



Kuriyama Hydraulic Connections™

ALFAGOMMA®

PIRANHAFLEX™
HYDRAULICS

Hydraulic Hose, Fittings & Accessories



Kuriyama of America, Inc.



EDITION 0516



Technical Information:

Assembly Length	304 - 305	Hydraulic Hose Sizing Nomogram.....	301
Cautionary Statement & Limited Warranty/ Kuriyama Warehouse Locations	Back Cover	Innovations	71
Conversion Charts.....	323 - 324	Installation & Assembly.....	306 - 307
Crimping Equipment.....	282 - 294	Main plants overview.....	11
Establishing a Legacy	8 - 9	Providing excellence and reliability	10
Fitting Identification / Thread Type	308 - 320	Pressure Drop International Chart	303
Hex Dimensions	325	Pressure Drop U.S. Chart	302
Hose Selection Guide.....	16 - 21	Safety Guide	298 - 300
		Torque Data	321 - 322

Hydraulic Hoses:

Alfabiotech 2000	NEW	57	Flexor 4SP	49
Alfabiotech 3000	NEW	58	Flexor 4SH.....	50
Alfabiotech 4000	NEW	59	Flexor 5.....	30
Alfabiotech 5000	NEW	60	Flexor 6.....	31
Alfabiotech 5000 Plus.....	NEW	61	Flexor T2TE.....	NEW 27
Alfabiotech 5000 - SUPERTUFF	NEW	63	Flexor TR1MT - MINETUFF.....	NEW 24
Alfabiotech 6000	NEW	62	Flexor TR2MT - MINETUFF	NEW 26
Alfabiotech 6000 - SUPERTUFF	NEW	64	Flexor TR4XF	NEW 29
Alfajet 210		77	MINETUFF	51
Alfajet 400		78	Piranhaflex™ 100R7 PF267/PF267NC	NEW 36
Alfatech 3000 MINETUFF		66	Piranhaflex™ 100R7 PF354/PF354NC	32
Alfatech 3000 SUPERTUFF		72	Piranhaflex™ 100R7 PF367/PF367NC	35
Alfatech 4000 MINETUFF		67	Piranhaflex™ 100R7 PFAN388NC	37
Alfatech 4000 SUPERTUFF		73	Piranhaflex™ 100R7 PFLT364.....	38
Alfatech 5000 MINETUFF		68	Piranhaflex™ 100R8 PF628/PF628NC	39
Alfatech 5000 SUPERTUFF		74	Piranhaflex™ 100R18 PF427/PF427NC	40
Alfatech 6000 MINETUFF		69	Piranhaflex™ PLUS 100R7 PFP354	33
Alfatech 6000 SUPERTUFF		75	Piranhaflex™ PLUS 100R7 PFP354NC.....	34
Alfatech Hoses		65	Piranhaflex™ Twin Line PF354TL/PF354NCTL PF628TL/PF628NCTL.....	41
Flexopak 2.....		52	Temp Tech.....	43
Flexopak 2 LT.....		53	Temp Tech 1SN.....	44
Flexor 12.....		47	Temp Tech 2SN	45
Flexor 13.....		48	Temp Tech R5.....	NEW 46
Flexor 1SN/R1AT.....		23	TR14TB Hydraulic Hose.....	NEW 76
Flexor 2SN/R2AT		25		
Flexor 3.....		28		

Hydraulic Fittings:

One-Piece AlfaCrimp C121 Fittings.....	80 - 91
One-Piece AlfaCrimp C122 Fittings.....	92 - 115
One-Piece AlfaCrimp C124 Fittings.....	152 - 178
One-Piece AlfaCrimp C126 Fittings.....	179 - 189
One-Piece AlfaCrimp C12A Fittings	NEW 116 - 151
Two-Piece Fittings – Interlock.....	194 - 195, 260 - 281
Two-Piece Fittings – Standard	191 - 194, 202 - 259

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Former Series x Current Series

Former Series	Current Series	Page
C12112410-XXXX	Q-XXXX-MOFS	90
C12112510-XXXX	Q-XXXX-MJIC	88
C12112810-XXXX	Q-XXXX-MNPT	86
C12112811-XXXX	Q-XXXX-MNPS	86
C12113010-XXXX	Q-XXXX-MORB	87
C12122411-XXXX	Q-XXXX-FOFS	90
C12122443-XXXXM	Q-XXXX-F045	91
C12122493-XXXXS	Q-XXXX-F09S	91
C12122541-XXXXM	Q-XXXX-FJ45	89
C12122591-XXXXS	Q-XXXX-FJ9S	89
C12126511-XXXX	Q-XXXX-FJDH	88
C12127311-XXXX	Q-XXXX-FPMS	87
C12210510-XXXX	C-XXXX-MBPP	110
C12210710-XXXX	C-XXXX-MBPT	109
C12211110-XXXX	C-XXXX-MMSL	112
C12211210-XXXX	C-XXXX-MMSH	112
C12212410-XXXX	C-XXXX-MOFS	104
C12212510-XXXX	C-XXXX-MJIC	100
C12212810-XXXX	C-XXXX-MNPT	98
C12212811-XXXX	C-XXXX-MNPS	98
C12212881-XXXX	B-XXXX-MPS9	123
C12213010-XXXX	C-XXXX-MORB	100
C12213B10-XXXX	C-XXXX-BTTF	108
C12220813-XXXX	C-XXXX-FBPO	110
C12220843-XXXX	C-XXXX-FB04	111
C12220893-XXXX	C-XXXX-FB09	111
C12221513-XXXX	C-XXXX-FMOL	113
C12221543-XXXX	C-XXXX-FM4L	114
C12221593-XXXX	C-XXXX-FM9L	115
C12221613-XXXX	C-XXXX-FM0H	113
C12221643-XXXX	C-XXXX-FM4H	114
C12221693-XXXX	C-XXXX-FM9H	115
C12222411-XXXX	C-XXXX-FOFS	105
C12222443-XXXXM	C-XXXX-F045	105
C12222493-XXXXL	C-XXXX-F09L	106
C12222493-XXXXM	C-XXXX-F09M	106
C12222493-XXXXS	C-XXXX-F09S	106
C12222511-XXXX	C-XXXX-FJSH	101
C12222541-XXXXM	C-XXXX-FJ45	102
C12222591-XXXXL	C-XXXX-FJ9L	102
C12222591-XXXXM	C-XXXX-FJ9M	102
C12222591-XXXXS	C-XXXX-FJ9S	102
C12222810-XXXX	C-XXXX-FNPR	99
C12226511-XXXX	C-XXXX-FJDH	101
C12226611-XXXX	C-XXXX-FSAE	104
C12227311-XXXX	C-XXXX-FPMS	99
C12229710-XXXX	C-XXXX-FGRT	108
C12243310-XXXX	C-XXXX-C61S	107
C12243340-XXXX	C-XXXX-C614	107
C12243390-XXXX	C-XXXX-C619	108
C122C5610-XXXX	C-XXXX-HMEN	109
C12410510-XXXX	D-XXXX-MBPP	171
C12410710-XXXX	D-XXXX-MBPT	170
C12411110-XXXX	D-XXXX-MMSL	174

Former Series	Current Series	Page
C12411210-XXXX	D-XXXX-MMSH	175
C12412410-XXXX	D-XXXX-MOFS	163
C12412510-XXXX	D-XXXX-MJIC	160
C12412810-XXXX	D-XXXX-MNPT	158
C12412811-1212	D-XXXX-MNPS	158
C12413010-XXXX	D-XXXX-MORB	159
C12420811-XXXX	D-XXXX-FBPO	171
C12420811-XXXX	D-XXXX-FBPO	172
C12420812-XXXX	D-XXXX-FBPO	172
C12420813-XXXX	D-XXXX-FBPO	171
C12420813-XXXX	D-XXXX-FBPO	172
C12420841-XXXX	D-XXXX-FB04	172
C12420842-XXXX	D-XXXX-FB04	172
C12420842-XXXX	D-XXXX-FB04	173
C12420843-XXXX	D-XXXX-FB04	172
C12420843-XXXX	D-XXXX-FB04	173
C12420891-XXXX	D-XXXX-FB09	173
C12420892-XXXX	D-XXXX-FB09	173
C12420892-XXXX	D-XXXX-FB09	174
C12420893-XXXX	D-XXXX-FB09	173
C12420893-XXXX	D-XXXX-FB09	174
C12421513-XXXX	D-XXXX-FMOL	175
C12421543-XXXX	D-XXXX-FM4L	176
C12421593-XXXX	D-XXXX-FM9L	177
C12421613-XXXX	D-XXXX-FM0H	176
C12421643-XXXX	D-XXXX-FM4H	177
C12421693-XXXX	D-XXXX-FM9H	178
C12422411-XXXX	D-XXXX-FOFS	164
C12422441-XXXXM	D-XXXX-F045	164
C12422443-XXXXM	D-XXXX-F045	164
C12422491-XXXXL	D-XXXX-F09L	165
C12422491-XXXXM	D-XXXX-F09M	165
C12422491-XXXXS	D-XXXX-F09S	165
C12422493-XXXXL	D-XXXX-F09L	165
C12422493-XXXXM	D-XXXX-F09M	165
C12422493-XXXXS	D-XXXX-F09S	165
C12422541-XXXXM	D-XXXX-FJ45	161
C12422542-XXXXM	D-XXXX-FJ45	161
C12422591-XXXXL	D-XXXX-FJ9L	162
C12422591-XXXXM	D-XXXX-FJ9M	162
C12422591-XXXXS	D-XXXX-FJ9S	162
C12422592-XXXXM	D-XXXX-FJ9M	162
C12422810-XXXX	D-XXXX-FNPR	159
C12426511-XXXX	D-XXXX-FJDH	160
C12426511-XXXX	D-XXXX-FJDH	161
C12426512-XXXX	D-XXXX-FJDH	161
C12426611-XXXX	D-XXXX-FSAE	163
C12443310-XXXX	D-XXXX-C61S	166
C12443320-XXXX	D-XXXX-C612	166
C12443330-XXXX	D-XXXX-C613	167
C12443340-XXXX	D-XXXX-C614	167
C12443360-XXXX	D-XXXX-C616	168
C12443390-XXXX	D-XXXX-C619	168
C12443610-XXXX	D-XXXX-C62S	169

Former Series	Current Series	Page
C12443640-XXXX	D-XXXX-C624	169
C12443690-XXXX	D-XXXX-C629	170
C12612810-XXXX	F-XXXX-MNPT	184
C12622411-XXXX	F-XXXX-FOFS	186
C12622441-XXXX	F-XXXX-F045	186
C12622491-XXXX	F-XXXX-F09M	186
C12622542-XXXX	F-XXXX-FJ45	185
C12622592-XXXX	F-XXXX-FJ9M	185
C12626512-XXXX	F-XXXX-FJDH	184
C12643610-XXXX	F-XXXX-C62S	187
C12643640-XXXX	F-XXXX-C624	187
C12643690-XXXX	F-XXXX-C629	188
C12643910-XXXX	F-XXXX-CFLS	188
C12643940-XXXX	F-XXXX-CFL4	189
C12643990-XXXX	F-XXXX-CFL9	189
C12A10510-XXXX	B-XXXX-MBPP	142
C12A10710-XXXX	B-XXXX-MBPT	142
C12A11110-XXXX	B-XXXX-MMSL	146
C12A11210-XXXX	B-XXXX-MMSH	148
C12A12410-XXXX	B-XXXX-MOFS	134
C12A12510-XXXX	B-XXXX-MJIC	127
C12A12810-XXXX	B-XXXX-MNPT	122
C12A12811-XXXX	B-XXXX-MNPS	123
C12A12881-XXXX	B-XXXX-MPS9	123
C12A13010-XXXX	B-XXXX-MORB	125
C12A13011-XXXX	B-XXXX-MOBS	125
C12A13081-XXXX	B-XXXX-MBS9	126
C12A13B10-XXXX	B-XXXX-BTTF	126
C12A20581-XXXX	B-XXXX-FBC9	144
C12A20611-XXXX	B-XXXX-FBFS	143
C12A20613-XXXX	B-XXXX-FBFS	143
C12A20811-XXXX	B-XXXX-FBPO	143
C12A20813-XXXX	B-XXXX-FBPO	143
C12A20841-XXXX	B-XXXX-FB04	144
C12A20843-XXXX	B-XXXX-FB04	144
C12A20891-XXXX	B-XXXX-FB09	145
C12A20893-XXXX	B-XXXX-FB09	145
C12A21511-XXXX	B-XXXX-FMOL	146
C12A21512-XXXX	B-XXXX-FMOL	146
C12A21513-XXXX	B-XXXX-FMOL	146
C12A21542-XXXX	B-XXXX-FM4L	147
C12A21543-XXXX	B-XXXX-FM4L	147
C12A21591-XXXX	B-XXXX-FM9L	147
C12A21592-XXXX	B-XXXX-FM9L	147
C12A21593-XXXX	B-XXXX-FM9L	147
C12A21613-XXXX	B-XXXX-FM0H	148
C12A21643-XXXX	B-XXXX-FM4H	149
C12A21692-XXXX	B-XXXX-FM9H	149
C12A21693-XXXX	B-XXXX-FM9H	149
C12A22411-XXXX	B-XXXX-FOFS	135
C12A22441-XXXXM	B-XXXX-F045	136
C12A22443-XXXXM	B-XXXX-F045	136
C12A22491-XXXXL	B-XXXX-F09L	138
C12A22491-XXXXM	B-XXXX-F09M	138

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Hose & Fittings Series Index



**Kuriyama Hydraulic
Connections™**

Former Series x Current Series

Former Series	Current Series	Page
C12A22491-XXXXS	B-XXXX-F09S	137
C12A22493-XXXXL	B-XXXX-F09L	138
C12A22493-XXXXM	B-XXXX-F09M	138
C12A22493-XXXXS	B-XXXX-F09S	137
C12A22511-XXXX	B-XXXX-FJSH	128
C12A22541-XXXXM	B-XXXX-FJ45	130
C12A22591-XXXXL	B-XXXX-FJ9L	133
C12A22591-XXXXM	B-XXXX-FJ9M	132
C12A22591-XXXXS	B-XXXX-FJ9S	131
C12A22810-XXXX	B-XXXX-FNPR	124
C12A2381Z-XXXX	B-XXXX-FJIS	133
C12A24011-XXXX	B-XXXX-FK0S	150
C12A26511-XXXX	B-XXXX-FJDH	129
C12A26611-XXXX	B-XXXX-FSAE	134
C12A27311-XXXX	B-XXXX-FPMS	124
C12A43310-XXXX	B-XXXX-C61S	139
C12A43340-XXXX	B-XXXX-C614	139
C12A43390-XXXX	B-XXXX-C619	140
C12A43610-XXXX	B-XXXX-C62S	140
C12A43640-XXXX	B-XXXX-C624	141
C12A43690-XXXX	B-XXXX-C629	141
C12A52010-XXXX	B-XXXX-MSPS	145
C12AC5610-XXXX	B-XXXX-HMEN	122
C12H12810-XXXX	H-XXX-MNPT	184
C12H1281Z-XXXX	H-XXXX-MAPI	184
C12H22542-XXXX	H-XXXX-FJ45	185
C12H22592-XXXX	H-XXXX-FJ9M	185
C12H26512-XXXX	H-XXXX-FJDH	184
C12H43610-XXXX	H-XXXX-C62S	187
C12H43640-XXXX	H-XXXX-C624	187
C12H43690-XXXX	H-XXXX-C629	188
C12R12810-XXXX	M-XXXX-MNPT	184
C12R1281Z-XXXX	M-XXXX-MAPI	184
C12R22542-XXXX	M-XXXX-FJ45	185
C12R22592-XXXX	M-XXXX-FJ9M	185
C12R26512-XXXX	M-XXXX-FJDH	184
C12R43610-XXXX	M-XXXX-C62S	187
C12R43640-XXXX	M-XXXX-C624	187
C12R43690-XXXX	M-XXXX-C629	188
H10V0210-XX	BBOLT-XX	241
H10V0810-XX	MBOLT-XX	251
H10W3320-XXXX	C61SF-XX	236
H10W3620-XXXX	C62SF-XX	237
H1100104-XX	AS1-XX	202
H1100204-XX	AS2-XX	202
H1100404-XX	AS4-XX	202
H1100SK1-XX	ASK-XX	203
H1200101-XX	AFQ-XX	210
H1200202-XX	AFB-XX	209
H1200203-XX	AF3-XX	209
H1200204-XX	AF4-XX	209
H1200AD1-XX	AF1-XX	208
H1200AD2-XX	AF2-XX	208
H1200TP0-XX	AFP-XX	210

Former Series	Current Series	Page
H1200TX2-XX	AFX-XX	211
H1210510-XXXX	A-XXXX-MBPP	239
H1210610-XXXX	A-XXXX-MBFS	240
H1210710-XXXX	A-XXXX-MBPT	240
H1211110-XXXX	A-XXXX-MMSL	246
H1211210-XXXX	A-XXXX-MMSH	248
H1211810-XXXX	A-XXXX-MMFR	257
H1212410-XXXX	A-XXXX-M0FS	227
H1212510-XXXX	A-XXXX-MJIC	220
H1212810-XXXX	A-XXXX-MNPT	215
H1212811-XXXX	A-XXXX-MNPS	216
H1212881-XXXX	A-XXXX-MPS9	216
H1213010-XXXX	A-XXXX-MORB	219
H1213011-XXXX	A-XXXX-M0BS	218
H1213081-XXXX	A-XXXX-MBS9	218
H1213B10-XXXX	A-XXXX-BTTF	237
H1220541-XXXX	A-XXXX-FBP4	243
H1220581-XXXX	A-XXXX-FBC9	244
H1220591-XXXX	A-XXXX-FBP9	244
H1220611-XXXX	A-XXXX-FBFS	245
H1220613-XXXX	A-XXXX-FBFS	245
H1220811-XXXX	A-XXXX-FBP0	242
H1220812-XXXX	A-XXXX-FBP0	242
H1220813-XXXX	A-XXXX-FBP0	242
H1220841-XXXX	A-XXXX-FBP4	243
H1220842-XXXX	A-XXXX-FBP4	243
H1220843-XXXX	A-XXXX-FBP4	243
H1220891-XXXX	A-XXXX-FB09	244
H1220892-XXXX	A-XXXX-FB09	245
H1220893-XXXX	A-XXXX-FB09	244
H1220893-XXXX	A-XXXX-FB09	245
H1221013-XXXX	A-XXXX-FM6S	250
H1221513-XXXX	A-XXXX-FMOL	247
H1221543-XXXX	A-XXXX-FM4L	247
H1221593-XXXX	A-XXXX-FM9L	248
H1221613-XXXX	A-XXXX-FMOH	249
H1221643-XXXX	A-XXXX-FM4H	249
H1221693-XXXX	A-XXXX-FM9H	250
H1221813-XXXX	A-XXXX-FMFS	257
H1222411-XXXX	A-XXXX-F0FS	227
H1222411-XXXX	A-XXXX-F0FS	228
H1222441-XXXXM	A-XXXX-F045	228
H1222443-XXXXM	A-XXXX-F045	228
H1222491-XXXXL	A-XXXX-F09L	231
H1222491-XXXXM	A-XXXX-F09M	230
H1222491-XXXXS	A-XXXX-F09S	229
H1222493-XXXXL	A-XXXX-F09L	231
H1222493-XXXXM	A-XXXX-F09M	230
H1222493-XXXXS	A-XXXX-F09S	229
H1222511-XXXX	A-XXXX-FJSH	221
H1222512-XXXX	A-XXXX-FJSH	221
H1222541-XXXX	A-XXXX-FJ45	223
H1222542-XXXX	A-XXXX-FJ45	223
H1222591-XXXXL	A-XXXX-FJ9L	226

Former Series	Current Series	Page
H1222591-XXXXM	A-XXXX-FJ9M	225
H1222591-XXXXS	A-XXXX-FJ9S	224
H1222592-XXXXM	A-XXXX-FJ9M	225
H1222810-XXXX	A-XXXX-FNPR	217
H1223812-XXXX	A-XXXX-FJIS	258
H122381Z-XXXX	A-XXXX-FJIS	258
H1224011-XXXX	A-XXXX-FK0S	258
H1224914-XXXX	A-XXXX-FPWS	259
H1226511-XXXX	A-XXXX-FJDH	222
H1226512-XXXX	A-XXXX-FJDH	222
H1226611-XXXX	A-XXXX-FSAE	223
H1227311-XXXX	A-XXXX-FPMS	217
H1229710-XXXX	A-XXXX-FGRT	237
H1230310-XXXX	A-XXXX-BBAN	241
H1230910-XXXX	A-XXXX-MBAN	251
H1243310-XXXX	A-XXXX-C61S	232
H1243320-XXXX	A-XXXX-C612	232
H1243330-XXXX	A-XXXX-C613	233
H1243340-XXXX	A-XXXX-C614	233
H1243360-XXXX	A-XXXX-C616	234
H1243390-XXXX	A-XXXX-C619	234
H1243610-XXXX	A-XXXX-C62S	235
H1243640-XXXX	A-XXXX-C624	235
H1243690-XXXX	A-XXXX-C629	236
H1244110-XXXX	A-XXXX-KFLS	258
H1244140-XXXX	A-XXXX-KF45	259
H1244190-XXXX	A-XXXX-KF90	259
H1252010-XXXX	A-XXXX-MSPS	252
H1252040-XXXX	A-XXXX-MSP4	253
H1252090-XXXX	A-XXXX-MSP9	254
H12C5610-XXXX	A-XXXX-HMEN	238
H1400200-XX	XF2-XX	264
H1400301-XX	XF1-XX	264
H1410510-XXXX	X-XXXX-MBPP	276
H1410710-XXXX	X-XXXX-MBPT	276
H1411210-XXXX	X-XXXX-MMSH	278
H1412510-XXXX	X-XXXX-MJIC	268
H1412810-XXXX	X-XXXX-MNPT	268
H1420811-XXXX	X-XXXX-FBP0	276
H1420842-XXXX	X-XXXX-FB04	277
H1420892-XXXX	X-XXXX-FB09	277
H1421613-XXXX	X-XXXX-FM0H	278
H1421643-XXXX	X-XXXX-FM4H	279
H1421693-XXXX	X-XXXX-FM9H	279
H1422411-XXXX	X-XXXX-F0FS	270
H1422441-XXXX	X-XXXX-F045	270
H1422491-XXXX	X-XXXX-F09M	271
H1422512-XXXX	X-XXXX-FJSH	269
H1422542-XXXX	X-XXXX-FJ45	269
H1422592-XXXX	X-XXXX-FJ9M	269
H1443310-XXXX	X-XXXX-C61S	271
H1443340-XXXX	X-XXXX-C614	272
H1443390-XXXX	X-XXXX-C619	272
H1443610-XXXX	X-XXXX-C62S	273

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HOSES
C121
C122
C12A
C124
C126
TWO PIECE FERULES
(STANDARD & INTERLOCK)
H12 STANDARD
INSERTS
H14 AND H1T
INTERLOCK INSERTS
CRIMPERS
TECHNICAL
INFORMATION



Former Series x Current Series

Former Series	Current Series	Page
H1443640-XXXX	X-XXXX-C624	273
H1443690-XXXX	X-XXXX-C629	274
H1443910-XXXX	X-XXXX-CFLS	274
H1443940-XXXX	X-XXXX-CFL4	275
H1443990-XXXX	X-XXXX-CFL9	275
H1K00170-XX	KS1-XX	203
H1T00600-XXXX	ZF1-XX	280
H1T43610-XXXX	Z-XXXX-C62S	280
H1T43640-XXXX	Z-XXXX-C624	280
H1T43690-XXXX	Z-XXXX-C629	281
H2200TP0-XX	AFT-XX	210
R1A-0004002100	MTN-XXXX-X	255
R1A-0004502100	MTN-XXXX-X	255
R1A-0010002000	MBS-XXXX	256
R1A-0010702000	MBS-XXX	256
	ABT2K	57
	ABT3K	58
	ABT4K	59
	ABT5K	60
	ABT5KST	63
	ABT6K	62
	ABT6KST	64

Former Series	Current Series	Page
	ABTP5K	61
	AT3KMT	66
	AT3KST	72
	AT4KMT	67
	AT4KST	73
	AT5KMT	68
	AT5KST	74
	AT6KMT	69
	AT6KST	75
	PF267/PF267NC	36
	PF354/PF354NC	32
	PF354NCTL-04-250R	41
	PF354TL-04-250R	41
	PF367/PF367NC	35
	PF427/PF427NC	40
	PF628/PF628NC	39
	PF628NCTL-04-250R	41
	PF628TL-04-250R	41
	PFAN388NC	37
	PFLT364	38
	PFP354	33
	PFP354NC	34

Former Series	Current Series	Page
	PFR-XX	211
	T1SNNTT	44
	T2SNNTT	45
	T2TE	27
	T4SH	50
	T4SP	49
	TAJ3BK	77
	TAJ5BK	78
	TF2LT	53
	TF2MT	52
	TR1MT	24
	TR1SN	23
	TR2MT	26
	TR2SN	25
	TR3	28
	TR4XF	29
	TR5	30
	TR5TT	46
	TR6	31
	TR12	47
	TR13	48
	TR14TB	76

Current Series x Former Series

Current Series	Former Series	Page
A-XXXX-BBAN	H1230310-XXXX	241
A-XXXX-BTTF	H1213B10-XXXX	237
A-XXXX-C612	H1243320-XXXX	232
A-XXXX-C613	H1243330-XXXX	233
A-XXXX-C614	H1243340-XXXX	233
A-XXXX-C616	H1243360-XXXX	234
A-XXXX-C619	H1243390-XXXX	234
A-XXXX-C61S	H1243310-XXXX	232
A-XXXX-C624	H1243640-XXXX	235
A-XXXX-C629	H1243690-XXXX	236
A-XXXX-C62S	H1243610-XXXX	235
A-XXXX-FB04	H1220841-XXXX	243
A-XXXX-FB04	H1220842-XXXX	243
A-XXXX-FB04	H1220843-XXXX	243
A-XXXX-FB04	H1220581-XXXX	244
A-XXXX-FBFS	H1220611-XXXX	245
A-XXXX-FBFS	H1220613-XXXX	245
A-XXXX-FBP9	H1220591-XXXX	244
A-XXXX-FB09	H1220891-XXXX	244
A-XXXX-FB09	H1220892-XXXX	245
A-XXXX-FB09	H1220893-XXXX	244
A-XXXX-FB09	H1220893-XXXX	245
A-XXXX-FBP4	H1220541-XXXX	243
A-XXXX-FBP0	H1220811-XXXX	242
A-XXXX-FBP0	H1220812-XXXX	242
A-XXXX-FBP0	H1220813-XXXX	242
A-XXXX-FGRT	H1229710-XXXX	237

Current Series	Former Series	Page
A-XXXX-FJ45	H1222541-XXXX	223
A-XXXX-FJ45	H1222542-XXXX	223
A-XXXX-FJ9L	H1222591-XXXXL	226
A-XXXX-FJ9M	H1222591-XXXXM	225
A-XXXX-FJ9M	H1222592-XXXXM	225
A-XXXX-FJ9S	H1222591-XXXXS	224
A-XXXX-FJDH	H1226511-XXXX	222
A-XXXX-FJDH	H1226512-XXXX	222
A-XXXX-FJIS	H1223812-XXXX	258
A-XXXX-FJIS	H122381Z-XXXX	258
A-XXXX-FJSH	H1222511-XXXX	221
A-XXXX-FJSH	H1222512-XXXX	221
A-XXXX-FK0S	H1224011-XXXX	258
A-XXXX-FM4H	H1221643-XXXX	249
A-XXXX-FM4L	H1221543-XXXX	247
A-XXXX-FM6S	H1221013-XXXX	250
A-XXXX-FM9H	H1221693-XXXX	250
A-XXXX-FM9L	H1221593-XXXX	248
A-XXXX-FMFS	H1221813-XXXX	257
A-XXXX-FM0H	H1221613-XXXX	249
A-XXXX-FM0L	H1221513-XXXX	247
A-XXXX-FNPR	H1222810-XXXX	217
A-XXXX-F045	H1222441-XXXXM	228
A-XXXX-F045	H1222443-XXXXM	228
A-XXXX-F09L	H1222491-XXXXL	231
A-XXXX-F09L	H1222493-XXXXL	231
A-XXXX-F09M	H1222491-XXXXM	230

Current Series	Former Series	Page
A-XXXX-F09M	H1222493-XXXXM	230
A-XXXX-F09S	H1222491-XXXXS	229
A-XXXX-F09S	H1222493-XXXXS	229
A-XXXX-F0FS	H1222411-XXXX	227
A-XXXX-F0FS	H1222411-XXXX	228
A-XXXX-FPMS	H1227311-XXXX	217
A-XXXX-FPWS	H1224914-XXXX	259
A-XXXX-FSAE	H1226611-XXXX	223
A-XXXX-HMEN	H12C5610-XXXX	238
A-XXXX-KF45	H1244140-XXXX	259
A-XXXX-KF90	H1244190-XXXX	259
A-XXXX-KFLS	H1244110-XXXX	258
A-XXXX-MBAN	H1230910-XXXX	251
A-XXXX-MBFS	H1210610-XXXX	240
A-XXXX-MBPP	H1210510-XXXX	239
A-XXXX-MBPT	H1210710-XXXX	240
A-XXXX-MBS9	H1213081-XXXX	218
A-XXXX-MJIC	H1212510-XXXX	220
A-XXXX-MMFR	H1211810-XXXX	257
A-XXXX-MMSH	H1211210-0414	248
A-XXXX-MMSL	H1211110-XXXX	246
A-XXXX-MNPS	H1212811-XXXX	216
A-XXXX-MNPT	H1212810-XXXX	215
A-XXXX-M0BS	H1213011-XXXX	218
A-XXXX-M0FS	H1212410-XXXX	227
A-XXXX-MORB	H1213010-XXXX	219
A-XXXX-MPS9	H1212881-XXXX	216

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



Hose & Fittings Series Index



Kuriyama Hydraulic Connections™

Current Series x Former Series

Current Series	Former Series	Page
A-XXXX-MSP4	H1252040-XXXX	253
A-XXXX-MSP9	H1252090-XXXX	254
A-XXXX-MSPS	H1252010-XXXX	252
ABT2K		57
ABT3K		58
ABT4K		59
ABT5K		60
ABT5KST		63
ABT6K		62
ABT6KST		64
ABTP5K		61
AF1-XX	H1200AD1-XX	208
AF2-XX	H1200AD2-XX	208
AF3-XX	H1200203-XX	209
AF4-XX	H1200204-XX	209
AFB-XX	H1200202-XX	209
AFP-XX	H1200TP0-XX	210
AFQ-XX	H1200101-XX	210
AFT-XX	H2200TP0-XX	210
AFX-XX	H1200TX2-XX	211
AS1-XX	H1100104-XX	202
AS2-XX	H1100204-XX	202
AS4-XX	H1100404-XX	202
ASK-XX	H1100SK1-XX	203
AT3KMT		66
AT3KST		72
AT4KMT		67
AT4KST		73
AT5KMT		68
AT5KST		74
AT6KMT		69
AT6KST		75
B-XXXX-BTTF	C12A13B10-XXXX	126
B-XXXX-C614	C12A43340-XXXX	139
B-XXXX-C619	C12A43390-XXXX	140
B-XXXX-C61S	C12A43310-XXXX	139
B-XXXX-C624	C12A43640-XXXX	141
B-XXXX-C629	C12A43690-XXXX	141
B-XXXX-C62S	C12A43610-XXXX	140
B-XXXX-FBC9	C12A20581-XXXX	144
B-XXXX-FBFS	C12A20611-XXXX	143
B-XXXX-FBFS	C12A20613-XXXX	143
B-XXXX-FB04	C12A20841-XXXX	144
B-XXXX-FB04	C12A20843-XXXX	144
B-XXXX-FB09	C12A20891-XXXX	145
B-XXXX-FB09	C12A20893-XXXX	145
B-XXXX-FBPO	C12A20811-XXXX	143
B-XXXX-FBPO	C12A20813-XXXX	143
B-XXXX-FJ45	C12A22541-XXXXM	130
B-XXXX-FJ9L	C12A22591-XXXXL	133
B-XXXX-FJ9M	C12A22591-XXXXM	132
B-XXXX-FJ9S	C12A22591-XXXXS	131
B-XXXX-FJDH	C12A26511-XXXX	129

Current Series	Former Series	Page
B-XXXX-FJIS	C12A2381Z-XXXX	133
B-XXXX-FJSH	C12A22511-XXXX	128
B-XXXX-FK0S	C12A24011-XXXX	150
B-XXXX-FM4H	C12A21643-XXXX	149
B-XXXX-FM4L	C12A21542-XXXX	147
B-XXXX-FM4L	C12A21543-XXXX	147
B-XXXX-FM9H	C12A21692-XXXX	149
B-XXXX-FM9H	C12A21693-XXXX	149
B-XXXX-FM9L	C12A21591-XXXX	147
B-XXXX-FM9L	C12A21592-XXXX	147
B-XXXX-FM9L	C12A21593-XXXX	147
B-XXXX-FMOH	C12A21613-XXXX	148
B-XXXX-FMOL	C12A21511-XXXX	146
B-XXXX-FMOL	C12A21512-XXXX	146
B-XXXX-FMOL	C12A21513-XXXX	146
B-XXXX-FNPR	C12A22810-XXXX	124
B-XXXX-F045	C12A22441-XXXXM	136
B-XXXX-F045	C12A22443-XXXXM	136
B-XXXX-F09L	C12A22491-XXXXL	138
B-XXXX-F09L	C12A22493-XXXXL	138
B-XXXX-F09M	C12A22491-XXXXM	138
B-XXXX-F09M	C12A22493-XXXXM	138
B-XXXX-F09S	C12A22491-XXXXS	137
B-XXXX-F09S	C12A22493-XXXXS	137
B-XXXX-F0FS	C12A22411-XXXX	135
B-XXXX-FPMS	C12A27311-XXXX	124
B-XXXX-FSAE	C12A26611-XXXX	134
B-XXXX-HMEN	C12AC5610-XXXX	122
B-XXXX-MBPP	C12A10510-XXXX	142
B-XXXX-MBPT	C12A10710-XXXX	142
B-XXXX-MBS9	C12A13081-XXXX	126
B-XXXX-MJIC	C12A12510-XXXX	127
B-XXXX-MMSH	C12A11210-XXXX	148
B-XXXX-MMSL	C12A11110-XXXX	146
B-XXXX-MNPS	C12A12811-XXXX	123
B-XXXX-MNPT	C12A12810-XXXX	122
B-XXXX-MOBS	C12A13011-XXXX	125
B-XXXX-MOFS	C12A12410-XXXX	134
B-XXXX-MORB	C12A13010-XXXX	125
B-XXXX-MPS9	C12A12881-XXXX	123
B-XXXX-MPS9	C12A12881-XXXX	123
B-XXXX-MSPS	C12A52010-XXXX	145
BBOLT-XX	H10V0210-XX	241
C-XXXX-BTTF	C12213B10-XXXX	108
C-XXXX-C614	C12243340-XXXX	107
C-XXXX-C619	C12243390-XXXX	108
C-XXXX-C61S	C12243310-XXXX	107
C-XXXX-FB04	C12220843-XXXX	111
C-XXXX-FB09	C12220893-XXXX	111
C-XXXX-FBPO	C12220813-XXXX	110
C-XXXX-FGRT	C12229710-XXXX	108
C-XXXX-FJ45	C12222541-XXXXM	102
C-XXXX-FJ9L	C12222591-XXXXL	102

Current Series	Former Series	Page
C-XXXX-FJ9M	C12222591-XXXXM	102
C-XXXX-FJ9S	C12222591-XXXXS	102
C-XXXX-FJDH	C12226511-XXXX	101
C-XXXX-FJSH	C12222511-XXXX	101
C-XXXX-FM4H	C12221643-XXXX	114
C-XXXX-FM4L	C12221543-XXXX	114
C-XXXX-FM9H	C12221693-XXXX	115
C-XXXX-FM9L	C12221593-XXXX	115
C-XXXX-FMOH	C12221613-XXXX	113
C-XXXX-FMOL	C12221513-XXXX	113
C-XXXX-FNPR	C12222810-XXXX	99
C-XXXX-F045	C12222443-XXXXM	105
C-XXXX-F09L	C12222493-XXXXL	106
C-XXXX-F09M	C12222493-XXXXM	106
C-XXXX-F09S	C12222493-XXXXS	106
C-XXXX-F0FS	C12222411-XXXX	105
C-XXXX-FPMS	C12227311-XXXX	99
C-XXXX-FSAE	C12226611-XXXX	104
C-XXXX-HMEN	C122C5610-XXXX	109
C-XXXX-MBPP	C12210510-XXXX	110
C-XXXX-MBPT	C12210710-XXXX	109
C-XXXX-MJIC	C12212510-XXXX	100
C-XXXX-MMSH	C12211210-XXXX	112
C-XXXX-MMSL	C12211110-XXXX	112
C-XXXX-MNPS	C12212811-XXXX	98
C-XXXX-MNPT	C12212810-XXXX	98
C-XXXX-MOFS	C12212410-XXXX	104
C-XXXX-MORB	C12213010-XXXX	100
C61SF-XX	H10W3320-XXXX	236
C62SF-XX	H10W3620-XXXX	237
D-XXXX-C612	C12443320-XXXX	166
D-XXXX-C613	C12443330-XXXX	167
D-XXXX-C614	C12443340-XXXX	167
D-XXXX-C616	C12443360-XXXX	168
D-XXXX-C619	C12443390-XXXX	168
D-XXXX-C61S	C12443310-0808	166
D-XXXX-C624	C12443640-XXXX	169
D-XXXX-C629	C12443690-XXXX	170
D-XXXX-C62S	C12443610-XXXX	169
D-XXXX-FB04	C12420841-XXXX	172
D-XXXX-FB04	C12420842-XXXX	172
D-XXXX-FB04	C12420842-XXXX	173
D-XXXX-FB04	C12420843-XXXX	172
D-XXXX-FB04	C12420843-XXXX	173
D-XXXX-FB09	C12420891-XXXX	173
D-XXXX-FB09	C12420892-XXXX	173
D-XXXX-FB09	C12420892-XXXX	174
D-XXXX-FB09	C12420893-XXXX	173
D-XXXX-FB09	C12420893-XXXX	174
D-XXXX-FBPO	C12420811-XXXX	171
D-XXXX-FBPO	C12420811-XXXX	172
D-XXXX-FBPO	C12420812-XXXX	172
D-XXXX-FBPO	C12420813-XXXX	171

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.





Current Series x Former Series

Current Series	Former Series	Page
D-XXXX-FBPO	C12420813-XXXX	172
D-XXXX-FJ45	C12422541-XXXXM	161
D-XXXX-FJ45	C12422542-XXXXM	161
D-XXXX-FJ9L	C12422591-XXXXL	162
D-XXXX-FJ9M	C12422591-XXXXM	162
D-XXXX-FJ9M	C12422592-XXXXM	162
D-XXXX-FJ9S	C12422591-XXXXS	162
D-XXXX-FJDH	C12426511-XXXX	160
D-XXXX-FJDH	C12426511-XXXX	161
D-XXXX-FJDH	C12426512-XXXX	161
D-XXXX-FM4H	C12421643-XXXX	177
D-XXXX-FM4L	C12421543-XXXX	176
D-XXXX-FM9H	C12421693-XXXX	178
D-XXXX-FM9L	C12421593-XXXX	177
D-XXXX-FMOH	C12421613-XXXX	176
D-XXXX-FMOL	C12421513-XXXX	175
D-XXXX-FNPR	C12422810-XXXX	159
D-XXXX-F045	C12422441-XXXXM	164
D-XXXX-F045	C12422443-XXXXM	164
D-XXXX-F09L	C12422491-XXXXL	165
D-XXXX-F09L	C12422493-XXXXL	165
D-XXXX-F09M	C12422491-XXXXM	165
D-XXXX-F09M	C12422493-XXXXM	165
D-XXXX-F09S	C12422491-XXXXS	165
D-XXXX-F09S	C12422493-XXXXS	165
D-XXXX-F0FS	C12422411-XXXX	164
D-XXXX-FSAE	C12426611-XXXX	163
D-XXXX-MBPP	C12410510-XXXX	171
D-XXXX-MBPT	C12410710-XXXX	170
D-XXXX-MJIC	C12412510-XXXX	160
D-XXXX-MMSH	C12411210-XXXX	175
D-XXXX-MMSL	C12411110-XXXX	174
D-XXXX-MNPS	C12412811-XXXX	158
D-XXXX-MNPT	C12412810-XXXX	158
D-XXXX-MOFS	C12412410-XXXX	163
D-XXXX-MORB	C12413010-XXXX	159
F-XXXX-C624	C12643640-XXXX	187
F-XXXX-C629	C12643690-XXXX	188
F-XXXX-C62S	C12643610-XXXX	187
F-XXXX-CFLS	C12643910-XXXX	188
F-XXXX-CFL4	C12643940-XXXX	189
F-XXXX-CFL9	C12643990-XXXX	189
F-XXXX-FJ45	C12622542-XXXX	185
F-XXXX-FJ9M	C12622592-XXXX	185
F-XXXX-FJDH	C12626512-XXXX	184
F-XXXX-F045	C12622441-XXXX	186
F-XXXX-F09M	C12622491-XXXX	186
F-XXXX-F0FS	C12622411-XXXX	186
F-XXXX-MNPT	C12612810-XXXX	184
H-XXXX-C624	C12H43640-XXXX	187
H-XXXX-C629	C12H43690-XXXX	188
H-XXXX-C62S	C12H43610-XXXX	187
H-XXXX-FJ45	C12H22542-XXXX	185

Current Series	Former Series	Page
H-XXXX-FJ9M	C12H22592-XXXX	185
H-XXXX-FJDH	C12H26512-XXXX	184
H-XXXX-MAPI	C12H1281Z-XXXX	184
H-XXXX-MNPT	C12H12810-XXXX	184
KS1-XX	H1K00170-XX	203
M-XXXX-C624	C12R43640-XXXX	187
M-XXXX-C629	C12R43690-XXXX	188
M-XXXX-C62S	C12R43610-XXXX	187
M-XXXX-FJ45	C12R22542-XXXX	185
M-XXXX-FJ9M	C12R22592-XXXX	185
M-XXXX-FJDH	C12R26512-XXXX	184
M-XXXX-MAPI	C12R1281Z-XXXX	184
M-XXXX-MNPT	C12R12810-XXXX	184
MBOLT-XX	H10V0810-XX	251
MBS-XXX	R1A-0010702000	256
MBS-XXXX	R1A-0010002000	256
MTN-XXXX-X	R1A-0004002100	255
MTN-XXXX-X	R1A-0004502100	255
PF267/PF267NC		36
PF354/PF354NC		32
PF354NCTL-04-250R		41
PF354TL-04-250R		41
PF367/PF367NC		35
PF427/PF427NC		40
PF628/PF628NC		39
PF628NCTL-04-250R		41
PF628TL-04-250R		41
PFAN388NC		37
PFLT364		38
PPF354		33
PPF354NC		34
PFR-XX		211
Q-XXXX-FJ45	C12122541-XXXXM	89
Q-XXXX-FJ9S	C12122591-XXXXS	89
Q-XXXX-FJDH	C12126511-XXXX	88
Q-XXXX-F045	C12122443-XXXXM	91
Q-XXXX-F09S	C12122493-XXXXS	91
Q-XXXX-F0FS	C12122411-XXXX	90
Q-XXXX-FPMS	C12127311-XXXX	87
Q-XXXX-MJIC	C12112510-XXXX	88
Q-XXXX-MNPS	C12112811-XXXX	86
Q-XXXX-MNPT	C12112810-XXXX	86
Q-XXXX-MOFS	C12112410-XXXX	90
Q-XXXX-MORB	C12113010-XXXX	87
T1SNTT		44
T2SNTT		45
T2TE		27
T4SH		50
T4SP		49
TAJ3BK		77
TAJ5BK		78
TF2LT		53
TF2MT		52

Current Series	Former Series	Page
TR12		47
TR13		48
TR14TB		76
TR1MT		24
TR1SN		23
TR2MT		26
TR2SN		25
TR3		28
TR4XF		29
TR5		30
TR5TT		46
TR6		31
X-XXXX-C614	H1443340-XXXX	272
X-XXXX-C619	H1443390-XXXX	272
X-XXXX-C61S	H1443310-XXXX	271
X-XXXX-C624	H1443640-XXXX	273
X-XXXX-C629	H1443690-XXXX	274
X-XXXX-C62S	H1443610-XXXX	273
X-XXXX-CFL4	H1443940-XXXX	275
X-XXXX-CFL9	H1443990-XXXX	275
X-XXXX-CFLS	H1443910-XXXX	274
X-XXXX-FB04	H1420842-XXXX	277
X-XXXX-FB09	H1420892-XXXX	277
X-XXXX-FBPO	H1420811-XXXX	276
X-XXXX-FJ45	H1422542-XXXX	269
X-XXXX-FJ9M	H1422592-XXXX	269
X-XXXX-FJSH	H1422512-XXXX	269
X-XXXX-FM4H	H1421643-XXXX	279
X-XXXX-FM9H	H1421693-XXXX	279
X-XXXX-FMOH	H1421613-XXXX	278
X-XXXX-F045	H1422441-XXXX	270
X-XXXX-F09M	H1422491-XXXX	271
X-XXXX-F0FS	H1422411-XXXX	270
X-XXXX-MBPP	H1410510-XXXX	276
X-XXXX-MBPT	H1410710-XXXX	276
X-XXXX-MJIC	H1412510-XXXX	268
X-XXXX-MMSH	H1411210-XXXX	278
X-XXXX-MNPT	H1412810-XXXX	268
XF1-XX	H1400301-XX	264
XF2-XX	H1400200-XX	264
Z-XXXX-C624	H1T43640-XXXX	280
Z-XXXX-C629	H1T43690-XXXX	281
Z-XXXX-C62S	H1T43610-XXXX	280
ZF1-XX	H1T00600-XXXX	280

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Establishing a Legacy



HOSES

C121

C122

C12A

C124

C126

TWO PIECE FERRULES
(STANDARD & INTERLOCK)

H12 STANDARD
INSERTS

H14 AND H1T
INTERLOCK INSERTS

CRIMPERS

TECHNICAL
INFORMATION

DESIGN

Throughout the world, the name ALFAGOMMA has become synonymous with quality, a reputation based on first class products, a commitment to research and development and ongoing capital investment.

ALFAGOMMA's development and product engineering staff continues to provide fluid conveying product innovations that assure better performance and cost savings for customers.

ALFAGOMMA hose and couplings are designed to work together as a system for problem free performance, no matter what machine you operate. The performance of all ALFAGOMMA products exceeds SAE, DIN, and JIS requirements and some hoses meet the MSHA and LOBA flame resistance requirement, as well.

LEADERSHIP IN HYDRAULIC HOSE AND COUPLING COMPONENTS

ALFAGOMMA has become a world-leading manufacturer of fluid power and fluid system components. A positive attitude toward the demands from new equipment, using the latest technology, has allowed ALFAGOMMA to introduce many outstanding new hydraulic hose types. These hoses have found acceptance in a wide range of industries. Some examples are:

Mining	Earthmoving	Molding
Logging	Agriculture	Drilling
Petroleum	Waste/Refuse	Crane
Railroad	Manufacturing	
Construction	Pulp and Plywood Mills	

OUR COMMITMENT

By remaining alert to customer's needs, ALFAGOMMA is constantly engineering new products for tomorrow's markets as well as modifying them for even higher performances. ALFAGOMMA's commitment to innovation and service makes the company's products known throughout the world for quality, reliability and leadership. When you need quality hose and couplings, use the best available. Now you can count on ALFAGOMMA for all your needs.

TESTING

ALFAGOMMA's laboratories are fully equipped to carry out tests according to international standards like SAE, DIN and JIS. New products are also subjected to laboratory simulation of actual service prior to being released on the market.

WORLD CLASS QUALITY

ALFAGOMMA is working to comply with internationally recognized quality programs requiring stringent standards. Many of our customers are demanding ISO qualification or its equivalent as a prerequisite for purchasing. This standard is an assurance of consistent quality. For ALFAGOMMA this is just the start of "doing it right from the beginning".

IMPORTANT NOTE FOR USERS

Hose assemblies require caution in use not only to ensure that they provide long service life but also to guard against potentially dangerous failure. Serious injury, death and destruction of property can result from the rupture or blowing-apart of a hydraulic hose assembly that is damaged, worn out, badly assembled or installed incorrectly.

Users should follow good maintenance practices. Avoid expensive downtime by establishing a program of inspection, testing and replacement of hose assemblies before failure occurs; taking into account such factors as severity of application, frequency of equipment use, and past performance of hose assemblies. Document your maintenance, inspections and testing.

Only properly trained persons should inspect, test or service hose assemblies and this training should be updated regularly.

Users should carefully observe the precautions listed below (under "Be aware that . . .") and they should also closely follow our suggestions for the proper selection of hose and couplings. In addition, care should be taken not to exceed the minimum bend radius listed for each hose size and type. Maximum operating pressure should not exceed the pressures listed. Instructions for assembling fittings to different hoses should be followed carefully to ensure the safe performance of the complete assembly.

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IMPORTANT NOTE FOR USERS (Continued)

By following the recommendations on hose assembly routing and installation, improved safety and longer service life of any hose installation will result.

Hydraulic fluid under pressure can be potentially dangerous! An explosive burst or stream of escaping fluid can cause damage to equipment as well as serious injury to persons nearby.

Be aware that . . .

1. Highly pressurized fluid escaping from a small pinhole can be almost invisible, and yet exert extreme force capable of penetrating the skin and other body tissues, causing possible severe injury.
2. Hot fluids or chemicals can cause severe burns. Pressurized fluids, if released uncontrolled, can exert a tremendous explosive force.
3. All rubber hydraulic hoses listed in this catalog are electrically conductive.
4. Some hydraulic fluids are highly flammable.

and . . .

1. Always position a shield between you and any pressurized hydraulic lines when working next to them, or, better yet, release the pressure in the lines.
2. Wear safety glasses.
3. Do not use your hands to check for leaks. Instead, use a piece of cardboard. Do not touch a pressurized hydraulic hose assembly with any part of your body, if fluid punctures the skin, even if no pain is felt, a serious emergency exists. Obtain medical assistance immediately. Failure to do so can result in loss of the injured body part or death.
4. Stay out of hazardous areas while testing hose assemblies under pressure. Use proper safety protection.
5. If an injury or reaction occurs, get medical attention immediately.
6. Use only non-conductive thermoplastic hoses where electrical conductivity is not desired, for example for use with equipment working near electrical power lines.

ALFAGOMMA hose and fittings are designed, engineered and tested to be used together in an assembly.

The use of ALFAGOMMA fittings on other manufacturer's hose or the use of ALFAGOMMA hose with other manufacturer's fittings may result in the production of unreliable or unsafe assemblies. It is neither recommended nor authorized by ALFAGOMMA.

ALFAGOMMA recommends only those hose and coupling combinations specified in the ALFAGOMMA Hydraulic Products Catalogs.

ALFAGOMMA disclaims any liability for any hose assemblies that have not been produced in conformance with ALFAGOMMA assembly recommendations and current crimp data charts.

Extensive impulse testing has been performed by ALFAGOMMA to verify the recommendations contained in this catalogue. A simple burst or pressure test cannot determine a hose and coupling combination.

Any claim for defects must be made in writing on the appropriate ISO9000 complaint form within 8 days from receipt of the product. ALFAGOMMA will have a reasonable opportunity thereafter to examine and investigate the alleged defect.

The customer's exclusive remedy with respect to any claim of any kind whatsoever shall be refund of the purchase price or replacement of the product at the option of ALFAGOMMA and in no event shall ALFAGOMMA be liable for any incidental or consequential damages whatsoever.

Providing excellence and reliability



ALFAGOMMA

Developing cutting-edge technology and innovative solutions. Supplying top quality products worldwide. These are the pillars on which ALFAGOMMA's success has been built since 1956.

Today, ALFAGOMMA plays a leading role in the industrial and hydraulic rubber hoses segment, with 16 plants, 79 subsidiaries and assembly plants and a worldwide presence spread across 21 countries.

The Group has been providing top quality products for 60 years and it has always been known for its excellent technical department: a strong commitment to quality and control design that is reflected in the Group's state-of-the-art product portfolio, which also include adapters and swivel connectors.



MANUFACTURING PLANTS

16

IN 8 COUNTRIES

ITALY – FINLAND
GERMANY – UK
USA – BRAZIL
CHINA – MALAYSIA



SUBSIDIARIES AND ASSEMBLY PLANTS

79

IN 21 COUNTRIES
AND
5 CONTINENTS



QUALITY CERTIFICATION

ISO

ISO 9001
SINCE 1993
ISO 14000
SINCE 1999



EMPLOYEES

3,000

AROUND
THE WORLD

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



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Hydraulic Hose Index

HOSES

C121

C122

C12A

C124

C126

TWO PIECE FERRULES
(STANDARD & INTERLOCK)H12 STANDARD
INSERTSH14 AND H1T
INTERLOCK INSERTS

CRIMPERS

TECHNICAL
INFORMATION

Alfabiotech 2000
MINETUFF - ABT2K 57



Alfabiotech 3000
MINETUFF - ABT3K 58



Alfabiotech 4000
MINETUFF - ABT4K 59



Alfabiotech 5000
MINETUFF - ABT5K 60



Alfabiotech 5000 Plus
MINETUFF - ABTP5K 61



Alfabiotech 5000
SUPERTUFF - ABT5KST 63



Alfabiotech 6000
MINETUFF - ABT6K 62



Alfabiotech 6000
SUPERTUFF - ABT6KST 64



Alfajet 210 Pressure Washer
Hose - TAJ3BK/TAJ3BU 77



Alfajet 400 Pressure Washer
Hose - TAJ5BK/TAJ5BU 78



Alfatech 3000 MINETUFF
Hose - AT3KMT 66



Alfatech 3000 SUPERTUFF
Hydraulic Hose - AT3KST 72



Alfatech 4000 MINETUFF
Hose - AT4KMT 67



Alfatech 4000 SUPERTUFF
Hydraulic Hose - AT4KST 73



Alfatech 5000 MINETUFF
Hose - AT5KMT 68



Alfatech 5000 SUPERTUFF
Hydraulic Hose - AT5KST 74



Alfatech 6000 MINETUFF
Hose - AT6KMT 69



Alfatech 6000 SUPERTUFF
Hydraulic Hose - AT6KST 75



Flexopak 2 - Minetuff
Hydraulic Hose 52



Flexopak 2 LT Low Temp
Hydraulic Hose 53



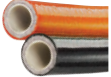
Flexor 1SN/R1AT
Hydraulic Hose 23

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Hydraulic Hose Index

	Flexor 1SN/R2AT MINETUFF - TR1MT 24		Temp Tech 1SN Hydraulic Hose..... 44
	Flexor 2SN/R2AT Hydraulic Hose 25		Temp Tech 2SN Hydraulic Hose 45
	Flexor 2SN/R2AT MINETUFF - TR2MT 26		Temp Tech R5 Hose - TR5TT 46
	Flexor 3 Hydraulic Hose..... 28		TR14TB Hydraulic Hose 76
	Flexor 4SH Hydraulic Hose 50		Piranha® Custom Twin Line 42
	Flexor 4SP Hydraulic Hose 49		Piranhaflex™ 100R7 Series PF267/PF267NC..... 36
	Flexor 5 Hydraulic Hose..... 30		Piranhaflex™ 100R7 Series PF354/PF354NC 32
	Flexor 6 Hydraulic Hose..... 31		Piranhaflex™ 100R7 Series PF367/PF367NC..... 35
	Flexor 12 Hydraulic Hose..... 47		Piranhaflex™ 100R7 Series PFAN388NC..... 37
	Flexor 13 Hydraulic Hose..... 48		Piranhaflex™ 100R7 - Low Temp Series PFLT364 38
	Flexor T2TE Hydraulic Hose 29		
	Flexor TR4XF Hydraulic Hose 29		
			Hose Selection Guide..... 16-21

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Hydraulic Hose Index

HOSES

C121

C122

C12A

C124

C126

TWO PIECE FERRULES
(STANDARD & INTERLOCK)

H12 STANDARD
INSERTS

H14 AND H1T
INTERLOCK INSERTS

CRIMPERS

TECHNICAL
INFORMATION



Piranhaflex™ 100R8
Series PF628/PF628NC 39



Piranhaflex™ 100R18
Series PF427/PF427NC 40



Piranhaflex™ PLUS 100R7
Series PFP354 33



Piranhaflex™ PLUS 100R7
Series PFP354NC 34



Piranhaflex™ Twin Line
Series PF354TL & PF354NCTL 41



Notes

HOSES

C121

C122

C12A

C124

C126

TWO PIECE FERRULES (STANDARD & INTERLOCK)

H12 STANDARD INSERTS

H14 AND H1T INTERLOCK INSERTS

CRIMPERS

TECHNICAL INFORMATION

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KHCCA0516


Kuriyama of America, Inc.

AGENCY SPECIFICATIONS

The listings below are intended only as guides in identifying which ALFAGOMMA or Piranhaflex hoses comply with requirements of various agencies.

SAE – Society of Automotive Engineers

DIN – Deutsche Institute Normen

EN – European Norme

ISO – International Organization for Standardization

DNV – Det Norske Veritas

ABS – American Bureau of Shipping

GIG – Główny Instytut Górnictwa

GL – Germanischer Lloyd

BV – Bureau Veritas

NKK – Nippon Kaiji Kyokai

RINA – Registro Navale Italiano

MSHA (US) – Mining Safety and Health Administration

USDOT – U.S. Department of Transportation

HOSE TYPE			AGENCY											
Kuriyama Series	(use) Hose Type	Page No.	SAE J517	EN	ISO	ALFAGOMMA Proprietary Hose	DNV† GL	ABS	BV	NKK	RINA	Lloyd's Register	MSHA	USDOT
ABT3K	ALFABIOTECH 3000 MINETUFF	58			18752	X							X	
ABT4K	ALFABIOTECH 4000 MINETUFF	59			18752	X	X						X	
ABT5K ABT5KST	ALFABIOTECH 5000 MINETUFF ALFABIOTECH 5000 SUPERTUFF	60 63			18752	X	X						X	
ABT6K ABT6KST	ALFABIOTECH 6000 MINETUFF ALFABIOTECH 6000 SUPERTUFF	62 64			18752	X	X		X				X	
ABTP5K	ALFABIOTECH PLUS 5000 MINETUFF	61			18752	X	X						X	
AT3KMT AT3KST	ALFATECH 3000 MINETUFF ALFATECH 3000 SUPERTUFF	66 72	100 R17	857	11237	X		X					X	
PF151R3	PIRANHAFLEX - 100R3													
PF267 PF267NC	PIRANHAFLEX	36	100 R7											
PF354 PF354NC	PIRANHAFLEX	32	100 R7											
PF321TC	PIRANHAFLEX - 100R7													
PF344LMT	PIRANHAFLEX - 100R7													
PF367 PF367NC	PIRANHAFLEX	35	100 R7											
PFP354 PFP354NC	PIRANHAFLEX	33 34	100 R7											
PFLT364	PIRANHAFLEX	38	100 R7											
PFAN388NC	PIRANHAFLEX	37	100 R7											
PF415CP	PIRANHAFLEX													
PF628 PF628NC	PIRANHAFLEX	39	100 R8											
PF427 PF427NC	PIRANHAFLEX	40	100R18											
T1SNTT	TEMP TECH 1SN	44	100 R1AT	853 1SN	1436	X	X							
T2SNTT	TEMP TECH 2SN	45	100 R2AT	853 2SN	1436	X								

† Det Norske Veritas (DNV) approvals are with permanent (crimp) type fittings only

‡ Hose with MSHA (Mine Safety and Health Administration) approved cover will be accordingly on the layline Listing may vary by hose style and size, for current and complete information, contact ALFAGOMMA or Piranhaflex for details.

★ DOT Type All approval up to size -12

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Hose Selection Guide

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HOSE TYPE			AGENCY											
Kuriyama Series	(use) Hose Type	Page No.	SAE J517	EN	ISO	ALFAGOMMA Proprietary Hose	DNV† GL	ABS	BV	NKK	RINA	Lloyd's Register	MSHA	USDOT
T4SP	FLEXOR 4SP	49		856 4SP	3862		X	X	X	X	X		X	
T4SH	FLEXOR 4SH	50		856 4SH	3862		X	X	X	X	X	X	X	
TAJ3BK TAJ3BU	ALFAJET 210	77				X								
TAJ5BK TAJ5BU	ALFAJET 400	78				X								
TF2MT	FLEXOPAK 2	52	100 R16	857 2SC	11237		X				X		X	
TF2LT	FLEXOPAK 2LT	53	100 R16	857 2SC	11237		X				X			
TR12	FLEXOR 12	47	100 R12	856 R12	3862		X	X		X	X		X	
TR13	FLEXOR 13	48	100 R13	856 R13	3862		X	X	X	X	X	X	X	
TR14TB	FLEXOR R14 SS BRAID PTFE	76	100 R14											
TR1SN/MT	FLEXOR 1AT/1SN	23-24	100 R1AT	853 1SN	1436		X	X					X	
TR2SN/MT	FLEXOR 2AT/2SN	25-26	100 R2AT	853 2SN	1436		X	X					X	
TR4XF	FLEXOR 4	29	100 R4						X					
TR6	FLEXOR 6	31	100 R6	854 R6										
T2TE	FLEXOR 2TE	27		854 2TE										
TR3	FLEXOR 3	28	100 R3	854 3TE										
TR5	FLEXOR 5	30	100 R5											X
TR5TT	TEMP TECH	46	100 R5			X								

† Det Norske Veritas (DNV) approvals are with permanent (crimp) type fittings only

¶ Hose with MSHA (Mine Safety and Health Administration) approved cover will be accordingly on the layline Listing may vary by hose style and size, for current and complete information, contact ALFAGOMMA or Piranhaflex for details.

★ DOT Type All approval up to size -12

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MAXIMUM RECOMMENDED OPERATING PRESSURES

The table below is intended as a guide in the selection of hose by operating pressure. It is not a guarantee. The final selection is also dependent upon the type of fluid, ambient temperature, concentration of agent, intermittent or continuous exposure,

etc. For further details on a specific hose see the respective catalog pages or consult your local ALFAGOMMA or Piranhaflex Sales Engineer or ALFAGOMMA S.p.A.

Maximum Operating Pressure (PSI)

Kuriyama Series	Hose Series Name	Diameter											
		inches	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
		DN	5	6	8	10	12	16	20	25	32	38	50
		Size	-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
ABT3K	ALFABIOTECH 3000 MINETUFF										3045	3045	3045
ABT4K	ALFABIOTECH 4000 MINETUFF								4000	4000	4000	4140	4000
ABT5K ABT5KST	ALFABIOTECH 5000 MINETUFF ALFABIOTECH 5000 SUPERTUFF							5000	5000	5000	5000	5000	5000
ABT6K ABT6KST	ALFABIOTECH 6000 MINETUFF ALFABIOTECH 6000 SUPERTUFF			6525		6450	6000	6000	6000	6000	6000	6000	
ABTP5K	ALFABIOTECH PLUS 5000 MINETUFF								5500	5500			
AT3KMT AT3KST	ALFATECH 3000 MINETUFF ALFATECH 3000 SUPERTUFF			3250	3100	3000	3000	4100	3500	3000			
PF151R3	PIRANHAFLEX			1500	1500	1250	1000						
PF267 PF267NC	PIRANHAFLEX		3000	2750	2500	2250	2000		1250				
PF321TC	PIRANHAFLEX		6000	6000		2250							
PF344LMT	PIRANHAFLEX			2750			2000		1500	1500			
PF354 PF354NC	PIRANHAFLEX		3000	2750	2500	2250	2000		1250				
PF367 PF367NC	PIRANHAFLEX		3000	2750	2500	2250	2000		1250				
PF415CP	PIRANHAFLEX			1500	1500	1500	1500						
PF427 PF427NC	PIRANHAFLEX			3000		3000	3000						
PF628 PF628NC	PIRANHAFLEX			5000		4000	3500		2250				
PFAN388NC	PIRANHAFLEX			3000		3000	3000						
PFLT364	PIRANHAFLEX			2750		2250	2000						
PFP354 PFP354NC	PIRANHAFLEX			2750		2250	2000						

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Hose Selection Guide

MAXIMUM RECOMMENDED OPERATING PRESSURES

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Maximum Operating Pressure (PSI)

Kuriyama Series	Hose Series Name	Diameter											
		inches	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
		DN	5	6	8	10	12	16	20	25	32	38	50
		Size	-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
T1SNTT	TEMP TECH 1SN			3270		2610	2320	1890	1530	1280	920	730	580
T2SNTT	TEMP TECH 2SN			5800		4800	4000	3630	3120	2400	1820	1310	1160
T2TE	FLEXOR 2TE			1100	1000	900	840	730	650	580			
T4SP	FLEXOR 4SP			6550		6450	6000	5000	5510	4640			
T4SH	FLEXOR 4SH								6000	5500	5000	4200	3650
TAJ3BK TAJ3BU	ALFAJET 210			3000	3000	3000	3000						
TAJ5BK TAJ5BU	ALFAJET 400			5800	5800	5800	5800						
TF2MT TR2LT	FLEXOPAK 2/2LT			6000	5500	5000	4500	4100	3500	3000	2100	1800	1450
TR1SN/MT	FLEXOR 1AT/1SN		3630	3270	3120	2610	2320	1890	1530	1280	920	730	580
TR2SN/MT	FLEXOR 2AT/2SN		6000	5800	5000	4800	4000	3630	3120	2400	1820	1310	1160
TR4XF	FLEXOR 4								375	300	250	150	100
TR3	FLEXOR 3			2100	1900	1600	1350	1150	1000	800	650	580	470
TR6	FLEXOR 6			400	400	400	400	350	300	250			
TR12	FLEXOR 12					4000	4000	4000	4000	4000	3000	2500	2500
TR13	FLEXOR 13									5500	5000	5000	5000
TR14TB	FLEXOR R14 SS BRAID PTFE		3000	2600	2250	2000	1750	1500	1250	750			

Flexor 5 100R5 Reduced Bore Sizes and Working Pressures

Kuriyama Series	Series Name	Diameter											
		inches		3/16	1/4	5/16	13/32	1/2	5/8	7/8	1 1/8	1 3/8	1 13/16
		Dash Size		-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
TR5 / TR5TT	FLEXOR 5 and TEMP TECH			3000	3000	2250	2000	1750	1500	800	625	500	350

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MAXIMUM RECOMMENDED OPERATING PRESSURES

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etc. For further details on a specific hose see the respective catalog pages or consult your local ALFAGOMMA or Piranhaflex Sales Engineer or ALFAGOMMA S.p.A

Maximum Operating Pressure (MPa)

Kuriyama Series	Hose Series Name	Diameter											
		inches	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
		DN	5	6	8	10	12	16	20	25	32	38	50
		Size	-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
ABT3K	ALFABIOTECH 3000 MINETUFF										21.0	21.0	21.0
ABT4K	ALFABIOTECH 4000 MINETUFF								28.0	28.0	28.0	29.0	28.0
ABT5K ABT5KST	ALFABIOTECH 5000 MINETUFF ALFABIOTECH 5000 SUPERTUFF							35.0	35.0	35.0	35.0	35.0	35.0
ABT6K ABT6KST	ALFABIOTECH 6000 MINETUFF ALFABIOTECH 6000 SUPERTUFF			45.0		44.5	42.0	42.0	42.0	42.0	42.0	42.0	
ABTP5K	ALFABIOTECH PLUS 5000 MINETUFF								38.0	38.0			
AT3KMT AT3KST	ALFATECH 3000 MINETUFF ALFATECH 3000 SUPERTUFF			22.5	21.5	21.0	21.0	28.0	24.0	21.0			
PF151R3	PIRANHAFLEX			10.3	10.3	8.6	7.0						
PF267 PF267NC	PIRANHAFLEX		21.0	19.0	17.2	15.5	13.8		8.6				
PF321TC	PIRANHAFLEX		42.0	42.0									
PF344LMT	PIRANHAFLEX			19.0		15.5	13.8		10.3	10.3			
PF354 PF354NC	PIRANHAFLEX		21.0	19.0	17.2	15.5	13.8		8.6				
PF367 PF367NC	PIRANHAFLEX		21.0	19.0	17.2	15.5	13.8		8.6				
PF415CP	PIRANHAFLEX			10.3	10.3	10.3	10.3						
PF427 PF427NC	PIRANHAFLEX			21.0		21.0	21.0						
PF628 PF628NC	PIRANHAFLEX			35		27.6	24		15.5				
PFAN388NC	PIRANHAFLEX			21.0		21.0	21.0						
PFLT364	PIRANHAFLEX			19.0		15.5	13.8						
PFP354 PFP354NC	PIRANHAFLEX			19.0		15.5	13.8						

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Hose Selection Guide

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Maximum Operating Pressure (MPa)

Kuriyama Series	Hose Series Name	Diameter											
		inches	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
		DN	5	6	8	10	12	16	20	25	32	38	50
		Size	-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
T1SNTT	TEMP TECH 1SN			22.5		18.0	16.0	13.0	10.5	8.8	6.3	5.0	4.0
T2SNTT	TEMP TECH 2SN			40.0		33.0	28.0	25.0	21.5	16.5	12.5	9.0	8.0
T2TE	FLEXOR 2TE			7.5	6.8	6.3	5.8	5.0	4.5	4.0			
T4SH	FLEXOR 4SH								42.0	38.0	35.0	29.0	25.0
T4SP	FLEXOR 4SP			45.0		44.5	41.5	35.0	38.0	32.0			
TAJ3BK TAJ3BU	ALFAJET 210			21.0	21.0	21.0	21.0						
TAJ5BK TAJ5BU	ALFAJET 400			40.0	40.0	40.0	40.0						
TF2MT TR2LT	FLEXOPAK 2/2LT			42.0	37.5	35.0	31.0	28.0	24.0	21.0	15.5	12.5	10.0
TR1SN/MT	FLEXOR 1AT/1SN		25.0	22.5	21.5	18.0	16.0	13.0	10.5	8.8	6.3	5.0	4.0
TR2SN/MT	FLEXOR 2AT/2SN		42.0	40.0	35.0	33.0	27.5	25.0	21.5	16.5	12.5	9.0	8.0
TR4XF	FLEXOR 4								2.5	2.0	1.7	1.0	0.7
TR3	FLEXOR 3			14.5	13.0	11.0	9.3	8.0	7.0	5.5	4.5	4.0	3.3
TR6	FLEXOR 6			2.8	2.8	2.8	2.8	2.4	2.1	1.7			
TR12	FLEXOR 12					28.0	28.0	28.0	28.0	28.0	21.0	17.5	17.5
TR13	FLEXOR 13									38.0	35.0	35.0	35.0
TR14TB	FLEXOR R14 SS BRAID PTFE		20.7	18.1	15.5	13.8	12.1	10.3	8.6	5.2			

Flexor 5 100R5 Reduced Bore Sizes and Working Pressures

Kuriyama Series	Series Name	Diameter											
		inches		3/16	1/4	5/16	13/32	1/2	5/8	7/8	1 1/8	1 3/8	1
		Dash											13/16
		Size		-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
TR5 / TR5TT	FLEXOR 5 and TEMP TECH			20.7	20.7	15.5	13.8	12.1	10.3	5.5	4.3	3.4	2.4

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HOSES
C121
C122
C12A
C124
C126
TWO PIECE FERRULES (STANDARD & INTERLOCK)
H12 STANDARD INSERTS
H14 AND H1T INTERLOCK INSERTS
CRIMPERS

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Single wire braid hydraulic hose on easy-to-handle reels – TR1SN



TR1SN – Single wire braid

Meets or exceeds
SAE 100 R1AT - EN 853 1SN
MSHA IC-152/8 approved

Construction:

Tube – Seamless synthetic rubber, black... oil-resistant.

Reinforcement – High tensile steel wire braid.

Cover – Synthetic rubber, black... weather, oil, fuel, ozone and abrasion-resistant.

Branding – ALFAGOMMA FLEXOR 1SN ID ...WP ...MPa (...PSI) – SAE 100 R1AT – EN 853 1SN MSHA IC-152/8... Q/YR DN ...

Applications:

Medium pressure service with high temperature petroleum-based hydraulic fluids, hot oil, grease, lubricants and crude oils, air and water. For air or gas application above 250 PSI (1.7 Mpa) the cover should be pin-pricked.

Temperature Range: -40°F (-40°C) to 212°F (100°C) constant operation.

Maximum operating temperature: 257°F (125°C). **Air maximum temperature:** 160°F (70°C).

Note: Operating temperatures in excess of 212°F (100°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psl)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations				
		(in.)	(mm)	(in.)	(mm)		(in.)			(mm)		AlfaCrimp One-Piece	Two-Piece Couplings	
													Ferrule Non-Skive	Ferrule Skive
TR1SN	03	3/16	4.8	0.46	11.8	3,630	3.5	90	0.11				AF1	AF3
TR1SN	04	1/4	6.4	0.52	13.4	3,270	4.0	100	0.15	B	C		AF1	AS2
TR1SN	05	5/16	7.9	0.59	15.0	3,120	4.5	115	0.17	B	C		AF1	AS2
TR1SN	06	3/8	9.5	0.68	17.4	2,610	5.0	130	0.22	B	C		AF1	AS2
TR1SN	08	1/2	12.7	0.81	20.6	2,320	7.0	180	0.28	B	C		AF1	AS2
TR1SN	10	5/8	15.9	0.93	23.7	1,890	8.0	200	0.34	B	C	D	AF1	AS2
TR1SN	12	3/4	19.0	1.09	27.7	1,530	9.5	240	0.44	B	C	D	AF1	AS2
TR1SN	16	1	25.4	1.40	35.6	1,280	12.0	300	0.70	B	C	D	AF1	AS2
TR1SN	20	1 1/4	31.8	1.71	43.5	920	16.5	420	0.80			D	AF1	AS1
TR1SN	24	1 1/2	38.1	1.99	50.6	730	20.0	500	1.08			D	AF1	AS1
TR1SN	32	2	50.8	2.52	64.0	580	25.0	630	1.38			D	AF1	AS1

† Minimum burst pressure 4-to-1 safety factor.

Note: 3/16" through 1" ID hoses supplied on reels.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Flexor 1SN/R1AT Minetuff Hydraulic Hose



Single wire braid hydraulic hose on easy-to-handle reels – TR1MT - MINETUFF

NEW



TR1MT – Single wire braid

Meets or exceeds
ISO 1436-1 - SAE 100 R1AT/R1S
EN 853 1SN
MSHA IC-152/16 approved

Construction:

Tube – Seamless synthetic rubber, black... oil-resistant.

Reinforcement – High tensile steel wire braid.

Cover – Synthetic rubber, black... weather, oil, fuel, ozone and abrasion-resistant.

Branding – ALFAGOMMA FLEXOR 1SN ID ...WP ...MPa
(...PSI) – SAE 100 R1AT – EN 853 1SN MSHA IC-152/16...
Q/YR DN ...

Applications:

Medium pressure service with high temperature petroleum-based hydraulic fluids, hot oil, grease, lubricants and crude oils, air and water. For air or gas application above 250 PSI (1.7 Mpa) the cover should be pin-pricked.

Temperature Range: -40°F (-40°C) to 212°F (100°C) constant operation.

Air maximum temperature: 160°F (70°C).

Note: Operating temperatures in excess of 212°F (100°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working [†] Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations			
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Two-Piece Couplings		
											Ferrule Non-Skive	Ferrule Skive	
TR1MT	04	1/4	6	0.51	13.0	3,270	4.0	100	0.13	B		AF1	AS2
TR1MT	05	5/16	8	0.57	14.5	3,120	4.6	115	0.16	B		AF1	AS2
TR1MT	06	3/8	10	0.68	17.2	2,610	5.2	130	0.20	B		AF1	AS2
TR1MT	08	1/2	13	0.79	20.1	2,320	7.2	180	0.25	B		AF1	AS2
TR1MT	10	5/8	16	0.91	23.1	1,890	8.0	200	0.28	B	D	AF1	AS2
TR1MT	12	3/4	19	1.07	27.3	1,530	9.6	240	0.38	B	D	AF1	AS2
TR1MT	16	1	25	1.39	35.2	1,280	12.0	300	0.58	B	D	AF1	AS2
TR1MT	20	1 1/4	32	1.67	42.5	920	16.8	420	0.74		D	AF1	AS1
TR1MT	24	1 1/2	38	1.96	49.7	730	20.0	500	0.89		D	AF1	AS1
TR1MT	32	2	51	2.48	62.9	580	25.2	630	1.23		D	AF1	AS1

[†] Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Double wire braid hydraulic hose on easy-to-handle reels – TR2SN



TR2SN – Double wire braid

Meets or exceeds SAE 100 R2AT - EN 853 2SN MSHA IC-152/8 approved

Construction:

Tube – Seamless synthetic rubber, black... oil-resistant.

Reinforcement – High tensile steel wire braid.

Cover – Synthetic rubber, black... weather, oil, fuel, ozone and abrasion-resistant.

Branding – ALFAGOMMA FLEXOR 2SN ID ...WP
...MPa (...PSI) – SAE 100R2AT - EN 853 2SN DN ...MSHA IC-152/8 - Q/YR

Applications:

Medium pressure service with high temperature petroleum-based hydraulic fluids, hot oil, grease, lubricants and crude oils, air and water. For air or gas application above 250 PSI (1.7 Mpa) the cover should be pin-pricked.

Temperature Range: -40°F (-40°C) to 212°F (100°C) constant operation.

Maximum operating temperature: 257°F (125°C).

Air maximum temperature: 160°F (70°C).

Note: Operating temperatures in excess of 212°F (100°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations			
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece		Two-Piece Couplings	
												Ferrule Non-Skive	Ferrule Skive
TR2SN	03	3/16	4.8	0.52	13.4	6,000	3.5	90	0.19			AF2	AF3
TR2SN	04	1/4	6.4	0.59	15.0	5,800	4.0	100	0.24	B	C	AF2	AS4
TR2SN	05	5/16	7.9	0.65	16.7	5,000	4.5	115	0.26	B	C	AF2	AS4
TR2SN	06	3/8	9.5	0.75	19.1	4,800	5.0	125	0.34	B	C	AF2	AS4
TR2SN	08	1/2	12.7	0.87	22.2	4,000	7.0	175	0.42		C	AF2	AS4
TR2SN	10	5/8	15.9	1.00	25.4	3,630	8.0	200	0.51	B	C	AF2	AS4
TR2SN	12	3/4	19.0	1.15	29.3	3,120	9.5	240	0.65	B	C	AF2	AS4
TR2SN	16	1	25.4	1.50	38.1	2,400	12.0	300	1.02	B	C	AF2	AS4
TR2SN	20	1 1/4	31.8	1.90	48.3	1,820	16.5	420	1.26			AF2	AS4
TR2SN	24	1 1/2	38.1	2.15	54.6	1,310	20.0	500	1.45			AF2	AS4
TR2SN	32	2	50.8	2.65	67.4	1,160	25.0	630	1.99			AF2	AS4

† Minimum burst pressure 4-to-1 safety factor.

Note: 3/16" through 1" ID hoses supplied on reels.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Flexor 2SN/R2AT Minetuff Hydraulic Hose



Double wire braid hydraulic hose on easy-to-handle reels –TR2MT - MINETUFF

NEW



TR2MT – Double wire braid

Meets or exceeds SAE 100 R2AT
ISO 1436-1 - SAE 100 R2AT/R2S
EN 853 2SN MSHA IC-152/16 approved

Construction:

Tube – Seamless synthetic rubber, black... oil-resistant.

Reinforcement – High tensile steel wire braid.

Cover – Synthetic rubber, black... weather, oil, fuel, ozone and abrasion-resistant.

Branding – ALFAGOMMA FLEXOR 2SN ID ...WP
...MPa (...PSI) – SAE 100R2AT - EN 853 2SN DN ...MSHA
IC-152/16 - Q/YR

Applications:

Medium pressure service with high temperature petroleum-based hydraulic fluids, hot oil, grease, lubricants and crude oils, air and water. For air or gas application above 250 PSI (1.7 Mpa) the cover should be pin-pricked.

Temperature Range: -40°F (-40°C) to 212°F (100°C) constant operation.

Air maximum temperature: 160°F (70°C).

Note: Operating temperatures in excess of 212°F (100°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations		
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Two-Piece Couplings	
											Ferrule Non-Skive	Ferrule Skive
TR2MT	04	1/4	6	0.57	14.5	5,800	4.0	100	0.22	B	AF2	AF3
TR2MT	05	5/16	8	0.63	16.1	5,000	4.6	115	0.23	B	AF2	AS4
TR2MT	06	3/8	10	0.73	18.5	4,800	5.0	125	0.31	B	AF2	AS4
TR2MT	08	1/2	13	0.84	21.4	4,000	7.0	175	0.36	B	AF2	AS4
TR2MT	10	5/8	16	0.97	24.6	3,630	8.0	200	0.45	B	AF2	AS4
TR2MT	12	3/4	19	1.14	29.0	3,120	9.6	240	0.57	B	AF2	AS4
TR2MT	16	1	25	1.45	36.8	2,400	12.0	300	0.84	B	AF2	AS4
TR2MT	20	1 1/4	32	1.83	46.4	1,820	16.8	420	1.03		AF2	AS4
TR2MT	24	1 1/2	38	2.11	53.7	1,310	20.0	500	1.36		AF2	AS4
TR2MT	32	2	51	2.59	65.9	1,160	25.2	630	1.85		AF2	AS4

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Textile-reinforced hydraulic hose with one braid – T2TE

Halogen-Free Compound



NEW

T2TE – One High Tensile Textile Braids

Meets or exceeds EN 854 2TE

Construction:

Tube – Synthetic rubber, black... oil-resistant.

Reinforcement – One High Tensile Textile Braid.

Cover – Synthetic rubber, black... hydrocarbon, ozone and abrasion-resistant.

Branding – ALFAGOMMA FLEXOR 2TE ID... -WP... MPa (... PSI) - DN... Q/yr

Applications:

Medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Excellent for hydraulic return line hose where high temperatures are encountered for air or gas applications above 1.7 MPa (250 psi); the cover should be pin-pricked.

Temperature Range: -40°F (-40°C) to 212°F (100°C) constant operation.

Maximum operating temperature: 257°F (125°C). **Air maximum temperature:** 160°F (70°C).

Note: Operating temperatures in excess of 212°F (100°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psl)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings
										Ferrule Non-Skive
T2TE	04	1/4	6	0.52	13.1	1,100	1.6	40	0.07	AS2*
T2TE	05	5/16	8	0.59	14.9	1,000	2.0	50	0.10	AS2*
T2TE	06	3/8	10	0.65	16.5	900	2.4	60	0.11	AS2*
T2TE	08	1/2	13	0.78	19.7	840	2.8	70	0.14	AS2*
T2TE	10	5/8	16	0.94	23.9	730	3.6	90	0.19	AS2*
T2TE	12	3/4	19	1.06	27.0	650	4.4	110	0.23	AS2*
T2TE	16	1	25	1.35	34.4	580	6.0	150	0.34	AS2*

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Flexor 3 Hydraulic Hose



Textile-reinforced hydraulic hose with two braids – TR3



TR3 – Two High Tensile Textile Braids

Meets or exceeds SAE 100 R3 - EN 854 R3 - DN

Construction:

Tube – Synthetic rubber, black... oil-resistant.

Reinforcement – Two High Tensile Textile Braid (2B).

Cover – Synthetic rubber, black... hydrocarbon, ozone and abrasion-resistant.

Branding – ALFAGOMMA FLEXOR 3 ID... -WP... MPa (... PSI) - SAE 100R3-EN854 R3 -DN... Q/yr

Applications:

Medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Not recommended for diver air hose. For air or gas applications above 1.7 MPa (250 PSI); the cover should be pin-pricked.

MSHA accepted cover available on request.

Temperature Range: -40°F (-40°C) to 212°F (100°C) constant operation.

Maximum operating temperature: 257°F (125°C). **Air maximum temperature:** 160°F (70°C).

Note: Operating temperatures in excess of 212°F (100°C) may materially reduce the life of the hose.

Nominal Specifications

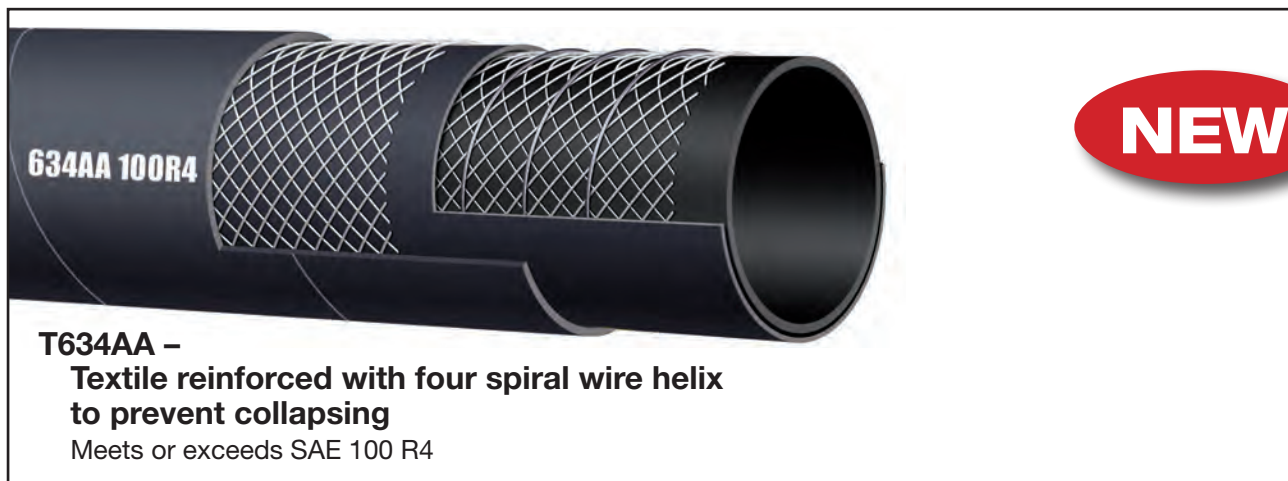
Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings Ferrule Non-Skive
TR3	04	1/4	6	0.57	14.4	2,100	1.8	45	0.11	AF3
TR3	05	5/16	8	0.67	16.9	1,900	2.2	55	0.15	AF3
TR3	06	3/8	10	0.73	18.5	1,600	2.8	70	0.16	AF3
TR3	08	1/2	13	0.85	21.7	1,350	3.4	85	0.19	AF3
TR3	10	5/8	16	1.02	25.9	1,150	4.2	105	0.27	AF3
TR3	12	3/4	19	1.14	29.0	1,000	5.2	130	0.31	AF3
TR3	16	1	25	1.41	35.9	800	6.0	150	0.41	AF3

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Flexor TR4XF – Extra Flexible SAE 100 R4 Oil Return Hose



Construction:

Tube – Black, conductive NBR.

Reinforcement – Textile reinforced with four spiral wire helix to prevent collapsing.

Cover – Black CR... oil, fuel, weather, ozone and abrasion-resistant.

Branding – ALFAGOMMA – Italy – T634 (PSI) - SAE 100 R4 - (SIZE) - Date

Applications:

Low pressure return lines or suction lines with half the bend radius requirements of SAE J517 100 R4, service with petroleum based hydraulic fluids, water-glycol and water-fire resistant hydraulic fluids, oil, lubricants, crude oil, fuel oils and water.

Temperature Range: -40°F (-40°C) to 212°F (100°C) constant operation.

Maximum operating temperature: 257°F (+125°C). **Air maximum temperature:** 175°F (80°C).

Note: Operating temperatures in excess of 212°F (100°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psl)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings Ferrule Non-Skive
TR4XF	12	3/4	19	1.14	29	375	1.5	38	0.39	AF3
TR4XF	16	1	25	1.38	35	300	2.0	50	0.50	AF3
TR4XF	20	1 1/4	32	1.65	42	250	2.5	64	0.62	AF3
TR4XF	24	1 1/2	38	1.89	48	150	3.0	76	0.72	AF3
TR4XF	32	2	51	2.40	61	100	4.0	102	0.93	AF3

Note: For sizes larger than 2", please refer to Kuriyama's Industrial Rubber Hose catalog, Type T605AA.

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Flexor 5 Hydraulic Hose



One-wire braid hydraulic hose – TR5



SAE J1402 DOT All FM VSS 106

TR5 – One-wire braid-reinforced
Meets or exceeds SAE 100 R5

Construction:

Tube – Oil-resistant synthetic rubber.

Reinforcement – One high tensile steel braid.

Cover – Polyester textile braid.

Branding – ALFAGOMMA FLEXOR 5 ID ...WP ...MPa (...PSI) SAE 100 R5*

Applications:

Medium pressure service hydraulic petroleum-based oil line in impulse applications; gasoline, lube oil, fuel lines and oil for Bio-diesel; applications such as air brakes, power steering, fuel filters, turbocharger oil supplies, tilt cab cylinders, transmission coolant, engine coolant and filtration lines. Meets or exceeds requirements of SAE 100 R5 for traditional hydraulic applications.

Note: Hose cover does not need to be removed before attaching couplings.

Temperature Range: -40°F (-40°C) to 212°F (100°C) constant operation.

Maximum operating temperature: 257°F (125°C). **Air maximum temperature:** 160°F (70°C).

Note: Operating temperatures in excess of 212°F (100°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations	
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings	
										Ferrule Non-Skive	Insert Non-Skive
TR5	04	3/16	5	0.52	13.2	3,000	3.0	76	0.15	AF3-03	A-03XX
TR5	05	1/4	6	0.58	14.8	3,000	3.4	86	0.18	AF3-04	A-04XX
TR5	06	5/16	8	0.68	17.3	2,250	4.1	102	0.23	AF3-05	A-05XX
TR5	08	13/32	11	0.77	19.5	2,000	4.7	117	0.30	AF3-06	A-06XX
TR5	10	1/2	13	0.92	23.4	1,750	5.6	140	0.38	AF3-08	A-08XX
TR5	12	5/8	16	1.08	27.4	1,500	6.6	165	0.45	AF3-10	A-10XX
TR5	16	7/8	22	1.24	31.4	800	7.5	187	0.48	AF3-12	A-14XX
TR5	20	1 1/8	29	1.50	38.1	625	9.2	229	0.57	AF3-16	A-18XX
TR5	24	1 3/8	35	1.75	44.5	500	10.7	267	0.71	AF3-20	A-22XX
TR5	32	1 13/16	46	2.22	56.4	350	13.5	337	0.91	AS1-32*	A-29XX

† Minimum burst pressure 4-to-1 safety factor.

* Sizes -04 through -12 are DOT Type All approved and branded.

Note: 3/16" through 1" ID hoses supplied on reels.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

*Do Not Skive

Textile-reinforced hydraulic hose with one braid – TR6



TR6 – One High Tensile Textile Braid

Meets or exceeds SAE 100 R6 - EN 854 R6

Construction:

Tube – Synthetic rubber, black... oil-resistant.

Reinforcement – One High Tensile Textile Braid.

Cover – Synthetic rubber, black... hydrocarbon, ozone and abrasion-resistant.

Branding – ALFAGOMMA FLEXOR 6 ID... -WP... MPa
(... PSI) - SAE 100R6-EN854 R6 -DN... Q/yr

Applications:

Low pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Excellent for hydraulic return line hose where high temperatures are encountered for air or gas applications above 1.7 MPa (250 psi); the cover should be pin-pricked.

MSHA accepted cover available on request.

Temperature Range: -40°F (-40°C) to 212°F (100°C) constant operation.

Maximum operating temperature: 257°F (125°C). **Air maximum temperature:** 160°F (70°C).

Note: Operating temperatures in excess of 212°F (100°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings
										Ferrule Non-Skive
TR6	04	1/4	6	0.50	12.7	400	2.6	64	0.09	AS2*
TR6	05	5/16	8	0.56	14.3	400	3.0	76	0.09	AS2*
TR6	06	3/8	10	0.63	15.9	400	3.0	76	0.11	AS2*
TR6	08	1/2	13	0.78	19.8	400	4.1	102	0.15	AS2*
TR6	10	5/8	16	0.91	23.0	350	4.3	107	0.18	AS2*
TR6	12	3/4	19	1.06	26.9	300	6.1	152	0.25	AS2*
TR6	16	1	25	1.31	33.4	250	8.1	203	0.33	AS2*

† Minimum burst pressure 4-to-1 safety factor.

*Do Not Skive

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Series PF354/PF354NC



Construction:

PiranhaflexTM Series **PF354** & **PF354NC** consist of three individual components bonded to ensure maximum performance.

Tube – Seamless nylon inner tube.

Reinforcement – Braided high tensile strength fiber reinforcement.

Cover – Series **PF354** has a **black** abrasion resistant polyurethane pin picked cover; **Series PF354NC** has an **Orange non-conductive (REACH Compliant), non-pin picked cover.**

Features:

- Meets or exceeds SAE J517 Standards
- Tested at ½ bend radius under SAE Standards
- Exceeds 100R7 impulse requirements
- Light weight and flexible
- Ideal for general hydraulic services

Temperature Range: -40°F (-40°C) to +200°F (+93°C) for petroleum based hydraulic fluids.

Applications:

PiranhaflexTM Series **PF354** and **PF354NC** (for non-conductive applications) are ideal for medium pressure hydraulic hose applications for hydraulic oil and lubrication lines.

(-02 and -16 MTO are available upon request)

(For Twin Line please refer to page 41 for available stock sizes)

Packaging:

- Hoses supplied in 250 ft. reels & 50 ft. box lengths.
- All reels will have no more than 2 pieces, with no piece less than 50' in length.
- All 50' boxes contain only 1 piece of hose.
- All specials are treated as a made-to-order item and will require a minimum of 5,000 ft. to produce.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working [†] Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings
PF354/ PF354NC	03	3/16	4.8	0.415	10.5	3,000	0.75	19	0.05	PFR-03
PF354/ PF354NC	04	1/4	6.4	0.496	12.6	2,750	1.50	38	0.06	PFR-04
PF354/ PF354NC	05	5/16	8.1	0.580	14.7	2,500	1.75	44	0.08	PFR7-05
PF354/ PF354NC	06	3/8	9.7	0.650	16.5	2,250	2.00	51	0.11	PFR-06
PF354/ PF354NC	08	1/2	13.1	0.834	21.2	2,000	3.00	76	0.16	PFR-08
PF354/ PF354NC	12	3/4	19.1	1.050	26.7	1,250	6.00	152	0.22	PFR-12

[†] Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Series PFP354



Construction:

PiranhaflexTM **PLUS** Series **PFP354** consists of three individual components bonded to ensure maximum performance.

Tube – Seamless nylon inner tube.

Reinforcement – Braided high tensile strength fiber reinforcement.

Cover – Series **PFP354** has a **black** abrasion resistant / special low friction polyurethane pin pricked cover.

Features:

- Meets or exceeds SAE J517 Standards
- Tested at ½ bend radius under SAE Standards
- Exceeds 100R7 impulse requirements
- Light weight and flexible
- Special low friction cover eliminates hose routing problems between hose sheaves and pulleys with Fork Truck applications.

Applications:

PiranhaflexTM **Plus** Series **PFP354** is the ideal hose for medium pressure hydraulic lines commonly used on Fork Trucks. The “**Plus**” refers to the specially engineered low friction cover compound which helps in eliminating hose routing problems between hose sheaves and pulleys. Use of PiranhaflexTM **Plus** helps in extending hose service life with less frequent replacement and allows for increased flexibility and easier routing when hoses are bundled.
(-12 and -16 MTO are available upon request)

Packaging:

- Hoses supplied in 250 ft. reels.
- All reels will have no more than 2 pieces, with no piece less than 50’ in length.
- All specials are treated as a made-to-order item and will require a minimum of 5,000 ft. to produce.

Temperature Range: -40°F (-40°C) to +200°F (+93°C) for petroleum based hydraulic fluids.

Nominal Specifications

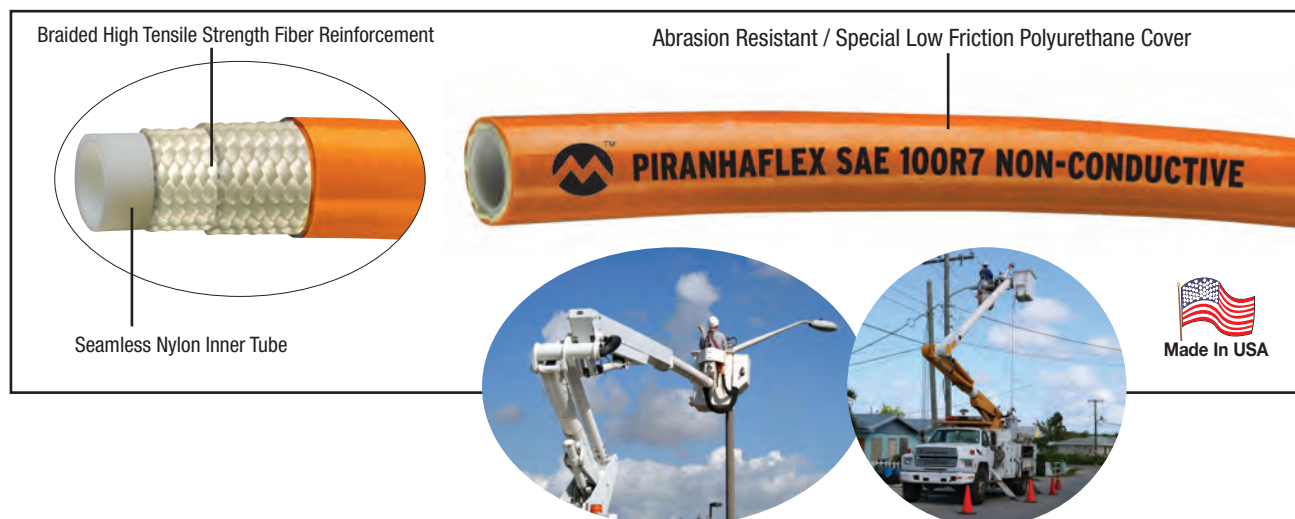
Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings
										Ferrule Non-Skive
PFP354	04	1/4	6.4	0.496	12.6	2,750	1.50	38	0.06	PFR-04
PFP354	06	3/8	9.7	0.650	16.5	2,250	2.00	51	0.11	PFR-06
PFP354	08	1/2	13.1	0.834	21.2	2,000	3.00	76	0.16	PFR-08

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

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Series PFP354NC



Construction:

PiranhaflexTM **PLUS** Series **PFP354NC** consists of three individual components bonded to ensure maximum performance.

Tube – Seamless nylon inner tube.

Reinforcement – Braided high tensile strength fiber reinforcement.

Cover – Series PFP354NC has an Orange non-conductive (REACH Compliant), non-pin pricked cover.

Features:

- Meets or exceeds SAE J517 Standards
- Tested at ½ bend radius under SAE Standards
- Exceeds 100R7 impulse requirements
- Light weight and flexible
- Special low friction cover eliminates hose routing problems with utility equipment applications.

Applications:

PiranhaflexTM **PLUS** "Non-Conductive" Series **PFP354NC** is the ideal hose for medium pressure hydraulic lines commonly used on utility equipment. The "**PLUS**" refers to the specially engineered low friction cover compound which helps in eliminating hose routing problems when used with utility equipment. Use of PiranhaflexTM **PLUS** helps in extending hose service life with less frequent replacement and allows for increased flexibility and easier routing when hoses are bundled.

Packaging:

- Hoses supplied in 250 ft. reels.
- All reels will have no more than 2 pieces, with no piece less than 50' in length.
- All specials are treated as a made-to-order item and will require a minimum of 5,000 ft. to produce.

Temperature Range: -40°F (-40°C) to +200°F (+93°C) for petroleum based hydraulic fluids.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working [†] Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings
										Ferrule Non-Skive
PFP354NC	04	1/4	6.4	0.496	12.6	2,750	1.50	38	0.06	PFR-04
PFP354NC	06	3/8	9.7	0.650	16.5	2,250	2.00	51	0.11	PFR-06
PFP354NC	08	1/2	13.1	0.834	21.2	2,000	3.00	76	0.16	PFR-08

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

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Series PF367/PF367NC



Construction:

PiranhaflexTM Series **PF367** & **PF367NC** consist of three individual components bonded to ensure maximum performance.

Tube – Seamless polyester inner tube.

Reinforcement – Braided high tensile strength fiber reinforcement.

Cover – Series **PF367** has a **black** abrasion resistant polyurethane pin picked cover; **Series PF367NC has an Orange non-conductive (REACH Compliant), non-pin pricked cover.**

Features:

- Meets or exceeds SAE J517 Standards
- Tested at ½ bend radius under SAE Standards
- Exceeds 100R7 impulse requirements
- Light weight and flexible
- Ideal for general hydraulic services

Temperature Range: -40°F (-40°C) to +200°F (+93°C) for petroleum based hydraulic fluids.
-40°F (-40°C) to +140°F (+60°C) for water-based and phosphate-ester based hydraulic fluids.

Applications:

PiranhaflexTM Series **PF367** and **PF367NC** (for non-conductive applications) are ideal for medium pressure hydraulic hose applications for hydraulic oil and lubrication lines.

(-02 and -16 MTO are available upon request)

(Twin/Multi Line MTO are available upon request)

Packaging:

- Hoses supplied in 250 ft. reels & 50 ft. box lengths.
- All reels will have no more than 2 pieces, with no piece less than 50' in length.
- All 50' boxes contain only 1 piece of hose.
- All specials are treated as a made-to-order item and will require a minimum of 5,000 ft. to produce.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings
										Ferrule Non-Skive
PF367/PF367NC	03	3/16	4.8	0.415	10.5	3,000	0.75	19	0.05	PFR-03
PF367/PF367NC	04	1/4	6.4	0.496	12.6	2,750	1.50	38	0.06	PFR-04
PF367/PF367NC	05	5/16	8.1	0.580	14.7	2,500	1.75	44	0.08	PFR7-05
PF367/PF367NC	06	3/8	9.7	0.650	16.5	2,250	2.00	51	0.11	PFR-06
PF367/PF367NC	08	1/2	13.1	0.834	21.2	2,000	3.00	76	0.16	PFR-08
PF367/PF367NC	12	3/4	19.1	1.050	26.7	1,250	6.00	152	0.22	PFR-12

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Series PF267/PF267NC

NEW



Construction:

PiranhaflexTM Series **PF267** & **PF267NC** consist of three individual components bonded to ensure maximum performance.

Tube – Seamless polyester inner tube.

Reinforcement – Braided high tensile strength fiber reinforcement.

Cover – Series **PF267** has a **black** abrasion resistant polyurethane pin picked cover; **Series PF267NC** has an **Orange non-conductive (REACH Compliant), non-pin pricked cover**.

Features:

- Meets or exceeds SAE J517 Standards
- Improved flexural rigidity, up to 16% less force to bend vs competitive 100R7 type hoses
- Light weight and flexible
- Improved kink resistance, up to 53% more force required to reach kink initiation vs competitive 100R7 type hose styles
- This new hose construction facilitates installation in very tight areas

Temperature Range: -40°F (-40°C) to +200°F (+93°C) for petroleum based hydraulic fluids.
-40°F (-40°C) to +140°F (+60°C) for water-based and phosphate-ester based hydraulic fluids.

Applications:

PiranhaflexTM Series **PF267** and **PF267NC** (for nonconductive applications) are ideal for medium pressure hydraulic hose applications for hydraulic oil and lubrication lines.

(-02 and -16 MTO are available upon request)

(Twin/Multi Line MTO are available upon request)

Packaging:

- Hoses supplied in 250 ft. reel lengths.
- All reels will have no more than 2 pieces, with no piece less than 50' in length.
- All 50' boxes contain only 1 piece of hose.
- All specials are treated as a made-to-order item and will require a minimum of 5,000 ft. to produce.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psl)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings
PF267/ PF267NC	03	3/16	4.8	0.415	10.5	3,000	0.75	19	0.05	PFR-03
PF267/ PF267NC	04	1/4	6.4	0.496	12.6	2,750	1.50	38	0.07	PFR-04
PF267/ PF267NC	05	5/16	8.1	0.580	14.7	2,500	1.75	44	0.09	PFR7-05
PF267/ PF267NC	06	3/8	9.7	0.651	16.5	2,250	2.00	51	0.12	PFR-06
PF267/ PF267NC	08	1/2	13.1	0.834	21.2	2,000	3.00	76	0.17	PFR-08
PF267/ PF267NC	12	3/4	19.1	1.050	26.7	1,250	6.00	152	0.24	PFR-12

† Minimum burst pressure 4-to-1 safety factor.

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Series PFAN388NC



Construction:

PiranhaflexTM Series **PFAN388NC** consists of three individual components bonded to ensure maximum performance.

Tube – Seamless nylon inner tube.

Reinforcement – Braided high tensile strength fiber reinforcement.

Cover – Series PFAN388NC has an Orange non-conductive (REACH Compliant), non-pin pricked cover.

Features:

- Meets or exceeds SAE J517 100R7 Standards
- Tested at ½ bend radius under SAE Standards
- Less than 50 microamperes leakage when subjected to 75,000 volts/ft. for 5 minutes
- Complies with the ANSI 92.2 for Vehicle Mounted Aerial Devices
- Light weight and flexible

Temperature Range: -40°F (-40°C) to +200°F (+93°C) for petroleum based hydraulic fluids.

Applications:

PiranhaflexTM Series **PFAN388NC** is ideal for medium pressure hydraulic lines commonly used on vehicle mounted aerial devices such as Boom Trucks and Cherry Pickers. PiranhaflexTM Series **PFAN388NC** is ideal for non-conductive medium pressure hydraulic hose applications.

Packaging:

- Hoses supplied in 250 ft. reels.
- All reels will have no more than 2 pieces, with no piece less than 50' in length.
- All specials are treated as a made-to-order item and will require a minimum of 5,000 ft. to produce.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working [†] Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings
										Ferrule Non-Skive
PFAN388NC	04	1/4	6.4	0.496	12.6	3,000	1.50	38	0.06	PFR-04
PFAN388NC	06	3/8	9.7	0.650	16.5	3,000	2.00	51	0.11	PFR-06
PFAN388NC	08	1/2	13.1	0.834	21.2	3,000	3.00	76	0.16	PFR-08

† Minimum burst pressure 3-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Series PFLT364



Construction:

PiranhaflexTM Series **PFLT364** consists of three individual components bonded to ensure maximum performance.

Tube – Seamless copolyester inner tube.

Reinforcement – Braided high tensile strength fiber reinforcement.

Cover – Series **PFLT364** has a **black** copolyester pin pricked cover.

Features:

- Meets or exceeds SAE J517 & J343 Standards
- Tested at ½ bend radius under SAE J517 100R7 Standards
- Exceeds SAE100R7 impulse requirements
- Light weight and flexible
- Improved cold temperature flexibility
- A special copolyester inner tube and cover provides superior low temperature flexibility

Temperature Range: -65°F (-65°C) to +200°F (+93°C) for petroleum based hydraulic fluids.
-65°F (-65°C) to +200°F (+93°C) for water-based and phosphate-ester based hydraulic fluids.

Applications:

PiranhaflexTM Series **PFLT364** is the ideal hose for medium pressure hydraulic lines commonly used on Fork Trucks to extend hose service life in cold storage applications.

Twin/Multi Line MTO are available upon request.

Packaging:

- Hoses supplied in 250 ft. reels.
- All reels will have no more than 2 pieces, with no piece less than 50' in length.
- All specials are treated as a made-to-order item and will require a minimum of 5,000 ft. to produce.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings
PFLT364	04	1/4	6.4	0.496	12.6	2,750	1.50	38	0.06	PFR-04
PFLT364	06	3/8	9.7	0.650	16.5	2,250	2.00	51	0.11	PFR-06
PFLT364	08	1/2	13.1	0.834	21.2	2,000	3.00	76	0.16	PFR-08

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

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Series PF628/PF628NC



Construction:

PiranhaflexTM Series **PF628** & **PF628NC** consist of three individual components chemically bonded to ensure maximum performance.

Tube – Extruded seamless polyester inner tube.

Reinforcement – Aramid fiber reinforcement.

Cover – Series **PF628** has a **black** highly abrasion resistant polyurethane pin picked cover; **Series PF628NC** has an **Orange non-conductive (REACH Compliant), non-pin pricked cover**.

Features:

- Extremely durable
- Good kink resistance
- Lightweight-less than about half that of comparable rubber/wire hose.
- Meets or exceeds SAE 100R8 impulse requirements at half of SAE recommended bend radius standards
- Will not swell or degrade in contact with most hydraulic fluids or oils
- Highly abrasion resistant
- Inner tube will not chip or peel in service, eliminating the possibility of system contamination.
- Linear change +/-3% under typical operating pressure

Temperature Range: -40°F (-40°C) to +200°F (+93°C) for petroleum based hydraulic fluids.
-40°F (-40°C) to +140°F (+60°C) for water-based and phosphate-ester based hydraulic fluids.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psl)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings
										Ferrule Non-Skive
PF628/PF628NC	04	1/4	6.5	0.485	12.3	5,000	2.00	50	0.07	PFR-04
PF628/PF628NC	06	3/8	9.7	0.630	16.0	4,000	2.50	64	0.10	
PF628/PF628NC	08	1/2	12.9	0.820	20.8	3,500	3.50	89	0.17	
PF628/PF628NC	12	3/4	19.1	1.050	26.7	2,250	4.50	114	0.20	

[†] Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

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Series PF427/PF427NC



Construction:

PiranhaflexTM Hydraulic Series **PF427** & **PF427NC** consist of three individual components bonded to ensure maximum performance.

Tube — Seamless polyester inner tube.

Reinforcement — Braided high tensile strength fiber reinforcement.

Cover — Series **PF427** has a **black** abrasion resistant polyurethane pin pricked cover; **Series PF427NC has an Orange non-conductive (REACH Compliant), non-pin pricked cover.**

Features:

- Meets or exceeds SAE J517 Standards
- Tested at ½ bend radius under SAE Standards
- Exceeds 100R18 impulse requirements
- Light weight and flexible
- Ideal for general hydraulic services

Temperature Range: -40°F (-40°C) to +200°F (+93°C) for petroleum based hydraulic fluids.
-40°F (-40°C) to +140°F (+60°C) for water-based and phosphate-ester based hydraulic fluids.

Applications:

PiranhaflexTM Hydraulic Series **PF427** is ideal for general purpose high pressure hydraulic applications with a constant working pressure of 3,000 psi for each diameter. This hose is commonly used in industrial hydraulic construction, material handling and agricultural equipment. PiranhaflexTM Hydraulic Series **PF427NC** has an orange, non-pin pricked cover, ideal for use in applications where a non conductive, high pressure hydraulic hose is required. Typical applications include: hydraulic tools, lubrication lines and man lifts.

(Twin/Multi Line MTO and available upon request)

Packaging:

- Hoses supplied in 250 ft. reels.
- All reels will have no more than 2 pieces, with no piece less than 50' in length.
- All specials are treated as a made-to-order item and will require a minimum of 5,000 ft. to produce.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working Pressure [†] (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings
PF427/ PF427NC	04	1/4	6.4	0.496	12.7	3,000	1.50	38	0.06	PFR-04
PF427/ PF427NC	06	3/8	9.7	0.650	16.5	3,000	2.00	51	0.11	PFR-06
PF427/ PF427NC	08	1/2	13.1	0.834	21.1	3,000	3.00	76	0.16	PFR-08

[†] Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

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Thermoplastic Hydraulic



Series PF354TL & PF354NCTL Twin Line Versions:

PIRANHAFLEX™ Series PF354TL Nylon Tube/Black Cover 100R7 Twin Line Hoses

Part Number	Packaging	Approx. Wt. lbs./ft.
PF354TL-04-250R	250' Reel	0.10
PF354TL-06-250R	250' Reel	0.13
PF354TL-08-200R	200' Reel	1.16

PIRANHAFLEX™ Series PF354NCTL Nylon Tube/Orange Cover Non-Conductive 100R7 Twin Line Hoses

Part Number	Packaging	Approx. Wt. lbs./ft.
PF354NCTL-04-250R	250' Reel	0.10
PF354NCTL-06-250R	250' Reel	0.13
PF354NCTL-08-200R	200' Reel	1.16

Series PF628TL & PF628NCTL Twin Line Versions:

PIRANHAFLEX™ Series PF628TL Polyester Tube/Black Cover 100R8 Twin Line Hoses

Part Number	Packaging	Approx. Wt. lbs./ft.
PF628TL-04-250R	250' Reel	0.14
PF628TL-06-250R	250' Reel	0.20
PF628TL-08-200R	200' Reel	0.34

PIRANHAFLEX™ Series PF628NCTL Polyester Tube/Orange Cover Non-Conductive 100R8 Twin Line Hoses

Part Number	Packaging	Approx. Wt. lbs./ft.
PF628NCTL-04-250R	250' Reel	0.14
PF628NCTL-06-250R	250' Reel	0.20
PF628NCTL-08-200R	200' Reel	0.34

Custom Twin and Multi Line hoses are available on request and are made to order.

For more information contact Piranha Hose Products, Inc.

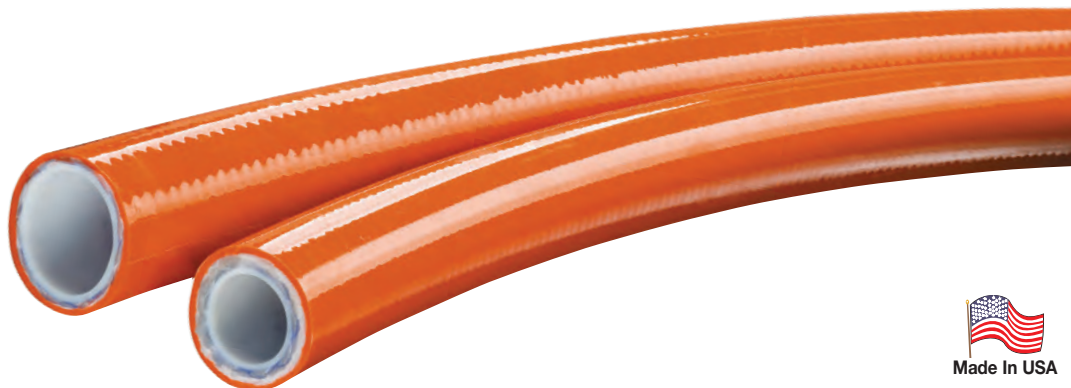
Phone: (231) 779-4390 • Toll-free: (800) 250-5132 • International FAX: (231) 779-4399

Web Site: www.piranhahose.com • E-Mail: sales@piranhahose.com

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Piranha Twin Line Process



- Bonding of hose sizes from 1/4" through 2" ID from available stocked hoses.
- For non-stock hose items, a minimum order of 2,500 ft. is required.
- Split-Back ends are provided; typically as lengths of 12", 18" or 24" for ease of coupling and assembly.
- Intermittent bonding can also be provided in lengths to meet your applications needs.
- Special packaging is available as required to meet your application needs.



- Color coding of multi-line hose packs is available for identification and easy hook-ups.



- Combinations of same or different ID's can be provided in a ribbon type configuration.



Custom Twin and Multi Line hoses are available on request and are made to order.

For more information contact Piranha Hose Products, Inc.

Phone: (231) 779-4390 • Toll-free: (800) 250-5132 • International FAX: (231) 779-4399

Web Site: www.piranhahose.com • E-Mail: sales@piranhahose.com

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Like any other product, hydraulic hose is only as good as the material from which it is made. Up until now, progress in improving the service life of hydraulic hose at elevated temperatures has been extremely slow. Although there have been major advances in reinforcing techniques and materials, a major drawback has been the lack of availability of a superior elastomer that combines high retention of physical properties at elevated temperatures and long-term resistance to degradation by the fluids used in hydraulic service.

All of this has changed with the introduction of TEMP TECH, by ALFAGOMMA. This revolutionary hydraulic hose is fabricated with an inner tube made from a new, superior elastomeric material specifically developed for use in hydraulic hoses by a team of ALFAGOMMA chemists over a number of years.

TEMP TECH hydraulic hose provides a wide variety of benefits:

Resistance to degradation – TEMP TECH withstands long exposure to nearly every type of hydraulic fluid, lubricating oil or fuel commonly used in industry today, including fire-resistant hydraulic fluids. Unlike many conventional elastomers, the chemical nature of the elastomer used in the manufacture of TEMP TECH hydraulic hose is such that physical property changes due to continuing chemical reactions of ingredients do not occur.

Reduced downtime and maintenance costs – TEMP TECH hydraulic hose's superior performance and longer life helps minimize equipment maintenance and downtime, and improve profitability.

Longer service life – Laboratory and field tests have demonstrated that this unique hydraulic hose can outlast conventional hydraulic hose under extreme temperature and pressure conditions by as much as 500% (see sidebar).

Longer shelf life – TEMP TECH hydraulic hose resists the effects of ozone and other oxidizing agents present in the air at many industrial locations . . . property changes due to shelf aging are practically non-existent.

Reduced inventory costs – There is no need to stock hoses with an assortment of tube stocks for use with petroleum and phosphate-based fluids . . . stock only TEMP TECH hydraulic hose, with its wider diversity of fluid-resistance.

Ease of use – TEMP TECH hydraulic hose requires no special fittings for assembly. TEMP TECH uses standard crimped fittings.



ABOUT OUR LABORATORY TESTS

In laboratory tests, TEMP TECH hydraulic hose withstood 1,000,000 impulse cycles at continuous +300°F (+150°C) fluid temperature at standard SAE 100R2A – EN 853 2ST test pressures in all sizes.

It should be stressed that while certain other SAE 100R2A – EN 853 2ST hose constructions, under the same test conditions, will sometimes approach 1,000,000 cycles, the tubes of these hoses by then have become brittle and hardened. Flexing these hoses will produce cracks in the tubes.

The TEMP TECH hydraulic hose, after withstanding 1,000,000 impulse cycles at +300°F (+150°C) only gains a few points of hardness, retaining its elastic qualities.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Temp Tech 1SN Hydraulic Hose



Single wire braid high temperature hydraulic hose (Up to 300°F.) – T1SNTT



T1SNTT – Single wire braid

Meets or exceeds SAE 100 R1AT - EN 853 1SN

Construction:

Tube – Black tube, specifically compounded for temperature and chemical resistance, oil-resistant.

Reinforcement – One high tensile steel wire braid.

Cover – Synthetic rubber, blue... weather, oil, fuel, ozone and abrasion-resistant.

Branding – ALFAGOMMA TEMP TECH 1AT/1SN ID ... WP
...Mpa (...PSI) – SAE 100R1AT - EN 853 1SN DN ... Q/YR

Applications:

Wherever low or continuous high temperatures or fluid compatibility is a problem, this high quality, high performance hose solves the problem. Also ideal for use where greatly extended service life under "normal" conditions is desired.

Meets or exceeds the requirement of SAE J517 100R1 Type AT – EN 853 1SN

Temperature Range: -40°F (-40°C) to 300°F (150°C) constant operation.

Maximum operating temperature: 300°F (150°C). **Air maximum temperature:** 250°F (121°C).

Note: Operating temperatures in excess of 300°F (150°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations				
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece		Two-Piece Couplings		
												Ferrule Non-Skive	Ferrule Skive	
T1SNTT	04	1/4	6.0	0.53	13.4	3,260	4.0	100	0.15	B	C		AF1	AS2
T1SNTT	06	3/8	9.5	0.69	17.4	2,610	5.2	130	0.22	B	C		AF1	AS2
T1SNTT	08	1/2	12.7	0.81	20.6	2,320	7.2	180	0.28	B	C		AF1	AS2
T1SNTT	12	3/4	19.0	1.09	27.7	1,530	9.6	240	0.41	B	C	D	AF1	AS2
T1SNTT	16	1	25.4	1.40	35.6	1,280	12.0	300	0.62	B	C	D	AF1	AS2
T1SNTT	20	1 1/4	31.8	1.71	43.5	920	16.5	420	0.80			D	AF1	AS1
T1SNTT	24	1 1/2	38.0	1.99	50.6	730	20.0	500	1.09			D	AF1	AS1
T1SNTT	32	2	51.0	2.52	64.0	580	25.2	630	1.34			D	AF1	AS1

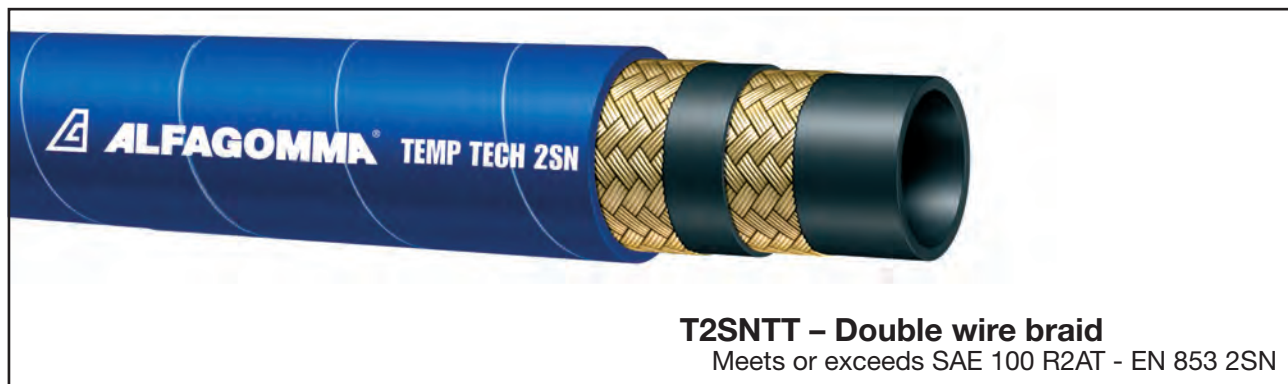
† Minimum burst pressure 4-to-1 safety factor.

Note: These hoses supplied on reels.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Double wire braid high temperature hydraulic hose (Up to 300°F.) – T2SNTT



Construction:

Tube – Black tube, specifically compounded for temperature and chemical resistance, oil-resistant.

Reinforcement – Two high tensile steel wire braids.

Cover – Synthetic rubber, blue... weather, oil, fuel, ozone and abrasion-resistant.

Branding – ALFAGOMMA TEMP TECH 2AT/2SN ID ... WP
...MPa (...PSI) – SAE 100R2AT - EN 853 2SN DN ... Q/YR

Applications:

Wherever low or continuous high temperatures or fluid compatibility is a problem, this high quality, high performance hose solves the problem. Also ideal for use where greatly extended service life under "normal" conditions is desired.

Meets or exceeds the requirement of SAE J517 100R2Type AT – EN 853 2SN

Temperature Range: -40°F (-40°C) to 300°F (150°C) constant operation.

Maximum operating temperature: 300°F (150°C). **Air maximum temperature:** 250°F (121°C).

Note: Operating temperatures in excess of 300°F (150°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations				
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Two-Piece Couplings			
											Ferrule Non-Skive	Ferrule Skive		
T2SNTT	04	1/4	6.4	0.59	15.0	5,800	4.0	100	0.24	B	C		AF2	AS2
T2SNTT	06	3/8	9.5	0.75	19.1	4,800	5.0	125	0.34	B	C		AF2	AS2
T2SNTT	08	1/2	12.7	0.87	22.2	4,000	7.0	175	0.43		C	D	AF2	AS2
T2SNTT	10	5/8	15.9	1.00	25.4	3,630	8.0	200	0.50	B	C	D	AF2	AS2
T2SNTT	12	3/4	19.0	1.15	29.3	3,120	9.6	240	0.61	B	C	D	AF2	AS2
T2SNTT	16	1	25.4	1.50	38.1	2,400	12.0	300	0.88	B	C	D	AF2	AS2
T2SNTT	20	1 1/4	31.8	1.90	48.3	1,820	16.8	420	1.29			D	AF2	AS2
T2SNTT	24	1 1/2	38.1	2.15	54.6	1,310	20.0	500	1.61			D	AF2	AS2
T2SNTT	32	2	50.8	2.65	67.4	1,160	25.2	630	1.98			D	AF2	AS2

† Minimum burst pressure 4-to-1 safety factor.

Note: 1/4" through 1" ID hoses supplied on reels.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Temp Tech R5 Hydraulic Hose



One-wire Braid Hydraulic Hose – TR5TT

NEW



TR5TT – One wire braid - Reinforced
Meets or exceeds SAE 100 R5

Construction:

Tube – Oil-resistant synthetic rubber.

Reinforcement – One high tensile steel braid.

Cover – Polyester textile braid.

Branding – ALFAGOMMA FLEXOR 5 ID ...WP ...MPa (...PSI) SAE 100 R5

Applications:

Medium pressure service hydraulic petroleum-based oil line in impulse applications; gasoline, lube oil, fuel lines and oil for Bio-diesel; applications such as air brakes, power steering, fuel filters, turbocharger oil supplies, tilt cab cylinders, transmission coolant, engine coolant and filtration lines. Meets or exceeds requirements of SAE 100 R5 for traditional hydraulic applications.

Note: Hose cover does not need to be removed before attaching couplings.

* Specifically designed for high temperature applications

Temperature Range: -40°F (-40°C) to 300°F (150°C) constant operation.

Maximum operating temperature: 257°F (125°C). **Air maximum temperature:** 230°F (110°C).

Note: Operating temperatures in excess of 212°F (100°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations	
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings	
										Ferrule Non-Skive	Insert Non-Skive
TR5TT	04	3/16	5	0.52	13.2	3,000	3.0	76	0.15	AF3-03	A-03XX
TR5TT	05	1/4	6	0.58	14.8	3,000	3.4	86	0.18	AF3-04	A-04XX
TR5TT	06	5/16	8	0.68	17.3	2,250	4.1	102	0.23	AF3-05	A-05XX
TR5TT	08	13/32	11	0.77	19.5	2,000	4.7	117	0.30	AF3-06	A-06XX
TR5TT	10	1/2	13	0.92	23.4	1,750	5.6	140	0.38	AF3-08	A-08XX
TR5TT	12	5/8	16	1.08	27.4	1,500	6.6	165	0.45	AF3-10	A-10XX
TR5TT	16	7/8	22	1.24	31.4	800	7.5	187	0.46	AF3-12	A-14XX
TR5TT	20	1 1/8	29	1.50	38.1	625	9.2	229	0.57	AF3-16	A-18XX
TR5TT	24	1 3/8	35	1.75	44.5	500	10.7	267	0.71	AF3-20	A-22XX
TR5TT	32	1 13/16	46	2.22	56.4	350	13.5	337	0.91	AS1-32*	A-29XX

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Four layer wire spiral reinforced hydraulic hose – TR12



TR12 – Four wire spiral

Meets or exceeds SAE 100 R12 - EN 856 R12

Meets flame resistance acceptance designation US MSHA IC-152/2

Construction:

Tube – Synthetic rubber, black... oil-resistant.

Reinforcement – Four layers of spirally wrapped high tensile steel wire, separated by synthetic rubber over a fabric layer.

Cover – Synthetic rubber, black non-marking... weather, oil, fuel, ozone and abrasion-resistant.

Branding – ALFAGOMMA FLEXOR 12 ID ...WP ... MPa (...PSI)
– SAE 100R12 – EN 856 R12 DN ...MSHA IC-152/2 - Q/YR

Applications:

Very high pressure service with tight bends with petroleum-based hydraulic fluids. Extraordinary flexibility, excellent bend radii properties, and exceptional impulse life, with over 1,000,000 impulse cycles at 250°F (121° C) and 133% of rated working pressure (at SAE 100 R12 conditions) when tested with appropriate ALFAGOMMA-interlock couplings.

Temperature Range: -40°F (-40°C) to 250°F (121°C) constant operation.

Maximum operating temperature: 257°F (125°C).

Note: Operating temperatures in excess of 257°F (125°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working Pressure (psl)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations		
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Two-Piece Couplings	
											Ferrule Non-Skive	Ferrule Skive
TR12	06	3/8	9.5	0.80	20.3	4,000	5.0	127	0.44	D	AF4	AS4
TR12	08	1/2	12.7	0.94	23.8	4,000	7.0	178	0.55	D	AF4	AS4
TR12	10	5/8	16.0	1.08	27.4	4,000	8.1	203	0.72	D	AF4	AS2
TR12	12	3/4	19.0	1.21	30.7	4,000	9.5	241	0.82	D	AF4	AS2
TR12	16	1	25.4	1.50	38.0	4,000	12.0	305	1.28	D	AF4	AS2
TR12	20	1 1/4	31.8	1.85	47.0	3,000	16.5	419	1.76	D	AF4	AS2
TR12	24	1 1/2	38.1	2.10	53.5	2,500	20.0	508	2.18	D	AF4	AS2
TR12	32	2	50.8	2.62	66.7	2,500	25.0	635	2.85	D		AS2

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Flexor 13 Hydraulic Hose



Four or six layer wire spiral reinforced hydraulic hose – TR13

TR13 – Four or six wire spiral

Meets or exceeds
SAE 100R13 - EN 856 R13
and ISO 3862

Meets flame resistance
acceptance designation
US MSHA IC-152/3



Construction:

Tube – Synthetic rubber, black... oil-resistant.

Reinforcement – Four or six layers of spirally wrapped, high tensile steel wire reinforcement, separated by synthetic rubber over a fabric layer.

Cover – Synthetic rubber, black... oil, fuel, weather, ozone and abrasion-resistant.

Branding – ALFAGOMMA FLEXOR 13 ID ...WP 35 MPa (5000 PSI) – SAE 100R13 – EN 856 R13 DN ...MSHA IC-152/3 – Q/YR

Applications:

Extremely high pressure service with petroleum based hydraulic fluids. Extraordinary flexibility, bend radius properties and exceptional impulse life over 1,000,000 impulse cycles at 250°F (121°C) and at 120% of rated working pressure when tested with ALFAGOMMA Interlock coupling.

Temperature Range: -40°F (-40°C) to 250°F (120°C) constant operation.

Maximum operating temperature: 257°F (125°C). **Air maximum temperature:** 175°F (80°C).

Note: Operating temperatures in excess of 250°F (121°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psl)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations		
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Two-Piece Couplings	
											Ferrule Interlock	
TR13	12	3/4	19.0	1.26	32.1	5,000	9.5	240	1.13	F		XF2
TR13	16	1	25.4	1.52	38.7	5,000	12.0	305	1.35	F		XF2
TR13	20	1 1/4	31.8	1.96	49.8	5,000	16.5	420	2.41	F	M	XF1
TR13	24	1 1/2	38.1	2.26	57.3	5,000	20.0	510	3.21	F		XF1
TR13	32	2	50.8	2.79	70.9	5,000	25.0	635	4.44		M	XF1

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Four layer wire spiral reinforced hydraulic hose – T4SP



Construction:

Tube – Synthetic rubber, black... oil-resistant.

Reinforcement – Four layers of spirally wrapped, high tensile steel wire reinforcement, separated by synthetic rubber over a fabric layer.

Cover – Synthetic rubber, black... oil, fuel, weather, ozone and abrasion-resistant.

Branding – ALFAGOMMA FLEXOR 4SP ID ...WP ...MPa (...PSI) – EN 856 4SP DN ...MSHA IC 152/8 - Q/YR

Applications:

Very high pulsating pressure service with petroleum based hydraulic fluids. Excellent flexibility and bend radius, allowing superior impulse life.

Temperature Range: -40°F (-40°C) to 250°F (121°C) constant operation.

Maximum operating temperature: 257°F (125°C). **Air maximum temperature:** 175°F (80°C).

Note: Operating temperatures in excess of 212°F (100°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Work- ing† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations	
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings	
										Ferrule Skive	Ferrule Interlock
T4SP	04	1/4	6.4	0.70	17.9	6,550	6.0	150	0.42	AS4	
T4SP	06	3/8	9.5	0.84	21.4	6,450	7.0	180	0.53	AS4	XF2
T4SP	08	1/2	12.7	0.97	24.6	6,000	9.0	230	0.65	AS4	XF2
T4SP	10	5/8	15.9	1.11	28.2	5,000	10.0	250	0.77	AS4	XF2
T4SP	12	3/4	19.0	1.27	32.2	5,000	12.0	300	1.05	AS4	XF2
T4SP	16	1	25.4	1.56	39.7	4,000	13.5	340	1.33	AS2	XF2

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Flexor 4SH Hydraulic Hose



Four layer wire spiral reinforced hydraulic hose – T4SH



T4SH – Four wire spiral

Meets or exceeds EN 856 4SH and ISO 3862

Meets flame resistance acceptance designation
US MSHA IC-152/8

Construction:

Tube – Synthetic rubber, black... oil-resistant.

Reinforcement – Four layers of spirally wrapped high tensile steel wire reinforcement, separated by synthetic rubber over a fabric layer.

Cover – Synthetic rubber, black... oil, fuel, weather, ozone and abrasion-resistant.

Branding – ALFAGOMMA FLEXOR 4SH ID ...WP ...MPa
(...PSI) – EN 856 4SH DNMSHA IC 152/8 - Q/YR

Applications:

Extremely high pulsating pressure service with petroleum based hydraulic fluids. Specially designed to achieve long impulse life together with an excellent flexibility at the most severe high pulsating working pressure and temperature conditions.

Temperature Range: -40°F (-40°C) to 212°F (100°C) constant operation.

Maximum operating temperature: 257°F (125°C). **Air maximum temperature:** 175°F (80°C).

Note: Operating temperatures in excess of 212°F (100°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations		
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Two-Piece Couplings	
											Ferrule Interlock	
T4SH	12	3/4	19.0	1.27	32.2	6,000	11.0	280	1.14	F		XF2
T4SH	16	1	25.4	1.52	38.7	5,500	13.5	340	1.44	F		XF2
T4SH	20	1 1/4	31.8	1.79	45.5	4,700	18.0	460	1.71	F		XF2
T4SH	24	1 1/2	38.1	2.11	53.5	4,200	22.0	560	2.30	F		XF2
T4SH	32	2	50.8	2.68	68.1	3,650	27.5	700	3.31		H	XF2

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

New Economical Alternative for High Abrasion Applications

MINETUFF is a special cover for hydraulic hose, which dramatically increase resistance to environmental and severe application damages.

Features:

- Excellent abrasion resistance (25 times higher than EN-ISO 6945 requirements)
- Reduces the need for any protective sleeve in applications requiring high abrasion resistance
- UV and ozone resistance (hose ageing reduction)

Applications:

- Mining and earth-moving machines (MINETUFF is abrasion resistant)
- Machineries for forestry (MINETUFF is resistant to impact-caused damage)
- Offshore applications (MINETUFF is ozone and UV resistant)
- Machineries for chemical plants (MINETUFF is resistant to most of the chemical agents)

Abrasion Resistance:

Tests according to EN-ISO 6945 norms (weight 50+/-5N) state that the maximum allowed loss of weight is 0.5g:

- Standard cover: 0.15g after 2,000 cycles
- MINETUFF cover: 0.02g after 2,000 cycles

Flame Resistance:

MINETUFF cover is MSHA (US MSHA 152/10) approved for flame resistance.

UV Rays and Chemicals:

MINETUFF cover is resistant to UV, animal fats, acids, and any other environmental stress.



Tests run according to EN-ISO, DIN and SAE specs show that MINETUFF can guarantee performances, highly superior to the standards.

Futhermore, MINETUFF was developed to be flame resistant, and it passed the Mine Safety and Health Administration severe tests.

MINETUFF is the solution that, together with the ALFATECH range, will help satisfy any demand for elevated performances and diameters.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Flexopak 2 - Minetuff Hydraulic Hose



Double compact wire braid hydraulic hose on easy-to-handle reels – TF2MT



TF2MT/TF2ST – Double wire braid

Meets or exceeds EN 857 2SC and exceeds SAE 100 R16

Construction:

Tube – Synthetic rubber, black.

Reinforcement – Two high tensile steel wire braids, separated by a layer of synthetic rubber.

Cover – Synthetic rubber, black... weather, oil, fuel, ozone and excellent abrasion-resistant.

Branding – ALFAGOMMA FLEXOPAK 2 ID ...WP ... MPa (... PSI) – EXCEEDS SAE 100 R16 – EN 857 2SC ...DN ...Q/YR

Applications:

High pressure service with tight bends with petroleum-based hydraulic fluids, water/glycol, water- and fire-resistant hydraulic fluids, hot oil, grease, lubricants, crude oil, fuel oils, air and water. Excellent impulse performance, exceeding 1,000,000 cycles when tested with appropriate ALFAGOMMA couplings. For air or gas application above 250 PSI (1.7 Mpa) the cover should be pin-pricked.

MSHA IC-152/8 accepted cover on TF2MT and TF2ST hose styles.

*Flexopak 2 is also available with our new SUPERTUFF cover.

Temperature Range: -40°F (-40°C) to 212°F (100°C) constant operation.

Maximum operating temperature: 257°F (125°C). **Air maximum temperature:** 160°F (70°C).

Note: Operating temperatures in excess of 212°F (100°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations				
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece		Two-Piece Couplings		
												Ferrule Non-Skive	Ferrule Skive	
TF2MT	04	1/4	6	0.53	13.4	6,000	2.0	51	0.17	B	C		AF1	AS2
TF2MT	06	3/8	10	0.69	17.4	5,000	2.5	64	0.26	B	C		AF1	AS2
TF2MT	08	1/2	12	0.81	20.6	4,500	3.5	90	0.35	B	C		AF1	AS2
TF2MT	10	5/8	16	0.93	23.7	4,100	4.0	101	0.40	B	C		AF1	AS2
TF2MT	12	3/4	20	1.09	27.7	3,500	4.7	121	0.52	B	C		AF1	AS2
TF2MT	16	1	25	1.40	35.6	3,000	6.0	152	0.83	B	C	D	AF1	AS2
TF2MT	20	1 1/4	32	1.70	43.3	2,100	8.3	210	1.01			D	AF1	AS1
TF2MT	24	1 1/2	38	1.96	49.9	1,800	16.9	430	1.32			D	AF1	AS1
TF2MT	32	2	51	2.50	63.5	1,450	21.6	550	1.71			D		AS2
TF2MT	40	2 1/2	63	3.01	76.4	1,100	28.3	720	2.21					
TF2MT	48	3	76	3.54	90.0	1,000	34.6	880	2.58		C			

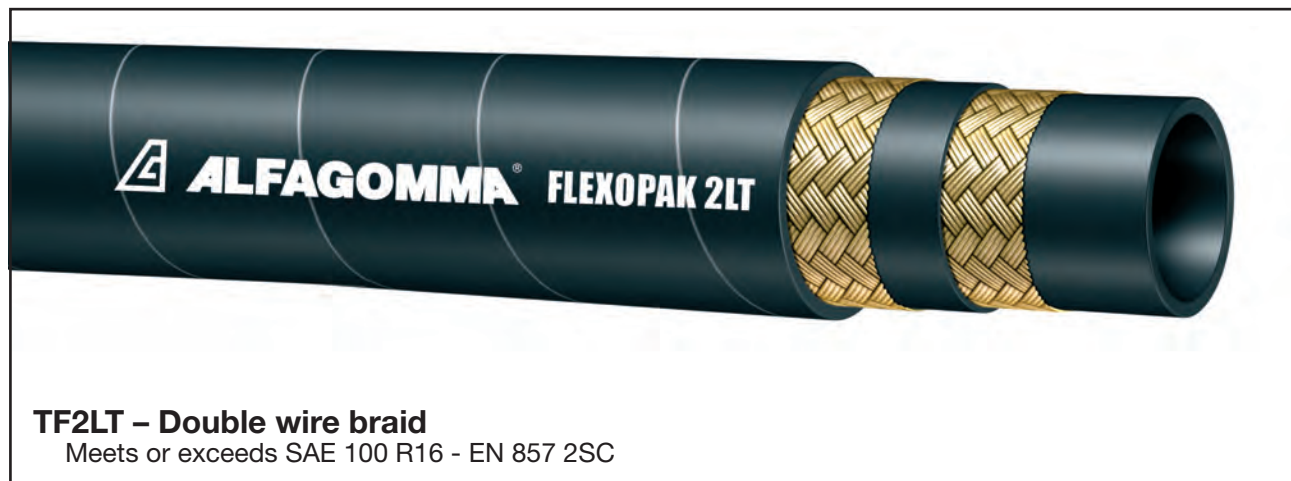
† Minimum burst pressure 4-to-1 safety factor.

‡ Note: The AlfaCrimp C122XXXX-XXXX fitting for FXP2 sizes -12 and -16 are not shown in this catalog. Please call your nearest KOA warehouse for details.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Double compact wire braid hydraulic hose – TF2LT



Construction:

Tube – Synthetic rubber, black... low temperature, oil-resistant.

Reinforcement – Two high tensile steel compact wire braids.

Cover – Synthetic rubber, black... weather, oil, ozone, abrasion and low temperature-resistant.

Branding – ALFAGOMMA FLEXOPAK 2 LT ID ...WP ... MPa (...PSI) – LOW TEMPERATURE -50°C – EXCEEDS SAE 100R16 - EN 857 2SC DN ...Q/YR

Applications:

Low temperature hose.

High pressure service hose with tight bending radius for low temperature applications with petroleum-based hydraulic fluids, water/glycol, water- and fire-resistant hydraulic fluids, hot oil, grease, lubricants, crude oil, fuel oils, air and water. Excellent impulse performance, exceeding 1,000,000 cycles when tested with appropriate ALFAGOMMA couplings. For air or gas application above 250 PSI (1.7 Mpa) the cover should be pin-pricked.

Temperature Range: -58°F (-50°C) to 212°F (100°C) constant operation.

Maximum operating temperature: 257°F (125°C).

Air maximum temperature: 160°F (70°C).

Note: Operating temperatures in excess of 212°F (100°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working [†] Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations				
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece		Two-Piece Couplings		
												Ferrule Non-Skive	Ferrule Skive	
TF2LT	04	1/4	6.4	0.53	13.4	5,850	2.56	64	0.17	B	C	AF1	AS2	
TF2LT	06	3/8	9.5	0.70	17.9	5,000	3.60	90	0.27	B	C	AF1	AS2	
TF2LT	08	1/2	12.7	0.81	20.6	4,500	4.60	115	0.35	B	C	AF1	AS2	
TF2LT	10	5/8	15.9	0.96	24.3	4,000	5.08	127	0.41	B	C	AF1	AS2	
TF2LT	12	3/4	19.0	1.09	27.7	3,500	6.08	152	0.54	B	C	AF1	AS2	
TF2LT	16	1	25.4	1.41	35.7	2,700	7.60	190	0.82	B	C	AF1	AS2	

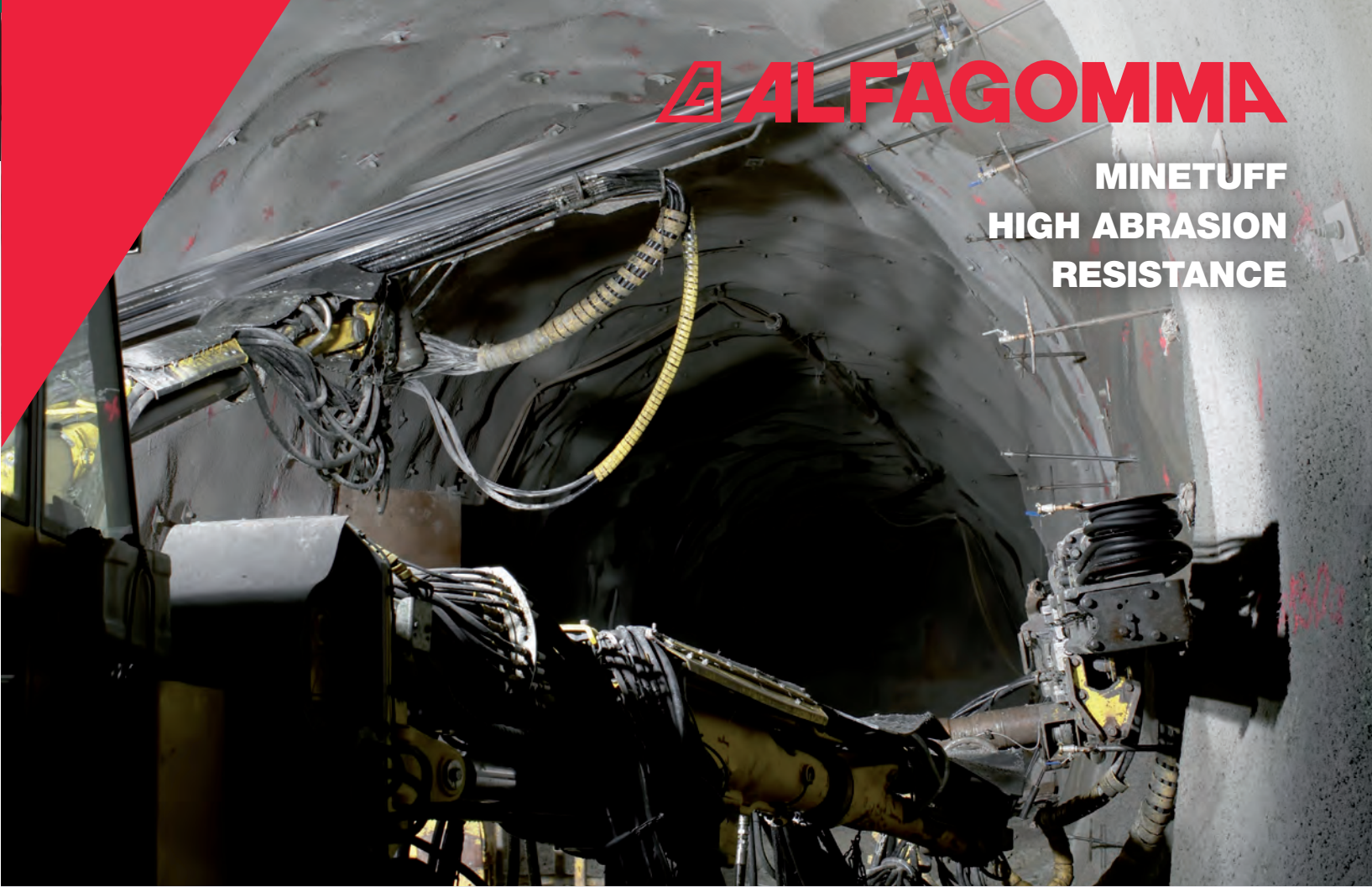
[†] Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

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HOSES
C121
C122
C12A
C124
C126
TWO PIECE FERRULES (STANDARD & INTERLOCK)
H12 STANDARD INSERTS
H14 AND H1T INTERLOCK INSERTS
CRIMPERS

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ALFAGOMMA

**MINETUFF
HIGH ABRASION
RESISTANCE**



MINETUFF COVER

- ▲ **EXCELLENT ABRASION RESISTANCE (10 TIMES HIGHER THAN EN-ISO 6945 REQUIREMENT)**
- ▲ **HIGH OZONE RESISTANCE (10 TIMES MORE THAN THE STANDARD)**
- ▲ **MSHA APPROVED COVER**
- ▲ **ALTERNATIVE TO PROTECTIVE SLEEVE IN APPLICATIONS REQUIRING ABRASION RESISTANCE**

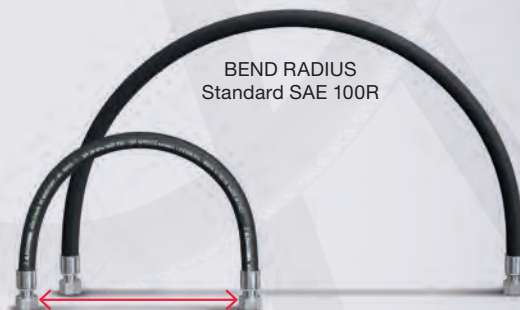
alfabiotech

**NEW EXTRA FLEXIBLE
BIO OIL RESISTANT
HOSE RANGE**



alfabiotech

- ▲ **SPECIALLY DESIGNED FOR BIO OIL FULL COMPATIBILITY**
- ▲ **EXTREME FLEXIBILITY: UP TO 50% BETTER BEND RADIUS COMPARED TO SAE 100R**
- ▲ **MINETUFF COVER FOR TOP ABRASION & OZONE RESISTANCE**
- ▲ **MSHA-APPROVED FIRE RESISTANT COVER**



BEND RADIUS
Standard SAE 100R

**BEND RADIUS
reduced up to 50%**

Alfabiotech 2000 - MINETUFF - ABT2K



Construction:

Tube – Oil resistant synthetic rubber and biodegradable hydraulic fluids.

Reinforcement – Four high tensile steel spirals (4S).

Cover – Abrasion, ozone and hydrocarbon resistant synthetic rubber.

MSHA IC-152/16 approved.

Applications:

Developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

Temperature – -40 °C +121 °C (-40 °F +250 °F)

Length – 200 feet from 1 1/4" to 2" - 100 feet for 2 1/2"

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working [†] Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Ferrule Skive
ABT2K	40	2 1/2	63	3.11	79.0	2,030	28.35	720	3.11	AS2
ABT2K	48	3	76	3.64	92.5	2,030	33.07	840	3.62	AS2

[†] Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Alfabiotech ABT3K Hydraulic Hose



Alfabiotech 3000 - MINETUFF - ABT3K

NEW



ABT3K - 4 or 6 wire spiral

Exceeds SAE 100R12 all sizes

ISO 18752/CC all sizes

Meets flame resistance acceptance designation US MSHA IC-152/16

Construction:

Tube – Oil resistant synthetic rubber and biodegradable hydraulic fluids.

Reinforcement – Four/six high tensile steel spirals (4S/6S).

Cover – Abrasion, ozone and hydrocarbon resistant synthetic rubber.

Branding – ALFAGOMMA ALFABIOTECH 3K MINETUFF ...
WP 21 MPa (3000 PSI) - ISO 18752/CC - exceeds SAE 100 R12 - MSHA IC-152/16 - MADE IN ITALY

Applications:

Developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

Temperature – -40 °C +121 °C (-40 °F +250 °F)

Length – 200 feet from 1 1/4" to 2" - 100 feet for 2 1/2"

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working [†] Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations		
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Ferrule Non-Skive	Ferrule Skive
ABT3K	20	1 1/4	31.8	1.80	47.5	3,045	9.0	230	1.52	D	AF4	AS4
ABT3K	24	1 1/2	38.1	2.04	51.8	3,045	16.5	420	1.85	D	AF4	AS4
ABT3K	32	2	50.8	2.63	66.8	3,045	22.0	560	2.68	D		
ABT3K	48	3	76.0	3.76	95.6	3,045	35.4	900	5.33			ZF1

[†] Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Alfabiotech 4000 - MINETUFF - ABT4K



NEW

ABT4K - 4 wire spiral

Exceeds SAE 100R12 sizes 3/4" and 1"

Exceeds EN856 4SH sizes 1 1/2" and 2"

ISO 18752/CC all sizes

Meets flame resistance acceptance designation US MSHA IC-152/16

Construction:

Tube – Oil resistant synthetic rubber and biodegradable hydraulic fluids.

Reinforcement – Four high tensile steel spirals (4S).

Cover – Abrasion, ozone and hydrocarbon resistant synthetic rubber.

Branding – ALFAGOMMA ALFABIOTECH 4K MINETUFF ... WP 28 MPa (4000 PSI) - ISO 18752/CC - MSHA IC-152/16 - MADE IN ITALY

Applications:

Developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

Temperature – -40 °C +121 °C (-40 °F +250 °F)

Length – Random up to 1" - 200 feet from 1 1/4" to 2"

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working [†] Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations		
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Two-Piece Couplings	
											Ferrule Non-Skive	Ferrule Interlock
ABT4K	12	3/4	19.0	1.16	29.5	4,000	4.7	120	0.83	D	AF4	AS4
ABT4K	16	1	25.4	1.48	37.5	4,000	5.9	150	1.10	D	AF4	AS4
ABT4K	20	1 1/4	31.8	1.80	45.7	4,000	10.0	230	1.51		AF4	AS4
ABT4K	24	1 1/2	38.1	2.04	51.8	4,140	16.5	420	1.92			XF2
ABT4K	32	2	50.8	2.63	66.8	4,000	20.9	530	3.01			XF2

[†] Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Alfabiotech ABT5K Hydraulic Hose



Alfabiotech 5000 - MINETUFF - ABT5K

NEW

ABT5K - 4 or 6 wire spiral

Exceeds EN856 4SP sizes 5/8", 3/4" and 1"

Exceeds EN856 4SH sizes 1 1/4"

Exceeds SAE 100R13 sizes 1 1/2" and 2"

ISO 18752/CC all sizes

Meets flame resistance acceptance designation US MSHA IC-152/16



Construction:

Tube – Oil resistant synthetic rubber and biodegradable hydraulic fluids.

Reinforcement – Four/six high tensile steel spirals (4S/6S).

Cover – Abrasion, ozone and hydrocarbon resistant synthetic rubber.

Branding – ALFAGOMMA ALFABIOTECH 5K MINETUFF ... WP 35 MPa (5000 PSI) - ISO 18752/CC - MSHA IC-152/16 - MADE IN ITALY

Applications:

Developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

Temperature – -40 °C +121 °C (-40 °F +250 °F)

Length – Random up to 1" - 200 feet from 1 1/4" to 1 1/2" - 100 feet from 2" to 2 1/2"

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations			
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Two-Piece Couplings		
											Ferrule Skive	Ferrule Interlock	
ABT5K	12	3/4	19.0	1.22	31.0	5,000	5.9	150	0.83	F		AS4	XF2
ABT5K	16	1	25.4	1.48	37.6	5,000	7.1	180	1.13	F		AS2 AS4	XF2
ABT5K	20	1 1/4	31.8	1.75	44.4	5,000	11.0	480	1.52	F	M		XF2
ABT5K	24	1 1/2	38.1	2.22	56.5	5,000	19.7	500	3.01	F			XF1
ABT5K	32	2	50.8	2.76	70.2	5,000	21.5	550	4.20		M		XF1
ABT5K	40	2 1/2	63.0	3.26	82.8	5,000	32.3	820	5.08				
ABT5K	48	3	76.0	3.76	95.6	5,000*	35.4	900	5.33				

[†] Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

* Safety factor 2.5:1.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Alfabiotech 5000 Plus - MINETUFF - ABTP5K



Construction:

Tube – Oil resistant synthetic rubber and biodegradable hydraulic fluids.

Reinforcement – Four high tensile steel spirals (4S).

Cover – Abrasion, ozone and hydrocarbon resistant synthetic rubber.

Branding – ALFAGOMMA ALFABIOTECH 5K PLUS MINETUFF
... WP 38 MPa (5500 PSI) - exceeds ISO 18752/CC - SAE 100 R13 - MSHA IC-152/16 - MADE IN ITALY

Applications:

Developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

Temperature – -40 °C +121 °C (-40 °F +250 °F)

Length – Random

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations	
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings	
										Ferrule Skive	Ferrule Interlock
ABTP5K	12	3/4	20	1.24	31.4	5,500	7.09	180	0.89	AS4	XF2
ABTP5K	16	1	25	1.50	38.0	5,500	8.30	210	1.30		XF2

[†] Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Alfabiotech ABT6K Hydraulic Hose



Alfabiotech 6000 - MINETUFF - ABT6K

NEW

ABT6K - 4 or 6 wire spiral

Exceeds EN856 4SP sizes 1/4", 3/8" and 1/2"

Exceeds EN856 4SH sizes 3/4" and 1"

Exceeds SAE 100R15 sizes 1", 1 1/4", 1 1/2" and 2"

ISO 18752/CC all sizes

Meets flame resistance acceptance designation US MSHA IC-152/16



Construction:

Tube – Oil resistant synthetic rubber and biodegradable hydraulic fluids.

Reinforcement – Four/six high tensile steel spirals (4S/6S).

Cover – Abrasion, ozone and hydrocarbon resistant synthetic rubber.

Branding – ALFAGOMMA ALFABIOTECH 6K MINETUFF
... WP 45 MPa (6550 PSI) - ISO 18752/CC- MSHA IC-152/16 - MADE IN ITALY

Applications:

Developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

Temperature – -40 °C +121 °C (-40 °F +250 °F)

Length – Random up to 1" - 200 feet from 1 1/4" to 1 1/2" - 100 feet for 2"

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations		
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Two-Piece Couplings	
											Ferrule Non-Skive	Ferrule Interlock
ABT6K	4	1/4	6.4	0.68	17.3	6,525	2.4	60	0.32		AS4	
ABT6K	6	3/8	9.5	0.79	20.1	6,450	3.0	75	0.37		AF4	
ABT6K	8	1/2	12.7	0.91	23.0	6,000	3.5	90	0.50		AF4	
ABT6K	10	5/8	15.9	1.24	31.4	6,000	7.1	180	0.81			XF1
ABT6K	12	3/4	19.0	1.23	31.2	6,000	8.3	210	0.99	F		XF2
ABT6K	16	1	25.4	1.50	38.2	6,000	9.8	250	1.35	F		XF2
ABT6K	20	1 1/4	31.8	1.94	49.3	6,000	17.5	445	2.33	F		XF1
ABT6K	24	1 1/2	38.1	2.22	56.5	6,000	22.0	560	3.01			XF1
ABT6K	32	2	51.0	2.80	71.0	6,000	25.0	635	4.37			ZF1

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



Alfabiotech 5000 - SUPERTUFF - ABT5KST



NEW

ABT5K - 4 or 6 wire spiral

Exceeds EN856 4SP sizes 5/8", 3/4" and 1"

Exceeds EN856 4SH sizes 1 1/4"

Exceeds SAE 100R13 sizes 1 1/2" and 2"

ISO 18752/CC all sizes

Meets flame resistance acceptance designation US MSHA IC-152/16

Construction:

Tube – Oil resistant synthetic rubber and biodegradable hydraulic fluids.

Reinforcement – Four/six high tensile steel spirals (4S/6S).

Cover – Abrasion, ozone and hydrocarbon resistant synthetic rubber: Special "supertuff" cover for excellent abrasion resistance and long service life in heavy duty applications.

Branding – ALFAGOMMA ALFABIOTECH 5K SUPERTUFF ...
WP 35 MPa (5000 PSI) - ISO 18752/CC - MSHA IC-152/16 -
MADE IN ITALY

Applications:

Developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

Temperature – -40 °C +121 °C (-40 °F +250 °F)

Length – Random up to 1" - 200 feet from 1 1/4" to 2"

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working [†] Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations			
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Two-Piece Couplings		Ferrule Interlock
											Ferrule Skive		
ABT5KST	12	3/4	19.0	1.24	31.6	5,000	5.9	150	0.87	F		AS4	XF2
ABT5KST	16	1	25.4	1.50	38.2	5,000	7.1	180	1.14	F		AS2AS4	XF2
ABT5KST	20	1 1/4	31.8	1.75	44.4	5,000	11.0	280	2.00	F	M		XF2
ABT5KST	24	1 1/2	38.1	2.22	56.5	5,000	18.7	475	3.09	F			XF1
ABT5KST	32	2	50.8	2.76	70.2	5,000	21.5	545	4.28		M		XF1

[†] Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Alfabiotech ABT6KST Hydraulic Hose



Alfabiotech 6000 - SUPERTUFF - ABT6KST

NEW

ABT6K - 4 or 6 wire spiral

Exceeds EN856 4SP sizes 1/4", 3/8" and 1/2"

Exceeds EN856 4SH sizes 3/4" and 1"

Exceeds SAE 100R15 sizes 1", 1 1/4", 1 1/2" and 2"

ISO 18752/CC all sizes

Meets flame resistance acceptance designation US MSHA IC-152/16



Construction:

Tube – Oil resistant synthetic rubber and biodegradable hydraulic fluids.

Reinforcement – Four/six high tensile steel spirals (4S/6S).

Cover – Abrasion, ozone and hydrocarbon resistant synthetic rubber: Special "supertuff" cover for excellent abrasion resistance and long service life in heavy duty applications.

Branding – ALFAGOMMA ALFABIOTECH 6K SUPERTUFF
... WP 45 MPa (6550 PSI) - ISO 18752/CC- MSHA IC- 152/16 -
MADE IN ITALY

Applications:

Developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

Temperature – -40 °C +121 °C (-40 °F +250 °F)

Length – Random up to 1" - 100 feet from 1 1/4" to 1 1/2"

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working [†] Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations		
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Two-Piece Couplings	
											Ferrule Skive	Ferrule Interlock
ABT6KST	4	1/4	6.4	0.68	17.3	6,550	2.36	60	0.32		AS4	
ABT6KST	6	3/8	9.5	0.79	20.1	6,450	2.95	75	0.37		AS4	
ABT6KST	8	1/2	12.7	0.91	23.0	6,000	3.54	90	0.50		AS4	XF2
ABT6KST	10	5/8	15.9	1.11	28.2	6,000	7.09	180	0.81			XF1
ABT6KST	12	3/4	19.0	1.24	31.4	6,000	8.27	210	0.99	F		XF2
ABT6KST	16	1	25.4	1.50	38.2	6,000	9.84	250	1.36	F		XF2
ABT6KST	20	1 1/4	31.8	1.94	49.3	6,000	17.52	445	2.33	F		XF1
ABT6KST	24	1 1/2	38.1	2.22	56.5	6,000	22.00	560	3.01			XF1
ABT6KST	32	2	51.0	2.80	71.0	6,000	25.0	635	4.37			ZF1

[†] Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

ALFAGOMMA Alfatech Hoses Make Hydraulic Hose Selection Easier

The proprietary Alfatech Series of hoses from ALFAGOMMA, designed with the application engineer in mind, greatly simplifies system routing by offering the same working pressure ratings for all sizes of the respective hose. Additionally, Alfatech hoses offer several performance advantages, including:

Greater design and installation flexibility – identical working pressure ratings for all sizes of a given series makes for easier design and installation.

Extraordinary flexibility – excellent bend radius properties... makes installation easier.

Requires less hose footage – tighter bends mean less hose is needed for a typical job.

Reduced inventory requirements – reduced hose usage and continuity of working pressure ratings throughout each series means reduced inventory requirements.

Exceptionally long service life – superior performance under flex-impulse conditions... tested with ALFAGOMMA couplings for more than 1,000,000 impulse cycles at a minimum of 120% of rated working pressure at 250°F. (121°C).

Clear branding and coding – makes selection and identification easier.



Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Alfatech 3000 MINETUFF Hydraulic Hose



One and two wire braid reinforced hydraulic hose with MINETUFF Cover – AT3KMT

AT3KMT – One and two wire braid

Meets or exceeds the working and burst pressure requirements of SAE 100 R17 –
Meets or exceeds EN 857 1SC (Sizes 04 and 06)
– Meets flame resistance acceptance designation US MSHA IC-152/8.



Construction:

Tube – Synthetic rubber, black... oil-resistant.

Reinforcement – One or two layers of high tensile steel wire braid reinforcement.

Cover – Synthetic rubber, black... oil, fuel, weather, ozone and abrasion-resistant.

Branding – ALFAGOMMA AT3K MINETUFF ID...WP MPa... MPa... SAE 100R17 - DN... MSHA IC-152/8 - Q/YR

Applications:

Medium pressure service with petroleum based hydraulic fluids such as hot oil, grease, lubricants, and crude oils, air and water. Developed to withstand punishing conditions and to meet increasing pressure pulsing, flexing and temperature demands not currently covered by International specifications.

Features extraordinary flexibility, excellent bend radii properties, superior performance under flex-impulse conditions, and exceptional long life. Tested over 1,000,000 impulse cycles at 120% of rated working pressure.

Temperature Range: -40°F (-40°C) to 212°F (100°C) constant operation.

Maximum operating temperature: 250°F (121°C). **Air maximum temperature:** 175°F (80°C).

Note: Operating temperatures in excess of 212°F (100°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations			
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Two-Piece Couplings		
											Ferrule Non-Skive	Ferrule Skive	
AT3KMT	04	1/4	6	0.48	12.1	3,250	2.0	50	0.11	B	Q	AF1	
AT3KMT	05	5/16	8	0.56	14.1	3,100	2.2	55	0.13	B	Q	AF1	
AT3KMT	06	3/8	10	0.61	15.6	3,000	2.6	65	0.17	B	Q	AF1	
AT3KMT	08	1/2	13	0.77	19.5	3,000	3.6	90	0.24	B	Q	AF1	
AT3KMT	10	5/8	16	0.93	23.7	3,000	4.2	105	0.41	B	C	AF1	AS2
AT3KMT	12	3/4	19	1.09	27.7	3,500	5.0	125	0.53	B	C	AF1	AS2
AT3KMT	16	1	25	1.40	35.6	3,000	6.0	150	0.83	B	C	AF1	AS2

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Two wire braid and four spiral wire reinforced hydraulic hose with MINETUFF cover – AT4KMT



AT4KMT – Two wire braid, four wire spiral

Specification Reference:
 EN 857 2SC (1/2, 5/8),
 SAE 100 R12 (3/4, 1),
 EN 856 4SH (1 1/2, 2),
 – Meets flame resistance
 acceptance designation US MSHA
 IC-152/8.

Construction:

Tube – Synthetic rubber, black... oil-resistant.

Reinforcement – Two high-tensile steel braids or four high-tensile steel spirals.

Cover – Synthetic rubber, black... oil, fuel, weather, ozone and abrasion-resistant.

Branding – ALFAGOMMA AT4K MINETUFF ID...WP
 MPa... MPa... MSHA IC-152/8 - Q/YR

Applications:

Extremely high pressure high impulse service with petroleum based hydraulic fluids such as hydrostatic transmissions. Developed to withstand punishing conditions and to meet increasing pressure pulsing, flexing and temperature demands not currently covered by International specifications.

Features extraordinary flexibility, excellent bend radii properties, superior performance under flex-impulse conditions, and exceptional long life. Tested over 1,000,000 impulse cycles at 120% of rated working pressure.

Temperature Range: -40°F (-40°C) to 250°F (100°C) constant operation, 212°F (100°C) for braided hoses.

Maximum operating temperature: 250°F (121°C). **Air maximum temperature:** 175°F (80°C).

Note: Operating temperatures in excess of 250°F (121°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations		
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Two-Piece Couplings	
											Ferrule Non-Skive	Ferrule Interlock
AT4KMT	08	1/2	13	0.81	20.6	4,500	3.6	90	0.35	D	AF4	
AT4KMT	10	5/8	16	0.93	23.7	4,000	4.0	101	0.41	D	AF4	XF2
AT4KMT	12	3/4	19	1.21	30.7	4,000	5.2	130	0.80	D	AF4	XF2
AT4KMT	16	1	25	1.50	38.0	4,000	6.0	150	1.19	D	AF4	XF2
AT4KMT	20	1 1/4	32	1.87	47.5	4,000	9.2	230	1.78			XF2
AT4KMT	24	1 1/2	38	2.11	53.5	4,200	18.0	450	2.21	F		XF2
AT4KMT	32	2	51	2.68	68.1	4,000	23.6	590	3.15		H	XF2

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Alfatech 5000 MINETUFF Hydraulic Hose



Two wire braid and four or six wire spiral reinforced hydraulic hose with MINETUFF cover – AT5KMT

AT5KMT – Two wire braid, four or six wire spirals

Specification Reference:

EN 856 4SP (5/8, 3/4),

EN 856 4SH (1),

SAE 100 R13 (1 1/4, 1 1/2, 2)

– Meets flame resistance acceptance designation
US MSHA IC-152/8.



Construction:

Tube – Synthetic rubber, black... oil-resistant.

Reinforcement – Four or six layers of spirally wrapped high tensile steel wire reinforcement separated by synthetic rubber cushion on a fabric layer.

Cover – Synthetic rubber, black... oil, fuel, weather, ozone and abrasion-resistant.

Branding – ALFAGOMMA AT5K MINETUFF ID...WP
MPa MSHA IC-152/8 - Q/YR

Applications:

Extremely high pressure high impulse service with petroleum based hydraulic fluids such as hydrostatic transmissions. Developed to withstand punishing conditions and to meet increasing pressure pulsing, flexing and temperature demands not currently covered by International specifications.

Features extraordinary flexibility, excellent bend radii properties, superior performance under flex-impulse conditions, and exceptional long life. Tested over 1,000,000 impulse cycles at 120% of rated working pressure.

Temperature Range: -40°F (-40°C) to 250°F (121°C) constant operation, 212°F (100°C) for braided hoses.

Maximum operating temperature: 250°F (121°C). **Air maximum temperature:** 175°F (80°C).

Note: Operating temperatures in excess of 250°F (121°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations		
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Two-Piece Couplings	
											Ferrule Skive	Ferrule Interlock
AT5KMT	08	1/2	13	0.81	20.7	5,000	4.0	101	0.53		AS2	XF2
AT5KMT②	10	5/8	16	1.11	28.2	5,000	5.0	125	0.71		AS2	XF2
AT5KMT②	12	3/4	19	1.27	32.2	5,510	5.6	140	0.97	F	AS4	XF2
AT5KMT②	16	1	25	1.52	38.7	5,510	7.6	190	1.32	F		XF1
AT5KMT	20	1 1/4	32	1.79	45.5	5,000	9.6	240	1.66	F	M	XF1
AT5KMT	24	1 1/2	38	2.26	57.3	5,000	19.0	475	3.25	F		XF1
AT5KMT	32	2	51	2.80	71.1	5,000	21.8	545	4.41	M		XF1

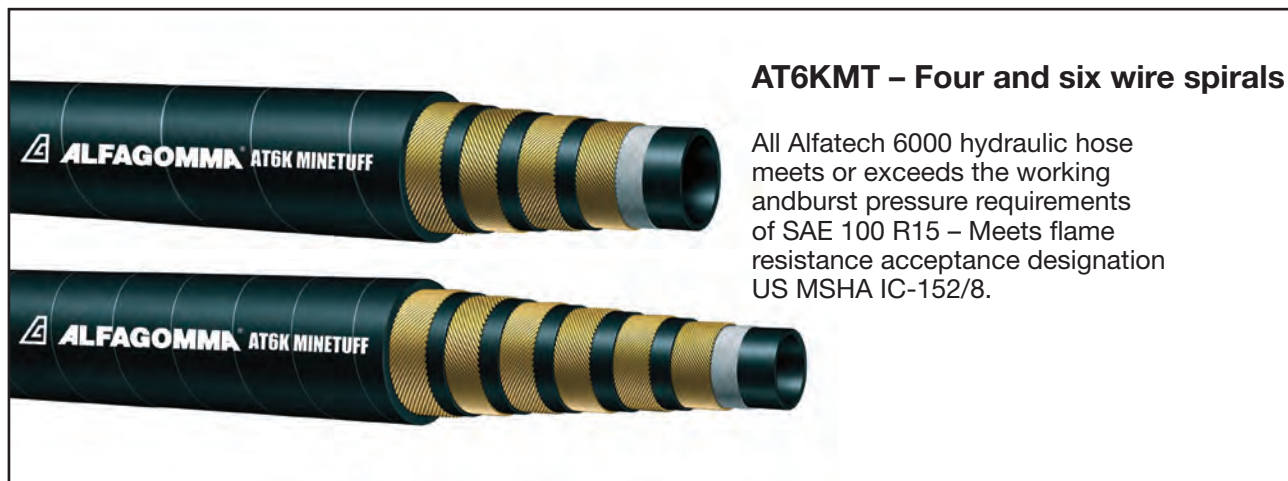
① Double wire braid. ② Four wire spiral reinforced. All others are six wire spiral reinforced.

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Four and six wire spiral reinforced hydraulic hose with MINETUFF cover – AT6KMT



AT6KMT – Four and six wire spirals

All Alfatech 6000 hydraulic hose meets or exceeds the working and burst pressure requirements of SAE 100 R15 – Meets flame resistance acceptance designation US MSHA IC-152/8.

Construction:

Tube – Synthetic rubber, black... oil-resistant.

Reinforcement – Four or six layers of spirally wrapped high tensile steel wire reinforcement separated by synthetic rubber cushion on a fabric layer.

Cover – Synthetic rubber, black... oil, fuel, weather, ozone and abrasion-resistant.

Branding – ALFAGOMMA AT6K MINETUFF ID...WP 42 MPa BP 168 MPa MSHA IC-152/8 - Q/YR

Applications:

Extremely high pressure high impulse service with petroleum based hydraulic fluids such as hydrostatic transmissions. Developed to withstand punishing conditions and to meet increasing pressure pulsing, flexing and temperature demands not currently covered by International specifications.

Features extraordinary flexibility, excellent bend radii properties, superior performance under flex-impulse conditions, and exceptional long life. Tested over 1,000,000 impulse cycles at 120% of rated working pressure at 250°F (121°C).

Temperature Range: -40°F (-40°C) to 250°F (121°C) constant operation.

Maximum operating temperature: 250°F (121°C).

Air maximum temperature: 175°F (80°C).

Note: Operating temperatures in excess of 250°F (121°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings
										Ferrule Interlock
AT6KMT①	12	3/4	19.0	1.27	32.2	6,000	10.7	267	1.07	XF2
AT6KMT①	16	1	25.0	1.52	38.7	6,000	11.2	280	1.42	
AT6KMT	20	1 1/4	32.0	1.96	49.8	6,000	11.2	280	1.66	XF1
AT6KMT	24	1 1/2	38.0	2.26	57.3	6,000	12.6	315	3.25	XF1
AT6KMT	32	2	50.8	2.83	72.0	6,000	24.0	600	4.74	ZF1

① Four wire spiral reinforced. All others are six wire spiral reinforced.

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

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HOSES
C121
C122
C12A
C124
C126
TWO PIECE FERRULES (STANDARD & INTERLOCK)
H12 STANDARD INSERTS
H14 AND H1T INTERLOCK INSERTS
CRIMPERS

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

SUPERTUFF cover hydraulic hose helps reduce downtime

In order to help customers significantly reduce downtime costs created by the need to replace hoses on hydraulic equipment as a result of premature failure due to wire reinforcement exposure, ALFAGOMMA has developed SUPERTUFF, a new cover material.

All of the hydraulic hoses illustrated in this catalog are available with the new SUPERTUFF cover. Contact Kuriyama of America for details.

SUPERTUFF dramatically increases resistance to external damage from both the working environment and routing of hoses in areas which can be exposed to severe abrasion or impact.

SUPERTUFF's abrasion resistance is derived from a low coefficient of friction allowing it to slide over rough surfaces. Tests made to European and US specifications show that SUPERTUFF outperforms standard rubber covers as well as polyurethane covers by a huge margin. These and other technical details are available upon request.

ALFAGOMMA SUPERTUFF should be of interest to manufacturers of machinery that utilizes flexible hydraulic lines that are exposed to extreme external conditions. Even standard hose installations which have previously used a plastic spiral strip over the hose cover can benefit from using a hose with a SUPERTUFF cover.

A few of the many typical applications where this new product can prolong the life expectancy of hydraulic hose are:

APPLICATION	BENEFITS OF SUPERTUFF COVER
Mining & Earthmoving Equipment	SUPERTUFF resists abrasion
Forestry Equipment	SUPERTUFF resists impact damage
Offshore Oil Rigs	SUPERTUFF resists high ozone & UV exposure
Sub Sea Applications	SUPERTUFF is water repellent – no absorption
Equipment for the Chemical Process Industries	SUPERTUFF resists most chemicals*

Loosely applied protective coverings that have traditionally been used can expose weak points and become detached during impulse, abrasion or impact. SUPERTUFF is not a separate layer of material added to an existing hose. It is an integrally bonded part of the hose itself. The cover adhesion levels of SUPERTUFF exceed European Norms and, because it is bonded, SUPERTUFF will contract and expand under impulse pressure together with the rest of the hose without becoming detached.



ALFAGOMMA's Hydraulic Hose South Plant,
Castelnuovo Vomano (Teramo), Italy.



ALFAGOMMA's Alfatechnology Plant,
Bellusco (Milan), Italy.

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Alfatech 3000 SUPERTUFF Hydraulic Hose



Single and double compact wire braid hydraulic hose with SUPERTUFF cover – AT3KST

AT3KST – Single or double wire braid

Meets or exceeds SAE 100 R17, meets or exceeds EN 857 1SC (Sizes -04 and -06)
– Meets flame resistance acceptance designation US MSHA IC-152/8.



Construction:

Tube – Synthetic rubber, black.

Reinforcement – One or two layer high tensile steel wire braid.

Cover – Synthetic rubber, black... weather, oil, fuel, ozone and abrasion-resistant.

Branding – ALFAGOMMA AT3K SUPERTUFF ID ...WP ... MPa (...PSI) – SAE 100R17 – DN ... MSHA IC-152/8 – Q/YR

Note: Sizes -04 and -06 include “EN 857 1SC” on layline.

Applications:

Medium pressure service with petroleum-based hydraulic fluids, hot oil, grease, lubricants and crude oils, air and water. For air or gas application above 250 PSI (1.7 Mpa) the cover should be pin-pricked.

Temperature Range: -40°F (-40°C) to 212°F (100°C) constant operation.

Maximum operating temperature: 257°F (125°C). **Air maximum temperature:** 160°F (70°C).

Note: Operating temperatures in excess of 212°F (100°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working [†] Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations			
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Two-Piece Couplings		
											Ferrule Non-Skive	Ferrule Skive	
AT3KST	04	1/4	6.4	0.48	12.1	3,250	2.0	50	0.10	B	Q	AF1	
AT3KST	06	3/8	9.5	0.61	15.6	3,000	2.5	65	0.18	B	Q	AF1	
AT3KST	08	1/2	12.7	0.77	19.5	3,000	3.5	90	0.28	B	Q	AF1	
AT3KST❶	12	3/4	19.0	1.09	27.7	3,000	5.0	125	0.59	B	C	AF1	AS2
AT3KST❶	16	1	25.4	1.50	38.1	3,000	6.0	150	1.05	B	C	AF1	AS2

[†] Minimum burst pressure 4-to-1 safety factor.

❶ Double steel wire braid . . . all others are single wire braid.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Two wire braid or four wire spiral reinforced hydraulic hose with SUPERTUFF cover – AT4KST



AT4KST – Double wire braid and Four wire spiral

Specification Reference:

EN 857 2SC (1/2),

SAE 100 R12 (5/8, 3/4, 1),

EN 856 4SH (1 1/2, 2)

– Meets flame resistance acceptance designation US MSHA IC-152/8.

Construction:

Tube – Synthetic rubber, black... oil-resistant.

Reinforcement – Double high tensile steel wire compact braid or four layers of spirally wrapped high tensile steel wire reinforcement separated by synthetic rubber cushion on a fabric layer.

Cover – Synthetic rubber, black... oil, fuel, weather, ozone and abrasion-resistant.

Branding – ALFAGOMMA AT4K SUPERTUFF ID...WP 28 MPa BP 112 MPa MSHA IC-152/8 – Q/YR

Applications:

High pulsating pressure service with petroleum based hydraulic fluids. Developed to withstand punishing conditions and to meet increasing pressure pulsing, flexing and temperature demands not currently covered by International specifications.

Features extraordinary flexibility, excellent bend radii properties, superior performance under flex-impulse conditions, and exceptional long life. Tested over 1,000,000 impulse cycles at 133% of rated working pressure at 250°F (121°C).

Temperature Range: -40°F (-40°C) to 250°F (121°C) constant operation.

Maximum operating temperature: 250°F (121°C). **Air maximum temperature:** 175°F (80°C).

Note: Operating temperatures in excess of 250°F (121°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations		
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Two-Piece Couplings	
											Ferrule Non-Skive	Ferrule Interlock
AT4KST ①	08	1/2	12.7	0.81	20.6	4,500	3.5	90	0.35	D	AF4	XF2
AT4KST ①	10	5/8	15.9	1.08	27.4	4,000	4.0	100	0.74	D	AF4	XF2
AT4KST	12	3/4	19.0	1.21	30.7	4,000	5.0	125	0.87	D	AF4	XF2
AT4KST	16	1	25.4	1.50	38.0	4,000	6.0	150	1.28	D	AF4	XF2
AT4KST	20	1 1/4	31.8	1.87	47.5	4,000	9.0	230	1.81			XF2
AT4KST	24	1 1/2	38.1	2.10	53.5	4,000	17.7	450	2.22			XF2
AT4KST	32	2	50.8	2.68	68.1	4,000	23.4	595	3.23			XF2

① Double steel wire braid. All others are four wire spiral reinforced.

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Alfatech 5000 SUPERTUFF Hydraulic Hose



Two wire braid and four or six wire spiral reinforced hydraulic hose with SUPERTUFF cover – AT5KST

AT5KST – Double wire braid

AT5KST – Four wire spiral

AT5KST – Six wire spiral

Specification Reference:

EN 856 4SP (5/8, 3/4), EN 856 4SH (1),

SAE 100 R13 (1 1/4, 1 1/2, 2)

– Meets flame resistance acceptance designation US MSHA IC-152/8.



Construction:

Tube – Synthetic rubber, black... oil-resistant.

Reinforcement – Double high tensile steel wire braid or four or six layers of spirally wrapped high tensile steel wire reinforcement separated by synthetic rubber cushion on a fabric layer.

Cover – Synthetic rubber, black... oil, fuel, weather, ozone and abrasion-resistant.

Branding – ALFAGOMMA AT5K SUPERTUFF ID...WP
35 MPa BP 140 MPa MSHA IC-152/8 - Q/YR

Applications:

Extremely high pulsating pressure service with petroleum based hydraulic fluids. Developed to withstand punishing conditions and to meet increasing pressure pulsing, flexing and temperature demands not currently covered by International specifications.

Features extraordinary flexibility, excellent bend radii properties, superior performance under flex-impulse conditions, and exceptional long life. Tested over 1,000,000 impulse cycles at 120% of rated working pressure at 250°F (121°C).

Temperature Range: -40°F (-40°C) to 250°F (121°C) constant operation.

Maximum operating temperature: 250°F (121°C). **Air maximum temperature:** 175°F (80°C).

Note: Operating temperatures in excess of 250°F (121°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working [†] Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations	
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings	
										Ferrule Skive	Ferrule Interlock
AT5KST❶	08	1/2	12.7	0.87	22.2	5,000	6.0	150	0.52	AS2	
AT5KST❷	10	5/8	15.9	1.11	28.2	5,000	5.0	125	0.75	AS4	XF2
AT5KST❷	12	3/4	19.0	1.27	32.2	5,000	5.5	140	1.08	AS4	XF2
AT5KST❷	16	1	25.4	1.53	38.7	5,000	7.5	190	1.35		XF2
AT5KST	20	1 1/4	31.8	1.79	45.5	5,000	18.0	460	1.71		XF1
AT5KST	24	1 1/2	38.1	2.26	57.3	5,000	18.7	475	3.25		XF1
AT5KST	32	2	50.8	2.80	71.1	5,000	21.5	545	4.57		XF1

① Double wire braid. ② Four wire spiral reinforced. All others are six wire spiral reinforced.

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Four and six wire spiral reinforced hydraulic hose with SUPERTUFF cover – AT6KST



AT6KST – Four and six wire spiral

All Alfatech 6000 hydraulic hose meets or exceeds the working and burst pressure requirements of SAE 100 R15 – Meets flame resistance acceptance designation US MSHA IC-152/8.

Construction:

Tube – Synthetic rubber, black... oil-resistant.

Reinforcement – Four or six layers of spirally wrapped high tensile steel wire reinforcement separated by synthetic rubber cushion on a fabric layer.

Cover – Synthetic rubber, black... oil, fuel, weather, ozone and abrasion-resistant.

Branding – ALFAGOMMA AT6K SUPERTUFF ID...WP 42 MPa BP 168 MPa MSHA IC-152/8 - Q/YR

Applications:

Extremely high pressure high impulse service with petroleum based hydraulic fluids such as hydrostatic transmissions. Developed to withstand punishing conditions and to meet increasing pressure pulsing, flexing and temperature demands not currently covered by International specifications.

Features extraordinary flexibility, excellent bend radii properties, superior performance under flex-impulse conditions, and exceptional long life. Tested over 1,000,000 impulse cycles at 120% of rated working pressure at 250°F (121°C).

Temperature Range: -40°F (-40°C) to 250°F (121°C) constant operation.

Maximum operating temperature: 250°F (121°C). **Air maximum temperature:** 175°F (80°C).

Note: Operating temperatures in excess of 250°F (121°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working [†] Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings
										Ferrule Interlock
AT6KST ①	10	5/8	15.9	1.14	28.6	6,000	10.0	250	0.88	XF2
AT6KST ①	12	3/4	19.0	1.27	32.2	6,000	10.5	267	1.08	XF2
AT6KST ①	16	1	25.4	1.52	38.7	6,000	11.0	280	1.35	XF2

^① Four wire spiral reinforced. All others are six wire spiral reinforced.

[†] Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

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Smooth PTFE Stainless Steel Braid – Standard Duty – TR14TB

NEW

FDA US Pharmacopeia - Class VI
SAE 100R14

TR14TB

High Tensile Stainless Steel Braid
AISI 304



Construction:

Tube – Smooth PTFE - high mechanical and vibration resistance, low permeability, dielectrical, fire resistant, food grade (FDA, DVGW, BFR compliant). Chemically inert, non sticking, ozone and weather resistant.

Reinforcement – High tensile stainless steel braid AISI 304.

Applications:

Compressed air, gas, steam, fuel, oil, chemical and pharmaceutical products, particularly suitable for steam piping on injection moulding machines, diathermic oil installations, charging lines for cryogenic gas, compressor discharge lines, automotive, pharmaceutical and food sectors. Solvents, pigments and paint transfer lines. Hydraulic lines in power steering marine applications. Not suitable for molten alkali metals and halogens at high temperature.

Temperature Range: -76°F (-60°C) to 500°F (260°C) constant operation.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working [†] Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings Ferrule Non-Skive
TR14TB	03	3/16	5	0.31	7.8	3,000	2.0	51	0.06	AFT
TR14TB	04	1/4	6	0.34	8.6	2,600	3.0	76	0.06	AFT
TR14TB	05	5/16	8	0.46	11.6	2,250	4.0	102	0.09	AFT
TR14TB	06	3/8	10	0.50	12.7	2,000	5.0	127	0.10	AFT
TR14TB	08	1/2	13	0.61	15.4	1,750	5.5	140	0.13	AFT
TR14TB	10	5/8	16	0.72	18.4	1,500	6.5	165	0.18	AFT
TR14TB	12	3/4	19	0.87	22.1	1,250	8.0	203	0.22	AFT
TR14TB	16	1	25	1.17	29.8	750	12.0	305	0.35	AFT

[†] Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Single wire braid light weight cleaning hose on easy-to-handle reels – TAJ3BK/TAJ3BU



**TAJ3BK (Black) –
Single wire braid**

**TAJ3BU (Blue) –
Single wire braid**

Construction:

Tube – Synthetic rubber, black... hot water-resistant.

Reinforcement – High tensile steel wire braid.

Cover – Synthetic rubber, black or blue, non-marking... weather, oil, ozone and abrasion-resistant.

Branding – ALFAGOMMA ALFAJET 210 ID ...DN ... 210 Bar WP - 155°C

Applications:

High pressure cleaning hose. For heavy duty use with hot and cold water and detergent fluids, and high pressure cleaning equipment. Extremely flexible, light weight and easy to handle. Use bend restrictors to extend service life.

Not recommended for steam service.

Special identification with embossed layline.

BK = Black Cover

BU = Blue Cover

Temperature Range: -40°F (-40°C) to 300°F (155°C) constant operation.

Maximum operating temperature: 300°F (155°C). **Air maximum temperature:** 175°F (80°C).

Note: Operating temperatures in excess of 300°F (155°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working [†] Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations		
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		AlfaCrimp One-Piece	Two-Piece Couplings	
											Ferrule Non-Skive	
TAJ3BK	04	1/4	6.4	0.48	12.1	3,000	2.0	50	0.11	B		AF1
TAJ3BK	05	5/16	7.9	0.56	14.1	3,000	2.4	60	0.13	B		AF1
TAJ3BK	06	3/8	9.5	0.61	15.6	3,000	2.6	65	0.17	B		AF1
TAJ3BK	08	1/2	12.7	0.77	19.5	3,000	3.6	90	0.27	B		AF1
TAJ3BU	04	1/4	6.4	0.48	12.1	3,000	2.0	50	0.11	B		AF1
TAJ3BU	05	5/16	7.9	0.56	14.1	3,000	2.4	60	0.13	B		AF1
TAJ3BU	06	3/8	9.5	0.61	15.6	3,000	2.6	65	0.17	B		AF1
TAJ3BU	08	1/2	12.7	0.77	19.5	3,000	3.6	90	0.27	B		AF1

[†] Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Alfajet 400 Pressure Washer Hose



Double wire braid light weight cleaning hose on easy-to-handle reels – TAJ5BK/TAJ5BU

**TAJ5BK (Black) –
Double wire braid**



**TAJ5BU (Blue) –
Double wire braid**



Construction:

Tube – Synthetic rubber, black... hot water-resistant.

Reinforcement – Two high tensile steel wire braids.

Cover – Synthetic rubber, black or blue... weather, oil, ozone and abrasion-resistant.

Branding – ALFAGOMMA ALFAJET 400 ID ...DN ...
Bar WP - 155°C

High pressure cleaning hose. For heavy duty use with hot and cold water and detergent fluids, and high pressure cleaning equipment. Extremely flexible, light weight and easy to handle. Use bend restrictors to extend service life.

Not recommended for steam service.

Special identification with embossed layline.

BK = Black Cover

BU = Blue Cover

Applications:

Temperature Range: -40°F (-40°C) to 300°F (155°C) constant operation.

Maximum operating temperature: 300°F (155°C). **Air maximum temperature:** 175°F (80°C).

Note: Operating temperatures in excess of 300°F (155°C) may materially reduce the life of the hose.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max Working [†] Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs./ft.)	Coupling Recommendations	
		(in.)	(mm)	(in.)	(mm)		(in.)	(mm)		Two-Piece Couplings	
										Ferrule Non-Skive	Ferrule Skive
TAJ5BK	04	1/4	6.4	0.53	13.4	5,800	2.8	70	0.18	AF1	AS2
TAJ5BK	05	5/16	7.9	0.59	15.0	5,800	3.0	76	0.21	AF1	AS2
TAJ5BK	06	3/8	9.5	0.69	17.4	5,800	3.6	90	0.27	AF1	AS2
TAJ5BK	08	1/2	12.7	0.81	20.6	5,800	4.6	115	0.36	AF1	AS2
TAJ5BU	04	1/4	6.4	0.53	13.4	5,800	2.8	70	0.18	AF1	AS2
TAJ5BU	05	5/16	7.9	0.59	15.0	5,800	3.0	76	0.21	AF1	AS2
TAJ5BU	06	3/8	9.5	0.69	17.4	5,800	3.6	90	0.27	AF1	AS2
TAJ5BU	08	1/2	12.7	0.81	20.6	5,800	4.6	115	0.36	AF1	AS2

[†] Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

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TOP COAT

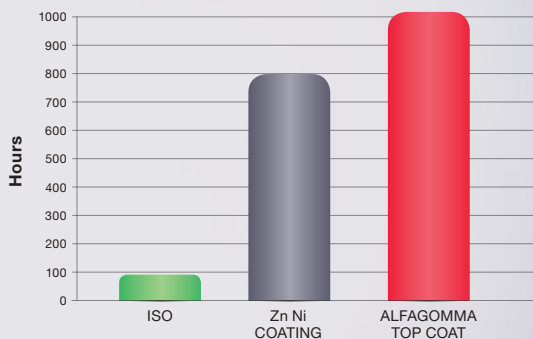
**ALFAGOMMA TOP COAT
OVER 10 TIMES HIGHER
THAN STANDARD**



TOP COAT

Resistance to red rust in salt fog
(test in compliance with ISO 9227)

- ▲ **TESTED IN ACCORDANCE WITH
ASTM B117-03 AND UNI ISO 9227
STANDARDS**
- ▲ **OVER 500 HOURS CORROSION
PREVENTION IN SALT SPRAY FOG TO
WHITE RUST**
- ▲ **MORE THAN 1000 HOURS CORROSION
RESISTANCE TO RED RUST**



One-Piece AlfaCrimp Fittings - C121 Index

NPTF



NPTF Solid Male 60° Seat 86



NPTF Male Swivel 60° Seat..... 86



NPSM Female Swivel 60° Seat..... 87

JIC



JIC Solid Male 37° 88



JIC Female Swivel 37° Seat..... 88



45° JIC Female Swivel 37° Seat
Solid Bent Tube 89



90° JIC Female Swivel 37° Seat
Solid Bent Tube 89

SAE



SAE Solid Male O-Ring Boss 87

ORFS



ORFS Solid Male 90



ORFS Female 90



45° ORFS Female
Solid Bent Tube 91



90° ORFS Female
Solid Bent Tube ISO 12151-1 91

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Fitting Configuration Chart



HOSES

C121

C122

C12A

C124

C126

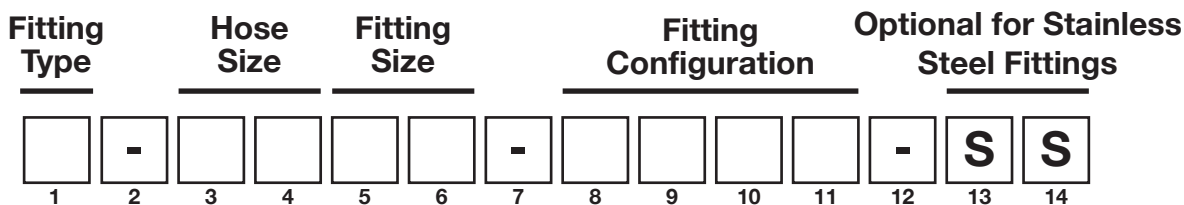
TWO PIECE FERRULES
(STANDARD & INTERLOCK)

H12 STANDARD
INSERTS

H14 AND H1T
INTERLOCK INSERTS

CRIMPERS

TECHNICAL
INFORMATION



1-Piece

B – C12A
Q – C121
C – C122
D – C124
F – C126
H – C12H
M – C12R

2-Piece

A – H12
X – H14
Z – H1T
K – H1K

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-14 or 7/8"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-14 or 7/8"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

Fitting Configuration Chart – Fitting Type Explanation

B – C12A – One piece non-skive crimp fitting for all braided hoses up to 1" ID.
Q – C121 – One piece non-skive crimp fitting for Alfatech 3000 (AT3KMT) hose and Alfajet 210 (TAJ3BK/TAJ3BU) 1/4" ID thru 1/2" ID only, while supplies last.

C – C122 – One piece non-skive crimp fitting for braided hose except Alfatech 3000 (AT3KMT) and Alfajet 210 (TAJ3BK/TAJ3BU) 1/4" ID thru 1/2" ID only, while supplies last.

D – C124 – One piece non-skive crimp fitting for SAE 100R1 and 100R2 wire braided hose and 4 wire spiral hose Flexor 12 (TR12) 1/2" ID thru 2" ID and Alfabiotech 3000 1 1/4" thru 2".

F – C126 – One piece non-skive crimp fitting for Flexor 12 (TR12), 4SH (T4SH), Flexor 13 (TR13), Alfatech 5000, Alfabiotech 5000 3/4" thru 1 1/2" and Alfabiotech 6000 3/4" thru 1 1/4".

H – C12H – One piece non-skive crimp fitting for 4SH (T4SH) in 2" size only.

M – C12R – One Piece non-skive crimp fitting for Flexor 13 (TR13) in 2" size only.

A – H12 – Two piece insert for all wire and textile braided hoses, thermoplastic hose, Flexor 4 and PTFE hose 3/16" thru 2" and Flexor 12 (TR12) 1/2" thru 1 1/2" along with some spiral wire reinforced hoses thru 1 1/2".

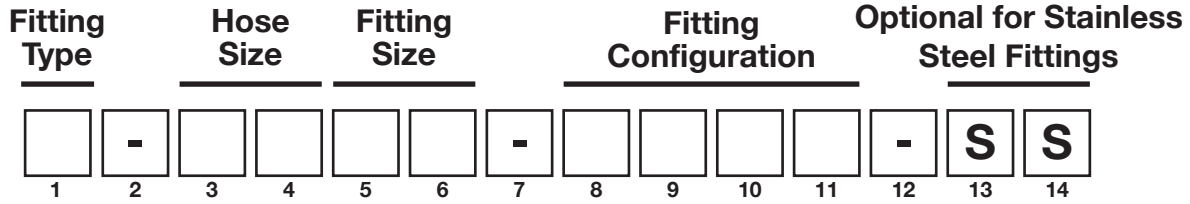
X – H14 – Two piece Interlock insert for spiral wire reinforced hoses. Requires both internal and external skiving and a XF1 or XF2 Interlock ferrule to perform properly.

Z – H1T – Two piece Interlock insert for Alfatech 6000 (AT6K) in 2" size only. Requires both internal and external skiving and a ZF1 Interlock ferrule to perform properly.

K – H1K – Two piece insert for Flexor Rig 48, 3" ID size only. Requires a KS1 skive ferrule to perform properly.

TYPE	SUFFIX	DESCRIPTION
NPTF	FNPR	Female National Pipe Rigid
	FPMS	Female Pipe Straight Mechanical Swivel
	FNPS	Female National Pipe Swivel
	MNPT	Male Pipe NPTF
	MNPS	Male National Pipe Swivel
	MPS9	Male Pipe Swivel 90 Degree
JIC	FJSH	Female JIC Single Hex Swivel
	FJDH	Female JIC Double Hex Swivel
	FJ45	Female JIC 45 Degree Swivel
	FJ9L	Female JIC 90 Degree Long Swivel
	FJ9M	Female JIC 90 Degree Medium Swivel
	FJ9S	Female JIC 90 Degree Short Swivel
	MJIC	Male JIC
SAE	FSAE	Female SAE Swivel
	MORB	Male O-Ring Boss
	MOBS	Male O-Ring Boss Swivel
	MBS9	Male O-Ring Boss Swivel 90 Degree
	MIFL	Male Inverted Flare
	MIF4	Male Inverted Flare 45 Degree
	MIF9	Male Inverted Flare 90 Degree
	MSAE	Male SAE
ORFS	FOFS	Female O-Ring Face Seal Swivel
	F030	Female O-Ring Face Seal 30 Degree Medium Swivel
	F045	Female O-Ring Face Seal 45 Degree Swivel
	F09L	Female O-Ring Face Seal 90 Degree Long Swivel
	F09M	Female O-Ring Face Seal 90 Degree Medium Swivel
	F09S	Female O-Ring Face Seal 90 Degree Short Swivel
	MOFS	Male O-Ring Face Seal
SAE Flange Code 61	C61S	Code 61 Flange Straight
	C612	Code 61 Flange 22 Degree
	C613	Code 61 Flange 30 Degree
	C614	Code 61 Flange 45 Degree
	C616	Code 61 Flange 60 Degree
	C619	Code 61 Flange 90 Degree
SAE Flange Code 62	C62S	Code 62 Flange Straight
	C624	Code 62 Flange 45 Degree
	C629	Code 62 Flange 90 Degree

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1-Piece

B – C12A
Q – C121
C – C122
D – C124
F – C126
H – C12H
M – C12R

2-Piece

A – H12
X – H14
Z – H1T
K – H1K

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
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-12 or 3/4"
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-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

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-32 or 2"
-40 or 2 1/2"
-48 or 3"

Fitting Configuration Chart – Fitting Type Explanation

B – C12A – One piece non-skive crimp fitting for all braided hoses up to 1" ID.

Q – C121 – One piece non-skive crimp fitting for Alfatech 3000 (AT3KMT) hose and Alfajet 210 (TAJ3BK/TAJ3BU) ¼" ID thru ½" ID only, while supplies last.

C – C122 – One piece non-skive crimp fitting for braided hose except Alfatech 3000 (AT3KMT) and Alfajet 210 (TAJ3BK/TAJ3BU) ¼" ID thru ½" ID only, while supplies last.

D – C124 – One piece non-skive crimp fitting for SAE 100R1 and 100R2 wire braided hose and 4 wire spiral hose Flexor 12 (TR12) ½" ID thru 2" ID and Alfabiotech 3000 1 ¼" thru 2".

F – C126 – One piece non-skive crimp fitting for Flexor 12 (TR12), 4SH (T4SH), Flexor 13 (TR13), Alfatech 5000, Alfabiotech 5000 ¾" thru 1 ½" and Alfabiotech 6000 ¾" thru 1 ¼".

H – C12H – One piece non-skive crimp fitting for 4SH (T4SH) in 2" size only.

M – C12R – One Piece non-skive crimp fitting for Flexor 13 (TR13) in 2" size only.

A – H12 – Two piece insert for all wire and textile braided hoses, thermoplastic hose, Flexor 4 and PTFE hose 3/16" thru 2" and Flexor 12 (TR12) ½" thru 1 ½" along with some spiral wire reinforced hoses thru 1 ½".

X – H14 – Two piece Interlock insert for spiral wire reinforced hoses. Requires both internal and external skiving and a XF1 or XF2 Interlock ferrule to perform properly.

Z – H1T – Two piece Interlock insert for Alfatech 6000 (AT6K) in 2" size only. Requires both internal and external skiving and a ZF1 Interlock ferrule to perform properly.

K – H1K – Two piece insert for Flexor Rig 48, 3" ID size only. Requires a K1 skive ferrule to perform properly.

TYPE	SUFFIX	DESCRIPTION
Caterpillar Flange	CFLS	CAT Flange Straight
	CFL4	CAT Flange 45 Degree
	CFL9	CAT Flange 90 Degree
BSP	BBAN	BSP Banjo
	FBC9	Female BSP Compact 90 Degree Swivel
	FBFS	Female BSP Flat Seat Swivel
	FBPO	Female British Pipe Parallel With O-Ring Swivel
	FB04	Female British Pipe Parallel With O-Ring 45 Degree Swivel
	FB09	Female British Pipe Parallel With O-Ring 90 Degree Swivel
	FBPP	Female British Pipe Parallel Swivel
	FBP4	Female British Pipe Parallel 45 Degree Swivel
	FBP9	Female British Pipe Parallel 90 Degree Swivel
	MBFS	Male BSP Flat Seat
	MBPP	Male British Pipe Parallel
	MBPT	Male British Pipe Tapered/JIS
Metric	FMFS	Female Metric French Swivel
	FMOH	Female Metric O-Ring Heavy Swivel
	FM4H	Female Metric O-Ring 45 Degree Heavy Swivel
	FM9H	Female Metric O-Ring 90 Degree Heavy Swivel
	FMOL	Female Metric O-Ring Light Swivel
	FM4L	Female Metric O-Ring 45 Degree Light Swivel
	FM6S	Female Metric 60 Degree Seat DIN 3863
	FM9L	Female Metric O-Ring 90 Degree Light Swivel
	MBAN	Metric Banjo
	MMFR	Male Metric French Solid
	MMSH	Male Metric Solid-Heavy
	MMSL	Male Metric Solid-Light
JIS	MSPS	Metric Stand Pipe Straight
	MSP4	Metric Stand Pipe 45 Degree
	MSP9	Metric Stand Pipe 90 Degree
	FJIS	Female JIS Swivel
	FJS4	Female JIS 45 Degree Swivel
	FJS9	Female JIS 90 Degree Swivel
	FKOS	Female Komatsu Swivel
API	KFST	Komatsu Flange Straight
	KF45	Komatsu Flange 45 Degree
	KF90	Komatsu Flange 90 Degree
	FHUN	Female Hammer Union
	MAPI	Male API Pipe Thread
Other	MHUN	Male Hammer Union
	BTTF	Bite Type Tube Fitting
	FGRT	Female Grease Tap
	FPWS	Female Pressure Washer Swivel
	HMEN	Hose Mender

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Alfacrimp Fitting Selection Chart



Former Part Numbers

Hose		-04	-05	-06	-08	-10	-12	-16	-20	-24	-32
		DN 6	DN 8	DN 10	DN 12	DN 16	DN 19	DN 25	DN 32	DN 38	DN 51
		1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
HF and MT (MSHA) Cover	FLEXOR 1SN MINETUFF	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124	C124	C124
	FLEXOPACK 2SC	C12A	C12A	C12A	C12A	C12A	C12A	C12A			
	FLEXOR 2SN MINETUFF	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124	C124	C124
	FLEXOPACK 2 MINETUFF and LOW TEMP	C12A	C12A	C12A	C12A	C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
	ALFATECH 3000 MINETUFF	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124		
		C121	C121	C121	C121						
MSHA cover, HT and Temp Tech	FLEXOR 1SN MSHA	C12A	C12A	C12A	C12A	C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
						C124	C124	C124	C124	C124	C124
	FLEXOR 1SN TEMP TECH	C12A		C12A	C12A	C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
						C124	C124	C124	C124	C124	C124
	FLEXOR 2SN MSHA	C12A	C12A	C12A		C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
				C124	C124	C124	C124	C124	C124	C124	C124
	FLEXOR 2SN TEMP TECH	C12A		C12A		C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
				C124	C124	C124	C124	C124	C124	C124	C124
Wire Spiral Hoses	ALFATECH 4000			C124	C124	C124	C124	C124		C126	C12H
	ALFATECH 5000							C126	C126	C126	C12R
	FLEXOR R12			C124	C124	C124	C124	C124	C124	C124	C124
							C126	C126	C126	C126	
	FLEXOR 4SH						C126	C126	C126	C126	C12H
	FLEXOR R13						C126	C126	C126	C126	C12R
	ALFABIOTECH 3000								C124	C124	C124
	ALFABIOTECH 4000						C124	C124			
	ALFABIOTECH 5000						C126	C126	C126	C126	C12R
	ALFABIOTECH 5500						C126*	C126*			
	ALFABIOTECH 6000						C126	C126	C126		
	FLEXOR RIG							C126	C126	C126	C12R

* under validation

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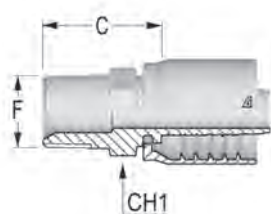
New Part Numbers

Hose		-04	-05	-06	-08	-10	-12	-16	-20	-24	-32
		DN 6	DN 8	DN 10	DN 12	DN 16	DN 19	DN 25	DN 32	DN 38	DN 51
		1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
HF and MT (MSHA) Cover	FLEXOR 1SN MINETUFF	B	B	B	B	B	B	B	D	D	D
	FLEXOPACK 2SC	B	B	B	B	B	B	B			
	FLEXOR 2SN MINETUFF	B	B	B	B	B	B	B	D	D	D
	FLEXOPACK 2 MINETUFF and LOW TEMP	B	B	B	B	B	B	B			
		C	C	C	C	C	C	C			
	ALFATECH 3000 MINETUFF	B	B	B	B	B	B	B	D		
		Q	Q	Q	Q						
MSHA cover, HT and Temp Tech	FLEXOR 1SN MSHA	B	B	B	B	B	B	B			
		C	C	C	C	C	C	C			
						D	D	D	D	D	D
	FLEXOR 1SN TEMP TECH	B		B	B	B	B	B			
		C	C	C	C	C	C	C			
						D	D	D	D	D	D
	FLEXOR 2SN MSHA	B	B	B		B	B	B			
		C	C	C	C	C	C	C			
				D	D	D	D	D	D	D	D
	FLEXOR 2SN TEMP TECH	B		B		B	B	B			
		C	C	C	C	C	C	C			
				D	D	D	D	D	D	D	D
Wire Spiral Hoses	ALFATECH 4000			D	D	D	D	D		F	H
	ALFATECH 5000							F	F	F	M
	FLEXOR R12			D	D	D	D	D	D	D	D
							F	F	F	F	
	FLEXOR 4SH						F	F	F	F	H
	FLEXOR R13						F	F	F	F	M
	ALFABIOTECH 3000								D	D	D
	ALFABIOTECH 4000						D	D			
	ALFABIOTECH 5000						F	F	F	F	M
	ALFABIOTECH 5500						F*	F*			
	ALFABIOTECH 6000						F	F	F		
	FLEXOR RIG							F	F	F	M

* under validation

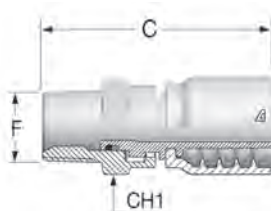
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AlfaCrimp One-Piece Fittings - C121



NPTF Solid Male 60° Seat

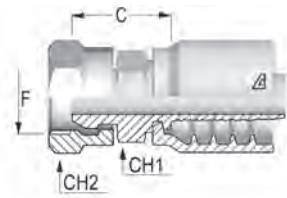
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12112810-0402	Q-0402-MNPT	R17	04	1/4	6.4	02	1/8-27	22.3	14	0.09
C12112810-0404	Q-0404-MNPT	R17	04	1/4	6.4	04	1/4-18	26.3	17	0.11
C12112810-0406	Q-0406-MNPT	R17	04	1/4	6.4	06	3/8-18	26.3	19	0.13
C12112810-0504	Q-0504-MNPT	R17	05	5/16	7.9	04	1/4-18	27.0	17	0.12
C12112810-0506	Q-0506-MNPT	R17	05	5/16	7.9	06	3/8-18	27.0	19	0.17
C12112810-0604	Q-0604-MNPT	R17	06	3/8	9.5	04	1/4-18	26.3	17	0.13
C12112810-0606	Q-0606-MNPT	R17	06	3/8	9.5	06	3/8-18	26.3	19	0.15
C12112810-0608	Q-0608-MNPT	R17	06	3/8	9.5	08	1/2-14	32.3	22	0.22
C12112810-0806	Q-0806-MNPT	R17	08	1/2	12.7	06	3/8-18	28.1	19	0.21
C12112810-0808	Q-0808-MNPT	R17	08	1/2	12.7	08	1/2-14	34.0	22	0.26
C12112810-0812	Q-0812-MNPT	R17	08	1/2	12.7	12	3/4-14	34.0	27	0.31



NPTF Male Swivel 60° Seat

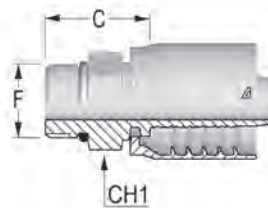
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12112811-0404	Q-0404-MNPS	R17	04	1/4	6.4	04	1/4-18	37.3	17	0.15
C12112811-0604	Q-0604-MNPS	R17	06	3/8	9.5	04	1/4-18	39.4	17	0.19
C12112811-0606	Q-0606-MNPS	R17	06	3/8	9.5	06	3/8-18	37.2	22	0.21
C12112811-0806	Q-0806-MNPS	R17	08	1/2	12.7	06	3/8-18	38.3	22	0.27
C12112811-0808	Q-0808-MNPS	R17	08	1/2	12.7	08	1/2-14	41.7	22	0.31

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NPSM Female Swivel 60° Seat

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12127311-0404	Q-0404-FPMS	R17	04	1/4	6.4	04	1/4-18	24.3	19	17	0.14
C12127311-0606	Q-0606-FPMS	R17	06	3/8	9.5	06	3/8-18	25.8	22	19	0.20
C12127311-0808	Q-0808-FPMS	R17	08	1/2	12.7	08	1/2-14	27.6	27	22	0.28

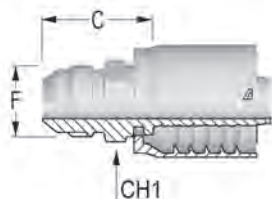


SAE Solid Male O-Ring Boss

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12113010-0404	Q-0404-MORB	R17	04	1/4	6.4	04	7/16-20	22.5	14	0.09
C12113010-0405	Q-0405-MORB	R17	04	1/4	6.4	05	1/2-20	22.4	16	0.10
C12113010-0406	Q-0406-MORB	R17	04	1/4	6.4	06	9/16-18	24.2	17	0.11
C12113010-0606	Q-0606-MORB	R17	06	3/8	9.5	06	9/16-18	24.2	19	0.15
C12113010-0608	Q-0608-MORB	R17	06	3/8	9.5	08	3/4-16	26.4	22	0.17
C12113010-0610	Q-0610-MORB	R17	06	3/8	9.5	10	7/8-14	28.9	27	0.23
C12113010-0808	Q-0808-MORB	R17	08	1/2	12.7	08	3/4-16	27.2	22	0.23
C12113010-0810	Q-0810-MORB	R17	08	1/2	12.7	10	7/8-14	27.8	27	0.28
C12113010-0812	Q-0812-MORB	R17	08	1/2	12.7	12	1 1/16-12	32.2	32	0.38

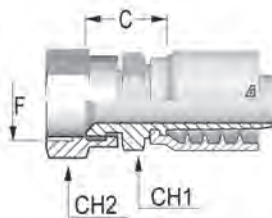
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AlfaCrimp One-Piece Fittings - C121



JIC Solid Male 37°

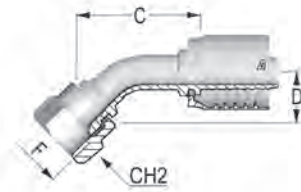
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12112510-0404	Q-0404-MJIC	R17	04	1/4	6.4	04	7/16-20	25.3	12	0.09
C12112510-0405	Q-0405-MJIC	R17	04	1/4	6.4	05	1/2-20	26.3	14	0.10
C12112510-0406	Q-0406-MJIC	R17	04	1/4	6.4	06	9/16-18	26.3	17	0.11
C12112510-0505	Q-0505-MJIC	R17	05	5/16	7.9	05	1/2-20	26.3	14	0.11
C12112510-0506	Q-0506-MJIC	R17	05	5/16	7.9	06	9/16-18	26.3	17	0.13
C12112510-0606	Q-0606-MJIC	R17	06	3/8	9.5	06	9/16-18	26.3	17	0.13
C12112510-0608	Q-0608-MJIC	R17	06	3/8	9.5	06	9/16-18	26.3	17	0.13
C12112510-0808	Q-0808-MJIC	R17	08	1/2	12.7	08	3/4-16	29.8	19	0.21
C12112510-0810	Q-0810-MJIC	R17	08	1/2	12.7	10	7/8-14	34.4	24	0.27
C12112510-0812	Q-0812-MJIC	R17	08	1/2	12.7	12	7/8-14	37.0	27	0.32



JIC Female Swivel 37° Seat

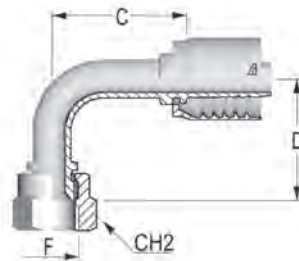
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12126511-0404	Q-0404-FJDH	R17	04	1/4	6.4	04	7/16-20	20.6	14	15	0.12
C12126511-0405	Q-0405-FJDH	R17	04	1/4	6.4	05	1/2-20	21.3	14	17	0.13
C12126511-0406	Q-0406-FJDH	R17	04	1/4	6.4	06	9/16-18	21.3	17	19	0.15
C12126511-0606	Q-0606-FJDH	R17	06	3/8	9.5	06	9/16-18	21.3	17	19	0.17
C12126511-0608	Q-0608-FJDH	R17	06	3/8	9.5	08	3/4-16	23.8	19	25	0.25
C12126511-0610	Q-0610-FJDH	R17	06	3/8	9.5	10	7/8-14	26.8	27	22	0.29
C12126511-0806	Q-0806-FJDH	R17	08	1/2	12.7	06	9/16-18	23.1	22	19	0.25
C12126511-0808	Q-0808-FJDH	R17	08	1/2	12.7	08	3/4-16	25.6	22	25	0.31
C12126511-0810	Q-0810-FJDH	R17	08	1/2	12.7	10	7/8-14	26.6	22	27	0.33
C12126511-0812	Q-0812-FJDH	R17	08	1/2	12.7	12	1 1/16-12	28.1	27	32	0.41

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



45° JIC Female Swivel 37° Seat Solid Bent Tube

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12122541-0404M	Q-0404-FJ45	R17	04	1/4	6.4	04	7/16-20	37.5	15.5	15	0.12
C12122541-0405M	Q-0405-FJ45	R17	04	1/4	6.4	05	1/2-20	41.0	15.5	17	0.13
C12122541-0406M	Q-0406-FJ45	R17	04	1/4	6.4	06	9/16-18	34.0	15.0	19	0.15
C12122541-0506M	Q-0506-FJ45	R17	05	5/16	7.9	06	9/16-18	38.0	16.0	19	0.17
C12122541-0606M	Q-0606-FJ45	R17	06	3/8	9.5	06	9/16-18	48.0	17.5	19	0.18
C12122541-0608M	Q-0608-FJ45	R17	06	3/8	9.5	08	3/4-16	45.0	20.0	25	0.25
C12122541-0808M	Q-0808-FJ45	R17	08	1/2	12.7	08	3/4-16	55.0	20.0	25	0.33
C12122541-0810M	Q-0810-FJ45	R17	08	1/2	12.7	10	7/8-14	51.5	25.0	27	0.36
C12122541-0812M	Q-0812-FJ45	R17	08	1/2	12.7	12	1 1/16-12	48.0	20.5	32	0.49

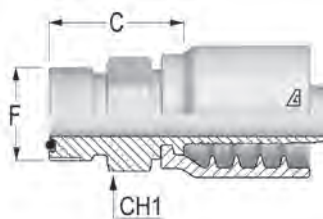


90° JIC Female Swivel 37° Seat Solid Bent Tube

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12122591-0404S	Q-0404-FJ9S	R17	04	1/4	6.4	04	7/16-20	25.5	21.0	16	0.13
C12122591-0405S	Q-0405-FJ9S	R17	04	1/4	6.4	05	1/2-20	26.0	21.0	17	0.14
C12122591-0406S	Q-0406-FJ9S	R17	04	1/4	6.4	06	9/16-18	26.0	23.0	17	0.15
C12122591-0506S	Q-0506-FJ9S	R17	05	5/16	7.9	06	9/16-18	31.5	23.0	19	0.18
C12122591-0606S	Q-0606-FJ9S	R17	06	3/8	9.5	06	9/16-18	32.5	23.0	19	0.19
C12122591-0608S	Q-0608-FJ9S	R17	06	3/8	9.5	08	3/4-16	32.5	29.0	25	0.27
C12122591-0808S	Q-0808-FJ9S	R17	08	1/2	12.7	08	3/4-16	37.0	29.0	25	0.35
C12122591-0810S	Q-0810-FJ9S	R17	08	1/2	12.7	10	7/8-14	38.0	32.0	27	0.37
C12122591-0812S	Q-0812-FJ9S	R17	08	1/2	12.7	12	1 1/16-12	38.5	46.0	32	0.47

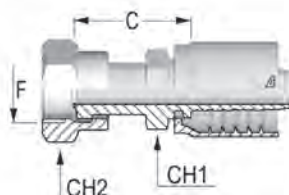
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AlfaCrimp One-Piece Fittings - C121



ORFS Solid Male

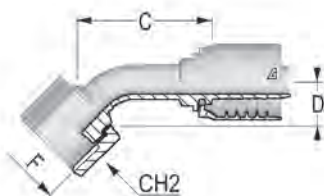
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12112410-0404	Q-0404-MOFS	R17	04	1/4	6.4	04	9/16-18	25.3	17	0.12
C12112410-0406	Q-0406-MOFS	R17	04	1/4	6.4	06	11/16-16	26.5	19	0.15
C12112410-0606	Q-0606-MOFS	R17	06	3/8	9.5	06	11/16-16	26.5	19	0.17
C12112410-0608	Q-0608-MOFS	R17	06	3/8	9.5	08	13/16-16	26.3	22	0.20
C12112410-0610	Q-0610-MOFS	R17	06	3/8	9.5	10	1-14	29.8	27	0.26
C12112410-0808	Q-0808-MOFS	R17	08	1/2	12.7	08	13/16-16	29.9	22	0.26
C12112410-0810	Q-0810-MOFS	R17	08	1/2	12.7	10	1-14	30.6	27	0.33
C12112410-0812	Q-0812-MOFS	R17	08	1/2	12.7	12	1 3/16-12	37.1	32	0.50



ORFS Female

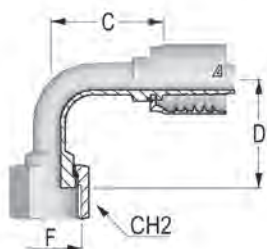
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12122411-0404	Q-0404-FOFS	R17	04	1/4	6.4	04	9/16-18	27.5	17	19	0.13
C12122411-0406	Q-0406-FOFS	R17	04	1/4	6.4	06	11/16-16	30.5	17	22	0.17
C12122411-0506	Q-0506-FOFS	R17	05	5/16	7.9	06	11/16-16	30.0	19	22	0.19
C12122411-0606	Q-0606-FOFS	R17	06	3/8	9.5	06	11/16-16	30.0	19	22	0.20
C12122411-0608	Q-0608-FOFS	R17	06	3/8	9.5	08	13/16-16	35.0	22	27	0.28
C12122411-0808	Q-0808-FOFS	R17	08	1/2	12.7	08	13/16-16	36.0	22	27	0.31
C12122411-0810	Q-0810-FOFS	R17	08	1/2	12.7	10	1-14	39.5	27	30	0.42

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



45° ORFS Female Solid Bent Tube

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12122443-0404M	Q-0404-F045	R17	04	1/4	6.4	04	9/16-18	37.5	19	0.12
C12122443-0406M	Q-0406-F045	R17	04	1/4	6.4	06	11/16-16	43.0	22	0.16
C12122443-0506M	Q-0506-F045	R17	05	5/16	7.9	06	11/16-16	39.0	22	0.19
C12122443-0606M	Q-0606-F045	R17	06	3/8	9.5	06	11/16-16	49.0	22	0.20
C12122443-0608M	Q-0608-F045	R17	06	3/8	9.5	08	13/16-16	41.0	27	0.24
C12122443-0810M	Q-0810-F045	R17	08	1/2	12.7	10	1-14	50.0	30	0.41



90° ORFS Female Solid Bent Tube ISO 12151-1

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12122493-0404S	Q-0404-F09S	R17	04	1/4	6.4	04	9/16-18	25.5	21.0	17	0.12
C12122493-0406S	Q-0406-F09S	R17	04	1/4	6.4	06	11/16-16	26.0	23.0	22	0.18
C12122493-0506S	Q-0506-F09S	R17	05	5/16	7.9	06	11/16-16	32.0	25.0	22	0.21
C12122493-0606S	Q-0606-F09S	R17	06	3/8	9.5	06	11/16-16	32.0	25.0	22	0.21
C12122493-0608S	Q-0608-F09S	R17	06	3/8	9.5	08	13/16-16	35.0	29.0	24	0.25
C12122493-0810S	Q-0810-F09S	R17	08	1/2	12.7	10	1-14	37.0	32.5	30	0.39

*crimped nut

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One-Piece AlfaCrimp Fittings - C122 Index

HOSES

C121

C122

C12A

C124

C126

TWO PIECE FERRULES
(STANDARD & INTERLOCK)H12 STANDARD
INSERTSH14 AND H1T
INTERLOCK INSERTS

CRIMPERS

TECHNICAL
INFORMATION**NPTF**

NPTF Solid Male 60° Seat 98



NPTF Male Swivel 60° Seat 98



NPTF Solid Female Rigid..... 99



NPSM Female Swivel 60° Seat..... 99

JIC

JIC Solid Male 37° 100

JIC Female Swivel 37° Seat
Dual Hex 101JIC Female Swivel 37° Seat
Single Hex 10145° JIC Female Swivel 37° Seat
Solid Bent Tube 10290° JIC Female Swivel 37° Seat
Solid Bent Tube 102 - 103**SAE**

SAE Solid Male O-Ring Boss 100

SAE (continued)

SAE Female Swivel 45° Seat 104

ORFS

ORFS Solid Male 104



ORFS Female 105

45° ORFS Female
Solid Bent Tube 10590° ORFS Female Solid Bent Tube
ISO 12151-1 106**SAE Flange Code 61**O-Ring Flange SAE J518
Code 61 Straight 10745° O-Ring Flange SAE J518
Code 61 Solid Bent Tube 10790° Flange SAE J518 Code 61
Solid Bent Tube 108**BSP**

BSP/JIS Solid Male Tapered 109

BSP Solid Male Parallel 60°
Seat..... 110

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One-Piece AlfaCrimp Fittings - C122 Index

BSP (continued)



**BSP O-Ring Female Swivel
60° Cone.....110**



**45° BSP O-Ring Female Swivel
60° Cone Solid Bent Tube111**



**90° BSP O-Ring Female Swivel
60° Cone Solid Bent Tube111**

Metric



SAE Female Swivel 45° Seat104



**Metric Solid Male 24° Seat
DIN 3853 - Light112**



**Metric Solid Male 24° Seat
DIN 3861 - Heavy112**



**Metric Swivel Female O-Ring
24° Seat DIN 3865 - Light.....113**



**Metric Swivel Female O-Ring
24° Seat DIN 3865 - Heavy.....113**

Metric (continued)



**45° Metric O-Ring Female Swivel
24° Seat DIN 3865 - Light - Solid
Bent Tube114**



**45° Metric O-Ring Female Swivel
24° Seat DIN 3865 - Heavy - Solid
Bent Tube114**



**90° Metric O-Ring Female Swivel
24° Seat DIN 3865 - Light - Solid
Bent Tube115**



**90° Metric O-Ring Female Swivel
24° Seat DIN 3865 - Heavy - Solid
Bent Tube115**

Other



Female Grease Tap 108



Bite Type Tube Fitting..... 108



Hose Mender 109

Fitting Configuration Chart



HOSES

C121

C122

C12A

C124

C126

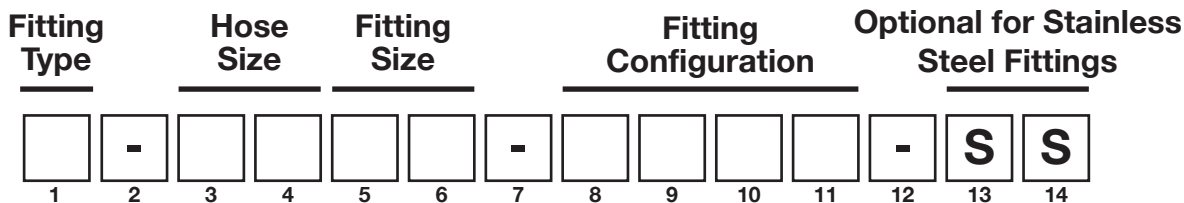
TWO PIECE FERRULES
(STANDARD & INTERLOCK)

H12 STANDARD
INSERTS

H14 AND H1T
INTERLOCK INSERTS

CRIMPERS

TECHNICAL
INFORMATION



1-Piece

B – C12A
Q – C121
C – C122
D – C124
F – C126
H – C12H
M – C12R

2-Piece

A – H12
X – H14
Z – H1T
K – H1K

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-14 or 7/8"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-14 or 7/8"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

Fitting Configuration Chart – Fitting Type Explanation

B – C12A – One piece non-skive crimp fitting for all braided hoses up to 1" ID.
Q – C121 – One piece non-skive crimp fitting for Alfatech 3000 (AT3KMT) hose and Alfajet 210 (TAJ3BK/TAJ3BU) 1/4" ID thru 1/2" ID only, while supplies last.
C – C122 – One piece non-skive crimp fitting for braided hose except Alfatech 3000 (AT3KMT) and Alfajet 210 (TAJ3BK/TAJ3BU) 1/4" ID thru 1/2" ID only, while supplies last.
D – C124 – One piece non-skive crimp fitting for SAE 100R1 and 100R2 wire braided hose and 4 wire spiral hose Flexor 12 (TR12) 1/2" ID thru 2" ID and Alfabiotech 3000 1 1/4" thru 2".
F – C126 – One piece non-skive crimp fitting for Flexor 12 (TR12), 4SH (T4SH), Flexor 13 (TR13), Alfatech 5000, Alfabiotech 5000 3/4" thru 1 1/2" and Alfabiotech 6000 3/4" thru 1 1/4".
H – C12H – One piece non-skive crimp fitting for 4SH (T4SH) in 2" size only.
M – C12R – One Piece non-skive crimp fitting for Flexor 13 (TR13) in 2" size only.
A – H12 – Two piece insert for all wire and textile braided hoses, thermoplastic hose, Flexor 4 and PTFE hose 3/16" thru 2" and Flexor 12 (TR12) 1/2" thru 1 1/2" along with some spiral wire reinforced hoses thru 1 1/2".
X – H14 – Two piece Interlock insert for spiral wire reinforced hoses. Requires both internal and external skiving and a XF1 or XF2 Interlock ferrule to perform properly.
Z – H1T – Two piece Interlock insert for Alfatech 6000 (AT6K) in 2" size only. Requires both internal and external skiving and a ZF1 Interlock ferrule to perform properly.
K – H1K – Two piece insert for Flexor Rig 48, 3" ID size only. Requires a KS1 skive ferrule to perform properly.

TYPE	SUFFIX	DESCRIPTION
NPTF	FNPR	Female National Pipe Rigid
	FPMS	Female Pipe Straight Mechanical Swivel
	FNPS	Female National Pipe Swivel
	MNPT	Male Pipe NPTF
	MNPS	Male National Pipe Swivel
	MPS9	Male Pipe Swivel 90 Degree
JIC	FJSH	Female JIC Single Hex Swivel
	FJDH	Female JIC Double Hex Swivel
	FJ45	Female JIC 45 Degree Swivel
	FJ9L	Female JIC 90 Degree Long Swivel
	FJ9M	Female JIC 90 Degree Medium Swivel
	FJ9S	Female JIC 90 Degree Short Swivel
	MJIC	Male JIC
SAE	FSAE	Female SAE Swivel
	MORB	Male O-Ring Boss
	MOBS	Male O-Ring Boss Swivel
	MBS9	Male O-Ring Boss Swivel 90 Degree
	MIFL	Male Inverted Flare
	MIF4	Male Inverted Flare 45 Degree
	MIF9	Male Inverted Flare 90 Degree
	MSAE	Male SAE
ORFS	FOFS	Female O-Ring Face Seal Swivel
	F030	Female O-Ring Face Seal 30 Degree Medium Swivel
	F045	Female O-Ring Face Seal 45 Degree Swivel
	F09L	Female O-Ring Face Seal 90 Degree Long Swivel
	F09M	Female O-Ring Face Seal 90 Degree Medium Swivel
	F09S	Female O-Ring Face Seal 90 Degree Short Swivel
	MOFS	Male O-Ring Face Seal
SAE Flange Code 61	C61S	Code 61 Flange Straight
	C612	Code 61 Flange 22 Degree
	C613	Code 61 Flange 30 Degree
	C614	Code 61 Flange 45 Degree
	C616	Code 61 Flange 60 Degree
	C619	Code 61 Flange 90 Degree
SAE Flange Code 62	C62S	Code 62 Flange Straight
	C624	Code 62 Flange 45 Degree
	C629	Code 62 Flange 90 Degree

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Fitting Type	Hose Size	Fitting Size
1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	21
22	23	24
25	26	27
28	29	30
31	32	33
34	35	36
37	38	39
40	41	42
43	44	45
46	47	48
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523	524	525
526	527	528
529	530	531
532	533	534
535	536	537
538	539	540
541	542	543
544	545	546
547	548	549
550	551	552
553	554	555
556	557	558
559	560	561
562	563	564
565	566	567
568	569	570
571	572	573
574	575	576
577	578	579
580	581	582
583	584	585
586	587	588
589	590	591
592	593	594
595	596	597
598	599	600
601	602	603
604	605	606
607	608	609
610	611	612
613	614	615
616	617	618
619	620	621
622	623	624
625	626	627
628	629	630
631	632	633
634	635	636
637	638	639
640	641	642
643	644	645
646	647	648
649	650	651
652	653	654
655	656	657
658	659	660
661	662	663
664	665	666
667	668	669
670	671	672
673	674	675
676	677	678
679	680	681
682	683	684
685	686	687
688	689	690
691	692	693
694	695	696
697	698	699
700	701	702
703	704	705
706	707	708
709	710	711
712	713	714
715	716	717
718	719	720
721	722	723
724	725	726
727	728	729
730	731	732
733	734	735
736	737	738
739	740	741
742	743	744
745	746	747
748	749	750
751	752	753
754	755	756
757	758	759
760	761	762
763	764	765
766	767	768
769	770	771
772	773	774
775	776	777
778	779	780
781	782	783
784	785	786
787	788	789
790	791	792
793	794	795
796	797	798
799	800	801
802	803	804
805	806	807
808	809	810
811	812	813
814	815	816
817	818	819
820	821	822
823	824	825
826	827	828
829	830	831
832	833	834
835	836	837
838	839	840
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844	845	846
847	848	849
850	851	852
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964	965	966
967	968	969
970	971	972
973	974	975
976	977	978
979	980	981
982	983	984
985	986	987
988	989	990
991	992	993
994	995	996
997	998	999
1000	1001	1002

Fitting Configuration Chart – Fitting Type Explanation

B – C12A – One piece non-skive crimp fitting for all braided hoses up to 1" ID.

Q – C121 – One piece non-skive crimp fitting for Alfatech 3000 (AT3KMT) hose and Alfajet 210 (TAJ3BK/TAJ3BU) ¼" ID thru ½" ID only, while supplies last.

C – C122 – One piece non-skive crimp fitting for braided hose except Alfatech 3000 (AT3KMT) and Alfajet 210 (TAJ3BK/TAJ3BU) ¼" ID thru ½" ID only, while supplies last.

D – C124 – One piece non-skive crimp fitting for SAE 100R1 and 100R2 wire braided hose and 4 wire spiral hose Flexor 12 (TR12) ½" ID thru 2" ID and Alfabiotech 3000 1 ¼" thru 2".

F – C126 – One piece non-skive crimp fitting for Flexor 12 (TR12), 4SH (T4SH), Flexor 13 (TR13), Alfatech 5000, Alfabiotech 5000 ¾" thru 1 ½" and Alfabiotech 6000 ¾" thru 1 ¼".

H – C12H – One piece non-skive crimp fitting for 4SH (T4SH) in 2" size only.

M – C12R – One Piece non-skive crimp fitting for Flexor 13 (TR13) in 2" size only.

A – H12 – Two piece insert for all wire and textile braided hoses, thermoplastic hose, Flexor 4 and PTFE hose 3/16" thru 2" and Flexor 12 (TR12) ½" thru 1 ½" along with some spiral wire reinforced hoses thru 1 ½".

X – H14 – Two piece Interlock insert for spiral wire reinforced hoses. Requires both internal and external skiving and a XF1 or XF2 Interlock ferrule to perform properly.

Z – H1T – Two piece Interlock insert for Alfatech 6000 (AT6K) in 2" size only. Requires both internal and external skiving and a ZF1 Interlock ferrule to perform properly.

K – H1K – Two piece insert for Flexor Rig 48, 3" ID size only. Requires a KS1 skive ferrule to perform properly.

Fitting Configuration	Optional for Stainless Steel Fittings
8	12
9	13
10	14
11	15
12	16
13	17
14	18
15	19
16	20
17	21
18	22
19	23
20	24
21	25
22	26
23	27
24	28
25	29
26	30
27	31
28	32
29	33
30	34
31	35
32	36
33	37
34	38
35	39
36	40
37	41
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39	43
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41	45
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50	54
51	55
52	56
53	57
54	58
55	59
56	60
57	61
58	62
59	63
60	64
61	65
62	66
63	67
64	68
65	69
66	70
67	71
68	72
69	73

Alfacrimp Fitting Selection Chart



Former Part Numbers

Hose		-04	-05	-06	-08	-10	-12	-16	-20	-24	-32
		DN 6	DN 8	DN 10	DN 12	DN 16	DN 19	DN 25	DN 32	DN 38	DN 51
		1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
HF and MT (MSHA) Cover	FLEXOR 1SN MINETUFF	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124	C124	C124
	FLEXOPACK 2SC	C12A	C12A	C12A	C12A	C12A	C12A	C12A			
	FLEXOR 2SN MINETUFF	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124	C124	C124
	FLEXOPACK 2 MINETUFF and LOW TEMP	C12A	C12A	C12A	C12A	C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
	ALFATECH 3000 MINETUFF	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124		
		C121	C121	C121	C121						
MSHA cover, HT and Temp Tech	FLEXOR 1SN MSHA	C12A	C12A	C12A	C12A	C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
						C124	C124	C124	C124	C124	C124
	FLEXOR 1SN TEMP TECH	C12A		C12A	C12A	C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
						C124	C124	C124	C124	C124	C124
	FLEXOR 2SN MSHA	C12A	C12A	C12A		C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
				C124	C124	C124	C124	C124	C124	C124	C124
	FLEXOR 2SN TEMP TECH	C12A		C12A		C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
				C124	C124	C124	C124	C124	C124	C124	C124
Wire Spiral Hoses	ALFATECH 4000			C124	C124	C124	C124	C124		C126	C12H
	ALFATECH 5000							C126	C126	C126	C12R
	FLEXOR R12			C124	C124	C124	C124	C124	C124	C124	C124
							C126	C126	C126	C126	
	FLEXOR 4SH						C126	C126	C126	C126	C12H
	FLEXOR R13						C126	C126	C126	C126	C12R
	ALFABIOTECH 3000								C124	C124	C124
	ALFABIOTECH 4000						C124	C124			
	ALFABIOTECH 5000						C126	C126	C126	C126	C12R
	ALFABIOTECH 5500						C126*	C126*			
	ALFABIOTECH 6000						C126	C126	C126		
	FLEXOR RIG							C126	C126	C126	C12R

* under validation

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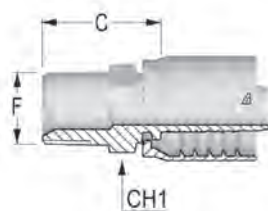
New Part Numbers

Hose		-04	-05	-06	-08	-10	-12	-16	-20	-24	-32
		DN 6	DN 8	DN 10	DN 12	DN 16	DN 19	DN 25	DN 32	DN 38	DN 51
		1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
HF and MT (MSHA) Cover	FLEXOR 1SN MINETUFF	B	B	B	B	B	B	B	D	D	D
	FLEXOPACK 2SC	B	B	B	B	B	B	B			
	FLEXOR 2SN MINETUFF	B	B	B	B	B	B	B	D	D	D
	FLEXOPACK 2 MINETUFF and LOW TEMP	B	B	B	B	B	B	B			
		C	C	C	C	C	C	C			
	ALFATECH 3000 MINETUFF	B	B	B	B	B	B	B	D		
		Q	Q	Q	Q						
MSHA cover, HT and Temp Tech	ALFAJET 210	B	B	B	B						
		Q	Q	Q	Q						
	FLEXOR 1SN MSHA	B	B	B	B	B	B	B			
		C	C	C	C	C	C	C			
						D	D	D	D	D	D
	FLEXOR 1SN TEMP TECH	B		B	B	B	B	B			
		C	C	C	C	C	C	C			
Wire Spiral Hoses						D	D	D	D	D	D
	FLEXOR 2SN MSHA	B	B	B		B	B	B			
		C	C	C	C	C	C	C			
				D	D	D	D	D	D	D	D
	FLEXOR 2SN TEMP TECH	B		B		B	B	B			
		C	C	C	C	C	C	C			
				D	D	D	D	D	D	D	D
Wire Spiral Hoses	ALFATECH 4000			D	D	D	D	D		F	H
	ALFATECH 5000							F	F	F	M
	FLEXOR R12			D	D	D	D	D	D	D	D
							F	F	F	F	
	FLEXOR 4SH						F	F	F	F	H
	FLEXOR R13						F	F	F	F	M
	ALFABIOTECH 3000								D	D	D
	ALFABIOTECH 4000						D	D			
	ALFABIOTECH 5000						F	F	F	F	M
	ALFABIOTECH 5500						F*	F*			
	ALFABIOTECH 6000						F	F	F		
	FLEXOR RIG							F	F	F	M

* under validation

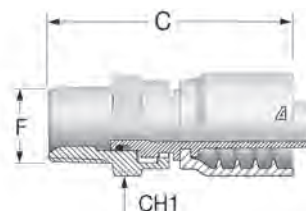
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AlfaCrimp One-Piece Fittings - C122



NPTF Solid Male 60° Seat

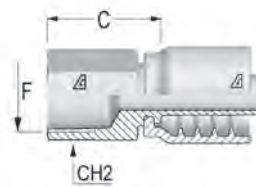
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12212810-0402	C-0402-MNPT	R1AT/R2AT/FXP2	04	1/4	6.4	02	1/8-27	22.3	14	0.10
C12212810-0404	C-0404-MNPT	R1AT/R2AT/FXP2	04	1/4	6.4	04	1/4-18	26.3	17	0.12
C12212810-0406	C-0406-MNPT	R1AT/R2AT/FXP2	04	1/4	6.4	06	3/8-18	26.3	19	0.13
C12212810-0504	C-0504-MNPT	R1AT/R2AT/FXP2	05	5/16	7.9	04	1/4-18	27.0	17	0.14
C12212810-0506	C-0506-MNPT	R1AT/R2AT/FXP2	05	5/16	7.9	06	3/8-18	27.0	19	0.19
C12212810-0604	C-0604-MNPT	R1AT/R2AT/FXP2	06	3/8	9.5	04	1/4-18	26.3	17	0.14
C12212810-0606	C-0606-MNPT	R1AT/R2AT/FXP2	06	3/8	9.5	06	3/8-18	26.3	19	0.15
C12212810-0608	C-0608-MNPT	R1AT/R2AT/FXP2	06	3/8	9.5	08	1/2-14	32.3	22	0.24
C12212810-0806	C-0806-MNPT	R1AT/R2AT/FXP2	08	1/2	12.7	06	3/8-18	28.1	19	0.20
C12212810-0808	C-0808-MNPT	R1AT/R2AT/FXP2	08	1/2	12.7	08	1/2-14	34.0	22	0.25
C12212810-0812	C-0812-MNPT	R1AT/R2AT/FXP2	08	1/2	12.7	12	3/4-14	34.0	27	0.30
C12212810-1012	C-1012-MNPT	R1AT/R2AT/FXP2/AT3K	10	5/8	15.9	12	3/4-14	34.0	27	0.32
C12212810-1212	C-1212-MNPT	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	12	3/4-14	34.6	27	0.44
C12212810-1216	C-1216-MNPT	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	16	1-11 1/2	42.6	36	0.64
C12212810-1616	C-1616-MNPT	R1AT/R2AT/FXP2/AT3K	16	1	25.4	16	1-11 1/2	42.6	36	0.93



NPTF Male Swivel 60° Seat

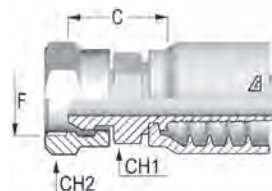
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12212811-0404	C-0404-MNPS	R1AT/R2AT/FXP2	04	1/4	6.4	04	1/4-18	37.3	17	0.15
C12212811-0406	C-0406-MNPS	R1AT/R2AT/FXP2	04	1/4	6.4	06	3/8-18	39.5	22	0.30
C12212811-0604	C-0604-MNPS	R1AT/R2AT/FXP2	06	3/8	9.5	04	1/4-18	39.4	17	0.19
C12212811-0606	C-0606-MNPS	R1AT/R2AT/FXP2	06	3/8	9.5	06	3/8-18	37.2	22	0.22
C12212811-0806	C-0806-MNPS	R1AT/R2AT/FXP2	08	1/2	12.7	06	3/8-18	38.3	22	0.26
C12212811-0808	C-0808-MNPS	R1AT/R2AT/FXP2	08	1/2	12.7	08	1/2-14	41.7	22	0.37
C12212811-1212	C-1212-MNPS	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	12	3/4-14	49.6	32	0.48
C12212811-1616	C-1616-MNPS	R1AT/R2AT/FXP2/AT3K	16	1	25.4	16	1-11 1/2	57.4	41	1.02

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NPTF Solid Female Rigid

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12222810-0404	C-0404-FNPR	R1AT/R2AT/FXP2	04	1/4	6.4	04	1/4-18	27.8	19	0.15
C12222810-0606	C-0606-FNPR	R1AT/R2AT/FXP2	06	3/8	9.5	06	3/8-18	28.8	22	0.24
C12222810-0808	C-0808-FNPR	R1AT/R2AT/FXP2	08	1/2	12.7	08	1/2-14	35.6	25	0.29
C12222810-1212	C-1212-FNPR	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	12	3/4-14	38.1	32	0.52
C12222810-1616	C-1616-FNPR	R1AT/R2AT/FXP2/AT3K	16	1	25.4	16	1-11 1/2	44.9	38	0.97

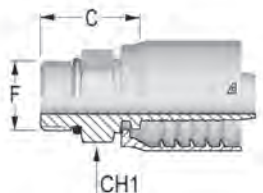


NPSM Female Swivel 60° Seat

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12227311-0404	C-0404-FPMS	R1AT/R2AT/FXP2	04	1/4	6.4	04	1/4-18	24.3	19	17	0.14
C12227311-0606	C-0606-FPMS	R1AT/R2AT/FXP2	06	3/8	9.5	06	3/8-18	25.8	22	19	0.21
C12227311-0808	C-0808-FPMS	R1AT/R2AT/FXP2	08	1/2	12.7	08	1/2-14	27.6	27	22	0.35

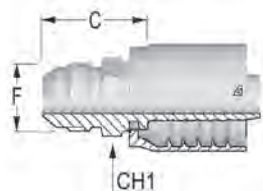
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AlfaCrimp One-Piece Fittings - C122



SAE Solid Male O-Ring Boss

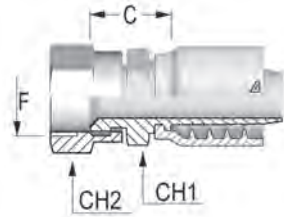
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12213010-0404	C-0404-MORB	R1AT/R2AT/FXP2	04	1/4	6.4	04	7/16-20	22.5	14	0.12
C12213010-0405	C-0405-MORB	R1AT/R2AT/FXP2	04	1/4	6.4	05	1/2-20	22.4	16	0.12
C12213010-0406	C-0406-MORB	R1AT/R2AT/FXP2	04	1/4	6.4	06	9/16-18	24.2	17	0.12
C12213010-0606	C-0606-MORB	R1AT/R2AT/FXP2	06	3/8	9.5	06	9/16-18	24.2	19	0.15
C12213010-0608	C-0608-MORB	R1AT/R2AT/FXP2	06	3/8	9.5	08	3/4-16	26.4	22	0.19
C12213010-0610	C-0610-MORB	R1AT/R2AT/FXP2	06	3/8	9.5	10	7/8-14	28.9	27	0.23
C12213010-0808	C-0808-MORB	R1AT/R2AT/FXP2	08	1/2	12.7	08	3/4-16	27.2	22	0.22
C12213010-0810	C-0810-MORB	R1AT/R2AT/FXP2	08	1/2	12.7	10	7/8-14	27.8	27	0.27
C12213010-0812	C-0812-MORB	R1AT/R2AT/FXP2	08	1/2	12.7	12	1 1/16-12	32.2	32	0.37
C12213010-1210	C-1210-MORB	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	10	7/8-14	33.0	27	0.42
C12213010-1212	C-1212-MORB	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	12	1 1/16-12	33.0	32	0.45
C12213010-1216	C-1216-MORB	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	16	1 5/16-12	36.0	38	0.69
C12213010-1616	C-1616-MORB	R1AT/R2AT/FXP2/AT3K	12	1	25.4	16	1 5/16-12	37.0	38	0.91



JIC Solid Male 37°

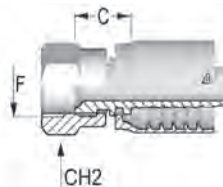
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12212510-0404	C-0404-MJIC	R1AT/R2AT/FXP2	04	1/4	6.4	04	7/16-20	25.3	12	0.09
C12212510-0405	C-0405-MJIC	R1AT/R2AT/FXP2	04	1/4	6.4	05	1/2-20	26.3	14	0.11
C12212510-0406	C-0406-MJIC	R1AT/R2AT/FXP2	04	1/4	6.4	06	9/16-18	26.3	17	0.12
C12212510-0505	C-0505-MJIC	R1AT/R2AT/FXP2	05	5/16	7.9	05	1/2-20	26.3	14	0.13
C12212510-0506	C-0506-MJIC	R1AT/R2AT/FXP2	05	5/16	7.9	06	9/16-18	26.3	17	0.15
C12212510-0606	C-0606-MJIC	R1AT/R2AT/FXP2	06	3/8	9.5	06	9/16-18	26.3	17	0.14
C12212510-0608	C-0608-MJIC	R1AT/R2AT/FXP2	06	3/8	9.5	08	3/4-16	29.0	19	0.18
C12212510-0808	C-0808-MJIC	R1AT/R2AT/FXP2	08	1/2	12.7	08	3/4-16	29.8	19	0.20
C12212510-0810	C-0810-MJIC	R1AT/R2AT/FXP2	08	1/2	12.7	10	7/8-14	34.4	24	0.25
C12212510-0812	C-0812-MJIC	R1AT/R2AT/FXP2	08	1/2	12.7	12	1 1/16-12	37.0	27	0.31
C12212510-1010	C-1010-MJIC	R1AT/R2AT/FXP2/AT3K	10	5/8	15.9	10	7/8-14	34.4	24	0.29
C12212510-1012	C-1012-MJIC	R1AT/R2AT/FXP2/AT3K	10	5/8	15.9	12	1 1/16-12	37.0	27	0.33
C12212510-1212	C-1212-MJIC	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	12	1 1/16-12	37.0	27	0.45
C12212510-1214	C-1214-MJIC	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	14	1 3/16-12	38.0	32	0.53
C12212510-1216	C-1216-MJIC	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	16	1 5/16-12	41.7	36	0.69
C12212510-1616	C-1616-MJIC	R1AT/R2AT/FXP2/AT3K	16	1	25.4	16	1 5/16-12	41.7	36	0.91
C12212510-1620	C-1620-MJIC	R1AT/R2AT/FXP2/AT3K	16	1	25.4	20	1 5/8-12	46.7	46	1.16

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JIC Female Swivel 37° Seat Dual Hex

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12226511-0404	C-0404-FJDH	R1AT/R2AT/FXP2	04	1/4	6.4	04	7/16-20	20.6	14	15	0.12
C12226511-0405	C-0405-FJDH	R1AT/R2AT/FXP2	04	1/4	6.4	05	1/2-20	21.3	14	17	0.13
C12226511-0406	C-0406-FJDH	R1AT/R2AT/FXP2	04	1/4	6.4	06	9/16-18	21.3	17	19	0.15
C12226511-0606	C-0606-FJDH	R1AT/R2AT/FXP2	06	3/8	9.5	06	9/16-18	21.3	17	19	0.17
C12226511-0608	C-0608-FJDH	R1AT/R2AT/FXP2	06	3/8	9.5	08	3/4-16	23.8	19	25	0.24
C12226511-0610	C-0610-FJDH	R1AT/R2AT/FXP2	06	3/8	9.5	10	7/8-14	26.8	27	22	0.27
C12226511-0806	C-0806-FJDH	R1AT/R2AT/FXP2	08	1/2	12.7	06	9/16-18	23.1	22	19	0.28
C12226511-0808	C-0808-FJDH	R1AT/R2AT/FXP2	08	1/2	12.7	08	3/4-16	25.6	22	25	0.24
C12226511-0810	C-0810-FJDH	R1AT/R2AT/FXP2	08	1/2	12.7	10	7/8-14	26.6	22	27	0.30
C12226511-0812	C-0812-FJDH	R1AT/R2AT/FXP2	08	1/2	12.7	12	1 1/16-12	28.1	27	32	0.39
C12226511-1010	C-1010-FJDH	R1AT/R2AT/FXP2/AT3K	10	5/8	15.9	10	7/8-14	30.6	24	27	0.42
C12226511-1210	C-1210-FJDH	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	10	7/8-14	29.1	27	27	0.48
C12226511-1212	C-1212-FJDH	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	12	1 1/16-12	28.6	27	32	0.53
C12226511-1214	C-1214-FJDH	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	14	1 3/16-12	26.8	27	22	0.60
C12226511-1216	C-1216-FJDH	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	16	1 5/16-12	27.5	32	38	0.67
C12226511-1612	C-1612-FJDH	R1AT/R2AT/FXP2/AT3K	16	1	25.4	12	1 1/16-12	33.4	32	32	0.95
C12226511-1616	C-1616-FJDH	R1AT/R2AT/FXP2/AT3K	16	1	25.4	16	1 5/16-12	34.9	32	38	1.02

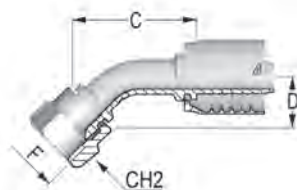


JIC Female 37° Seat Single Hex

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12222511-0404	C-0404-FJSH	R1AT/R2AT/FXP2	04	1/4	6.4	04	7/16-20	14	15	0.10
C12222511-0405	C-0405-FJSH	R1AT/R2AT/FXP2	04	1/4	6.4	05	1/2-20	15	17	0.11
C12222511-0406	C-0406-FJSH	R1AT/R2AT/FXP2	04	1/4	6.4	06	9/16-18	15	19	0.12
C12222511-0505	C-0505-FJSH	R1AT/R2AT/FXP2	05	5/16	7.9	05	1/2-20	15	17	0.14
C12222511-0506	C-0506-FJSH	R1AT/R2AT/FXP2	05	5/16	7.9	06	9/16-18	15	19	0.15
C12222511-0606	C-0606-FJSH	R1AT/R2AT/FXP2	06	3/8	9.5	06	9/16-18	15	19	0.15
C12222511-0608	C-0608-FJSH	R1AT/R2AT/FXP2	06	3/8	9.5	08	3/4-16	18	25	0.21
C12222511-0806	C-0806-FJSH	R1AT/R2AT/FXP2	08	1/2	12.7	06	9/16-18	19	19	0.23
C12222511-0808	C-0808-FJSH	R1AT/R2AT/FXP2	08	1/2	12.7	08	3/4-16	19	25	0.25
C12222511-0810	C-0810-FJSH	R1AT/R2AT/FXP2	08	1/2	12.7	10	7/8-14	20	27	0.27
C12222511-0812	C-0812-FJSH	R1AT/R2AT/FXP2	08	1/2	12.7	12	1 1/16-12	22	32	0.29

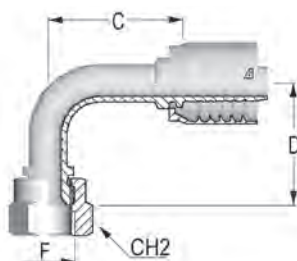
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AlfaCrimp One-Piece Fittings - C122



45° JIC Female Swivel 37° Seat Solid Bent Tube

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12222541-0404M	C-0404-FJ45	R1AT/R2AT/FXP2	04	1/4	6.4	04	7/16-20	37.5	15.5	15	0.13
C12222541-0405M	C-0405-FJ45	R1AT/R2AT/FXP2	04	1/4	6.4	05	1/2-20	41.0	15.5	17	0.14
C12222541-0406M	C-0406-FJ45	R1AT/R2AT/FXP2	04	1/4	6.4	06	9/16-18	34.0	15.0	19	0.15
C12222541-0506M	C-0506-FJ45	R1AT/R2AT/FXP2	05	5/16	7.9	06	9/16-18	38.0	16.0	19	0.20
C12222541-0606M	C-0606-FJ45	R1AT/R2AT/FXP2	06	3/8	9.5	06	9/16-18	48.0	17.5	19	0.20
C12222541-0608M	C-0608-FJ45	R1AT/R2AT/FXP2	06	3/8	9.5	08	3/4-16	45.0	20.0	25	0.26
C12222541-0808M	C-0808-FJ45	R1AT/R2AT/FXP2	08	1/2	12.7	08	3/4-16	55.0	20.0	25	0.32
C12222541-0810M	C-0810-FJ45	R1AT/R2AT/FXP2	08	1/2	12.7	10	7/8-14	51.5	25.0	27	0.35
C12222541-0812M	C-0812-FJ45	R1AT/R2AT/FXP2	08	1/2	12.7	12	1 1/16-12	48.0	20.5	32	0.48
C12222541-1010M	C-1010-FJ45	R1AT/R2AT/FXP2/AT3K	10	5/8	15.9	10	7/8-14	55.0	22.0	27	0.48
C12222541-1212M	C-1212-FJ45	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	12	1 1/16-12	62.0	24.0	32	0.61
C12222541-1216M	C-1216-FJ45	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	16	1 5/16-12	77.5	26.0	38	0.80
C12222541-1616M	C-1616-FJ45	R1AT/R2AT/FXP2/AT3K	16	1	25.4	16	1 5/16-12	90.0	34.0	38	1.07

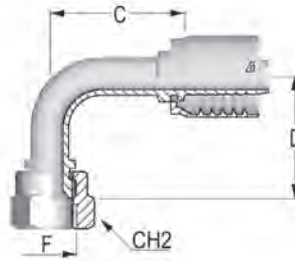


90° JIC Female Swivel 37° Seat Solid Bent Tube

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12222591-0404S	C-0404-FJ9S	R1AT/R2AT/FXP2	04	1/4	6.4	04	7/16-20	25.5	21.0	16	0.13
C12222591-0404M	C-0404-FJ9M	R1AT/R2AT/FXP2	04	1/4	6.4	04	7/16-20	25.5	32.0	16	0.15
C12222591-0404L	C-0404-FJ9L	R1AT/R2AT/FXP2	04	1/4	6.4	04	7/16-20	25.5	46.0	16	0.17
C12222591-0405S	C-0405-FJ9S	R1AT/R2AT/FXP2	04	1/4	6.4	05	1/2-20	26.0	21.0	17	0.15
C12222591-0405M	C-0405-FJ9M	R1AT/R2AT/FXP2	04	1/4	6.4	05	1/2-20	26.0	30.0	17	0.15
C12222591-0405L	C-0405-FJ9L	R1AT/R2AT/FXP2	04	1/4	6.4	05	1/2-20	26.0	45.0	17	0.19

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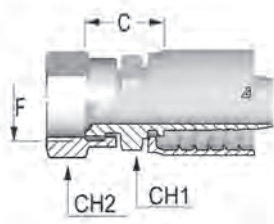


90° JIC Female Swivel 37° Seat Solid Bent Tube *continued*

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12222591-0406S	C-0406-FJ9S	R1AT/R2AT/FXP2	04	1/4	6.4	06	9/16-18	26.0	23.0	17	0.15
C12222591-0406M	C-0406-FJ9M	R1AT/R2AT/FXP2	04	1/4	6.4	06	9/16-18	26.0	38.0	17	0.17
C12222591-0406L	C-0406-FJ9L	R1AT/R2AT/FXP2	04	1/4	6.4	06	9/16-18	26.0	54.0	17	0.22
C12222591-0506S	C-0506-FJ9S	R1AT/R2AT/FXP2	05	5/16	7.9	06	9/16-18	31.5	23.0	19	0.20
C12222591-0506M	C-0506-FJ9M	R1AT/R2AT/FXP2	05	5/16	7.9	06	9/16-18	31.5	35.0	19	0.22
C12222591-0606S	C-0606-FJ9S	R1AT/R2AT/FXP2	06	3/8	9.5	06	9/16-18	32.5	23.0	19	0.20
C12222591-0606M	C-0606-FJ9M	R1AT/R2AT/FXP2	06	3/8	9.5	06	9/16-18	32.5	38.0	19	0.22
C12222591-0606L	C-0606-FJ9L	R1AT/R2AT/FXP2	06	3/8	9.5	06	9/16-18	32.5	54.0	19	0.26
C12222591-0608S	C-0608-FJ9S	R1AT/R2AT/FXP2	06	3/8	9.5	08	3/4-16	32.5	29.0	25	0.27
C12222591-0608M	C-0608-FJ9M	R1AT/R2AT/FXP2	06	3/8	9.5	08	3/4-16	32.5	41.0	25	0.29
C12222591-0608L	C-0608-FJ9L	R1AT/R2AT/FXP2	06	3/8	9.5	08	3/4-16	32.5	64.0	25	0.32
C12222591-0808S	C-0808-FJ9S	R1AT/R2AT/FXP2	08	1/2	12.7	08	3/4-16	37.0	29.0	25	0.34
C12222591-0808M	C-0808-FJ9M	R1AT/R2AT/FXP2	08	1/2	12.7	08	3/4-16	37.0	40.0	25	0.35
C12222591-0808L	C-0808-FJ9L	R1AT/R2AT/FXP2	08	1/2	12.7	08	3/4-16	37.0	64.0	25	0.40
C12222591-0810S	C-0810-FJ9S	R1AT/R2AT/FXP2	08	1/2	12.7	10	7/8-14	38.0	32.0	27	0.37
C12222591-0810M	C-0810-FJ9M	R1AT/R2AT/FXP2	08	1/2	12.7	10	7/8-14	38.0	47.0	27	0.40
C12222591-0810L	C-0810-FJ9L	R1AT/R2AT/FXP2	08	1/2	12.7	10	7/8-14	38.0	65.0	27	0.41
C12222591-0812S	C-0812-FJ9S	R1AT/R2AT/FXP2	08	1/2	12.7	12	1 1/16-12	38.5	39.0	32	0.47
C12222591-0812M	C-0812-FJ9M	R1AT/R2AT/FXP2	08	1/2	12.7	12	1 1/16-12	38.5	47.0	32	0.48
C12222591-1010S	C-1010-FJ9S	R1AT/R2AT/FXP2/AT3K	10	5/8	15.9	10	7/8-14	49.0	32.0	27	0.54
C12222591-1010M	C-1010-FJ9M	R1AT/R2AT/FXP2/AT3K	10	5/8	15.9	10	1 1/16-14	49.0	47.0	27	0.56
C12222591-1212S	C-1212-FJ9S	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	12	1 1/16-12	53.5	46.0	32	0.81
C12222591-1212M	C-1212-FJ9M	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	12	1 3/16-12	53.5	54.0	32	0.86
C12222591-1212L	C-1212-FJ9L	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	12	1 1/16-12	53.5	95.0	32	0.62
C12222591-1216S	C-1216-FJ9S	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	16	1 5/16-12	54.0	53.0	38	0.90
C12222591-1216M	C-1216-FJ9M	R1AT/R2AT/FXP2/AT3K	12	3/4	25.4	16	1 5/16-12	54.0	71.0	38	0.99
C12222591-1616S	C-1616-FJ9S	R1AT/R2AT/FXP2/AT3K	16	1	25.4	16	1 5/8-12	72.0	56.0	38	1.28
C12222591-1616M	C-1616-FJ9M	R1AT/R2AT/FXP2/AT3K	16	1	25.4	16	1 5/16-12	72.0	71.5	38	1.41
C12222591-1616L	C-1616-FJ9L	R1AT/R2AT/FXP2/AT3K	16	1	25.4	16	1 5/16-12	72.0	96.0	38	1.50

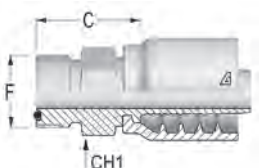
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AlfaCrimp One-Piece Fittings - C122



SAE Female Swivel 45° Seat

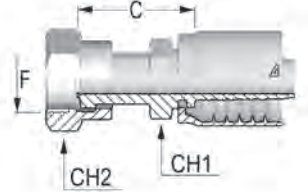
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12226611-0606	C-0606-FSAE	R1AT/R2AT/FXP2	06	3/8	9.5	06	5/8-18	22.3	19	22	0.20
C12226611-1212	C-1212-FSAE	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	12	1 1/16-14	29.6	27	32	0.52



ORFS Solid Male

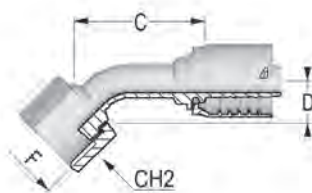
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12212410-0404	C-0404-MOFS	R1AT/R2AT/FXP2	04	1/4	6.4	04	9/16-18	25.3	17	0.13
C12212410-0406	C-0406-MOFS	R1AT/R2AT/FXP2	04	1/4	6.4	06	11/16-16	26.5	19	0.15
C12212410-0606	C-0606-MOFS	R1AT/R2AT/FXP2	06	3/8	9.5	06	11/16-16	26.5	19	0.18
C12212410-0608	C-0608-MOFS	R1AT/R2AT/FXP2	06	3/8	9.5	08	13/16-16	26.3	22	0.20
C12212410-0610	C-0610-MOFS	R1AT/R2AT/FXP2	06	3/8	9.5	10	1-14	29.8	27	0.26
C12212410-0808	C-0808-MOFS	R1AT/R2AT/FXP2	08	1/2	12.7	08	13/16-16	29.9	22	0.26
C12212410-0810	C-0810-MOFS	R1AT/R2AT/FXP2	08	1/2	12.7	10	1-14	30.6	27	0.31
C12212410-0812	C-0812-MOFS	R1AT/R2AT/FXP2	08	1/2	12.7	12	1 13/16-12	37.1	32	0.33
C12212410-1010	C-1010-MOFS	R1AT/R2AT/FXP2/AT3K	10	5/8	15.9	10	1-14	30.6	27	0.32
C12212410-1012	C-1012-MOFS	R1AT/R2AT/FXP2/AT3K	10	5/8	15.9	12	1 3/16-12	32.1	32	0.38
C12212410-1210	C-1210-MOFS	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	10	1-14	31.1	32	0.45
C12212410-1212	C-1212-MOFS	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	12	1 3/16-12	37.6	32	0.56
C12212410-1216	C-1216-MOFS	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	16	1 7/16-12	39.1	41	0.72
C12212410-1616	C-1616-MOFS	R1AT/R2AT/FXP2/AT3K	16	1	25.4	16	1 7/16-12	39.9	38	1.00
C12212410-1620	C-1620-MOFS	R1AT/R2AT/FXP2/AT3K	16	1	25.4	20	1 11/16-12	39.9	46	1.16

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ORFS Female

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12222411-0404	C-0404-FOFS	R1AT/R2AT/EXP2	04	1/4	6.4	04	9/16-18	27.5	17	19	0.14
C12222411-0406	C-0406-FOFS	R1AT/R2AT/EXP2	04	1/4	6.4	06	11/16-16	30.5	17	22	0.18
C12222411-0506	C-0506-FOFS	R1AT/R2AT/EXP2	05	5/16	7.9	06	11/16-16	30.0	19	22	0.21
C12222411-0606	C-0606-FOFS	R1AT/R2AT/EXP2	06	3/8	9.5	06	11/16-16	30.0	19	22	0.20
C12222411-0608	C-0608-FOFS	R1AT/R2AT/EXP2	06	3/8	9.5	08	13/16-16	35.0	22	27	0.28
C12222411-0808	C-0808-FOFS	R1AT/R2AT/EXP2	08	1/2	12.7	08	13/16-16	36.0	22	27	0.30
C12222411-0810	C-0810-FOFS	R1AT/R2AT/EXP2	08	1/2	12.7	10	1-14	39.5	27	30	0.41
C12222411-1010	C-1010-FOFS	R1AT/R2AT/EXP2/AT3K	10	5/8	15.9	10	1-14	39.5	27	30	0.47
C12222411-1012	C-1012-FOFS	R1AT/R2AT/EXP2/AT3K	10	5/8	15.9	12	1 3/16-12	39.5	27	30	0.65
C12222411-1212	C-1212-FOFS	R1AT/R2AT/EXP2/AT3K	12	3/4	19.0	12	1 3/16-12	42.5	30	36	0.68
C12222411-1216	C-1216-FOFS	R1AT/R2AT/EXP2/AT3K	12	3/4	19.0	16	1 7/16-12	45.5	36	41	0.85
C12222411-1616	C-1616-FOFS	R1AT/R2AT/EXP2/AT3K	16	1	25.4	16	1 7/16-12	46.5	36	41	1.13

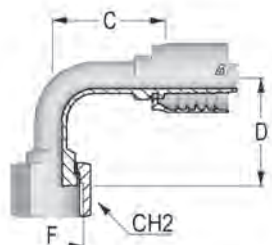


45° ORFS Female Solid Bent Tube

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12222443-0404M	C-0404-F045	R1AT/R2AT/EXP2	04	1/4	6.4	04	9/16-18	37.5	11.0	19	0.13
C12222443-0406M	C-0406-F045	R1AT/R2AT/EXP2	04	1/4	6.4	06	11/16-16	43.0	11.0	22	0.18
C12222443-0506M	C-0506-F045	R1AT/R2AT/EXP2	05	5/16	7.9	06	11/16-16	39.0	12.0	22	0.21
C12222443-0606M	C-0606-F045	R1AT/R2AT/EXP2	06	3/8	9.5	06	11/16-16	49.0	12.0	22	0.21
C12222443-0608M	C-0608-F045	R1AT/R2AT/EXP2	06	3/8	9.5	08	13/16-16	41.0	15.0	27	0.26
C12222443-0810M	C-0810-F045	R1AT/R2AT/EXP2	08	1/2	12.7	10	1-14	50.0	16.5	30	0.38
C12222443-1010M	C-1010-F045	R1AT/R2AT/EXP2/AT3K	10	5/8	15.9	10	1-14	55.0	17.0	30	0.51
C12222443-1212M	C-1212-F045	R1AT/R2AT/EXP2/AT3K	12	3/4	19.0	12	1 3/16-12	72.5	21.0	36	0.76
C12222443-1616M	C-1616-F045	R1AT/R2AT/EXP2/AT3K	16	1	25.4	16	1 7/16-12	95.0	26.0	41	1.28

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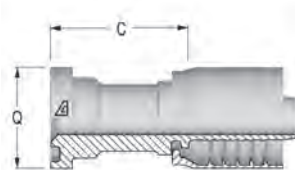
AlfaCrimp One-Piece Fittings - C122



90° ORFS Female Solid Bent Tube ISO 12151-1

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12222493-0404S	C-0404-F09S	R1AT/R2AT/FXP2	04	1/4	6.4	04	9/16-18	25.5	21.0	17	0.13
C12222493-0404M	C-0404-F09M	R1AT/R2AT/FXP2	04	1/4	6.4	04	9/16-18	25.5	32.0	17	0.15
C12222493-0404L	C-0404-F09L	R1AT/R2AT/FXP2	04	1/4	6.4	04	9/16-18	25.5	46.0	17	0.17
C12222493-0406S	C-0406-F09S	R1AT/R2AT/FXP2	04	1/4	6.4	06	11/16-16	26.0	23.0	22	0.18
C12222493-0406M	C-0406-F09M	R1AT/R2AT/FXP2	04	1/4	6.4	06	11/16-16	26.0	38.0	22	0.21
C12222493-0406L	C-0406-F09L	R1AT/R2AT/FXP2	04	1/4	6.4	06	11/16-16	26.0	54.0	22	0.21
C12222493-0506S	C-0506-F09S	R1AT/R2AT/FXP2	05	5/16	7.9	06	11/16-16	32.0	25.0	22	0.23
C12222493-0506M	C-0506-F09M	R1AT/R2AT/FXP2	05	5/16	7.9	06	11/16-16	32.0	34.0	22	0.25
C12222493-0506L	C-0506-F09L	R1AT/R2AT/FXP2	05	5/16	7.9	06	11/16-16	32.0	54.0	22	0.26
C12222493-0606S	C-0606-F09S	R1AT/R2AT/FXP2	06	3/8	9.5	06	11/16-16	32.0	25.0	22	0.22
C12222493-0606M	C-0606-F09M	R1AT/R2AT/FXP2	06	3/8	9.5	06	11/16-16	32.0	38.0	22	0.23
C12222493-0606L	C-0606-F09L	R1AT/R2AT/FXP2	06	3/8	9.5	06	11/16-16	32.0	54.0	22	0.27
C12222493-0608S	C-0608-F09S	R1AT/R2AT/FXP2	06	3/8	9.5	08	13/16-16	35.0	29.0	24	0.26
C12222493-0608M	C-0608-F09M	R1AT/R2AT/FXP2	06	3/8	9.5	08	13/16-16	35.0	41.0	24	0.29
C12222493-0608L	C-0608-F09L	R1AT/R2AT/FXP2	06	3/8	9.5	08	13/16-16	35.0	64.0	24	0.32
C12222493-0810S	C-0810-F09S	R1AT/R2AT/FXP2	08	1/2	12.7	10	1-14	37.0	32.5	30	0.34
C12222493-0810M	C-0810-F09M	R1AT/R2AT/FXP2	08	1/2	12.7	10	1-14	37.0	47.0	30	0.45
C12222493-0810L	C-0810-F09L	R1AT/R2AT/FXP2	08	1/2	12.7	10	1-14	37.0	70.0	30	0.49
C12222493-1010S	C-1010-F09S	R1AT/R2AT/FXP2/AT3K	10	5/8	15.9	10	1-14	48.0	32.5	30	0.52
C12222493-1010M	C-1010-F09M	R1AT/R2AT/FXP2/AT3K	10	5/8	15.9	10	1-14	48.0	44.0	30	0.57
C12222493-1212S	C-1212-F09S	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	12	1 3/16-12	50.0	50.0	36	0.84
C12222493-1212M	C-1212-F09M	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	12	1 3/16-12	50.0	58.0	36	0.87
C12222493-1616S	C-1616-F09S	R1AT/R2AT/FXP2/AT3K	16	1	25.4	16	1 7/16-12	70.5	58.0	41	1.42
C12222493-1616M	C-1616-F09M	R1AT/R2AT/FXP2/AT3K	16	1	25.4	16	1 7/16-12	70.5	66.0	41	1.47

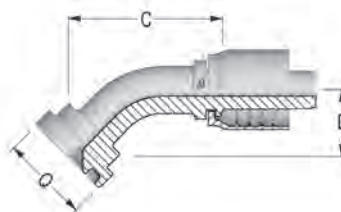
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



For Split Flange Clamps
please refer to page 236.

O-Ring Flange SAE J518 Code 61 Straight

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	Max. Working Pressure (psi)	Weight Each (lbs.)
				(in.)	(mm)	(in.)	(mm)			
C12243310-0808	C-0808-C61S	R1AT/R2AT/FXP2	08	1/2	12.7	1.19	30.2	41.0	5000	0.34
C12243310-0812	C-0812-C61S	R1AT/R2AT/FXP2	08	1/2	12.7	1.50	38.1	42.0	5000	0.43
C12243310-1212	C-1212-C61S	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	1.50	38.1	42.5	5000	0.59
C12243310-1216	C-1216-C61S	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	1.75	44.5	50.5	5000	0.71
C12243310-1616	C-1616-C61S	R1AT/R2AT/FXP2/AT3K	16	1	25.4	1.75	44.5	51.5	5000	1.14



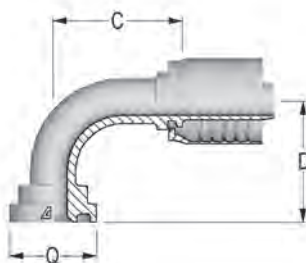
For Split Flange Clamps
please refer to page 236.

45° O-Ring Flange SAE J518 Code 61 Solid Bent Tube

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max. Working Pressure (psi)	Weight Each (lbs.)
				(in.)	(mm)	(in.)	(mm)				
C12243340-0808	C-0808-C614	R1AT/R2AT/FXP2	08	1/2	12.7	1.19	30.2	53.0	22	5000	0.35
C12243340-0812	C-0812-C614	R1AT/R2AT/FXP2	08	1/2	12.7	1.50	38.1	57.0	26	5000	0.46
C12243340-1212	C-1212-C614	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	1.50	38.1	67.5	25	5000	0.65
C12243340-1216	C-1216-C614	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	1.75	44.5	71.0	30	5000	0.73
C12243340-1616	C-1616-C614	R1AT/R2AT/FXP2/AT3K	16	1	25.4	1.75	44.5	80.0	29	5000	1.23
C12243340-1620	C-1620-C614	R1AT/R2AT/FXP2/AT3K	16	1	25.4	2.00	50.8	97.0	31	5000	1.30

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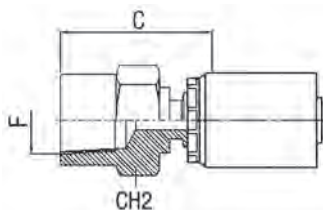
AlfaCrimp One-Piece Fittings - C122



For Split Flange Clamps
please refer to page 236.

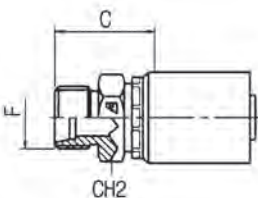
90° Flange SAE J518 Code 61 Solid Bent Tube

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max. Working Pressure (psi)	Weight Each (lbs.)
				(in.)	(mm)	(in.)	(mm)				
C12243390-0808	C-0808-C619	R1AT/R2AT/FXP2	08	1/2	12.7	1.19	30.2	45.0	42.0	5000	0.38
C12243390-0812	C-0812-C619	R1AT/R2AT/FXP2	08	1/2	12.7	1.50	38.1	45.5	51.0	5000	0.51
C12243390-1212	C-1212-C619	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	1.50	38.1	61.0	56.5	5000	0.84
C12243390-1216	C-1216-C619	R1AT/R2AT/FXP2/AT3K	12	3/4	19.0	1.75	44.5	61.0	59.5	5000	1.13
C12243390-1616	C-1616-C619	R1AT/R2AT/FXP2/AT3K	16	1	25.4	1.75	44.5	70.5	64.0	5000	1.26
C12243390-1620	C-1620-C619	R1AT/R2AT/FXP2/AT3K	16	1	25.4	2.00	50.8	70.5	67.0	5000	1.40



Female Grease Tap

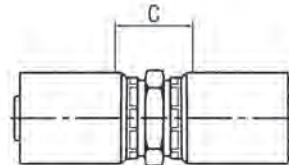
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread	C Cut-Off Factor (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	(in.)			
C12229710-0404	C-0404-FGRT	R1AT/R2AT/FXP2	04	1/4	6.4	1/2-27	23.3	19	0.13



Bite Type Tube Fitting

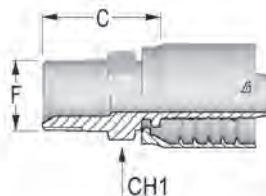
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread Size	C Cut-Off Factor (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	(in.)			
C12213B10-0404	C-0404-BTTF	R1AT/R2AT/FXP2	04	1/4	6.4	7/16-20	24.8	12	0.12
C12213B10-0606	C-0606-BTTF	R1AT/R2AT/FXP2	06	3/8	9.5	9/16-18	26.2	16	0.16
C12213B10-0808	C-0808-BTTF	R1AT/R2AT/FXP2	08	1/2	12.7	3/4-16	30.4	22	0.22

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Hose Mender

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		C Cut-Off Factor (mm)	Weight Each (lbs.)
				(in.)	(mm)		
C122C5610-0505	C-0505-HMEN	R1AT/R2AT/EXP2	05	5/16	7.9	13.6	0.12
C122C5610-0606	C-0606-HMEN	R1AT/R2AT/EXP2	06	3/8	9.5	13.6	0.13
C122C5610-0808	C-0808-HMEN	R1AT/R2AT/EXP2	08	1/2	12.7	15.2	0.18

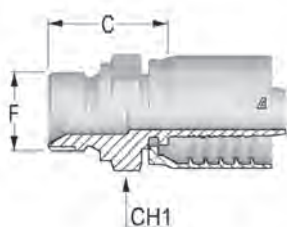


BSP/JIS Solid Male Tapered

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12210710-0402	C-0402-MBPT	R1AT/R2AT/EXP2	04	1/4	6.4	02	1/8-28	22.3	12	0.09
C12210710-0404	C-0404-MBPT	R1AT/R2AT/EXP2	04	1/4	6.4	04	1/4-19	26.3	17	0.12
C12210710-0406	C-0406-MBPT	R1AT/R2AT/EXP2	04	1/4	6.4	06	3/8-19	26.3	19	0.13
C12210710-0506	C-0506-MBPT	R1AT/R2AT/EXP2	05	5/16	7.9	06	3/8-19	26.3	19	0.16
C12210710-0606	C-0606-MBPT	R1AT/R2AT/EXP2	06	3/8	9.5	06	3/8-19	26.3	19	0.15
C12210710-0608	C-0608-MBPT	R1AT/R2AT/EXP2	06	3/8	9.5	08	1/2-14	33.3	22	0.22
C12210710-0808	C-0808-MBPT	R1AT/R2AT/EXP2	08	1/2	12.7	08	1/2-14	34.1	22	0.25

For sizes -10 and above for use on R1AT / R2AT, see C124 Series.

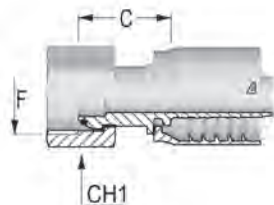
AlfaCrimp One-Piece Fittings - C122



BSP Solid Male Parallel 60° Seat

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12210510-0402	C-0402-MBPP	R1AT/R2AT/FXP2	04	1/4	6.4	02	1/8-28	21.7	14	0.10
C12210510-0404	C-0404-MBPP	R1AT/R2AT/FXP2	04	1/4	6.4	04	1/4-19	26.3	19	0.13
C12210510-0406	C-0406-MBPP	R1AT/R2AT/FXP2	04	1/4	6.4	06	3/8-19	27.8	22	0.16
C12210510-0506	C-0506-MBPP	R1AT/R2AT/FXP2	05	5/16	7.9	06	3/8-19	27.8	22	0.18
C12210510-0606	C-0606-MBPP	R1AT/R2AT/FXP2	06	3/8	9.5	06	3/8-19	27.8	22	0.18
C12210510-0608	C-0608-MBPP	R1AT/R2AT/FXP2	06	3/8	9.5	08	1/2-14	31.3	27	0.25
C12210510-0806	C-0806-MBPP	R1AT/R2AT/FXP2	08	1/2	12.7	06	3/8-19	28.6	22	0.22
C12210510-0808	C-0808-MBPP	R1AT/R2AT/FXP2	08	1/2	12.7	08	1/2-14	32.1	27	0.28
C12210510-0810	C-0810-MBPP	R1AT/R2AT/FXP2	08	1/2	12.7	10	5/8-14	36.1	30	0.35
C12210510-0812	C-0812-MBPP	R1AT/R2AT/FXP2	08	1/2	12.7	12	3/4-14	34.1	32	0.35

For sizes -10 and above for use on R1AT / R2AT, see C124 (D) Series or C12A (B).

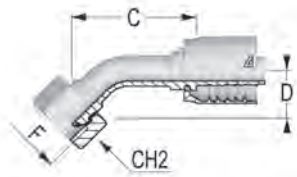


BSP O-Ring Female Swivel 60° Cone

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12220813-0404	C-0404-FBPO	R1AT/R2AT/FXP2	04	1/4	6.4	04	1/4-19	16	14	0.10
C12220813-0406	C-0406-FBPO	R1AT/R2AT/FXP2	04	1/4	6.4	06	3/8-19	16	19	0.13
C12220813-0506	C-0506-FBPO	R1AT/R2AT/FXP2	05	5/16	7.9	06	3/8-19	18	22	0.16
C12220813-0606	C-0606-FBPO	R1AT/R2AT/FXP2	06	3/8	9.5	06	3/8-19	17	22	0.18
C12220813-0608	C-0608-FBPO	R1AT/R2AT/FXP2	06	3/8	9.5	08	1/2-14	17	22	0.18
C12220813-0808	C-0808-FBPO	R1AT/R2AT/FXP2	08	1/2	12.7	08	1/2-14	18	27	0.25
C12220813-0810	C-0810-FBPO	R1AT/R2AT/FXP2	08	1/2	12.7	10	5/8-14	17	22	0.22
C12220813-0812	C-0812-FBPO	R1AT/R2AT/FXP2	08	1/2	12.7	12	3/4-14	22	27	0.28

For sizes -10 and above for use on R1AT / R2AT, see C124 (D) Series or C12A (B).

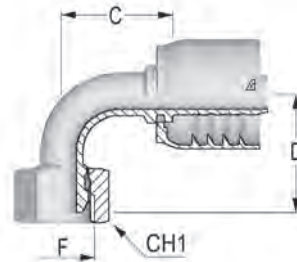
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45° BSP O-Ring Female Swivel 60° Cone Solid Bent Tube

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12220843-0404	C-0404-FB04	R1AT/R2AT/FXP2	04	1/4	6.4	04	1/4-19	44.5	15.0	19	0.15
C12220843-0406	C-0406-FB04	R1AT/R2AT/FXP2	04	1/4	6.4	06	3/8-19	46.0	17.0	22	0.18
C12220843-0506	C-0506-FB04	R1AT/R2AT/FXP2	05	5/16	7.9	06	3/8-19	50.5	18.0	22	0.21
C12220843-0606	C-0606-FB04	R1AT/R2AT/FXP2	06	3/8	9.5	06	3/8-19	52.0	17.0	22	0.21
C12220843-0608	C-0608-FB04	R1AT/R2AT/FXP2	06	3/8	9.5	08	1/2-14	55.0	19.0	27	0.21
C12220843-0808	C-0808-FB04	R1AT/R2AT/FXP2	08	1/2	12.7	08	1/2-14	56.0	19.0	27	0.30
C12220843-0810	C-0810-FB04	R1AT/R2AT/FXP2	08	1/2	12.7	10	5/8-14	46.0	18.5	27	0.32
C12220843-0812	C-0812-FB04	R1AT/R2AT/FXP2	08	1/2	12.7	12	3/4-14	48.0	20.5	32	0.08

For sizes -10 and above for use on R1AT / R2AT, see C124 Series.



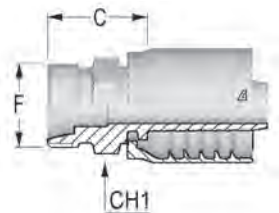
90° BSP O-Ring Female Swivel 60° Cone Solid Bent Tube

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12220893-0404	C-0404-FB09	R1AT/R2AT/FXP2	04	1/4	6.4	04	1/4-19	29.3	29.0	19	0.15
C12220893-0406	C-0406-FB09	R1AT/R2AT/FXP2	04	1/4	6.4	06	3/8-19	28.0	30.5	22	0.18
C12220893-0506	C-0506-FB09	R1AT/R2AT/FXP2	05	5/16	7.9	06	3/8-19	34.0	35.5	22	0.23
C12220893-0606	C-0606-FB09	R1AT/R2AT/FXP2	06	3/8	9.5	06	3/8-19	35.5	34.5	22	0.22
C12220893-0608	C-0608-FB09	R1AT/R2AT/FXP2	06	3/8	9.5	08	1/2-14	33.0	36.0	27	0.27
C12220893-0808	C-0808-FB09	R1AT/R2AT/FXP2	08	1/2	12.7	08	1/2-14	40.0	37.5	27	0.33
C12220893-0810	C-0810-FB09	R1AT/R2AT/FXP2	08	1/2	12.7	10	5/8-14	37.0	37.5	27	0.32
C12220893-0812	C-0812-FB09	R1AT/R2AT/FXP2	08	1/2	12.7	12	3/4-14	37.0	40.0	32	0.41

For sizes -10 and above for use on R1AT / R2AT, see C124 Series.

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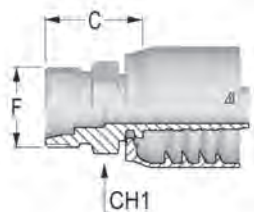
AlfaCrimp One-Piece Fittings - C122



Metric Solid Male 24° Seat DIN 3853 – Light

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		Tube O.D. (mm)	C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (mmxTPmm)				
C12211110-0414	C-0414-MMSL	R1AT/R2AT/FXP2	04	1/4	6.4	14	M14x1.5	8	22.3	14	0.10
C12211110-0416	C-0416-MMSL	R1AT/R2AT/FXP2	04	1/4	6.4	16	M16x1.5	10	23.3	17	0.11
C12211110-0516	C-0516-MMSL	R1AT/R2AT/FXP2	05	5/16	7.9	16	M16x1.5	10	23.3	17	0.14
C12211110-0518	C-0518-MMSL	R1AT/R2AT/FXP2	05	5/16	7.9	18	M18x1.5	12	23.3	19	0.15
C12211110-0616	C-0616-MMSL	R1AT/R2AT/FXP2	06	3/8	9.5	16	M16x1.5	10	23.3	17	0.13
C12211110-0618	C-0618-MMSL	R1AT/R2AT/FXP2	06	3/8	9.5	18	M18x1.5	12	23.3	19	0.14
C12211110-0622	C-0622-MMSL	R1AT/R2AT/FXP2	06	3/8	9.5	22	M22x1.5	15	25.3	22	0.17
C12211110-0822	C-0822-MMSL	R1AT/R2AT/FXP2	08	1/2	12.7	22	M22x1.5	15	26.1	22	0.21
C12211110-0826	C-0826-MMSL	R1AT/R2AT/FXP2	08	1/2	12.7	26	M26x1.5	18	27.1	27	0.28

For sizes -10 and above for use on R1AT / R2AT, see C124 Series.

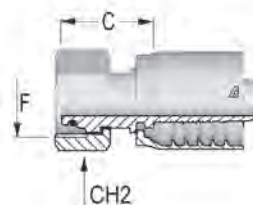


Metric Solid Male 24° Seat DIN 3861 – Heavy

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread Size (mmxTPmm)	Tube O.D. (mm)	C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)					
C12211210-0418	C-0418-MMSH	R1AT/R2AT/FXP2	04	1/4	6.4	M18x1.5	10	24.3	19	0.13
C12211210-0520	C-0520-MMSH	R1AT/R2AT/FXP2	05	5/16	7.9	M20x1.5	12	25.3	22	0.18
C12211210-0620	C-0620-MMSH	R1AT/R2AT/FXP2	06	3/8	9.5	M20x1.5	12	25.3	22	0.17
C12211210-0622	C-0622-MMSH	R1AT/R2AT/FXP2	06	3/8	9.5	M22x1.5	14	27.3	22	0.19
C12211210-0824	C-0824-MMSH	R1AT/R2AT/FXP2	08	1/2	12.7	M24x1.5	16	29.1	24	0.24

For sizes -10 and above for use on R1AT / R2AT, see C124 Series.

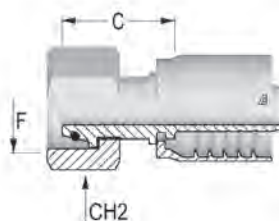
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



Metric Swivel Female O-Ring 24° Seat DIN 3865 – Light

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		Tube O.D. (mm)	C Cut-Off Factor (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (mmxTPmm)				
C12221513-0414	C-0414-FMOL	R1AT/R2AT/FXP2	04	1/4	6.4	14	M14x1.5	8	23.8	17	0.12
C12221513-0416	C-0416-FMOL	R1AT/R2AT/FXP2	04	1/4	6.4	16	M16x1.5	10	24.8	19	0.14
C12221513-0516	C-0516-FMOL	R1AT/R2AT/FXP2	05	5/16	7.9	16	M16x1.5	10	24.8	19	0.16
C12221513-0616	C-0616-FMOL	R1AT/R2AT/FXP2	06	3/8	9.5	16	M16x1.5	10	24.8	19	0.17
C12221513-0618	C-0618-FMOL	R1AT/R2AT/FXP2	06	3/8	9.5	18	M18x1.5	12	24.8	22	0.18
C12221513-0822	C-0822-FMOL	R1AT/R2AT/FXP2	08	1/2	12.7	22	M22x1.5	15	27.6	27	0.27

For sizes -10 and above for use on R1AT / R2AT, see C124 Series.

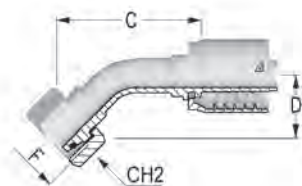


Metric Swivel Female O-Ring 24° Seat DIN 3865 – Heavy

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread (mmxTPmm)	Tube O.D. (mm)	C Cut-Off Factor (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)					
C12221613-0416	C-0416-FMOH	R1AT/R2AT/FXP2	04	1/4	6.4	M16x1.5	8	27.0	19	0.13
C12221613-0418	C-0418-FMOH	R1AT/R2AT/FXP2	04	1/4	6.4	M18x1.5	10	27.0	22	0.17
C12221613-0520	C-0520-FMOH	R1AT/R2AT/FXP2	05	5/16	7.9	M20x1.5	12	27.0	24	0.22
C12221613-0620	C-0620-FMOH	R1AT/R2AT/FXP2	06	3/8	9.5	M20x1.5	12	27.0	24	0.21
C12221613-0622	C-0622-FMOH	R1AT/R2AT/FXP2	06	3/8	9.5	M22x1.5	14	30.5	27	0.27
C12221613-0824	C-0824-FMOH	R1AT/R2AT/FXP2	08	1/2	12.7	M24x1.5	16	31.3	30	0.34

For sizes -10 and above for use on R1AT / R2AT, see C124 Series.

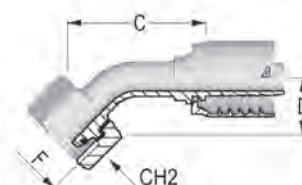
AlfaCrimp One-Piece Fittings - C122



45° Metric O-Ring Female Swivel 24° Seat DIN 3865 – Light – Solid Bent Tube

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		Tube O.D. (mm)	C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (mmxTPmm)					
C12221543-0414	C-0414-FM4L	R1AT/R2AT/FXP2	04	1/4	6.4	14	M14x1.5	8	43.0	17.5	17	0.14
C12221543-0416	C-0416-FM4L	R1AT/R2AT/FXP2	04	1/4	6.4	16	M16x1.5	10	40.0	18.0	19	0.16
C12221543-0516	C-0516-FM4L	R1AT/R2AT/FXP2	05	5/16	7.9	16	M16x1.5	10	51.0	19.0	19	0.20
C12221543-0618	C-0618-FM4L	R1AT/R2AT/FXP2	06	3/8	9.5	18	M18x1.5	12	51.5	19.0	22	0.22
C12221543-0822	C-0822-FM4L	R1AT/R2AT/FXP2	08	1/2	12.7	22	M22x1.5	15	57.0	20.5	27	0.32

For sizes -10 and above for use on R1AT / R2AT, see C124 Series.

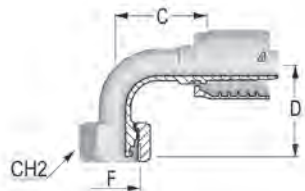


45° Metric O-Ring Female Swivel 24° Seat DIN 3865 – Heavy – Solid Bent Tube

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		Tube O.D. (mm)	C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (mmxTPmm)					
C12221643-0418	C-0418-FM4H	R1AT/R2AT/FXP2	04	1/4	6.4	18	M18x1.5	10	40.5	18.5	22	0.17
C12221643-0520	C-0520-FM4H	R1AT/R2AT/FXP2	05	5/16	7.9	20	M20x1.5	12	51.0	17.0	24	0.25
C12221643-0620	C-0620-FM4H	R1AT/R2AT/FXP2	06	3/8	9.5	20	M20x1.5	12	53.0	20.0	24	0.24
C12221643-0622	C-0622-FM4H	R1AT/R2AT/FXP2	06	3/8	9.5	22	M22x1.5	14	53.0	22.0	27	0.29
C12221643-0824	C-0824-FM4H	R1AT/R2AT/FXP2	08	1/2	12.7	24	M24x1.5	16	45.5	21.5	30	0.37

For sizes -10 and above for use on R1AT / R2AT, see C124 Series.

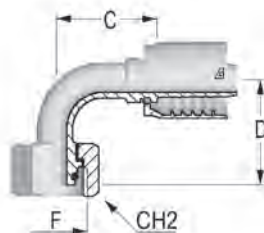
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



90° Metric O-Ring Female Swivel 24° Seat DIN 3865 – Light – Solid Bent Tube

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		Tube O.D. (mm)	C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (mmxTPmm)					
C12221593-0414	C-0414-FM9L	R1AT/R2AT/FXP2	04	1/4	6.4	14	M14x1.5	8	26.5	32.5	17	0.14
C12221593-0416	C-0416-FM9L	R1AT/R2AT/FXP2	04	1/4	6.4	16	M16x1.5	10	26.0	32.5	19	0.16
C12221593-0516	C-0516-FM9L	R1AT/R2AT/FXP2	05	5/16	7.9	16	M16x1.5	10	32.5	38.0	19	0.21
C12221593-0618	C-0618-FM9L	R1AT/R2AT/FXP2	06	3/8	9.5	18	M18x1.5	12	32.0	37.0	22	0.22
C12221593-0822	C-0822-FM9L	R1AT/R2AT/FXP2	08	1/2	12.7	22	M22x1.5	15	38.5	40.5	27	0.33

For sizes -10 and above for use on R1AT / R2AT, see C124 Series.



90° Metric O-Ring Female Swivel 24° Seat DIN 3865 – Heavy – Solid Bent Tube

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		Tube O.D. (mm)	C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (mmxTPmm)					
C12221693-0418	C-0418-FM9H	R1AT/R2AT/FXP2	04	1/4	6.4	18	M18x1.5	10	26.0	34.0	22	0.19
C12221693-0520	C-0520-FM9H	R1AT/R2AT/FXP2	05	5/16	7.9	20	M20x1.5	12	32.5	39.0	24	0.26
C12221693-0620	C-0620-FM9H	R1AT/R2AT/FXP2	06	3/8	9.5	20	M20x1.5	12	36.5	38.5	24	0.25
C12221693-0622	C-0622-FM9H	R1AT/R2AT/FXP2	06	3/8	9.5	22	M22x1.5	14	36.5	41.0	27	0.30
C12221693-0824	C-0824-FM9H	R1AT/R2AT/FXP2	08	1/2	12.7	24	M24x1.5	16	38.5	41.5	30	0.39

For sizes -10 and above for use on R1AT / R2AT, see C124 Series.

One-Piece AlfaCrimp C12A Fittings Index

NPTF



NPTF Male 60° Seat..... 122



NPTF Male Swivel 60° Seat..... 123



NPTF Solid Female 124



NPSM Female 124



90° Compact NPTF Male Swivel
60° Seat..... **NEW** 123

JIC



JIC Male 37° Cone 127



JIC Female 37° Seat **NEW** 128



JIC Female 37° Seat Dual Hex..... 129



45° JIC Female 37° Seat Solid
One-Piece 130



90° JIC Female 37° Seat Short Drop
Solid One-Piece..... 131



90° JIC Female 37° Seat Medium Drop
Solid One-Piece..... 132



90° JIC Female 37° Seat Long Drop
Solid One-Piece..... 133

SAE



SAE Solid Male O-Ring Boss..... 125

SAE (continued)



SAE Male Swivel
O-Ring Boss **NEW** 125



Bite Type Tube Fitting..... 126



SAE Male 90° Compact Swivel
O-Ring Boss **NEW** 126



SAE Female Swivel 45° Seat..... 134

ORFS



ORFS Male 134



ORFS Female with Stem
Hexagon 135



45° ORFS Female Solid
One-Piece 136



90° ORFS Female Short Drop Solid
One-Piece 137



90° ORFS Female Medium Drop Solid
One-Piece 138



90° ORFS Female Long Drop Solid
One-Piece 138

SAE Flange Code 61



Flange SAE 3000 PSI J518
Code 61 139



45° Flange SAE 3000 PSI J518 Code 61
Solid One-Piece..... 139



90° Flange SAE 3000 PSI J518 Code 61
Solid One-Piece..... 140

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One-Piece AlfaCrimp C12A Fittings Index

SAE Flange Code 62

 Flange SAE 6000 PSI J518
Code 62..... 140

 45° Flange SAE 6000 PSI J518 Code 62
Solid One-Piece..... 141

 90° Flange SAE 6000 PSI J518 Code 62
Solid One-Piece..... 141

BSP

 BSPP Female 60° Cone with
O-Ring..... 143

 BSPP Female Flat Seat **NEW** 143

 BSPP Male Parallel 60° Flare..... 142

 BSP/JIS Male Tapered 142

 45° BSPP Female 60° cone with O-Ring
45 Solid One-Piece..... 144

 90° Compact BSPP Female
60° Cone..... **NEW** 144

 90° BSPP Female 60° Cone with O-Ring
Solid One-Piece..... 145

Metric

 Metric Straight Standpipe
DIN 2353..... **NEW** 145

 Metric Male 24° Seat - Light
DIN 3853..... 146

 Metric Female 24° Cone with O-Ring
- Light DIN 3865..... 146

 45° Metric Female 24° Cone with
O-Ring - Light DIN 3865 Solid
One-Piece 147

 90° Metric Female 24° Cone with
O-Ring - Light DIN 3865 Solid
One-Piece 147

 Metric Male 24° Seat - Heavy
DIN 3853..... 148

 Metric Female 24° Cone with O-Ring
- Heavy DIN 3865..... 148

 45° Metric Female 24° Cone with
O-Ring - Heavy DIN 3865 Solid
One-Piece 149

 90° Metric Female 24° Cone with
O-Ring - Heavy DIN 3865 Solid One-
Piece..... 149

JIS

 JIS Female 60° Seat Flare B 8363
(type F)..... **NEW** 133

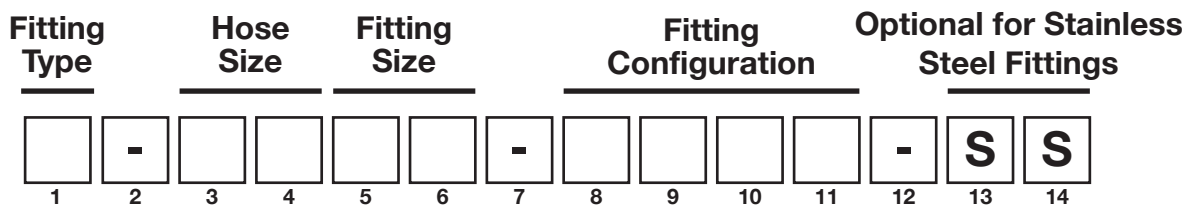
 Komatsu Female..... **NEW** 150

Other

 Hose Mender..... **NEW** 122

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Fitting Configuration Chart



1-Piece

B – C12A
Q – C121
C – C122
D – C124
F – C126
H – C12H
M – C12R

2-Piece

A – H12
X – H14
Z – H1T
K – H1K

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-14 or 7/8"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-14 or 7/8"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

Fitting Configuration Chart – Fitting Type Explanation

B – C12A – One piece non-skive crimp fitting for all braided hoses up to 1" ID.
Q – C121 – One piece non-skive crimp fitting for Alfatech 3000 (AT3KMT) hose and Alfajet 210 (TAJ3BK/TAJ3BU) 1/4" ID thru 1/2" ID only, while supplies last.

C – C122 – One piece non-skive crimp fitting for braided hose except Alfatech 3000 (AT3KMT) and Alfajet 210 (TAJ3BK/TAJ3BU) 1/4" ID thru 1/2" ID only, while supplies last.

D – C124 – One piece non-skive crimp fitting for SAE 100R1 and 100R2 wire braided hose and 4 wire spiral hose Flexor 12 (TR12) 1/2" ID thru 2" ID and Alfabiotech 3000 1 1/4" thru 2".

F – C126 – One piece non-skive crimp fitting for Flexor 12 (TR12), 4SH (T4SH), Flexor 13 (TR13), Alfatech 5000, Alfabiotech 5000 3/4" thru 1 1/2" and Alfabiotech 6000 3/4" thru 1 1/4".

H – C12H – One piece non-skive crimp fitting for 4SH (T4SH) in 2" size only.

M – C12R – One Piece non-skive crimp fitting for Flexor 13 (TR13) in 2" size only.

A – H12 – Two piece insert for all wire and textile braided hoses, thermoplastic hose, Flexor 4 and PTFE hose 3/16" thru 2" and Flexor 12 (TR12) 1/2" thru 1 1/2" along with some spiral wire reinforced hoses thru 1 1/2".

X – H14 – Two piece Interlock insert for spiral wire reinforced hoses. Requires both internal and external skiving and a XF1 or XF2 Interlock ferrule to perform properly.

Z – H1T – Two piece Interlock insert for Alfatech 6000 (AT6K) in 2" size only. Requires both internal and external skiving and a ZF1 Interlock ferrule to perform properly.

K – H1K – Two piece insert for Flexor Rig 48, 3" ID size only. Requires a KS1 skive ferrule to perform properly.

TYPE	SUFFIX	DESCRIPTION
NPTF	FNPR	Female National Pipe Rigid
	FPMS	Female Pipe Straight Mechanical Swivel
	FNPS	Female National Pipe Swivel
	MNPT	Male Pipe NPTF
	MNPS	Male National Pipe Swivel
	MPS9	Male Pipe Swivel 90 Degree
JIC	FJSH	Female JIC Single Hex Swivel
	FJDH	Female JIC Double Hex Swivel
	FJ45	Female JIC 45 Degree Swivel
	FJ9L	Female JIC 90 Degree Long Swivel
	FJ9M	Female JIC 90 Degree Medium Swivel
	FJ9S	Female JIC 90 Degree Short Swivel
	MJIC	Male JIC
SAE	FSAE	Female SAE Swivel
	MORB	Male O-Ring Boss
	MOBS	Male O-Ring Boss Swivel
	MBS9	Male O-Ring Boss Swivel 90 Degree
	MIFL	Male Inverted Flare
	MIF4	Male Inverted Flare 45 Degree
	MIF9	Male Inverted Flare 90 Degree
	MSAE	Male SAE
ORFS	FOFS	Female O-Ring Face Seal Swivel
	F030	Female O-Ring Face Seal 30 Degree Medium Swivel
	F045	Female O-Ring Face Seal 45 Degree Swivel
	F09L	Female O-Ring Face Seal 90 Degree Long Swivel
	F09M	Female O-Ring Face Seal 90 Degree Medium Swivel
	F09S	Female O-Ring Face Seal 90 Degree Short Swivel
	MOFS	Male O-Ring Face Seal
SAE Flange Code 61	C61S	Code 61 Flange Straight
	C612	Code 61 Flange 22 Degree
	C613	Code 61 Flange 30 Degree
	C614	Code 61 Flange 45 Degree
	C616	Code 61 Flange 60 Degree
	C619	Code 61 Flange 90 Degree
SAE Flange Code 62	C62S	Code 62 Flange Straight
	C624	Code 62 Flange 45 Degree
	C629	Code 62 Flange 90 Degree

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Fitting Type	Hose Size		Fitting Size		Fitting Configuration				Optional for Stainless Steel Fittings				
-							-	S	S				
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1-Piece		-02 or 1/8"		-02 or 1/8"									
B – C12A		-03 or 3/16"		-03 or 3/16"									
Q – C121		-04 or 1/4"		-04 or 1/4"									
C – C122		-05 or 5/16"		-05 or 5/16"									
D – C124		-06 or 3/8"		-06 or 3/8"									
F – C126		-08 or 1/2"		-08 or 1/2"									
H – C12H		-10 or 5/8"		-10 or 5/8"									
M – C12R		-12 or 3/4"		-12 or 3/4"									
2-Piece		-14 or 7/8"		-14 or 7/8"									
A – H12		-16 or 1"		-16 or 1"									
X – H14		-20 or 1 1/4"		-20 or 1 1/4"									
Z – H1T		-24 or 1 1/2"		-24 or 1 1/2"									
K – H1K		-32 or 2"		-32 or 2"									
		-40 or 2 1/2"		-40 or 2 1/2"									
		-48 or 3"		-48 or 3"									

Fitting Configuration Chart – Fitting Type Explanation

B – C12A – One piece non-skive crimp fitting for all braided hoses up to 1" ID.

Q – C121 – One piece non-skive crimp fitting for Alfatech 3000 (AT3KMT) hose and Alfajet 210 (TAJ3BK/TAJ3BU) ¼" ID thru ½" ID only, while supplies last.

C – C122 – One piece non-skive crimp fitting for braided hose except Alfatech 3000 (AT3KMT) and Alfajet 210 (TAJ3BK/TAJ3BU) ¼" ID thru ½" ID only, while supplies last.

D – C124 – One piece non-skive crimp fitting for SAE 100R1 and 100R2 wire braided hose and 4 wire spiral hose Flexor 12 (TR12) ½" ID thru 2" ID and Alfabiotech 3000 1 ¼" thru 2".

F – C126 – One piece non-skive crimp fitting for Flexor 12 (TR12), 4SH (T4SH), Flexor 13 (TR13), Alfatech 5000, Alfabiotech 5000 ¾" thru 1 ½" and Alfabiotech 6000 ¾" thru 1 ¼".

H – C12H – One piece non-skive crimp fitting for 4SH (T4SH) in 2" size only.

M – C12R – One Piece non-skive crimp fitting for Flexor 13 (TR13) in 2" size only.

A – H12 – Two piece insert for all wire and textile braided hoses, thermoplastic hose, Flexor 4 and PTFE hose 3/16" thru 2" and Flexor 12 (TR12) ½" thru 1 ½" along with some spiral wire reinforced hoses thru 1 ½".

X – H14 – Two piece Interlock insert for spiral wire reinforced hoses. Requires both internal and external skiving and a XF1 or XF2 Interlock ferrule to perform properly.

Z – H1T – Two piece Interlock insert for Alfatech 6000 (AT6K) in 2" size only. Requires both internal and external skiving and a ZF1 Interlock ferrule to perform properly.

K – H1K – Two piece insert for Flexor Rig 48, 3" ID size only. Requires a KS1 skive ferrule to perform properly.

TYPE	SUFFIX	DESCRIPTION
Caterpillar Flange	CFLS	CAT Flange Straight
	CFL4	CAT Flange 45 Degree
	CFL9	CAT Flange 90 Degree
BSP	BBAN	BSP Banjo
	FBC9	Female BSP Compact 90 Degree Swivel
	FBFS	Female BSP Flat Seat Swivel
	FBP0	Female British Pipe Parallel With O-Ring Swivel
	FB04	Female British Pipe Parallel With O-Ring 45 Degree Swivel
	FB09	Female British Pipe Parallel With O-Ring 90 Degree Swivel
	FBPP	Female British Pipe Parallel Swivel
	FBP4	Female British Pipe Parallel 45 Degree Swivel
	FBP9	Female British Pipe Parallel 90 Degree Swivel
	MBFS	Male BSP Flat Seat
	MBPP	Male British Pipe Parallel
	MBPT	Male British Pipe Tapered/JIS
Metric	FMFS	Female Metric French Swivel
	FMOH	Female Metric O-Ring Heavy Swivel
	FM4H	Female Metric O-Ring 45 Degree Heavy Swivel
	FM9H	Female Metric O-Ring 90 Degree Heavy Swivel
	FMOL	Female Metric O-Ring Light Swivel
	FM4L	Female Metric O-Ring 45 Degree Light Swivel
	FM6S	Female Metric 60 Degree Seat DIN 3863
	FM9L	Female Metric O-Ring 90 Degree Light Swivel
	MBAN	Metric Banjo
	MMFR	Male Metric French Solid
	MMSH	Male Metric Solid-Heavy
	MMSL	Male Metric Solid-Light
	MSPS	Metric Stand Pipe Straight
	MSP4	Metric Stand Pipe 45 Degree
	MSP9	Metric Stand Pipe 90 Degree
JIS	FJIS	Female JIS Swivel
	FJS4	Female JIS 45 Degree Swivel
	FJS9	Female JIS 90 Degree Swivel
	FKOS	Female Komatsu Swivel
	KFST	Komatsu Flange Straight
	KF45	Komatsu Flange 45 Degree
	KF90	Komatsu Flange 90 Degree
API	FHUN	Female Hammer Union
	MAPI	Male API Pipe Thread
	MHUN	Male Hammer Union
Other	BTTF	Bite Type Tube Fitting
	FGRT	Female Grease Tap
	FPWS	Female Pressure Washer Swivel
	HMEN	Hose Mender

Fitting Configuration Chart – Fitting Type Explanation

B – C12A – One piece non-skive crimp fitting for all braided hoses up to 1" ID.

Q – C121 – One piece non-skive crimp fitting for Alfatech 3000 (AT3KMT) hose and Alfajet 210 (TAJ3BK/TAJ3BU) ¼" ID thru ½" ID only, while supplies last.

C – C122 – One piece non-skive crimp fitting for braided hose except Alfatech 3000 (AT3KMT) and Alfajet 210 (TAJ3BK/TAJ3BU) ¼" ID thru ½" ID only, while supplies last.

D – C124 – One piece non-skive crimp fitting for SAE 100R1 and 100R2 wire braided hose and 4 wire spiral hose Flexor 12 (TR12) ½" ID thru 2" ID and Alfabiotech 3000 1 ¼" thru 2".

F – C126 – One piece non-skive crimp fitting for Flexor 12 (TR12), 4SH (T4SH), Flexor 13 (TR13), Alfatech 5000, Alfabiotech 5000 ¾" thru 1 ½" and Alfabiotech 6000 ¾" thru 1 ¼".

H – C12H – One piece non-skive crimp fitting for 4SH (T4SH) in 2" size only.

M – C12R – One Piece non-skive crimp fitting for Flexor 13 (TR13) in 2" size only.

A – H12 – Two piece insert for all wire and textile braided hoses, thermoplastic hose, Flexor 4 and PTFE hose 3/16" thru 2" and Flexor 12 (TR12) ½" thru 1 ½" along with some spiral wire reinforced hoses thru 1 ½".

X – H14 – Two piece Interlock insert for spiral wire reinforced hoses. Requires both internal and external skiving and a XF1 or XF2 Interlock ferrule to perform properly.

Z – H1T – Two piece Interlock insert for Alfatech 6000 (AT6K) in 2" size only. Requires both internal and external skiving and a ZF1 Interlock ferrule to perform properly.

K – H1K – Two piece insert for Flexor Rig 48, 3" ID size only. Requires a KS1 skive ferrule to perform properly.

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Alfacrimp Fitting Selection Chart



Former Part Numbers

Hose		-04	-05	-06	-08	-10	-12	-16	-20	-24	-32
		DN 6	DN 8	DN 10	DN 12	DN 16	DN 19	DN 25	DN 32	DN 38	DN 51
		1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
HF and MT (MSHA) Cover	FLEXOR 1SN MINETUFF	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124	C124	C124
	FLEXOPACK 2SC	C12A	C12A	C12A	C12A	C12A	C12A	C12A			
	FLEXOR 2SN MINETUFF	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124	C124	C124
	FLEXOPACK 2 MINETUFF and LOW TEMP	C12A	C12A	C12A	C12A	C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
	ALFATECH 3000 MT/ST	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124		
		C121	C121	C121	C121						
	ALFAJET 210	C12A	C12A	C12A	C12A						
		C121	C121	C121	C121						
MSHA cover, HT and Temp Tech	FLEXOR 1SN MSHA	C12A	C12A	C12A	C12A	C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
	FLEXOR 1SN TEMP TECH					C124	C124	C124	C124	C124	C124
		C12A		C12A	C12A	C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
	FLEXOR 2SN MSHA					C124	C124	C124	C124	C124	C124
		C12A	C12A	C12A		C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
	FLEXOR 2SN TEMP TECH					C124	C124	C124	C124	C124	C124
		C12A		C12A		C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
Wire Spiral Hoses	ALFATECH 4000			C124	C124	C124	C124	C124		C126	C12H
								C126	C126	C126	C12R
	ALFATECH 5000							C126	C126	C126	C12R
				C124	C124	C124	C124	C124	C124	C124	C124
	FLEXOR R12						C126	C126	C126	C126	
							C126	C126	C126	C126	C12H
	FLEXOR 4SH						C126	C126	C126	C126	C12R
							C126	C126	C126	C126	C12R
	FLEXOR R13						C126	C126	C126	C126	C12R
							C126	C126	C126	C126	C12R
	ALFABIOTECH 3000								C124	C124	C124
							C124	C124			
	ALFABIOTECH 4000						C126	C126	C126	C126	C12R
							C126*	C126*			
	ALFABIOTECH 5000 PLUS						C126	C126	C126		
							C126	C126	C126		
	ALFABIOTECH 6000										
								C126	C126	C126	C12R
	FLEXOR RIG							C126	C126	C126	C12R

* under validation

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New Part Numbers

Hose		-04	-05	-06	-08	-10	-12	-16	-20	-24	-32
		DN 6	DN 8	DN 10	DN 12	DN 16	DN 19	DN 25	DN 32	DN 38	DN 51
		1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
HF and MT (MSHA) Cover	FLEXOR 1SN MINETUFF	B	B	B	B	B	B	B	D	D	D
	FLEXOPACK 2SC	B	B	B	B	B	B	B			
	FLEXOR 2SN MINETUFF	B	B	B	B	B	B	B	D	D	D
	FLEXOPACK 2 MINETUFF and LOW TEMP	B	B	B	B	B	B	B			
		C	C	C	C	C	C	C			
	ALFATECH 3000 MT/ST	B	B	B	B	B	B	B	D		
		Q	Q	Q	Q						
MSHA cover, HT and Temp Tech	ALFAJET 210	B	B	B	B						
		Q	Q	Q	Q						
	FLEXOR 1SN MSHA	B	B	B	B	B	B	B			
		C	C	C	C	C	C	C			
						D	D	D	D	D	D
	FLEXOR 1SN TEMP TECH	B		B	B	B	B	B			
		C	C	C	C	C	C	C			
Wire Spiral Hoses						D	D	D	D	D	D
	FLEXOR 2SN MSHA	B	B	B		B	B	B			
		C	C	C	C	C	C	C			
				D	D	D	D	D	D	D	D
	FLEXOR 2SN TEMP TECH	B		B		B	B	B			
		C	C	C	C	C	C	C			
				D	D	D	D	D	D	D	D
Wire Spiral Hoses	ALFATECH 4000			D	D	D	D	D		F	H
	ALFATECH 5000							F	F	F	M
	FLEXOR R12			D	D	D	D	D	D	D	D
							F	F	F	F	
	FLEXOR 4SH						F	F	F	F	H
	FLEXOR R13						F	F	F	F	M
	ALFABIOTECH 3000								D	D	D
	ALFABIOTECH 4000						D	D			
	ALFABIOTECH 5000						F	F	F	F	M
	ALFABIOTECH 5000 PLUS						F*	F*			
	ALFABIOTECH 6000						F	F	F		
	FLEXOR RIG							F	F	F	M

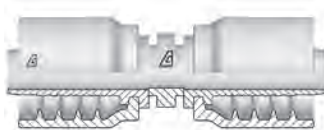
* under validation

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AlfaCrimp One-Piece Fittings - C12A

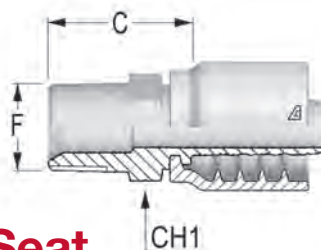


NEW



Hose Mender

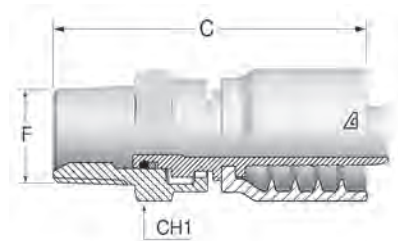
Former Part Number	New Part Number	Dash Size	Hose ID Size		Weight Each (lbs.)
			(in.)	(mm)	
C12AC5610-0404	B-0404-HMEN	04	1/4	6.4	0.13
C12AC5610-0505	B-0505-HMEN	05	5/16	7.9	0.15
C12AC5610-0606	B-0606-HMEN	06	3/8	9.5	0.18
C12AC5610-0808	B-0808-HMEN	08	1/2	12.7	0.25
C12AC5610-1010	B-1010-HMEN	10	5/8	15.9	0.32
C12AC5610-1212	B-1212-HMEN	12	3/4	19.0	0.56
C12AC5610-1616	B-1616-HMEN	16	1	25.4	1.00



NPTF Male 60° Seat

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
C12A12810-0402	B-0402-MNPT	04	1/4	6.4	02	1/8-27	21.3	14.0	0.11
C12A12810-0404	B-0404-MNPT	04	1/4	6.4	04	1/4-18	26.8	14.3	0.13
C12A12810-0406	B-0406-MNPT	04	1/4	6.4	06	3/8-18	27.8	19.0	0.15
C12A12810-0408	B-0408-MNPT	04	1/4	6.4	08	1/2-14	31.3	22.0	0.17
C12A12810-0504	B-0504-MNPT	05	5/16	7.9	04	1/4-18	26.8	17.0	0.14
C12A12810-0506	B-0506-MNPT	05	5/16	7.9	06	3/8-18	27.8	19.0	0.17
C12A12810-0604	B-0604-MNPT	06	3/8	9.5	04	1/4-18	26.8	17.0	0.16
C12A12810-0606	B-0606-MNPT	06	3/8	9.5	06	3/8-18	27.8	19.0	0.18
C12A12810-0608	B-0608-MNPT	06	3/8	9.5	08	1/2-14	31.3	22.0	0.24
C12A12810-0806	B-0806-MNPT	08	1/2	12.7	06	3/8-18	28.6	19.0	0.22
C12A12810-0808	B-0808-MNPT	08	1/2	12.7	08	1/2-14	32.1	22.0	0.27
C12A12810-0812	B-0812-MNPT	08	1/2	12.7	12	3/4-14	34.1	27.0	0.31
C12A12810-1008	B-1008-MNPT	10	5/8	15.9	08	1/2-14	33.1	24.0	0.31
C12A12810-1012	B-1012-MNPT	10	5/8	15.9	12	3/4-14	34.1	27.0	0.35
C12A12810-1208	B-1208-MNPT	12	3/4	19.0	08	1/2-14	33.6	27.0	0.39
C12A12810-1212	B-1212-MNPT	12	3/4	19.0	12	3/4-14	34.6	27.0	0.44
C12A12810-1216	B-1216-MNPT	12	3/4	19.0	16	1-11 1/2	43.6	36.0	0.63
C12A12810-1616	B-1616-MNPT	16	1	25.4	16	1-11 1/2	44.4	36.0	0.77
C12A12810-1620	B-1620-MNPT	16	1	25.4	20	1 1/4-11 1/2	47.4	46.0	1.04

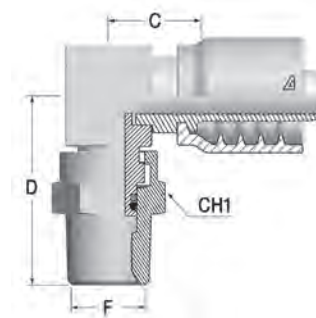
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NPTF Male Swivel 60° Seat

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
C12A12811-0404	B-0404-MNPS	04	1/4	6.4	04	1/4-18	37.6	17	0.16
C12A12811-0406	B-0406-MNPS	04	1/4	6.4	06	3/8-18	39.5	22	0.22
C12A12811-0604	B-0604-MNPS	06	3/8	9.5	04	1/4-18	39.6	17	0.18
C12A12811-0606	B-0606-MNPS	06	3/8	9.5	06	3/8-18	37.5	22	0.24
C12A12811-0608	B-0608-MNPS	06	3/8	9.5	08	1/2-14	43.5	25	0.30
C12A12811-0806	B-0806-MNPS	08	1/2	12.7	06	3/8-18	38.3	22	0.33
C12A12811-0808	B-0808-MNPS	08	1/2	12.7	08	1/2-14	42.3	25	0.59
C12A12811-1212	B-1212-MNPS	12	3/4	19.0	12	3/4-14	50.1	32	0.99
C12A12811-1616	B-1616-MNPS	16	1	25.4	16	1-11 1/2	57.9	41	1.06

NEW

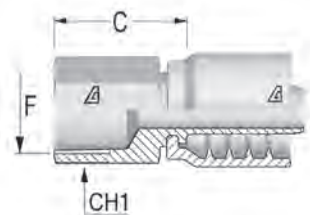


90° Compact NPTF Male Swivel 60° Seat

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A12881-0404	B-0404-MPS9	04	1/4	6.4	04	1/4-18	17	39	17	0.28
C12A12881-0406	B-0406-MPS9	04	1/4	6.4	06	3/8-18	19	39	22	0.34
C12A12881-0604	B-0604-MPS9	06	3/8	9.5	04	1/4-18	17	41	17	0.40
C12A12881-0606	B-0606-MPS9	06	3/8	9.5	06	3/8-18	20	41	22	0.50
C12A12881-0608	B-0608-MPS9	06	3/8	9.5	08	1/2-14	22	41	25	0.59
C12A12881-0806	B-0806-MPS9	08	1/2	12.7	06	3/8-18	23	48	22	0.70
C12A12881-0808	B-0808-MPS9	08	1/2	12.7	08	1/2-14	22	48	25	0.81
C12A12881-1212	B-1212-MPS9	12	3/4	19.0	12	3/4-14	27	61	32	0.90
C12A12881-1616	B-1616-MPS9	16	1	25.4	16	1-11 1/2	35	70	41	1.01

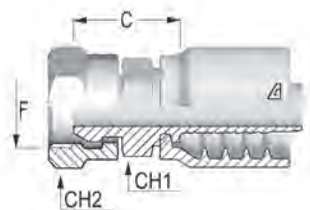
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AlfaCrimp One-Piece Fittings - C12A



NPTF Solid Female

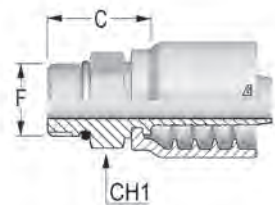
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
C12A22810-0404	B-0404-FNPR	04	1/4	6.4	04	1/4-18	27.8	19	0.16
C12A22810-0606	B-0606-FNPR	06	3/8	9.5	06	3/8-18	28.8	22	0.20
C12A22810-0808	B-0808-FNPR	08	1/2	12.7	08	1/2-14	35.6	25	0.29
C12A22810-1212	B-1212-FNPR	12	3/4	19.0	12	3/4-14	38.1	32	0.48
C12A22810-1616	B-1616-FNPR	16	1	25.4	16	1-11 1/2	44.9	38	0.74



NPSM Female

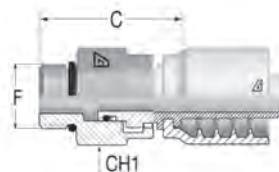
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A27311-0404	B-0404-FPMS	04	1/4	6.4	04	1/4-18	24.3	17	19	0.17
C12A27311-0606	B-0606-FPMS	06	3/8	9.5	06	3/8-18	25.8	19	22	0.23
C12A27311-0808	B-0808-FPMS	08	1/2	12.7	08	1/2-14	27.6	22	27	0.31
C12A27311-1212	B-1212-FPMS	12	3/4	19.0	12	3/4-14	28.6	27	32	0.63
C12A27311-1616	B-1616-FPMS	16	1	25.4	16	1-11 1/2	35.4	36	38	0.88

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SAE Solid Male O-Ring Boss

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
C12A13010-0404	B-0404-MORB	04	1/4	6.4	04	7/16-20	20.3	14	0.11
C12A13010-0405	B-0405-MORB	04	1/4	6.4	05	1/2-20	21.3	16	0.12
C12A13010-0406	B-0406-MORB	04	1/4	6.4	06	9/16-18	22.3	17	0.12
C12A13010-0606	B-0606-MORB	06	3/8	9.5	06	9/16-18	23.3	19	0.16
C12A13010-0608	B-0608-MORB	06	3/8	9.5	08	3/4-16	24.3	22	0.19
C12A13010-0610	B-0610-MORB	06	3/8	9.5	10	7/8-14	26.8	27	0.24
C12A13010-0808	B-0808-MORB	08	1/2	12.7	08	3/4-16	25.1	22	0.23
C12A13010-0810	B-0810-MORB	08	1/2	12.7	10	7/8-14	27.6	27	0.28
C12A13010-0812	B-0812-MORB	08	1/2	12.7	12	1 1/16-12	32.1	32	0.37
C12A13010-1012	B-1012-MORB	10	5/8	15.9	12	1 1/16-12	32.1	32	0.41
C12A13010-1210	B-1210-MORB	12	3/4	19.0	10	7/8-14	28.1	27	0.39
C12A13010-1212	B-1212-MORB	12	3/4	19.0	12	1 1/16-12	32.6	32	0.48
C12A13010-1216	B-1216-MORB	12	3/4	19.0	16	1 5/16-12	34.6	38	0.61
C12A13010-1616	B-1616-MORB	16	1	25.4	16	1 5/16-12	35.4	38	0.73



SAE Male Swivel O-Ring Boss

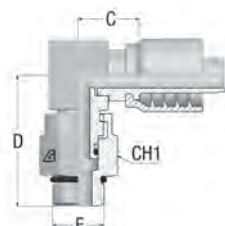
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
C12A13011-0404	B-0404-MOBS	04	1/4	6.4	04	7/16-20	33.1	17	0.19
C12A13011-0406	B-0406-MOBS	04	1/4	6.4	06	9/16-18	42.5	22	0.20
C12A13011-0606	B-0606-MOBS	06	3/8	9.5	06	9/16-18	40.5	22	0.22
C12A13011-0608	B-0608-MOBS	06	3/8	9.5	08	3/4-16	43.5	25	0.24
C12A13011-0808	B-0808-MOBS	08	1/2	12.7	08	3/4-16	42.3	25	0.38
C12A13011-0810	B-0810-MOBS	08	1/2	12.7	10	7/8-14	43.8	25	0.40
C12A13011-1212	B-1212-MOBS	12	3/4	19.0	12	1 1/16-12	49.6	32	0.50
C12A13011-1616	B-1616-MOBS	16	1	25.4	16	1 5/16-12	52.0	38	1.00

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AlfaCrimp One-Piece Fittings - C12A

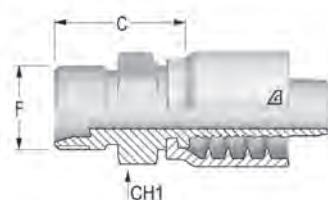


NEW



SAE Male 90° Compact Swivel O-Ring Boss

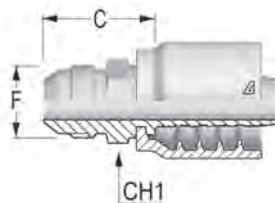
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A13081-0404	B-0404-MBS9	04	1/4	6.4	04	7/16-20	17	35	17	0.22
C12A13081-0405	B-0405-MBS9	04	1/4	6.4	05	1/2-20	17	35	17	0.25
C12A13081-0406	B-0406-MBS9	04	1/4	6.4	06	9/16-18	19	42	22	0.26
C12A13081-0606	B-0606-MBS9	06	3/8	9.5	06	9/16-18	20	44	22	0.27
C12A13081-0608	B-0608-MBS9	06	3/8	9.5	08	3/4-16	22	45	25	0.30
C12A13081-0808	B-0808-MBS9	08	1/2	12.7	08	3/4-16	23	48	25	0.44
C12A13081-0810	B-0810-MBS9	08	1/2	12.7	10	7/8-14	23	50	25	0.48
C12A13081-1212	B-1212-MBS9	12	3/4	19.0	12	1 1/16-12	27	60	32	0.60
C12A13081-1616	B-1616-MBS9	16	1	25.4	16	1 5/16-12	30	64	38	1.10



Bite Type Tube Fitting

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
C12A13B10-0404	B-0404-BTTF	04	1/4	6.4	04	7/16-20	21.8	12	0.13
C12A13B10-0506	B-0506-BTTF	05	5/16	7.9	06	1/2-20	24.2	16	0.18
C12A13B10-0606	B-0606-BTTF	06	3/8	9.5	06	9/16-18	24.2	16	0.18
C12A13B10-0608	B-0608-BTTF	06	3/8	9.5	08	3/4-16	27.6	22	0.25
C12A13B10-0808	B-0808-BTTF	08	1/2	12.7	08	3/4-16	28.4	22	0.28
C12A13B10-1212	B-1212-BTTF	12	3/4	19.0	12	1 1/16-12	33.1	30	0.44
C12A13B10-1616	B-1616-BTTF	16	1	25.4	16	1 5/16-12	37.9	36	0.95

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JIC Male 37° Cone

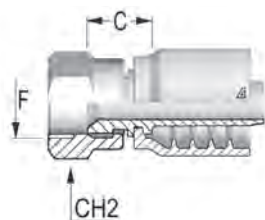
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
C12A12510-0404	B-0404-MJIC	04	1/4	6.4	04	7/16-20	25.3	12	0.10
C12A12510-0405	B-0405-MJIC	04	1/4	6.4	05	1/2-20	25.3	14	0.11
C12A12510-0406	B-0406-MJIC	04	1/4	6.4	06	9/16-18	26.3	17	0.13
C12A12510-0505	B-0505-MJIC	05	5/16	7.9	05	1/2-20	25.3	14	0.13
C12A12510-0506	B-0506-MJIC	05	5/16	7.9	06	9/16-18	26.3	17	0.14
C12A12510-0606	B-0606-MJIC	06	3/8	9.5	06	9/16-18	26.3	17	0.15
C12A12510-0608	B-0608-MJIC	06	3/8	9.5	08	3/4-16	29.8	19	0.19
C12A12510-0610	B-0610-MJIC	06	3/8	9.5	10	7/8-14	33.8	24	0.24
C12A12510-0808	B-0808-MJIC	08	1/2	12.7	08	3/4-16	30.6	19	0.22
C12A12510-0810	B-0810-MJIC	08	1/2	12.7	10	7/8-14	34.6	24	0.28
C12A12510-0812	B-0812-MJIC	08	1/2	12.7	12	1 1/16-12	37.1	27	0.33
C12A12510-1010	B-1010-MJIC	10	5/8	15.9	10	7/8-14	34.6	24	0.31
C12A12510-1012	B-1012-MJIC	10	5/8	15.9	12	1 1/16-12	37.1	27	0.37
C12A12510-1212	B-1212-MJIC	12	3/4	19.0	12	1 1/16-12	37.6	27	0.44
C12A12510-1214	B-1214-MJIC	12	3/4	19.0	14	1 3/16-12	40.1	32	0.51
C12A12510-1216	B-1216-MJIC	12	3/4	19.0	16	1 5/16-12	42.6	36	0.62
C12A12510-1616	B-1616-MJIC	16	1	25.4	16	1 5/16-12	43.4	36	0.75
C12A12510-1620	B-1620-MJIC	16	1	25.4	20	1 5/8-12	46.9	46	1.01

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AlfaCrimp One-Piece Fittings - C12A



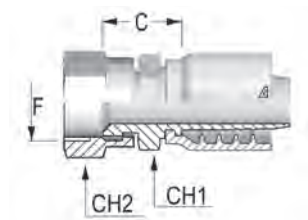
NEW



JIC Female 37° Seat

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
C12A22511-0404	B-0404-FJSH	04	1/4	6.4	04	7/16-20	14.6	16	0.12
C12A22511-0405	B-0405-FJSH	04	1/4	6.4	05	1/2-20	15.3	17	0.13
C12A22511-0406	B-0406-FJSH	04	1/4	6.4	06	9/16-18	15.3	19	0.14
C12A22511-0505	B-0505-FJSH	05	5/16	7.9	05	1/2-20	15.3	17	0.14
C12A22511-0506	B-0506-FJSH	05	5/16	7.9	06	9/16-18	15.3	19	0.15
C12A22511-0606	B-0606-FJSH	06	3/8	9.5	06	9/16-18	15.3	19	0.16
C12A22511-0608	B-0608-FJSH	06	3/8	9.5	08	3/4-16	17.8	25	0.23
C12A22511-0806	B-0806-FJSH	08	1/2	12.7	06	9/16-18	18.3	19	0.26
C12A22511-0808	B-0808-FJSH	08	1/2	12.7	08	3/4-16	18.6	25	0.27
C12A22511-0810	B-0810-FJSH	08	1/2	12.7	10	7/8-14	19.6	27	0.29
C12A22511-0812	B-0812-FJSH	08	1/2	12.7	12	1 1/16-12	22.1	32	0.36
C12A22511-1010	B-1010-FJSH	10	5/8	15.9	10	7/8-14	19.6	27	0.32
C12A22511-1012	B-1012-FJSH	10	5/8	15.9	12	1 1/16-12	20.1	32	0.39
C12A22511-1210	B-1210-FJSH	12	3/4	19.0	10	7/8-14	20.1	27	0.40
C12A22511-1212	B-1212-FJSH	12	3/4	19.0	12	1 1/16-12	20.6	32	0.46
C12A22511-1214	B-1214-FJSH	12	3/4	19.0	14	1 3/16-12	19.9	36	0.52
C12A22511-1216	B-1216-FJSH	12	3/4	19.0	16	1 5/16-12	22.1	38	0.56
C12A22511-1616	B-1616-FJSH	16	1	25.4	16	1 5/16-12	23.9	38	0.69
C12A22511-1620	B-1620-FJSH	16	1	25.4	20	1 5/8-12	26.5	50	1.03

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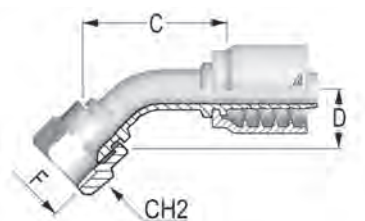


JIC Female 37° Seat Dual Hex

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A26511-0404	B-0404-FJDH	04	1/4	6.4	04	7/16-20	19.6	14	16	0.13
C12A26511-0405	B-0405-FJDH	04	1/4	6.4	05	1/2-20	20.3	14	17	0.14
C12A26511-0406	B-0406-FJDH	04	1/4	6.4	06	9/16-18	20.3	14	19	0.15
C12A26511-0506	B-0506-FJDH	05	5/16	7.9	06	9/16-18	20.3	14	19	0.16
C12A26511-0604	B-0604-FJDH	06	3/8	9.5	04	7/16-20	20.6	17	16	0.17
C12A26511-0606	B-0606-FJDH	06	3/8	9.5	06	9/16-18	21.3	17	19	0.18
C12A26511-0608	B-0608-FJDH	06	3/8	9.5	08	3/4-16	24.8	19	25	0.26
C12A26511-0610	B-0610-FJDH	06	3/8	9.5	10	7/8-14	25.8	22	27	0.29
C12A26511-0806	B-0806-FJDH	08	1/2	12.7	06	9/16-18	23.1	19	19	0.24
C12A26511-0808	B-0808-FJDH	08	1/2	12.7	08	3/4-16	25.6	19	25	0.30
C12A26511-0810	B-0810-FJDH	08	1/2	12.7	10	7/8-14	26.6	22	27	0.32
C12A26511-0812	B-0812-FJDH	08	1/2	12.7	12	1 1/16-12	28.1	25	32	0.41
C12A26511-1008	B-1008-FJDH	10	5/8	15.9	08	3/4-16	26.6	24	25	0.37
C12A26511-1010	B-1010-FJDH	10	5/8	15.9	10	7/8-14	27.6	24	27	0.37
C12A26511-1012	B-1012-FJDH	10	5/8	15.9	12	1 1/16-12	28.1	25	32	0.45
C12A26511-1210	B-1210-FJDH	12	3/4	19.0	10	7/8-14	28.1	27	27	0.50
C12A26511-1212	B-1212-FJDH	12	3/4	19.0	12	1 1/16-12	28.6	27	32	0.52
C12A26511-1214	B-1214-FJDH	12	3/4	19.0	14	1 3/16-12	29.9	32	36	0.62
C12A26511-1216	B-1216-FJDH	12	3/4	19.0	16	1 5/16-12	32.1	32	38	0.65
C12A26511-1612	B-1612-FJDH	16	1	25.4	12	1 1/16-12	31.4	32	32	0.75
C12A26511-1616	B-1616-FJDH	16	1	25.4	16	1 5/16-12	32.9	32	38	0.77
C12A26511-1620	B-1620-FJDH	16	1	25.4	20	1 5/8-12	37.5	41	50	1.05

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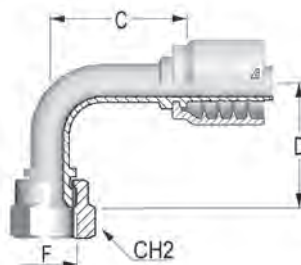
AlfaCrimp One-Piece Fittings - C12A



45° JIC Female 37° Seat Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A22541-0404M	B-0404-FJ45	04	1/4	6.4	04	7/16-20	36.6	10	16	0.14
C12A22541-0405M	B-0405-FJ45	04	1/4	6.4	05	1/2-20	37.2	12	17	0.15
C12A22541-0406M	B-0406-FJ45	04	1/4	6.4	06	9/16-18	39.4	11	19	0.16
C12A22541-0506M	B-0506-FJ45	05	5/16	7.9	06	9/16-18	42.8	12	19	0.19
C12A22541-0606M	B-0606-FJ45	06	3/8	9.5	06	9/16-18	46.3	11	19	0.20
C12A22541-0608M	B-0608-FJ45	06	3/8	9.5	08	3/4-16	47.2	15	25	0.26
C12A22541-0808M	B-0808-FJ45	08	1/2	12.7	08	3/4-16	51.6	15	25	0.32
C12A22541-0810M	B-0810-FJ45	08	1/2	12.7	10	7/8-14	50.7	16	27	0.34
C12A22541-0812M	B-0812-FJ45	08	1/2	12.7	12	1 1/16-12	57.0	21	32	0.45
C12A22541-1010M	B-1010-FJ45	10	5/8	15.7	10	7/8-14	62.2	19	27	0.46
C12A22541-1012M	B-1012-FJ45	10	5/8	15.9	12	1 1/16-12	68.6	21	32	0.55
C12A22541-1212M	B-1212-FJ45	12	3/4	19.0	12	1 1/16-12	67.5	21	32	0.64
C12A22541-1216M	B-1216-FJ45	12	3/4	19.0	16	1 5/16-12	71.4	26	38	0.82
C12A22541-1616M	B-1616-FJ45	16	1	25.4	16	1 5/16-12	79.4	24	38	1.02
C12A22541-1620M	B-1620-FJ45	16	1	25.4	20	1 5/8-12	83.8	37	50	1.07

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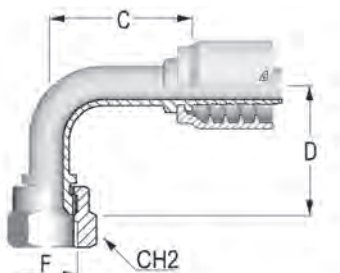


90° JIC Female 37° Seat Short Drop Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A22591-0404S	B-0404-FJ9S	04	1/4	6.4	04	7/16-20	27.0	21.0	16	0.14
C12A22591-0405S	B-0405-FJ9S	04	1/4	6.4	05	1/2-20	26.5	23.5	17	0.15
C12A22591-0406S	B-0406-FJ9S	04	1/4	6.4	06	9/16-18	31.0	23.0	19	0.16
C12A22591-0506S	B-0506-FJ9S	05	5/16	7.9	06	9/16-18	31.5	23.0	19	0.20
C12A22591-0606S	B-0606-FJ9S	06	3/8	9.5	06	9/16-18	42.3	23.0	19	0.20
C12A22591-0608S	B-0608-FJ9S	06	3/8	9.5	08	3/4-16	48.8	29.0	25	0.28
C12A22591-0808S	B-0808-FJ9S	08	1/2	12.7	08	3/4-16	46.4	29.0	25	0.34
C12A22591-0810S	B-0810-FJ9S	08	1/2	12.7	10	7/8-14	45.8	32.0	27	0.36
C12A22591-0812S	B-0812-FJ9S	08	1/2	12.7	12	1 1/16-12	37.3	46.0	32	0.46
C12A22591-1010S	B-1010-FJ9S	10	5/8	15.9	10	7/8-14	49.0	32.0	27	0.49
C12A22591-1012S	B-1012-FJ9S	10	5/8	15.9	12	1 1/16-12	47.9	48.0	32	0.56
C12A22591-1212S	B-1212-FJ9S	12	3/4	19.0	12	1 1/16-12	58.2	46.0	32	0.70
C12A22591-1216S	B-1216-FJ9S	12	3/4	19.0	16	1 5/16-12	53.6	53.0	38	0.83
C12A22591-1616S	B-1616-FJ9S	16	1	25.4	16	1 5/16-12	74.0	56.0	38	1.14

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AlfaCrimp One-Piece Fittings - C12A



90° JIC Female 37° Seat Medium Drop Solid One-Piece

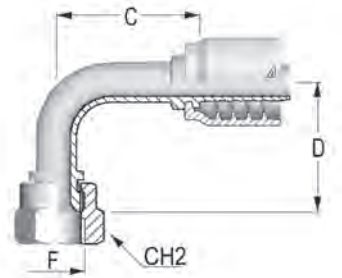
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A22591-0404M	B-0404-FJ9M	04	1/4	6.4	04	7/16-20	34.2	32.0	16	0.16
C12A22591-0405M	B-0405-FJ9M	04	1/4	6.4	05	1/2-20	25.7	30.0	17	0.16
C12A22591-0406M	B-0406-FJ9M	04	1/4	6.4	06	9/16-18	28.5	38.0	19	0.17
C12A22591-0505M	B-0505-FJ9M	05	5/16	7.9	05	1/2-20	34.2	32.0	17	0.19
C12A22591-0506M	B-0506-FJ9M	05	5/16	7.9	06	9/16-18	33.2	35.0	19	0.22
C12A22591-0606M	B-0606-FJ9M	06	3/8	9.5	06	9/16-18	31.3	35.0	19	0.22
C12A22591-0608M	B-0608-FJ9M	06	3/8	9.5	08	3/4-16	39.5	41.0	25	0.30
C12A22591-0808M	B-0808-FJ9M	08	1/2	12.7	08	3/4-16	37.2	40.0	25	0.35
C12A22591-0810M	B-0810-FJ9M	08	1/2	12.7	10	7/8-14	43.3	47.0	27	0.40
C12A22591-0812M	B-0812-FJ9M	08	1/2	12.7	12	1 1/16-12	42.8	58.0	32	0.49
C12A22591-1010M	B-1010-FJ9M	10	5/8	15.9	10	7/8-14	49.4	48.0	27	0.51
C12A22591-1012M	B-1012-FJ9M	10	5/8	15.9	12	1 1/16-12	47.9	58.0	32	0.60
C12A22591-1212M	B-1212-FJ9M	12	3/4	19.0	12	1 1/16-12	52.4	54.0	32	0.70
C12A22591-1216M	B-1216-FJ9M	12	3/4	19.0	16	1 5/16-12	52.6	72.0	38	0.86
C12A22591-1616M	B-1616-FJ9M	16	1	25.4	16	1 5/16-12	72.6	71.5	38	1.19
C12A22591-1620M	B-1620-FJ9M	16	1	25.4	20	1 5/8-12	72.6	78.0	50	1.21

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Kuriyama of America, Inc.

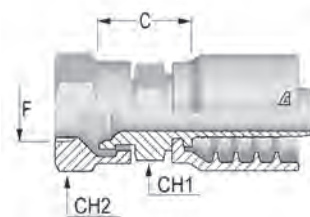
KHCCA0517



90° JIC Female 37° Seat Long Drop Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A22591-0404L	B-0404-FJ9L	04	1/4	6.4	04	7/16-20	30.8	46	16	0.17
C12A22591-0405L	B-0405-FJ9L	04	1/4	6.4	05	1/2-20	26.0	45	17	0.20
C12A22591-0406L	B-0406-FJ9L	04	1/4	6.4	06	9/16-18	26.0	54	17	0.27
C12A22591-0606L	B-0606-FJ9L	06	3/8	9.5	06	9/16-18	43.3	54	19	0.27
C12A22591-0608L	B-0608-FJ9L	06	3/8	9.5	08	3/4-16	46.8	64	25	0.28
C12A22591-0808L	B-0808-FJ9L	08	1/2	12.7	08	3/4-16	49.9	64	25	0.33
C12A22591-0810L	B-0810-FJ9L	08	1/2	12.7	10	7/8-14	37.3	65	27	0.42
C12A22591-1010L	B-1010-FJ9L	10	5/8	15.9	10	7/8-14	49.9	65	27	0.68
C12A22591-1212L	B-1212-FJ9L	12	3/4	19.0	12	1 1/16-12	54.1	95	32	0.84
C12A22591-1616L	B-1616-FJ9L	16	1	25.4	16	1 5/16-12	78.6	114	38	1.14

NEW

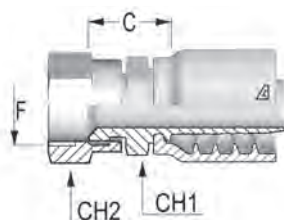


JIS Female 60° Seat Flare B 8363 (type F)

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A2381Z-0404	B-0404-FJIS	04	1/4	6.4	04	1/4-19	20.8	17	19	0.16
C12A2381Z-0606	B-0606-FJIS	06	3/8	9.5	06	3/8-19	21.8	19	22	0.21
C12A2381Z-0808	B-0808-FJIS	08	1/2	12.7	08	1/2-14	23.6	22	27	0.31
C12A2381Z-1212	B-1212-FJIS	12	3/4	19.0	12	3/4-14	27.1	30	36	0.58
C12A2381Z-1616	B-1616-FJIS	16	1	25.4	16	1-11	32.9	36	41	0.87

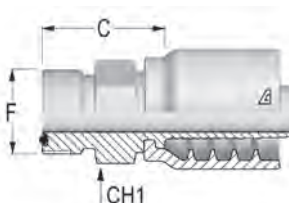
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AlfaCrimp One-Piece Fittings - C12A



SAE Female Swivel 45° Seat

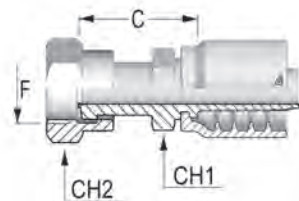
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A26611-0606	B-0606-FSAE	06	3/8	9.5	06	5/8-18	23.3	19	22	0.23
C12A26611-1212	B-1212-FSAE	12	3/4	19.0	12	1 1/16-14	28.6	27	32	0.52



ORFS Male

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
C12A12410-0404	B-0404-MOFS	04	1/4	6.4	04	9/16-18	22.3	17	0.13
C12A12410-0406	B-0406-MOFS	04	1/4	6.4	06	11/16-16	24.3	19	0.15
C12A12410-0606	B-0606-MOFS	06	3/8	9.5	06	11/16-16	24.3	19	0.17
C12A12410-0608	B-0608-MOFS	06	3/8	9.5	08	13/16-16	26.3	22	0.21
C12A12410-0610	B-0610-MOFS	06	3/8	9.5	10	1-14	29.8	27	0.28
C12A12410-0808	B-0808-MOFS	08	1/2	12.7	08	13/16-16	27.1	22	0.24
C12A12410-0810	B-0810-MOFS	08	1/2	12.7	10	1-14	30.6	27	0.32
C12A12410-0812	B-0812-MOFS	08	1/2	12.7	12	1 3/16-12	34.1	32	0.43
C12A12410-1010	B-1010-MOFS	10	5/8	15.9	10	1-14	30.6	27	0.35
C12A12410-1012	B-1012-MOFS	10	5/8	15.9	12	1 3/16-12	34.1	32	0.47
C12A12410-1210	B-1210-MOFS	12	3/4	19.0	10	1-14	34.6	32	0.51
C12A12410-1212	B-1212-MOFS	12	3/4	19.0	12	1 3/16-12	34.6	32	0.53
C12A12410-1216	B-1216-MOFS	12	3/4	19.0	16	1 7/16-12	38.1	41	0.74
C12A12410-1616	B-1616-MOFS	16	1	25.4	16	1 7/16-12	37.9	38	0.81
C12A12410-1620	B-1620-MOFS	16	1	25.4	20	1 11/16-12	39.9	46	1.00

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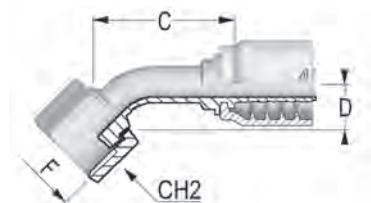


ORFS Female with Stem Hexagon

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A22411-0404	B-0404-FOFS	04	1/4	6.4	04	9/16-18	27.3	14	17	0.14
C12A22411-0406	B-0406-FOFS	04	1/4	6.4	06	11/16-16	30.3	17	22	0.20
C12A22411-0408	B-0408-FOFS	04	1/4	6.4	08	13/16-16	35.3	22	24	0.27
C12A22411-0506	B-0506-FOFS	05	5/16	7.9	06	11/16-16	30.3	17	22	0.21
C12A22411-0606	B-0606-FOFS	06	3/8	9.5	06	11/16-16	30.3	17	22	0.22
C12A22411-0608	B-0608-FOFS	06	3/8	9.5	08	13/16-16	35.3	22	24	0.28
C12A22411-0806	B-0806-FOFS	08	1/2	12.7	06	11/16-16	32.1	19	22	0.27
C12A22411-0808	B-0808-FOFS	08	1/2	12.7	08	13/16-16	36.1	22	24	0.31
C12A22411-0810	B-0810-FOFS	08	1/2	12.7	10	1-14	39.6	24	30	0.40
C12A22411-0812	B-0812-FOFS	08	1/2	12.7	12	1 3/16-12	42.1	30	36	0.62
C12A22411-1010	B-1010-FOFS	10	5/8	15.9	10	1-14	39.6	24	30	0.44
C12A22411-1012	B-1012-FOFS	10	5/8	15.9	12	1 3/16-12	42.1	30	36	0.64
C12A22411-1210	B-1210-FOFS	12	3/4	19.0	10	1-14	40.1	27	30	0.53
C12A22411-1212	B-1212-FOFS	12	3/4	19.0	12	1 3/16-12	42.6	30	36	0.68
C12A22411-1216	B-1216-FOFS	12	3/4	19.0	16	1 7/16-12	48.6	36	41	0.95
C12A22411-1612	B-1612-FOFS	16	1	25.4	12	1 3/16-12	45.4	32	36	0.89
C12A22411-1616	B-1616-FOFS	16	1	25.4	16	1 7/16-12	49.4	36	41	1.02
C12A22411-1620	B-1620-FOFS	16	1	25.4	20	1 11/16-12	50.4	41	50	1.38

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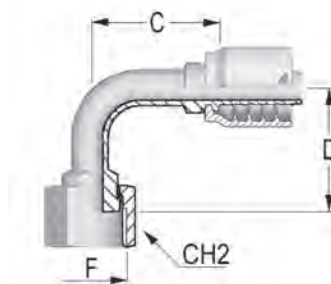
AlfaCrimp One-Piece Fittings - C12A



45° ORFS Female Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A22443-0404M	B-0404-F045	04	1/4	6.4	04	9/16-18	41.1	11.0	17	0.15
C12A22443-0406M	B-0406-F045	04	1/4	6.4	06	11/16-16	46.1	11.0	22	0.19
C12A22443-0506M	B-0506-F045	05	5/16	7.9	06	11/16-16	46.3	12.0	22	0.22
C12A22443-0606M	B-0606-F045	06	3/8	9.5	06	11/16-16	47.4	12.0	22	0.23
C12A22443-0608M	B-0608-F045	06	3/8	9.5	08	13/16-16	51.2	15.0	24	0.27
C12A22441-0806M	B-0806-F045	08	1/2	12.7	06	11/16-16	47.1	16.0	22	0.26
C12A22441-0808M	B-0808-F045	08	1/2	12.7	08	13/16-16	47.1	16.0	24	0.29
C12A22443-0810M	B-0810-F045	08	1/2	12.7	10	1-14	50.4	16.5	30	0.43
C12A22443-1010M	B-1010-F045	10	5/8	15.9	10	1-14	57.7	17.0	30	0.49
C12A22443-1012M	B-1012-F045	10	5/8	15.9	12	1 3/16-12	63.1	21.0	36	0.64
C12A22443-1212M	B-1212-F045	12	3/4	19.0	12	1 3/16-12	63.5	21.0	36	0.76
C12A22443-1216M	B-1216-F045	12	3/4	19.0	16	1 7/16-12	70.7	24.0	41	0.88
C12A22443-1616M	B-1616-F045	16	1	25.4	16	1 7/16-12	82.4	26.0	41	1.12
C12A22443-1620M	B-1620-F045	16	1	25.4	20	1 11/16-12	85.4	26.0	50	1.42

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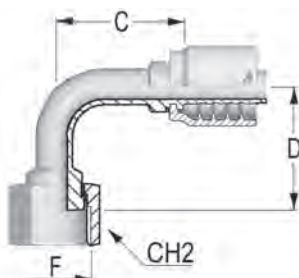


90° ORFS Female Short Drop Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A22493-0404S	B-0404-F09S	04	1/4	6.4	04	9/16-18	28.5	21.0	17	0.15
C12A22493-0406S	B-0406-F09S	04	1/4	6.4	06	11/16-16	32.0	23.0	22	0.19
C12A22493-0506S	B-0506-F09S	05	5/16	7.9	06	11/16-16	32.0	25.0	22	0.23
C12A22493-0606S	B-0606-F09S	06	3/8	9.5	06	11/16-16	41.8	25.0	22	0.23
C12A22493-0608S	B-0608-F09S	06	3/8	9.5	08	13/16-16	41.8	29.0	24	0.27
C12A22491-0808S	B-0808-F09S	08	1/2	12.7	08	13/16-16	39.8	29.0	24	0.31
C12A22493-0810S	B-0810-F09S	08	1/2	12.7	10	1-14	46.3	32.5	30	0.45
C12A22493-0812S	B-0812-F09S	08	1/2	12.7	12	1 3/16-12	50.1	35.0	36	0.69
C12A22493-1010S	B-1010-F09S	10	5/8	15.9	10	1-14	52.3	32.5	30	0.52
C12A22493-1012S	B-1012-F09S	10	5/8	15.9	12	1 3/16-12	55.4	49.0	36	0.71
C12A22493-1212S	B-1212-F09S	12	3/4	19.0	12	1 3/16-12	60.6	51.0	36	0.84
C12A22493-1216S	B-1216-F09S	12	3/4	19.0	16	1 7/16-12	61.6	56.0	41	0.77
C12A22493-1616S	B-1616-F09S	16	1	25.4	16	1 7/16-12	80.0	58.0	41	1.27
C12A22493-1620S	B-1620-F09S	16	1	25.4	20	1 11/16-12	85.4	26.0	50	1.62

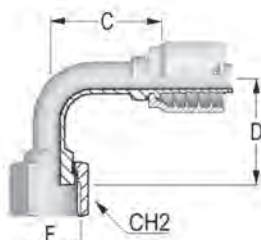
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AlfaCrimp One-Piece Fittings - C12A



90° ORFS Female Medium Drop Solid One-Piece

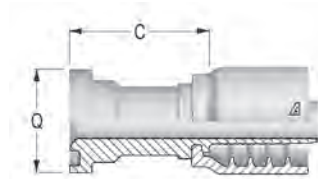
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A22493-0404M	B-0404-F09M	04	1/4	6.4	04	9/16-18	29.8	32	17	0.17
C12A22493-0406M	B-0406-F09M	04	1/4	6.4	06	11/16-16	37.3	38	22	0.22
C12A22493-0506M	B-0506-F09M	05	5/16	7.9	06	11/16-16	40.7	34	22	0.26
C12A22493-0606M	B-0606-F09M	06	3/8	9.5	06	11/16-16	41.8	38	22	0.25
C12A22493-0608M	B-0608-F09M	06	3/8	9.5	08	13/16-16	43.8	41	24	0.30
C12A22491-0808M	B-0808-F09M	08	1/2	12.7	08	13/16-16	34.8	42	24	0.32
C12A22493-0810M	B-0810-F09M	08	1/2	12.7	10	1-14	48.3	47	30	0.48
C12A22493-1010M	B-1010-F09M	10	5/8	15.9	10	1-14	55.4	44	30	0.55
C12A22493-1012M	B-1012-F09M	10	5/8	15.9	12	1 3/16-12	55.4	58	36	0.73
C12A22493-1212M	B-1212-F09M	12	3/4	19.0	12	1 3/16-12	61.6	58	36	0.87
C12A22493-1216M	B-1216-F09M	12	3/4	19.0	16	1 7/16-12	65.5	71	41	1.05
C12A22493-1616M	B-1616-F09M	16	1	25.4	16	1 7/16-12	82.6	66	41	1.31
C12A22493-1620M	B-1620-F09M	16	1	25.4	20	1 11/16-12	82.6	78	50	1.69



90° ORFS Female Long Drop Solid One-Piece

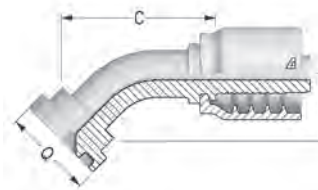
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A22493-0404L	B-0404-F09L	04	1/4	6.4	04	9/16-18	32.8	46	17	0.18
C12A22493-0406L	B-0406-F09L	04	1/4	6.4	06	11/16-16	34.8	54	22	0.23
C12A22493-0506L	B-0506-F09L	05	5/16	7.9	06	11/16-16	32.0	54	22	0.28
C12A22493-0606L	B-0606-F09L	06	3/8	9.5	06	11/16-16	41.8	54	22	0.26
C12A22493-0608L	B-0608-F09L	06	3/8	9.5	08	13/16-16	46.8	64	24	0.33
C12A22491-0808L	B-0808-F09L	08	1/2	12.7	08	13/16-16	38.3	64	24	0.35
C12A22493-0810L	B-0810-F09L	08	1/2	12.7	10	1-14	46.3	70	30	0.50
C12A22493-1010L	B-1010-F09L	10	5/8	15.9	10	1-14	55.4	70	30	0.61
C12A22493-1212L	B-1212-F09L	12	3/4	19.0	12	1 3/16-12	61.6	96	36	0.97
C12A22493-1616L	B-1616-F09L	16	1	25.4	16	1 7/16-12	82.6	114	41	1.53

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Flange SAE 3000 PSI J518 Code 61

Former Part Number	New Part Number	Dash Size	Hose ID Size		Flange		Q (mm)	C Cut-Off Factor (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	(in.)			
C12A43310-0808	B-0808-C61S	08	1/2	12.7	08	1/2	30.2	41.0	0.35
C12A43310-0812	B-0812-C61S	08	1/2	12.7	12	3/4	38.1	42.0	0.44
C12A43310-1212	B-1212-C61S	12	3/4	19.0	12	3/4	38.1	42.5	0.57
C12A43310-1216	B-1216-C61S	12	3/4	19.0	16	1	44.5	50.5	0.71
C12A43310-1616	B-1616-C61S	16	1	25.4	16	1	44.5	51.4	0.90
C12A43310-1620	B-1620-C61S	16	1	25.4	20	1 1/4	50.8	53.9	1.00

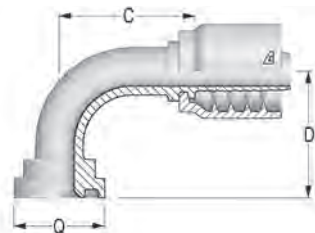


45° Flange SAE 3000 PSI J518 Code 61 Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		Flange		Q (mm)	C Cut-Off Factor (mm)	D Drop (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	(in.)				
C12A43340-0808	B-0808-C614	08	1/2	12.7	08	1/2	30.2	43.7	22.0	0.35
C12A43340-0812	B-0812-C614	08	1/2	12.7	12	3/4	38.1	50.4	26.0	0.48
C12A43340-1012	B-1012-C614	10	5/8	15.9	12	3/4	38.1	55.1	26.0	0.53
C12A43340-1212	B-1212-C614	12	3/4	19.0	12	3/4	38.1	63.8	32.0	0.73
C12A43340-1216	B-1216-C614	12	3/4	19.0	16	1	44.5	68.0	29.0	0.84
C12A43340-1616	B-1616-C614	16	1	25.4	16	1	44.5	72.8	33.5	1.08
C12A43340-1620	B-1620-C614	16	1	25.4	20	1 1/4	50.8	72.3	36.0	1.16

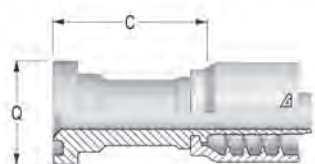
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AlfaCrimp One-Piece Fittings - C12A



90° Flange SAE 3000 PSI J518 Code 61 Solid One-Piece

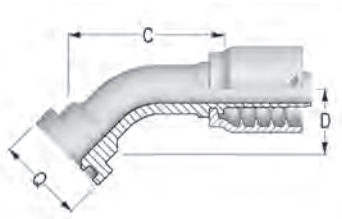
Former Part Number	New Part Number	Dash Size	Hose ID Size		Flange		Q (mm)	C Cut-Off Factor (mm)	D Drop (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	(in.)				
C12A43390-0808	B-0808-C619	08	1/2	12.7	08	1/2	30.2	45.8	42.0	0.39
C12A43390-0812	B-0812-C619	08	1/2	12.7	12	3/4	38.1	45.3	51.0	0.52
C12A43390-1212	B-1212-C619	12	3/4	19.0	12	3/4	38.1	59.7	58.0	0.81
C12A43390-1216	B-1216-C619	12	3/4	19.0	16	1	44.5	66.2	64.5	0.97
C12A43390-1616	B-1616-C619	16	1	25.4	16	1	44.5	70.6	67.0	1.18
C12A43390-1620	B-1620-C619	16	1	25.4	20	1 1/4	50.8	73.6	71.0	1.30
C12A43390-1624	B-1624-C619	16	1	25.4	24	1 1/2	60.3	93.1	75.0	2.07



Flange SAE 6000 PSI J518 Code 62

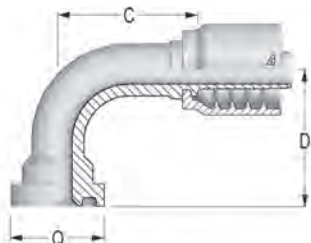
Former Part Number	New Part Number	Dash Size	Hose ID Size		Flange		Q (mm)	C Cut-Off Factor (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	(in.)			
C12A43610-0808	B-0808-C62S	08	1/2	12.7	08	1/2	31.8	47.0	0.39
C12A43610-0812	B-0812-C62S	08	1/2	12.7	12	3/4	41.3	52.0	0.56
C12A43610-1212	B-1212-C62S	12	3/4	19.0	12	3/4	41.3	52.5	0.69
C12A43610-1216	B-1216-C62S	12	3/4	19.0	16	1	47.6	55.5	0.85
C12A43610-1612	B-1612-C62S	16	1	25.4	12	3/4	41.3	56.4	0.89
C12A43610-1616	B-1616-C62S	16	1	25.4	16	1	47.6	56.4	1.03
C12A43610-1620	B-1620-C62S	16	1	25.4	20	1 1/4	54.0	63.4	1.27

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45° Flange SAE 6000 PSI J518 Code 62 Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		Flange		Q (mm)	C Cut-Off Factor (mm)	D Drop (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	(in.)				
C12A43640-0808	B-0808-C624	08	1/2	12.7	08	1/2	31.8	46.6	23.0	0.39
C12A43640-0812	B-0812-C624	08	1/2	12.7	12	3/4	41.3	67.2	30.5	0.67
C12A43640-1212	B-1212-C624	12	3/4	19.0	12	3/4	41.3	71.4	31.0	0.85
C12A43640-1216	B-1216-C624	12	3/4	19.0	16	1	47.6	65.2	33.5	1.00
C12A43640-1616	B-1616-C624	16	1	25.4	16	1	47.6	81.9	36.0	1.23
C12A43640-1620	B-1620-C624	16	1	25.4	20	1 1/4	54.0	78.4	39.0	1.47

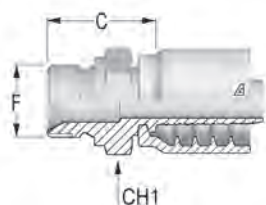


90° Flange SAE 6000 PSI J518 Code 62 Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		Flange		Q (mm)	C Cut-Off Factor (mm)	D Drop (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	(in.)				
C12A43690-0808	B-0808-C629	08	1/2	12.7	08	1/2	31.8	47.8	46	0.43
C12A43690-0812	B-0812-C629	08	1/2	12.7	12	3/4	41.3	47.8	54	0.67
C12A43690-1012	B-1012-C629	10	5/8	15.9	12	3/4	41.3	49.9	55	0.67
C12A43690-1212	B-1212-C629	12	3/4	19.0	12	3/4	41.3	63.2	61	0.92
C12A43690-1216	B-1216-C629	12	3/4	19.0	16	1	47.6	63.2	66	1.09
C12A43690-1616	B-1616-C629	16	1	25.4	16	1	47.6	73.6	75	1.36
C12A43690-1620	B-1620-C629	16	1	25.4	20	1 1/4	54.0	77.6	78	1.60

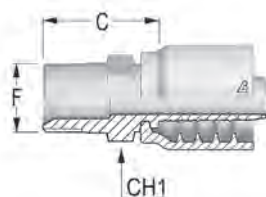
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AlfaCrimp One-Piece Fittings - C12A



BSPP Male Parallel 60° Flare

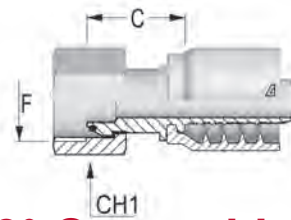
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
C12A10510-0402	B-0402-MBPP	04	1/4	6.4	02	1/8-28	21.7	14	0.10
C12A10510-0404	B-0404-MBPP	04	1/4	6.4	04	1/4-19	26.3	19	0.14
C12A10510-0406	B-0406-MBPP	04	1/4	6.4	06	3/8-19	27.8	22	0.17
C12A10510-0506	B-0506-MBPP	05	5/16	7.9	06	3/8-19	27.8	22	0.18
C12A10510-0606	B-0606-MBPP	06	3/8	9.5	06	3/8-19	27.8	22	0.19
C12A10510-0608	B-0608-MBPP	06	3/8	9.5	08	1/2-14	31.3	27	0.25
C12A10510-0806	B-0806-MBPP	08	1/2	12.7	06	3/8-19	28.6	22	0.23
C12A10510-0808	B-0808-MBPP	08	1/2	12.7	08	1/2-14	32.1	27	0.29
C12A10510-0810	B-0810-MBPP	08	1/2	12.7	10	5/8-14	36.1	30	0.32
C12A10510-0812	B-0812-MBPP	08	1/2	12.7	12	3/4-14	34.1	32	0.39
C12A10510-1010	B-1010-MBPP	10	5/8	15.9	10	5/8-14	36.1	30	0.36
C12A10510-1012	B-1012-MBPP	10	5/8	15.9	12	3/4-14	34.1	32	0.42
C12A10510-1212	B-1212-MBPP	12	3/4	19.0	12	3/4-14	34.6	32	0.50
C12A10510-1216	B-1216-MBPP	12	3/4	19.0	16	1-11	39.6	41	0.69
C12A10510-1616	B-1616-MBPP	16	1	25.4	16	1-11	40.4	41	0.83
C12A10510-1620	B-1620-MBPP	16	1	25.4	20	1 1/4-11	42.4	50	1.12



BSP/JIS Male Tapered

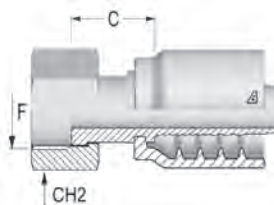
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
C12A10710-0402	B-0402-MBPT	04	1/4	6.4	02	1/8-28	21.3	12	0.10
C12A10710-0404	B-0404-MBPT	04	1/4	6.4	04	1/4-19	26.8	17	0.13
C12A10710-0406	B-0406-MBPT	04	1/4	6.4	06	3/8-19	27.8	19	0.15
C12A10710-0506	B-0506-MBPT	05	5/16	7.9	06	3/8-19	27.8	19	0.16
C12A10710-0606	B-0606-MBPT	06	3/8	9.5	06	3/8-19	27.8	19	0.18
C12A10710-0608	B-0608-MBPT	06	3/8	9.5	08	1/2-14	32.3	22	0.24
C12A10710-0808	B-0808-MBPT	08	1/2	12.7	08	1/2-14	33.1	22	0.27
C12A10710-1012	B-1012-MBPT	10	5/8	15.9	12	3/4-14	34.1	27	0.35
C12A10710-1212	B-1212-MBPT	12	3/4	19.0	12	3/4-14	34.6	27	0.44
C12A10710-1216	B-1216-MBPT	12	3/4	19.0	16	1-11	43.6	36	0.63
C12A10710-1616	B-1616-MBPT	16	1	25.4	16	1-11	44.4	36	0.77

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BSPP Female 60° Cone with O-Ring

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
C12A20813-0404	B-0404-FBPO	04	1/4	6.4	04	1/4-19	16.0	19	0.15
C12A20813-0406	B-0406-FBPO	04	1/4	6.4	06	3/8-19	16.0	22	0.19
C12A20813-0506	B-0506-FBPO	05	5/16	7.9	06	3/8-19	23.3	22	0.20
C12A20811-0604	B-0604-FBPO	06	3/8	9.5	04	1/4-19	17.3	19	0.18
C12A20813-0606	B-0606-FBPO	06	3/8	9.5	06	3/8-19	17.0	22	0.21
C12A20813-0608	B-0608-FBPO	06	3/8	9.5	08	1/2-14	24.3	27	0.27
C12A20813-0808	B-0808-FBPO	08	1/2	12.7	08	1/2-14	18.0	27	0.30
C12A20813-0810	B-0810-FBPO	08	1/2	12.7	10	5/8-14	28.4	27	0.32
C12A20813-0812	B-0812-FBPO	08	1/2	12.7	12	3/4-14	22.0	32	0.41
C12A20811-1010	B-1010-FBPO	10	5/8	15.9	10	5/8-14	17.1	27	0.28
C12A20813-1012	B-1012-FBPO	10	5/8	15.9	12	3/4-14	20.0	32	0.43
C12A20811-1212	B-1212-FBPO	12	3/4	19.0	12	3/4-14	20.6	32	0.43
C12A20813-1216	B-1216-FBPO	12	3/4	19.0	16	1-11	34.0	38	0.64
C12A20811-1616	B-1616-FBPO	16	1	25.4	16	1-11	23.9	38	0.66
C12A20813-1620	B-1620-FBPO	16	1	25.4	20	1 1/4-11	39.4	50	1.18

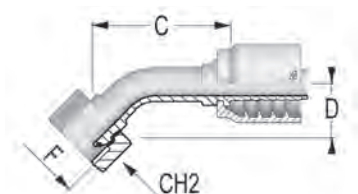


BSPP Female Flat Seat

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
C12A20613-0606	B-0606-FBFS	06	3/8	9.5	06	3/8-19	20.3	22	0.20
C12A20613-0608	B-0608-FBFS	06	3/8	9.5	08	1/2-14	20.8	27	0.27
C12A20613-0808	B-0808-FBFS	08	1/2	12.7	08	1/2-14	21.6	27	0.30
C12A20611-1212	B-1212-FBFS	12	3/4	19.0	12	3/4-14	18.1	32	0.42

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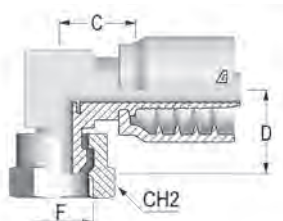
AlfaCrimp One-Piece Fittings - C12A



45° BSPP Female 60° cone with O-Ring Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A20843-0404	B-0404-FB04	04	1/4	6.4	04	1/4-19	45.5	15.0	19	0.17
C12A20843-0406	B-0406-FB04	04	1/4	6.4	06	3/8-19	41.5	18.0	22	0.21
C12A20843-0506	B-0506-FB04	05	5/16	7.9	06	3/8-19	45.1	19.0	22	0.24
C12A20843-0606	B-0606-FB04	06	3/8	9.5	06	3/8-19	49.9	20.5	22	0.25
C12A20843-0608	B-0608-FB04	06	3/8	9.5	08	1/2-14	45.7	21.0	27	0.31
C12A20843-0808	B-0808-FB04	08	1/2	12.7	08	1/2-14	55.0	21.0	27	0.36
C12A20843-0810	B-0810-FB04	08	1/2	12.7	10	5/8-14	57.2	23.0	27	0.38
C12A20843-0812	B-0812-FB04	08	1/2	12.7	12	3/4-14	56.7	23.0	32	0.46
C12A20841-1010	B-1010-FB04	10	5/8	15.9	10	5/8-14	64.0	21.5	27	0.42
C12A20843-1012	B-1012-FB04	10	5/8	15.9	12	3/4-14	66.5	22.5	32	0.54
C12A20841-1212	B-1212-FB04	12	3/4	19.0	12	3/4-14	67.6	28.0	32	0.57
C12A20843-1216	B-1216-FB04	12	3/4	19.0	16	1-11	74.5	31.5	38	0.85
C12A20841-1616	B-1616-FB04	16	1	25.4	16	1-11	72.5	34.0	38	1.03

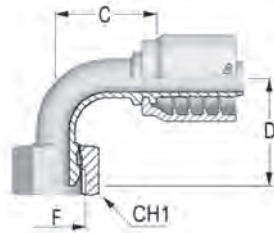
NEW



90° Compact BSPP Female 60° Cone

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A20581-0404	B-0404-FBC9	04	3/8	6.4	04	1/4-19	16.8	19.5	19	0.13
C12A20581-0606	B-0606-FBC9	06	3/8	9.5	06	3/8-19	19.5	21.5	22	0.16
C12A20581-0808	B-0808-FBC9	08	1/2	12.7	08	1/2-14	22.2	22.5	27	0.27
C12A20581-1212	B-1212-FBC9	12	3/4	19.0	12	3/4-14	26.7	31.0	32	0.66
C12A20581-1616	B-1616-FBC9	16	1	25.4	16	1-11	34.5	27.5	38	0.96

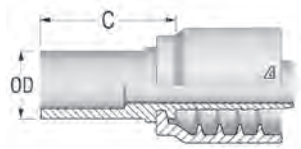
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90° BSPP Female 60° Cone with O-Ring Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A20893-0404	B-0404-FB09	04	1/4	6.4	04	1/4-19	29.3	29.0	19	0.17
C12A20893-0406	B-0406-FB09	04	1/4	6.4	06	3/8-19	29.8	31.0	22	0.22
C12A20893-0506	B-0506-FB09	05	5/16	7.9	06	3/8-19	33.2	36.0	22	0.25
C12A20893-0606	B-0606-FB09	06	3/8	9.5	06	3/8-19	34.8	42.0	22	0.26
C12A20893-0608	B-0608-FB09	06	3/8	9.5	08	1/2-14	34.3	35.5	27	0.32
C12A20893-0808	B-0808-FB09	08	1/2	12.7	08	1/2-14	35.8	41.0	27	0.37
C12A20893-0810	B-0810-FB09	08	1/2	12.7	10	5/8-14	42.5	44.0	27	0.40
C12A20893-0812	B-0812-FB09	08	1/2	12.7	12	3/4-14	42.5	43.0	32	0.48
C12A20891-1010	B-1010-FB09	10	5/8	15.9	10	5/8-14	47.9	47.0	27	0.47
C12A20893-1012	B-1012-FB09	10	5/8	15.9	12	3/4-14	51.9	49.0	32	0.57
C12A20891-1212	B-1212-FB09	12	3/4	19.0	12	3/4-14	53.5	53.0	32	0.66
C12A20893-1216	B-1216-FB09	12	3/4	19.0	16	1-11	54.0	61.0	38	0.91
C12A20891-1616	B-1616-FB09	16	1	25.4	16	1-11	75.1	69.0	38	1.16
C12A20893-1620	B-1620-FB09	16	1	25.4	20	1 1/4-11	75.1	88.5	50	1.68

NEW

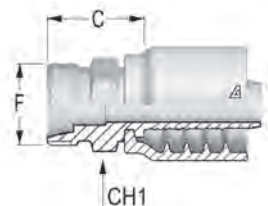


Metric Straight Standpipe DIN 2353

Former Part Number	New Part Number	Dash Size	Hose ID Size		Dash Size	Tube OD (mm)	C Cut-Off Factor (mm)	Weight Each (lbs.)
			(in.)	(mm)				
C12A52010-0408	B-0408-MSPS	04	1/4	6.4	08	8	30.2	0.10
C12A52010-0610	B-0610-MSPS	06	3/8	9.5	10	10	30.3	0.13
C12A52010-0815	B-0815-MSPS	08	1/2	12.7	15	15	32.1	0.20
C12A52010-0816	B-0816-MSPS	08	1/2	12.7	16	16	37.1	0.22

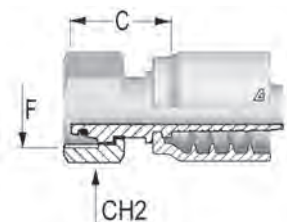
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AlfaCrimp One-Piece Fittings - C12A



Metric Male 24° Seat - Light DIN 3853

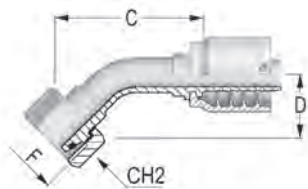
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Dia x Pitch	Tube OD (mm)	C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)					
C12A11110-0412	B-0412-MMSL	04	1/4	6.4	12x1.5	6	21.3	14	0.11
C12A11110-0414	B-0414-MMSL	04	1/4	6.4	14x1.5	8	21.3	14	0.11
C12A11110-0416	B-0416-MMSL	04	1/4	6.4	16x1.5	10	23.3	17	0.12
C12A11110-0516	B-0516-MMSL	05	5/16	7.9	16x1.5	10	23.3	17	0.14
C12A11110-0518	B-0518-MMSL	05	5/16	7.9	18x1.5	12	24.3	19	0.15
C12A11110-0616	B-0616-MMSL	06	3/8	9.5	16x1.5	10	23.3	17	0.15
C12A11110-0618	B-0618-MMSL	06	3/8	9.5	18x1.5	12	24.3	19	0.16
C12A11110-0622	B-0622-MMSL	06	3/8	9.5	22x1.5	15	25.3	22	0.19
C12A11110-0822	B-0822-MMSL	08	1/2	12.7	22x1.5	15	26.1	22	0.23
C12A11110-0826	B-0826-MMSL	08	1/2	12.7	26x1.5	18	27.1	27	0.28
C12A11110-1026	B-1026-MMSL	10	5/8	15.9	26x1.5	18	27.1	27	0.32
C12A11110-1230	B-1230-MMSL	12	3/4	19.0	30x2.0	22	31.6	32	0.45
C12A11110-1636	B-1636-MMSL	16	1	25.4	36x2.0	28	34.4	36	0.66



Metric Female 24° Cone with O-Ring - Light DIN 3865

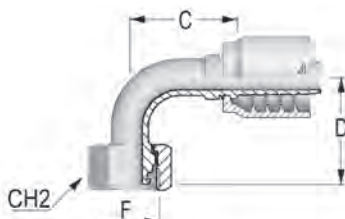
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Dia x Pitch	Tube OD (mm)	C Cut-Off Factor (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)					
C12A21511-0412	B-0412-FMOL	04	1/4	6.4	12x1.5	6	24.8	14	0.11
C12A21513-0414	B-0414-FMOL	04	1/4	6.4	14x1.5	8	24.4	17	0.13
C12A21513-0416	B-0416-FMOL	04	1/4	6.4	16x1.5	10	25.4	19	0.15
C12A21513-0516	B-0516-FMOL	05	5/16	7.9	16x1.5	10	25.4	19	0.16
C12A21512-0616	B-0616-FMOL	06	3/8	9.5	16x1.5	10	25.4	19	0.18
C12A21513-0618	B-0618-FMOL	06	3/8	9.5	18x1.5	12	25.4	22	0.20
C12A21513-0622	B-0622-FMOL	06	3/8	9.5	22x1.5	15	27.4	27	0.27
C12A21513-0822	B-0822-FMOL	08	1/2	12.7	22x1.5	15	28.2	27	0.30
C12A21513-0826	B-0826-FMOL	08	1/2	12.7	26x1.5	18	29.2	32	0.38
C12A21513-1026	B-1026-FMOL	10	5/8	15.9	26x1.5	18	29.2	32	0.40
C12A21513-1230	B-1230-FMOL	12	3/4	19.0	30x2.0	22	31.7	36	0.55
C12A21513-1636	B-1636-FMOL	16	1	25.4	36x2.0	28	33.6	41	0.77

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



45° Metric Female 24° Cone with O-Ring - Light DIN 3865 Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Dia x Pitch	Tube OD (mm)	C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)						
C12A21543-0414	B-0414-FM4L	04	1/4	6.4	14x1.5	8	43.0	17.5	17	0.15
C12A21543-0416	B-0416-FM4L	04	1/4	6.4	16x1.5	10	42.0	20.0	19	0.17
C12A21543-0516	B-0516-FM4L	05	5/16	7.9	16x1.5	10	47.5	20.0	19	0.19
C12A21542-0616	B-0616-FM4L	06	3/8	9.5	16x1.5	10	46.8	20.0	19	0.21
C12A21543-0618	B-0618-FM4L	06	3/8	9.5	18x1.5	12	46.8	19.5	22	0.23
C12A21543-0822	B-0822-FM4L	08	1/2	12.7	22x1.5	15	55.0	21.0	27	0.35
C12A21543-1026	B-1026-FM4L	10	5/8	15.9	26x1.5	18	65.3	24.0	32	0.50
C12A21543-1230	B-1230-FM4L	12	3/4	19.0	30x2.0	22	69.4	32.0	36	0.69
C12A21543-1636	B-1636-FM4L	16	1	25.4	36x2.0	28	91.4	32.0	41	1.09

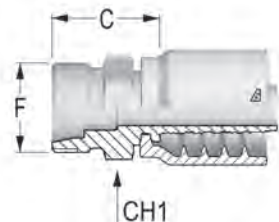


90° Metric Female 24° Cone with O-Ring - Light DIN 3865 Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Dia x Pitch	Tube OD (mm)	C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)						
C12A21591-0412	B-0412-FM9L	04	1/4	6.4	12x1.5	6	29.5	26.0	14	0.13
C12A21593-0414	B-0414-FM9L	04	1/4	6.4	14x1.5	8	28.3	32.5	17	0.15
C12A21593-0416	B-0416-FM9L	04	1/4	6.4	16x1.5	10	28.3	32.5	19	0.17
C12A21593-0418	B-0418-FM9L	04	1/4	6.4	18x1.5	12	28.3	35.0	22	0.20
C12A21593-0516	B-0516-FM9L	05	5/16	7.9	16x1.5	10	33.7	38.0	19	0.20
C12A21592-0616	B-0616-FM9L	06	3/8	9.5	16x1.5	10	32.8	38.0	19	0.22
C12A21593-0618	B-0618-FM9L	06	3/8	9.5	18x1.5	12	32.8	39.0	22	0.25
C12A21593-0822	B-0822-FM9L	08	1/2	12.7	22x1.5	15	39.8	40.5	27	0.36
C12A21593-1026	B-1026-FM9L	10	5/8	15.9	26x1.5	18	51.4	48.0	32	0.53
C12A21593-1030	B-1030-FM9L	10	5/8	15.9	30x2.0	22	52.4	49.0	36	0.62
C12A21593-1230	B-1230-FM9L	12	3/4	19.0	30x2.0	22	52.1	59.0	36	0.75
C12A21593-1636	B-1636-FM9L	16	1	25.4	36x2.0	28	77.6	68.0	41	1.23

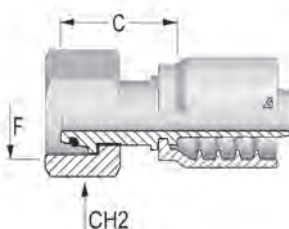
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

AlfaCrimp One-Piece Fittings - C12A



Metric Male 24° Seat - Heavy DIN 3853

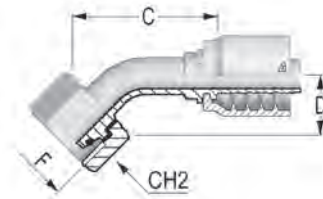
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Dia x Pitch	Tube OD (mm)	C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)					
C12A11210-0418	B-0418-MMSH	04	1/4	6.4	18x1.5	10	25.3	19	0.15
C12A11210-0520	B-0520-MMSH	05	5/16	7.9	20x1.5	12	25.3	22	0.18
C12A11210-0620	B-0620-MMSH	06	3/8	9.5	20x1.5	12	25.3	22	0.19
C12A11210-0622	B-0622-MMSH	06	3/8	9.5	22x1.5	14	27.3	22	0.21
C12A11210-0824	B-0824-MMSH	08	1/2	12.7	24x1.5	16	29.1	24	0.27
C12A11210-1030	B-1030-MMSH	10	5/8	15.9	30x2.0	20	33.1	32	0.41
C12A11210-1230	B-1230-MMSH	12	3/4	19.0	30x2.0	20	37.6	36	0.49
C12A11210-1236	B-1236-MMSH	12	3/4	19.0	36x2.0	25	33.6	32	0.60
C12A11210-1642	B-1642-MMSH	16	1	25.4	42x2.0	30	42.4	46	0.98



Metric Female 24° Cone with O-Ring - Heavy DIN 3865

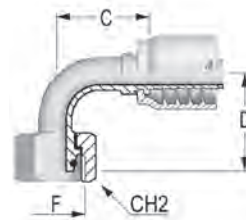
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Dia x Pitch	Tube OD (mm)	C Cut-Off Factor (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)					
C12A21613-0416	B-0416-FMOH	04	1/4	6.4	16x1.5	8	27.7	19	0.15
C12A21613-0418	B-0418-FMOH	04	1/4	6.4	18x1.5	10	27.6	22	0.19
C12A21613-0520	B-0520-FMOH	05	5/16	7.9	20x1.5	12	27.6	24	0.21
C12A21613-0618	B-0618-FMOH	06	3/8	9.5	18x1.5	10	27.6	22	0.21
C12A21613-0620	B-0620-FMOH	06	3/8	9.5	20x1.5	12	27.6	24	0.23
C12A21613-0622	B-0622-FMOH	06	3/8	9.5	22x1.5	14	31.1	27	0.30
C12A21613-0820	B-0820-FMOH	08	1/2	12.7	20x1.5	12	31.9	24	0.27
C12A21613-0824	B-0824-FMOH	08	1/2	12.7	24x1.5	16	31.7	30	0.37
C12A21613-1030	B-1030-FMOH	10	5/8	15.9	30x2.0	20	36.5	36	0.56
C12A21613-1230	B-1230-FMOH	12	3/4	19.0	30x2.0	20	37.0	36	0.65
C12A21613-1236	B-1236-FMOH	12	3/4	19.0	36x2.0	25	39.6	46	0.94
C12A21613-1636	B-1636-FMOH	16	1	25.4	36x2.0	25	41.0	46	1.06
C12A21613-1642	B-1642-FMOH	16	1	25.4	42x2.0	30	43.1	50	1.20

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45° Metric Female 24° Cone with O-Ring - Heavy DIN 3865 Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Dia x Pitch	Tube OD (mm)	C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)						
C12A21643-0416	B-0416-FM4H	04	1/4	6.4	16x1.5	8	48.6	16.0	19	0.17
C12A21643-0418	B-0418-FM4H	04	1/4	6.4	18x1.5	10	43.5	19.0	22	0.21
C12A21643-0520	B-0520-FM4H	05	5/16	7.9	20x1.5	12	48.1	21.0	24	0.25
C12A21643-0620	B-0620-FM4H	06	3/8	9.5	20x1.5	12	50.6	20.0	24	0.26
C12A21643-0622	B-0622-FM4H	06	3/8	9.5	22x1.5	14	52.9	21.0	27	0.32
C12A21643-0824	B-0824-FM4H	08	1/2	12.7	24x1.5	16	55.8	21.5	30	0.41
C12A21643-1030	B-1030-FM4H	10	5/8	15.9	30x2.0	20	66.3	30.0	36	0.65
C12A21643-1236	B-1236-FM4H	12	3/4	19.0	36x2.0	25	69.5	33.0	46	1.06
C12A21643-1642	B-1642-FM4H	16	1	25.4	42x2.0	30	110.3	40.5	50	1.60



90° Metric Female 24° Cone with O-Ring - Heavy DIN 3865 Solid One-Piece

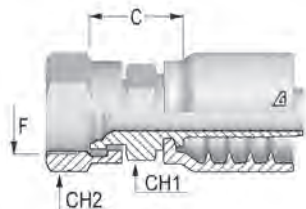
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Dia x Pitch	Tube OD (mm)	C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)						
C12A21693-0416	B-0416-FM9H	04	1/4	6.4	16x1.5	8	27.3	33.0	19	0.17
C12A21693-0418	B-0418-FM9H	04	1/4	6.4	18x1.5	10	26.8	34.0	22	0.20
C12A21693-0520	B-0520-FM9H	05	5/16	7.9	20x1.5	12	33.2	39.0	24	0.27
C12A21692-0618	B-0618-FM9H	06	3/8	9.5	18x1.5	10	34.3	38.5	24	0.27
C12A21693-0620	B-0620-FM9H	06	3/8	9.5	20x1.5	12	34.3	38.5	24	0.28
C12A21693-0622	B-0622-FM9H	06	3/8	9.5	22x1.5	14	34.3	40.5	27	0.33
C12A21693-0824	B-0824-FM9H	08	1/2	12.7	24x1.5	16	39.8	41.5	30	0.42
C12A21693-1030	B-1030-FM9H	10	5/8	15.9	30x2.0	20	47.9	55.0	36	0.68
C12A21693-1230	B-1230-FM9H	12	3/4	19.0	30x2.0	20	50.6	58.0	36	0.84
C12A21693-1236	B-1236-FM9H	12	3/4	19.0	36x2.0	25	50.6	59.5	46	1.14
C12A21693-1642	B-1642-FM9H	16	1	25.4	42x2.0	30	75.6	79.0	50	1.65

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AlfaCrimp One-Piece Fittings - C12A



NEW



Komatsu Female

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12A24011-0414	B-0414-FKOS	04	1/4	6.4	14	14x1.5	20.8	17	19	0.17
C12A24011-0618	B-0618-FKOS	06	3/8	9.5	18	18x1.5	21.8	19	22	0.21
C12A24011-0822	B-0822-FKOS	08	1/2	12.7	22	22x1.5	23.6	22	27	0.31
C12A24011-1024	B-1024-FKOS	10	5/8	15.9	24	24x1.5	27.1	30	32	0.51
C12A24011-1230	B-1230-FKOS	12	3/4	19.0	30	30x1.5	27.6	30	36	0.61
C12A24011-1633	B-1633-FKOS	16	1	25.4	33	33x1.5	35.7	36	41	1.01

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

One-Piece AlfaCrimp C124 Fittings Index

HOSES

C121

C122

C124

C124

C126

TWO PIECE FERRULES
(STANDARD & INTERLOCK)H12 STANDARD
INSERTSH14 AND H1T
INTERLOCK INSERTS

CRIMPERS

TECHNICAL
INFORMATION**NPTF**

NPTF Solid Male 60° Seat158



NPTF Male Swivel 60° Seat 158



NPTF Solid Female Rigid..... 159

JIC

JIC Solid Male 37° 160

JIC Female Swivel 37°
Seat..... 160-16145° JIC Female Swivel 37° Seat
Solid One-Piece16190° JIC Female Swivel 37° Seat
Solid One-Piece 162**SAE**

SAE Solid Male O-Ring Boss159



SAE Female Swivel 45° Seat163

ORFS

ORFS Solid Male 163

ORFS (continued)

ORFS Female.....164

45° ORFS Female Solid
One-Piece.....16490° ORFS Female Solid One-Piece
ISO 12151-1165**SAE Flange Code 61**O-Ring Flange SAE J518 Code 61
Straight..... 16622° O-Ring Flange SAE J518 Code
61 Solid One-Piece 16630° O-Ring Flange SAE J518 Code
61 Solid One-Piece 16745° O-Ring Flange SAE J518 Code
61 Solid One-Piece 16760° O-Ring Flange SAE J518 Code
61 Solid One-Piece 16890° O-Ring Flange SAE J518 Code
61 Solid One-Piece 168**SAE Flange Code 62**Flange 6000 PSI SAE J518
Code 62 169

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

One-Piece AlfaCrimp C124 Fittings Index

SAE Flange Code 62 (continued)



45° Flange 6000 PSI SAE J518 Code
62 Solid One-Piece 169



90° Flange 6000 PSI SAE J518 Code
62 Solid One-Piece 170

BSP



BSP/JIS Solid Male Tapered 170



BSP Solid Male Parallel 60° Seat.. 171



BSP O-Ring Female Swivel 60°
Cone 171-172



45° BSP O-Ring Female Swivel 60°
Cone Solid One-Piece 172-173



90° BSP O-Ring Female Swivel 60°
Cone Solid One-Piece 173-174

Metric



Metric Solid Male 24° Seat
DIN 3853 – Light 174



Metric Solid Male 24° Seat
DIN 3861 – Heavy 175



Metric Swivel Female O-Ring 24°
Seat DIN 3865 – Light 175



Metric Swivel Female O-Ring
24° Seat DIN 3865 – Heavy 176



45° Metric O-Ring Female Swivel
24° Seat DIN 3865 – Light – Solid
One-Piece 176



45° Metric O-Ring Female Swivel
24° Seat DIN 3865 – Heavy – Solid
One-Piece 177



90° Metric O-Ring Female Swivel
24° Seat DIN 3865 – Light – Solid
One-Piece 177



90° Metric O-Ring Female Swivel
24° Seat DIN 3865 – Heavy – Solid
One-Piece 178

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Fitting Configuration Chart



HOSES

C121

C122

C12A

C124

C126

TWO PIECE FERRULES
(STANDARD & INTERLOCK)

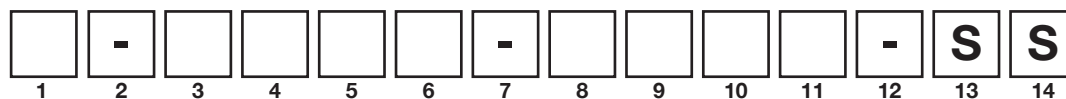
H12 STANDARD
INSERTS

H14 AND H1T
INTERLOCK INSERTS

CRIMPERS

TECHNICAL
INFORMATION

Fitting Type Hose Size Fitting Size Fitting Configuration Optional for Stainless Steel Fittings



1-Piece

B – C12A
Q – C121
C – C122
D – C124
F – C126
H – C12H
M – C12R

2-Piece

A – H12
X – H14
Z – H1T
K – H1K

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-14 or 7/8"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-14 or 7/8"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

Fitting Configuration Chart – Fitting Type Explanation

B – C12A – One piece non-skive crimp fitting for all braided hoses up to 1" ID.
Q – C121 – One piece non-skive crimp fitting for Alfatech 3000 (AT3KMT) hose and Alfajet 210 (TAJ3BK/TAJ3BU) 1/4" ID thru 1/2" ID only, while supplies last.

C – C122 – One piece non-skive crimp fitting for braided hose except Alfatech 3000 (AT3KMT) and Alfajet 210 (TAJ3BK/TAJ3BU) 1/4" ID thru 1/2" ID only, while supplies last.

D – C124 – One piece non-skive crimp fitting for SAE 100R1 and 100R2 wire braided hose and 4 wire spiral hose Flexor 12 (TR12) 1/2" ID thru 2" ID and Alfabiotech 3000 1 1/4" thru 2".

F – C126 – One piece non-skive crimp fitting for Flexor 12 (TR12), 4SH (T4SH), Flexor 13 (TR13), Alfatech 5000, Alfabiotech 5000 3/4" thru 1 1/2" and Alfabiotech 6000 3/4" thru 1 1/4".

H – C12H – One piece non-skive crimp fitting for 4SH (T4SH) in 2" size only.

M – C12R – One Piece non-skive crimp fitting for Flexor 13 (TR13) in 2" size only.

A – H12 – Two piece insert for all wire and textile braided hoses, thermoplastic hose, Flexor 4 and PTFE hose 3/16" thru 2" and Flexor 12 (TR12) 1/2" thru 1 1/2" along with some spiral wire reinforced hoses thru 1 1/2".

X – H14 – Two piece Interlock insert for spiral wire reinforced hoses. Requires both internal and external skiving and a XF1 or XF2 Interlock ferrule to perform properly.

Z – H1T – Two piece Interlock insert for Alfatech 6000 (AT6K) in 2" size only. Requires both internal and external skiving and a ZF1 Interlock ferrule to perform properly.

K – H1K – Two piece insert for Flexor Rig 48, 3" ID size only. Requires a KS1 skive ferrule to perform properly.

TYPE	SUFFIX	DESCRIPTION
NPTF	FNPR	Female National Pipe Rigid
	FPMS	Female Pipe Straight Mechanical Swivel
	FNPS	Female National Pipe Swivel
	MNPT	Male Pipe NPTF
	MNPS	Male National Pipe Swivel
	MPS9	Male Pipe Swivel 90 Degree
JIC	FJSH	Female JIC Single Hex Swivel
	FJDH	Female JIC Double Hex Swivel
	FJ45	Female JIC 45 Degree Swivel
	FJ9L	Female JIC 90 Degree Long Swivel
	FJ9M	Female JIC 90 Degree Medium Swivel
	FJ9S	Female JIC 90 Degree Short Swivel
	MJIC	Male JIC
SAE	FSAE	Female SAE Swivel
	MORB	Male O-Ring Boss
	MOBS	Male O-Ring Boss Swivel
	MBS9	Male O-Ring Boss Swivel 90 Degree
	MIFL	Male Inverted Flare
	MIF4	Male Inverted Flare 45 Degree
	MIF9	Male Inverted Flare 90 Degree
	MSAE	Male SAE
ORFS	FOFS	Female O-Ring Face Seal Swivel
	F030	Female O-Ring Face Seal 30 Degree Medium Swivel
	F045	Female O-Ring Face Seal 45 Degree Swivel
	F09L	Female O-Ring Face Seal 90 Degree Long Swivel
	F09M	Female O-Ring Face Seal 90 Degree Medium Swivel
	F09S	Female O-Ring Face Seal 90 Degree Short Swivel
	MOFS	Male O-Ring Face Seal
SAE Flange Code 61	C61S	Code 61 Flange Straight
	C612	Code 61 Flange 22 Degree
	C613	Code 61 Flange 30 Degree
	C614	Code 61 Flange 45 Degree
	C616	Code 61 Flange 60 Degree
	C619	Code 61 Flange 90 Degree
SAE Flange Code 62	C62S	Code 62 Flange Straight
	C624	Code 62 Flange 45 Degree
	C629	Code 62 Flange 90 Degree

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

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Alfacrimp Fitting Selection Chart



Former Part Numbers

Hose		-04	-05	-06	-08	-10	-12	-16	-20	-24	-32
		DN 6	DN 8	DN 10	DN 12	DN 16	DN 19	DN 25	DN 32	DN 38	DN 51
		1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
HF and MT (MSHA) Cover	FLEXOR 1SN MINETUFF	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124	C124	C124
	FLEXOPACK 2SC	C12A	C12A	C12A	C12A	C12A	C12A	C12A			
	FLEXOR 2SN MINETUFF	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124	C124	C124
	FLEXOPACK 2 MINETUFF and LOW TEMP	C12A	C12A	C12A	C12A	C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
	ALFATECH 3000 MINETUFF	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124		
		C121	C121	C121	C121						
MSHA cover, HT and Temp Tech	FLEXOR 1SN MSHA	C12A	C12A	C12A	C12A	C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
	FLEXOR 1SN TEMP TECH					C124	C124	C124	C124	C124	C124
		C12A		C12A	C12A	C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
	FLEXOR 2SN MSHA					C124	C124	C124	C124	C124	C124
		C12A	C12A	C12A		C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
	FLEXOR 2SN TEMP TECH					C124	C124	C124	C124	C124	C124
		C12A		C12A		C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
Wire Spiral Hoses	ALFATECH 4000			C124	C124	C124	C124	C124		C126	C12H
	ALFATECH 5000							C126	C126	C126	C12R
	FLEXOR R12			C124	C124	C124	C124	C124	C124	C124	C124
							C126	C126	C126	C126	
	FLEXOR 4SH						C126	C126	C126	C126	C12H
	FLEXOR R13						C126	C126	C126	C126	C12R
	ALFABIOTECH 3000								C124	C124	C124
	ALFABIOTECH 4000						C124	C124			
	ALFABIOTECH 5000						C126	C126	C126	C126	C12R
	ALFABIOTECH 5500						C126*	C126*			
	ALFABIOTECH 6000						C126	C126	C126		
	FLEXOR RIG							C126	C126	C126	C12R

* under validation

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

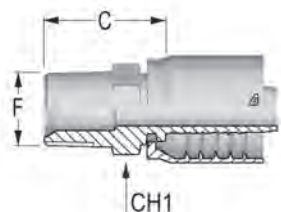
New Part Numbers

Hose		-04	-05	-06	-08	-10	-12	-16	-20	-24	-32
		DN 6	DN 8	DN 10	DN 12	DN 16	DN 19	DN 25	DN 32	DN 38	DN 51
		1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
HF and MT (MSHA) Cover	FLEXOR 1SN MINETUFF	B	B	B	B	B	B	B	D	D	D
	FLEXOPACK 2SC	B	B	B	B	B	B	B			
	FLEXOR 2SN MINETUFF	B	B	B	B	B	B	B	D	D	D
	FLEXOPACK 2 MINETUFF and LOW TEMP	B	B	B	B	B	B	B			
		C	C	C	C	C	C	C			
	ALFATECH 3000 MINETUFF	B	B	B	B	B	B	B	D		
		Q	Q	Q	Q						
MSHA cover, HT and Temp Tech	FLEXOR 1SN MSHA	B	B	B	B	B	B	B			
		C	C	C	C	C	C	C			
						D	D	D	D	D	D
	FLEXOR 1SN TEMP TECH	B		B	B	B	B	B			
		C	C	C	C	C	C	C			
						D	D	D	D	D	D
	FLEXOR 2SN MSHA	B	B	B		B	B	B			
		C	C	C	C	C	C	C			
				D	D	D	D	D	D	D	D
	FLEXOR 2SN TEMP TECH	B		B		B	B	B			
		C	C	C	C	C	C	C			
				D	D	D	D	D	D	D	D
Wire Spiral Hoses	ALFATECH 4000			D	D	D	D	D		F	H
	ALFATECH 5000							F	F	F	M
	FLEXOR R12			D	D	D	D	D	D	D	D
							F	F	F	F	
	FLEXOR 4SH						F	F	F	F	H
	FLEXOR R13						F	F	F	F	M
	ALFABIOTECH 3000								D	D	D
	ALFABIOTECH 4000						D	D			
	ALFABIOTECH 5000						F	F	F	F	M
	ALFABIOTECH 5500						F*	F*			
	ALFABIOTECH 6000						F	F	F		
	FLEXOR RIG							F	F	F	M

* under validation

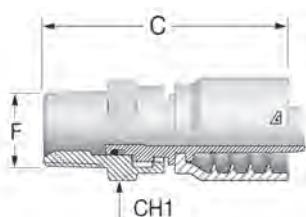
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AlfaCrimp One-Piece Fittings - C124



NPTF Solid Male 60° Seat

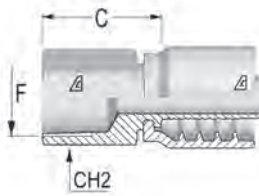
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12412810-0604	D-0604-MNPT	R12	06	3/8	9.5	04	1/4-18	26.8	17	0.18
C12412810-0606	D-0606-MNPT	R12	06	3/8	9.5	06	3/8-18	27.8	19	0.20
C12412810-0608	D-0608-MNPT	R12	06	3/8	9.5	08	1/2-14	31.3	22	0.27
C12412810-0806	D-0806-MNPT	R12	08	1/2	12.7	06	3/8-18	28.6	19	0.25
C12412810-0808	D-0808-MNPT	R12	08	1/2	12.7	08	1/2-14	32.1	22	0.31
C12412810-0812	D-0812-MNPT	R12	08	1/2	12.7	12	3/4-14	34.1	27	0.36
C12412810-1012	D-1012-MNPT	R1AT/R2AT/R12	10	5/8	15.9	12	3/4-14	34.1	27	0.40
C12412810-1212	D-1212-MNPT	R1AT/R2AT/R12	12	3/4	19.0	12	3/4-14	34.6	27	0.50
C12412810-1216	D-1216-MNPT	R1AT/R2AT/R12	12	3/4	19.0	16	1-11 1/2	43.6	36	0.70
C12412810-1616	D-1616-MNPT	R1AT/R2AT/R12	16	1	25.4	16	1-11 1/2	44.4	36	0.97
C12412810-1620	D-1620-MNPT	R1AT/R2AT/R12	16	1	25.4	20	1 1/4-11 1/2	47.4	46	1.23
C12412810-2020	D-2020-MNPT	R1AT/R2AT/R12	20	1 1/4	31.8	20	1 1/4-11 1/2	49.0	46	1.40
C12412810-2024	D-2024-MNPT	R1AT/R2AT/R12	20	1 1/4	31.8	24	1 1/2-11 1/2	50.5	50	1.53
C12412810-2424	D-2424-MNPT	R1AT/R2AT/R12	24	1 1/2	38.1	24	1 1/2-11 1/2	50.5	50	1.79
C12412810-3232	D-3232-MNPT	R1AT/R2AT/R12	32	2	50.8	32	2-11 1/2	54.2	65	2.69



NPTF Male Swivel 60° Seat

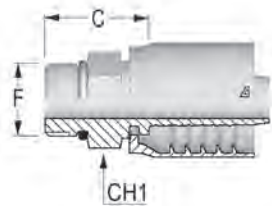
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12412811-1212	D-1212-MNPS	R1AT/R2AT/R12	12	3/4	19.0	12	3/4-14	50.1	32	0.55
C12412811-1616	D-1616-MNPS	R1AT/R2AT/R12	16	1	25.4	16	1-11 1/2	57.9	41	1.06

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NPTF Solid Female Rigid

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12422810-1212	D-1212-FNPR	R1AT/R2AT/R12	12	3/4	19.0	12	3/4-14	38.1	32	0.58
C12422810-1616	D-1616-FNPR	R1AT/R2AT/R12	16	1	25.4	16	1-11 1/2	44.9	38	1.01

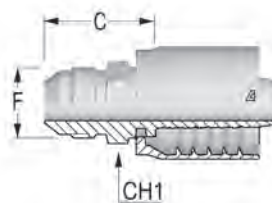


SAE Solid Male O-Ring Boss

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12413010-0606	D-0606-MORB	R12	06	3/8	9.5	06	9/16-18	23.3	19	0.19
C12413010-0608	D-0608-MORB	R12	06	3/8	9.5	08	3/4-16	24.3	22	0.23
C12413010-0610	D-0610-MORB	R12	06	3/8	9.5	10	7/8-14	26.8	27	0.27
C12413010-0808	D-0808-MORB	R12	08	1/2	12.7	08	3/4-16	25.1	22	0.28
C12413010-0810	D-0810-MORB	R12	08	1/2	12.7	10	7/8-14	27.6	27	0.36
C12413010-0812	D-0812-MORB	R12	08	1/2	12.7	12	1 1/16-12	32.1	32	0.36
C12413010-1210	D-1210-MORB	R1AT/R2AT/R12	12	3/4	19.0	10	7/8-14	28.1	27	0.48
C12413010-1212	D-1212-MORB	R1AT/R2AT/R12	12	3/4	19.0	12	1 1/16-12	32.6	32	0.55
C12413010-1216	D-1216-MORB	R1AT/R2AT/R12	12	3/4	19.0	16	1 5/16-12	34.6	38	0.68
C12413010-1616	D-1616-MORB	R1AT/R2AT/R12	16	1	25.4	16	1 5/16-12	35.4	38	0.98

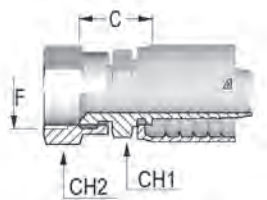
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AlfaCrimp One-Piece Fittings - C124



JIC Solid Male 37°

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12412510-0606	D-0606-MJIC	R12	06	3/8	9.5	06	9/16-18	26.3	17	0.18
C12412510-0608	D-0608-MJIC	R12	06	3/8	9.5	08	3/4-16	29.8	19	0.22
C12412510-0808	D-0808-MJIC	R12	08	1/2	12.7	08	3/4-16	30.6	19	0.25
C12412510-0810	D-0810-MJIC	R12	08	1/2	12.7	10	7/8-14	34.6	24	0.30
C12412510-0812	D-0812-MJIC	R12	08	1/2	12.7	12	1 1/16-12	37.1	27	0.36
C12412510-1010	D-1010-MJIC	R1AT/R2AT/R12	10	5/8	15.9	10	7/8-14	34.6	24	0.36
C12412510-1012	D-1012-MJIC	R1AT/R2AT/R12	10	5/8	15.9	12	1 1/16-12	37.1	27	0.41
C12412510-1212	D-1212-MJIC	R1AT/R2AT/R12	12	3/4	19.0	12	1 1/16-12	37.6	27	0.51
C12412510-1214	D-1214-MJIC	R1AT/R2AT/R12	12	3/4	19.0	14	1 3/16-12	40.1	32	0.60
C12412510-1216	D-1216-MJIC	R1AT/R2AT/R12	12	3/4	19.0	16	1 5/16-12	42.6	36	0.78
C12412510-1616	D-1616-MJIC	R1AT/R2AT/R12	16	1	25.4	16	1 5/16-12	43.4	36	0.94
C12412510-1620	D-1620-MJIC	R1AT/R2AT/R12	16	1	25.4	20	1 5/8-12	46.9	46	1.21
C12412510-2020	D-2020-MJIC	R1AT/R2AT/R12	20	1 1/4	31.8	20	1 5/8-12	48.5	46	1.39
C12412510-2024	D-2024-MJIC	R1AT/R2AT/R12	20	1 1/4	31.8	24	1 7/8-12	53.0	50	1.63
C12412510-2424	D-2424-MJIC	R1AT/R2AT/R12	24	1 1/2	38.1	24	1 7/8-12	52.5	50	1.85
C12412510-3232	D-3232-MJIC	R1AT/R2AT/R12	32	2	50.8	32	2 1/2-12	60.0	60	3.13

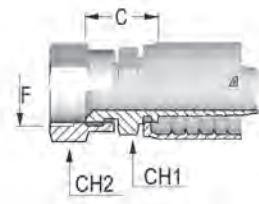


JIC Female Swivel 37° Seat

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12426511-0606	D-0606-FJDH	R12	06	3/8	9.5	06	9/16-18	21.3	17	19	0.21
C12426511-0608	D-0608-FJDH	R12	06	3/8	9.5	08	3/4-16	24.8	19	25	0.28
C12426511-0806	D-0806-FJDH	R12	08	1/2	12.7	06	9/16-18	23.1	19	19	0.34
C12426511-0808	D-0808-FJDH	R12	08	1/2	12.7	08	3/4-16	25.6	19	25	0.29
C12426511-0810	D-0810-FJDH	R12	08	1/2	12.7	10	7/8-14	26.6	22	27	0.36
C12426511-0812	D-0812-FJDH	R12	08	1/2	12.7	12	1 1/16-12	28.1	25	32	0.44
C12426511-1010	D-1010-FJDH	R1AT/R2AT/R12	10	5/8	15.9	10	7/8-14	27.6	24	27	0.45
C12426511-1210	D-1210-FJDH	R1AT/R2AT/R12	12	3/4	19.0	10	7/8-14	29.1	27	27	0.55

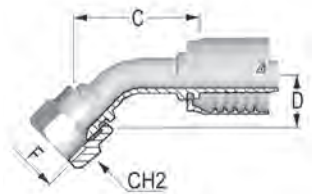
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Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



JIC Female Swivel 37° Seat Continued

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12426511-1212	D-1212-FJDH	R1AT/R2AT/R12	12	3/4	19.0	12	1 1/16-12	28.6	27	32	0.59
C12426511-1214	D-1214-FJDH	R1AT/R2AT/R12	12	3/4	19.0	14	1 3/16-12	26.8	27	22	0.68
C12426511-1216	D-1216-FJDH	R1AT/R2AT/R12	12	3/4	19.0	16	1 5/16-12	32.1	32	38	0.73
C12426511-1612	D-1612-FJDH	R1AT/R2AT/R12	16	1	25.4	12	1 1/16-12	31.4	32	32	0.98
C12426511-1616	D-1616-FJDH	R1AT/R2AT/R12	16	1	25.4	16	1 5/16-12	32.9	32	38	1.06
C12426512-2020	D-2020-FJDH	R1AT/R2AT/R12	20	1 1/4	31.8	20	1 5/8-12	39.1	41	50	1.45
C12426512-2424	D-2424-FJDH	R1AT/R2AT/R12	24	1 1/2	38.1	24	1 7/8-12	43.4	50	55	2.45
C12426512-3232	D-3232-FJDH	R1AT/R2AT/R12	32	2	50.8	32	2 1/2-12	49.0	65	70	3.24

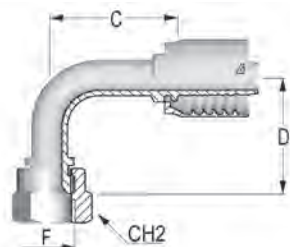


45° JIC Female Swivel 37° Seat Solid One-Piece

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12422541-0606M	D-0606-FJ45	R12	06	3/8	9.5	06	9/16-18	46.3	11.0	19	0.24
C12422541-0608M	D-0608-FJ45	R12	06	3/8	9.5	08	3/4-16	47.2	15.0	25	0.30
C12422541-0808M	D-0808-FJ45	R12	08	1/2	12.7	08	3/4-16	51.6	15.0	25	0.37
C12422541-0810M	D-0810-FJ45	R12	08	1/2	12.7	10	7/8-14	50.7	16.0	27	0.40
C12422541-0812M	D-0812-FJ45	R12	08	1/2	12.7	12	1 1/16-12	57.0	21.0	32	0.53
C12422541-1010M	D-1010-FJ45	R1AT/R2AT/R12	10	5/8	15.9	10	7/8-14	62.2	19.0	27	0.57
C12422541-1012M	D-1012-FJ45	R1AT/R2AT/R12	10	5/8	15.9	12	1 1/16-12	68.6	21.0	32	0.56
C12422541-1212M	D-1212-FJ45	R1AT/R2AT/R12	12	3/4	19.0	12	1 1/16-12	67.5	21.0	32	0.86
C12422541-1214M	D-1214-FJ45	R1AT/R2AT/R12	12	3/4	19.0	14	1 3/16-12	61.0	22.5	36	0.75
C12422541-1216M	D-1216-FJ45	R1AT/R2AT/R12	12	3/4	19.0	16	1 5/16-12	71.4	26.0	38	0.86
C12422541-1616M	D-1616-FJ45	R1AT/R2AT/R12	16	1	25.4	16	1 5/16-12	79.4	24.0	38	1.31
C12422542-1620M	D-1620-FJ45	R1AT/R2AT/R12	16	1	25.4	20	1 5/8-12	83.8	37.0	50	1.71
C12422542-2020M	D-2020-FJ45	R1AT/R2AT/R12	20	1 1/4	31.8	20	1 5/8-12	97.1	37.0	50	2.06
C12422542-2024M	D-2024-FJ45	R1AT/R2AT/R12	20	1 1/4	31.8	24	1 7/8-12	107.0	42.0	55	2.24
C12422542-2424M	D-2424-FJ45	R1AT/R2AT/R12	24	1 1/2	38.1	24	1 7/8-12	112.7	43.0	55	2.67
C12422542-3232M	D-3232-FJ45	R1AT/R2AT/R12	32	2	50.8	32	2 1/2-12	159.9	67.0	70	3.48

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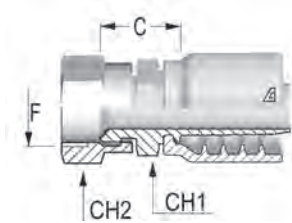
AlfaCrimp One-Piece Fittings - C124



90° JIC Female Swivel 37° Seat — Solid One-Piece

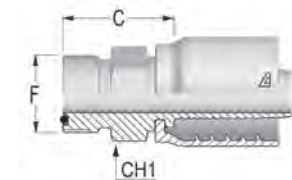
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12422591-0606S	D-0606-FJ9S	R12	06	3/8	9.5	06	9/16-18	32.5	23.0	19	0.22
C12422591-0606M	D-0606-FJ9M	R12	06	3/8	9.5	06	9/16-18	31.3	35.0	19	0.24
C12422591-0606L	D-0606-FJ9L	R12	06	3/8	9.5	06	9/16-18	43.3	54.0	19	0.28
C12422591-0608S	D-0608-FJ9S	R12	06	3/8	9.5	08	3/4-16	32.5	28.0	25	0.29
C12422591-0608M	D-0608-FJ9M	R12	06	3/8	9.5	08	3/4-16	39.5	41.0	25	0.31
C12422591-0608L	D-0608-FJ9L	R12	06	3/8	9.5	08	3/4-16	46.8	64.0	25	0.34
C12422591-0808S	D-0808-FJ9S	R12	08	1/2	12.7	08	3/4-16	37.0	29.0	25	0.39
C12422591-0808M	D-0808-FJ9M	R12	08	1/2	12.7	08	3/4-16	37.2	40.0	25	0.40
C12422591-0808L	D-0808-FJ9L	R12	08	1/2	12.7	08	3/4-16	49.9	64.0	25	0.45
C12422591-0810S	D-0810-FJ9S	R12	08	1/2	12.7	10	7/8-14	38.0	32.0	27	0.41
C12422591-0810M	D-0810-FJ9M	R12	08	1/2	12.7	10	7/8-14	43.3	47.0	27	0.44
C12422591-0810L	D-0810-FJ9L	R12	08	1/2	12.7	10	7/8-14	37.3	65.0	27	0.46
C12422591-0812S	D-0812-FJ9S	R12	08	1/2	12.7	12	1 1/16-12	37.3	46.0	32	0.52
C12422591-0812M	D-0812-FJ9M	R12	08	1/2	12.7	12	1 1/16-12	42.8	58.0	32	0.49
C12422591-0812L	D-0812-FJ9L	R12	08	1/2	12.7	12	1 1/16-12	38.5	62.0	41	0.48
C12422591-1010S	D-1010-FJ9S	R1AT/R2AT/R12	10	5/8	15.9	10	7/8-14	49.0	32.0	27	0.59
C12422591-1010M	D-1010-FJ9M	R1AT/R2AT/R12	10	5/8	15.9	10	7/8-14	49.4	48.0	27	0.58
C12422591-1010L	D-1010-FJ9L	R1AT/R2AT/R12	10	5/8	15.9	10	7/8-14	49.9	65.0	27	0.62
C12422591-1012S	D-1012-FJ9S	R1AT/R2AT/R12	10	5/8	15.9	12	1 1/16-12	48.0	48.0	32	0.64
C12422591-1012M	D-1012-FJ9M	R1AT/R2AT/R12	10	5/8	15.9	12	1 1/16-12	47.9	58.0	32	0.66
C12422591-1012L	D-1012-FJ9L	R1AT/R2AT/R12	10	5/8	15.9	12	1 1/16-12	48.0	96.0	32	0.76
C12422591-1212S	D-1212-FJ9S	R1AT/R2AT/R12	12	3/4	19.0	12	1 1/16-12	58.2	46.0	32	0.86
C12422591-1212M	D-1212-FJ9M	R1AT/R2AT/R12	12	3/4	19.0	12	1 1/16-12	52.4	54.0	32	0.91
C12422591-1212L	D-1212-FJ9L	R1AT/R2AT/R12	12	3/4	19.0	12	1 1/16-12	54.1	95.0	32	1.00
C12422591-1214M	D-1214-FJ9M	R1AT/R2AT/R12	12	3/4	19.0	14	1 3/16-12	52.6	56.0	36	0.95
C12422591-1216S	D-1216-FJ9S	R1AT/R2AT/R12	12	3/4	19.0	16	1 1/16-12	53.6	53.0	38	0.96
C12422591-1216M	D-1216-FJ9M	R1AT/R2AT/R12	12	3/4	19.0	16	1 5/16-12	52.6	72.0	38	1.03
C12422591-1216L	D-1216-FJ9L	R1AT/R2AT/R12	12	3/4	19.0	16	1 5/16-12	54.0	114.0	38	1.16
C12422591-1616S	D-1616-FJ9S	R1AT/R2AT/R12	16	1	25.4	16	1 5/16-12	74.0	56.0	38	1.32
C12422591-1616M	D-1616-FJ9M	R1AT/R2AT/R12	16	1	25.4	16	1 5/16-12	72.6	71.5	38	1.45
C12422591-1616L	D-1616-FJ9L	R1AT/R2AT/R12	16	1	25.4	16	1 5/16-12	78.6	114.0	38	1.76
C12422592-1620M	D-1620-FJ9M	R1AT/R2AT/R12	16	1	25.4	20	1 5/8-12	72.6	78.0	50	1.91
C12422592-2020M	D-2020-FJ9M	R1AT/R2AT/R12	20	1 1/4	31.8	20	1 5/8-12	82.4	78.0	50	2.32
C12422592-2024M	D-2024-FJ9M	R1AT/R2AT/R12	20	1 1/4	31.8	24	1 7/8-12	87.3	82.0	55	2.64
C12422592-2424M	D-2424-FJ9M	R1AT/R2AT/R12	24	1 1/2	38.1	24	1 7/8-12	95.3	92.0	55	2.67
C12422592-3232M	D-3232-FJ9M	1AT/R2AT/R12	32	2	50.8	32	2 1/2-12	129.5	140.0	70	3.48

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SAE Female Swivel 45° Seat

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12426611-1212	D-1212-FSAE	R1AT/R2AT/R12	12	3/4	19.0	12	1 1/16-14	29.6	32	27	0.59

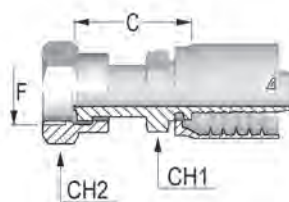


ORFS Solid Male

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12412410-0606	D-0606-MOFS	R12	06	3/8	9.5	06	11/16-16	24.3	19	0.20
C12412410-0608	D-0608-MOFS	R12	06	3/8	9.5	08	13/16-16	26.3	22	0.22
C12412410-0808	D-0808-MOFS	R12	08	1/2	12.7	08	13/16-16	27.1	22	0.30
C12412410-0810	D-0810-MOFS	R12	08	1/2	12.7	10	1-14	30.6	27	0.36
C12412410-0812	D-0812-MOFS	R12	08	1/2	12.7	12	1 3/16-12	37.1	32	0.38
C12412410-1010	D-1010-MOFS	R1AT/R2AT/R12	10	5/8	15.9	10	1-14	30.6	27	0.41
C12412410-1012	D-1012-MOFS	R1AT/R2AT/R12	10	5/8	15.9	12	1 3/16-12	32.1	32	0.48
C12412410-1210	D-1210-MOFS	R1AT/R2AT/R12	12	3/4	19.0	10	1-14	31.1	32	0.51
C12412410-1212	D-1212-MOFS	R1AT/R2AT/R12	12	3/4	19.0	12	1 3/16-12	34.6	32	0.63
C12412410-1216	D-1216-MOFS	R1AT/R2AT/R12	12	3/4	19.0	16	1 7/16-12	38.1	41	0.81
C12412410-1616	D-1616-MOFS	R1AT/R2AT/R12	16	1	25.4	16	1 7/16-12	37.9	38	1.04
C12412410-1620	D-1620-MOFS	R1AT/R2AT/R12	16	1	25.4	20	1 11/16-12	39.9	46	1.21
C12412410-2020	D-2020-MOFS	R1AT/R2AT/R12	20	1 1/4	31.8	20	1 11/16-12	41.5	46	1.54

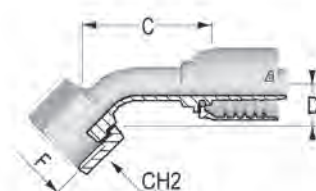
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AlfaCrimp One-Piece Fittings - C124



ORFS Female

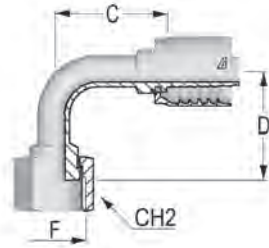
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12422411-0606	D-0606-F0FS	R12	06	3/8	9.5	06	11/16-16	30.3	17	22	0.25
C12422411-0608	D-0608-F0FS	R12	06	3/8	9.5	08	13/16-16	35.3	22	24	0.32
C12422411-0808	D-0808-F0FS	R12	08	1/2	12.7	08	13/16-16	36.1	22	24	0.36
C12422411-0810	D-0810-F0FS	R12	08	1/2	12.7	10	1-14	39.6	24	30	0.46
C12422411-1010	D-1010-F0FS	R1AT/R2AT/R12	10	5/8	15.9	10	1-14	39.6	24	30	0.50
C12422411-1012	D-1012-F0FS	R1AT/R2AT/R12	10	5/8	15.9	12	1 3/16-12	42.1	30	36	0.68
C12422411-1212	D-1212-F0FS	R1AT/R2AT/R12	12	3/4	19.0	12	1 3/16-12	42.6	30	36	0.74
C12422411-1216	D-1216-F0FS	R1AT/R2AT/R12	12	3/4	19.0	16	1 7/16-12	48.6	36	41	0.96
C12422411-1616	D-1616-F0FS	R1AT/R2AT/R12	16	1	25.4	16	1 7/16-12	49.4	36	41	1.16
C12422411-2020	D-2020-F0FS	R1AT/R2AT/R12	20	1 1/4	31.8	20	1 11/16-12	52.0	41	50	1.60
C12422411-2424	D-2424-F0FS	R1AT/R2AT/R12	24	1 1/2	38.1	24	2-12	56.5	50	60	2.45



45° ORFS Female Solid One-Piece

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12422443-0606M	D-0606-F045	R12	06	3/8	9.5	06	11/16-16	47.4	12.0	22	0.25
C12422443-0608M	D-0608-F045	R12	06	3/8	9.5	08	13/16-16	51.2	15.0	24	0.30
C12422441-0808M	D-0808-F045	R12	08	1/2	12.7	08	13/16-16	47.1	16.0	24	0.43
C12422443-0810M	D-0810-F045	R12	08	1/2	12.7	10	1-14	50.4	16.5	30	0.43
C12422443-1010M	D-1010-F045	R1AT/R2AT/R12	10	5/8	15.9	10	1-14	57.7	17.0	30	0.51
C12422443-1212M	D-1212-F045	R1AT/R2AT/R12	12	3/4	19.0	12	1 3/16-12	63.5	21.0	36	0.83
C12422443-1216M	D-1216-F045	R1AT/R2AT/R12	12	3/4	19.0	16	1 7/16-12	70.7	24.0	41	1.25
C12422443-1616M	D-1616-F045	R1AT/R2AT/R12	16	1	25.4	16	1 7/16-12	82.4	26.0	41	1.34
C12422443-2020M	D-2020-F045	R1AT/R2AT/R12	20	1 1/4	31.8	20	1 11/16-12	97.4	26.0	50	1.75
C12422443-2424M	D-2424-F045	R1AT/R2AT/R12	24	1 1/2	38.1	24	2-12	104.4	28.0	60	2.56

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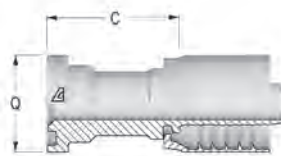


90° ORFS Female Solid One-Piece — ISO 12151-1

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12422493-0606S	D-0606-F09S	R12	06	3/8	9.5	06	11/16-16	41.8	25.0	22	0.24
C12422493-0606M	D-0606-F09M	R12	06	3/8	9.5	06	11/16-16	41.8	38.0	22	0.25
C12422493-0606L	D-0606-F09L	R12	06	3/8	9.5	06	11/16-16	32.0	54.0	22	0.29
C12422493-0608S	D-0608-F09S	R12	06	3/8	9.5	08	13/16-16	35.0	29.0	24	0.28
C12422493-0608M	D-0608-F09M	R12	06	3/8	9.5	08	13/16-16	43.8	41.0	24	0.31
C12422493-0608L	D-0608-F09L	R12	06	3/8	9.5	08	13/16-16	35.0	64.0	24	0.34
C12422491-0808S	D-0808-F09S	R12	08	1/2	12.7	08	13/16-16	39.8	29.0	24	0.37
C12422491-0808M	D-0808-F09M	R12	08	1/2	12.7	08	13/16-16	34.8	42.0	24	0.38
C12422491-0808L	D-0808-F09L	R12	08	1/2	12.7	08	13/16-16	38.0	64.0	24	0.40
C12422493-0810S	D-0810-F09S	R12	08	1/2	12.7	10	1-14	46.3	32.5	30	0.45
C12422493-0810M	D-0810-F09M	R12	08	1/2	12.7	10	1-14	48.3	47.0	30	0.49
C12422493-0810L	D-0810-F09L	R12	08	1/2	12.7	10	1-14	37.0	70.0	30	0.53
C12422493-1010M	D-1010-F09M	R1AT/R2AT/R12	10	5/8	15.9	10	1-14	55.4	44.0	30	0.60
C12422493-1010L	D-1010-F09L	R1AT/R2AT/R12	10	5/8	15.9	10	1-14	48.0	70.0	30	0.66
C12422493-1212S	D-1212-F09S	R1AT/R2AT/R12	12	3/4	19.0	12	1 3/16-12	60.6	51.0	36	0.90
C12422493-1212M	D-1212-F09M	R1AT/R2AT/R12	12	3/4	19.0	12	1 3/16-12	61.6	58.0	36	0.93
C12422493-1212L	D-1212-F09L	R1AT/R2AT/R12	12	3/4	19.0	12	1 3/16-12	50.0	96.0	36	1.03
C12422493-1216S	D-1216-F09S	R1AT/R2AT/R12	12	3/4	19.0	16	1 7/16-12	50.0	56.0	41	1.08
C12422493-1216M	D-1216-F09M	R1AT/R2AT/R12	12	3/4	19.0	16	1 7/16-12	65.6	71.0	41	1.08
C12422493-1216L	D-1216-F09L	R1AT/R2AT/R12	12	3/4	19.0	16	1 7/16-12	50.0	114.0	41	1.65
C12422493-1616S	D-1616-F09S	R1AT/R2AT/R12	16	1	25.4	16	1 7/16-12	80.0	58.0	41	1.46
C12422493-1616M	D-1616-F09M	R1AT/R2AT/R12	16	1	25.4	16	1 7/16-12	82.6	66.0	41	1.51
C12422493-1616L	D-1616-F09L	1AT/R2AT/R12	16	1	25.4	16	1 7/16-12	70.5	114.0	41	1.71
C12422493-2020S	D-2020-F09S	R1AT/R2AT/R12	20	1 1/4	31.8	20	1 11/16-12	95.0	68.0	50	2.21
C12422493-2020M	D-2020-F09M	R1AT/R2AT/R12	20	1 1/4	31.8	20	1 11/16-12	97.0	78.0	50	2.28
C12422493-2020L	D-2020-F09L	R1AT/R2AT/R12	20	1 1/2	31.8	20	1 11/16-12	91.0	129.0	50	2.59
C12422493-2424S	D-2424-F09S	R1AT/R2AT/R12	24	1 1/2	38.1	24	2-12	103.0	69.0	60	3.03
C12422493-2424M	D-2424-F09M	R1AT/R2AT/R12	24	1 1/2	38.1	24	2-12	107.8	87.0	60	3.14
C12422493-2424L	D-2424-F09L	R1AT/R2AT/R12	24	1 1/2	38.1	24	2-12	103.0	141.0	60	3.59

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

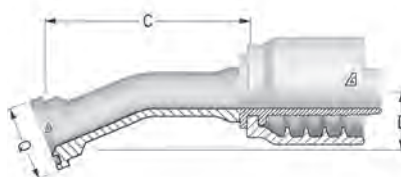
AlfaCrimp One-Piece Fittings - C124



For Split Flange Clamps
please refer to page 236.

O-Ring Flange SAE J518 Code 61 Straight

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	Max. Working Pres. (psi)	Weight Each (lbs.)
				(in.)	(mm)	(in.)	(mm)			
C12443310-0808	D-0808-C61S	R12	08	1/2	12.7	1.19	30.2	41.0	5000	0.39
C12443310-0812	D-0812-C61S	R12	08	1/2	12.7	1.50	38.1	42.0	5000	0.49
C12443310-1212	D-1212-C61S	R1AT/R2AT/R12	12	3/4	19.0	1.50	38.1	42.5	5000	0.66
C12443310-1216	D-1216-C61S	R1AT/R2AT/R12	12	3/4	19.0	1.75	44.5	50.5	5000	0.80
C12443310-1616	D-1616-C61S	R1AT/R2AT/R12	16	1	25.4	1.75	44.5	51.4	5000	1.18
C12443310-1620	D-1620-C61S	R1AT/R2AT/R12	16	1	25.4	2.00	50.8	53.9	4000	1.21
C12443310-2020	D-2020-C61S	R1AT/R2AT/R12	20	1 1/4	31.8	2.00	50.8	55.5	4000	1.43
C12443310-2024	D-2024-C61S	R1AT/R2AT/R12	20	1 1/4	31.8	2.38	60.3	58.5	3000	1.61
C12443310-2424	D-2424-C61S	R1AT/R2AT/R12	24	1 1/2	38.1	2.38	60.3	58.5	3000	2.56
C12443310-2432	D-2432-C61S	R1AT/R2AT/R12	24	1 1/2	38.1	2.81	71.4	70.0	3000	3.10
C12443310-3232	D-3232-C61S	R1AT/R2AT/R12	32	2	50.8	2.81	71.4	70.0	3000	4.41

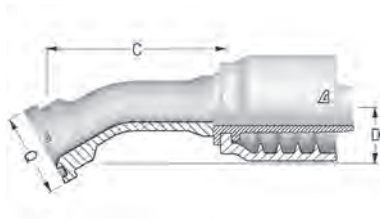


For Split Flange Clamps
please refer to page 236.

22° O-Ring Flange SAE J518 Code 61 Solid One-Piece

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max. Working Pres. (psi)	Weight Each (lbs.)
				(in.)	(mm)	(in.)	(mm)				
C12443320-1616	D-1616-C612	R1AT/R2AT/R12	16	1	25.4	1.75	44.5	86.5	12.0	5000	1.45
C12443320-2020	D-2020-C612	R1AT/R2AT/R12	20	1 1/4	31.8	2.00	50.8	114.0	13.0	4000	1.93
C12443320-2024	D-2024-C612	R1AT/R2AT/R12	20	1 1/4	31.8	2.38	60.3	114.0	16.0	3000	2.18
C12443320-2424	D-2424-C612	R1AT/R2AT/R12	24	1 1/2	38.1	2.38	60.3	133.5	16.5	3000	2.63

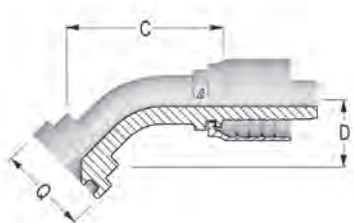
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



For Split Flange Clamps
please refer to page 236.

30° O-Ring Flange SAE J518 Code 61 Solid One-Piece

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max. Working Pres. (psi)	Weight Each (lbs.)
				(in.)	(mm)	(in.)	(mm)				
C12443330-1212	D-1212-C613	R1AT/R2AT/R12	12	3/4	19.0	1.50	38.1	77.5	19	5000	0.84
C12443330-1216	D-1216-C613	R1AT/R2AT/R12	12	3/4	19.0	1.75	44.5	114.0	13	5000	0.97
C12443330-1616	D-1616-C613	R1AT/R2AT/R12	16	1	25.4	1.75	44.5	90.0	20	5000	1.27
C12443330-1620	D-1620-C613	R1AT/R2AT/R12	16	1	25.4	2.00	50.8	89.0	22	4000	1.36
C12443330-2020	D-2020-C613	R1AT/R2AT/R12	20	1 1/4	25.4	2.00	50.8	89.0	22	4000	1.74
C12443330-2024	D-2024-C613	R1AT/R2AT/R12	20	1 1/4	31.8	2.38	60.3	104.0	19	3000	1.85
C12443330-2432	D-2432-C613	R1AT/R2AT/R12	24	1 1/2	38.1	2.81	71.4	145.0	35	3000	3.38



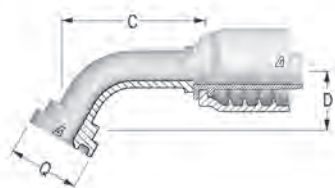
For Split Flange Clamps
please refer to page 236.

45° O-Ring Flange SAE J518 Code 61 Solid One-Piece

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max. Working Pres. (psi)	Weight Each (lbs.)
				(in.)	(mm)	(in.)	(mm)				
C12443340-0808	D-0808-C614	R12	08	1/2	12.7	1.19	30.2	43.7	22.0	5000	0.40
C12443340-0812	D-0812-C614	R12	08	1/2	12.7	1.50	38.1	50.4	26.0	5000	0.51
C12443340-1212	D-1212-C614	R1AT/R2AT/R12	12	3/4	19.0	1.50	38.1	63.8	32.0	5000	0.73
C12443340-1216	D-1216-C614	R1AT/R2AT/R12	12	3/4	19.0	1.75	44.5	68.0	29.0	5000	0.83
C12443340-1616	D-1616-C614	R1AT/R2AT/R12	16	1	25.4	1.75	44.5	72.8	33.5	5000	1.28
C12443340-1620	D-1620-C614	R1AT/R2AT/R12	16	1	25.4	2.00	50.8	97.0	36.0	4000	1.36
C12443340-2020	D-2020-C614	R1AT/R2AT/R12	20	1 1/4	31.8	2.00	50.8	85.2	37.5	4000	1.63
C12443340-2024	D-2024-C614	R1AT/R2AT/R12	20	1 1/4	31.8	2.38	60.3	92.8	40.0	3000	1.77
C12443340-2424	D-2424-C614	R1AT/R2AT/R12	24	1 1/2	38.1	2.38	60.3	105.4	48.0	3000	2.56
C12443340-2432	D-2432-C614	R1AT/R2AT/R12	24	1 1/2	38.1	2.81	71.4	124.3	55.5	3000	3.10
C12443340-3232	D-3232-C614	R1AT/R2AT/R12	32	2	50.8	2.81	71.4	129.5	47.5	3000	4.41

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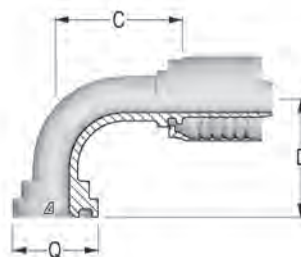
AlfaCrimp One-Piece Fittings - C124



For Split Flange Clamps
please refer to page 236.

60° O-Ring Flange SAE J518 Code 61 Solid One-Piece

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max. Working Pres. (psi)	Weight Each (lbs.)
				(in.)	(mm)	(in.)	(mm)				
C12443360-1212	D-1212-C616	R1AT/R2AT/R12	12	3/4	19.0	1.50	38.1	86.0	37.0	5000	0.80
C12443360-1216	D-1216-C616	R1AT/R2AT/R12	12	3/4	19.0	1.75	44.5	95.0	43.0	5000	1.10
C12443360-1616	D-1616-C616	R1AT/R2AT/R12	16	1	25.4	1.75	44.5	101.0	47.0	5000	1.47
C12443360-1620	D-1620-C616	R1AT/R2AT/R12	16	1	25.4	2.00	50.8	105.5	43.5	4000	1.58
C12443360-2020	D-2020-C616	R1AT/R2AT/R12	20	1 1/4	31.8	2.00	50.8	129.5	56.5	4000	2.18
C12443360-2424	D-2424-C616	R1AT/R2AT/R12	24	1 1/2	38.1	2.38	60.3	138.0	66.0	3000	2.95
C12443360-3232	D-3232-C616	R1AT/R2AT/R12	32	2	50.8	2.81	71.4	155.0	92.0	3000	5.90

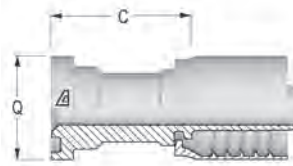


For Split Flange Clamps
please refer to page 236.

90° O-Ring Flange SAE J518 Code 61 Solid One-Piece

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max. Working Pres. (psi)	Weight Each (lbs.)
				(in.)	(mm)	(in.)	(mm)				
C12443390-0808	D-0808-C619	R12	08	1/2	12.7	1.19	30.2	45.8	42.0	5000	0.56
C12443390-0812	D-0812-C619	R12	08	1/2	12.7	1.50	38.1	45.3	51.0	5000	0.78
C12443390-1212	D-1212-C619	R1AT/R2AT/R12	12	3/4	19.0	1.50	38.1	59.7	58.0	5000	0.95
C12443390-1216	D-1216-C619	R1AT/R2AT/R12	12	3/4	19.0	1.75	44.5	66.2	64.5	5000	0.95
C12443390-1616	D-1616-C619	R1AT/R2AT/R12	16	1	25.4	1.75	44.5	70.6	67.0	5000	1.31
C12443390-1620	D-1620-C619	R1AT/R2AT/R12	16	1	25.4	2.00	50.8	73.6	71.0	4000	1.45
C12443390-2020	D-2020-C619	R1AT/R2AT/R12	20	1 1/4	31.8	2.00	50.8	88.0	84.0	4000	1.80
C12443390-2024	D-2024-C619	R1AT/R2AT/R12	20	1 1/4	31.8	2.38	60.3	91.5	87.5	3000	1.98
C12443390-2424	D-2424-C619	R1AT/R2AT/R12	24	1 1/2	38.1	2.38	60.3	104.8	91.0	3000	2.73
C12443390-2432	D-2432-C619	R1AT/R2AT/R12	24	1 1/2	38.1	2.81	71.4	104.8	115.0	3000	3.04
C12443390-3232	D-3232-C619	R1AT/R2AT/R12	32	2	50.8	2.81	71.4	129.3	130.0	3000	5.23

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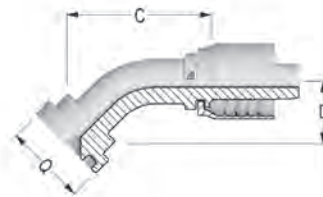


For Split Flange Clamps
please refer to page 237.

Flange 6000 PSI SAE J518 Code 62*

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	Max WP (psi)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)			
C12443610-1616	D-1616-C62S	16	1	25.4	1	47.6	56.4	6000	1.27
C12443610-1620	D-1620-C62S								1.35
C12443610-2020	D-2020-C62S	20	1 1/4	31.8	1 1/4	54.0	83.0	6000	2.01
C12443610-2424	D-2424-C62S	24	1 1/2	38.1	1 1/2	63.5	101.0	6000	2.77
C12443610-2432	D-2432-C62S	24	1 1/2	38.1	2	63.5	71.0	6000	3.35
C12443610-3232	D-3232-C62S	32	2	50.8	2	79.4	76.0	6000	4.76

* For use with these hoses: R1AT/R2AT/R12.



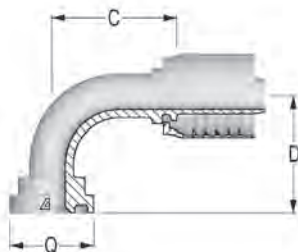
For Split Flange Clamps
please refer to page 237.

45° Flange 6000 PSI SAE J518 Code 62 Solid One-Piece*

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max WP (psi)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
C12443640-2424	D-2424-C624	24	1 1/2	38.1	1 1/2	63.5	101.7	45	6000	2.76
C12443640-2432	D-2432-C624	24	2	38.1	2	63.5	115.0	46	6000	3.34
C12443640-3232	D-3232-C624	32	2	50.8	2	79.4	129.7	60	6000	4.76

* For use with these hoses: R1AT/R2AT/R12.

AlfaCrimp One-Piece Fittings - C124

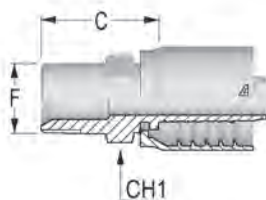


For Split Flange Clamps
please refer to page 237.

90° Flange 6000 PSI SAE J518 Code 62 Solid One-Piece*

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max WP (psi)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
C12443690-1616	D-1616-C629	16	1	25.4	1	47.6	73.6	75	6000	1.42
C12443690-2020	D-2020-C629	20	1 1/4	31.8	1 1/4	54.0	94.5	89	6000	2.36
C12443690-2424	D-2424-C629	24	1 1/2	38.1	1 1/2	63.5	99.6	105	6000	2.95
C12443690-2432	D-2432-C629	24	1 1/2	38.1	2	63.5	99.0	102	6000	3.28
C12443690-3232	D-3232-C629	32	2	50.8	2	79.4	143.3	132	6000	5.65

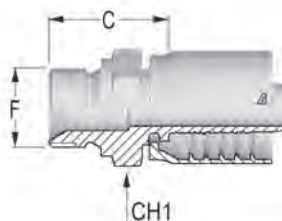
* For use with these hoses: R1AT/R2AT/R12.



BSP/JIS Solid Male Tapered

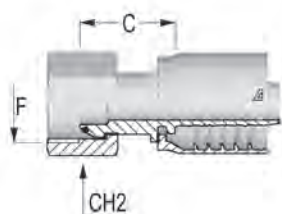
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12410710-0606	D-0606-MBPT	R12	06	3/8	9.5	06	3/8-19	27.8	19	0.20
C12410710-0608	D-0608-MBPT	R12	06	3/8	9.5	08	1/2-14	32.3	22	0.26
C12410710-0808	D-0808-MBPT	R12	08	1/2	12.7	08	1/2-14	33.1	22	0.30
C12410710-1012	D-1012-MBPT	R1AT/R2AT/R12	10	5/8	15.9	12	3/4-14	34.1	27	0.44
C12410710-1212	D-1212-MBPT	R1AT/R2AT/R12	12	3/4	19.0	12	3/4-14	34.6	27	0.50
C12410710-1216	D-1216-MBPT	R1AT/R2AT/R12	12	3/4	19.0	16	1-11	43.6	36	0.66
C12410710-1616	D-1616-MBPT	R1AT/R2AT/R12	16	1	25.4	16	1-11	44.4	36	0.96
C12410710-2020	D-2020-MBPT	R1AT/R2AT/R12	20	1 1/4	31.8	20	1 1/4-11	49.0	46	1.40
C12410710-2424	D-2424-MBPT	R1AT/R2AT/R12	24	1 1/2	31.8	24	1 1/2-11	50.5	50	1.92
C12410710-3232	D-3232-MBPT	R1AT/R2AT/R12	32	2	50.8	32	2-11	54.2	65	2.78

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



BSP Solid Male Parallel 60° Seat

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12410510-0606	D-0606-MBPP	R12	06	3/8	9.5	06	3/8-19	27.8	22	0.22
C12410510-0608	D-0608-MBPP	R12	06	3/8	9.5	08	1/2-14	31.3	27	0.29
C12410510-0806	D-0806-MBPP	R12	08	1/2	12.7	06	3/8-19	28.6	22	0.27
C12410510-0808	D-0808-MBPP	R12	08	1/2	12.7	08	1/2-14	32.1	27	0.34
C12410510-0810	D-0810-MBPP	R12	08	1/2	12.7	10	5/8-14	36.1	30	0.40
C12410510-0812	D-0812-MBPP	R12	08	1/2	12.7	12	3/4-14	34.1	32	0.41
C12410510-1010	D-1010-MBPP	R1AT/R2AT/R12	10	5/8	15.9	10	5/8-14	36.1	30	0.44
C12410510-1012	D-1012-MBPP	R1AT/R2AT/R12	10	5/8	15.9	12	3/4-14	34.1	32	0.47
C12410510-1212	D-1212-MBPP	R1AT/R2AT/R12	12	3/4	19.0	12	3/4-14	34.6	32	0.55
C12410510-1216	D-1216-MBPP	R1AT/R2AT/R12	12	3/4	19.0	16	1-11	39.6	41	0.77
C12410510-1616	D-1616-MBPP	R1AT/R2AT/R12	16	1	25.4	16	1-11	40.4	41	1.01
C12410510-1620	D-1620-MBPP	R1AT/R2AT/R12	16	1	25.4	20	1 1/4-11	42.4	50	1.25
C12410510-2020	D-2020-MBPP	R1AT/R2AT/R12	20	1 1/4	31.8	20	1 1/4-11	48.0	50	1.48
C12410510-2424	D-2424-MBPP	R1AT/R2AT/R12	24	1 1/2	38.1	24	1 1/2-11	49.0	55	2.03
C12410510-3232	D-3232-MBPP	R1AT/R2AT/R12	32	2	50.8	32	2-11	53.5	70	3.02



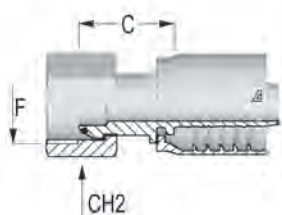
BSP O-Ring Female Swivel 60° Cone

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12420813-0606	D-0606-FBPO	R12	06	3/8	9.5	06	3/8-19	17.0	22	0.21
C12420813-0608	D-0608-FBPO	R12	06	3/8	9.5	08	1/2-14	17.0	27	0.26
C12420813-0808	D-0808-FBPO	R12	08	1/2	12.7	08	1/2-14	18.0	27	0.30
C12420813-0810	D-0810-FBPO	R12	08	1/2	12.7	10	5/8-14	28.4	27	0.35
C12420813-0812	D-0812-FBPO	R12	08	1/2	12.7	12	3/4-14	22.0	32	0.36
C12420811-1010	D-1010-FBPO	R1AT/R2AT/R12	10	5/8	15.9	10	5/8-14	17.1	27	0.34
C12420813-1012	D-1012-FBPO	R1AT/R2AT/R12	10	5/8	15.9	12	3/4-14	20.0	32	0.43
C12420811-1212	D-1212-FBPO	R1AT/R2AT/R12	12	3/4	19.0	12	3/4-14	20.6	32	0.50
C12420813-1216	D-1216-FBPO	R1AT/R2AT/R12	12	3/4	19.0	16	1-11	34.0	38	0.65

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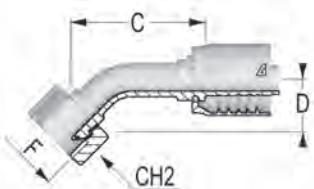
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

AlfaCrimp One-Piece Fittings - C124



BSP O-Ring Female Swivel 60° Cone Continued

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12420811-1616	D-1616-FBPO	R1AT/R2AT/R12	16	1	25.4	16	1-11	23.9	38	0.87
C12420813-1620	D-1620-FBPO	R1AT/R2AT/R12	16	1	25.4	20	1 1/4-11	39.4	50	1.33
C12420812-2020	D-2020-FBPO	R1AT/R2AT/R12	20	1 1/4	31.8	20	1 1/4-11	32.0	50	1.48
C12420813-2024	D-2024-FBPO	R1AT/R2AT/R12	20	1 1/4	31.8	24	1 1/2-11	41.9	55	1.82
C12420812-2424	D-2424-FBPO	R1AT/R2AT/R12	24	1 1/2	38.1	24	1 1/2-11	33.8	55	3.05
C12420813-2432	D-2432-FBPO	R1AT/R2AT/R12	24	1 1/2	38.1	32	2-11	36.0	70	2.83
C12420812-3232	D-3232-FBPO	R1AT/R2AT/R12	32	2	50.8	32	2-11	34.0	70	3.13

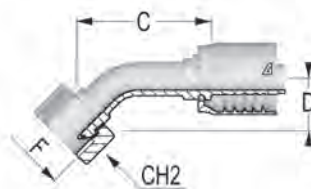


45° BSP O-Ring Female Swivel 60° Cone Solid One-Piece

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12420843-0606	D-0606-FB04	R12	06	3/8	9.5	06	3/8-19	49.9	20.5	22	0.26
C12420843-0608	D-0608-FB04	R12	06	3/8	9.5	08	1/2-14	45.7	21.0	27	0.26
C12420843-0808	D-0808-FB04	R12	08	1/2	12.7	08	1/2-14	55.0	21.0	27	0.36
C12420843-0810	D-0810-FB04	R12	08	1/2	12.7	10	5/8-14	57.2	23.0	27	0.38
C12420843-0812	D-0812-FB04	R12	08	1/2	12.7	12	3/4-14	56.7	23.0	32	0.40
C12420841-1010	D-1010-FB04	R1AT/R2AT/R12	10	5/8	15.9	10	5/8-14	64.0	21.5	27	0.42
C12420843-1012	D-1012-FB04	R1AT/R2AT/R12	10	5/8	15.9	12	3/4-14	66.5	22.5	32	0.62
C12420841-1212	D-1212-FB04	R1AT/R2AT/R12	12	3/4	19.0	12	3/4-14	67.6	28.0	32	0.68
C12420843-1216	D-1216-FB04	R1AT/R2AT/R12	12	3/4	19.0	16	1-11	74.6	31.5	38	0.86
C12420841-1616	D-1616-FB04	R1AT/R2AT/R12	16	1	25.4	16	1-11	72.5	34.0	38	1.22
C12420843-1620	D-1620-FB04	R1AT/R2AT/R12	16	1	25.4	20	1 1/4-11	89.0	38.0	50	1.42
C12420842-2020	D-2020-FB04	R1AT/R2AT/R12	20	1 1/4	31.8	20	1 1/4-11	100.8	40.0	50	1.82

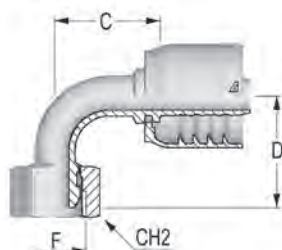
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Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



45° BSP O-Ring Female Swivel 60° Cone Solid One-Piece Continued

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12420843-2024	D-2024-FB04	R1AT/R2AT/R12	20	1 1/4	31.8	24	1 1/2-11	108.0	46	55	2.48
C12420842-2424	D-2424-FB04	R1AT/R2AT/R12	24	1 1/2	38.1	24	1 1/2-11	115.7	46	55	3.50
C12420843-2432	D-2432-FB04	R1AT/R2AT/R12	24	1 1/2	38.1	32	2-11	124.0	51	65	3.71
C12420842-3232	D-3232-FB04	R1AT/R2AT/R12	32	2	50.8	32	2-11	151.5	60	70	4.96



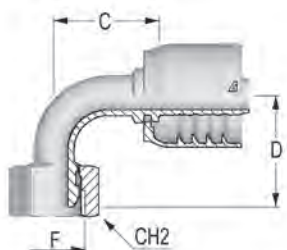
90° BSP O-Ring Female Swivel 60° Cone Solid One-Piece

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12420893-0606	D-0606-FB09	R12	06	3/8	9.5	06	3/8-19	34.8	42.0	22	0.26
C12420893-0608	D-0608-FB09	R12	06	3/8	9.5	08	1/2-14	34.3	35.5	27	0.32
C12420893-0808	D-0808-FB09	R12	08	1/2	12.7	08	1/2-14	35.8	41.0	27	0.38
C12420893-0810	D-0810-FB09	R12	08	1/2	12.7	10	5/8-14	42.5	44.0	27	0.38
C12420893-0812	D-0812-FB09	R12	08	1/2	12.7	12	3/4-14	42.5	43.0	32	0.47
C12420891-1010	D-1010-FB09	R1AT/R2AT/R12	10	5/8	15.9	10	5/8-14	47.9	47.0	27	0.51
C12420893-1012	D-1012-FB09	R1AT/R2AT/R12	10	5/8	15.9	12	3/4-14	51.9	49.0	32	0.60
C12420891-1212	D-1212-FB09	R1AT/R2AT/R12	12	3/4	19.0	12	3/4-14	53.5	53.0	32	0.72
C12420893-1216	D-1216-FB09	R1AT/R2AT/R12	12	3/4	19.0	16	1-11	54.0	61.0	38	0.90
C12420891-1616	D-1616-FB09	R1AT/R2AT/R12	16	1	25.4	16	1-11	75.1	69.0	38	1.35
C12420893-1620	D-1620-FB09	R1AT/R2AT/R12	16	1	25.4	20	1 1/4-11	75.1	88.5	50	1.98
C12420892-2020	D-2020-FB09	R1AT/R2AT/R12	20	1 1/4	31.8	20	1 1/4-11	82.3	83.0	50	2.22
C12420893-2024	D-2024-FB09	R1AT/R2AT/R12	20	1 1/4	31.8	24	1 1/2-11	91.0	94.0	55	2.70

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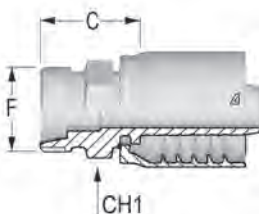
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AlfaCrimp One-Piece Fittings - C124



90° BSP O-Ring Female Swivel 60° Cone Solid One-Piece Continued

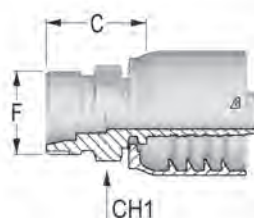
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)				
C12420892-2424	D-2424-FB09	R1AT/R2AT/R12	24	1 1/2	38.1	24	1 1/2-11	95.7	96.0	55	3.82
C12420893-2432	D-2432-FB09	R1AT/R2AT/R12	24	1 1/2	38.1	32	2-11	114.0	110.0	70	3.66
C12420892-3232	D-3232-FB09	R1AT/R2AT/R12	32	2	50.8	32	2-11	128.5	136.0	70	5.42



Metric Solid Male 24° Seat DIN 3853 - Light

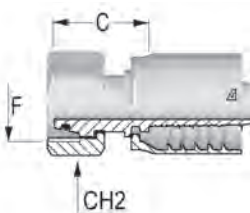
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		Tube O.D. (mm)	C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (mmxTPmm)				
C12411110-0616	D-0616-MMSL	R12	06	3/8	9.5	16	M16x1.5	10	23.3	17	0.18
C12411110-0618	D-0618-MMSL	R12	06	3/8	9.5	18	M18x1.5	12	24.3	19	0.19
C12411110-0622	D-0622-MMSL	R12	06	3/8	9.5	22	M22x1.5	15	25.3	22	0.22
C12411110-0822	D-0822-MMSL	R12	08	1/2	12.7	22	M22x1.5	15	26.1	22	0.26
C12411110-0826	D-0826-MMSL	R12	08	1/2	12.7	26	M26x1.5	18	27.1	27	0.33
C12411110-1026	D-1026-MMSL	R1AT/R2AT/R12	10	5/8	15.9	26	M26x1.5	18	27.1	27	0.37
C12411110-1230	D-1230-MMSL	R1AT/R2AT/R12	12	3/4	19.0	30	M30x2	22	31.6	32	0.50
C12411110-1636	D-1636-MMSL	R1AT/R2AT/R12	16	1	25.4	36	M36x2	28	34.4	36	0.85
C12411110-2045	D-2045-MMSL	R1AT/R2AT/R12	20	1 1/4	31.8	45	M45x2	35	40.0	46	1.29
C12411110-2452	D-2452-MMSL	R1AT/R2AT/R12	24	1 1/2	38.1	52	M52x2	38	42.0	55	3.05

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Metric Solid Male 24° Seat DIN 3861 – Heavy

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		Tube O.D. (mm)	C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (mmxTPmm)				
C12411210-0620	D-0620-MMSH	R12	06	3/8	9.5	20	M20x1.5	12	25.3	22	0.22
C12411210-0622	D-0622-MMSH	R12	06	3/8	9.5	22	M22x1.5	14	27.3	22	0.23
C12411210-0824	D-0824-MMSH	R12	08	1/2	12.7	24	M24x1.5	16	29.1	24	0.29
C12411210-1030	D-1030-MMSH	R1AT/R2AT/R12	10	5/8	15.9	30	M30x2	20	33.1	32	0.44
C12411210-1236	D-1236-MMSH	R1AT/R2AT/R12	12	3/4	19.0	36	M36x2	28	37.6	36	0.65
C12411210-1642	D-1642-MMSH	R1AT/R2AT/R12	16	1	25.4	42	M42x2	30	42.4	46	1.19
C12411210-2052	D-2052-MMSH	R1AT/R2AT/R12	20	1 1/4	31.8	52	M52x2	38	48.0	55	1.65

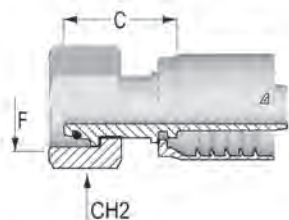


Metric Swivel Female O-Ring 24° Seat DIN 3865 – Light

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		Tube O.D. (mm)	C Cut-Off Factor (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (mmxTPmm)				
C12421513-0618	D-0618-FMOL	R12	06	3/8	9.5	18	M18x1.5	12	24.3	19	0.23
C12421513-0822	D-0822-FMOL	R12	08	1/2	12.7	22	M22x1.5	15	26.1	22	0.32
C12421513-1026	D-1026-FMOL	R1AT/R2AT/R12	10	5/8	15.9	26	M26x1.5	18	27.1	27	0.45
C12421513-1230	D-1230-FMOL	R1AT/R2AT/R12	12	3/4	19.0	30	M30x2	22	31.6	32	0.62
C12421513-1636	D-1636-FMOL	R1AT/R2AT/R12	16	1	25.4	36	M36x2	28	34.4	36	0.96
C12421513-2045	D-2045-FMOL	R1AT/R2AT/R12	20	1 1/4	31.8	45	M45x2	35	40.0	46	1.38
C12421513-2452	D-2452-FMOL	R1AT/R2AT/R12	24	1 1/2	38.1	52	M52x2	38	42.0	55	2.12

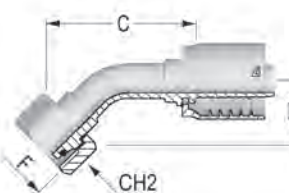
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

AlfaCrimp One-Piece Fittings - C124



Metric Swivel Female O-Ring 24° Seat DIN 3865 – Heavy

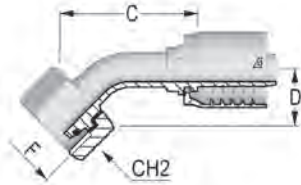
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		Tube O.D. (mm)	C Cut-Off Factor (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (mmxTPmm)				
C12421613-0620	D-0620-FMOH	R12	06	3/8	9.5	20	M20x1.5	12	27.6	24	0.25
C12421613-0622	D-0622-FMOH	R12	06	3/8	9.5	22	M22x1.5	14	31.1	27	0.31
C12421613-0824	D-0824-FMOH	R12	08	1/2	12.7	24	M24x1.5	16	31.7	30	0.40
C12421613-1030	D-1030-FMOH	R1AT/R2AT/R12	10	5/8	15.9	30	M30x2	22	36.5	36	0.59
C12421613-1236	D-1236-FMOH	R1AT/R2AT/R12	12	3/4	19.0	36	M36x2	28	40.2	46	0.99
C12421613-1642	D-1642-FMOH	R1AT/R2AT/R12	16	1	25.4	42	M42x2	30	43.1	50	1.40
C12421613-2052	D-2052-FMOH	R1AT/R2AT/R12	20	1 1/4	31.8	52	M52x2	38	48.1	60	2.04



45° Metric O-Ring Female Swivel 24° Seat DIN 3865 – Light – Solid One-Piece

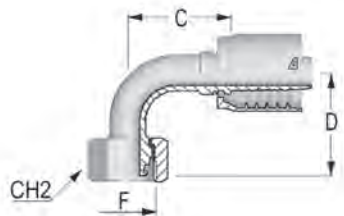
Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		Tube O.D. (mm)	C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (mmxTPmm)					
C12421543-0618	D-0618-FM4L	R12	06	3/8	9.5	18	M18x1.5	12	46.8	19.5	22	0.26
C12421543-0822	D-0822-FM4L	R12	08	1/2	12.7	22	M22x1.5	15	55.0	21.0	27	0.38
C12421543-1026	D-1026-FM4L	R1AT/R2AT/R12	10	5/8	15.9	26	M26x1.5	18	65.3	24.0	32	0.54
C12421543-1230	D-1230-FM4L	R1AT/R2AT/R12	12	3/4	19.0	30	M30x2	22	69.4	32.0	36	0.78
C12421543-1636	D-1636-FM4L	R1AT/R2AT/R12	16	1	25.4	36	M36x2	28	91.4	32.0	41	1.17
C12421543-2045	D-2045-FM4L	R1AT/R2AT/R12	20	1 1/4	31.4	45	M45x2	35	141.5	45.0	50	1.82
C12421543-2452	D-2452-FM4L	R1AT/R2AT/R12	24	1 1/2	38.1	52	M52x2	42	112.0	38.0	60	2.77

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45° Metric O-Ring Female Swivel 24° Seat DIN 3865 – Heavy – Solid One-Piece

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		Tube O.D. (mm)	C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (mmxTPmm)					
C12421643-0620	D-0620-FM4H	R12	06	3/8	9.5	20	M20x1.5	12	50.6	20.0	24	0.28
C12421643-0622	D-0622-FM4H	R12	06	3/8	9.5	22	M22x1.5	14	52.9	21.0	27	0.34
C12421643-0824	D-0824-FM4H	R12	08	1/2	12.7	24	M24x1.5	16	55.8	21.5	30	0.42
C12421643-1030	D-1030-FM4H	R1AT/R2AT/R12	10	5/8	15.9	30	M30x2	22	66.3	30.0	36	0.68
C12421643-1236	D-1236-FM4H	R1AT/R2AT/R12	12	3/4	19.0	36	M36x2	28	69.5	33.0	46	1.11
C12421643-1642	D-1642-FM4H	R1AT/R2AT/R12	16	1	25.4	42	M42x2	30	110.3	40.5	50	1.74
C12421643-2052	D-2052-FM4H	R1AT/R2AT/R12	20	1 1/4	31.8	52	M52x2	38	109.0	45.0	60	2.40

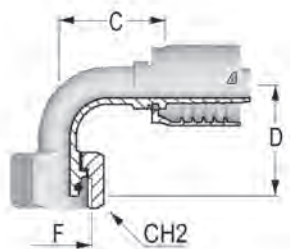


90° Metric O-Ring Female Swivel 24° Seat DIN 3865 – Light – Solid One-Piece

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		Tube O.D. (mm)	C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (mmxTPmm)					
C12421593-0618	D-0618-FM9L	R12	06	3/8	9.5	18	M18x1.5	12	32.8	39.0	22	0.27
C12421593-0822	D-0822-FM9L	R12	08	1/2	12.7	22	M22x1.5	15	39.8	40.5	27	0.38
C12421593-1026	D-1026-FM9L	R1AT/R2AT/R12	10	5/8	15.9	26	M26x1.5	18	51.4	48.0	32	0.56
C12421593-1230	D-1230-FM9L	R1AT/R2AT/R12	12	3/4	19.0	30	M30x2	22	52.1	59.0	36	0.81
C12421593-1636	D-1636-FM9L	R1AT/R2AT/R12	16	1	25.4	36	M36x2	28	77.6	68.0	41	1.29
C12421593-2045	D-2045-FM9L	R1AT/R2AT/R12	20	1 1/4	31.8	45	M45x2	35	90.5	89.0	50	2.04
C12421593-2452	D-2452-FM9L	R1AT/R2AT/R12	24	1 1/2	38.1	52	M52x2	38	106.5	100.0	60	3.18

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AlfaCrimp One-Piece Fittings - C124



90° Metric O-Ring Female Swivel 24° Seat DIN 3865 – Heavy – Solid One-Piece

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		Tube O.D. (mm)	C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (mmxTPmm)					
C12421693-0620	D-0620-FM9H	R12	06	3/8	9.5	20	M20x1.5	12	34.3	38.5	24	0.29
C12421693-0622	D-0622-FM9H	R12	06	3/8	9.5	22	M22x1.5	14	34.3	40.5	27	0.35
C12421693-0824	D-0824-FM9H	R1AT/R2AT/R12	08	1/2	12.7	24	M24x1.5	16	39.8	41.5	30	0.45
C12421693-1030	D-1030-FM9H	R1AT/R2AT/R12	10	5/8	15.9	30	M30x2	22	47.9	55.0	36	0.69
C12421693-1236	D-1236-FM9H	R1AT/R2AT/R12	12	3/4	19.0	36	M36x2	28	50.6	59.5	46	1.12
C12421693-1642	D-1642-FM9H	R1AT/R2AT/R12	16	1	25.4	42	M42x2	30	75.6	79.0	50	1.81
C12421693-2052	D-2052-FM9H	R1AT/R2AT/R12	20	1 1/4	31.8	52	M52x2	38	94.0	92.0	60	2.59

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One-Piece AlfaCrimp C126 Fittings Index

NPTF



NPTF Solid Male 60° Seat184

JIC



JIC Female Swivel 37° Seat with
Stem Hexagon184



45° JIC Female Swivel 37° Seat, Solid
One-Piece185



90° JIC Female Swivel 37° Seat, Solid
One-Piece185

ORFS



ORFS Female with Stem
Hexagon186



45° ORFS Female, Solid One-
Piece186



90° ORFS Female, Solid One-
Piece186

SAE Flange Code 62



Flange SAE 6000 PSI J518
Code 62187



45° Flange 6000 PSI SAE J518 Code
62 Solid One-Piece187



90° Flange 6000 PSI SAE J518
Code 62 Solid One-Piece 188

Caterpillar Flange



SUPERCAT Flange 188



45° SUPERCAT Flange Solid One-
Piece189



90° SUPERCAT Flange Solid One-
Piece189

Fitting Configuration Chart



HOSES

C121

C122

C12A

C124

C126

TWO PIECE FERRULES
(STANDARD & INTERLOCK)

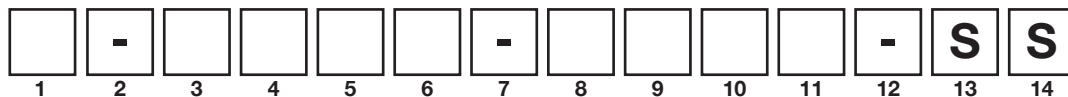
H12 STANDARD
INSERTS

H14 AND H1T
INTERLOCK INSERTS

CRIMPERS

TECHNICAL
INFORMATION

Fitting Type Hose Size Fitting Size Fitting Configuration Optional for Stainless Steel Fittings



1-Piece

B – C12A
Q – C121
C – C122
D – C124
F – C126
H – C12H
M – C12R

2-Piece

A – H12
X – H14
Z – H1T
K – H1K

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-14 or 7/8"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-14 or 7/8"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

Fitting Configuration Chart – Fitting Type Explanation

B – C12A – One piece non-skive crimp fitting for all braided hoses up to 1" ID.
Q – C121 – One piece non-skive crimp fitting for Alfatech 3000 (AT3KMT) hose and Alfajet 210 (TAJ3BK/TAJ3BU) 1/4" ID thru 1/2" ID only, while supplies last.

C – C122 – One piece non-skive crimp fitting for braided hose except Alfatech 3000 (AT3KMT) and Alfajet 210 (TAJ3BK/TAJ3BU) 1/4" ID thru 1/2" ID only, while supplies last.

D – C124 – One piece non-skive crimp fitting for SAE 100R1 and 100R2 wire braided hose and 4 wire spiral hose Flexor 12 (TR12) 1/2" ID thru 2" ID and Alfabiotech 3000 1 1/4" thru 2".

F – C126 – One piece non-skive crimp fitting for Flexor 12 (TR12), 4SH (T4SH), Flexor 13 (TR13), Alfatech 5000, Alfabiotech 5000 3/4" thru 1 1/2" and Alfabiotech 6000 3/4" thru 1 1/4".

H – C12H – One piece non-skive crimp fitting for 4SH (T4SH) in 2" size only.

M – C12R – One Piece non-skive crimp fitting for Flexor 13 (TR13) in 2" size only.

A – H12 – Two piece insert for all wire and textile braided hoses, thermoplastic hose, Flexor 4 and PTFE hose 3/16" thru 2" and Flexor 12 (TR12) 1/2" thru 1 1/2" along with some spiral wire reinforced hoses thru 1 1/2".

X – H14 – Two piece Interlock insert for spiral wire reinforced hoses. Requires both internal and external skiving and a XF1 or XF2 Interlock ferrule to perform properly.

Z – H1T – Two piece Interlock insert for Alfatech 6000 (AT6K) in 2" size only. Requires both internal and external skiving and a ZF1 Interlock ferrule to perform properly.

K – H1K – Two piece insert for Flexor Rig 48, 3" ID size only. Requires a KS1 skive ferrule to perform properly.

TYPE	SUFFIX	DESCRIPTION
NPTF	FNPR	Female National Pipe Rigid
	FPMS	Female Pipe Straight Mechanical Swivel
	FNPS	Female National Pipe Swivel
	MNPT	Male Pipe NPTF
	MNPS	Male National Pipe Swivel
	MPS9	Male Pipe Swivel 90 Degree
JIC	FJSH	Female JIC Single Hex Swivel
	FJDH	Female JIC Double Hex Swivel
	FJ45	Female JIC 45 Degree Swivel
	FJ9L	Female JIC 90 Degree Long Swivel
	FJ9M	Female JIC 90 Degree Medium Swivel
	FJ9S	Female JIC 90 Degree Short Swivel
	MJIC	Male JIC
SAE	FSAE	Female SAE Swivel
	MORB	Male O-Ring Boss
	MOBS	Male O-Ring Boss Swivel
	MBS9	Male O-Ring Boss Swivel 90 Degree
	MIFL	Male Inverted Flare
	MIF4	Male Inverted Flare 45 Degree
	MIF9	Male Inverted Flare 90 Degree
	MSAE	Male SAE
ORFS	FOFS	Female O-Ring Face Seal Swivel
	F030	Female O-Ring Face Seal 30 Degree Medium Swivel
	F045	Female O-Ring Face Seal 45 Degree Swivel
	F09L	Female O-Ring Face Seal 90 Degree Long Swivel
	F09M	Female O-Ring Face Seal 90 Degree Medium Swivel
	F09S	Female O-Ring Face Seal 90 Degree Short Swivel
	MOFS	Male O-Ring Face Seal
SAE Flange Code 61	C61S	Code 61 Flange Straight
	C612	Code 61 Flange 22 Degree
	C613	Code 61 Flange 30 Degree
	C614	Code 61 Flange 45 Degree
	C616	Code 61 Flange 60 Degree
	C619	Code 61 Flange 90 Degree
SAE Flange Code 62	C62S	Code 62 Flange Straight
	C624	Code 62 Flange 45 Degree
	C629	Code 62 Flange 90 Degree

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Fitting Type	Hose Size	Fitting Size
1	2	3
4	5	6
7	8	9
10	11	12
13	14	
15	16	17
18	19	20
21	22	23
24	25	26
27	28	29
30	31	32
33	34	35
36	37	38
39	40	41
42	43	44
45	46	47
48	49	50
51	52	53
54	55	56
57	58	59
60	61	62
63	64	65
66	67	68
69	70	71
72	73	74
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78	79	80
81	82	83
84	85	86
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735	736	737
738	739	740
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1188	1189	1190
1191	1192	1193
1194	1195	1196
1197	1198	1199
1200	1201	1202
1203	1204	1205
1206	1207	1208
1209	1210	1211
1212	1213	12

Alfacrimp Fitting Selection Chart



Former Part Numbers

Hose		-04	-05	-06	-08	-10	-12	-16	-20	-24	-32
		DN 6	DN 8	DN 10	DN 12	DN 16	DN 19	DN 25	DN 32	DN 38	DN 51
		1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
HF and MT (MSHA) Cover	FLEXOR 1SN MINETUFF	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124	C124	C124
	FLEXOPACK 2SC	C12A	C12A	C12A	C12A	C12A	C12A	C12A			
	FLEXOR 2SN MINETUFF	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124	C124	C124
	FLEXOPACK 2 MINETUFF and LOW TEMP	C12A	C12A	C12A	C12A	C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
	ALFATECH 3000 MINETUFF	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124		
		C121	C121	C121	C121						
MSHA cover, HT and Temp Tech	FLEXOR 1SN MSHA	C12A	C12A	C12A	C12A	C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
						C124	C124	C124	C124	C124	C124
	FLEXOR 1SN TEMP TECH	C12A		C12A	C12A	C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
						C124	C124	C124	C124	C124	C124
	FLEXOR 2SN MSHA	C12A	C12A	C12A		C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
				C124	C124	C124	C124	C124	C124	C124	C124
	FLEXOR 2SN TEMP TECH	C12A		C12A		C12A	C12A	C12A			
		C122	C122	C122	C122	C122	C122	C122			
				C124	C124	C124	C124	C124	C124	C124	C124
Wire Spiral Hoses	ALFATECH 4000			C124	C124	C124	C124	C124		C126	C12H
	ALFATECH 5000							C126	C126	C126	C12R
	FLEXOR R12			C124	C124	C124	C124	C124	C124	C124	C124
							C126	C126	C126	C126	
	FLEXOR 4SH						C126	C126	C126	C126	C12H
	FLEXOR R13						C126	C126	C126	C126	C12R
	ALFABIOTECH 3000								C124	C124	C124
	ALFABIOTECH 4000						C124	C124			
	ALFABIOTECH 5000						C126	C126	C126	C126	C12R
	ALFABIOTECH 5500						C126*	C126*			
	ALFABIOTECH 6000						C126	C126	C126		
	FLEXOR RIG							C126	C126	C126	C12R

* under validation

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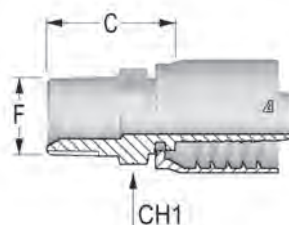
New Part Numbers

Hose		-04	-05	-06	-08	-10	-12	-16	-20	-24	-32
		DN 6	DN 8	DN 10	DN 12	DN 16	DN 19	DN 25	DN 32	DN 38	DN 51
		1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
HF and MT (MSHA) Cover	FLEXOR 1SN MINETUFF	B	B	B	B	B	B	B	D	D	D
	FLEXOPACK 2SC	B	B	B	B	B	B	B			
	FLEXOR 2SN MINETUFF	B	B	B	B	B	B	B	D	D	D
	FLEXOPACK 2 MINETUFF and LOW TEMP	B	B	B	B	B	B	B			
		C	C	C	C	C	C	C			
	ALFATECH 3000 MINETUFF	B	B	B	B	B	B	B	D		
		Q	Q	Q	Q						
MSHA cover, HT and Temp Tech	FLEXOR 1SN MSHA	B	B	B	B	B	B	B			
		C	C	C	C	C	C	C			
						D	D	D	D	D	D
	FLEXOR 1SN TEMP TECH	B		B	B	B	B	B			
		C	C	C	C	C	C	C			
						D	D	D	D	D	D
	FLEXOR 2SN MSHA	B	B	B		B	B	B			
		C	C	C	C	C	C	C			
				D	D	D	D	D	D	D	D
	FLEXOR 2SN TEMP TECH	B		B		B	B	B			
		C	C	C	C	C	C	C			
				D	D	D	D	D	D	D	D
Wire Spiral Hoses	ALFATECH 4000			D	D	D	D	D		F	H
	ALFATECH 5000							F	F	F	M
	FLEXOR R12			D	D	D	D	D	D	D	D
							F	F	F	F	
	FLEXOR 4SH						F	F	F	F	H
	FLEXOR R13						F	F	F	F	M
	ALFABIOTECH 3000								D	D	D
	ALFABIOTECH 4000						D	D			
	ALFABIOTECH 5000						F	F	F	F	M
	ALFABIOTECH 5500						F*	F*			
	ALFABIOTECH 6000						F	F	F		
	FLEXOR RIG							F	F	F	M

* under validation

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

AlfaCrimp One-Piece Fittings - C126

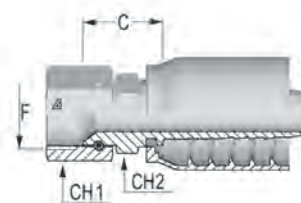


NPTF Solid Male 60° Seat

Former Part Number	New Part Number	For use with these hoses	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
				(in.)	(mm)	Dash Size	Size (in. TPI)			
C12612810-1212	F-1212-MNPT	R13/4SH	12	3/4	19.0	12	3/4-14	34.6	27	0.75
C12612810-1616	F-1616-MNPT	R13/4SH	16	1	25.4	16	1-11 1/2	43.4	36	1.25
C12612810-2020	F-2020-MNPT	R13/4SH	20	1 1/4	31.8	20	1 1/4-11	46.8	46	2.34
C12612810-2424	F-2424-MNPT	R13/4SH	24	1 1/2	38.1	24	1 1/2-11 1/2	49.5	50	2.47
C12H12810-3232	H-3232-MNPT	4SH	32	2	50.8	32	2-11 1/2	53.7	65	3.24
C12R12810-3232	M-3232-MNPT	R13	32	2	50.8	32	2-11 1/2	53.7	65	3.24
C12H1281Z-3232	H-3232-MAPI	4SH	32	2	50.8	32	2-11 1/2	95.5	65	3.42
C12R1281Z-3232	M-3232-MAPI	R13	32	2	50.8	32	2-11 1/2	95.5	65	3.42

†MAPI (NPTF API Male Pipe)

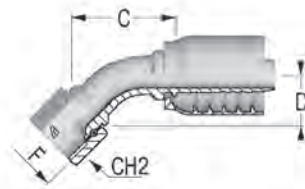
*Note: This fitting is dimensionally the same as NPTF, but has a longer thread length to meet the API (American Petroleum Institute) spec, which allows it to connect to special oil field fittings.



JIC Female Swivel 37° Seat with Stem Hexagon

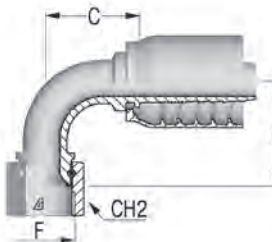
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12626512-1212	F-1212-FJDH	12	3/4	19.0	12	1 1/16-12	30.2	27	32	0.84
C12626512-1616	F-1616-FJDH	16	1	25.4	16	1 5/16-12	38.0	36	38	1.34
C12626512-2020	F-2020-FJDH	20	1 1/4	31.8	20	1 5/8-12	43.1	41	50	2.38
C12626512-2424	F-2424-FJDH	24	1 1/2	38.1	24	1 7/8-12	49.4	50	55	3.13
C12H26512-3232	H-3232-FJDH	32	2	50.8	32	2 1/2-12	67.0	65	70	3.79
C12R26512-3232	M-3232-FJDH	32	2	50.8	32	2 1/2-12	67.0	65	70	3.79

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45° JIC Female Swivel 37° Seat, Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12622542-1212	F-1212-FJ45	12	3/4	19.0	12	1 1/16-12	67.4	27.5	32	0.99
C12622542-1616	F-1616-FJ45	16	1	25.4	16	1 5/16-12	77.9	31.0	38	1.54
C12622542-2020	F-2020-FJ45	20	1 1/4	31.8	20	1 5/8-12	99.0	37.0	50	2.71
C12622542-2424	F-2424-FJ45	24	1 1/2	38.1	24	1 7/8-12	118.0	43.5	55	3.43
C12H22542-3232	H-3232-FJ45	32	2	50.8	32	2 1/2-12	162.3	51.5	70	4.83
C12R22542-3232	M-3232-FJ45	32	2	50.8	32	2 1/2-12	162.3	51.5	70	4.83



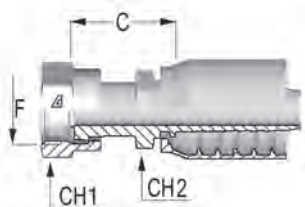
90° JIC Female Swivel 37° Seat, Solid One- Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12622592-1212	F-1212-FJ9M	12	3/4	19.0	12	1 1/16-12	59.0	57.0	32	1.01
C12622592-1616	F-1616-FJ9M	16	1	25.4	16	1 5/16-12	76.0	67.0	38	1.63
C12622592-2020	F-2020-FJ9M	20	1 1/4	31.8	20	1 5/8-12	67.5	71.1	50	2.82
C12622592-2424	F-2424-FJ9M	24	1 1/2	38.1	24	1 7/8-12	105.0	92.0	55	3.53
C12H22592-3232	H-3232-FJ9M	32	2	50.8	32	2 1/2-12	147.5	135.0	70	4.91
C12R22592-3232	M-3232-FJ9M	32	2	50.8	32	2 1/2-12	147.5	135.0	70	4.91

* Consult KOA for hose part numbers approved for use.

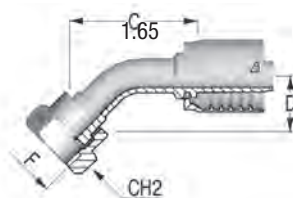
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

AlfaCrimp One-Piece Fittings - C126



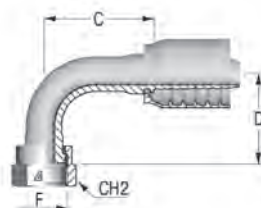
ORFS Female with Stem Hexagon

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12622411-1212	F-1212-F0FS	12	3/4	19.0	12	1 3/16-12	44.5	30	36	0.79
C12622411-1216	F-1216-F0FS	12	3/4	19.0	16	1 7/16-12	50.5	36	41	0.99
C12622411-1616	F-1616-F0FS	16	1	25.4	16	1 7/16-12	52.5	36	41	1.17
C12622411-1620	F-1620-F0FS	16	1	25.4	20	1 11/16-12	53.5	41	50	2.09
C12622411-2020	F-2020-F0FS	20	1 1/4	31.8	20	1 11/16-12	56.0	41	50	2.47



45° ORFS Female, Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12622441-1212	F-1212-F045	12	3/4	19.0	12	1 3/16-12	81	26	36	1.17
C12622441-1216	F-1216-F045	12	3/4	19.0	16	1 7/16-12	81	28	41	1.43
C12622441-1616	F-1616-F045	16	1	25.4	16	1 7/16-12	94	28	41	1.65

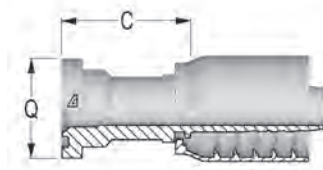


90° ORFS Female, Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
C12622491-1212	F-1212-F09M	12	3/4	19.0	12	1 3/16-12	68	58	36	1.26
C12622491-1216	F-1216-F09M	12	3/4	19.0	16	1 7/16-12	70	58	41	1.57
C12622491-1616	F-1616-F09M	16	1	25.4	16	1 7/16-12	80	66	41	1.76
C12622491-2020	F-2020-F09M	20	1 1/4	31.8	20	1 11/16-12	102	81	50	2.67

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

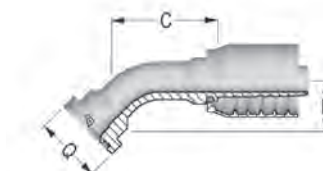




For Split Flange Clamps
please refer to page 237.

Flange SAE 6000 PSI J518 Code 62

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	Flange Dash Size	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)			
C12643610-1212	F-1212-C62S	12	3/4	19.0	1.63	41.3	53.5	12	0.97
C12643610-1216	F-1216-C62S	12	3/4	19.0	1.88	47.6	56.5	16	1.12
C12643610-1616	F-1616-C62S	16	1	25.4	1.88	47.6	58.5	16	1.48
C12643610-1620	F-1620-C62S	16	1	25.4	2.13	54.0	65.5	20	1.72
C12643610-2016	F-2016-C62S	20	1 1/4	31.8	1.88	47.6	55.2	16	2.16
C12643610-2020	F-2020-C62S	20	1 1/4	31.8	2.13	54.0	64.0	20	2.34
C12643610-2024	F-2024-C62S	20	1 1/4	31.8	2.50	63.5	74.0	24	2.78
C12643610-2424	F-2424-C62S	24	1 1/2	38.1	2.50	63.5	76.0	24	3.31
C12643610-2432	F-2432-C62S	24	1 1/2	38.1	3.13	79.4	88.0	32	5.18
C12H43610-3232	H-3232-C62S	32	2	50.8	3.13	79.4	103.0	32	5.84
C12R43610-3232	M-3232-C62S	32	2	50.8	3.13	79.4	103.0	32	5.84



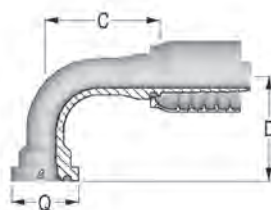
For Split Flange Clamps
please refer to page 237.

45° Flange 6000 PSI SAE J518 Code 62 Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Flange Dash Size	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
C12643640-1212	F-1212-C624	12	3/4	19.0	1.63	41.3	75	30.0	12	1.12
C12643640-1216	F-1216-C624	12	3/4	19.0	1.88	47.6	80	33.0	16	1.32
C12643640-1616	F-1616-C624	16	1	25.4	1.88	47.6	98	38.5	16	1.87
C12643640-1620	F-1620-C624	16	1	25.4	2.13	54.0	96	44.0	20	2.09
C12643640-2020	F-2020-C624	20	1 1/4	31.8	2.13	54.0	103	41.0	20	2.73
C12643640-2024	F-2024-C624	20	1 1/4	31.8	2.50	63.5	117	48.0	24	3.24
C12643640-2424	F-2424-C624	24	1 1/2	38.1	2.50	63.5	144	48.0	24	4.00
C12643640-2432	F-2432-C624	24	1 1/2	38.1	3.13	79.4	137	55.0	32	4.61
C12H43640-3232	H-3232-C624	32	2	50.8	3.13	79.4	177	61.0	32	4.83
C12R43640-3232	M-3232-C624	32	2	50.8	3.13	79.4	177	61.0	32	4.83

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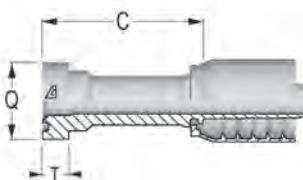
AlfaCrimp One-Piece Fittings - C126



For Split Flange Clamps
please refer to page 237.

90° Flange 6000 PSI SAE J518 Code 62 Solid One-Piece

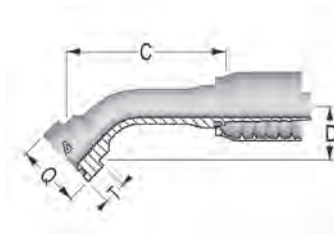
Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Flange Dash Size	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
C12643690-1212	F-1212-C629	12	3/4	19.0	1.63	41.3	65	64.0	12	1.28
C12643690-1216	F-1216-C629	12	3/4	19.0	1.88	47.6	65	66.0	16	1.43
C12643690-1616	F-1616-C629	16	1	25.4	1.88	47.6	75	74.0	16	1.87
C12643690-1620	F-1620-C629	16	1	25.4	2.13	54.0	79	85.0	20	2.36
C12643690-2020	F-2020-C629	20	1 1/4	31.8	2.13	54.0	96	91.0	20	3.02
C12643690-2024	F-2024-C629	20	1 1/4	31.8	2.50	63.5	99	103.5	24	3.64
C12643690-2420	F-2420-C629	24	1 1/2	38.1	2.13	54.0	112	85.0	20	3.91
C12643690-2424	F-2424-C629	24	1 1/2	38.1	2.50	63.5	114	109.0	24	4.30
C12643690-2432	F-2432-C629	24	1 1/2	38.1	3.13	79.4	118	121.5	32	4.78
C12H43690-3232	H-3232-C629	32	2	50.8	3.13	79.4	172	131.0	32	4.98
C12R43690-3232	M-3232-C629	32	2	50.8	3.13	79.4	172	131.0	32	4.98



SUPERCAT Flange

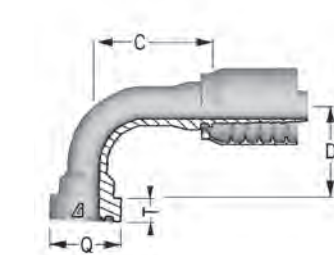
Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	T (mm)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)			
C12643910-1212	F-1212-CFLS	12	3/4	19.0	1.63	41.3	85.5	14.3	1.26
C12643910-1216	F-1216-CFLS	12	3/4	19.0	1.88	47.6	85.5	14.3	1.41
C12643910-1616	F-1616-CFLS	16	1	25.4	1.88	47.6	94.5	14.3	1.87
C12643910-1620	F-1620-CFLS	16	1	25.4	2.13	54.0	94.5	14.3	2.05
C12643910-2020	F-2020-CFLS	20	1 1/4	31.8	2.13	54.0	92.0	14.3	2.26
C12643910-2424	F-2424-CFLS	24	1 1/2	38.0	2.50	63.5	89.0	14.3	2.50

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45° SUPERCAT Flange Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	T (mm)	D Drop (mm)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
C12643940-1212	F-1212-CFL4	12	3/4	19.0	1.63	41.3	103.0	14.3	34.0	1.34
C12643940-1216	F-1216-CFL4	12	3/4	19.0	1.88	47.6	106.5	14.3	36.0	1.52
C12643940-1616	F-1616-CFL4	16	1	25.4	1.88	47.6	129.0	14.3	42.5	1.72
C12643940-1620	F-1620-CFL4	16	1	25.4	2.13	54.0	128.0	14.3	40.0	2.02
C12643940-2020	F-2020-CFL4	20	1 1/4	31.8	2.13	54.0	150.0	14.3	45.0	2.58



90° SUPERCAT Flange Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	T (mm)	D Drop (mm)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
C12643990-1212	F-1212-CFL9	12	3/4	19.0	1.63	41.3	67	14.3	67.0	1.12
C12643990-1216	F-1216-CFL9	12	3/4	19.0	1.88	47.6	69	14.3	70.0	1.38
C12643990-1616	F-1616-CFL9	16	1	25.4	1.88	47.6	85	14.3	79.0	2.13
C12643990-1620	F-1620-CFL9	16	1	25.4	2.13	54.0	80	14.3	82.5	2.21
C12643990-2020	F-2020-CFL9	20	1 1/4	31.8	2.13	54.0	97	14.3	93.0	3.57

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TOP COAT

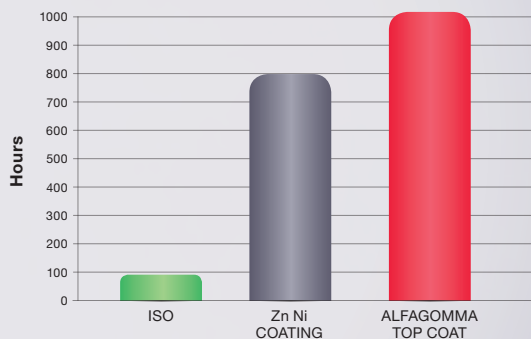
**ALFAGOMMA TOP COAT
OVER 10 TIMES HIGHER
THAN STANDARD**



TOP COAT

- ▲ **TESTED IN ACCORDANCE WITH
ASTM B117-03 AND UNI ISO 9227
STANDARDS**
- ▲ **OVER 500 HOURS CORROSION
PREVENTION IN SALT SPRAY FOG TO
WHITE RUST**
- ▲ **MORE THAN 1000 HOURS CORROSION
RESISTANCE TO RED RUST**

Resistance to red rust in salt fog
(test in compliance with ISO 9227)



Two-Piece Standard Fittings Index

Standard Ferrules – Skive

	H1100104/AS1.....	202
	H1100204/AS2.....	202
	H1100404/AS4.....	202
	H1100SK1/ASK NEW	203
	H1K00170/KS1 NEW	203

Standard Ferrules – Non Skive

	H1200AD1/AF1.....	208
	H1200AD2/AF2.....	208
	H1200203/AF3.....	209
	H1200204/AF4.....	209
	H1200202/AFB	209
	H1200TP0/AFP NEW	210
	H1200101/AFQ	210
	H2200TF0/AFT NEW	210
	H1200TX2/AFX..... NEW	211
	PFR - Piranhaflex™	211

Standard Inserts – US End Configurations

NPTF

	NPTF Solid Male 60° Seat.....	215
	NPTF Solid Male Swivel 60° Seat ...	216
	90° Compact NPTF Male Swivel 60° Seat NEW	216
	NPTF Solid Female Rigid	217
	NPSM Female Swivel 60° Seat	217

JIC

	JIC Solid Male 37° Seat.....	220
	JIC Female 37° Seat	221
	JIC Female 37° Seat – Double Hex	222
	45° JIC Female Swivel 37° Seat Solid One-Piece	223
	90° JIC Female Swivel 37° Seat Short Drop Solid One-Piece	224
	90° JIC Female Swivel 37° Seat Medium Drop Solid One-Piece..	225
	90° JIC Female Swivel 37° Seat Long Drop Solid One-Piece	226

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Two-Piece Standard Fittings Index

Standard Inserts – US End Configurations

SAE



SAE Male O-Ring Boss
Swivel **NEW** 218



90° Compact SAE Male Swivel O-Ring
Boss..... **NEW** 218



SAE Solid Male O-Ring Boss..... 219



SAE Female 45° Seat – Double Hex
..... 223

ORFS



ORFS Solid Male..... 227



ORFS Female - Double Hex.. 227 - 228



45° ORFS Female Swivel Solid
One-Piece 228



90° ORFS Female Swivel Short Drop
Solid One-Piece..... 229



90° ORFS Female Swivel Medium Drop
Solid One-Piece..... 230



90° ORFS Female Swivel Long Drop
Solid One-Piece 231

SAE Flange Code 61



O-Ring Flange SAE J518 Code 61
Solid One-Piece 232



22° O-Ring Flange SAE J518 Code 61
Solid One-Piece..... 232



30° O-Ring Flange SAE J518 Code 61
Solid One-Piece..... 233



45° O-Ring Flange SAE J518 Code 61
Solid One-Piece..... 233



60° O-Ring Flange SAE J518 Code 61
Solid One-Piece..... 234



90° O-Ring Flange SAE J518 Code 61
Solid One-Piece..... 234



Split Flange Clamps SAE J518 Code
61 – 3000 PSI..... 236

SAE Flange Code 62



O-Ring Flange SAE J518 Code 62
Solid One-Piece 235



45° O-Ring Flange SAE J518 Code 62
Solid One-Piece 235



90° O-Ring Flange SAE J518 Code 62
Solid One-Piece 236



Split Flange Clamps SAE J518 Code
62 – 6000 PSI 237

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Two-Piece Standard Fittings Index

Standard Inserts – International End Configurations

BSP

	BSP Solid Male Parallel 60° Seat239
	BSP Solid Male Flat Seat240
	BSP/JIS Solid Male Tapered240
	BSP Banjo - RNR241
	BSPP Bolt241
	BSP O-Ring Female Swivel 60° Cone242
	45° BSP O-Ring Female Swivel 60° Cone Solid One-Piece243
	90° BSP Compact Female Elbow 60° Cone244
	90° BSP O-Ring Female Swivel 60° Cone Solid One-Piece ... 244-245
	BSP Female Swivel Flat Seat245

Metric

	Metric Solid Male 24° Seat – DIN 3853 Light246
	Metric O-Ring Female Swivel 24° Seat - DIN 3865 Light247

Metric (continued)

	45° Metric O-Ring Female Swivel 24° Seat - DIN 3865 Light Solid One-Piece247
	Metric Solid Male 24° Seat – DIN 3853 Heavy248
	90° Metric O-Ring Female Swivel 24° Seat - DIN 3865 Light Solid One-Piece248
	Metric O-Ring Female Swivel 24° Seat – DIN 3853 Heavy249
	45° Metric O-Ring Female Swivel 24° Seat - DIN 3865 Heavy Solid One-Piece249
	Metric Swivel Female 60° Cone – DIN 3863250
	90° Metric O-Ring Female Swivel 24° Seat - DIN 3865 Heavy Solid One-Piece250
	Metric Banjo251
	Metric Bolt251
	Metric Straight Standpipe252
	45° Metric Solid Bent Tube Standpipe - DIN 2353253
	90° Metric Solid Bent Tube Standpipe - DIN 2353253 - 254

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Two-Piece Standard/Interlock Fittings Index

Standard Inserts – International End Configurations

Metric (continued)



Metric Male French Type **NEW** ... 256



Metric Female French Type 257

DIN



Nut DIN 24° Light 254



Nut DIN 24° Heavy 255



Double Cutting Ring DIN 24°
Light 255



Double Cutting Ring DIN 24°
Heavy 256

JIS



JIS Female Swivel 30° Seat – B 8363
Type F 257



Komatsu Female 258



Komatsu Straight Solid One-Piece
O-Ring Flange 258



Komatsu 45° Solid One-Piece O-Ring
Flange 259



Komatsu 90° Solid One-Piece O-Ring
Flange 259

Other



Grease Fitting 237



Bite Type Tube Fitting 237



Hose Mender 238



Pressure Wash Female (Type K) 259

Interlock Ferrules – Skive



H1400301/XF1 264



H1400200/XF2 264



H1T00600/ZF1 280

Interlock Inserts – US End Configurations

NPTF



NPTF Solid Male 60° Seat Interlock
..... 268

JIC



JIC Solid Male 37° Interlock 268



JIC Swivel Female 37° Seat
Interlock 269



45° JIC Swivel Female 37° Seat Solid
One-Piece Interlock 269



90° JIC Swivel Female 37° Seat Solid
One-Piece Interlock 269

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Two-Piece Interlock Fittings Index

Interlock Inserts – US End Configurations

ORFS

	ORFS Straight Female - Double Hex Interlock	270
	45° ORFS Female Solid One-Piece Interlock	270
	90° ORFS Female Solid One-Piece Interlock	270

SAE Flange Code 61

	O-Ring Flange SAE J518 Code 61 Solid One-Piece Interlock	271
	45° O-Ring Flange SAE J518 Code 61 Solid One-Piece Interlock	271
	90° O-Ring Flange SAE J518 Code 61 Solid One-Piece Interlock	272

SAE Flange Code 62

	O-Ring Flange SAE J518 Code 62 Solid One-Piece Interlock ..	272, 280
	45° O-Ring Flange SAE J518 Code 62 Solid One-Piece Interlock ..	273, 280
	90° O-Ring Flange SAE J518 Code 62 Solid One-Piece Interlock ..	273, 281

Caterpillar Flange

	O-Ring SuperCAT 6000 PSI Flange Solid One-Piece Interlock	274
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Caterpillar Flange (continued)

	45° O-Ring SuperCAT 6000 PSI Flange Solid One-Piece Interlock	274
	90° O-Ring SuperCAT 6000 PSI Flange Solid One-Piece Interlock	275

Interlock Inserts – International End Configurations

BSP

	BSP Solid Male Parallel 60° Seat Interlock	276
	BSP/JIS Solid Male Tapered Interlock	276
	BSP/JIC Swivel Female 60° Cone Interlock	276
	45° BSP Swivel Female 60° Cone Solid One-Piece Interlock	277
	90° BSP Swivel Female 60° Cone Solid One-Piece Interlock	277

Metric

	Metric Solid Male 24° Seat Interlock – DIN 3861 Heavy	278
	Metric Female O-Ring Swivel Interlock – DIN 3865 Heavy	278
	45° Metric Female O-Ring Swivel Solid One-Piece Interlock – DIN 3865 Heavy	279
	90° Metric Female O-Ring Swivel Solid One-Piece Interlock – DIN 3865 Heavy	279

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Fitting Configuration Chart



HOSES

C121

C122

C12A

C124

C126

TWO PIECE FERRULES
(STANDARD & INTERLOCK)

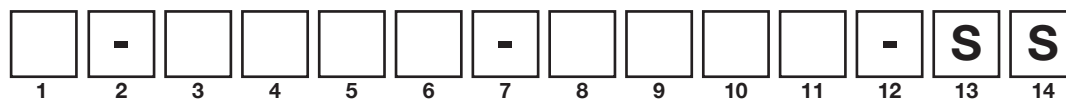
H12 STANDARD
INSERTS

H14 AND H1T
INTERLOCK INSERTS

CRIMPERS

TECHNICAL
INFORMATION

Fitting Type Hose Size Fitting Size Fitting Configuration Optional for Stainless Steel Fittings



1-Piece

B – C12A
Q – C121
C – C122
D – C124
F – C126
H – C12H
M – C12R

2-Piece

A – H12
X – H14
Z – H1T
K – H1K

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-14 or 7/8"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-14 or 7/8"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

Fitting Configuration Chart – Fitting Type Explanation

B – C12A – One piece non-skive crimp fitting for all braided hoses up to 1" ID.
Q – C121 – One piece non-skive crimp fitting for Alfatech 3000 (AT3KMT) hose and Alfajet 210 (TAJ3BK/TAJ3BU) 1/4" ID thru 1/2" ID only, while supplies last.

C – C122 – One piece non-skive crimp fitting for braided hose except Alfatech 3000 (AT3KMT) and Alfajet 210 (TAJ3BK/TAJ3BU) 1/4" ID thru 1/2" ID only, while supplies last.

D – C124 – One piece non-skive crimp fitting for SAE 100R1 and 100R2 wire braided hose and 4 wire spiral hose Flexor 12 (TR12) 1/2" ID thru 2" ID and Alfabiotech 3000 1 1/4" thru 2".

F – C126 – One piece non-skive crimp fitting for Flexor 12 (TR12), 4SH (T4SH), Flexor 13 (TR13), Alfatech 5000, Alfabiotech 5000 3/4" thru 1 1/2" and Alfabiotech 6000 3/4" thru 1 1/4".

H – C12H – One piece non-skive crimp fitting for 4SH (T4SH) in 2" size only.

M – C12R – One Piece non-skive crimp fitting for Flexor 13 (TR13) in 2" size only.

A – H12 – Two piece insert for all wire and textile braided hoses, thermoplastic hose, Flexor 4 and PTFE hose 3/16" thru 2" and Flexor 12 (TR12) 1/2" thru 1 1/2" along with some spiral wire reinforced hoses thru 1 1/2".

X – H14 – Two piece Interlock insert for spiral wire reinforced hoses. Requires both internal and external skiving and a XF1 or XF2 Interlock ferrule to perform properly.

Z – H1T – Two piece Interlock insert for Alfatech 6000 (AT6K) in 2" size only. Requires both internal and external skiving and a ZF1 Interlock ferrule to perform properly.

K – H1K – Two piece insert for Flexor Rig 48, 3" ID size only. Requires a KS1 skive ferrule to perform properly.

TYPE	SUFFIX	DESCRIPTION
NPTF	FNPR	Female National Pipe Rigid
	FPMS	Female Pipe Straight Mechanical Swivel
	FNPS	Female National Pipe Swivel
	MNPT	Male Pipe NPTF
	MNPS	Male National Pipe Swivel
	MPS9	Male Pipe Swivel 90 Degree
JIC	FJSH	Female JIC Single Hex Swivel
	FJDH	Female JIC Double Hex Swivel
	FJ45	Female JIC 45 Degree Swivel
	FJ9L	Female JIC 90 Degree Long Swivel
	FJ9M	Female JIC 90 Degree Medium Swivel
	FJ9S	Female JIC 90 Degree Short Swivel
	MJIC	Male JIC
SAE	FSAE	Female SAE Swivel
	MORB	Male O-Ring Boss
	MOBS	Male O-Ring Boss Swivel
	MBS9	Male O-Ring Boss Swivel 90 Degree
	MIFL	Male Inverted Flare
	MIF4	Male Inverted Flare 45 Degree
	MIF9	Male Inverted Flare 90 Degree
	MSAE	Male SAE
ORFS	FOFS	Female O-Ring Face Seal Swivel
	F030	Female O-Ring Face Seal 30 Degree Medium Swivel
	F045	Female O-Ring Face Seal 45 Degree Swivel
	F09L	Female O-Ring Face Seal 90 Degree Long Swivel
	F09M	Female O-Ring Face Seal 90 Degree Medium Swivel
	F09S	Female O-Ring Face Seal 90 Degree Short Swivel
	MOFS	Male O-Ring Face Seal
SAE Flange Code 61	C61S	Code 61 Flange Straight
	C612	Code 61 Flange 22 Degree
	C613	Code 61 Flange 30 Degree
	C614	Code 61 Flange 45 Degree
	C616	Code 61 Flange 60 Degree
	C619	Code 61 Flange 90 Degree
SAE Flange Code 62	C62S	Code 62 Flange Straight
	C624	Code 62 Flange 45 Degree
	C629	Code 62 Flange 90 Degree

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Fitting Type	Hose Size	Fitting Size
1	2	3
4	5	6
7		
8	9	10
11	12	13
14		
15	16	17
18	19	20
21	22	23
24	25	26
27	28	29
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84	85	86
87	88	89
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93	94	95
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99	100	101
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105	106	107
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111	112	113
114	115	116
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621	622	623
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723	724	725
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729	730	731
732	733	734
735	736	737
738	739	740
741	742	743
744	745	746
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780	781	782
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810	811	812
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816	817	818
819	820	821
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825	826	827
828	829	830
831	832	833
834	835	836
837	838	839
840	841	842
843	844	845
846	847	848
849	850	851
852	853	854
855	856	857
858	859	860
861	862	863
864	865	866
867	868	869
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873	874	875
876	877	878
879	880	881
882	883	884
885	886	887
888	889	890
891	892	893
894	895	896
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921	922	923
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939	940	941
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954	955	956
957	958	959
960	961	962
963	964	965
966	967	968
969	970	971
972	973	974
975	976	977
978	979	980
981	982	983
984	985	986
987	988	989
990	991	992
993	994	995
996	997	998
999	1000	1001
1002	1003	1004
1005	1006	1007
1008	1009	1010
1011	1012	1013
1014	1015	1016
1017	1018	1019
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1095	1096	1097
1098	1099	1100
1101	1102	1103
1104	1105	1106
1107	1108	1109
1110	1111	1112
1113	1114	1115
1116	1117	1118
1119	1120	1121
1122	1123	1124
1125	1126	1127
1128	1129	1130
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1149	1150	1151
1152	1153	1154
1155	1156	1157
1158	1159	1160
1161	1162	1163
1164	1165	1166
1167	1168	1169
1170	1171	1172
1173	1174	1175
1176	1177	1178
1179	1180	1181
1182	1183	1184
1185	1186	1187
1188	1189	1190
1191	1192	1193
1194	1195	1196
1197	1198	1199
1200	1201	1202
1203	1204	1205
1206	1207	1208
1209	1210	

Hose Ferrule Part Number Configurator



HOSES

C121

C122

C12A

C124

C126

TWO PIECE FERRULES
(STANDARD & INTERLOCK)

H12 STANDARD
INSERTS

H14 AND H1T
INTERLOCK INSERTS

CRIMPERS

TECHNICAL
INFORMATION

Ferrule Type				Ferrule Size			Optional for Stainless Steel Fittings	
☐	☐	☐	☐	☐	☐	☐	☐	☐
1	2	3	4	5	6	7	8	9

No Skive Ferrule

AF1 – H1200AD1
AF2 – H1200AD2
AF3 – H1200203
AF4 – H1200204
AFB – H1200202
AFP – H1200TP0
AFQ – H1200101
AFT – H2200TF0
AFX – H1200TX2
PFR – PiranhaFlex

Skive Ferrule

ASK – H1100SK1
AS1 – H1100104
AS2 – H1100204
AS4 – H1100404
KS1 – H1K00170

Interlock Ferrule

XF1 – H1400301
XF2 – H1400200
XF3 – H1400300
ZF1 – H1T00600

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

Fitting Configuration Chart – Ferrule Type Explanation

AF1 – H1200AD1 – Two piece non-skive ferrule for use with "A" insert on single wire braided and compact hydraulic hoses, Flexor 1 (TR1SN, TR1MT, TR1SNTT), Flexopak 2 (TF2MT, TF2ST, TF2LT), Alfatech 3000 (AT3KMT, AT3KST), Alfajet 210 (TAJ3BK/BU) and Alfajet 400 (TAJ5BK/BU).

AF2 – H1200AD2 – Two piece non-skive ferrule for use with "A" insert on double wire braided hydraulic hoses, Flexor 2 (TR2SN, TR2MT, TR2SNTT).

AF3 – H1200203 – Two piece non-skive ferrule for use with "A" insert on single wire braided hydraulic hose Flexor 5 (TR5, TR5TT) and textile braided Flexor 4 (TR4XF).

AF4 – H1200204 – Two piece non-skive ferrule for use with "A" insert on spiral wire reinforced hoses Flexor 12 (TR12)

AFB – H1200202 – Two piece non-skive ferrule for use with "A" insert on double wire braided hydraulic hoses, Flexor 2 (TR2SN) While supplies last.

AFP – H1200TP0 – Two piece non-skive ferrule for use with "A" insert on R17 hydraulic hose, AT3KMT and AT3KST in sizes 3/16" through 1/2" size.

AFQ – H1200101 – Two piece non-skive ferrule for use with "A" insert on single wire braided compact hydraulic hose Alfatech 3000 (AT3KMT, AT3KST), Alfajet 210 (TAJ3BK/BU) while supplies last.

AFT – H2200TF0 – Two piece non-skive stainless steel ferrule for use with "A" insert on stainless braided PTFE hose (TR14TB).

AFX – H1200TX2 – Two piece non-skive ferrule for use with "A" insert on textile braided hydraulic hose Flexor 3 (TR3) and Flexor 4 (TR4XF).

PFR – PiranhaFlex – Two piece non-skive ferrule for use with "A" insert on all PiranhaFlex hydraulic hoses, R7, R8 and R18 styles.

ASK – H1100SK1 – Two piece skive ferrule for use with "A" insert on single wire braided and compact hydraulic hoses, Flexor 1 (TR1SN, TR1MT, TR1SNTT), Flexopak 2 (TF2MT, TF2ST, TF2LT), Alfatech 3000 (AT3KMT, AT3KST), Alfajet 210 (TAJ3BK/BU) and Alfajet 400 (TAJ5BK/BU).

AS1 – H1100104 – Two piece skive ferrule for use with "A" insert on Flexor 1 (TR1SN, TR1MT, TR1SNTT) 1 1/4" thru 2" and Flexopak 2 (TF2MT) 1 1/4" thru 1 1/2".

AS2 – H1100204 – Two piece skive ferrule for use with "A" insert on one and two wire braided hoses (TR1SN/MT/TT, TR2SN/MT/TT), Flexopak 2 (TF2MT/ST) and some spiral wire reinforced hoses while supplies last.

AS4 – H1100404 – Two piece skive ferrule for use with "A" insert on two wire braided hose (TR2SN/MT/TT) and spiral reinforced hoses (TR12, 4SP, R15) and Alfabiotech.

KS1 – H1K00170 – Two piece skive ferrule for use with "K" insert on Flexor Rig-48

XF1 – H1400301 – Two piece Interlock ferrule for use with "X" Interlock insert on spiral wire reinforced hoses

XF2 – H1400200 – Two piece Interlock ferrule for use with "X" Interlock insert on spiral wire reinforced hoses

XF3 – H1400300 – Two Piece Interlock ferrule for use with "X" Interlock insert on spiral wire reinforced hoses to be able to crimp them using the KD200 crimp system.

ZF1 – H1T00600 – Two piece Interlock ferrule for use with "Z" Interlock insert on Alfatech 6000-32, 2" size.

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HOSES
C121
C122
C12A
C124
C126
TWO PIECE FERRULES (STANDARD & INTERLOCK)
H12 STANDARD INSERTS
H14 AND H1T INTERLOCK INSERTS
CRIMPERS
TECHNICAL INFORMATION

Ferrule Selection Chart

Skive Ferrule For Standard Fittings



Former Part Numbers

Hose	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-40	-48
	DN 5	DN 6	DN 8	DN 10	DN 12	DN 16	DN 19	DN 25	DN 32	DN 38	DN 51	DN 63	DN 76
	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2	2 1/2	3
FLEXOR 1SN MSHA	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100104	H1100104	H1100104		
FLEXOR 1SN MT	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100104	H1100104	H1100104		
1SN TEMP TECH		H1100204		H1100204	H1100204	H1100204	H1100204	H1100204	H1100104	H1100104	H1100104		
FLEXOR 2SN MSHA	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204		
FLEXOR 2SN MT	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204		
2SN TEMP TECH		H1100204		H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204		
FLEXOPAK 2 MT		H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100104	H1100104	H1100204		
FLEXOR 2SC		H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204					
FLEXOPAK 2 LT		H1100204		H1100204	H1100204	H1100204	H1100204	H1100204					
FLEXOR 12 (TR12)				H1100404	H1100404	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204		
FLEXOR R15 (TR15)		H1100404		H1100404	H1100404								
FLEXOR 4SP		H1100404		H1100404	H1100404	H1100404	H1100404	H1100204					
ALFABIOTECH 2000												H1100204	H1100204
ALFABIOTECH 3000									H1100404	H1100404			
ALFABIOTECH 4000								H1100204					
ALFABIOTECH 5000						H1100404	H1100404	H1100204					
ALFABIOTECH 5000+							H1100404						
ALFABIOTECH 6000		H1100404		H1100404	H1100404								
AT3KMT/ST						H1100204	H1100204	H1100204	H1100204				
AT4K-2B					H1100204	H1100204	H1100204						
AT4K-4S				H1100404	H1100404	H1100204	H1100204	H1100204	H1100204				
AT5K-2B			H1100204	H1100204	H1100204	H1100204							
AT5K-4S						H1100404	H1100404						
AT6K-4S		H1100404		H1100404	H1100404								
ALFAJET 400		H1100204	H1100204	H1100204	H1100204								
FLEXOR RIG												H1K00170	
FIRESAFE 5000		H1100404		H1100404	H1100404		H1100404						

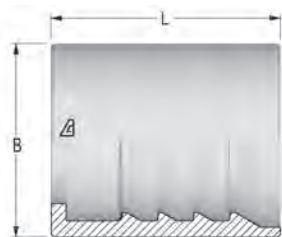
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New Part Numbers

Hose	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-40	-48
	DN 5	DN 6	DN 8	DN 10	DN 12	DN 16	DN 19	DN 25	DN 32	DN 38	DN 51	DN 63	DN 76
	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2	2 1/2	3
FLEXOR 1SN MSHA	AS2	AS2	AS2	AS2	AS2	AS2	AS2	AS2	AS1	AS1	AS1		
FLEXOR 1SN MT	AS2	ASK	ASK	ASK	ASK	ASK	ASK	ASK	AS1	AS1	AS1		
1SN TEMP TECH		ASK		ASK	ASK	ASK	ASK	ASK	AS1	AS1	AS1		
FLEXOR 2SN MSHA	AS2	AS2	AS2	AS2	AS2	AS2	AS2	AS2	AS2	AS2	AS2		
FLEXOR 2SN MT	AS2	AS4	AS4	AS4	AS4	AS4	AS4	AS4	AS4	AS4	AS4		
2SN TEMP TECH		AS4		AS4	AS4	AS4	AS4	AS4	AS4	AS4	AS4		
FLEXOPAK 2 MT		ASK	ASK	ASK	ASK	ASK	ASK	ASK	AS1	AS1	AS2		
FLEXOR 2SC		ASK	ASK	ASK	ASK	ASK	ASK	ASK					
FLEXOPAK 2 LT		ASK	ASK	ASK	ASK	ASK	ASK	ASK					
FLEXOR 12 (TR12)				AS4	AS4	AS2	AS2	AS2	AS2	AS2	AS2		
FLEXOR R15 (TR15)		AS4		AS4	AS4								
FLEXOR 4SP		AS4		AS4	AS4	AS4	AS4	AS2					
ALFABIOTECH 2000												AS2	AS2
ALFABIOTECH 3000									AS4	AS4			
ALFABIOTECH 4000							AS4	AS4					
ALFABIOTECH 5000						AS4	AS4	AS2					
ALFABIOTECH 5000+							AS4						
ALFABIOTECH 6000		AS4		AS4	AS4								
AT3KMT/ST		ASK	ASK	ASK	ASK	ASK	ASK	ASK	AS2				
AT4K-2B					AS2	AS2	AS2						
AT4K-4S				AS4	AS4	AS2	AS2	AS2	AS2				
AT5K-2B			AS2	AS2	AS2	AS2							
AT5K-4S						AS4	AS4						
AT6K-4S		AS4		AS4	AS4								
ALFAJET 400		ASK	ASK	ASK	ASK								
FLEXOR RIG												KS1	
FIRESAFE 5000		AS4		AS4	AS4		AS4						

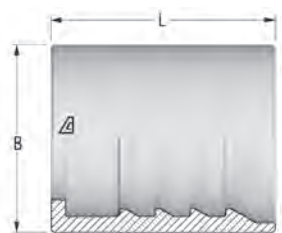
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Standard Skive Ferrules



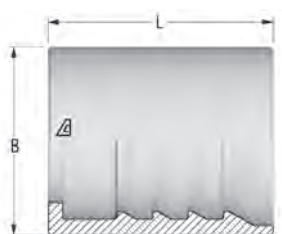
H1100104/AS1

Former Part Number	New Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight Each (lbs.)
			(in.)	(mm)			
H1100104-20	AS1-20	20	1 1/4	31.8	50	43.7	0.37
H1100104-24	AS1-24	24	1 1/2	38.1	57	49.1	0.50
H1100104-32	AS1-32	32	2	50.8	71	63.6	0.84



H1100204/AS2

Former Part Number	New Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight Each (lbs.)
			(in.)	(mm)			
H1100204-03	AS2-03	03	3/16	4.8	19	23.8	0.03
H1100204-04	AS2-04	04	1/4	6.4	21	26.3	0.07
H1100204-05	AS2-05	05	5/16	7.9	22	26.5	0.07
H1100204-06	AS2-06	06	3/8	9.5	25	28.5	0.09
H1100204-08	AS2-08	08	1/2	12.7	29	34.7	0.14
H1100204-10	AS2-10	10	5/8	15.9	32	37.5	0.17
H1100204-12	AS2-12	12	3/4	19.0	36	41.5	0.21
H1100204-16	AS2-16	16	1	25.4	45	47.7	0.37
H1100204-20	AS2-20	20	1 1/4	31.8	58	54.6	0.88
H1100204-24	AS2-24	24	1 1/2	38.1	67	61.0	1.08
H1100204-32	AS2-32	32	2	50.8	82	75.1	1.76



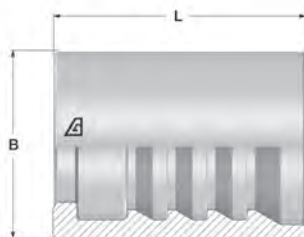
H1100404/AS4

Former Part Number	New Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight Each (lbs.)
			(in.)	(mm)			
H1100404-04	AS4-04	04	1/4	6.4	22	26.3	0.07
H1100404-06	AS4-06	06	3/8	9.5	25	28.5	0.09
H1100404-08	AS4-08	08	1/2	12.7	29	34.7	0.14
H1100404-10	AS4-10	10	5/8	15.9	32	37.5	0.17
H1100404-12	AS4-12	12	3/4	19.0	36	41.5	0.21
H1100404-16	AS4-16	16	1	25.4	45	47.7	0.37
H1100404-20	AS4-20	20	1 1/4	31.8	58	54.6	0.88
H1100404-24	AS4-24	24	1 1/2	38.1	67	61.0	1.08
H1100404-32	AS4-32	32	2	50.8	82	75.1	1.76

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Standard Skive Ferrules

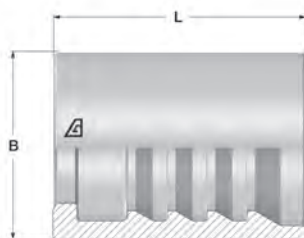
NEW



H1100SK1/ASK

Former Part Number	New Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight Each (lbs.)
			(in.)	(mm)			
H1100SK1-04	ASK-04	04	1/4	6.4	19	25.5	0.05
H1100SK1-05	ASK-05	05	5/16	7.9	21	25.5	0.06
H1100SK1-06	ASK-06	06	3/8	9.5	23	27.5	0.07
H1100SK1-08	ASK-08	08	1/2	12.7	27	33.5	0.11
H1100SK1-10	ASK-10	10	5/8	15.9	29	36.5	0.13
H1100SK1-12	ASK-12	12	3/4	19.0	33	40.0	0.16
H1100SK1-16	ASK-16	16	1	25.4	41	46.5	0.25

NEW



H1K00170/KS1

Former Part Number	New Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight Each (lbs.)
			(in.)	(mm)			
H1K00170-48	KS1-48	48	3	76.2	117	135	4.35

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Hose Ferrule Part Number Configurator



HOSES

C121

C122

C12A

C124

C126

TWO PIECE FERRULES
(STANDARD & INTERLOCK)

H12 STANDARD
INSERTS

H14 AND H1T
INTERLOCK INSERTS

CRIMPERS

TECHNICAL
INFORMATION

Ferrule Type				Ferrule Size			Optional for Stainless Steel Fittings	
☐	☐	☐	☐	☐	☐	☐	☐	☐
1	2	3	4	5	6	7	8	9

No Skive Ferrule

AF1 – H1200AD1
AF2 – H1200AD2
AF3 – H1200203
AF4 – H1200204
AFB – H1200202
AFP – H1200TP0
AFQ – H1200101
AFT – H2200TF0
AFX – H1200TX2
PFR – PiranhaFlex

Skive Ferrule

ASK – H1100SK1
AS1 – H1100104
AS2 – H1100204
AS4 – H1100404
KS1 – H1K00170

Interlock Ferrule

XF1 – H1400301
XF2 – H1400200
XF3 – H1400300
ZF1 – H1T00600

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

Fitting Configuration Chart – Ferrule Type Explanation

AF1 – H1200AD1 – Two piece non-skive ferrule for use with "A" insert on single wire braided and compact hydraulic hoses, Flexor 1 (TR1SN, TR1MT, TR1SNTT), Flexopak 2 (TF2MT, TF2ST, TF2LT), Alfatech 3000 (AT3KMT, AT3KST), Alfajet 210 (TAJ3BK/BU) and Alfajet 400 (TAJ5BK/BU).

AF2 – H1200AD2 – Two piece non-skive ferrule for use with "A" insert on double wire braided hydraulic hoses, Flexor 2 (TR2SN, TR2MT, TR2SNTT).

AF3 – H1200203 – Two piece non-skive ferrule for use with "A" insert on single wire braided hydraulic hose Flexor 5 (TR5, TR5TT) and textile braided Flexor 4 (TR4XF).

AF4 – H1200204 – Two piece non-skive ferrule for use with "A" insert on spiral wire reinforced hoses Flexor 12 (TR12).

AFB – H1200202 – Two piece non-skive ferrule for use with "A" insert on double wire braided hydraulic hoses, Flexor 2 (TR2SN) While supplies last.

AFP – H1200TP0 – Two piece non-skive ferrule for use with "A" insert on R17 hydraulic hose, AT3KMT and AT3KST in sizes 3/16" through 1/2" size.

AFQ – H1200101 – Two piece non-skive ferrule for use with "A" insert on single wire braided compact hydraulic hose Alfatech 3000 (AT3KMT, AT3KST), Alfajet 210 (TAJ3BK/BU) while supplies last.

AFT – H2200TF0 – Two piece non-skive stainless steel ferrule for use with "A" insert on stainless braided PTFE hose (TR14TB).

AFX – H1200TX2 – Two piece non-skive ferrule for use with "A" insert on textile braided hydraulic hose Flexor 3 (TR3) and Flexor 4 (TR4XF).

PFR – PiranhaFlex – Two piece non-skive ferrule for use with "A" insert on all PiranhaFlex hydraulic hoses, R7, R8 and R18 styles.

ASK – H1100SK1 – Two piece skive ferrule for use with "A" insert on single wire braided and compact hydraulic hoses, Flexor 1 (TR1SN, TR1MT, TR1SNTT), Flexopak 2 (TF2MT, TF2ST, TF2LT), Alfatech 3000 (AT3KMT, AT3KST), Alfajet 210 (TAJ3BK/BU) and Alfajet 400 (TAJ5BK/BU).

AS1 – H1100104 – Two piece skive ferrule for use with "A" insert on Flexor 1 (TR1SN, TR1MT, TR1SNTT) 1 1/4" thru 2" and Flexopak 2 (TF2MT) 1 1/4" thru 1 1/2".

AS2 – H1100204 – Two piece skive ferrule for use with "A" insert on one and two wire braided hoses (TR1SN/MT/TT, TR2SN/MT/TT), Flexopak 2 (TF2MT/ST) and some spiral wire reinforced hoses while supplies last.

AS4 – H1100404 – Two piece skive ferrule for use with "A" insert on two wire braided hose (TR2SN/MT/TT) and spiral reinforced hoses (TR12, 4SP, R15) and Alfabiotech.

KS1 – H1K00170 – Two piece skive ferrule for use with "K" insert on Flexor Rig-48

XF1 – H1400301 – Two piece Interlock ferrule for use with "X" Interlock insert on spiral wire reinforced hoses

XF2 – H1400200 – Two piece Interlock ferrule for use with "X" Interlock insert on spiral wire reinforced hoses

XF3 – H1400300 – Two Piece Interlock ferrule for use with "X" Interlock insert on spiral wire reinforced hoses to be able to crimp them using the KD200 crimp system.

ZF1 – H1T00600 – Two piece Interlock ferrule for use with "Z" Interlock insert on Alfatech 6000-32, 2" size.

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Ferrule Selection Chart

No Skive Ferrule For Standard Fittings



Former Part Numbers

Hose	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-40	-48
	DN 5	DN 6	DN 8	DN 10	DN 12	DN 16	DN 19	DN 25	DN 32	DN 38	DN 51	DN 63	DN76
	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2	2 1/2	3
FLEXOR 6 (TR6)		H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204					
		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
FLEXOR 2TE (T2TE)		H1100204	H1100204	H1100204	H1100204	H1100204	H1100204	H1100204					
		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100404	H1100SK1	H1100SK1					
FLEXOR 3 (R3)		H1200203	H1200203	H1200203	H1200203	H1200203	H1200203	H1200203	H1200203	H1200203	H1200203		
		H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2		
FLEXOR 1SN MSHA	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1		
FLEXOR 1SN MT	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1		
1SN TEMP TECH		H1200AD1		H1200AD1	H1200AD1		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1		
FLEXOR 2SN MSHA	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2		
FLEXOR 2SN MT	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2		
2SN TEMP TECH		H1200AD2		H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2		
FLEXOPAK 2 MT		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200TX2	
FLEXOPAK 2SC		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
FLEXOPAK 2 LT		H1200AD1		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
FLEXOR 12 (TR12)				H1200204	H1200204	H1200204	H1200204	H1200204	H1200204	H1200204			
ALFABIOTECH 2000												H1200204	H1200204
ALFABIOTECH 3000									H1200204	H1200204			
ALFABIOTECH 4000							H1200204	H1200204	H1200204				
ALFABIOTECH 5000						H1200204							
ALFABIOTECH 6000				H1200204	H1200204								
AT3K-1B/2B		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
AT4K-2B					H1200AD1	H1200AD1							
AT4K-4S				H1200204	H1200204	H1200204	H1200204	H1200204					
AT5K-2B		H1200AD1	H1200AD1	H1200AD1									
ALFAJET 210		H1200TP0	H1200TP0	H1200TP0	H1200TP0								
ALFAJET 400		H1200AD1	H1200AD1	H1200AD1	H1200AD1								
FLEXOR 4 (TR4XF)							H1200203	H1200203	H1200203	H1200203	H1200203	H1200203	
							H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	
PIRANHAFLEX R7	PFR-03	PFR-04	PFR7-05	PFR-06	PFR-08		PFR-12						
PIRANHAFLEX R8		PFR-04		PFR-06	PFR-08		PFR-12						
PIRANHAFLEX R18		PFR-04		PFR-06	PFR-08								
PTFE (TR14TB)	H2200TF0	H2200TF0	H2200TF0	H2200TF0	H2200TF0	H2200TF0	H2200TF0	H2200TF0					

Hose	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32
	DN 5	DN 6	DN 8	DN 10	DN 12	DN 16	DN 22	DN 29	DN 35	DN 46
	3/16	1/4	5/16	13/32	1/2	5/8	7/8	1 1/8	1 3/8	1 13/16
FLEXOR 5 (R5)	H1200203-03	H1200203-04	H1200203-05	H1200203-06	H1200203-08	H1200203-10	H1200203-12	H1200203-16	H1200203-20	H1100104-32

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Ferrule Selection Chart

No Skive Ferrule For Standard Fittings

New Part Numbers

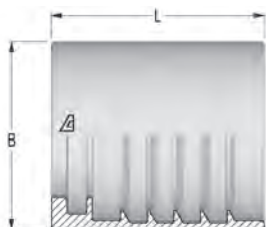
Hose	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-40	-48
	DN 5	DN 6	DN 8	DN 10	DN 12	DN 16	DN 19	DN 25	DN 32	DN 38	DN 51	DN 63	DN76
	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2	2 1/2	3
FLEXOR 6 (TR6)		AS2	AS2	AS2	AS2	AS2	AS2	AS2					
		ASK	ASK	ASK	ASK	ASK	ASK	ASK					
FLEXOR 2TE (T2TE)		AS2	AS2	AS2	AS2	AS2	AS2	AS2					
		ASK	ASK	ASK	ASK	AS4	ASK	ASK					
FLEXOR 3 (R3)		AF3	AF3	AF3	AF3	AF3	AF3	AF3	AF3	AF3	AF3		
		AFX	AFX	AFX	AFX	AFX	AFX	AFX	AFX	AFX	AFX		
FLEXOR 1SN MSHA	AF1	AF1	AF1	AF1	AF1	AF1	AF1	AF1	AF1	AF1	AF1		
FLEXOR 1SN MT	AF1	AF1	AF1	AF1	AF1	AF1	AF1	AF1	AF1	AF1	AF1		
1SN TEMP TECH		AF1		AF1	AF1		AF1	AF1	AF1	AF1	AF1		
FLEXOR 2SN MSHA	AF2	AF2	AF2	AF2	AF2	AF2	AF2	AF2	AF2	AF2	AF2		
FLEXOR 2SN MT	AF2	AF2	AF2	AF2	AF2	AF2	AF2	AF2	AF2	AF2	AF2		
2SN TEMP TECH		AF2		AF2	AF2	AF2	AF2	AF2	AF2	AF2	AF2		
FLEXOPAK 2 MT		AF1	AF1	AF1	AF1	AF1	AF1	AF1	AF1	AF1	AF1	AFX	
FLEXOPAK 2SC		AF1	AF1	AF1	AF1	AF1	AF1	AF1					
FLEXOPAK 2 LT		AF1		AF1	AF1	AF1	AF1	AF1					
FLEXOR 12 (TR12)				AF4	AF4	AF4	AF4	AF4	AF4	AF4			
ALFABIOTECH 2000												AF4	AF4
ALFABIOTECH 3000									AF4	AF4			
ALFABIOTECH 4000							AF4	AF4	AF4				
ALFABIOTECH 5000						AF4							
ALFABIOTECH 6000				AF4	AF4								
AT3K-1B/2B		AF1	AF1	AF1	AF1	AF1	AF1	AF1					
AT4K-2B					AF1	AF1							
AT4K-4S				AF4	AF4	AF4	AF4	AF4					
AT5K-2B		AF1	AF1	AF1									
ALFAJET 210		AFQ	AFQ	AFQ	AFQ								
ALFAJET 400		AF1	AF1	AF1	AF1								
FLEXOR 4 (TR4XF)							AF3	AF3	AF3	AF3	AF3	AF3	
							TX2	TX2	TX2	TX2	TX2	TX2	
PIRANHAFLEX R7	PFR-03	PFR-04	PFR7-05	PFR-06	PFR-08		PFR-12						
PIRANHAFLEX R8		PFR-04		PFR-06	PFR-08		PFR-12						
PIRANHAFLEX R18		PFR-04		PFR-06	PFR-08								
PTFE (TR14TB)	AFT	AFT	AFT	AFT	AFT	AFT	AFT	AFT					

Hose											
	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	
	DN 5	DN 6	DN 8	DN 10	DN 12	DN 16	DN 22	DN 29	DN 35	DN 46	
	3/16	1/4	5/16	13/32	1/2	5/8	7/8	1 1/8	1 3/8	1 13/16	
FLEXOR 5 (R5)		AF3-03	AF3-04	AF3-05	AF3-06	AF3-08	AF3-10	AF3-12	AF3-16	AF3-20	AS1-32

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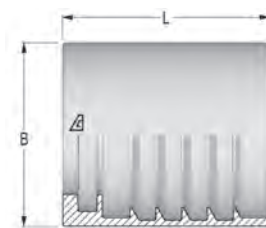
Standard Non-Skive Ferrules

H1200AD1/AF1



Former Part Number	New Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight Each (lbs.)
			(in.)	(mm)			
H1200AD1-04	AF1-04	04	1/4	6.4	22	24.7	0.06
H1200AD1-05	AF1-05	05	5/16	7.9	23	24.7	0.07
H1200AD1-06	AF1-06	06	3/8	9.5	26	29.7	0.10
H1200AD1-08	AF1-08	08	1/2	12.7	29	30.5	0.11
H1200AD1-10	AF1-10	10	5/8	15.9	32	30.5	0.12
H1200AD1-12	AF1-12	12	3/4	19.0	36	36.0	0.17
H1200AD1-16	AF1-16	16	1	25.4	44	36.7	0.24
H1200AD1-20	AF1-20	20	1 1/4	31.8	53	48.6	0.40
H1200AD1-24	AF1-24	24	1 1/2	38.1	61	48.6	0.50
H1200AD1-32	AF1-32	32	2	50.8	75	48.6	0.70

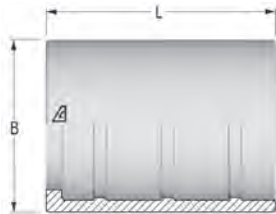
H1200AD2/AF2



Former Part Number	New Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight Each (lbs.)
			(in.)	(mm)			
H1200AD2-03	AF2-03	03	3/16	4.8	21	24.0	0.06
H1200AD2-04	AF2-04	04	1/4	6.4	23	24.7	0.07
H1200AD2-05	AF2-05	05	5/16	7.9	25	24.7	0.08
H1200AD2-06	AF2-06	06	3/8	9.5	27	29.7	0.10
H1200AD2-08	AF2-08	08	1/2	12.7	30	30.5	0.12
H1200AD2-10	AF2-10	10	5/8	15.9	33	30.5	0.13
H1200AD2-12	AF2-12	12	3/4	19.0	37	36.0	0.18
H1200AD2-16	AF2-16	16	1	25.4	45	36.7	0.24
H1200AD2-20	AF2-20	20	1 1/4	31.8	56	48.6	0.45
H1200AD2-24	AF2-24	24	1 1/2	38.1	64	48.5	0.55
H1200AD2-32	AF2-32	32	2	50.8	76	48.6	0.70

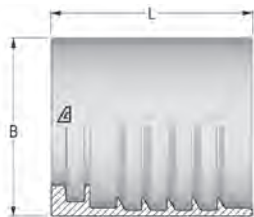
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Standard Non-Skive Ferrules



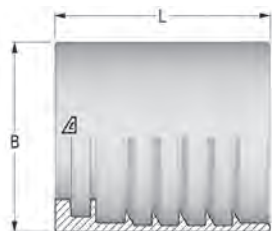
H1200203/AF3

Former Part Number	New Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight Each (lbs.)
			(in.)	(mm)			
H1200203-03Z	AF3-03	03	3/16	4.8	20.0	24.3	0.03
H1200203-04	AF3-04	04	1/4	6.4	22.0	26.3	0.07
H1200203-05	AF3-05	05	5/16	7.9	25.0	26.3	0.07
H1200203-06	AF3-06	06	3/8	9.5	25.0	27.2	0.09
H1200203-08	AF3-08	08	1/2	12.7	29.0	32.8	0.14
H1200203-10	AF3-10	10	5/8	15.9	34.0	35.6	0.17
H1200203-12	AF3-12	12	3/4	19.0	38.0	38.6	0.21
H1200203-16	AF3-16	16	1	25.4	50.0	45.3	0.37
H1200203-20	AF3-20	20	1 1/4	31.8	51.0	49.0	0.88
H1200203-24	AF3-24	24	1 1/2	38.1	60.3	56.0	1.08
H1200203-32	AF3-32	32	2	50.8	76.1	69.0	1.76
H1200203-40	AF3-40	40	2 1/2	63.0	88.9	85.0	2.14



H1200204/AF4

Former Part Number	New Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight Each (lbs.)
			(in.)	(mm)			
H1200204-06	AF4-06	06	3/8	9.5	30	28.0	0.11
H1200204-08	AF4-08	08	1/2	12.7	34	33.9	0.16
H1200204-10	AF4-10	10	5/8	15.9	38	36.6	0.20
H1200204-12	AF4-12	12	3/4	19.0	42	39.5	0.28
H1200204-16	AF4-16	16	1	25.4	50	45.4	0.51
H1200204-20	AF4-20	20	1 1/4	31.8	62	50.1	0.55



H1200202/AFB

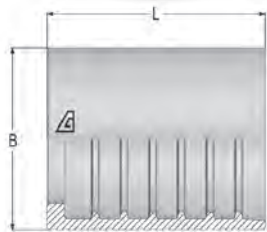
Former Part Number	New Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)
			(in.)	(mm)		
H1200202-10	AFB-10	10	5/8	15.9	34	35.6
H1200202-12	AFB-12	12	3/4	19.0	38	38.6
H1200202-16	AFB-16	16	1	25.4	50	45.3
H1200202-20	AFB-20	20	1 1/4	31.8	61	50.2

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Standard Non-Skive Ferrules

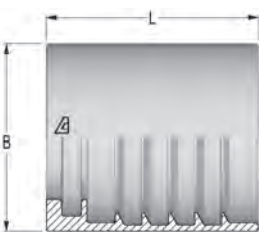
NEW

H1200TP0/AFP



Former Part Number	New Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight Each (lbs.)
			(in.)	(mm)			
H1200TP0-03	AFP-03	03	3/16	4.8	15	22.0	0.02
H1200TP0-04	AFP-04	04	1/4	6.4	17	26.5	0.03
H1200TP0-05	AFP-05	05	5/16	7.9	19	26.5	0.04
H1200TP0-06	AFP-06	06	3/8	9.5	22	26.5	0.05
H1200TP0-08	AFP-08	08	1/2	12.7	26	30.5	0.07

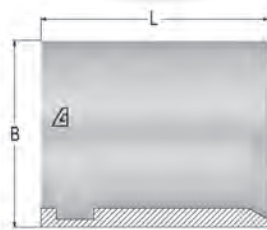
H1200101/AFQ



Former Part Number	New Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight Each (lbs.)
			(in.)	(mm)			
H1200101-04	AFQ-04	4	1/4	6.4	19	26.3	0.05
H1200101-05	AFQ-05	5	5/16	7.9	21	26.3	0.06
H1200101-06	AFQ-06	6	3/8	9.5	23	27.2	0.06
H1200101-08	AFQ-08	8	1/2	12.7	27	32.8	0.07

NEW

H2200TF0/AFT



Former Part Number	New Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight Each (lbs.)
			(in.)	(mm)			
H2200TF0-03	AFT-03	03	3/16	4.8	14.0	20	0.02
H2200TF0-04	AFT-04	04	1/4	6.4	15.0	25	0.03
H2200TF0-05	AFT-05	05	5/16	7.9	17.2	25	0.04
H2200TF0-06	AFT-06	06	3/8	9.5	22.0	25	0.07
H2200TF0-08	AFT-08	08	1/2	12.7	25.0	30	0.08
H2200TF0-10	AFT-10	10	5/8	15.9	30.0	33	0.11
H2200TF0-12	AFT-12	12	3/4	19.0	35.0	37	0.15
H2200TF0-16	AFT-16	16	1	25.4	42.0	45	0.26
H2200TF0-20	AFT-20	20	1 1/4	31.8	50.0	48	0.34
H2200TF0-24	AFT-24	24	1 1/2	38.1	57.0	58	0.48
H2200TF0-32	AFT-32	32	2	50.8	73.0	67	0.73

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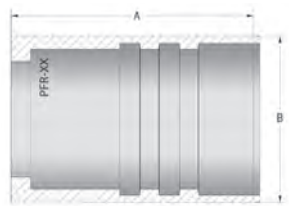
Standard Non-Skive Ferrules

NEW



H1200TX2/AFX

Former Part Number	New Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight Each (lbs.)
			(in.)	(mm)			
H1200TX2-03	AFX-03	03	3/16	4.8	21	21.5	0.05
H1200TX2-04	AFX-04	04	1/4	6.4	23	24.7	0.07
H1200TX2-05	AFX-05	05	5/16	7.9	25	24.7	0.08
H1200TX2-06	AFX-06	06	3/8	9.5	27	29.7	0.10
H1200TX2-08	AFX-08	08	1/2	12.7	30	30.5	0.11
H1200TX2-10	AFX-10	10	5/8	15.9	34	35.5	0.15
H1200TX2-12	AFX-12	12	3/4	19.0	38	36.0	0.17
H1200TX2-16	AFX-16	16	1	25.4	48	42.5	0.28
H1200TX2-20	AFX-20	20	1 1/4	31.8	53	56.5	0.42
H1200TX2-24	AFX-24	24	1 1/2	38.1	60	61.5	0.45
H1200TX2-32	AFX-32	32	2	50.8	76	73.5	0.82
H1200TX2-40	AFX-40	40	2 1/2	63.5	89	85.0	1.29



PFR - Piranhaflex™

Former Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight Each (lbs.)
		(in.)	(mm)			
PFR-03	03	3/16	4.7	14.9	24.0	0.03
PFR-04	04	1/4	6.4	17.0	29.0	0.04
PFR7-05*	05	5/16	7.9	19.0	29.0	0.04
PFR-06	06	3/8	9.5	21.0	31.0	0.05
PFR-08	08	1/2	12.7	25.4	36.0	0.06
PFR-12	12	3/4	19.05	31.8	45.2	0.11

* PFR7-05 ferrules are to be used only with SAE 100R7 hoses!

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Fitting Configuration Chart



HOSES

C121

C122

C12A

C124

C126

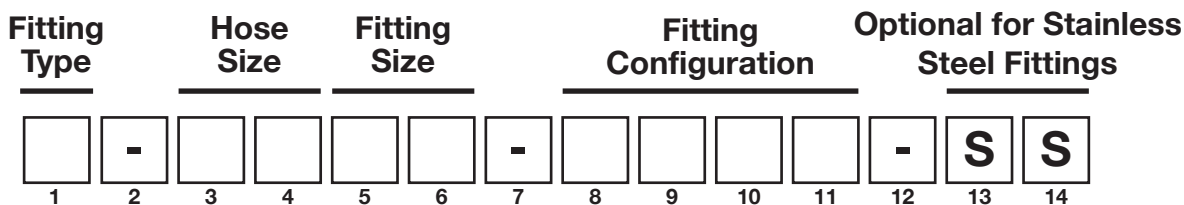
TWO PIECE FERRULES
(STANDARD & INTERLOCK)

H12 STANDARD
INSERTS

H14 AND H1T
INTERLOCK INSERTS

CRIMPERS

TECHNICAL
INFORMATION



1-Piece

B – C12A
Q – C121
C – C122
D – C124
F – C126
H – C12H
M – C12R

2-Piece

A – H12
X – H14
Z – H1T
K – H1K

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-14 or 7/8"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-14 or 7/8"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

Fitting Configuration Chart – Fitting Type Explanation

B – C12A – One piece non-skive crimp fitting for all braided hoses up to 1" ID.
Q – C121 – One piece non-skive crimp fitting for Alfatech 3000 (AT3KMT) hose and Alfajet 210 (TAJ3BK/TAJ3BU) 1/4" ID thru 1/2" ID only, while supplies last.

C – C122 – One piece non-skive crimp fitting for braided hose except Alfatech 3000 (AT3KMT) and Alfajet 210 (TAJ3BK/TAJ3BU) 1/4" ID thru 1/2" ID only, while supplies last.

D – C124 – One piece non-skive crimp fitting for SAE 100R1 and 100R2 wire braided hose and 4 wire spiral hose Flexor 12 (TR12) 1/2" ID thru 2" ID and Alfabiotech 3000 1 1/4" thru 2".

F – C126 – One piece non-skive crimp fitting for Flexor 12 (TR12), 4SH (T4SH), Flexor 13 (TR13), Alfatech 5000, Alfabiotech 5000 3/4" thru 1 1/2" and Alfabiotech 6000 3/4" thru 1 1/4".

H – C12H – One piece non-skive crimp fitting for 4SH (T4SH) in 2" size only.

M – C12R – One Piece non-skive crimp fitting for Flexor 13 (TR13) in 2" size only.

A – H12 – Two piece insert for all wire and textile braided hoses, thermoplastic hose, Flexor 4 and PTFE hose 3/16" thru 2" and Flexor 12 (TR12) 1/2" thru 1 1/2" along with some spiral wire reinforced hoses thru 1 1/2".

X – H14 – Two piece Interlock insert for spiral wire reinforced hoses. Requires both internal and external skiving and a XF1 or XF2 Interlock ferrule to perform properly.

Z – H1T – Two piece Interlock insert for Alfatech 6000 (AT6K) in 2" size only. Requires both internal and external skiving and a ZF1 Interlock ferrule to perform properly.

K – H1K – Two piece insert for Flexor Rig 48, 3" ID size only. Requires a KS1 skive ferrule to perform properly.

TYPE	SUFFIX	DESCRIPTION
NPTF	FNPR	Female National Pipe Rigid
	FPMS	Female Pipe Straight Mechanical Swivel
	FNPS	Female National Pipe Swivel
	MNPT	Male Pipe NPTF
	MNPS	Male National Pipe Swivel
	MPS9	Male Pipe Swivel 90 Degree
JIC	FJSH	Female JIC Single Hex Swivel
	FJDH	Female JIC Double Hex Swivel
	FJ45	Female JIC 45 Degree Swivel
	FJ9L	Female JIC 90 Degree Long Swivel
	FJ9M	Female JIC 90 Degree Medium Swivel
	FJ9S	Female JIC 90 Degree Short Swivel
	MJIC	Male JIC
SAE	FSAE	Female SAE Swivel
	MORB	Male O-Ring Boss
	MOBS	Male O-Ring Boss Swivel
	MBS9	Male O-Ring Boss Swivel 90 Degree
	MIFL	Male Inverted Flare
	MIF4	Male Inverted Flare 45 Degree
	MIF9	Male Inverted Flare 90 Degree
	MSAE	Male SAE
ORFS	FOFS	Female O-Ring Face Seal Swivel
	F030	Female O-Ring Face Seal 30 Degree Medium Swivel
	F045	Female O-Ring Face Seal 45 Degree Swivel
	F09L	Female O-Ring Face Seal 90 Degree Long Swivel
	F09M	Female O-Ring Face Seal 90 Degree Medium Swivel
	F09S	Female O-Ring Face Seal 90 Degree Short Swivel
	MOFS	Male O-Ring Face Seal
SAE Flange Code 61	C61S	Code 61 Flange Straight
	C612	Code 61 Flange 22 Degree
	C613	Code 61 Flange 30 Degree
	C614	Code 61 Flange 45 Degree
	C616	Code 61 Flange 60 Degree
	C619	Code 61 Flange 90 Degree
SAE Flange Code 62	C62S	Code 62 Flange Straight
	C624	Code 62 Flange 45 Degree
	C629	Code 62 Flange 90 Degree

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Fitting Type	Hose Size	Fitting Size
1 2	3 4	5 6 7
1-Piece B – C12A Q – C121 C – C122 D – C124 F – C126 H – C12H M – C12R	2-Piece A – H12 X – H14 Z – H1T K – H1K	3-Piece -02 or 1/8" -03 or 3/16" -04 or 1/4" -05 or 5/16" -06 or 3/8" -08 or 1/2" -10 or 5/8" -12 or 3/4" -14 or 7/8" -16 or 1" -20 or 1 1/4" -24 or 1 1/2" -32 or 2" -40 or 2 1/2" -48 or 3"

Fitting Configuration Chart – Fitting Type Explanation

B – C12A – One piece non-skive crimp fitting for all braided hoses up to 1" ID.

Q – C121 – One piece non-skive crimp fitting for Alfatech 3000 (AT3KMT) hose and AlfaJet 210 (TAJ3BK/TAJ3BU) 1/4" ID thru 1/2" ID only, while supplies last.

C – C122 – One piece non-skive crimp fitting for braided hose except Alfatech 3000 (AT3KMT) and Alfajet 210 (TAJ3BK/TAJ3BU) ¼" ID thru ½" ID only, while supplies last.

D – C124 – One piece non-skive crimp fitting for SAE 100R1 and 100R2 wire braided hose and 4 wire spiral hose Flexor 12 (TR12) ½" ID thru 2" ID and Alfabiotech 3000 1 ¼" thru 2".

F – C126 – One piece non-skive crimp fitting for Flexor 12 (TR12), 4SH (T4SH), Flexor 13 (TR13), Alfatech 5000, Alfabiotech 5000 ¾" thru 1 ½" and Alfabiotech 6000 ¾" thru 1 ¼".

H – C12H – One piece non-skive crimp fitting for 4SH (T4SH) in 2" size only.

M – C12R – One Piece non-skive crimp fitting for Flexor 13 (TR13) in 2" size only.

A – H12 – Two piece insert for all wire and textile braided hoses, thermoplastic hose, Flexor 4 and PTFE hose 3/16" thru 2" and Flexor 12 (TR12) 1/2" thru 1 1/2" along with some spiral wire reinforced hoses thru 1 1/2".

X – H14 – Two piece Interlock insert for spiral wire reinforced hoses. Requires both internal and external skiving and a XF1 or XF2 Interlock ferrule to perform properly.

Z – H1T – Two piece Interlock insert for Alfatech 6000 (AT6K) in 2" size only. Requires both internal and external skiving and a ZF1 Interlock ferrule to perform properly.

K – H1K – Two piece insert for Flexor Rig 48, 3" ID size only. Requires a KS1 skive ferrule to perform properly.

Fitting Configuration				Optional for Stainless Steel Fittings		
						
8	9	10	11	12	13	14
Type		Suffix	Description			
Caterpillar Flange	CFLS	CAT Flange Straight				
	CFL4	CAT Flange 45 Degree				
	CFL9	CAT Flange 90 Degree				
BSP	BBAN	BSP Banjo				
	FBC9	Female BSP Compact 90 Degree Swivel				
	FBFS	Female BSP Flat Seat Swivel				
	FBP0	Female British Pipe Parallel With O-Ring Swivel				
	FBO4	Female British Pipe Parallel With O-Ring 45 Degree Swivel				
	FBO9	Female British Pipe Parallel With O-Ring 90 Degree Swivel				
	FBPP	Female British Pipe Parallel Swivel				
	FBP4	Female British Pipe Parallel 45 Degree Swivel				
	FBP9	Female British Pipe Parallel 90 Degree Swivel				
	MBFS	Male BSP Flat Seat				
	MBPP	Male British Pipe Parallel				
MBPT	Male British Pipe Tapered/JIS					
Metric	FMFS	Female Metric French Swivel				
	FMOH	Female Metric O-Ring Heavy Swivel				
	FM4H	Female Metric O-Ring 45 Degree Heavy Swivel				
	FM9H	Female Metric O-Ring 90 Degree Heavy Swivel				
	FMOL	Female Metric O-Ring Light Swivel				
	FM4L	Female Metric O-Ring 45 Degree Light Swivel				
	FM6S	Female Metric 60 Degree Seat DIN 3863				
	FM9L	Female Metric O-Ring 90 Degree Light Swivel				
	MBAN	Metric Banjo				
	MMFR	Male Metric French Solid				
	MMSH	Male Metric Solid-Heavy				
	MMSL	Male Metric Solid-Light				
	MSPS	Metric Stand Pipe Straight				
	MSP4	Metric Stand Pipe 45 Degree				
	MSP9	Metric Stand Pipe 90 Degree				
JIS	FJIS	Female JIS Swivel				
	FJS4	Female JIS 45 Degree Swivel				
	FJS9	Female JIS 90 Degree Swivel				
	FKOS	Female Komatsu Swivel				
	KFST	Komatsu Flange Straight				
	KF45	Komatsu Flange 45 Degree				
	KF90	Komatsu Flange 90 Degree				
API	FHUN	Female Hammer Union				
	MAPI	Male API Pipe Thread				
	MHUN	Male Hammer Union				
Other	BTTF	Bite Type Tube Fitting				
	FGRT	Female Grease Tap				
	FPWS	Female Pressure Washer Swivel				
	HMEN	Hose Mender				

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Hose Ferrule Part Number Configurator



HOSES

C121

C122

C12A

C124

C126

TWO PIECE FERRULES
(STANDARD & INTERLOCK)

H12 STANDARD
INSERTS

H14 AND H1T
INTERLOCK INSERTS

CRIMPERS

TECHNICAL
INFORMATION

Ferrule Type				Ferrule Size			Optional for Stainless Steel Fittings	
☐	☐	☐	☐	☐	☐	☐	☐	☐
1	2	3	4	5	6	7	8	9

No Skive Ferrule

AF1 – H1200AD1
AF2 – H1200AD2
AF3 – H1200203
AF4 – H1200204
AFB – H1200202
AFP – H1200TP0
AFQ – H1200101
AFT – H2200TF0
AFX – H1200TX2
PFR – PiranhaFlex

Skive Ferrule

ASK – H1100SK1
AS1 – H1100104
AS2 – H1100204
AS4 – H1100404
KS1 – H1K00170

Interlock Ferrule

XF1 – H1400301
XF2 – H1400200
XF3 – H1400300
ZF1 – H1T00600

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

Fitting Configuration Chart – Ferrule Type Explanation

AF1 – H1200AD1 – Two piece non-skive ferrule for use with "A" insert on single wire braided and compact hydraulic hoses, Flexor 1 (TR1SN, TR1MT, TR1SNTT), Flexopak 2 (TF2MT, TF2ST, TF2LT), Alfatech 3000 (AT3KMT, AT3KST), Alfajet 210 (TAJ3BK/BU) and Alfajet 400 (TAJ5BK/BU).

AF2 – H1200AD2 – Two piece non-skive ferrule for use with "A" insert on double wire braided hydraulic hoses, Flexor 2 (TR2SN, TR2MT, TR2SNTT).

AF3 – H1200203 – Two piece non-skive ferrule for use with "A" insert on single wire braided hydraulic hose Flexor 5 (TR5, TR5TT) and textile braided Flexor 4 (TR4XF).

AF4 – H1200204 – Two piece non-skive ferrule for use with "A" insert on spiral wire reinforced hoses Flexor 12 (TR12).

AFB – H1200202 – Two piece non-skive ferrule for use with "A" insert on double wire braided hydraulic hoses, Flexor 2 (TR2SN) While supplies last.

AFP – H1200TP0 – Two piece non-skive ferrule for use with "A" insert on R17 hydraulic hose, AT3KMT and AT3KST in sizes 3/16" through 1/2" size.

AFQ – H1200101 – Two piece non-skive ferrule for use with "A" insert on single wire braided compact hydraulic hose Alfatech 3000 (AT3KMT, AT3KST), Alfajet 210 (TAJ3BK/BU) while supplies last.

AFT – H2200TF0 – Two piece non-skive stainless steel ferrule for use with "A" insert on stainless braided PTFE hose (TR14TB).

AFX – H1200TX2 – Two piece non-skive ferrule for use with "A" insert on textile braided hydraulic hose Flexor 3 (TR3) and Flexor 4 (TR4XF).

PFR – PiranhaFlex – Two piece non-skive ferrule for use with "A" insert on all PiranhaFlex hydraulic hoses, R7, R8 and R18 styles.

ASK – H1100SK1 – Two piece skive ferrule for use with "A" insert on single wire braided and compact hydraulic hoses, Flexor 1 (TR1SN, TR1MT, TR1SNTT), Flexopak 2 (TF2MT, TF2ST, TF2LT), Alfatech 3000 (AT3KMT, AT3KST), Alfajet 210 (TAJ3BK/BU) and Alfajet 400 (TAJ5BK/BU).

AS1 – H1100104 – Two piece skive ferrule for use with "A" insert on Flexor 1 (TR1SN, TR1MT, TR1SNTT) 1 1/4" thru 2" and Flexopak 2 (TF2MT) 1 1/4" thru 1 1/2".

AS2 – H1100204 – Two piece skive ferrule for use with "A" insert on one and two wire braided hoses (TR1SN/MT/TT, TR2SN/MT/TT), Flexopak 2 (TF2MT/ST) and some spiral wire reinforced hoses while supplies last.

AS4 – H1100404 – Two piece skive ferrule for use with "A" insert on two wire braided hose (TR2SN/MT/TT) and spiral reinforced hoses (TR12, 4SP, R15) and Alfabiotech.

KS1 – H1K00170 – Two piece skive ferrule for use with "K" insert on Flexor Rig-48.

XF1 – H1400301 – Two piece Interlock ferrule for use with "X" Interlock insert on spiral wire reinforced hoses.

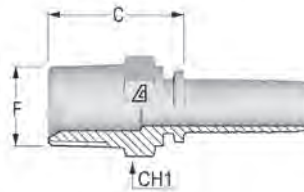
XF2 – H1400200 – Two piece Interlock ferrule for use with "X" Interlock insert on spiral wire reinforced hoses.

XF3 – H1400300 – Two Piece Interlock ferrule for use with "X" Interlock insert on spiral wire reinforced hoses to be able to crimp them using the KD200 crimp system.

ZF1 – H1T00600 – Two piece Interlock ferrule for use with "Z" Interlock insert on Alfatech 6000-32, 2" size.

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Inserts for two-piece fittings – US End Configurations

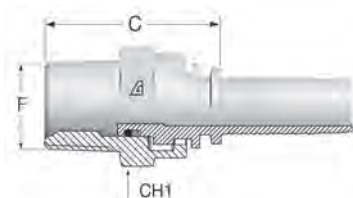


NPTF Solid Male 60° Seat

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
H1212810-0302	A-0302-MNPT	03	3/16	4.8	02	1/8-27	19.8	12	0.03
H1212810-0402	A-0402-MNPT	04	1/4	6.4	02	1/8-27	21.3	14	0.04
H1212810-0404	A-0404-MNPT	04	1/4	6.4	04	1/4-18	26.8	17	0.06
H1212810-0406	A-0406-MNPT	04	1/4	6.4	06	3/8-18	27.8	19	0.08
H1212810-0504	A-0504-MNPT	05	5/16	7.9	04	1/4-18	26.8	17	0.07
H1212810-0506	A-0506-MNPT	05	5/16	7.9	06	3/8-18	27.8	19	0.11
H1212810-0604	A-0604-MNPT	06	3/8	9.5	04	1/4-18	26.8	17	0.07
H1212810-0606	A-0606-MNPT	06	3/8	9.5	06	3/8-18	27.8	19	0.09
H1212810-0608	A-0608-MNPT	06	3/8	9.5	08	1/2-14	31.3	22	0.15
H1212810-0806	A-0806-MNPT	08	1/2	12.7	06	3/8-18	28.6	19	0.12
H1212810-0808	A-0808-MNPT	08	1/2	12.7	08	1/2-14	32.1	22	0.17
H1212810-0812	A-0812-MNPT	08	1/2	12.7	12	3/4-14	34.1	27	0.22
H1212810-1012	A-1012-MNPT	10	5/8	15.9	12	3/4-14	34.1	27	0.24
H1212810-1212	A-1212-MNPT	12	3/4	19.0	12	3/4-14	34.6	27	0.26
H1212810-1216	A-1216-MNPT	12	3/4	19.0	16	1-11 1/2	43.6	36	0.46
H1212810-1416	A-1416-MNPT	14	7/8	22.0	16	1-11 1/2	43.6	36	0.48
H1212810-1612	A-1612-MNPT	16	1	25.4	12	3/4-14	34.6	27	0.51
H1212810-1616	A-1616-MNPT	16	1	25.4	16	1-11 1/2	44.4	36	0.53
H1212810-1620	A-1620-MNPT	16	1	25.4	20	1 1/4-11 1/2	47.4	46	1.10
H1212810-1820	A-1820-MNPT	18	1 1/8	29.0	20	1 1/4-11 1/2	49.0	46	1.10
H1212810-2020	A-2020-MNPT	20	1 1/4	31.8	20	1 1/4-11 1/2	49.0	46	0.90
H1212810-2224	A-2224-MNPT	22	1 3/8	35.0	24	1 1/2-11 1/2	50.5	50	1.10
H1212810-2424	A-2424-MNPT	24	1 1/2	38.1	24	1 1/2-11 1/2	50.5	50	1.10
H1212810-2932	A-2932-MNPT	29	1 13/16	46.0	24	2-11 1/2	54.0	65	2.86
H1212810-3232	A-3232-MNPT	32	2	50.8	32	2-11 1/2	54.2	65	2.87

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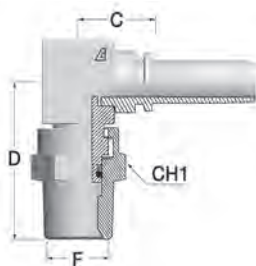
Inserts for two-piece fittings – US End Configurations



NPTF Male Swivel 60° Seat

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
H1212811-0404	A-0404-MNPS	04	1/4	6.4	04	1/4-18	37.6	17	0.09
H1212811-0406	A-0406-MNPS	04	1/4	6.4	06	3/8-18	39.5	22	0.11
H1212811-0604	A-0604-MNPS	06	3/8	9.5	04	1/4-18	39.6	17	0.12
H1212811-0606	A-0606-MNPS	06	3/8	9.5	06	3/8-18	37.5	22	0.15
H1212811-0608	A-0608-MNPS	06	3/8	9.5	08	1/2-14	38.0	25	0.16
H1212811-0806	A-0806-MNPS	08	1/2	12.7	06	3/8-18	38.3	22	0.17
H1212811-0808	A-0808-MNPS	08	1/2	12.7	08	1/2-14	42.3	25	0.25
H1212811-1212	A-1212-MNPS	12	3/4	19.0	12	3/4-14	50.1	32	0.31
H1212811-1616	A-1616-MNPS	16	1	25.4	16	1-11 1/2	57.9	41	0.63

NEW

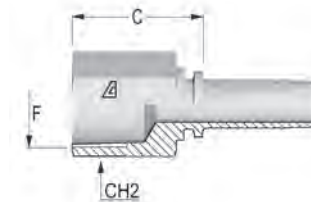


90° Compact NPTF Male Swivel 60° Seat

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1212881-0404	A-0404-MPS9	04	1/4	6.4	04	1/4-18	17	39	17	0.12
H1212881-0406	A-0406-MPS9	04	1/4	6.4	06	3/8-18	19	39	22	0.13
H1212881-0604	A-0604-MPS9	06	3/8	9.5	04	1/4-18	17	41	17	0.15
H1212881-0606	A-0606-MPS9	06	3/8	9.5	06	3/8-18	20	41	22	0.17
H1212881-0608	A-0608-MPS9	06	3/8	9.5	08	1/2-14	22	41	25	0.20
H1212881-0806	A-0806-MPS9	08	1/2	12.7	06	3/8-18	23	48	22	0.25
H1212881-0808	A-0808-MPS9	08	1/2	12.7	08	1/2-14	23	48	25	0.29
H1212881-1212	A-1212-MPS9	12	3/4	19.0	12	3/4-14	27	61	32	0.35
H1212881-1616	A-1616-MPS9	16	1	25.4	16	1-11 1/2	35	70	41	0.70

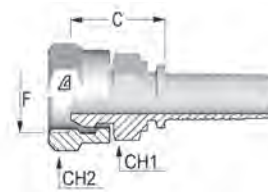
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Inserts for two-piece fittings – US End Configurations



NPTF Solid Female Rigid

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
H1222810-0404	A-0404-FNPR	04	1/4	6.4	04	1/4-18	27.8	19	0.10
H1222810-0606	A-0606-FNPR	06	3/8	9.5	06	3/8-18	28.8	22	0.17
H1222810-0808	A-0808-FNPR	08	1/2	12.7	08	1/2-14	35.6	25	0.20
H1222810-1212	A-1212-FNPR	12	3/4	19.0	12	3/4-14	38.1	32	0.35
H1222810-1616	A-1616-FNPR	16	1	25.4	16	1-11 1/2	44.9	38	0.57



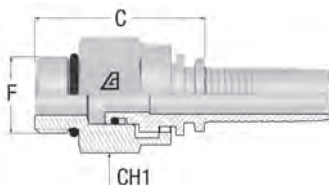
NPSM Female Swivel 60° Seat

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1227311-0404	A-0404-FPMS	04	1/4	6.4	04	1/4-18	24.3	17	19	0.09
H1227311-0606	A-0606-FPMS	06	3/8	9.5	06	3/8-18	24.8	19	22	0.14
H1227311-0808	A-0808-FPMS	08	1/2	12.7	08	1/2-14	26.6	22	27	0.22
H1227311-1212	A-1212-FPMS	12	3/4	19.0	12	3/4-14	28.6	30	32	0.26
H1227311-1616	A-1616-FPMS	16	1	25.4	16	1-11 1/2	35.4	36	38	0.37

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Inserts for two-piece fittings – US End Configurations

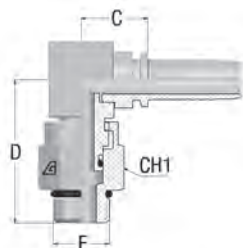
NEW



SAE Male O-Ring Boss Swivel

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
H1213011-0404	A-0404-MOBS	04	1/4	6.4	04	7/16-20	17.0	17	0.13
H1213011-0405	A-0405-MOBS	04	1/4	6.4	05	1/2-20	17.0	17	0.14
H1213011-0406	A-0406-MOBS	04	1/4	6.4	06	9/16-18	17.5	19	0.15
H1213011-0606	A-0606-MOBS	06	3/8	9.5	06	9/16-18	20.5	22	0.16
H1213011-0608	A-0608-MOBS	06	3/8	9.5	08	3/4-16	22.0	22	0.18
H1213011-0808	A-0808-MOBS	08	1/2	12.7	08	3/4-16	23.0	25	0.19
H1213011-0810	A-0810-MOBS	08	1/2	12.7	10	7/8-14	23.0	25	0.27
H1213011-1212	A-1212-MOBS	12	3/4	19.0	12	1 1/16-12	49.6	32	0.33
H1213011-1616	A-1616-MOBS	16	1	25.4	16	1 5/16-12	54.1	38	0.65

NEW

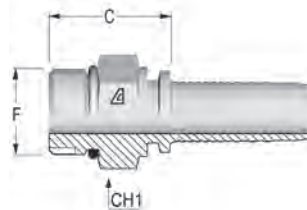


90° Compact SAE Male Swivel O-Ring Boss

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1213081-0404	A-0404-MBS9	04	1/4	6.4	04	7/16-20	17	34	17	0.14
H1213081-0405	A-0405-MBS9	04	1/4	6.4	05	1/2-20	17	34	17	0.17
H1213081-0406	A-0406-MBS9	04	1/4	6.4	06	9/16-18	18	36	19	0.18
H1213081-0606	A-0606-MBS9	06	3/8	9.5	06	9/16-18	19	40	22	0.18
H1213081-0608	A-0608-MBS9	06	3/8	9.5	08	3/4-16	22	44	25	0.19
H1213081-0808	A-0808-MBS9	08	1/2	12.7	08	3/4-16	23	47	25	0.22
H1213081-0810	A-0810-MBS9	08	1/2	12.7	10	7/8-14	23	49	25	0.26
H1213081-1012	A-1012-MBS9	10	5/8	15.9	12	1 1/16-12	27	60	32	0.33
H1213081-1212	A-1212-MBS9	12	3/4	19.0	12	1 1/16-12	27	61	32	0.37
H1213081-1616	A-1616-MBS9	16	1	25.4	16	1 5/16-12	34	66	38	0.70

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Inserts for two-piece fittings – US End Configurations

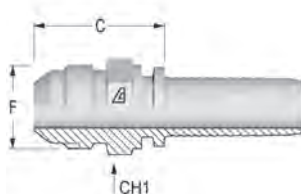


SAE Solid Male O-Ring Boss

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
H1213010-0404	A-0404-MORB	04	1/4	6.4	04	7/16-20	20.3	14	0.04
H1213010-0405	A-0405-MORB	04	1/4	6.4	05	1/2-20	21.3	16	0.05
H1213010-0406	A-0406-MORB	04	1/4	6.4	06	9/16-18	22.3	17	0.06
H1213010-0606	A-0606-MORB	06	3/8	9.5	06	9/16-18	23.3	19	0.08
H1213010-0608	A-0608-MORB	06	3/8	9.5	08	3/4-16	24.3	22	0.12
H1213010-0610	A-0610-MORB	06	3/8	9.5	10	7/8-14	26.8	27	0.16
H1213010-0808	A-0808-MORB	08	1/2	12.7	08	3/4-16	25.1	22	0.14
H1213010-0810	A-0810-MORB	08	1/2	12.7	10	7/8-14	27.6	27	0.19
H1213010-0812	A-0812-MORB	08	1/2	12.7	12	1 1/16-12	32.1	32	0.28
H1213010-1008	A-1008-MORB	10	5/8	15.8	08	3/4-16	27.6	22	0.23
H1213010-1010	A-1010-MORB	10	5/8	15.8	10	7/8-14	27.6	24	0.25
H1213010-1012	A-1012-MORB	10	5/8	15.8	12	1 1/16-12	32.1	32	0.27
H1213010-1210	A-1210-MORB	12	3/4	19.0	10	7/8-14	28.1	27	0.24
H1213010-1212	A-1212-MORB	12	3/4	19.0	12	1 1/16-12	32.6	32	0.31
H1213010-1216	A-1216-MORB	12	3/4	19.0	16	1 5/16-12	35.7	38	0.44
H1213010-1616	A-1616-MORB	16	1	25.4	16	1 5/16-12	35.4	38	0.55

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Inserts for two-piece fittings – US End Configurations

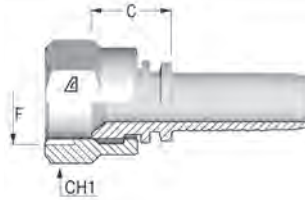


JIC Solid Male 37° Seat

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
H1212510-0404	A-0404-MJIC	04	1/4	6.4	04	7/16-20	25.3	12	0.04
H1212510-0405	A-0405-MJIC	04	1/4	6.4	05	1/2-20	25.3	14	0.05
H1212510-0406	A-0406-MJIC	04	1/4	6.4	06	9/16-18	26.3	17	0.06
H1212510-0505	A-0505-MJIC	05	5/16	7.9	05	1/2-20	25.3	14	0.05
H1212510-0506	A-0506-MJIC	05	5/16	7.9	06	9/16-18	26.3	17	0.07
H1212510-0606	A-0606-MJIC	06	3/8	9.5	06	9/16-18	26.3	17	0.07
H1212510-0608	A-0608-MJIC	06	3/8	9.5	08	3/4-16	29.8	19	0.11
H1212510-0808	A-0808-MJIC	08	1/2	12.7	08	3/4-16	29.8	19	0.12
H1212510-0810	A-0810-MJIC	08	1/2	12.7	10	7/8-14	34.6	24	0.19
H1212510-0812	A-0812-MJIC	08	1/2	12.7	12	1 1/16-12	37.1	27	0.23
H1212510-1010	A-1010-MJIC	10	5/8	15.9	10	7/8-14	34.6	24	0.18
H1212510-1012	A-1012-MJIC	10	5/8	15.9	12	1 1/16-12	37.1	27	0.23
H1212510-1212	A-1212-MJIC	12	3/4	19.0	12	1 1/16-12	37.6	27	0.27
H1212510-1214	A-1214-MJIC	12	3/4	19.0	14	1 3/16-12	40.1	32	0.36
H1212510-1216	A-1216-MJIC	12	3/4	19.0	16	1 5/16-12	42.6	36	0.54
H1212510-1616	A-1616-MJIC	16	1	25.4	16	1 5/16-12	43.4	36	0.51
H1212510-1620	A-1620-MJIC	16	1	25.4	20	1 5/8-12	46.9	46	0.77
H1212510-2020	A-2020-MJIC	20	1 1/4	31.8	20	1 5/8-12	48.5	46	0.89
H1212510-2024	A-2024-MJIC	20	1 1/4	31.8	24	1 7/8-12	52.5	50	1.13
H1212510-2424	A-2424-MJIC	24	1 1/2	38.1	24	1 7/8-12	52.5	50	1.29
H1212510-3232	A-3232-MJIC	32	2	50.8	32	2 1/2-12	52.0	65	3.97

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Inserts for two-piece fittings – US End Configurations

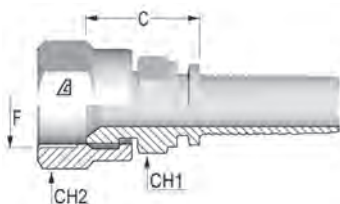


JIC Female 37° Seat

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
H1222511-0304	A-0304-FJSH	03	3/16	4.8	04	7/16-20	14.3	16	0.04
H1222511-0404	A-0404-FJSH	04	1/4	6.4	04	7/16-20	14.6	16	0.04
H1222511-0405	A-0405-FJSH	04	1/4	6.4	05	1/2-20	15.3	17	0.06
H1222511-0406	A-0406-FJSH	04	1/4	6.4	06	9/16-18	15.3	19	0.07
H1222511-0505	A-0505-FJSH	05	5/16	7.9	05	1/2-20	15.3	17	0.07
H1222511-0506	A-0506-FJSH	05	5/16	7.9	06	9/16-18	15.3	19	0.08
H1222511-0606	A-0606-FJSH	06	3/8	9.5	06	9/16-18	15.3	19	0.08
H1222511-0608	A-0608-FJSH	06	3/8	9.5	08	3/4-16	17.8	25	0.14
H1222511-0808	A-0808-FJSH	08	1/2	12.7	08	3/4-16	18.6	25	0.16
H1222511-0810	A-0810-FJSH	08	1/2	12.7	10	7/8-14	19.6	27	0.19
H1222511-0812	A-0812-FJSH	08	1/2	12.7	12	1 1/16-12	22.1	32	0.25
H1222511-1010	A-1010-FJSH	10	5/8	15.9	10	7/8-14	19.6	27	0.21
H1222511-1012	A-1012-FJSH	10	5/8	15.9	12	1 1/16-12	20.1	32	0.26
H1222511-1210	A-1210-FJSH	12	3/4	19.0	10	7/8-14	20.0	27	0.28
H1222511-1212	A-1212-FJSH	12	3/4	19.0	12	1 1/16-12	20.0	32	0.28
H1222511-1214	A-1214-FJSH	12	3/4	19.0	14	1 3/16-12	20.0	36	0.33
H1222511-1216	A-1216-FJSH	12	3/4	19.0	16	1 5/16-12	22.1	38	0.38
H1222511-1616	A-1616-FJSH	16	1	25.4	16	1 5/16-12	23.9	38	0.46
H1222512-1620	A-1620-FJSH	16	1	25.4	20	1 5/8-12	26.5	50	0.88
H1222512-2020	A-2020-FJSH	20	1 1/4	31.8	20	1 5/8-12	28.1	50	0.96
H1222512-2024	A-2024-FJSH	20	1 1/4	31.8	24	1 7/8-12	30.4	55	1.18
H1222512-2424	A-2424-FJSH	24	1 1/2	38.1	24	1 7/8-12	31.4	55	1.24
H1222512-3232	A-3232-FJSH	32	2	50.8	32	2 1/2-12	32.0	70	2.19

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Inserts for two-piece fittings – US End Configurations

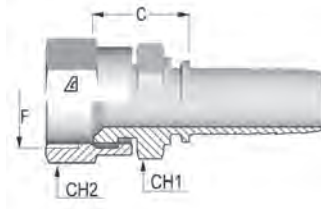


JIC Female 37° Seat – Double Hex

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1226511-0304	A-0304-FJDH	03	3/16	4.8	04	7/16-20	18.1	12	16	0.05
H1226511-0404	A-0404-FJDH	04	1/4	6.4	04	7/16-20	19.6	14	16	0.06
H1226511-0405	A-0405-FJDH	04	1/4	6.4	05	1/2-20	20.3	14	17	0.07
H1226511-0406	A-0406-FJDH	04	1/4	6.4	06	9/16-18	20.3	14	19	0.09
H1226511-0506	A-0506-FJDH	05	5/16	7.9	06	9/16-18	20.3	14	19	0.08
H1226511-0604	A-0604-FJDH	06	3/8	9.5	04	7/16-20	20.6	17	16	0.08
H1226511-0605	A-0605-FJDH	06	3/8	9.5	05	1/2-20	21.3	16	17	0.90
H1226511-0606	A-0606-FJDH	06	3/8	9.5	06	9/16-18	21.3	17	19	0.10
H1226511-0608	A-0608-FJDH	06	3/8	9.5	08	3/4-16	24.8	19	25	0.17
H1226511-0610	A-0610-FJDH	06	3/8	9.5	10	7/8-14	25.8	22	27	0.20
H1226511-0806	A-0806-FJDH	08	1/2	12.7	06	9/16-18	23.1	19	19	0.15
H1226511-0808	A-0808-FJDH	08	1/2	12.7	08	3/4-16	25.6	19	25	0.20
H1226511-0810	A-0810-FJDH	08	1/2	12.7	10	7/8-14	26.6	22	27	0.22
H1226511-0812	A-0812-FJDH	08	1/2	12.7	12	1 1/16-12	28.1	25	32	0.30
H1226511-1008	A-1008-FJDH	10	5/8	15.9	08	3/4-16	26.6	24	25	0.30
H1226511-1010	A-1010-FJDH	10	5/8	15.9	10	7/8-14	27.6	24	27	0.27
H1226511-1012	A-1012-FJDH	10	5/8	15.9	12	1 1/16-12	28.1	25	32	0.32
H1226511-1210	A-1210-FJDH	12	3/4	19.0	10	7/8-14	28.1	27	32	0.31
H1226511-1212	A-1212-FJDH	12	3/4	19.0	12	1 1/16-12	28.6	27	32	0.35
H1226511-1214	A-1214-FJDH	12	3/4	19.0	14	1 3/16-12	29.9	32	36	0.44
H1226511-1216	A-1216-FJDH	12	3/4	19.0	16	1 5/16-12	32.1	32	38	0.49
H1226511-1416	A-1416-FJDH	14	7/8	22.2	16	1 5/16-12	32.1	32	38	0.46
H1226511-1612	A-1612-FJDH	16	1	25.4	12	1 1/16-12	31.4	32	32	0.55
H1226511-1616	A-1616-FJDH	16	1	25.4	16	1 5/16-12	32.9	32	38	0.62
H1226512-1820	A-1820-FJDH	18	1 1/8	29.0	20	1 5/8-12	37.5	41	50	0.63
H1226512-2020	A-2020-FJDH	20	1 1/4	31.8	20	1 5/8-12	39.1	41	50	0.77
H1226512-2224	A-2224-FJDH	22	1 3/8	35.0	24	1 7/8-12	43.4	50	55	0.79
H1226512-2424	A-2424-FJDH	24	1 1/2	38.1	24	1 7/8-12	43.4	50	55	1.98
H1226512-2932	A-2932-FJDH	29	1 13/16	46.0	32	2 1/2-12	49.0	65	70	2.31
H1226512-3232	A-3232-FJDH	32	2	50.8	32	2 1/2-12	49.0	65	70	3.09

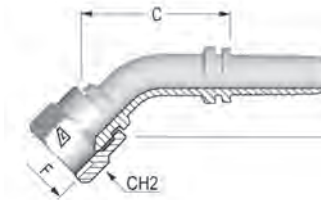
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Inserts for two-piece fittings – US End Configurations



SAE Female 45° Seat – Double Hex

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1226611-0606	A-0606-FSAE	06	3/8	9.5	06	5/8-18	22.3	19	22	0.14
H1226611-1212	A-1212-FSAE	12	3/4	19.0	12	1 1/16-14	29.6	27	32	0.35

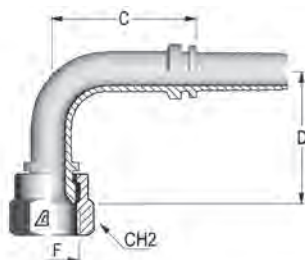


45° JIC Female Swivel 37° Seat Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1222541-0404	A-0404-FJ45	04	1/4	6.4	04	7/16-20	36.6	10.0	16	0.08
H1222541-0405	A-0405-FJ45	04	1/4	6.4	05	1/2-20	37.2	12.0	17	0.08
H1222541-0406	A-0406-FJ45	04	1/4	6.4	06	9/16-18	39.4	11.0	19	0.10
H1222541-0506	A-0506-FJ45	05	5/16	7.9	06	9/16-18	42.8	12.0	19	0.13
H1222541-0606	A-0606-FJ45	06	3/8	9.5	06	9/16-18	46.3	11.0	19	0.13
H1222541-0608	A-0608-FJ45	06	3/8	9.5	08	3/4-16	47.2	15.0	25	0.19
H1222541-0808	A-0808-FJ45	08	1/2	12.7	08	3/4-16	51.6	15.0	25	0.23
H1222541-0810	A-0810-FJ45	08	1/2	12.7	10	7/8-14	50.7	16.0	27	0.27
H1222541-0812	A-0812-FJ45	08	1/2	12.7	12	1 1/16-12	57.0	21.0	32	0.39
H1222541-1010	A-1010-FJ45	10	5/8	15.9	10	7/8-14	62.2	19.0	27	0.39
H1222541-1012	A-1012-FJ45	10	5/8	15.9	12	1 1/16-12	68.6	21.0	32	0.39
H1222541-1212	A-1212-FJ45	12	3/4	19.0	12	1 1/16-12	67.5	21.0	32	0.62
H1222541-1214	A-1214-FJ45	12	3/4	19.0	14	1 3/16-12	67.6	23.0	36	0.51
H1222541-1216	A-1216-FJ45	12	3/4	19.0	16	1 5/16-12	71.4	26.0	38	0.62
H1222541-1616	A-1616-FJ45	16	1	25.4	16	1 5/16-12	79.5	24.0	38	0.88
H1222542-1620	A-1620-FJ45	16	1	25.4	20	1 5/8-12	81.9	37.0	50	1.28
H1222542-2020	A-2020-FJ45	20	1 1/4	31.8	20	1 5/8-12	97.1	37.0	50	1.56
H1222542-2024	A-2024-FJ45	20	1 1/4	31.8	24	1 7/8-12	107.0	39.5	55	1.74
H1222542-2424	A-2424-FJ45	24	1 1/2	38.1	24	1 7/8-12	112.7	43.0	55	2.09
H1222542-3232	A-3232-FJ45	32	2	50.8	32	2 1/2-12	159.9	67.0	70	2.21

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Inserts for two-piece fittings – US End Configurations

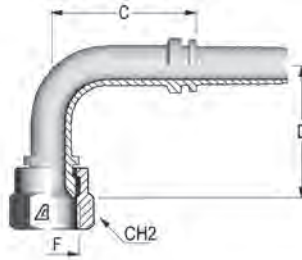


90° JIC Female Swivel 37° Seat Short Drop Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1222591-0304S	A-0304-FJ9S	03	3/16	4.8	04	7/16-20	26.7	21.0	16	0.08
H1222591-0404S	A-0404-FJ9S	04	1/4	6.4	04	7/16-20	27.0	21.0	16	0.08
H1222591-0405S	A-0405-FJ9S	04	1/4	6.4	05	1/2-20	26.5	23.5	17	0.10
H1222591-0406S	A-0406-FJ9S	04	1/4	6.4	06	9/16-18	31.0	23.0	19	0.10
H1222591-0506S	A-0506-FJ9S	05	5/16	7.9	06	9/16-18	42.7	23.0	19	0.12
H1222591-0606S	A-0606-FJ9S	06	3/8	9.5	06	9/16-18	42.3	23.0	19	0.13
H1222591-0608S	A-0608-FJ9S	06	3/8	9.5	08	3/4-16	48.8	29.0	25	0.20
H1222591-0808S	A-0808-FJ9S	08	1/2	12.7	08	3/4-16	46.4	29.0	25	0.25
H1222591-0810S	A-0810-FJ9S	08	1/2	12.7	10	7/8-14	45.8	32.0	27	0.28
H1222591-0812S	A-0812-FJ9S	08	1/2	12.7	12	1 1/16-12	37.3	46.0	32	0.38
H1222591-1010S	A-1010-FJ9S	10	5/8	15.9	10	7/8-14	36.5	32.0	27	0.41
H1222591-1012S	A-1012-FJ9S	10	5/8	15.9	12	1 1/16-12	47.9	48.0	32	0.46
H1222591-1212S	A-1212-FJ9S	12	3/4	19.0	12	1 1/16-12	58.2	46.0	32	0.63
H1222591-1214S	A-1214-FJ9S	12	3/4	19.0	14	1 3/16-12	52.4	47.0	36	0.64
H1222591-1216S	A-1216-FJ9S	12	3/4	19.0	16	1 5/16-12	53.6	53.0	38	0.73
H1222591-1616S	A-1616-FJ9S	16	1	25.4	16	1 5/16-12	70.9	56.0	38	0.89

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Inserts for two-piece fittings – US End Configurations

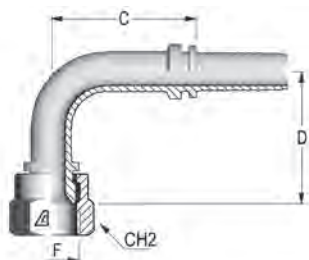


90° JIC Female Swivel 37° Seat Medium Drop Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1222591-0304M	A-0304-FJ9M	03	3/16	4.8	04	7/16-20	33.5	32.0	16	0.10
H1222591-0404M	A-0404-FJ9M	04	1/4	6.4	04	7/16-20	34.2	32.0	16	0.10
H1222591-0405M	A-0405-FJ9M	04	1/4	6.4	05	1/2-20	25.7	30.0	17	0.09
H1222591-0406M	A-0406-FJ9M	04	1/4	6.4	06	9/16-18	28.5	38.0	19	0.11
H1222591-0505M	A-0505-FJ9M	05	5/16	7.9	05	1/2-20	34.7	35.0	17	0.14
H1222591-0506M	A-0506-FJ9M	05	5/16	7.9	06	9/16-18	33.2	35.0	19	0.14
H1222591-0606M	A-0606-FJ9M	06	3/8	9.5	06	9/16-18	31.3	35.0	19	0.15
H1222591-0608M	A-0608-FJ9M	06	3/8	9.5	08	3/4-16	39.5	41.0	25	0.22
H1222591-0808M	A-0808-FJ9M	08	1/2	12.7	08	3/4-16	37.2	40.0	25	0.26
H1222591-0810M	A-0810-FJ9M	08	1/2	12.7	10	7/8-14	43.3	47.0	27	0.30
H1222591-0812M	A-0812-FJ9M	08	1/2	12.7	12	1 1/16-12	47.8	58.0	32	0.40
H1222591-1010M	A-1010-FJ9M	10	5/8	15.9	10	7/8-14	49.4	48.0	27	0.40
H1222591-1012M	A-1012-FJ9M	10	5/8	15.9	12	1 1/16-12	47.9	58.0	32	0.48
H1222591-1212M	A-1212-FJ9M	12	3/4	19.0	12	1 1/16-12	52.4	54.0	32	0.68
H1222591-1214M	A-1214-FJ9M	12	3/4	19.0	14	1 3/16-12	53.5	47.5	36	0.71
H1222591-1216M	A-1216-FJ9M	12	3/4	19.0	16	1 5/16-12	52.6	72.0	38	0.79
H1222591-1616M	A-1616-FJ9M	16	1	25.4	16	1 5/16-12	72.6	71.5	38	1.01
H1222592-1620M	A-1620-FJ9M	16	1	25.4	20	1 5/8-12	72.6	78.5	50	1.48
H1222592-2020M	A-2020-FJ9M	20	1 1/4	31.8	20	1 5/8-12	82.4	78.0	50	1.68
H1222592-2024M	A-2024-FJ9M	20	1 1/4	31.8	24	1 7/8-12	94.0	82.0	55	2.00
H1222592-2424M	A-2424-FJ9M	24	1 1/2	38.1	24	1 7/8-12	95.3	92.0	55	2.38
H1222592-3232M	A-3232-FJ9M	32	2	50.8	32	2 1/2-12	129.5	140.0	70	5.24

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Inserts for two-piece fittings – US End Configurations

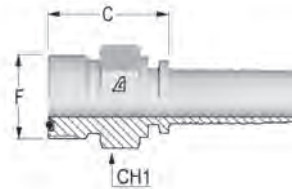


90° JIC Female Swivel 37° Seat Long Drop Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1222591-0304L	A-0304-FJ9L	03	3/16	4.8	04	7/16-20	25.5	46	16	0.12
H1222591-0404L	A-0404-FJ9L	04	1/4	6.4	04	7/16-20	30.8	46	16	0.11
H1222591-0405L	A-0405-FJ9L	04	1/4	6.4	05	1/2-20	31.3	45	17	0.13
H1222591-0406L	A-0406-FJ9L	04	1/4	6.4	06	9/16-18	34.3	54	19	0.17
H1222591-0506L	A-0506-FJ9L	05	5/16	7.9	06	9/16-18	36.2	54	19	0.18
H1222591-0606L	A-0606-FJ9L	06	3/8	9.5	06	9/16-18	43.3	54	19	0.19
H1222591-0608L	A-0608-FJ9L	06	3/8	9.5	08	3/4-16	46.8	64	25	0.24
H1222591-0808L	A-0808-FJ9L	08	1/2	12.7	08	3/4-16	49.9	64	25	0.31
H1222591-0810L	A-0810-FJ9L	08	1/2	12.7	10	7/8-14	37.3	65	27	0.33
H1222591-1010L	A-1010-FJ9L	10	5/8	15.9	10	7/8-14	49.9	65	27	0.44
H1222591-1012L	A-1012-FJ9L	10	5/8	15.9	12	1 1/16-12	49.9	96	32	0.58
H1222591-1212L	A-1212-FJ9L	12	3/4	19.0	12	1 1/16-12	54.1	95	32	0.76
H1222591-1216L	A-1216-FJ9L	12	3/4	19.0	16	1 5/16-12	54.0	114	38	0.93
H1222591-1616L	A-1616-FJ9L	16	1	25.4	16	1 5/16-12	78.6	114	38	1.33

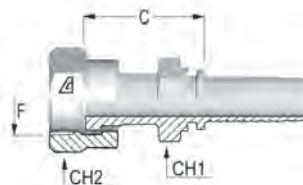
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Inserts for two-piece fittings – US End Configurations



ORFS Solid Male

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
H1212410-0404	A-0404-MOFS	04	1/4	6.4	04	9/16-18	22.3	17	0.07
H1212410-0406	A-0406-MOFS	04	1/4	6.4	06	11/16-16	24.3	19	0.09
H1212410-0606	A-0606-MOFS	06	3/8	9.5	06	11/16-16	24.3	19	0.11
H1212410-0608	A-0608-MOFS	06	3/8	9.5	08	13/16-16	26.3	22	0.13
H1212410-0610	A-0610-MOFS	06	3/8	9.5	10	1-14	29.8	27	0.19
H1212410-0808	A-0808-MOFS	08	1/2	12.7	08	1 3/16-16	27.1	22	0.17
H1212410-0810	A-0810-MOFS	08	1/2	12.7	10	1-14	30.6	27	0.22
H1212410-0812	A-0812-MOFS	08	1/2	12.7	12	1 3/16-12	34.1	32	0.24
H1212410-1010	A-1010-MOFS	10	5/8	15.9	10	1-14	30.6	27	0.23
H1212410-1012	A-1012-MOFS	10	5/8	15.9	12	1 3/16-12	34.1	32	0.30
H1212410-1210	A-1210-MOFS	12	3/4	19.0	10	1-14	31.1	27	0.28
H1212410-1212	A-1212-MOFS	12	3/4	19.0	12	1 3/16-12	34.6	32	0.40
H1212410-1216	A-1216-MOFS	12	3/4	19.0	16	1 7/16-12	38.1	41	0.58
H1212410-1616	A-1616-MOFS	16	1	25.4	16	1 7/16-12	37.9	38	0.60
H1212410-1620	A-1620-MOFS	16	1	25.4	20	1 11/16-12	39.9	46	0.78
H1212410-2020	A-2020-MOFS	20	1 1/4	31.8	20	1 11/16-12	41.5	46	0.90



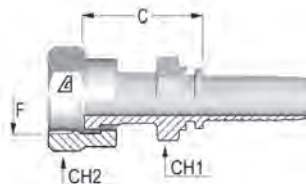
ORFS Female – Double Hex

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1222411-0404	A-0404-FOFS	04	1/4	6.4	04	9/16-18	27.3	14	17	0.08
H1222411-0406	A-0406-FOFS	04	1/4	6.4	06	11/16-16	30.3	17	22	0.13
H1222411-0506	A-0506-FOFS	05	5/16	7.9	06	11/16-16	30.3	17	22	0.13
H1222411-0606	A-0606-FOFS	06	3/8	9.5	06	11/16-16	30.3	17	22	0.14
H1222411-0608	A-0608-FOFS	06	3/8	9.5	08	13/16-16	35.3	22	24	0.21
H1222411-0806	A-0806-FOFS	08	1/2	12.7	06	11/16-16	32.1	19	22	0.22
H1222411-0808	A-0808-FOFS	08	1/2	12.7	08	13/16-16	36.1	22	24	0.22

continued on the next page

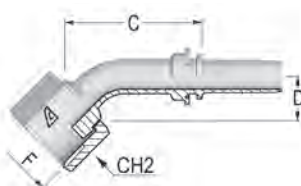
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Inserts for two-piece fittings – US End Configurations



ORFS Female – Double Hex Continued

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1222411-0810	A-0810-FOFS	08	1/2	12.7	10	1-14	39.6	24	30	0.32
H1222411-0812	A-0812-FOFS	08	1/2	12.7	12	1 3/16-12	42.1	30	36	0.32
H1222411-1010	A-1010-FOFS	10	5/8	15.9	10	1-14	39.6	24	30	0.32
H1222411-1012	A-1012-FOFS	10	5/8	15.9	12	1 3/16-12	42.1	30	36	0.50
H1222411-1210	A-1210-FOFS	12	3/4	19.0	10	1-14	40.1	27	30	0.50
H1222411-1212	A-1212-FOFS	12	3/4	19.0	12	1 3/16-12	42.6	30	36	0.50
H1222411-1216	A-1216-FOFS	12	3/4	19.0	16	1 7/16-12	48.6	36	41	0.73
H1222411-1612	A-1612-FOFS	16	1	25.4	12	1 3/16-12	45.4	32	36	0.73
H1222411-1616	A-1616-FOFS	16	1	25.4	16	1 7/16-12	49.4	36	41	0.73
H1222411-1620	A-1620-FOFS	16	1	25.4	20	1 11/16-12	50.4	41	50	0.79
H1222411-2020	A-2020-FOFS	20	1 1/4	31.8	20	1 11/16-12	52.0	41	50	1.10
H1222411-2424	A-2424-FOFS	24	1 1/2	38.1	24	2-12	56.5	50	60	1.76

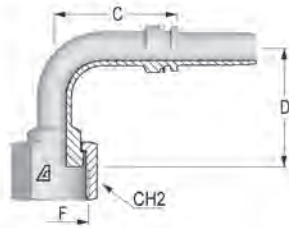


45° ORFS Female Swivel Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1222443-0404M	A-0404-F045	04	1/4	6.4	04	9/16-18	41.1	11.0	17	0.08
H1222443-0406M	A-0406-F045	04	1/4	6.4	06	11/16-16	46.1	11.0	22	0.12
H1222443-0606M	A-0606-F045	06	3/8	9.5	06	11/16-16	47.4	12.0	22	0.14
H1222443-0608M	A-0608-F045	06	3/8	9.5	08	13/16-16	51.2	15.0	24	0.19
H1222441-0808M	A-0808-F045	08	1/2	12.7	08	13/16-16	47.1	16.0	24	0.29
H1222443-0810M	A-0810-F045	08	1/2	12.7	10	1-14	50.4	16.5	30	0.29
H1222443-1010M	A-1010-F045	10	5/8	15.9	10	1-14	57.7	17.0	30	0.33
H1222443-1212M	A-1212-F045	12	3/4	19.0	12	1 3/16-12	63.5	21.0	36	0.60
H1222443-1216M	A-1216-F045	12	3/4	19.0	16	1 7/16-12	70.7	24.0	41	1.01
H1222443-1616M	A-1616-F045	16	1	25.4	16	1 7/16-12	82.4	26.0	41	0.90
H1222443-2020M	A-2020-F045	20	1 1/4	31.8	20	1 11/16-12	97.4	26.0	50	1.25
H1222443-2424M	A-2424-F045	24	1 1/2	38.1	24	2-12	105.5	28.0	60	1.68

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Inserts for two-piece fittings – US End Configurations

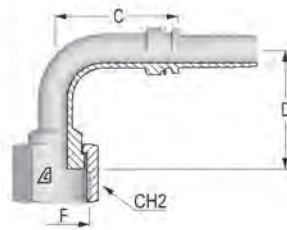


90° ORFS Female Swivel Short Drop Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1222493-0404S	A-0404-F09S	04	1/4	6.4	04	9/16-18	28.5	21.0	17	0.08
H1222493-0406S	A-0406-F09S	04	1/4	6.4	06	11/16-16	32.0	23.0	22	0.13
H1222493-0506S	A-0506-F09S	05	5/16	7.9	06	11/16-16	48.7	26.0	22	0.15
H1222493-0606S	A-0606-F09S	06	3/8	9.5	06	11/16-16	41.8	25.0	22	0.15
H1222493-0608S	A-0608-F09S	06	3/8	9.5	08	13/16-16	41.8	29.0	24	0.19
H1222491-0808S	A-0808-F09S	08	1/2	13.0	08	13/16-16	39.8	29.0	24	0.23
H1222493-0810S	A-0810-F09S	08	1/2	13.0	10	1-14	46.3	32.5	30	0.31
H1222493-0812S	A-0812-F09S	08	1/2	13.0	12	1 3/16-12	56.3	51.0	36	0.37
H1222493-1010S	A-1010-F09S	10	5/8	16.0	10	1-14	52.3	32.5	30	0.37
H1222493-1012S	A-1012-F09S	10	5/8	15.9	12	1 3/16-12	55.4	49.0	36	0.39
H1222493-1212S	A-1212-F09S	12	3/4	19.0	12	1 3/16-12	60.6	51.0	36	0.66
H1222493-1216S	A-1216-F09S	12	3/4	19.0	16	1 7/16-12	61.6	56.0	41	0.84
H1222493-1616S	A-1616-F09S	16	1	25.0	16	1 7/16-12	82.6	58.0	41	1.03
H1222493-1620S	A-1620-F09S	16	1	25.0	20	1 11/16-12	82.6	64.0	50	1.48
H1222493-2020S	A-2020-F09S	20	1 1/4	32.0	20	1 11/16-12	95.0	68.0	50	1.57
H1222493-2424S	A-2424-F09S	24	1 1/2	38.0	24	2-12	101.6	78.0	60	2.18

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Inserts for two-piece fittings – US End Configurations

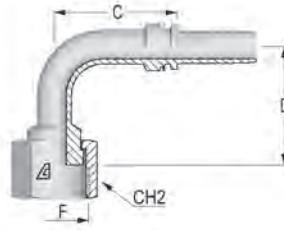


90° ORFS Female Swivel Medium Drop Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1222493-0404M	A-0404-F09M	04	1/4	6.4	04	9/16-18	29.8	32	17	0.10
H1222493-0406M	A-0406-F09M	04	1/4	6.4	06	11/16-16	37.3	38	22	0.15
H1222493-0506M	A-0506-F09M	05	5/16	7.9	06	11/16-16	40.7	34	22	0.18
H1222493-0606M	A-0606-F09M	06	3/8	9.5	06	11/16-16	41.8	38	22	0.16
H1222493-0608M	A-0608-F09M	06	3/8	9.5	08	13/16-16	43.8	41	24	0.22
H1222491-0808M	A-0808-F09M	08	1/2	13.0	08	13/16-16	34.8	42	24	0.25
H1222493-0810M	A-0810-F09M	08	1/2	13.0	10	1-14	48.3	47	30	0.36
H1222493-1010M	A-1010-F09M	10	5/8	16.0	10	1-14	55.4	44	30	0.42
H1222493-1212M	A-1212-F09M	12	3/4	19.0	12	1 3/16-12	61.6	58	36	0.69
H1222493-1216M	A-1216-F09M	12	3/4	19.0	16	1 7/16-12	65.6	71	41	0.88
H1222493-1616M	A-1616-F09M	16	1	25.0	16	1 7/16-12	82.6	66	41	1.08
H1222493-2020M	A-2020-F09M	20	1 1/4	32.0	20	1 11/16-12	97.0	78	50	1.64
H1222493-2424M	A-2424-F09M	24	1 1/2	38.0	24	2-12	107.8	87	60	2.30

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Inserts for two-piece fittings – US End Configurations

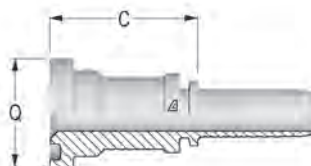


90° ORFS Female Swivel Long Drop Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1222493-0404L	A-0404-F09L	04	1/4	6.4	04	9/16-18	32.8	46	17	0.11
H1222493-0406L	A-0406-F09L	04	1/4	6.4	06	11/16-16	34.8	54	22	0.16
H1222493-0506L	A-0506-F09L	05	5/16	7.9	06	11/16-16	31.5	54	22	0.19
H1222493-0606L	A-0606-F09L	06	3/8	9.5	06	11/16-16	41.8	54	22	0.19
H1222493-0608L	A-0608-F09L	06	3/8	9.5	08	13/16-16	46.8	64	24	0.24
H1222491-0808L	A-0808-F09L	08	1/2	13.0	08	13/16-16	38.3	64	24	0.27
H1222493-0810L	A-0810-F09L	08	1/2	13.0	10	1-14	46.3	70	30	0.39
H1222493-1010L	A-1010-F09L	10	5/8	16.0	10	1-14	55.4	70	30	0.48
H1222493-1012L	A-1012-F09L	10	5/8	15.9	12	1 3/16-12	55.4	96	30	0.41
H1222493-1212L	A-1212-F09L	12	3/4	19.0	12	1 3/16-12	61.6	96	36	0.80
H1222493-1216L	A-1216-F09L	12	3/4	19.0	16	1 7/16-12	61.6	118	41	0.95
H1222493-1616L	A-1616-F09L	16	1	25.0	16	1 7/16-12	82.6	114	41	1.28
H1222493-2020L	A-2020-F09L	20	1 1/4	32.0	20	1 11/16-12	97.0	129	50	1.95
H1222493-2024L	A-2024-F09L	20	1 1/4	32.0	24	2-12	102.0	141	60	1.98
H1222493-2424L	A-2424-F09L	24	1 1/2	38.0	24	2-12	110.8	141	60	2.75

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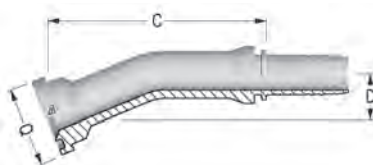
Inserts for two-piece fittings – US End Configurations



For Split Flange Clamps
please refer to page 236.

O-Ring Flange SAE J518 Code 61 Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	Max. WP (psi)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)			
H1243310-0808	A-0808-C61S	08	1/2	12.7	1.19	30.2	41.0	5000	0.25
H1243310-0812	A-0812-C61S	08	1/2	12.7	1.50	38.1	42.0	5000	0.35
H1243310-1212	A-1212-C61S	12	3/4	19.0	1.50	38.1	42.5	5000	0.43
H1243310-1216	A-1216-C61S	12	3/4	19.0	1.75	44.5	50.5	5000	0.56
H1243310-1616	A-1616-C61S	16	1	25.4	1.75	44.5	51.4	5000	0.75
H1243310-1620	A-1620-C61S	16	1	25.4	2.00	50.8	53.9	4000	0.77
H1243310-2020	A-2020-C61S	20	1 1/4	31.8	2.00	50.8	55.5	4000	0.94
H1243310-2024	A-2024-C61S	20	1 1/4	31.8	2.38	60.3	58.5	3000	1.12
H1243310-2424	A-2424-C61S	24	1 1/2	38.1	2.38	60.3	58.5	3000	1.27
H1243310-2432	A-2432-C61S	24	1 1/2	38.1	2.81	71.4	70.0	3000	1.98
H1243310-3232	A-3232-C61S	32	2	50.8	2.81	71.4	70.0	3000	2.05
H1243310-4040	A-4040-C61S	40	2 1/2	63.5	3.31	84.1	117.0	2500	2.30



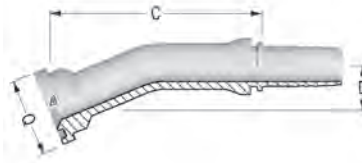
For Split Flange Clamps
please refer to page 236.

22° O-Ring Flange SAE J518 Code 61 Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)			
H1243320-1616	A-1616-C612	16	1	25.4	1.75	44.5	86.4	12.0	1.01
H1243320-2020	A-2020-C612	20	1 1/4	31.8	2.00	50.8	100.6	16.0	1.29
H1243320-2024	A-2024-C612	20	1 1/4	31.8	2.38	60.3	117.0	20.5	1.54
H1243320-2424	A-2424-C612	24	1 1/2	38.1	2.38	60.3	133.5	22.0	1.79

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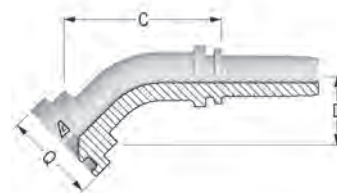
Inserts for two-piece fittings – US End Configurations



For Split Flange Clamps
please refer to page 236.

30° O-Ring Flange SAE J518 Code 61 Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)			
H1243330-1212	A-1212-C613	12	3/4	19.0	1.50	38.1	67.7	12.0	0.62
H1243330-1216	A-1216-C613	12	3/4	19.0	1.75	44.5	70.7	12.0	0.74
H1243330-1616	A-1616-C613	16	1	25.4	1.75	44.5	69.3	12.0	0.84
H1243330-1620	A-1620-C613	16	1	25.4	2.00	50.8	67.1	12.0	0.93
H1243330-2020	A-2020-C613	20	1 1/4	31.8	2.00	50.8	74.3	12.0	1.10
H1243330-2024	A-2024-C613	20	1 1/4	31.8	2.38	60.3	81.5	13.0	1.26
H1243330-2424	A-2424-C613	24	1 1/2	38.1	2.38	60.3	136.0	23.0	1.90
H1243330-2432	A-2432-C613	24	1 1/2	38.1	2.81	71.4	136.9	29.5	2.54



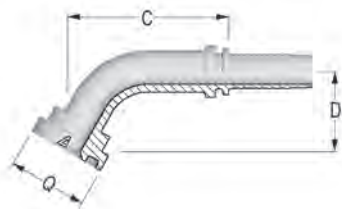
For Split Flange Clamps
please refer to page 236.

45° O-Ring Flange SAE J518 Code 61 Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max WP (psi)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
H1243340-0808	A-0808-C614	08	1/2	12.7	1.19	30.2	43.7	22.0	5000	0.27
H1243340-0812	A-0812-C614	08	1/2	12.7	1.50	38.1	50.4	26.0	5000	0.38
H1243340-1012	A-1012-C614	10	5/8	15.9	1.50	38.1	55.1	26.0	5000	0.40
H1243340-1212	A-1212-C614	12	3/4	19.0	1.50	38.1	63.8	32.0	5000	0.50
H1243340-1216	A-1216-C614	12	3/4	19.0	1.75	44.5	68.0	29.0	5000	0.60
H1243340-1616	A-1616-C614	16	1	25.4	1.75	44.5	72.8	33.5	5000	0.85
H1243340-1620	A-1620-C614	16	1	25.4	2.00	50.8	72.3	36.0	4000	0.92
H1243340-2020	A-2020-C614	20	1 1/4	31.8	2.00	50.8	85.2	37.5	4000	1.13
H1243340-2024	A-2024-C614	20	1 1/4	31.8	2.38	60.3	92.8	40.0	3000	1.27
H1243340-2424	A-2424-C614	24	1 1/2	38.1	2.38	60.3	105.4	48.0	3000	1.32
H1243340-2432	A-2432-C614	24	1 1/2	38.1	2.81	71.4	124.3	55.5	3000	2.65
H1243340-3232	A-3232-C614	32	2	50.8	2.81	71.4	129.5	47.5	3000	3.48
H1243340-4040SL	A-4040-C614	40	2 1/2	63.5	3.31	84.1	162.0	115.0	2500	3.80

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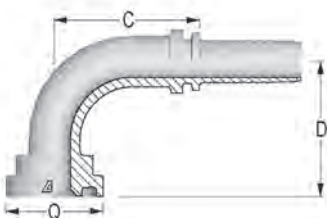
Inserts for two-piece fittings – US End Configurations



For Split Flange Clamps
please refer to page 236.

60° O-Ring Flange SAE J518 Code 61 Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max WP (psi)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
H1243360-1212	A-1212-C616	12	3/4	19.0	1.19	30.2	86.0	37.0	5000	0.29
H1243360-1216	A-1216-C616	12	3/4	19.0	1.75	44.5	102.0	44.0	5000	0.43
H1243360-1616	A-1616-C616	16	1	25.4	1.75	44.5	101.0	47.0	5000	0.55
H1243360-1620	A-1620-C616	16	1	25.4	2.00	50.8	106.5	43.5	5000	0.65
H1243360-2020	A-2020-C616	20	1 1/4	31.8	2.00	50.8	129.5	56.5	5000	0.71
H1243360-2424	A-2424-C616	24	1 1/2	38.1	2.38	60.3	151.0	57.0	3000	2.95
H1243360-3232	A-3232-C616	32	2	50.8	2.81	71.4	164.4	92.0	3000	4.30



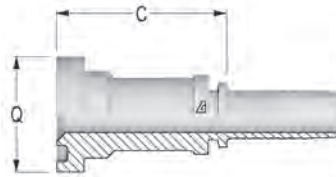
For Split Flange Clamps
please refer to page 236.

90° O-Ring Flange SAE J518 Code 61 Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max WP (psi)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
H1243390-0808	A-0808-C619	08	1/2	12.7	1.19	30.2	45.8	42.0	5000	0.29
H1243390-0812	A-0812-C619	08	1/2	12.7	1.50	38.1	45.3	51.0	5000	0.43
H1243390-1012	A-1012-C619	10	5/8	15.9	1.50	38.1	49.4	51.0	5000	0.55
H1243390-1212	A-1212-C619	12	3/4	19.0	1.50	38.1	57.7	60.0	5000	0.65
H1243390-1216	A-1216-C619	12	3/4	19.0	1.75	44.5	66.2	64.5	5000	0.71
H1243390-1616	A-1616-C619	16	1	25.4	1.75	44.5	70.6	67.0	5000	0.88
H1243390-1620	A-1620-C619	16	1	25.4	2.00	50.8	73.6	71.0	4000	1.02
H1243390-2020	A-2020-C619	20	1 1/4	31.8	2.00	50.8	88.0	84.0	4000	1.30
H1243390-2024	A-2024-C619	20	1 1/4	31.8	2.38	60.3	91.5	87.5	3000	1.48
H1243390-2424	A-2424-C619	24	1 1/2	38.1	2.38	60.3	104.8	91.0	3000	1.26
H1243390-2432	A-2432-C619	24	1 1/2	38.1	2.81	71.4	104.8	115.0	3000	2.66
H1243390-3232	A-3232-C619	32	2	50.8	2.81	71.4	127.2	130.0	3000	4.30
H1243390-4040SL	A-4040-C619	40	2 1/2	63.5	3.31	84.1	137.0	125.0	2500	4.80

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

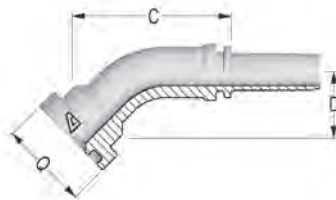
Inserts for two-piece fittings – US End Configurations



For Split Flange Clamps
please refer to page 237.

O-Ring Flange SAE J518 Code 62 Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	Max WP (psi)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)			
H1243610-0808	A-0808-C62S	08	1/2	12.7	1.25	31.8	46.6	6000	0.50
H1243610-0812	A-0812-C62S	08	1/2	12.7	1.63	41.3	67.2	6000	0.52
H1243610-1212	A-1212-C62S	12	3/4	19.0	1.63	41.3	52.5	6000	0.54
H1243610-1216	A-1216-C62S	12	3/4	19.0	1.88	47.6	55.5	6000	0.70
H1243610-1616	A-1616-C62S	16	1	25.4	1.88	47.6	56.4	6000	0.81
H1243610-1620	A-1620-C62S	16	1	25.4	1.88	54.0	63.4	6000	1.08
H1243610-2020	A-2020-C62S	20	1 1/4	31.8	2.13	54.0	83.0	6000	1.45
H1243610-2024	A-2024-C62S	20	1 1/4	31.8	2.13	63.5	71.0	6000	1.88
H1243610-2424	A-2424-C62S	24	1 1/2	38.1	2.50	63.5	101.0	6000	2.05
H1243610-2432	A-2432-C62S	24	1 1/2	38.1	2.50	79.4	76.0	6000	2.87
H1243610-3232	A-3232-C62S	32	2	50.8	3.13	79.4	76.0	6000	3.53



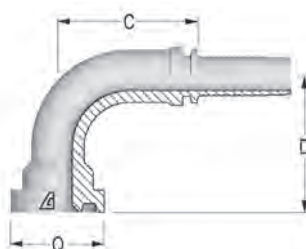
For Split Flange Clamps
please refer to page 237.

45° O-Ring Flange SAE J518 Code 62 Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max WP (psi)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
H1243640-0808	A-0808-C624	08	1/2	12.7	1.25	31.8	46.6	23.0	6000	0.30
H1243640-0812	A-0812-C624	08	1/2	12.7	1.63	41.3	67.2	30.5	6000	0.55
H1243640-1212	A-1212-C624	12	3/4	19.0	1.63	41.3	71.4	31.0	6000	0.60
H1243640-1216	A-1216-C624	12	3/4	19.0	1.88	47.6	65.2	33.5	6000	0.78
H1243640-1616	A-1616-C624	16	1	25.4	1.88	47.6	81.9	36.0	6000	0.94
H1243640-1620	A-1620-C624	16	1	25.4	2.13	54.0	78.4	39.0	6000	1.22
H1243640-2020	A-2020-C624	20	1 1/4	31.8	2.13	54.0	90.9	40.0	6000	1.65
H1243640-2024	A-2024-C624	20	1 1/4	31.8	2.50	63.5	93.6	45.5	6000	1.98
H1243640-2424	A-2424-C624	24	1 1/2	38.1	2.50	63.5	101.7	45.0	6000	2.43
H1243640-2432	A-2432-C624	24	1 1/2	38.1	3.13	79.4	106.4	57.5	6000	2.21
H1243640-3232	A-3232-C624	32	2	50.8	3.13	79.4	129.7	60.0	6000	4.09

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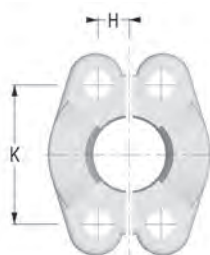
Inserts for two-piece fittings – US End Configurations



For Split Flange Clamps
please refer to page 237.

90° O-Ring Flange SAE J518 Code 62 Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max WP (psi)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
H1243690-0808	A-0808-C629	08	1/2	12.7	1.25	31.8	47.8	46	6000	0.33
H1243690-0812	A-0812-C629	08	1/2	12.7	1.63	41.3	47.8	54	6000	0.88
H1243690-1212	A-1212-C629	12	3/4	19.0	1.63	41.3	63.2	61	6000	0.62
H1243690-1216	A-1216-C629	12	3/4	19.0	1.88	47.6	63.2	66	6000	0.93
H1243690-1616	A-1616-C629	16	1	25.4	1.88	47.6	73.6	75	6000	1.05
H1243690-1620	A-1620-C629	16	1	25.4	2.13	54.0	77.6	78	6000	1.32
H1243690-2020	A-2020-C629	20	1 1/4	31.8	2.13	54.0	94.5	89	6000	1.59
H1243690-2024	A-2024-C629	20	1 1/4	31.8	2.50	63.5	98.0	94	6000	2.09
H1243690-2424	A-2424-C629	24	1 1/2	38.1	2.50	63.5	99.6	105	6000	2.57
H1243690-2432	A-2432-C629	24	1 1/2	38.1	3.13	79.4	114.7	123	6000	2.21
H1243690-3232	A-3232-C629	32	2	50.8	3.13	79.4	143.3	132	6000	2.32



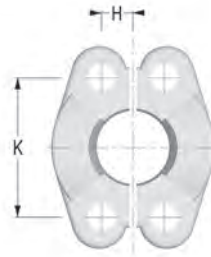
Split Flange Clamps SAE J518 Code 61 – 3000 PSI

Former Part Number	New Part Number	Flange Size (in.)	H (mm)	K (mm)	Max WP	Weight Each (lbs.)
H10W3320-0800	C61SF-08	1/2	8.7	38.1	3000	0.22
H10W3320-1200	C61SF-12	3/4	11.1	47.6	3000	0.38
H10W3320-1600	C61SF-16	1	13.1	52.4	3000	0.50
H10W3320-2000	C61SF-20	1 1/4	15.1	58.7	3000	0.67
H10W3320-2400	C61SF-24	1 1/2	17.9	69.9	3000	1.01
H10W3320-3200	C61SF-32	2	21.4	77.8	3000	1.18
H10W3320-4000	C61SF-40	2 1/2	25.5	89.0	2500	1.89

Note: Bolts, washers and o-ring are not included.

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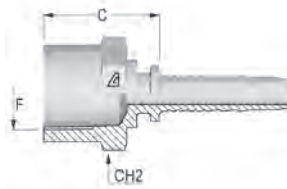
Inserts for two-piece fittings – International End Configurations



Split Flange Clamps SAE J518 Code 62 – 6000 PSI

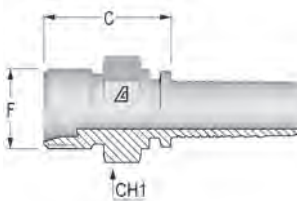
Former Part Number	New Part Number	Flange Size (in.)	H (mm)	K (mm)	Max WP	Weight Each (lbs.)
H10W3620-0800	C62SF-08	1/2	9.1	40.5	6000	0.35
H10W3620-1200	C62SF-12	3/4	11.9	50.8	6000	0.71
H10W3620-1600	C62SF-16	1	13.9	57.2	6000	1.43
H10W3620-2000	C62SF-20	1 1/4	15.9	66.7	6000	1.76
H10W3620-2400	C62SF-24	1 1/2	18.3	79.4	6000	3.09
H10W3620-3200	C62SF-32	2	22.2	96.8	6000	4.41

Note: Bolts, washers and o-ring are not included.



Grease Fitting

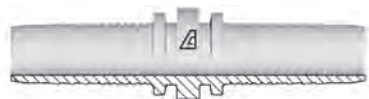
Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Size (in.)	C Cut-Off Factor (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)				
H1229710-0404	A-0404-FGRT	04	1/4	6.4	1/2-27	23.3	19	0.07



Bite Type Tube Fitting

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Size (in.)	C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)				
H1213B10-0404	A-0404-BTTF	04	1/4	6.4	7/16-20	21.8	12	0.06
H1213B10-0405	A-0405-BTTF	04	1/4	6.4	1/2-20	22.8	14	0.07
H1213B10-0506	A-0506-BTTF	05	5/16	7.9	9/16-18	24.2	16	0.08
H1213B10-0606	A-0606-BTTF	06	3/8	9.5	9/16-18	24.2	16	0.09
H1213B10-0808	A-0808-BTTF	08	1/2	12.7	3/4-16	28.4	22	0.14
H1213B10-1212	A-1212-BTTF	12	12	19.0	1 1/16-12	33.1	30	0.09

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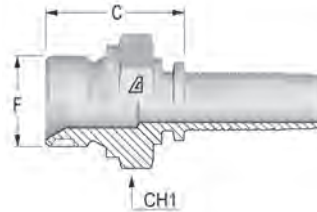


Hose Mender

Former Part Number	New Part Number	Dash Size	Hose ID Size		Weight Each (lbs.)
			(in.)	(mm)	
H12C5610-0404	A-0404-HMEN	04	1/4	6.4	0.04
H12C5610-0505	A-0505-HMEN	05	5/16	7.9	0.05
H12C5610-0606	A-0606-HMEN	06	3/8	9.5	0.06
H12C5610-0808	A-0808-HMEN	08	1/2	12.7	0.09
H12C5610-1010	A-1010-HMEN	10	5/8	15.9	0.15
H12C5610-1212	A-1212-HMEN	12	3/4	19.0	0.21
H12C5610-1616	A-1616-HMEN	16	1	25.4	0.28
H12C5610-2020	A-2020-HMEN	20	1 1/4	31.8	0.30
H12C5610-2424	A-2424-HMEN	24	1 1/2	38.1	0.35
H12C5610-3232	A-3232-HMEN	32	2	50.8	0.44

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Inserts for two-piece fittings – International End Configurations

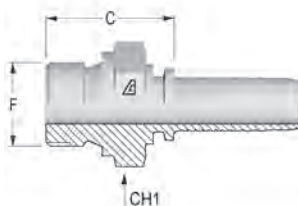


BSP Solid Male Parallel 60° Seat

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
H1210510-0302	A-0302-MBPP	03	3/16	4.8	02	1/8-28	21.3	14	0.04
H1210510-0402	A-0402-MBPP	04	1/4	6.4	02	1/8-28	21.7	14	0.04
H1210510-0404	A-0404-MBPP	04	1/4	6.4	04	1/4-19	26.3	19	0.07
H1210510-0406	A-0406-MBPP	04	1/4	6.4	06	3/8-19	27.8	22	0.10
H1210510-0506	A-0506-MBPP	05	5/16	7.9	06	3/8-19	27.8	22	0.11
H1210510-0604	A-0604-MBPP	06	3/8	9.5	04	1/4-19	26.3	19	0.11
H1210510-0606	A-0606-MBPP	06	3/8	9.5	06	3/8-19	27.8	22	0.11
H1210510-0608	A-0608-MBPP	06	3/8	9.5	08	1/2-14	31.3	27	0.18
H1210510-0806	A-0806-MBPP	08	1/2	12.7	06	3/8-19	28.6	22	0.14
H1210510-0808	A-0808-MBPP	08	1/2	12.7	08	1/2-14	32.1	27	0.20
H1210510-0810	A-0810-MBPP	08	1/2	12.7	10	5/8-14	36.1	30	0.27
H1210510-0812	A-0812-MBPP	08	1/2	12.7	12	3/4-14	34.1	32	0.27
H1210510-1010	A-1010-MBPP	10	5/8	15.9	10	5/8-14	36.1	30	0.27
H1210510-1012	A-1012-MBPP	10	5/8	15.9	12	3/4-14	34.1	32	0.29
H1210510-1212	A-1212-MBPP	12	3/4	19.0	12	3/4-14	34.6	32	0.31
H1210510-1216	A-1216-MBPP	12	3/4	19.0	16	1-11	39.6	41	0.53
H1210510-1612	A-1612-MBPP	16	1	25.4	12	3/4-14	40.2	41	0.55
H1210510-1616	A-1616-MBPP	16	1	25.4	16	1-11	40.4	41	0.58
H1210510-1620	A-1620-MBPP	16	1	25.4	20	1 1/4-11	42.4	50	0.82
H1210510-2020	A-2020-MBPP	20	1 1/4	31.8	20	1 1/4-11	47.0	50	0.98
H1210510-2424	A-2424-MBPP	24	1 1/2	38.1	24	1 1/2-11	49.0	55	1.19
H1210510-3232	A-3232-MBPP	32	2	50.8	32	2-11	53.5	70	2.01

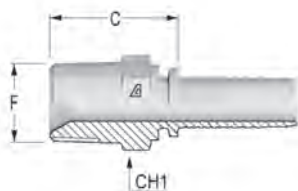
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Inserts for two-piece fittings – International End Configurations



BSP Solid Male Flat Seat

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
H1210610-0404	A-0404-MBFS	04	1/4	6.4	04	1/4-11	26.3	19	0.09
H1210610-0606	A-0606-MBFS	06	3/8	9.5	06	3/8-19	27.8	22	0.11
H1210610-0608	A-0608-MBFS	06	3/8	9.5	08	1/2-14	31.3	27	0.20
H1210610-0808	A-0808-MBFS	08	1/2	12.7	08	1/2-14	32.1	27	0.13
H1210610-1010	A-1010-MBFS	10	5/8	15.9	10	5/8-14	36.1	30	0.28
H1210610-1212	A-1212-MBFS	12	3/4	19.0	12	3/4-14	34.6	32	0.22
H1210610-1616	A-1616-MBFS	16	1	25.4	16	1-11	40.4	41	0.44

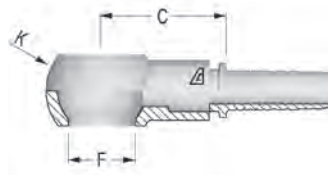


BSP/JIS Solid Male Tapered

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
H1210710-0302	A-0302-MBPT	03	3/16	4.8	02	1/8-28	20.8	12	0.03
H1210710-0402	A-0402-MBPT	04	1/4	6.4	02	1/8-28	22.3	12	0.04
H1210710-0404	A-0404-MBPT	04	1/4	6.4	04	1/4-19	26.3	17	0.06
H1210710-0406	A-0406-MBPT	04	1/4	6.4	06	3/8-19	26.3	19	0.08
H1210710-0506	A-0506-MBPT	05	5/16	7.9	06	3/8-19	26.3	19	0.09
H1210710-0606	A-0606-MBPT	06	3/8	9.5	06	3/8-19	26.3	19	0.09
H1210710-0608	A-0608-MBPT	06	3/8	9.5	08	1/2-14	33.3	22	0.15
H1210710-0808	A-0808-MBPT	08	1/2	12.7	08	1/2-14	34.1	22	0.17
H1210710-1012	A-1012-MBPT	10	5/8	15.9	12	3/4-14	34.1	27	0.27
H1210710-1212	A-1212-MBPT	12	3/4	19.0	12	3/4-14	34.6	27	0.27
H1210710-1216	A-1216-MBPT	12	3/4	19.0	16	1-11	42.6	36	0.44
H1210710-1616	A-1616-MBPT	16	1	25.4	16	1-11	43.4	36	0.53
H1210710-2020	A-2020-MBPT	20	1 1/4	31.8	20	1 1/4-11	49.0	46	0.90
H1210710-2424	A-2424-MBPT	24	1 1/2	38.1	24	1 1/2-11	49.0	50	1.08
H1210710-3232	A-3232-MBPT	32	2	50.8	32	2-11	52.0	65	1.76

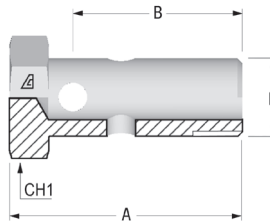
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Inserts for two-piece fittings – International End Configurations



BSP Banjo - RNR

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Size (in.-TPI)	F (mm)	C Cut-Off Factor (mm)	K (mm)	Weight Each (lbs.)
			(in.)	(mm)					
H1230310-0402	A-0402-BBAN	04	1/4	6.4	1/8-28	10.1	20.0	17	0.06
H1230310-0404	A-0404-BBAN	04	1/4	6.4	1/4-19	13.3	26.5	22	0.07
H1230310-0506	A-0506-BBAN	05	5/16	7.9	3/8-19	16.7	30.5	28	0.10
H1230310-0606	A-0606-BBAN	06	3/8	9.5	3/8-19	16.7	30.5	28	0.10
H1230310-0608	A-0608-BBAN	06	3/8	9.5	1/2-14	21.0	34.5	38	0.19
H1230310-0808	A-0808-BBAN	08	1/2	12.7	1/2-14	21.0	35.0	38	0.20
H1230310-1010	A-1010-BBAN	10	5/8	15.9	5/8-14	23.0	38.0	40	0.27
H1230310-1212	A-1212-BBAN	12	3/4	19.0	3/4-14	26.5	41.5	46	0.44
H1230310-1616	A-1616-BBAN	16	1	25.4	1-11	33.3	50.5	58	0.82

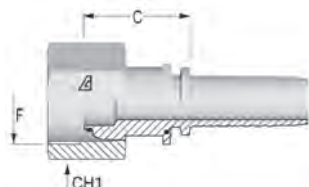


BSPP Bolt

Former Part Number	New Part Number	F Thread (in.-TPI)	A (mm)	B (mm)	CH1 (mm)	Weight Each (lbs.)
H10V0210-04	BBOLT-04	1/4-19	30	25	19	0.08
H10V0210-06	BBOLT-06	3/8-19	38	31	22	0.13
H10V0210-08	BBOLT-08	1/2-14	46	38	27	0.21
H10V0210-10	BBOLT-10	5/8-14	51	42	28	0.21
H10V0210-12	BBOLT-12	3/4-14	56	47	32	0.37
H10V0210-16	BBOLT-16	1-11	69	58	38	0.76

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Inserts for two-piece fittings – International End Configurations

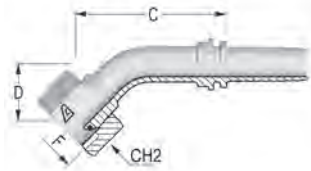


BSP O-Ring Female Swivel 60° Cone

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
H1220811-0302	A-0302-FBPO	03	3/16	4.8	02	1/8-28	13.5	14	0.03
H1220811-0402	A-0402-FBPO	04	1/4	6.4	02	1/8-28	14.5	14	0.04
H1220813-0304	A-0304-FBPO	03	3/16	4.8	04	1/4-19	16.0	19	0.04
H1220813-0404	A-0404-FBPO	04	1/4	6.4	04	1/4-19	16.0	19	0.06
H1220813-0406	A-0406-FBPO	04	1/4	6.4	06	3/8-19	16.0	22	0.09
H1220811-0504	A-0504-FBPO	05	5/16	7.9	04	1/4-19	17.3	19	0.07
H1220813-0506	A-0506-FBPO	05	5/16	7.9	06	3/8-19	18.0	22	0.09
H1220811-0604	A-0604-FBPO	06	3/8	9.5	04	1/4-19	17.3	19	0.09
H1220813-0606	A-0606-FBPO	06	3/8	9.5	06	3/8-19	17.0	22	0.10
H1220813-0608	A-0608-FBPO	06	3/8	9.5	08	1/2-14	17.0	27	0.15
H1220811-0806	A-0806-FBPO	08	1/2	12.7	06	3/8-19	18.6	22	0.13
H1220813-0808	A-0808-FBPO	08	1/2	12.7	08	1/2-14	18.0	27	0.16
H1220813-0810	A-0810-FBPO	08	1/2	12.7	10	5/8-14	17.0	27	0.19
H1220813-0812	A-0812-FBPO	08	1/2	12.7	12	3/4-14	22.0	32	0.22
H1220811-1010	A-1010-FBPO	10	5/8	15.9	10	5/8-14	17.1	27	0.21
H1220813-1012	A-1012-FBPO	10	5/8	15.9	12	3/4-14	20.0	32	0.26
H1220811-1212	A-1212-FBPO	12	3/4	19.0	12	3/4-14	20.6	32	0.26
H1220813-1216	A-1216-FBPO	12	3/4	19.0	16	1-11	23.0	38	0.02
H1220811-1616	A-1616-FBPO	16	1	25.4	16	1-11	23.9	38	0.44
H1220813-1620	A-1620-FBPO	16	1	25.4	20	1 1/4-11	30.5	50	0.90
H1220812-2020	A-2020-FBPO	20	1 1/4	31.8	20	1 1/4-11	32.0	50	0.98
H1220813-2024	A-2024-FBPO	20	1 1/4	31.8	24	1 1/2-11	41.9	55	1.32
H1220812-2424	A-2424-FBPO	24	1 1/2	38.1	24	1 1/2-11	33.8	55	1.65
H1220812-2432	A-2432-FBPO	24	1 1/2	38.1	32	2-11	36.0	70	1.98
H1220812-3232	A-3232-FBPO	32	2	50.8	32	2-11	34.0	70	2.12

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Inserts for two-piece fittings – International End Configurations

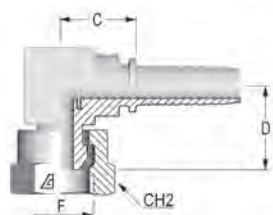


45° BSP O-Ring Female Swivel 60° Cone Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1220541-0302	A-0302-FBP4	03	3/16	4.8	02	1/8-28	36.0	16.0	14	0.03
H1220541-0402	A-0402-FBP4	04	1/4	6.4	02	1/8-28	42.0	16.0	14	0.04
H1220541-0404	A-0404-FBP4	04	1/4	6.4	04	1/4-19	44.0	15.0	19	0.09
H1220541-0406	A-0406-FBP4	04	1/4	6.4	06	3/8-19	43.0	16.0	22	0.13
H1220541-0608	A-0608-FBP4	06	3/8	9.5	08	1/2-14	53.5	21.0	27	0.14
H1220843-0404	A-0404-FB04	04	1/4	6.4	04	1/4-19	44.5	15.0	19	0.10
H1220843-0406	A-0406-FB04	04	1/4	6.4	06	3/8-19	43.0	16.9	22	0.14
H1220843-0506	A-0506-FB04	05	5/16	7.9	06	3/8-19	48.0	18.0	22	0.16
H1220843-0606	A-0606-FB04	06	3/8	9.5	06	3/8-19	50.0	20.5	22	0.15
H1220843-0608	A-0608-FB04	06	3/8	9.5	08	1/2-14	53.5	21.0	27	0.15
H1220843-0808	A-0808-FB04	08	1/2	12.7	08	1/2-14	56.0	21.0	27	0.24
H1220843-0810	A-0810-FB04	08	1/2	12.7	10	5/8-14	61.0	23.0	27	0.34
H1220841-1010	A-1010-FB04	10	5/8	15.9	10	5/8-14	64.0	21.5	27	0.24
H1220843-1012	A-1012-FB04	10	5/8	15.9	12	3/4-14	69.0	22.5	32	0.44
H1220841-1212	A-1212-FB04	12	3/4	19.0	12	3/4-14	67.6	28.0	32	0.44
H1220843-1216	A-1216-FB04	12	3/4	19.0	16	1-11	77.5	31.5	38	0.46
H1220841-1616	A-1616-FB04	16	1	25.4	16	1-11	72.5	34.0	38	1.00
H1220843-1620	A-1620-FB04	16	1	25.4	20	1 1/4-11	102.0	47.5	50	0.99
H1220842-2020	A-2020-FB04	20	1 1/4	31.8	20	1 1/4-11	101.0	40.0	50	1.32
H1220843-2024	A-2024-FB04	20	1 1/4	31.8	24	1 1/2-11	108.0	46.0	55	1.98
H1220842-2424	A-2424-FB04	24	1 1/2	38.1	24	1 1/2-14	111.0	46.0	55	2.66
H1220842-2432	A-2432-FB04	24	1 1/2	38.1	32	2-11	124.0	51.0	70	2.87
H1220842-3232	A-3232-FB04	32	2	50.8	32	2-11	154.0	60.0	70	3.94

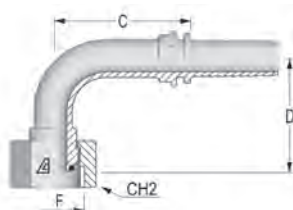
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Inserts for two-piece fittings – International End Configurations



90° BSP Compact Female Elbow 60° Cone

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1220581-0404	A-0404-FBC9	04	1/4	6.4	04	1/4-19	16.8	19.5	19	0.11
H1220581-0506	A-0506-FBC9	05	5/16	7.9	06	3/8-19	19.5	21.5	22	0.16
H1220581-0606	A-0606-FBC9	06	3/8	9.5	06	3/8-19	19.5	21.5	22	0.20
H1220581-0608	A-0608-FBC9	06	3/8	9.5	08	1/2-14	21.5	22.5	27	0.29
H1220581-0808	A-0808-FBC9	08	1/2	12.7	08	1/2-14	22.2	22.5	27	0.31
H1220581-1212	A-1212-FBC9	12	3/4	19.0	12	3/4-14	26.7	31.0	32	0.39
H1220581-1616	A-1616-FBC9	16	1	25.4	16	1-11	34.5	27.5	38	0.47



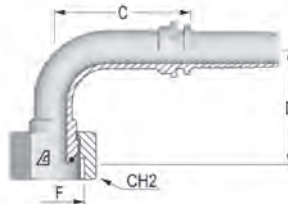
90° BSP O-Ring Female Swivel 60° Cone Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1220591-0302	A-0302-FBP9	03	3/16	4.8	02	1/8-28	25.0	29.0	14	0.06
H1220891-0402	A-0402-FB09	04	1/4	6.4	02	1/8-28	27.0	30.0	14	0.08
H1220893-0404	A-0404-FB09	04	1/4	6.4	04	1/4-19	29.3	29.0	19	0.10
H1220893-0406	A-0406-FB09	04	1/4	6.4	06	3/8-19	28.0	30.5	22	0.13
H1220893-0506	A-0506-FB09	05	5/16	7.9	06	3/8-19	34.0	35.5	22	0.15
H1220893-0606	A-0606-FB09	06	3/8	9.5	06	3/8-19	39.5	42.0	22	0.15
H1220893-0608	A-0608-FB09	06	3/8	9.5	08	1/2-14	33.0	36.0	27	0.21
H1220893-0808	A-0808-FB09	08	1/2	12.7	08	1/2-14	40.0	41.0	27	0.24
H1220893-0810	A-0810-FB09	08	1/2	12.7	10	5/8-14	42.5	43.0	27	0.24
H1220893-0812	A-0812-FB09	08	1/2	12.7	12	3/4-14	42.5	43.0	32	0.28
H1220891-1010	A-1010-FB09	10	5/8	15.9	10	5/8-14	50.2	47.0	27	0.33
H1220893-1012	A-1012-FB09	10	5/8	15.9	12	3/4-14	48.0	46.0	32	0.42
H1220891-1212	A-1212-FB09	12	3/4	19.0	12	3/4-14	53.5	53.0	32	0.49
H1220893-1216	A-1216-FB09	12	3/4	19.0	16	1-11	54.0	50.0	38	0.66
H1220891-1616	A-1616-FB09	16	1	25.4	16	1-11	73.4	69.0	38	0.92

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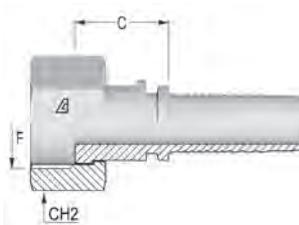
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Inserts for two-piece fittings – International End Configurations



90° BSP O-Ring Female Swivel 60° Cone Solid One-Piece Continued

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1220893-1620	A-1620-FB09	16	1	25.4	20	1 1/4-11	78.5	88.5	50	1.55
H1220892-2020	A-2020-FB09	20	1 1/4	31.8	20	1 1/4-11	83.0	83.0	50	1.72
H1220893-2024	A-2024-FB09	20	1 1/4	31.8	24	1 1/2-11	101.5	83.0	55	2.21
H1220892-2424	A-2424-FB09	24	1 1/2	38.1	24	1 1/2-11	96.0	96.0	55	2.98
H1220893-2432	A-2432-FB09	24	1 1/2	38.1	32	2-11	114.0	110.0	70	2.82
H1220892-3232	A-3232-FB09	32	2	50.8	32	2-11	138.0	136.0	70	4.41

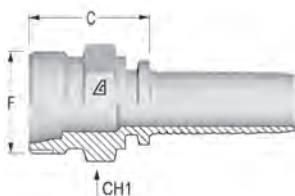


BSP Female Swivel Flat Seat

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
H1220613-0404	A-0404-FBFS	04	1/4	6.4	04	1/4-19	20.3	19	0.06
H1220613-0606	A-0606-FBFS	06	3/8	9.5	06	3/8-19	20.3	22	0.09
H1220613-0608	A-0608-FBFS	06	3/8	9.5	08	1/2-14	20.8	27	0.14
H1220613-0808	A-0808-FBFS	08	1/2	12.7	08	1/2-14	21.6	27	0.16
H1220613-0812	A-0812-FBFS	08	1/2	12.7	12	3/4-14	24.6	32	0.23
H1220611-1010	A-1010-FBFS	10	5/8	15.9	10	5/8-14	15.3	27	0.22
H1220611-1012	A-1012-FBFS	10	5/8	15.9	12	3/4-14	17.6	32	0.44
H1220611-1212	A-1212-FBFS	12	3/4	19.0	12	3/4-14	18.0	32	0.26
H1220611-1616	A-1616-FBFS	16	1	25.4	16	1-11	19.9	38	0.40

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Inserts for two-piece fittings – International End Configurations

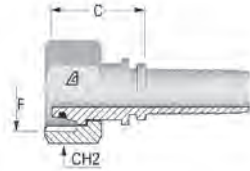


Metric Solid Male 24° Seat – DIN 3853 Light

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Size (mmxTPmm)	Tube OD (mm)	C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)					
H1211110-0414	A-0414-MMSL	04	1/4	6.4	M14x1.5	8	22.3	14	0.04
H1211110-0416	A-0416-MMSL	04	1/4	6.4	M16x1.5	10	23.3	17	0.06
H1211110-0516	A-0516-MMSL	05	5/16	7.9	M16x1.5	10	23.3	17	0.06
H1211110-0518	A-0518-MMSL	05	5/16	7.9	M18x1.5	12	23.3	19	0.07
H1211110-0616	A-0616-MMSL	06	3/8	9.5	M16x1.5	10	23.3	17	0.07
H1211110-0618	A-0618-MMSL	06	3/8	9.5	M18x1.5	12	23.3	19	0.08
H1211110-0622	A-0622-MMSL	06	3/8	9.5	M22x1.5	15	25.3	22	0.11
H1211110-0822	A-0822-MMSL	08	1/2	12.7	M22x1.5	15	26.1	22	0.13
H1211110-0826	A-0826-MMSL	08	1/2	12.7	M26x1.5	18	27.1	27	0.19
H1211110-1026	A-1026-MMSL	10	5/8	15.9	M26x1.5	18	27.1	27	0.19
H1211110-1230	A-1230-MMSL	12	3/4	19.0	M30x2	22	29.6	32	0.26
H1211110-1636	A-1636-MMSL	16	1	25.4	M36x2	28	33.4	36	0.42
H1211110-2045	A-2045-MMSL	20	1 1/4	31.8	M45x2	35	40.0	46	0.79
H1211110-2452	A-2452-MMSL	24	1 1/2	38.1	M52x2	42	40.5	60	0.88

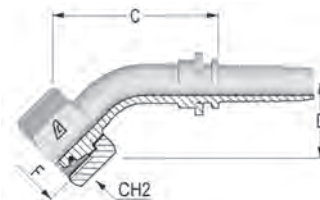
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Inserts for two-piece fittings – International End Inserts



Metric O-Ring Female Swivel 24° Seat – DIN 3865 Light

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Size (mmxTPmm)	Tube OD (mm)	C Cut-Off Factor (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)					
H1221513-0414	A-0414-FMOL	04	1/4	6.4	M14x1.5	8	24.4	17	0.06
H1221513-0416	A-0416-FMOL	04	1/4	6.4	M16x1.5	10	25.4	19	0.08
H1221513-0516	A-0516-FMOL	05	5/16	7.9	M16x1.5	10	25.4	19	0.09
H1221513-0616	A-0616-FMOL	06	3/8	9.5	M16x1.5	10	25.4	19	0.88
H1221513-0618	A-0618-FMOL	06	3/8	9.5	M18x1.5	12	25.4	22	0.12
H1221513-0822	A-0822-FMOL	08	1/2	12.7	M22x1.5	15	28.2	27	0.19
H1221513-1026	A-1026-FMOL	10	5/8	15.9	M26x1.5	18	29.2	32	0.27
H1221513-1230	A-1230-FMOL	12	3/4	19.0	M30x2	22	31.7	36	0.38
H1221513-1636	A-1636-FMOL	16	1	25.4	M36x2	28	33.6	41	0.53
H1221513-2045	A-2045-FMOL	20	1 1/4	31.8	M45x2	35	40.1	50	0.88
H1221513-2452	A-2452-FMOL	24	1 1/2	38.1	M52x2	42	40.5	60	1.28

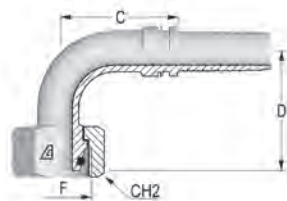


45° Metric O-Ring Female Swivel 24° Seat – DIN 3865 Light Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Size (mmxTPmm)	Tube OD (mm)	C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)						
H1221543-0414	A-0414-FM4L	04	1/4	6.4	M14x1.5	8	42.7	17.5	17	0.08
H1221543-0416	A-0416-FM4L	04	1/4	6.4	M16x1.5	10	42.7	20.0	19	0.10
H1221543-0516	A-0516-FM4L	05	5/16	7.9	M16x1.5	10	47.5	20.0	19	0.13
H1221543-0616	A-0616-FM4L	06	3/8	9.5	M16x1.5	10	46.8	20.0	19	0.14
H1221543-0618	A-0618-FM4L	06	3/8	9.5	M18x1.5	12	46.8	19.5	22	0.15
H1221543-0822	A-0822-FM4L	08	1/2	12.7	M22x1.5	15	55.0	21.0	27	0.24
H1221543-1026	A-1026-FM4L	10	5/8	15.9	M26x1.5	18	65.3	24.0	32	0.37
H1221543-1230	A-1230-FM4L	12	3/4	19.0	M30x2	22	69.4	32.0	36	0.54
H1221543-1636	A-1636-FM4L	16	1	25.4	M36x2	28	91.4	32.0	41	0.74
H1221543-2045	A-2045-FM4L	20	1 1/4	31.8	M45x2	35	135.5	45.0	50	1.32
H1221543-2452	A-2452-FM4L	24	1 1/2	38.1	M52x2	42	114.1	47.0	60	1.93

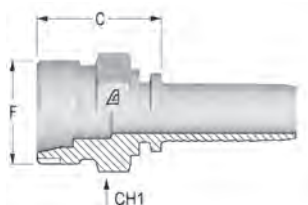
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Inserts for two-piece fittings – International End Inserts



90° Metric O-Ring Female Swivel 24° Seat – DIN 3865 Light Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Size (mmxTPmm)	Tube OD (mm)	C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)						
H1221593-0414	A-0414-FM9L	04	1/4	6.4	M14x1.5	8	28.3	32.5	17	0.09
H1221593-0416	A-0416-FM9L	04	1/4	6.4	M16x1.5	10	28.3	32.5	19	0.10
H1221593-0516	A-0516-FM9L	05	5/16	7.9	M16x1.5	10	33.7	38.0	19	0.13
H1221593-0616	A-0616-FM9L	06	3/8	9.5	M16x1.5	10	32.8	38.0	19	0.14
H1221593-0618	A-0618-FM9L	06	3/8	9.5	M18x1.5	12	32.8	39.0	22	0.15
H1221593-0822	A-0822-FM9L	08	1/2	12.7	M22x1.5	15	39.8	40.5	27	0.24
H1221593-1026	A-1026-FM9L	10	5/8	15.9	M26x1.5	18	51.4	48.0	32	0.39
H1221593-1230	A-1230-FM9L	12	3/4	19.0	M30x2	22	52.1	59.0	36	0.57
H1221593-1636	A-1636-FM9L	16	1	25.4	M36x2	28	77.6	68.0	41	0.86
H1221593-2045	A-2045-FM9L	20	1 1/4	31.8	M45x2	35	90.5	89.0	50	1.54
H1221593-2452	A-2452-FM9L	24	1 1/2	38.1	M52x2	42	104.0	100.0	60	2.34

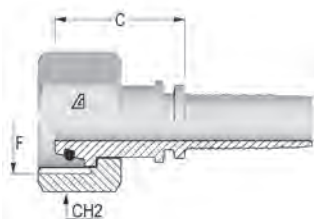


Metric Solid Male 24° Seat – DIN 3853 Heavy

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Size (mmxTPmm)	Tube OD (mm)	C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)					
H1211210-0414	A-0414-MMSH	04	1/4	6.4	M14x1.5	6	24.3	17	0.06
H1211210-0416	A-0416-MMSH	04	1/4	6.4	M16x1.5	8	24.3	17	0.06
H1211210-0418	A-0418-MMSH	04	1/4	6.4	M18x1.5	10	25.3	19	0.07
H1211210-0520	A-0520-MMSH	05	5/16	7.9	M20x1.5	12	25.3	22	0.10
H1211210-0620	A-0620-MMSH	06	3/8	9.5	M20x1.5	12	25.3	22	0.11
H1211210-0622	A-0622-MMSH	06	3/8	9.5	M22x1.5	14	27.3	22	0.12
H1211210-0824	A-0824-MMSH	08	1/2	12.7	M24x1.5	16	29.1	24	0.15
H1211210-1030	A-1030-MMSH	10	5/8	15.9	M30x2	20	33.1	32	0.26
H1211210-1236	A-1236-MMSH	12	3/4	19.0	M36x2	25	37.6	36	0.41
H1211210-1642	A-1642-MMSH	16	1	25.4	M42x2	30	42.4	46	0.76
H1211210-2052	A-2052-MMSH	20	1 1/4	31.8	M52x2	38	48.0	55	1.15

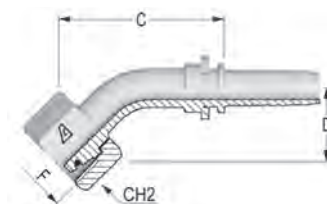
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Inserts for two-piece fittings – International End Inserts



Metric O-Ring Female Swivel 24° Seat – DIN 3865 Heavy

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Size (mmxTPmm)	Tube OD (mm)	C Cut-Off Factor (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)					
H1221613-0414	A-0414-FMOH	04	1/4	6.4	M14x1.5	6	26.4	17	0.07
H1221613-0416	A-0416-FMOH	04	1/4	6.4	M16x1.5	8	27.7	19	0.08
H1221613-0418	A-0418-FMOH	04	1/4	6.4	M18x1.5	10	27.6	22	0.12
H1221613-0520	A-0520-FMOH	05	5/16	7.9	M20x1.5	12	27.6	24	0.12
H1221613-0620	A-0620-FMOH	06	3/8	9.5	M20x1.5	12	27.6	24	0.14
H1221613-0622	A-0622-FMOH	06	3/8	9.5	M22x1.5	14	31.1	27	0.20
H1221613-0824	A-0824-FMOH	08	1/2	12.7	M24x1.5	16	31.7	30	0.26
H1221613-1030	A-1030-FMOH	10	5/8	15.9	M30x2	20	36.5	36	0.41
H1221613-1236	A-1236-FMOH	12	3/4	19.0	M36x2	25	40.2	46	0.75
H1221613-1642	A-1642-FMOH	16	1	25.4	M42x2	30	43.1	50	0.97
H1221613-2052	A-2052-FMOH	20	1 1/4	31.8	M52x2	38	48.1	60	1.54

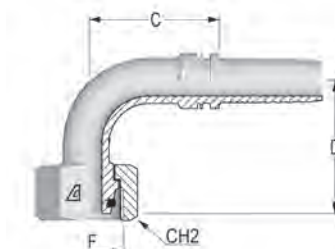


45° Metric O-Ring Female Swivel 24° Seat – DIN 3865 Heavy Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Size (mmxTPmm)	Tube OD (mm)	C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)						
H1221643-0414	A-0414-FM4H	04	1/4	6.4	M14x1.5	6	45.6	16.0	17	0.09
H1221643-0416	A-0416-FM4H	04	1/4	6.4	M16x1.5	8	43.5	19.0	22	0.10
H1221643-0418	A-0418-FM4H	04	1/4	6.4	M18x1.5	10	43.5	19.0	22	0.12
H1221643-0520	A-0520-FM4H	05	5/16	7.9	M20x1.5	12	48.1	21.0	24	0.18
H1221643-0620	A-0620-FM4H	06	3/8	9.5	M20x1.5	12	50.6	20.0	24	0.17
H1221643-0622	A-0622-FM4H	06	3/8	9.5	M22x1.5	14	52.9	21.0	27	0.23
H1221643-0824	A-0824-FM4H	08	1/2	12.7	M24x1.5	16	55.8	21.5	30	0.29
H1221643-1030	A-1030-FM4H	10	5/8	15.9	M30x2	20	66.3	30.0	36	0.50
H1221643-1236	A-1236-FM4H	12	3/4	19.0	M36x2	25	69.5	33.0	46	0.87
H1221643-1642	A-1642-FM4H	16	1	25.4	M42x2	30	110.3	40.5	50	1.31
H1221643-2052	A-2052-FM4H	20	1 1/4	31.8	M52x2	38	109.0	45.0	60	1.90

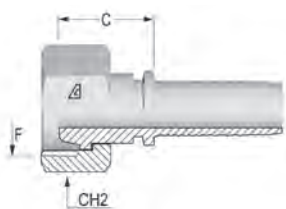
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Inserts for two-piece fittings – International End Configurations



90° Metric O-Ring Female Swivel 24° Seat – DIN 3865 Heavy Solid One-Piece

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Size (mmxTPmm)	Tube OD (mm)	C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)						
H1221693-0414	A-0414-FM9H	04	1/4	6.4	M14x1.5	6	27.3	33.0	17	0.11
H1221693-0418	A-0418-FM9H	04	1/4	6.4	M18x1.5	10	26.8	34.0	22	0.13
H1221693-0520	A-0520-FM9H	05	5/16	7.9	M20x1.5	12	33.2	39.0	24	0.19
H1221693-0620	A-0620-FM9H	06	3/8	9.5	M20x1.5	12	34.3	38.5	24	0.18
H1221693-0622	A-0622-FM9H	06	3/8	9.5	M22x1.5	14	34.3	40.5	27	0.24
H1221693-0824	A-0824-FM9H	08	1/2	12.7	M24x1.5	16	39.8	41.5	30	0.31
H1221693-1030	A-1030-FM9H	10	5/8	15.9	M30x2	20	47.9	55.0	36	0.52
H1221693-1236	A-1236-FM9H	12	3/4	19.0	M36x2	25	50.6	59.5	46	0.88
H1221693-1642	A-1642-FM9H	16	1	25.4	M42x2	30	75.6	79.0	50	1.38
H1221693-2052	A-2052-FM9H	20	1 1/4	31.8	M52x2	38	94.0	92.0	60	2.09

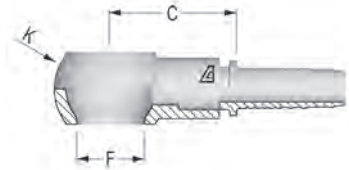


Metric Swivel Female 60° Cone – DIN 3863

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Size (mmxTPmm)	C Cut-Off Factor (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)				
H1221013-1230	A-1230-FM6S	12	3/4	19.0	M30x1.5	22.2	36	0.31
H1221013-1638	A-1638-FM6S	16	1	25.4	M38x1.5	28.0	46	0.49

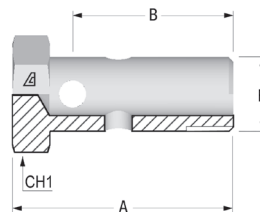
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Inserts for two-piece fittings – International End Inserts



Metric Banjo

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Size (mmxTPmm)	C Cut-Off Factor (mm)	K (mm)	Weight Each (lbs.)
			(in.)	(mm)				
H1230910-0412	A-0412-MBAN	04	1/4	6.4	M12x1.5	28.5	20	0.05
H1230910-0414	A-0414-MBAN	04	1/4	6.4	M14x1.5	27.5	24	0.06
H1230910-0512	A-0512-MBAN	05	5/16	7.9	M12x1.5	28.5	24	0.66
H1230910-0514	A-0514-MBAN	05	5/16	7.9	M14x1.5	27.5	24	0.07
H1230910-0614	A-0614-MBAN	06	3/8	9.5	M14x1.5	27.5	24	0.08
H1230910-0616	A-0616-MBAN	06	3/8	9.5	M16x1.5	30.5	28	0.11
H1230910-0618	A-0618-MBAN	06	3/8	9.5	M18x1.5	31.5	32	0.15
H1230910-0818	A-0818-MBAN	08	1/2	12.7	M18x1.5	32.0	32	0.17
H1230910-0822	A-0822-MBAN	08	1/2	12.7	M22x1.5	35.0	39	0.19
H1230910-1022	A-1022-MBAN	10	5/8	15.9	M22x1.5	35.0	39	0.28
H1230910-1226	A-1226-MBAN	12	3/4	19.0	M26x1.5	38.5	46	0.42
H1230910-1630	A-1630-MBAN	16	1	25.4	M30x1.5	42.5	54	0.94

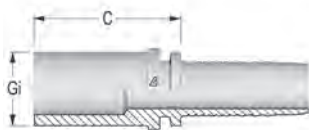


Metric Bolt

Former Part Number	New Part Number	F Thread Size (in.-TPI)	A (mm)	B (mm)	CH1 (mm)	Weight Each (lbs.)
H10V0810-10	MBOLT-10	10x1.5	24	19	14	0.03
H10V0810-12	MBOLT-12	12x1.5	29	24	17	0.06
H10V0810-14	MBOLT-14	14x1.5	34	28	19	0.08
H10V0810-16	MBOLT-16	16x1.5	41	34	22	0.13
H10V0810-18	MBOLT-18	18x1.5	44	37	24	0.15
H10V0810-22	MBOLT-22	22x1.5	48	41	27	0.23
H10V0810-26	MBOLT-26	26x1.5	52	42	32	0.38
H10V0810-30	MBOLT-30	30x1.5	62	51	38	0.53

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Inserts for two-piece fittings – International End Inserts



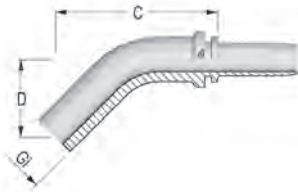
For Nuts & Cutting Rings
please refer to pages 254-256.

Metric Straight Standpipe

Former Part Number	New Part Number	Dash Size	Hose ID Size		GI Tube OD (mm)	C Cut-Off Factor (mm)	Weight Each (lbs.)
			(in.)	(mm)			
H1252010-0306	A-0306-MSPS	03	3/16	4.8	6	27.8	0.02
H1252010-0308	A-0308-MSPS	03	3/16	4.8	8	29.8	0.03
H1252010-0406	A-0406-MSPS	04	1/4	6.4	6	28.3	0.02
H1252010-0408	A-0408-MSPS	04	1/4	6.4	8	30.2	0.03
H1252010-0410	A-0410-MSPS	04	1/4	6.4	10	32.2	0.04
H1252010-0412	A-0412-MSPS	04	1/4	6.4	12	31.2	0.06
H1252010-0510	A-0510-MSPS	05	5/16	7.9	10	30.2	0.04
H1252010-0512	A-0512-MSPS	05	5/16	7.9	12	32.7	0.06
H1252010-0610	A-0610-MSPS	06	3/8	9.5	10	30.3	0.04
H1252010-0612	A-0612-MSPS	06	3/8	9.5	12	29.3	0.05
H1252010-0614	A-0614-MSPS	06	3/8	9.5	14	35.8	0.09
H1252010-0615	A-0615-MSPS	06	3/8	9.5	15	34.8	0.09
H1252010-0812	A-0812-MSPS	08	1/2	12.7	12	32.1	0.10
H1252010-0814	A-0814-MSPS	08	1/2	12.7	14	36.1	0.10
H1252010-0815	A-0815-MSPS	08	1/2	12.7	15	32.1	0.10
H1252010-0816	A-0816-MSPS	08	1/2	12.7	16	37.1	0.12
H1252010-0818	A-0818-MSPS	08	1/2	12.7	18	36.0	0.12
H1252010-1018	A-1018-MSPS	10	5/8	15.9	18	34.2	0.14
H1252010-1020	A-1020-MSPS	10	5/8	15.9	20	44.2	0.20
H1252010-1022	A-1022-MSPS	10	5/8	15.9	22	37.2	0.18
H1252010-1220	A-1220-MSPS	12	3/4	19.0	20	45.5	0.20
H1252010-1222	A-1222-MSPS	12	3/4	19.0	22	36.5	0.21
H1252010-1225	A-1225-MSPS	12	3/4	19.0	25	48.5	0.77
H1252010-1625	A-1625-MSPS	16	1	25.4	25	51.4	0.41
H1252010-1628	A-1628-MSPS	16	1	25.4	28	40.4	0.43
H1252010-1630	A-1630-MSPS	16	1	25.4	30	54.4	0.23
H1252010-1638	A-1638-MSPS	16	1	25.4	38	60.4	0.11
H1252010-2030	A-2030-MSPS	20	1 1/4	31.8	30	56.0	0.66
H1252010-2035	A-2035-MSPS	20	1 1/4	31.8	35	48.0	0.60
H1252010-2038	A-2038-MSPS	20	1 1/4	31.8	38	62.0	0.83
H1252010-2438	A-2438-MSPS	24	1 1/2	38.1	38	62.0	1.03
H1252010-2442	A-2442-MSPS	24	1 1/2	38.1	42	52.0	0.86

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Inserts for two-piece fittings – International End Inserts



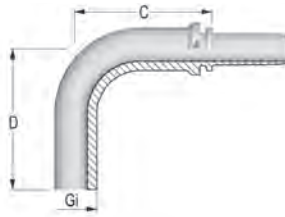
For Nuts & Cutting Rings
please refer to pages 254-256.

45° Metric Solid Bent Tube Standpipe – DIN 2353

Former Part Number	New Part Number	Dash Size	Hose ID Size		GI Tube OD (mm)	C Cut-Off Factor (mm)	D Drop (mm)	Weight Each (lbs.)
			(in.)	(mm)				
H1252040-0406	A-0406-MSP4	04	1/4	6.4	6	50.1	28.0	0.06
H1252040-0408	A-0408-MSP4	04	1/4	6.4	8	43.2	23.0	0.05
H1252040-0410	A-0410-MSP4	04	1/4	6.4	10	48.0	24.0	0.04
H1252040-0610	A-0610-MSP4	06	3/8	9.5	10	48.5	24.0	0.11
H1252040-0612	A-0612-MSP4	06	3/8	9.5	12	55.5	28.0	0.11
H1252040-0814	A-0814-MSP4	08	1/2	12.7	14	56.0	28.5	0.22
H1252040-0815	A-0815-MSP4	08	1/2	12.7	15	62.6	28.5	0.17
H1252040-0816	A-0816-MSP4	08	1/2	12.7	16	63.3	32.0	0.18
H1252040-0818	A-0818-MSP4	08	1/2	12.7	18	72.0	30.5	0.20
H1252040-1018	A-1018-MSP4	10	5/8	15.9	18	64.0	32.0	0.20
H1252040-1020	A-1020-MSP4	10	5/8	15.9	20	72.0	37.0	0.20
H1252040-1022	A-1022-MSP4	10	5/8	15.9	22	72.0	37.0	0.25
H1252040-1220	A-1220-MSP4	12	3/4	19.0	20	85.0	37.0	0.22
H1252040-1222	A-1222-MSP4	12	3/4	19.0	22	74.3	37.0	0.27
H1252040-1225	A-1225-MSP4	12	3/4	19.0	25	83.0	44.0	0.40
H1252040-1625	A-1625-MSP4	16	1	25.4	25	102.3	55.0	0.44

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Nuts and Cutting Rings for DIN 24° Tube Connections



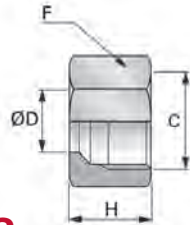
For Nuts & Cutting Rings
please refer to pages 254-256.

90° Metric Solid Bent Tube Standpipe – DIN 2353

Former Part Number	New Part Number	Dash Size	Hose ID Size		GI Tube OD (mm)	C Cut-Off Factor (mm)	D Drop (mm)	Weight Each (lbs.)
			(in.)	(mm)				
H1252090-0406	A-0406-MSP9	04	1/4	6.4	6	25.4	36	0.04
H1252090-0408	A-0408-MSP9	04	1/4	6.4	8	25.9	44	0.06
H1252090-0410	A-0410-MSP9	04	1/4	6.4	10	30.6	42	0.08
H1252090-0610	A-0610-MSP9	06	3/8	9.5	10	30.7	42	0.08
H1252090-0612	A-0612-MSP9	06	3/8	9.5	12	35.0	50	0.13
H1252090-0814	A-0814-MSP9	08	1/2	12.7	14	39.0	52.0	0.16
H1252090-0815	A-0815-MSP9	08	1/2	12.7	15	44.7	57.0	0.17
H1252090-0816	A-0816-MSP9	08	1/2	12.7	16	43.7	64.0	0.24
H1252090-0818	A-0818-MSP9	08	1/2	12.7	18	58.1	59.0	0.37
H1252090-1018	A-1018-MSP9	10	5/8	15.9	18	52.2	58.0	0.27
H1252090-1020	A-1020-MSP9	10	5/8	15.9	20	62.6	70.0	0.45
H1252090-1022	A-1022-MSP9	10	5/8	15.9	22	49.4	64.0	0.35
H1252090-1220	A-1220-MSP9	12	3/4	19.0	20	63.4	70.0	0.38
H1252090-1222	A-1222-MSP9	12	3/4	19.0	22	53.1	67.5	0.44
H1252090-1225	A-1225-MSP9	12	3/4	19.0	25	63.2	85.0	0.77
H1252090-1625	A-1625-MSP9	16	1	25.4	25	73.1	98.5	0.82
H1252090-1628	A-1628-MSP9	16	1	25.4	28	73.1	89.5	0.88
H1252090-1630	A-1630-MSP9	16	1	25.4	30	73.1	102.5	1.47

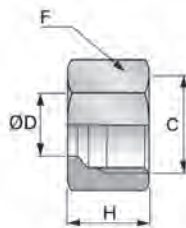
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Nuts and Cutting Rings for DIN 24° Tube Connections



Nut DIN 24° Light Series

Former Part Number	New Part Number	OD (mm)	C (mm)	F (mm)	H (mm)	Weight Each (lbs.)
R1A-0004002100	MTN-6L12X1.5	6	M12X1.5	14	14.5	0.02
R1A-0004052100	MTN-8L14X1.5	8	M14X1.5	17	14.5	0.03
R1A-0004102100	MTN-10L16X1.5	10	M16X1.5	19	15.5	0.04
R1A-0004152100	MTN-12L18X1.5	12	M18X1.5	22	15.5	0.05
R1A-0004202100	MTN-15L22X1.5	15	M22X1.5	27	17.0	0.09
R1A-0004252100	MTN-18L26X1.5	18	M26X1.5	32	18.0	0.13
R1A-0004302100	MTN-22L30X2	22	M30X2	36	20.0	0.17
R1A-0004352100	MTN-28L36X2	28	M36X2	41	21.0	0.20
R1A-0004402100	MTN-35L45X2	35	M45X2	50	24.0	0.30
R1A-0004452100	MTN-42L52X2	42	M52X2	60	24.0	0.48

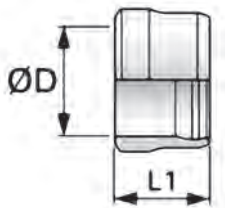


Nut DIN 24° Heavy Series

Former Part Number	New Part Number	OD (mm)	C (mm)	F (mm)	H (mm)	Weight Each (lbs.)
R1A-0004502100	MTN-6H14X1.5	6	M14X1.5	17	16.5	0.04
R1A-0004552100	MTN-8H16X1.5	8	M16X1.5	19	16.5	0.04
R1A-0004602100	MTN-10H18X1.5	10	M18X1.5	22	17.5	0.07
R1A-0004652100	MTN-12H20X1.5	12	M20X1.5	24	17.5	0.08
R1A-0004702100	MTN-14H22X1.5	14	M22X1.5	27	20.5	0.11
R1A-0004752100	MTN-16H24X1.5	16	M24X1.5	30	20.5	0.14
R1A-0004802100	MTN-20H30X2	20	M30X2	36	24.0	0.22
R1A-0004852100	MTN-25H36X2	25	M36X2	46	27.0	0.44
R1A-0004902100	MTN-30H42X2	30	M42X2	50	29.0	0.49
R1A-0004952100	MTN-38H52X2	38	M52X2	60	32.5	0.68

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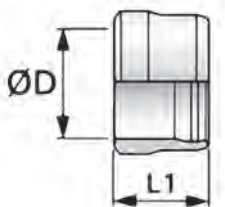
Nuts and Cutting Rings for DIN 24° Tube Connections



Double Cutting Ring DIN 24° Light Series

Former Part Number	New Part Number	OD (mm)	L1 (mm)	Weight Each (lbs.)
R1A-0010002000	MBS-06LH	6	9.5	0.01
R1A-0010052000	MBS-08LH	8	10.0	0.01
R1A-0010102000	MBS-10LH	10	10.5	0.01
R1A-0010152000	MBS-12LH	12	10.5	0.01
R1A-0010202000	MBS-15L	15	10.5	0.01
R1A-0010252000	MBS-18L	18	10.5	0.02
R1A-0010302000	MBS-22L	22	11.0	0.02
R1A-0010352000	MBS-28L	28	11.0	0.03
R1A-0010402000	MBS-35L	35	13.5	0.05
R1A-0010452000	MBS-42L	42	13.5	0.05

Inserts for two-piece fittings – International End Inserts



Double Cutting Ring DIN 24° Heavy Series

Former Part Number	New Part Number	OD (mm)	L1 (mm)	Weight Each (lbs.)
R1A-0010702000	MBS-14H	14	10.5	0.01
R1A-0010752000	MBS-16H	16	10.5	0.02
R1A-0010802000	MBS-20H	20	13.0	0.03
R1A-0010852000	MBS-25H	25	13.5	0.04
R1A-0010902000	MBS-30H	30	13.5	0.04
R1A-0010952000	MBS-38H	38	13.5	0.05

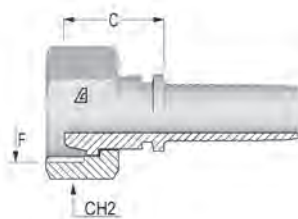
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Inserts for two-piece fittings – International End Inserts



Metric Male French Type (GAZ)

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Size	Tube OD (mm)	C Cut-Off Factor (mm)	CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)					
H1211810-0520	A-0520-MMFR	05	5/16	7.9	20x1.5	13.25	25.3	22	0.08
H1211810-0620	A-0620-MMFR	06	3/8	9.5	20x1.5	13.25	25.3	22	0.10
H1211810-0824	A-0824-MMFR	08	1/2	12.7	24x1.5	16.75	27.1	24	0.15
H1211810-1030	A-1030-MMFR	10	5/8	15.9	30x1.5	21.25	31.1	30	0.23
H1211810-1236	A-1236-MMFR	12	3/4	19.0	36x1.5	26.75	33.6	36	0.34

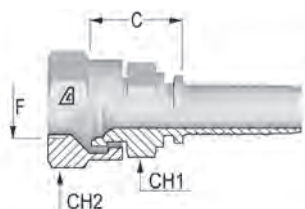


Metric Female French Type (GAZ)

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Size (mmxTPmm)	Tube OD (mm)	C Cut-Off Factor (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)					
H1221813-0420	A-0420-FMFS	04	1/4	6.4	M20x1.5	13.25	23.8	24	0.13
H1221813-0520	A-0520-FMFS	05	5/16	7.9	M20x1.5	13.25	23.8	24	0.14
H1221813-0620	A-0620-FMFS	06	3/8	9.5	M20x1.5	13.25	23.8	24	0.14
H1221813-0624	A-0624-FMFS	06	3/8	9.5	M24x1.5	16.75	26.8	30	0.15
H1221813-0824	A-0824-FMFS	08	1/2	12.7	M24x1.5	16.75	26.8	30	0.22
H1221813-0830	A-0830-FMFS	08	1/2	12.7	M30x1.5	21.25	25.6	36	0.33
H1221813-1030	A-1030-FMFS	10	5/8	15.9	M30x1.5	21.25	26.6	36	0.40
H1221813-1236	A-1236-FMFS	12	3/4	19.0	M36x1.5	26.75	27.0	42	0.46

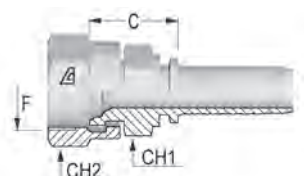
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Inserts for two-piece fittings – International End Inserts



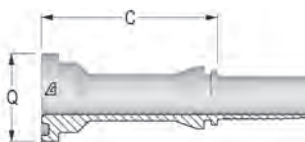
JIS Female Swivel 30° Seat – B 8363 Type F

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H122381Z-0404	A-0404-FJIS	04	1/4	6.4	04	1/4-19	20.8	17	19	0.09
H122381Z-0606	A-0606-FJIS	06	3/8	9.5	06	3/8-19	21.8	19	22	0.13
H122381Z-0808	A-0808-FJIS	08	1/2	12.7	08	1/2-14	23.6	22	27	0.20
H122381Z-1212	A-1212-FJIS	12	3/4	19.0	12	3/4-14	27.1	30	36	0.41
H122381Z-1616	A-1616-FJIS	16	1	25.4	16	1-11	32.9	36	41	0.62
H1223812-2020	A-2020-FJIS	20	1 1/4	31.8	20	1 1/4-11	39.5	46	50	1.19
H1223812-2424	A-2424-FJIS	24	1 1/2	38.1	24	1 1/2-11	41.5	50	55	1.48



Komatsu Female

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Size (mmxTPmm)	C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)					
H1224011-0414	A-0414-FKOS	04	1/4	6.4	M14x1.5	20.7	17	19	0.09
H1224011-0618	A-0618-FKOS	06	3/8	9.5	M18x1.5	22.8	19	22	0.13
H1224011-0822	A-0822-FKOS	08	1/2	12.7	M22x1.5	24.6	22	27	0.20
H1224011-1024	A-1024-FKOS	10	5/8	15.9	M24x1.5	29.2	30	32	0.40
H1224011-1230	A-1230-FKOS	12	3/4	19.0	M30x1.5	27.5	30	36	0.44
H1224011-1633	A-1633-FKOS	16	1	25.4	M33x1.5	35.7	36	41	0.77
H1224011-2036	A-2036-FKOS	20	1 1/4	31.8	M36x1.5	43.5	46	46	1.29
H1224011-2442	A-2442-FKOS	24	1 1/2	38.1	M42x1.5	44.0	55	55	1.93

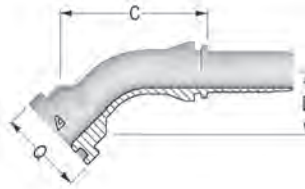


Komatsu Straight Solid One-Piece O-Ring Flange

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)		
H1244110-1010	A-1010-KFLS	10	5/8	15.9	1.34	34	46.6	0.30

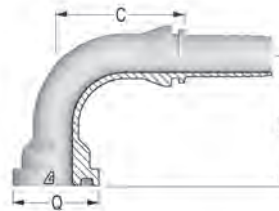
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Inserts for two-piece fittings – International End Inserts



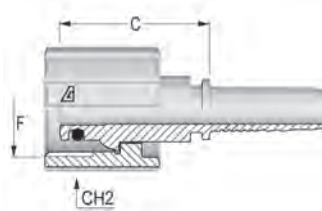
Komatsu 45° Solid One-Piece O-Ring Flange

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)			
H1244140-1010	A-1010-KF45	10	5/8	15.9	1.34	34	59	23	0.33



Komatsu 90° Solid One-Piece O-Ring Flange

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)			
H1244190-1010	A-1010-KF90	10	5/8	15.9	1.34	34	51	51	0.39



Pressure Wash Female (Type K)

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread Size (mmxTPmm)	C Cut-Off Factor (mm)	Hex Dia. 2 (mm)	Weight Each (lbs.)
			(in.)	(mm)				
H1224914-0422	A-0422-FPWS	04	1/4	6.4	M22x1.5	34	27	0.15
H1224914-0522	A-0522-FPWS	05	5/16	7.9	M22x1.5	34	27	0.15
H1224914-0622	A-0622-FPWS	06	3/8	9.5	M22x1.5	34	27	0.16

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Hose Ferrule Part Number Configurator



HOSES

C121

C122

C12A

C124

C126

TWO PIECE FERRULES
(STANDARD & INTERLOCK)

H12 STANDARD
INSERTS

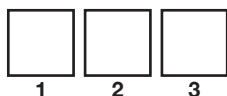
H14 AND H1T
INTERLOCK INSERTS

CRIMPERS

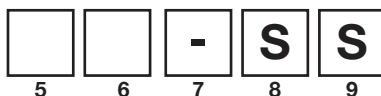
TECHNICAL
INFORMATION

Optional for Stainless Steel Fittings

Ferrule Type



Ferrule Size



No Skive Ferrule

AF1 – H1200AD1
AF2 – H1200AD2
AF3 – H1200203
AF4 – H1200204
AFB – H1200202
AFP – H1200TP0
AFQ – H1200101
AFT – H2200TF0
AFX – H1200TX2
PFR – PiranhaFlex

Skive Ferrule

ASK – H1100SK1
AS1 – H1100104
AS2 – H1100204
AS4 – H1100404
KS1 – H1K00170

Interlock Ferrule

XF1 – H1400301
XF2 – H1400200
XF3 – H1400300
ZF1 – H1T00600

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

Fitting Configuration Chart – Ferrule Type Explanation

AF1 – H1200AD1 – Two piece non-skive ferrule for use with "A" insert on single wire braided and compact hydraulic hoses, Flexor 1 (TR1SN, TR1MT, TR1SNTT), Flexopak 2 (TF2MT, TF2ST, TF2LT), Alfatech 3000 (AT3KMT, AT3KST), Alfajet 210 (TAJ3BK/BU) and Alfajet 400 (TAJ5BK/BU).

AF2 – H1200AD2 – Two piece non-skive ferrule for use with "A" insert on double wire braided hydraulic hoses, Flexor 2 (TR2SN, TR2MT, TR2SNTT).

AF3 – H1200203 – Two piece non-skive ferrule for use with "A" insert on single wire braided hydraulic hose Flexor 5 (TR5, TR5TT) and textile braided Flexor 4 (TR4XF).

AF4 – H1200204 – Two piece non-skive ferrule for use with "A" insert on spiral wire reinforced hoses Flexor 12 (TR12).

AFB – H1200202 – Two piece non-skive ferrule for use with "A" insert on double wire braided hydraulic hoses, Flexor 2 (TR2SN) While supplies last.

AFP – H1200TP0 – Two piece non-skive ferrule for use with "A" insert on R17 hydraulic hose, AT3KMT and AT3KST in sizes 3/16" through 1/2" size.

AFQ – H1200101 – Two piece non-skive ferrule for use with "A" insert on single wire braided compact hydraulic hose Alfatech 3000 (AT3KMT, AT3KST), Alfajet 210 (TAJ3BK/BU) while supplies last.

AFT – H2200TF0 – Two piece non-skive stainless steel ferrule for use with "A" insert on stainless braided PTFE hose (TR14TB).

AFX – H1200TX2 – Two piece non-skive ferrule for use with "A" insert on textile braided hydraulic hose Flexor 3 (TR3) and Flexor 4 (TR4XF).

PFR – PiranhaFlex – Two piece non-skive ferrule for use with "A" insert on all PiranhaFlex hydraulic hoses, R7, R8 and R18 styles.

ASK – H1100SK1 – Two piece skive ferrule for use with "A" insert on single wire braided and compact hydraulic hoses, Flexor 1 (TR1SN, TR1MT, TR1SNTT), Flexopak 2 (TF2MT, TF2ST, TF2LT), Alfatech 3000 (AT3KMT, AT3KST), Alfajet 210 (TAJ3BK/BU) and Alfajet 400 (TAJ5BK/BU).

AS1 – H1100104 – Two piece skive ferrule for use with "A" insert on Flexor 1 (TR1SN, TR1MT, TR1SNTT) 1 1/4" thru 2" and Flexopak 2 (TF2MT) 1 1/4" thru 1 1/2".

AS2 – H1100204 – Two piece skive ferrule for use with "A" insert on one and two wire braided hoses (TR1SN/MT/TT, TR2SN/MT/TT), Flexopak 2 (TF2MT/ST) and some spiral wire reinforced hoses while supplies last.

AS4 – H1100404 – Two piece skive ferrule for use with "A" insert on two wire braided hose (TR2SN/MT/TT) and spiral reinforced hoses (TR12, 4SP, R15) and Alfabiotech.

KS1 – H1K00170 – Two piece skive ferrule for use with "K" insert on Flexor Rig-48.

XF1 – H1400301 – Two piece Interlock ferrule for use with "X" Interlock insert on spiral wire reinforced hoses.

XF2 – H1400200 – Two piece Interlock ferrule for use with "X" Interlock insert on spiral wire reinforced hoses.

XF3 – H1400300 – Two Piece Interlock ferrule for use with "X" Interlock insert on spiral wire reinforced hoses to be able to crimp them using the KD200 crimp system.

ZF1 – H1T00600 – Two piece Interlock ferrule for use with "Z" Interlock insert on Alfatech 6000-32, 2" size.

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Ferrule Selection Chart

Interlock Ferrule For Interlock Fittings



Former Part Numbers

Hose	-06	-08	-10	-12	-16	-20	-24	-32	-40	-48
	DN 10	DN 12	DN 16	DN 19	DN 25	DN 32	DN 38	DN 51	DN 63	DN 76
	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2	2 1/2	3
FLEXOR R12 (TR12)		H1400200	H1400200	H1400200	H1400200	H1400200	H1400200	H1400200	H1400301	
FLEXOR R13 (TR13)				H1400200	H1400200	H1400301	H1400301	H1400301	H1T00600	
FLEXOR (T4SP)	H1400200	H1400200	H1400200	H1400200	H1400200					
FLEXOR (T4SH)				H1400200	H1400200	H1400200	H1400200	H1400200		
ALFABIOTECH 3000										H1T00600
ALFABIOTECH 4000							H1400200	H1400200		
ALFABIOTECH 5000				H1400200	H1400200	H1400200	H1400301	H1400301		
ALFABIOTECH 5000+				H1400200	H1400200					
ALFABIOTECH 6000		H1400200	H1400301	H1400200	H1400200	H1400301	H1400301			
AT4K-4S		H1400200	H1400200	H1400200	H1400200	H1400200	H1400200	H1400200		
AT5K-4S			H1400200	H1400200	H1400200	H1400200				
AT5K-6S						H1400301	H1400301	H1400301	H1T00600	
AT6K-4S/6S	H1400200	H1400200	H1400301	H1400200	H1400200	H1400301	H1400301	H1T00600		
AT7K-4S/6S			H1400301			H1400301	H1400301			
AT8K-6S				H1400301	H1400301					
FLEXOR RIG					H1400200	H1400301	H1400301	H1400301	H1T00600	
FIRESAFE 5000					H1400200	H1400200	H1400301	H1400301		

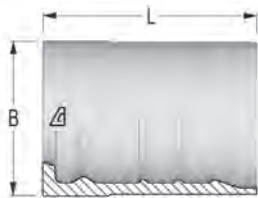
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New Part Numbers

Hose	-06	-08	-10	-12	-16	-20	-24	-32	-40	-48
	DN 10	DN 12	DN 16	DN 19	DN 25	DN 32	DN 38	DN 51	DN 63	DN 76
	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2	2 1/2	3
FLEXOR R12 (TR12)		XF2	XF2	XF2	XF2	XF2	XF2	XF2	XF1	
FLEXOR R13 (TR13)				XF2	XF2	XF1	XF1	XF1	ZF1	
FLEXOR (T4SP)	XF2	XF2	XF2	XF2	XF2					
FLEXOR (T4SH)				XF2	XF2	XF2	XF2	XF2		
ALFABIOTECH 3000										ZF1
ALFABIOTECH 4000							XF2	XF2		
ALFABIOTECH 5000				XF2	XF2	XF2	XF1	XF1		
ALFABIOTECH 5000+				XF2	XF2					
ALFABIOTECH 6000		XF2	XF1	XF2	XF2	XF1	XF1			
AT4K-4S		XF2	XF2	XF2	XF2	XF2	XF2	XF2		
AT5K-4S			XF2	XF2	XF2	XF2				
AT5K-6S						XF1	XF1	XF1	ZF1	
AT6K-4S/6S	XF2	XF2	XF1	XF2	XF2	XF1	XF1	ZF1		
AT7K-4S/6S			XF1			XF1	XF1			
AT8K-6S				XF1	XF1					
FLEXOR RIG					XF2	XF1	XF1	XF1	ZF1	
FIRESAFE 5000					XF2	XF2	XF1	XF1		

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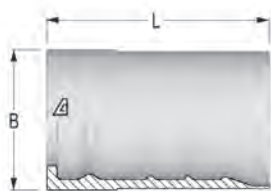
Interlock Skive Ferrules



H1400301/XF1

Former Part Number	New Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight Each (lbs.)
			(in.)	(mm)			
H1400301-10	XF1-10	10	5/8	15.9	35.5	57.5	0.50
H1400301-12	XF1-12	12	3/4	19.0	43.5	60.0	0.75
H1400301-16	XF1-16	16	1	25.4	52.0	75.0	1.00
H1400301-20	XF1-20	20	1 1/4	31.8	64.0	88.1	1.40
H1400301-24	XF1-24	24	1 1/2	38.1	69.5	94.1	1.90
H1400301-32	XF1-32	32	2	50.8	88.0	99.0	3.24
H1400300-32*	XF3-32*	32	2	50.8	84.5	99.0	2.45
H1400301-40	XF1-40	40	2 1/2	63.0	102.0	110.0	3.95

* Special ferrule for AT5K-32/TR13-32 hose when crimping in a KuriKrimp KD200 crimp machine



H1400200/XF2

Former Part Number	New Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight Each (lbs.)
			(in.)	(mm)			
H1400200-06	XF2-06	06	3/8	9.5	27	49.0	0.19
H1400200-08	XF2-08	08	1/2	12.7	30	52.5	0.25
H1400200-10	XF2-10	10	5/8	15.9	34	57.5	0.30
H1400200-12	XF2-12	12	3/4	19.0	38	60.1	0.32
H1400200-16	XF2-16	16	1	25.4	46	74.6	0.59
H1400200-20	XF2-20	20	1 1/4	31.8	55	88.1	1.10
H1400200-24	XF2-24	24	1 1/2	38.1	62	94.1	1.29
H1400200-32	XF2-32	32	2	50.8	78	99.1	1.98

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Fitting Configuration Chart



HOSES

C121

C122

C12A

C124

C126

TWO PIECE FERRULES
(STANDARD & INTERLOCK)

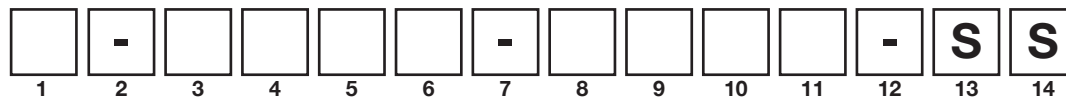
H12 STANDARD
INSERTS

H14 AND H1T
INTERLOCK INSERTS

CRIMPERS

TECHNICAL
INFORMATION

Fitting Type Hose Size Fitting Size Fitting Configuration Optional for Stainless Steel Fittings



1-Piece

B – C12A
Q – C121
C – C122
D – C124
F – C126
H – C12H
M – C12R

2-Piece

A – H12
X – H14
Z – H1T
K – H1K

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-14 or 7/8"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-14 or 7/8"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

Fitting Configuration Chart – Fitting Type Explanation

B – C12A – One piece non-skive crimp fitting for all braided hoses up to 1" ID.
Q – C121 – One piece non-skive crimp fitting for Alfatech 3000 (AT3KMT) hose and Alfajet 210 (TAJ3BK/TAJ3BU) 1/4" ID thru 1/2" ID only, while supplies last.

C – C122 – One piece non-skive crimp fitting for braided hose except Alfatech 3000 (AT3KMT) and Alfajet 210 (TAJ3BK/TAJ3BU) 1/4" ID thru 1/2" ID only, while supplies last.

D – C124 – One piece non-skive crimp fitting for SAE 100R1 and 100R2 wire braided hose and 4 wire spiral hose Flexor 12 (TR12) 1/2" ID thru 2" ID and Alfabiotech 3000 1 1/4" thru 2".

F – C126 – One piece non-skive crimp fitting for Flexor 12 (TR12), 4SH (T4SH), Flexor 13 (TR13), Alfatech 5000, Alfabiotech 5000 3/4" thru 1 1/2" and Alfabiotech 6000 3/4" thru 1 1/4".

H – C12H – One piece non-skive crimp fitting for 4SH (T4SH) in 2" size only.

M – C12R – One Piece non-skive crimp fitting for Flexor 13 (TR13) in 2" size only.

A – H12 – Two piece insert for all wire and textile braided hoses, thermoplastic hose, Flexor 4 and PTFE hose 3/16" thru 2" and Flexor 12 (TR12) 1/2" thru 1 1/2" along with some spiral wire reinforced hoses thru 1 1/2".

X – H14 – Two piece Interlock insert for spiral wire reinforced hoses. Requires both internal and external skiving and a XF1 or XF2 Interlock ferrule to perform properly.

Z – H1T – Two piece Interlock insert for Alfatech 6000 (AT6K) in 2" size only. Requires both internal and external skiving and a ZF1 Interlock ferrule to perform properly.

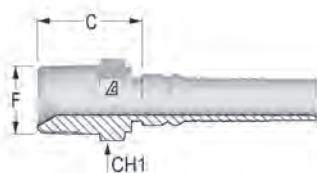
K – H1K – Two piece insert for Flexor Rig 48, 3" ID size only. Requires a KS1 skive ferrule to perform properly.

TYPE	SUFFIX	DESCRIPTION
NPTF	FNPR	Female National Pipe Rigid
	FPMS	Female Pipe Straight Mechanical Swivel
	FNPS	Female National Pipe Swivel
	MNPT	Male Pipe NPTF
	MNPS	Male National Pipe Swivel
	MPS9	Male Pipe Swivel 90 Degree
JIC	FJSH	Female JIC Single Hex Swivel
	FJDH	Female JIC Double Hex Swivel
	FJ45	Female JIC 45 Degree Swivel
	FJ9L	Female JIC 90 Degree Long Swivel
	FJ9M	Female JIC 90 Degree Medium Swivel
	FJ9S	Female JIC 90 Degree Short Swivel
SAE	MJIC	Male JIC
	FSAE	Female SAE Swivel
	MORB	Male O-Ring Boss
	MOBS	Male O-Ring Boss Swivel
	MBS9	Male O-Ring Boss Swivel 90 Degree
	MIFL	Male Inverted Flare
ORFS	MIF4	Male Inverted Flare 45 Degree
	MIF9	Male Inverted Flare 90 Degree
	MSAE	Male SAE
	FOFS	Female O-Ring Face Seal Swivel
	F030	Female O-Ring Face Seal 30 Degree Medium Swivel
	F045	Female O-Ring Face Seal 45 Degree Swivel
SAE Flange Code 61	F09L	Female O-Ring Face Seal 90 Degree Long Swivel
	F09M	Female O-Ring Face Seal 90 Degree Medium Swivel
	F09S	Female O-Ring Face Seal 90 Degree Short Swivel
	MOFS	Male O-Ring Face Seal
	C61S	Code 61 Flange Straight
	C612	Code 61 Flange 22 Degree
SAE Flange Code 62	C613	Code 61 Flange 30 Degree
	C614	Code 61 Flange 45 Degree
	C616	Code 61 Flange 60 Degree
	C619	Code 61 Flange 90 Degree
	C62S	Code 62 Flange Straight
	C624	Code 62 Flange 45 Degree
	C629	Code 62 Flange 90 Degree

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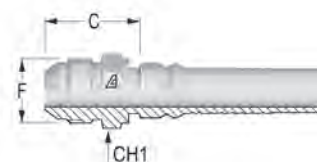
Fitting Type	Hose Size	Fitting Size
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Interlock Inserts – US End Configurations



NPTF Solid Male 60° Seat Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
H1412810-0606	X-0606-MNPT	06	3/8	9.5	06	3/8-19	26.0	19	0.17
H1412810-0808	X-0808-MNPT	08	1/2	12.7	08	1/2-14	32.0	22	0.21
H1412810-1012	X-1012-MNPT	10	5/8	15.9	12	3/4-14	32.0	27	0.28
H1412810-1212	X-1212-MNPT	12	3/4	19.0	12	3/4-14	32.0	27	0.35
H1412810-1616	X-1616-MNPT	16	1	25.4	16	1-11 1/2	41.0	36	0.70
H1412810-2020	X-2020-MNPT	20	1 1/4	31.8	20	1 1/4-11 1/2	46.2	46	1.21
H1412810-2424	X-2424-MNPT	24	1 1/2	38.1	24	1 1/2-11 1/2	47.5	50	1.68
H1412810-3232	X-3232-MNPT	32	2	50.8	32	2-11 1/2	51.0	65	2.48

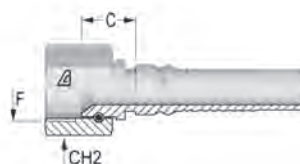


JIC Solid Male 37° Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
H1412510-0808	X-0808-MJIC	08	1/2	12.7	08	3/4-16	28.0	19	0.34
H1412510-1212	X-1212-MJIC	12	3/4	19.0	12	1 1/16-12	39.1	36	0.43
H1412510-1616	X-1616-MJIC	16	1	25.4	16	1 5/16-12	40.1	36	0.50
H1412510-2020	X-2020-MJIC	20	1 1/4	31.8	20	1 5/8-12	45.5	46	0.68
H1412510-2424	X-2424-MJIC	24	1 1/2	38.1	24	1 7/8-12	51.0	50	1.20
H1412510-3232	X-3232-MJIC	32	2	50.8	32	2 1/2-12	58.9	65	1.76

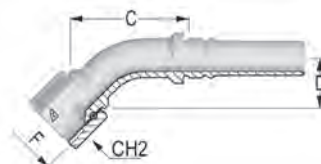
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Interlock Inserts – US End Configurations



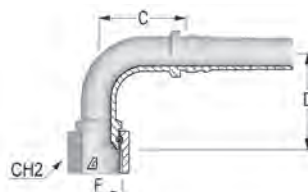
JIC Swivel Female 37° Seat Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)			
H1422512-1212	X-1212-FJSH	12	3/4	19.0	12	1 1/16-12	18.7	32	0.41
H1422512-1616	X-1616-FJSH	16	1	25.4	16	1 5/16-12	22.5	38	0.66
H1422512-2020	X-2020-FJSH	20	1 1/4	31.8	20	1 5/8-12	25.7	50	1.24
H1422512-2424	X-2424-FJSH	24	1 1/2	38.1	24	1 7/8-12	29.0	55	1.72
H1422512-3232	X-3232-FJSH	32	2	50.8	32	2 1/2-12	34.0	70	2.80



45° JIC Swivel Female 37° Seat Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1422542-1212	X-1212-FJ45	12	3/4	19.0	12	1 1/16-12	66.0	27.5	32	0.69
H1422542-1616	X-1616-FJ45	16	1	25.4	16	1 5/16-12	79.5	31.0	38	1.24
H1422542-2020	X-2020-FJ45	20	1 1/4	31.8	20	1 5/8-12	93.7	37.0	50	1.73
H1422542-2424	X-2424-FJ45	24	1 1/2	38.1	24	1 7/8-12	107.0	38.0	55	2.78
H1422542-3232	X-3232-FJ45	32	2	50.8	32	2 1/2-12	148.0	51.5	70	4.96

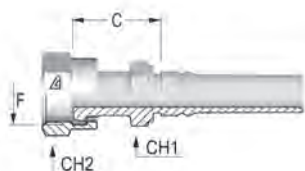


90° JIC Swivel Female 37° Seat Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1422592-1212	X-1212-FJ9M	12	3/4	19.0	12	1 1/16-12	52.0	57.0	32	0.66
H1422592-1616	X-1616-FJ9M	16	1	25.4	16	1 5/16-12	70.0	67.0	38	0.94
H1422592-2020	X-2020-FJ9M	20	1 1/4	31.8	20	1 5/8-12	79.2	78.0	50	2.10
H1422592-2424	X-2424-FJ9M	24	1 1/2	38.1	24	1 7/8-12	94.5	92.0	55	3.09
H1422592-3232	X-3232-FJ9M	32	2	50.8	32	2 1/2-12	146.0	120.5	70	5.51

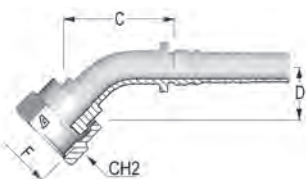
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Interlock Inserts – US End Configurations



ORFS Straight Female – Double Hex Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1422411-1012	X-1012-FOFS	10	5/8	15.9	12	13/16-12	40.0	30	36	0.28
H1422411-1212	X-1212-FOFS	12	3/4	19.0	12	13/16-12	40.0	30	36	0.59
H1422411-1216	X-1216-FOFS	12	3/4	19.0	16	17/16-12	43.0	36	41	0.82
H1422411-1616	X-1616-FOFS	16	1	25.4	16	17/16-12	47.0	36	41	0.90
H1422411-1620	X-1620-FOFS	16	1	25.4	20	1 11/16-12	49.0	46	50	1.28
H1422411-2020	X-2020-FOFS	20	1 1/4	31.8	20	1 11/16-12	47.2	46	50	1.46
H1422411-2424	X-2424-FOFS	24	1 1/2	38.1	24	1 7/8-12	52.0	50	60	1.70

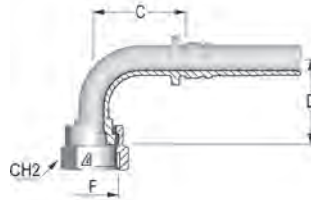


45° ORFS Female Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1422441-1212	X-1212-F045	12	3/4	19.0	12	13/16-12	77.0	26	36	0.22
H1422441-1216	X-1216-F045	12	3/4	19.0	16	1 7/16-12	68.4	28	41	0.79
H1422441-1616	X-1616-F045	16	1	25.4	16	1 7/16-12	75.0	28	41	1.10
H1422441-1620	X-1620-F045	16	1	25.4	20	1 11/16-12	83.4	28	50	1.35
H1422441-2020	X-2020-F045	20	1 1/4	31.8	20	1 11/16-12	100.7	33	50	1.89

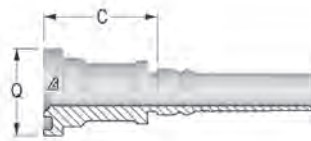
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Interlock Inserts – US End Configurations



90° ORFS Female Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	Size (in. TPI)				
H1422491-1012	X-1012-F09M	10	5/8	15.9	12	1 3/16-12	48.1	58	36	0.23
H1422491-1212	X-1212-F09M	12	3/4	19.0	12	1 3/16-12	64.2	58	36	0.86
H1422491-1216	X-1216-F09M	12	3/4	19.0	16	1 7/16-12	66.2	58	41	1.10
H1422491-1616	X-1616-F09M	16	1	25.4	16	1 7/16-12	75.2	66	41	1.20
H1422491-1620	X-1620-F09M	16	1	25.4	20	1 11/16-12	73.2	66	50	1.47
H1422491-2020	X-2020-F09M	20	1 1/4	31.8	20	1 11/16-12	91.7	81	50	1.98

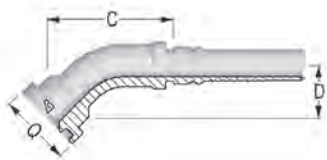


O-Ring Flange SAE J518 Code 61 Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	Max WP (psi)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)			
H1443310-1012	X-1012-C61S	10	5/8	15.9	1.50	38.1	40.0	5000	0.44
H1443310-1212	X-1212-C61S	12	3/4	19.0	1.50	38.1	40.0	5000	0.61
H1443310-1216	X-1216-C61S	12	3/4	19.0	1.75	44.5	48.0	5000	0.66
H1443310-1616	X-1616-C61S	16	1	25.4	1.75	44.5	49.0	5000	0.93
H1443310-1620	X-1620-C61S	16	1	25.4	2.00	50.8	51.5	4000	0.95
H1443310-2020	X-2020-C61S	20	1 1/4	31.8	2.00	50.8	52.7	4000	1.32
H1443310-2024	X-2024-C61S	20	1 1/4	31.8	2.38	60.3	55.7	3000	1.59
H1443310-2424	X-2424-C61S	24	1 1/2	38.1	2.38	60.3	56.0	3000	1.81
H1443310-2432	X-2432-C61S	24	1 1/2	38.1	2.81	71.4	67.5	3000	2.65
H1443310-3232	X-3232-C61S	32	2	50.8	2.81	71.4	69.0	3000	2.87

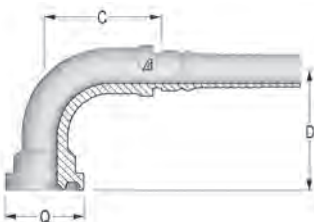
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Interlock Inserts – US End Configurations



45° O-Ring Flange SAE J518 Code 61 Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max WP (psi)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
H1443340-0808	X-0808-C614	08	1/2	12.7	1.19	30.2	51.0	22.0	5000	0.39
H1443340-1212	X-1212-C614	12	3/4	19.0	1.50	38.1	68.0	25.0	5000	0.63
H1443340-1216	X-1216-C614	12	3/4	19.0	1.75	44.5	92.5	28.0	5000	0.89
H1443340-1616	X-1616-C614	16	1	25.4	1.75	44.5	82.5	29.0	5000	0.99
H1443340-1620	X-1620-C614	16	1	25.4	2.00	50.8	95.6	30.0	4000	1.41
H1443340-2020	X-2020-C614	20	1 1/4	31.8	2.00	50.8	100.9	32.5	4000	0.88
H1443340-2024	X-2024-C614	20	1 1/4	31.8	2.38	60.3	92.8	40.0	3000	1.76
H1443340-2424	X-2424-C614	24	1 1/2	38.1	2.38	60.3	103.7	43.0	3000	2.65
H1443340-2432	X-2432-C614	24	1 1/2	38.1	2.81	71.4	132.7	56.5	3000	2.87
H1443340-3232	X-3232-C614	32	2	50.8	2.81	71.4	138.1	54.0	3000	3.53

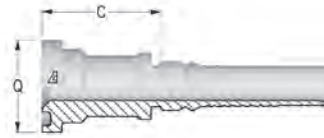


90° O-Ring Flange SAE J518 Code 61 Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max WP (psi)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
H1443390-1012	X-1012-C619	10	5/8	15.9	1.50	38.1	53.0	55	5000	0.61
H1443390-1212	X-1212-C619	12	3/4	19.0	1.50	38.1	58.0	55	5000	0.74
H1443390-1216	X-1216-C619	12	3/4	19.0	1.75	44.5	64.0	59	5000	0.85
H1443390-1616	X-1616-C619	16	1	25.4	1.75	44.5	72.2	64	5000	1.10
H1443390-1620	X-1620-C619	16	1	25.4	2.00	50.8	70.2	69	4000	1.22
H1443390-2020	X-2020-C619	20	1 1/4	31.8	2.00	50.8	86.2	81	4000	1.65
H1443390-2024	X-2024-C619	20	1 1/4	31.8	2.38	60.3	81.2	85	3000	2.21
H1443390-2424	X-2424-C619	24	1 1/2	38.1	2.38	60.3	95.5	93	3000	2.51
H1443390-2432	X-2432-C619	24	1 1/2	38.1	2.81	71.4	130.3	97	3000	3.26
H1443390-3232	X-3232-C619	32	2	50.8	2.81	71.4	134.4	130	3000	4.41

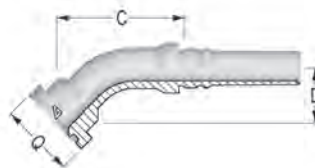
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Interlock Inserts – US End Configurations



O-Ring Flange SAE J518 Code 62 Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	Max WP (psi)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)			
H1443610-1012	X-1012-C62S	10	5/8	15.9	1.63	41.3	50.0	6000	0.55
H1443610-1212	X-1212-C62S	12	3/4	19.0	1.63	41.3	50.0	6000	0.64
H1443610-1216	X-1216-C62S	12	3/4	19.0	1.88	47.6	53.0	6000	0.79
H1443610-1616	X-1616-C62S	16	1	25.4	1.88	47.6	54.0	6000	0.99
H1443610-1620	X-1620-C62S	16	1	25.4	2.13	54.0	61.0	6000	1.25
H1443610-2020	X-2020-C62S	20	1 1/4	31.8	2.13	54.0	62.2	6000	1.48
H1443610-2024	X-2024-C62S	20	1 1/4	31.8	2.50	63.5	68.2	6000	1.85
H1443610-2424	X-2424-C62S	24	1 1/2	38.1	2.50	63.5	68.5	6000	2.21
H1443610-2432	X-2432-C62S	24	1 1/2	38.1	3.13	79.4	80.5	6000	3.75
H1443610-3232	X-3232-C62S	32	2	50.8	3.13	79.4	87.0	6000	3.11

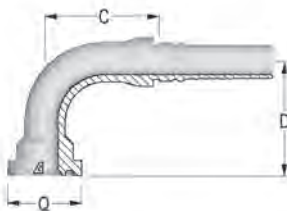


45° O-Ring Flange SAE J518 Code 62 Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max WP (psi)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
H1443640-1212	X-1212-C624	12	3/4	19.0	1.63	41.3	72.1	30.0	6000	0.74
H1443640-1216	X-1216-C624	12	3/4	19.0	1.88	47.6	76.8	33.0	6000	1.05
H1443640-1616	X-1616-C624	16	1	25.4	1.88	47.6	94.8	35.0	6000	1.12
H1443640-1620	X-1620-C624	16	1	25.4	2.13	54.0	91.3	44.0	6000	1.43
H1443640-2020	X-2020-C624	20	1 1/4	31.8	2.13	54.0	102.0	39.5	6000	2.08
H1443640-2024	X-2024-C624	20	1 1/4	31.8	2.50	63.5	111.7	48.0	6000	1.98
H1443640-2424	X-2424-C624	24	1 1/2	38.1	2.50	63.5	136.3	48.0	6000	2.67
H1443640-2432	X-2432-C624	24	1 1/2	38.1	3.13	79.4	129.1	55.0	6000	3.97
H1443640-3232	X-3232-C624	32	2	50.8	3.13	79.4	160.6	63.0	6000	5.14

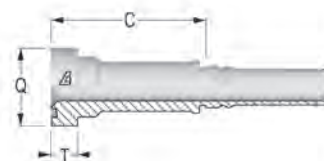
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Interlock Inserts – US End Configurations



90° O-Ring Flange SAE J518 Code 62 Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max WP (psi)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
H1443690-1008	X-1008-C629	10	5/8	15.9	1.25	31.8	47.0	55.0	6000	0.63
H1443690-1012	X-1012-C629	10	5/8	15.9	1.63	41.3	47.0	55.0	6000	0.64
H1443690-1212	X-1212-C629	12	3/4	19.0	1.63	41.3	61.2	64.0	6000	0.80
H1443690-1216	X-1216-C629	12	3/4	19.0	1.88	47.6	61.2	66.0	6000	1.06
H1443690-1616	X-1616-C629	16	1	25.4	1.88	47.6	70.4	74.0	6000	1.54
H1443690-1620	X-1620-C629	16	1	25.4	2.13	54.0	77.2	80.0	6000	1.62
H1443690-2020	X-2020-C629	20	1 1/4	31.8	2.13	54.0	88.2	91.0	6000	2.47
H1443690-2024	X-2024-C629	20	1 1/4	31.8	2.50	63.5	92.9	103.5	6000	3.08
H1443690-2424	X-2424-C629	24	1 1/2	38.1	2.50	63.5	106.3	109.0	6000	2.69
H1443690-2432	X-2432-C629	24	1 1/2	38.1	3.13	79.4	106.5	121.5	6000	4.41
H1443690-3232	X-3232-C629	32	2	50.8	3.13	79.4	149.0	138.5	6000	6.17

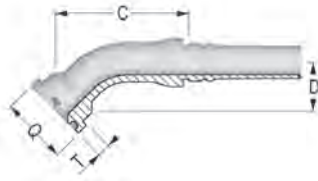


O-Ring SuperCAT 6000 PSI Flange Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	T (mm)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)			
H1443910-1212	X-1212-CFLS	12	3/4	19.0	1.63	41.3	82.0	14.3	0.64
H1443910-1216	X-1216-CFLS	12	3/4	19.0	1.88	47.6	82.0	14.3	0.79
H1443910-1616	X-1616-CFLS	16	1	25.4	1.88	47.6	90.0	14.3	0.99
H1443910-1620	X-1620-CFLS	16	1	25.4	2.13	54.0	90.0	14.3	1.25
H1443910-2020	X-2020-CFLS	20	1 1/4	31.8	2.13	54.0	86.2	14.3	1.48
H1443910-2024	X-2024-CFLS	20	1 1/4	31.8	2.50	63.5	83.2	14.3	1.85

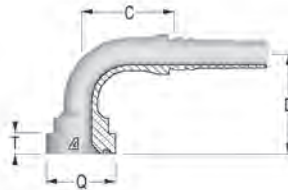
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Interlock Inserts – US End Configurations



45° O-Ring SuperCAT 6000 PSI Flange Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	T (mm)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
H1443940-1212	X-1212-CFL4	12	3/4	19.0	1.63	41.3	83	34.0	14.3	0.74
H1443940-1216	X-1216-CFL4	12	3/4	19.0	1.88	47.6	87	34.0	14.3	1.05
H1443940-1616	X-1616-CFL4	16	1	25.4	1.88	47.6	94	40.0	14.3	1.12
H1443940-1620	X-1620-CFL4	16	1	25.4	2.13	54.0	95	40.0	14.3	1.43
H1443940-2020	X-2020-CFL4	20	1 1/4	31.8	2.13	54.0	104	43.0	14.3	2.08
H1443940-2024	X-2024-CFL4	20	1 1/4	31.8	2.50	63.5	110	49.5	14.3	1.98

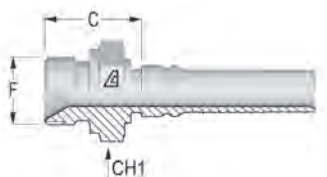


90° O-Ring SuperCAT 6000 PSI Flange Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	T (mm)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
H1443990-1212	X-1212-CFL9	12	3/4	19.0	1.63	41.3	64	67.0	14.3	0.80
H1443990-1216	X-1216-CFL9	12	3/4	19.0	1.88	47.6	65	70.0	14.3	1.06
H1443990-1616	X-1616-CFL9	16	1	25.4	1.88	44.5	80	79.0	14.3	1.54
H1443990-1620	X-1620-CFL9	16	1	25.4	2.13	50.8	75	82.5	14.3	1.62
H1443990-2020	X-2020-CFL9	20	1 1/4	31.8	2.13	50.8	89	93.0	14.3	2.47
H1443990-2024	X-2024-CFL9	20	1 1/4	31.8	2.50	60.3	91	101.0	14.3	3.08

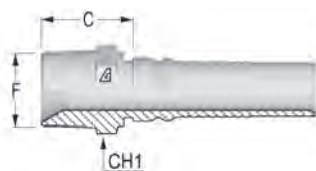
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Interlock Inserts – International End Configurations



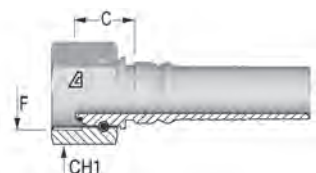
BSP Solid Male Parallel 60° Seat Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	(in. TPI)			
H1410510-1212	X-1212-MBPP	12	3/4	19.0	12	3/4-14	32.0	32	0.40
H1410510-1616	X-1620-MBPP	16	1	25.4	16	1-11	38.0	41	0.75
H1410510-2020	X-2020-MBPP	20	1 1/4	31.8	20	1 1/4-11	44.2	50	1.27
H1410510-2424	X-2424-MBPP	24	1 1/2	38.1	24	1 1/2-11	46.5	55	1.76
H1410510-3232	X-3232-MBPP	32	2	50.8	32	2-11	52.5	70	2.80



BSP/JIS Solid Male Tapered Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	(in.-TPI)			
H1410710-1212	X-1212-MBPT	12	3/4	19.0	12	3/4-14	32.0	27	0.34
H1410710-1616	X-1616-MBPT	16	1	25.4	16	1-11	41.0	36	0.71
H1410710-2020	X-2020-MBPT	20	1 1/4	31.8	20	1 1/4-11	46.2	46	1.28
H1410710-2424	X-2424-MBPT	24	1 1/2	38.1	24	1 1/2-11	48.0	50	1.77
H1410710-3232	X-3232-MBPT	32	2	50.8	32	2-11	53.2	65	2.77

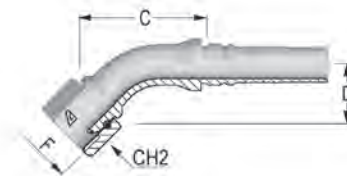


BSP/JIS Swivel Female 60° Cone Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)	Dash Size	(in.-TPI)			
H1420811-0808	X-0808-FBPO	08	1/2	12.7	08	1/2-14	22.5	27	0.32
H1420812-1212	X-1212-FBPO	12	3/4	19.0	12	3/4-14	25.5	32	0.42
H1420812-1616	X-1616-FBPO	16	1	25.4	16	1-11	30.2	38	0.71
H1420812-2020	X-2020-FBPO	20	1 1/4	31.8	20	1 1/4-11	33.5	50	1.29
H1420812-2424	X-2424-FBPO	24	1 1/2	38.1	24	1 1/2-11	35.0	55	1.79
H1420812-3232	X-3232-FBPO	32	2	50.8	32	2-11	33.0	70	2.77

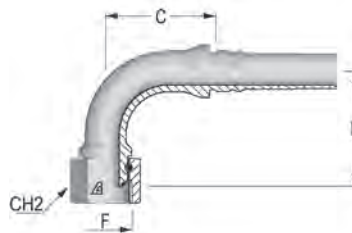
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Interlock Inserts – International End Configurations



45° BSP Swivel Female 60° Cone Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
H1420842-1212	X-1212-FB04	12	3/4	19.0	12	3/4-14	69.0	30	32	0.71
H1420842-1616	X-1616-FB04	16	1	25.4	16	1-11	103.5	34	38	0.71
H1420842-2020	X-2020-FB04	20	1 1/4	31.8	20	1 1/4-11	97.2	40	50	1.87
H1420842-2424	X-2424-FB04	24	1 1/2	38.1	24	1 1/2-11	108.5	46	55	4.41
H1420842-3232	X-3232-FB04	32	2	50.8	32	2-11	143.0	60	70	3.97

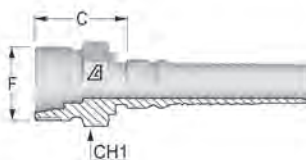


90° BSP Swivel Female 60° Cone Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
H1420892-1212	X-1212-FB09	12	3/4	19.0	12	3/4-14	58.0	61	32	0.79
H1420892-1616	X-1616-FB09	16	1	25.4	16	1-11	71.0	71	38	1.24
H1420892-2020	X-2020-FB09	20	1 1/4	31.8	20	1 1/4-11	79.2	83	50	2.07
H1420892-2424	X-2424-FB09	24	1 1/2	38.1	24	1 1/2-11	93.5	96	55	3.22
H1420892-3232	X-3232-FB09	32	2	50.8	32	2-11	144.0	125	70	5.51

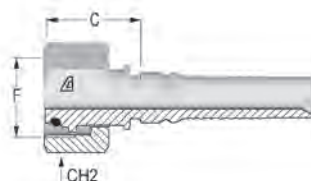
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Interlock Inserts – International End Configurations



Metric Solid Male 24° Seat Interlock – DIN 3861 Heavy

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread	Tube OD (mm)	C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight Each (lbs.)
			(in.)	(mm)					
H1411210-0824	X-0824-MMSH	08	1/2	12.7	M24x1.5	16	27.0	24	0.20
H1411210-1030	X-1030-MMSH	10	5/8	15.9	M30x2	20	31.0	32	0.33
H1411210-1236	X-1236-MMSH	12	3/4	19.0	M36x2	25	35.0	36	0.47
H1411210-1642	X-1642-MMSH	16	1	25.4	M42x2	30	40.0	46	0.86
H1411210-2052	X-2052-MMSH	20	1 1/4	31.8	M52x2	38	45.2	55	1.41

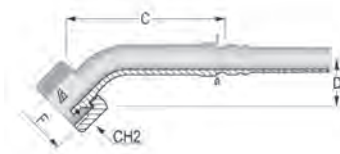


Metric Female O-Ring Swivel Interlock – DIN 3865 Heavy

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread	Tube OD (mm)	C Cut-Off Factor (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)					
H1421613-0824	X-0824-FMOH	08	1/2	12.7	M24x1.5	16	29.8	30	0.48
H1421613-1030	X-1030-FMOH	10	5/8	15.9	M30x2	20	37.6	36	0.49
H1421613-1236	X-1236-FMOH	12	3/4	19.0	M36x2	25	41.0	46	0.84
H1421613-1642	X-1642-FMOH	16	1	25.4	M42x2	30	40.7	50	1.10
H1421613-2052	X-2052-FMOH	20	1 1/4	31.8	M52x2	38	45.3	60	1.85

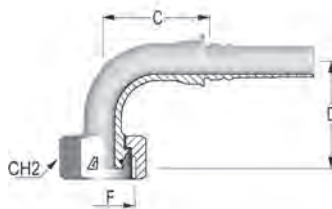
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Interlock Inserts – International End Configurations



45° Metric Female O-Ring Swivel Solid One-Piece Interlock – DIN 3865 Heavy

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread	Tube OD (mm)	C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)						
H1421643-0824	X-0824-FM4H	08	1/2	12.7	M24x1.5	16	59.0	29.0	30	0.44
H1421643-1030	X-1030-FM4H	10	5/8	15.9	M30x2	20	60.5	31.5	36	0.58
H1421643-1236	X-1236-FM4H	12	3/4	19.0	M36x2	25	78.0	36.0	46	0.88
H1421643-1642	X-1642-FM4H	16	1	25.4	M42x2	30	96.8	38.0	50	1.43
H1421643-2052	X-2052-FM4H	20	1 1/4	31.8	M52x2	38	112.7	48.0	60	2.21

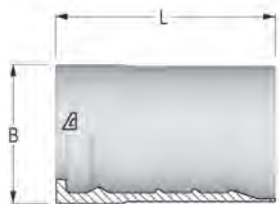


90° Metric Female O-Ring Swivel Solid One-Piece Interlock – DIN 3865 Heavy

Former Part Number	New Part Number	Dash Size	Hose ID Size		F Thread	Tube OD (mm)	C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight Each (lbs.)
			(in.)	(mm)						
H1421693-0824	X-0824-FM9H	08	1/2	12.7	M24x1.5	16	55.0	50	30	0.43
H1421693-1030	X-1030-FM9H	10	5/8	15.9	M30x2	20	51.0	55	36	0.64
H1421693-1236	X-1236-FM9H	12	3/4	19.0	M36x2	25	61.7	65	46	1.17
H1421693-1642	X-1642-FM9H	16	1	25.4	M42x2	30	86.4	79	50	1.53
H1421693-2052	X-2052-FM9H	20	1 1/4	31.8	M52x2	38	90.9	101	60	2.43

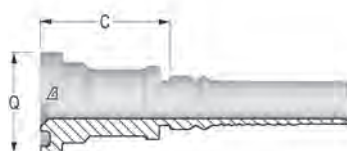
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Interlock Inserts – US End Configurations



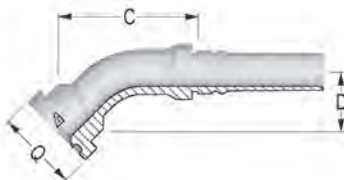
H1T00600/ZF1

Former Part Number	New Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight Each (lbs.)
			(in.)	(mm)			
H1T00600-32	ZF1-32	32	2	50.8	88	108.2	3.30
H1T00600-40	ZF1-40	40	2 1/2	63.0	109	134.0	3.78
H1T00600-48	ZF1-48	48	3	76.0	122	149.0	4.21



O-Ring Flange SAE J518 Code 62 Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor	Max WP (PSI)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)			
H1T43610-3224	Z-3224-C62S	24	2	50.8	2.50	63.5	106	6000	3.11
H1T43610-3232	Z-3232-C62S	32	2	50.8	3.13	79.4	104	6000	3.75

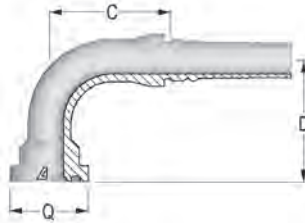


45° O-Ring Flange SAE J518 Code 62 Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor	D-Drop (mm)	Max WP (PSI)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
H1T43640-3232	Z-3232-C624	32	2	50.8	3.13	79.4	141	63	6000	5.14

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Interlock Inserts – US End Configurations



90° O-Ring Flange SAE J518 Code 62 Solid One-Piece Interlock

Former Part Number	New Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor	D-Drop (mm)	Max WP (PSI)	Weight Each (lbs.)
			(in.)	(mm)	(in.)	(mm)				
H1T43690-3224	Z-3224-C629	24	2	50.8	2.50	63.5	134	112	6000	5.41
H1T43690-3232	Z-3232-C629	32	2	50.8	3.13	79.4	132	138	6000	6.17

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Assembly Equipment and Accessories

Crimping Equipment

KD160SH & SP Crimper and Components	283	KD2-50 Crimper and Components	286
KD165 Crimper and Components	284	KD4-50 Crimper and Components	287
KD2-30 Crimper and Components	285		

Cutting Equipment

KuriSaws™ KHS-150 Cutoff Saw & Blades	288
KuriSaws™ Plus KHS-300-1P, KHS-300, KHS-500-1P, KHS-500.....	289

Skiving Equipment

Hydraulic Skive Machine	290
Manual Hose Skiver	291
Skive Tools	292

Accessories/Hose Protectors

Floppy Guard Metal Hose - HT1100.....	295	Plastic Coil Sleeve – PCG	294
Hose Protectors.....	293 – 295	Steel Coil Springs	293
Nylon Sleeve Guard	294	Steel Flat Coil Sleeve	293



Crimping Equipment

KD160SH & SP



Weighing only 50 lbs., the 62 ton cylinder of the portable KuriKrimp™ KD160SH-124 crimper is a truly "portable" crimper. This 62 ton crimper can be carried to most locations where service is required.



KD160SP-124RK Crimper System (Air/Hydraulic Pump VAP-10-100)

Part Number	Description	Weight Ea. (lbs.)
Complete KuriKrimp™ KD160SP System to crimp 1/4" to 1" 2 wire hose.		74.00
KD160SP-124RK	Complete System (+ Dies)	89.00
KuriKrimp™ KD160SP System Suggested Dies for 1-pc fittings:		
KD100-16/Orange	Standard Die 16mm Orange	3.00
KD100-19/Black	Standard Die 19mm Black	3.00
KD100-23/Purple	Standard Die 23mm Purple	3.00
KD100-31/Yellow	Standard Die 31mm Yellow	3.00
KD100-39/Red	Standard Die 39mm Red	3.00

KD160SH & SP Crimpers and Components

The KD160SH & SP crimper is both light and powerful enough (62 ton) to go anywhere you need to go to make hydraulic hose assemblies up to 1 1/4" ID 100R12 four-spiral hose!

The micrometer-style adjustment allows a wide variety of hose and fitting combinations to be crimped to exact manufacturer's specifications without the need for special shims or spacers.

KD160SH-124 Specifications:

- DimensionsD 14" X W 11" X H 23.5"
- Weight..... 50 lbs.
- PumpAir/Oil, 10,000 PSI
- Reservoir..... See Manual
- Oil Type..... ISO Viscosity Grade 46
- Hose Capacity 1 1/4" 4 Wire
..... 1" 6 Wire

Includes KD100 Series Rubber Die Kages.



KD160SH-124RK Crimper System (Hand Pump VHP-10-43)



Part Number	Description	Weight Ea. (lbs.)
Complete KuriKrimp™ KD160SH System to crimp 1/4" to 1" 2 wire hose.		74.00
KD160SH-124RK	Complete System (+ Dies)	89.00
KuriKrimp™ KD160S System Suggested Dies for 1-pc fittings:		
KD100-16/Orange	Standard Die 16mm Orange	3.00
KD100-19/Black	Standard Die 19mm Black	3.00
KD100-23/Purple	Standard Die 23mm Purple	3.00
KD100-31/Yellow	Standard Die 31mm Yellow	3.00
KD100-39/Red	Standard Die 39mm Red	3.00

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Crimping Equipment

KD165

KD165 Package and Components

If your looking for a machine that can do more than just 2 wire hose, the KD165 might be your machine of choice. This machine boasts a 62 ton press, capable of crimping 2 and 4 wire hose up to 1 1/4" and 6 wire up to 1" ID.

KD165 Specifications:

- Dimensions L 22" X W 12.5" X H 22.25"
- Weight..... See Below
- Pump/Power..... Electric 1 HP (110V)
- Reservoir..... 1 Gal.
- Oil Type.....ISO Viscosity Grade 46
- Hose Capacity 1 1/4" 4 Wire
..... 1 1/4" 4 Wire
..... 1" 6 Wire

KD165 Crimper Without Dies

Part Number	Description	Weight Ea. (lbs.)
KuriKrimp™ KD165 Crimper without Dies:		
KD165	Hose Crimper 60 Ton	114.00

KD165-124RK System for Alfacrimp One-Piece Fittings

Part Number	Description	Weight Ea. (lbs.)
Complete KuriKrimp™ KD165 System with Suggested Die Package for 1-piece fittings:		
<i>to crimp 1/4" to 1" 2 wire</i>		
KD165-124RK	Complete System	165.00
KuriKrimp™ KD165 System Standard Dies for 1-pc fittings:		
KD100-16/Orange	Standard Die 16mm Orange	3.00
KD100-19/Black	Standard Die 19mm Black	3.00
KD100-23/Purple	Standard Die 23mm Purple	3.00
KD100-31/Yellow	Standard Die 31mm Yellow	3.00
KD100-39/Red	Standard Die 39mm Red	3.00

Other Optional Rubber Kage Dies for KD165:

Part Number	Description	Weight Ea. (lbs.)
KD100-12/Purple	Standard Die 12mm Purple	3.00
KD100-14/Yellow	Standard Die 14mm Yellow	3.00
KD100-20/Green	Standard Die 20mm Green	3.00
KD100-22/Blue	Standard Die 22mm Blue	3.00
KD100-27/Brown	Standard Die 27mm Brown	3.00
KD100-34/Red	Standard Die 34mm Red	3.00
KD100-41/Silver	Standard Die 41mm Silver	3.00



Includes KD100 Series Rubber Die Kages.



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Crimping Equipment

KD2-30



The KuriKrimp™ KD2-30 crimper includes everything needed for producing high volume hydraulic hose assembly, including a manual stop for repeated assemblies.

Micrometer Digital Readout



A micrometer style digital readout makes crimp set up easy and precise

Optional Die Rack



A stand alone die rack is available to keep dies organized and readily available

Optional

Coupling Stop Included



A coupling stop and a retraction stop makes production crimping a fast and repeatable process.

Quick Change Tool Included



KD2-30 Crimper and Components

The KD2-30 has 155 ton of crimping force and averages 1,415 crimps/hour for -8 100R2AT. It is an ideal fit for many small shops where space is at a premium and the ability to crimp a wide variety of hose and fittings as needed.

KD2-30 Specifications:

- Dimensions..... L 23.5" X W 15" X H 18.5"
- Weight..... 236 Lbs.
- Pump 11,000 psi 2 HP (220V)
- Reservoir..... 13 Qt.
- Oil Type ISO Viscosity Grade 46
- Master Dies..... 20 MM ID Master Die Standard
- Hose Capacity 2" 2 Wire
..... 1 1/4" 4 Wire
..... 1" 6 Wire
- Optional 110V 1HP model - KD2-30-110V

KD2-30 Crimper System

Part Number	Description	Weight Ea. (lbs.)
KD2-30-PKG	Complete crimper, power unit, base, 130/99 adapter die set, crimp control, quick change tool and foot switch. <i>to crimp 1/4" to 1 1/2" 2 wire 1 1/4" 4 Spiral</i>	236.00
Suggested Dies for Alfacrimp 1-Piece Couplings		
D84S-16	20 Series Crimping Die Set - 16MM	6.00
D84S-19	20 Series Crimping Die Set - 19MM	6.00
D84S-23	20 Series Crimping Die Set - 23MM	6.00
D84S-31	20 Series Crimping Die Set - 31MM	6.00
D84S-39	20 Series Crimping Die Set - 39MM	6.00
D84S-49	20 Series Crimping Die Set - 49MM	6.00
D84S-56	20 Series Crimping Die Set - 56MM	6.00
Optional Dies:		
D84S-12	20 Series Crimping Die Set - 12MM	6.00
D84S-14	20 Series Crimping Die Set - 14MM	6.00
D84S-20	20 Series Crimping Die Set - 20MM	6.00
D84S-22	22 Series Crimping Die Set - 22MM	6.00
D84S-27	27 Series Crimping Die Set - 27MM	6.00
D84S-34	34 Series Crimping Die Set - 34MM	6.00
D84S-43	43 Series Crimping Die Set - 43MM	6.00
D84S-69	69 Series Crimping Die Set - 69MM	6.00

Part Number	Description	Weight Ea. (lbs.)
D102616-84MM	9 Station Die rack for KD2-30 crimper	14.00

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Crimping Equipment

KD2-50 Crimpers and Components

The KD2-50 has 340 ton of crimping force and averages 1,415 crimps/hour for -8 100R2AT. It is an ideal fit for many small shops where space is at a premium and the ability to crimp a wide variety of hose and fittings is needed.

KD2-50 Specifications:

- Dimensions L 29" X W 20" X H 32"
- Weight..... 635 Lbs.
- Pump230V 3PH
- Reservoir.....8 Gal.
- Oil Type..... ISO Viscosity Grade 46
- Master Dies..... 130 MM ID Master Die Standard
- Adapter Dies.....99 MM ID Adapter Dies Included
- Hose Capacity 2 1/2" 6 Wire

KD2-50 Crimper System

Part Number	Description	Weight Ea. (lbs.)
KD2-50-PKG	Complete crimper, power unit, base, 130/99 adapter die set, crimp control, foot switch and quick change tool.	579.00
D18506/16	99 Series Crimping Die Set - 16MM	10.00
D18506/19	99 Series Crimping Die Set - 19MM	10.00
D18506/23	99 Series Crimping Die Set - 23MM	10.00
D18506/27	99 Series Crimping Die Set - 27MM	10.00
D18506/31	99 Series Crimping Die Set - 31MM	10.00
D18506/34	99 Series Crimping Die Set - 34MM	9.00
D18506/39	99 Series Crimping Die Set - 39MM	9.00
D18506/49	99 Series Crimping Die Set - 49MM	9.00
D18506/56	99 Series Crimping Die Set - 56MM	9.00
D18506/69	99 Series Crimping Die Set - 69MM	8.00



Optional

Part Number	Description	Weight Ea. (lbs.)
101247-99	Machine stand with 16 station die holder panel for 99MM Series crimping dies	98.00
D102616-99MM	9 Station Die rack for KD2-50 Crimper	14.00

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KD2-50



The KuriKrimp™ KD2-50 crimper includes everything needed for producing high volume hydraulic hose assembly, including a manual stop for repeated assemblies.

Micrometer Digital Readout



A micrometer style digital readout makes crimp set up easy and precise

Coupling Stop Included



A coupling stop and a retraction stop makes production crimping a fast and repeatable process.

Quick Change Tool Included



Die Rack Included with Package



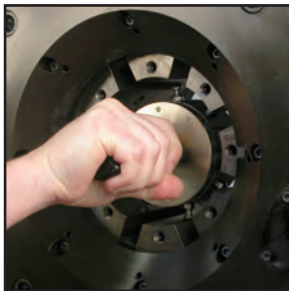
Crimping Equipment

KD4-50



The KuriKrimp™ KD4-50 crimper includes everything needed for producing high volume hydraulic hose assembly, including a manual stop for repeated assemblies.

Quick Change Tool Included



Manual Stop Included



Optional

Part Number	Description	Weight Ea. (lbs.)
101247-99	Machine stand with 16 station die holder panel for 99 MM Series crimping dies	98.00

KD4-50 Crimper and Components

The KD4-50 boasts 340 ton of crimping force and averages 1,415 crimps/hour for -8 100R2AT. Not only is this a true hydraulic production machine, but ACT controller makes it a snap.

KD4-50 Specifications:

- Dimensions L 29" X W 20" X H 32"
- Weight See below
- Pump Electric 7.5 HP (230V 3PH)
- Reservoir 8 Gal.
- Oil Type ISO Viscosity Grade 46
- Master Dies 145 MM ID Master Die Standard
- Adapter Dies 99 MM ID Adapter Dies Included
- Hose Capacity 2 1/2" 2 Wire
..... 2 1/2" 4 Wire
..... 2 1/2" 6 Wire

KD4-50 Crimper System

Part Number	Description	Weight Ea. (lbs.)
KD4-50-PKG	Complete crimper, power unit, base, 130/99 adapter die set, crimp control, foot switch, and quick change tool.	579.00
D18506/16	99 Series Crimping Die Set - 16MM	10.00
D18506/19	99 Series Crimping Die Set - 19MM	10.00
D18506/23	99 Series Crimping Die Set - 23MM	10.00
D18506/27	99 Series Crimping Die Set - 27MM	10.00
D18506/31	99 Series Crimping Die Set - 31MM	10.00
D18506/34	99 Series Crimping Die Set - 34MM	9.00
D18506/39	99 Series Crimping Die Set - 39MM	9.00
D18506/49	99 Series Crimping Die Set - 49MM	9.00
D18506/56	99 Series Crimping Die Set - 56MM	9.00
D18506/69	99 Series Crimping Die Set - 69MM	8.00

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Cutting Equipment

KuriSaws™

The **KuriSaws™** are available to meet your hydraulic hose cutting needs. Several options are available to improve your cuts, blade life and hose cutting accuracy.

KHS-150



- The 1 HP KHS-150 will cut hose up to 1 1/4" 4--Wire using a 10" blade.
- KHS-150 (110V).
- Weight 85 lbs.



The KHS-150 comes standard with a D103502 serrated blade.

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KuriSaws™ Plus

KuriSaws™ Plus Hose Saws are available with a mist system for longer blade life, hose retention clamp and hose measurement table making hose preparation fast and accurate.

- The 3 HP KHS-300 will cut hose up to 1 1/4" multi-spiral using a 12" blade.
- The 5 HP KHS-500 will cut hose up to 2" multi-spiral using a 12" blade.
- Weight each - 155 lbs.



KHS-300

KHS-300 (three phase) 230 VAC

KHS-300-1PH (single phase) 230 VAC



KHS-500

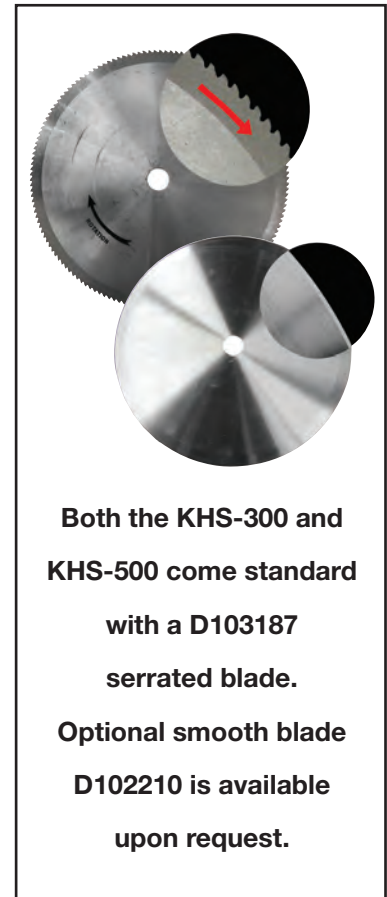
KHS-500 (three phase) 230 VAC

KHS-500-1PH (single phase) 230 VAC

Optional Add-on:

D103172 (Mister Assembly)

The Mister Assembly can be easily added to KHS-300 and KHS-500 saws above. This Mister keeps the blade cool keeping it sharper longer and promotes longer blade life.



Both the KHS-300 and KHS-500 come standard with a D103187 serrated blade.

Optional smooth blade D102210 is available upon request.



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Hydraulic Skive Machine

KSM300 Hydraulic Skive Machine



The KSM300 can be easily controlled by a foot pedal, leaving the operator's hands free.

KSM300 Hydraulic Skive Machine

This machine is capable of skiving hose sizes from 1/2" to 3". It has features which not only make it easier to set up and use, but also make it an outstanding value.

KSM300 Specifications:

Capable of skiving 1/2" to 3" hose internally and externally. Both O.D. and I.D. Carbide Skiving Inserts remain sharp for a long lasting service life.

O.D. Carbide Skiving Insert Blades have 4 useable cutting surfaces, which can be rotated quickly.

Change from O.D. to I.D. skiving tool in seconds with quick connect technology.

O.D. skive depth adjustability is easy and accurate.

Adjustable stops on O.D. and I.D. Skiving Tools make changing skive lengths simple.

Standard 110V single phase (Available).

110VAC Single Phase Gear Motor Reversible 59 RPM.

Overall Size: 16.5" W x 24" D x 20.5" H.

Weight: 215 lbs.



The I.D. Skiving Tool is designed with a round carbide skiving insert for a cleaner and smoother cut.



The O.D. Skiving Tool is designed with 2 cutting arms, both can be used for skiving a single hose. The advantage is that one arm can be set up to skive 4 wire hose, and the other arm can be set up to skive 6 wire hose. Simply change the insert from one tool arm, to the other and skive the appropriate hose.



The laser etched scale is designed to help accurately calibrate the skive diameter.

FEATURES AT A GLANCE: REPLACEABLE PARTS:

Mobile Cart (PN: KSMC101956)
Sold Separately 45.0 lbs.

Tool Holder (PN: KSMTH104247)
Sold Separately 15.0 lbs.

Foot Pedal (PN: KSMFP104046)
Included 3.0 lbs.

O.D. Carbide Skiving Insert
(PN: KSODCB103993) 1.0 lbs.

O.D. Skiving Insert Screw
(PN: KSODIS103994) 1.0 lbs.

I.D. Carbide Skiving Insert
(PN: KSIDCB104141) 1.0 lbs.

I.D. Skiving Insert Screw
(PN: KSIDIS104291)
Sold Separately 1.0 lbs.



Internal Cutting Blade External Cutting Blade

Hose Size	O.D. Skiving Tool Part Number	Approx. Wt. Each (lbs.)	I.D. Skiving Tool Part Number	Approx. Wt. Each (lbs.)
08	KST103692-08	3.0	KST104028-08	3.0
10	KST103692-10	3.0	KST104028-10	3.0
12	KST103692-12	3.0	KST104028-12	3.0
16	KST103692-16	4.0	KST104028-16	4.0
20	KST103692-20	4.0	KST104028-20	4.0
24	KST103692-24	5.0	KST104028-24	5.0
32	KST103692-32	5.0	KST104028-32	5.0
40	KST103692-40	13.0	KST104028-40	9.0
48	KST103692-48	13.0	KST104028-48	10.0

O.D. and I.D. Skiving Tools are sold separately.

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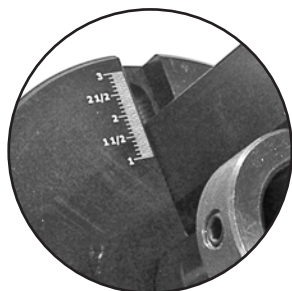


KSM300M - Manual Hose Skiver

KSM300M - Manual Hose Skiver



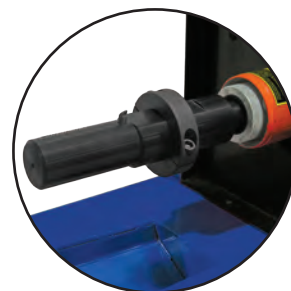
The KSM300M Manual Hose Skiver has the capacity to skive hoses from 1/4" to 3" either internally or externally. The quick change tooling, carbide cutting inserts and dual arm external skiver make this product an outstanding value.



Laser Etched Scale:
Is designed to help accurately calibrate the skive diameter.



OD Skiving Tool & PTO Coupling:
Long lasting carbide inserts have multiple cutting edges to eliminate sharpening and PTO Coupling for quick change tool.



ID Skiving Tool: High Speed Steel cutting tool provides clean ID skiving.

Engineered to accommodate your needs

- Made to easily fit in a vise.
- Capable of skiving 1/4" to 3" hose internally and externally.
- OD Carbide Skiving Inserts remain sharp for a long lasting service life.
- OD Carbide Skiving Insert blade have 4 useable cutting surfaces, which can be rotated quickly.
- OD and ID skive depth adjustability is easy and accurate.
- ID steel cutting blade provides clean ID skiving.
- Change from OD to ID skiving tool in seconds with PTO Coupling.
- Weight: 35 lbs.

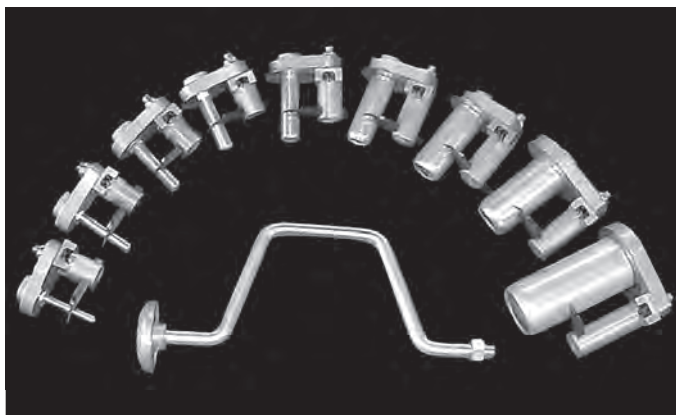
Durable, reliable design = Profitability

- Open design to provide excellent operator visibility.
- Complete range of OD and ID Skiving Tools available.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Skive Tools

External Skive Tools



Tools for 100R13 and R15 External Skiving

Part Number	Description	Weight Ea. (lbs.)
R13-175-12L	External Skive Head 100R13 – 3/4"	1.00
R13-175-16L	External Skive Head 100R13 – 1"	1.00
R13-175-20L	External Skive Head 100R13 – 1 1/4"	1.40
R13-175-24L	External Skive Head 100R13 – 1 1/2"	2.00
R13-175-32L	External Skive Head 100R13 – 2"	2.20

Tools for External 100R12 Skiving

Part Number	Description	Weight Ea. (lbs.)
R12-100-24L	External Skive Head For 100R12 – 1 1/2"	2.00
R12-185-32L	External Skive Head For 100R12 – 2"	2.20
EHA-107	External Handle Assembly	1.40

Internal Skive Tools



Tools for Internal Skiving

Part Number	Description	Weight Ea. (lbs.)
IS-123-12L	Internal Skive Head 3/4"	0.80
IS-123-16L	Internal Skive Head 1"	1.40
IS-123-20L	Internal Skive Head 1 1/4"	1.20
IS-123-24L	Internal Skive Head 1 1/2"	1.60
IS-123-32L	Internal Skive Head 2"	2.00
IHA-107-01	Internal Handle Assembly	1.40

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ALFAGOMMA Steel Protective Coil Springs and Flat Coil Sleeves prolong the life of hose lines that are exposed to rugged operating conditions.

They distribute the bending radii to avoid kinking in hose lines and protect the hose from excessive

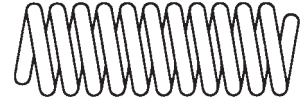
wear caused by sharp edges and abrasion and help protect the hose from deep cuts.

The guards are constructed of steel and are plated to resist rust.

Steel Protective Coil Springs – SRS

Application – Protects hose cover and reinforcement from abrasion and accidental damage.

Length – 13'-1 1/2" (4 m)



Part Number	DIN SAE ID		1SN R1AT FXP2 Alfatech 3000		2SN R2AT		4SP R12		4SH Alfatech 4000 R15 Alfatech 6000†		R13 Alfatech 5000 Alfatech 6000†	
	In.	mm	DN	Size	DN	Size	DN	Size	DN	Size	DN	Size
R1S0033-0154	0.61	15.5	6	-04								
R1S0033-0174	0.67	17.0	8	-05	6	-04						
R1S0033-0194	0.75	19.0	10	-06	8	-05						
R1S0033-0234	0.91	23.0	12	-08	10	-06	10	-06				
R1S0033-0264	1.02	26.0	16	-10	12	-08	12	-08				
R1S0033-0294	1.14	29.0	20	-12								
R1S0033-0344	1.34	34.0			16 20	-10 -12	16 20	-10 -12	20†	-12	20	-12
R1S0055-0414	1.61	41.0	25	-16	25	-16	25	-16	25†	-16	25	-16
R1S0055-0484	1.89	48.0							32	-20		
R1S0055-0544	2.13	54.0	32	-20	32	-20					32†	-20
R1S0055-0604	2.36	60.0			40	-24			40	-24	40†	-24

† Alfatech 6000 Only

Steel Protective Flat Coil Sleeve – SSF

Application – For use where hose lines are subjected to excessive abrasion, kinking, or accidental damage.

Length – 13'-1 1/2" (4 m)



Part Number	DIN SAE ID		1SN R1AT FXP2 Alfatech 3000		2SN R2AT		4SP R12		4SH Alfatech 4000 R15 Alfatech 6000†		R13 Alfatech 5000 Alfatech 6000†	
	In.	mm	DN	Size	DN	Size	DN	Size	DN	Size	DN	Size
R1S1017-0134	0.51	13.0										
R1S1017-0154	0.61	15.5	6	-04								
R1S1017-0174	0.67	17.0	8	-05	6	-04						
R1S1017-0194	0.75	19.0	10	-06	8	-05						
R1S1017-0224	0.87	22.0	12	-08	10	-06	10	-06				
R1S1017-0264	1.02	26.0	16	-10	12	-08	12	-08				
R1S1017-0284	1.10	28.0										
R1S1017-0304	1.18	30.0	20	-12	16	-10						
R1S1017-0344	1.34	34.0			20	-12	16 20	-10 -12	20†	-12	20	-12
R1S1017-0414	1.61	41.0	25	-16	25	-16	25	-16	25†	-16	25	-16
R1S1017-0484	1.89	48.0							32	-20		
R1S1017-0544	2.13	54.0	32	-20	32	-20					32†	-20
R1S1017-0604	2.36	60.0			40	-24			40	-24	40†	-24

† Alfatech 6000 Only

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Hose Protectors

Plastic Protective Coil Sleeve – PCG

Application – The high density polyethylene plastic coil sleeve is air, water, oil, gasoline and hydraulic fluid-resistant at temperatures between 0°F and 180°F (-20°C – 84°C).

This coil can also be used for bundling groups of hoses.



Kuriyama Part No.	Inner Diameter	Wall Thickness (in.)	For Use on These Hoses	Roll Length (ft.)
PCG-16-H	0.50	0.069	TR1SN, TF2MT/ST, TR2SN, T4SP	100
PCG-20-H	0.66	0.075	TR1SN, TF2MT/ST, TR2SN, T4SP, TR12	100
PCG-25-H	0.75	0.122	TR1SN, TF2MT/ST, TR2SN, T4SP, TR12	100
PCG-32-H	1.00	0.118	TR1SN, TF2MT/ST, TR2SN, T4SP, TR12, T4SH, TR12	100
PCG-39-H	1.25	0.132	TR1SN, TF2MT/ST, TR2SN, T4SP, TR12, T4SH, TR12	100
PCG-50-H	1.60	0.150	TR1SN, TR2SN, TR12, T4SH, TR12	50
PCG-59-H	2.00	0.160	TR1SN, TR2SN, TR12, T4SH, TR12	50
PCG-75-H	2.50	0.209	TR1SN, TR2SN, TR12, T4SH, TR12	50

Nylon Sleeve Guard

Extend the life of your hose assemblies with Kuriyama's Nylon Sleeve Guard. This unique tubular woven product provides ideal physical protection against abrasion and other external conditions found in many hydraulic hose applications. Additionally, this sleeving serves as a means of bundling several hydraulic hoses together for further protection and clean routing.

The nylon tubular sleeving withstands temperatures of 250°F (120°C) and has MSHA acceptance, while maintaining its flexibility in extreme cold applications.

Standard packaging is 100 and 50 foot rolls, depending on the size. Other lengths and colors are available upon request or as indicated below.



Part Number	Nominal Flat Size (in.)	Range of Hose ODs for this size	Round ID (in.)	Coil Size (ft.)	Weight Est. (lbs./coil)
NS-04	1.2500	0.48 - 0.70	0.796	100	2.99
NS-06	1.5000	0.61 - 0.84	0.955	100	3.02
NS-08	1.8750	0.77 - 0.97	1.194	100	4.37
NS-10	1.9375	0.93 - 1.11	1.234	100	4.12
NS-12	2.1250	1.09 - 1.27	1.353	100	4.11
NS-16	2.5625	1.40 - 1.56	1.632	50	2.72
NS-20	3.3125	1.71 - 1.96	2.109	50	3.58
NS-24	3.8125	1.99 - 2.26	2.428	50	4.17
NS-32	4.5625	2.52 - 2.79	2.906	50	4.92

"Nominal Flat Size" refers to the width of the sleeving when flat, radius to radius.

It is recommended that the ends of the sleeves be heated after cutting to resist fraying. For secure fastening, sleeves are often band clamped or tied with nylon ties.

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Flexible “Floppy Guard” Interlocked Metal Hose – HT1100

Highly-flexible interlocked metal armor hose provides maximum protection for hydraulic hoses in the most severe applications.

Construction – A single metal strip is loosely interlock-wound to create an extremely flexible interlocked metal hose.

Available in galvanized steel and stainless steel.

Applications – Armor shielding for hoses where maximum flexibility and protection from abrasion and damage are important.



Maximum Service Temperature:

Galvanized Steel: Up to 750°F

Stainless Steel: Up to 1800°F

SPECIFICATIONS (Lengths and Weights are based on extended hose and are approximate)

HTG1100 – Galvanized – .010" – .012" strip thickness

Part Number	ID	Std. Length Coils (ft.)	Approx. Net Wt. per Pkg. (lbs.)
HTG1100-018X25	3/16	25	2.00
HTG1100-025X25	1/4	25	2.50
HTG1100-031X25	5/16	25	3.00
HTG1100-037X25	3/8	25	3.50
HTG1100-050X25	1/2	25	4.00
HTG1100-062X25	5/8	25	4.50
HTG1100-075X25	3/4	25	5.00
HTG1100-087X25	7/8	25	5.75
HTG1100-100X25	1	25	7.00
HTG1100-112X25	1 1/8	25	8.00
HTG1100-125X25	1 1/4	25	9.00
HTG1100-137X25	1 3/8	25	10.50
HTG1100-150X25	1 1/2	25	12.00
HTG1100-162X25	1 5/8	25	13.00
HTG1100-175X25	1 3/4	25	14.50
HTG1100-187X25	1 7/8	25	15.50
HTG1100-200X25	2	25	16.50
HTG1100-225X25	2 1/4	25	19.00

HTS1100 – Stainless Steel – .010" – .012" strip thickness

Part Number	ID	Std. Length Coils (ft.)	Approx. Net Wt. per Pkg. (lbs.)
HTS1100-018X25	3/16	25	2.00
HTS1100-025X25	1/4	25	2.50
HTS1100-031X25	5/16	25	3.00
HTS1100-037X25	3/8	25	3.50
HTS1100-050X25	1/2	25	4.00
HTS1100-062X25	5/8	25	4.50
HTS1100-075X25	3/4	25	5.00
HTS1100-087X25	7/8	25	5.75
HTS1100-100X25	1	25	7.00
HTS1100-112X25	1 1/8	25	8.00
HTS1100-125X25	1 1/4	25	9.00
HTS1100-137X25	1 3/8	25	10.50
HTS1100-150X25	1 1/2	25	12.00
HTS1100-162X25	1 5/8	25	13.00
HTS1100-175X25	1 3/4	25	14.50
HTS1100-187X25	1 7/8	25	15.50
HTS1100-200X25	2	25	16.50
HTS1100-225X25	2 1/4	25	19.00

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Technical Information Index



HOSES

C121

C122

C12A

C124

C126

TWO PIECE FERRULES
(STANDARD & INTERLOCK)

H12 STANDARD
INSERTS

H14 AND H1T
INTERLOCK INSERTS

CRIMPERS

TECHNICAL
INFORMATION

Assembly Length	304 - 305	Installation & Assembly.....	306-307
Fitting Identification	308	Pressure & Distance Conversions	323
Fitting Identification - American	310 - 314	Pressure Drop International Chart	303
Fitting Identification - British	315	Pressure Drop U.S. Chart	302
Fitting Identification - French.....	316	Safety Guide	298 - 300
Fitting Identification - German.....	317 - 318	Temperature Conversions	324
Fitting Identification - Japanese.....	319 - 320	Thread Type	309
Hex Dimensions	325	Torque Data	321 - 322
Hydraulic Hose Sizing Nomogram.....	301		

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Safety Guide and Basic Factors for Selecting, Installing & Maintaining Hose and Hose Assemblies

Hydraulic hose (and hose assemblies) has a limited life dependent on service conditions to which it is applied. Subjecting hose (and hose assemblies) to conditions more severe than the recommended limits significantly reduce service life. Exposure to combinations of recommended limits (i.e., continuous use at maximum rated working pressure, maximum recommended operating temperature and minimum bend radius) will also reduce service life.

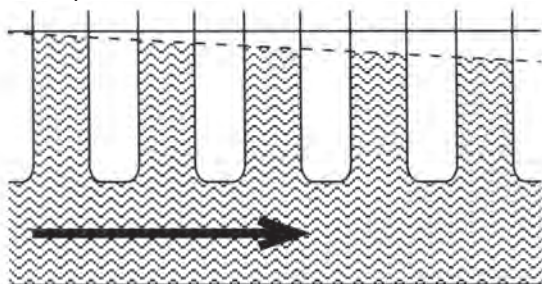
WARNING: FAILURE TO FOLLOW PROPER SELECTION, INSTALLATION AND MAINTENANCE PROCEDURES MAY RESULT IN PREMATURE FAILURES, BODILY INJURY, AND DAMAGE TO PROPERTY.

1. SELECTION – The following is a list of factors which must be considered before the selection of a hose can be made:

1.1 Line size:

In order to achieve maximum efficiency in a hydraulic system, it is necessary to keep pressure losses (resistance to the volumetric flow) to a minimum when a fluid is conveyed by the different types of flow lines.

When a fluid flows through a flow line, heat is generated by friction. Thus part of the energy is lost as heat energy, which results in a pressure loss.



These pressure losses depend upon:

- Flow velocity (for a given volumetric flow, the fluid flow velocity increases with a decrease in the cross sectional area of a flow line and vice versa) · length of the flow line
- The viscosity of the fluid flowing
- The density of the fluid flowing
- The type of flow (laminar or turbulent)

Types of flow – The type of flow changes from laminar to turbulent at a certain flow velocity. This velocity is given by the Reynold's Number Re.

For cylindrical flow lines the following formula applies:

$$Re = \frac{v \cdot d}{\nu}$$

where v = velocity (m/s)

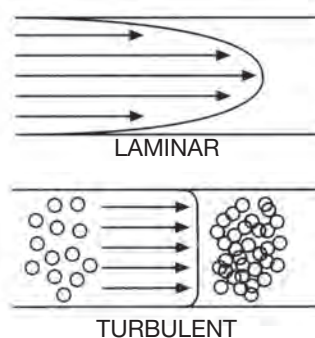
d = flow line internal dia. (m)

ν = kinematic viscosity (m²/s)

As soon as the value for Re exceeds 2300, the laminar flow changes to turbulent flow.

Laminar flow – In laminar flow, the individual fluid particles move up to certain speeds in uniform layers alongside each other. They scarcely disturb or influence each other.

Turbulent flow – If the value for Re exceeds 2300, flow becomes whirling and turbulent. The individual particles no longer move in one direction in an orderly fashion, but influence and hinder each other.



Certain fluid flow velocities have proved to be most suitable for hydraulic flow lines.

Recommended flow velocities:

Suction lines: 0.5..... 1.2 m/s	1.6..... 4 feet/s
Return lines: 2..... 3 m/s	6.5..... 10 feet/s
Pressure lines: 4..... 7.5 m/s	13..... 25 feet/s

It is therefore important to calculate correctly the required flow line sizes. Undersized pressure lines result in high fluid velocity causing an excessive pressure drop, and heat build up, which impair overall system performance. Undersized suction lines can cause cavitation at the hydraulic pump inlet, affecting performance, shortening pump life, and creating excessive noise levels.

The flow capacity nomogram on page 14 is an aid to determine the correct hose internal diameter size, desired flow rate and recommended velocity. By the use of any two known factors, the third can be determined.

1.2 Pressure:

After determining the system pressure for a hydraulic system, hose selection must be made so that the recommended maximum operating pressure specified by a given hose, is equal or greater than the system pressure. Dynamic pressure is common for all hydraulic systems.

Pressure surges which exceed the maximum working pressure (pressure relief valve setting) affect the service life of system components, including a hose assembly and therefore need to be taken into consideration. Hoses used for suction lines must be selected to ensure the hose will withstand the negative pressure of the system.

1.3 Temperature:

Care must be taken to ensure that the operating temperature of the fluid being conveyed and ambient temperatures, do not exceed the limitations of the hose. Special care must be taken when routing near hot manifolds or molten metal.

1.4 Fluid Compatibility:

Hose selection must assure compatibility of the hose tube, cover, reinforcement, and fittings with the fluid used. Additional caution must be observed in hose selection for gaseous applications. Some fire resistant fluids require the same hose as petroleum oil. Some use a special hose, while a few fluids will not work with any hose at all.

1.5 Permeation:

Permeation (that is, seepage through the hose) will occur from inside the hose to outside when hose is used with gases, liquid and gas fuels, and refrigerants (including but not limited to such materials such as helium, fuel oil, natural gas, or freon). This permeation may result in high concentrations of vapors which are potentially flammable, explosive, or toxic, and in loss of fluid.

Even though the fluid compatibility is acceptable, you must take into account the fact that permeation will occur and could be hazardous. Permeation of moisture from outside the hose to inside the hose will also occur. If this moisture permeation would have detrimental effects (particularly but not limited to refrigeration and air conditioning systems), incorporation of sufficient drying capacity in the system or other appropriate system safeguards should be selected and used.

1.6 Routing:

Attention must be given to optimum routing to minimize inherent problems. Restrain, protect or guide hose with the use of clamps if necessary to minimize risk or damage due to excessive flexing, whipping or contact with other moving parts or corrosives. Determine hose lengths and configurations that will result in proper routing and protection from abrasion, snagging or kinking and provide leak resistant connections.

1.7 Environment:

Care must be taken to ensure that the hose and fittings are either compatible with or protected from the environment to which they are exposed. Environmental conditions including but not limited to ultraviolet light, heat, ozone, moisture, water, salt water, chemicals, and air pollutants can cause degradation and premature failure and, therefore, must be considered.

1.8 Mechanical Loads:

External forces can significantly reduce hose life. Mechanical loads which must be considered include excessive flexing, twist, kinking, tensile or side loads, bend radius, and vibration. Use of swivel type fittings or adaptors may be required to ensure no twist is put into the hose. Unusual applications may require special testing prior to hose selection.

1.9 Abrasion:

While a hose is designed with a reasonable level of abrasion resistance, care must be taken to protect the hose from excessive abrasion which can result in erosion, snagging, and

cutting of the hose cover. Exposure of the reinforcement will significantly accelerate hose failure.

1.10 Proper End Fitting:

Care must be taken to ensure proper compatibility exists between the hose and coupling selected based on the manufacturer's recommendations substantiated by testing to industry standards such as

SAE J517
DIN 20024, JIS B 8360.

1.11 Length:

When establishing proper hose length, motion absorption, hose length changes due to pressure, as well as hose and machine tolerances must be considered.

1.12 Specifications and Standards:

When selecting hose and fittings, government, industry, and manufacturer's specifications and recommendations must be reviewed as applicable.

1.13 Hose Cleanliness:

Hose components may vary in cleanliness levels. Care must be taken to ensure that the assemblies selected have an adequate level of cleanliness for the application.

1.14 Welding and Brazing:

Heating of plated parts, including hose fittings and adaptors, above 232°C (450°F) such as during welding, brazing, or soldering may emit deadly gases.

1.15 Electrical Conductivity:

Certain applications require that a hose be non-conductive to prevent electrical current flow. Other applications require the hose to be sufficiently conductive to drain off static electricity.

Extreme care must be exercised when selecting hose and fittings for these or any other applications in which electrical conductivity or non-conductivity is a factor.

For applications that require hose to be electrically non-conductive, including but not limited to applications near high voltage electric lines, only special non-conductive hose can be used.

The manufacturer of the equipment in which the non-conductive hose is to be used must be consulted to be certain that the hose and fittings that are selected are proper for the application.

Do not use any ALFAGOMMA hose or fitting for any application requiring non-conductive hose, including but not limited to applications near high voltage electric lines, unless the application is expressly approved in the ALFAGOMMA technical publication for the product, the hose is both orange in color and marked "non-conductive," and the manufacturer of the equipment on which the hose is to be used specifically approves the particular ALFAGOMMA hose and fitting for such use.

ALFAGOMMA does not supply any hose or fittings for conveying paint in airless paint spraying or similar applications and therefore should not be used. A special hose and fitting assembly is required for this application, to avoid static electricity buildup which could cause a spark that may results in an explosion and/or fire.

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The electrical conductivity or non-conductivity of hose and fittings is dependant upon many factors and may be susceptible to change. These factors include but are not limited to the various materials used to make the hose and the fittings, manufacturing methods (including moisture control), how the fittings contact the hose, age and amount of deterioration of damage or others changes, moisture content of the hose at a particular time, and other factors.

2. INSTALLATION – After the selection of the correct hose, the following factors must be considered prior to hose and fitting assembly and installation:

2.1 Pre-Installation Inspection:

Prior to installation, a careful examination of the hose must be performed. All components must be checked for correct style, size, and length. The hose must be examined for cleanliness, obstructions, blisters, cover looseness, or any other visible defects.

2.2 Hose and Fitting Assembly:

Do not assemble an ALFAGOMMA fitting on an ALFAGOMMA hose that is not specified by ALFAGOMMA for that hose. Do not assemble ALFAGOMMA fittings on another manufacturer's hose or an ALFAGOMMA hose on another manufacturer's fitting unless ALFAGOMMA approves the assembly in writing, and the user verifies the assembly and the application through analysis and testing. The ALFAGOMMA published hose assembly instructions must be followed for assembling the fittings on the hose.

2.3 Related Accessories:

Crimp or swage ALFAGOMMA hose or fittings only with ALFAGOMMA approved swage or crimp machines and in accordance with the ALFAGOMMA published hose assembly instructions.

2.4 Parts:

Do not use any ALFAGOMMA hose fitting part (including but not limited to sockets, or inserts) except with the correct ALFAGOMMA mating parts, in accordance with ALFAGOMMA published hose assembly instructions, unless authorized in writing by ALFAGOMMA.

2.5 Reusable/Permanent:

Do not reuse any reusable hose coupling that has blown or pulled off a hose. Do not reuse an ALFAGOMMA permanent (that is, crimped or swaged) hose fitting or any part thereof.

2.6 Minimum Bend Radius:

Installation of a hose at less than the minimum listed bend radius may significantly reduce the hose life. Particular attention must be given to avoid sharp bending at the hose/fitting juncture.

2.7 Twist Angle and Orientation:

Hose installations must be such that relative motion of machine components does not produce twisting.

2.8 Hose Restraints:

In many applications, it may be necessary to restrain, protect, or guide the hose to protect it from damage by unnecessary flexing, pressure surges, and contact with other mechanical components. Care must be taken to ensure such restraints do not introduce additional stress or wear points.

2.9 Proper Connection of Parts:

Proper physical installation of the hose requires a correctly installed port connection while ensuring that no twist or torque is transferred to the hose.

2.10 External Damage:

Proper installation is not complete without ensuring that tensile loads, side loads, kinking, flattening, potential abrasion, thread damage, or damage to sealing surfaces are corrected or eliminated.

2.11 System Checkout:

After completing the installation all air entrapment must be eliminated and the system pressurized to the maximum system pressure and checked for proper function without any leaks. Personnel must stay out of potential hazardous areas while testing.

3. HOSE AND FITTING MAINTENANCE INSTRUCTIONS

Even with proper selection and installation, hose life may be significantly reduced without a continuing maintenance program. Frequency should be determined by the severity of the application and risk potential. A maintenance program must be established and followed to include the following as a minimum:

3.1 Visual Inspection Hose/Fitting:

Any of the following conditions require immediate shutdown and replacement of the hose assembly:

- Fitting slippage on hose.
- Damaged, cut, or abraded cover (any reinforcement exposed).
- Hard, stiff, heat cracked, or charred hose.
- Cracked, damaged, or badly corroded fittings.
- Leaks at fitting or in hose.
- Kinked, crushed, flattened, or twisted hose.
- Blistered, soft, degraded, or loose cover.

3.2 Other Visual Inspection:

The following items must be tightened, repaired or replaced as required:

- Leaking port conditions.
- Remove excess dirt build-up.
- Clamp, guards, shields.
- System fluid level, fluid type, and any air entrapment.

3.3 Functional Test:

Operate the system at maximum operating pressure and check for possible malfunctions and freedom from leaks. Personnel must stay out of potential hazardous areas while testing.

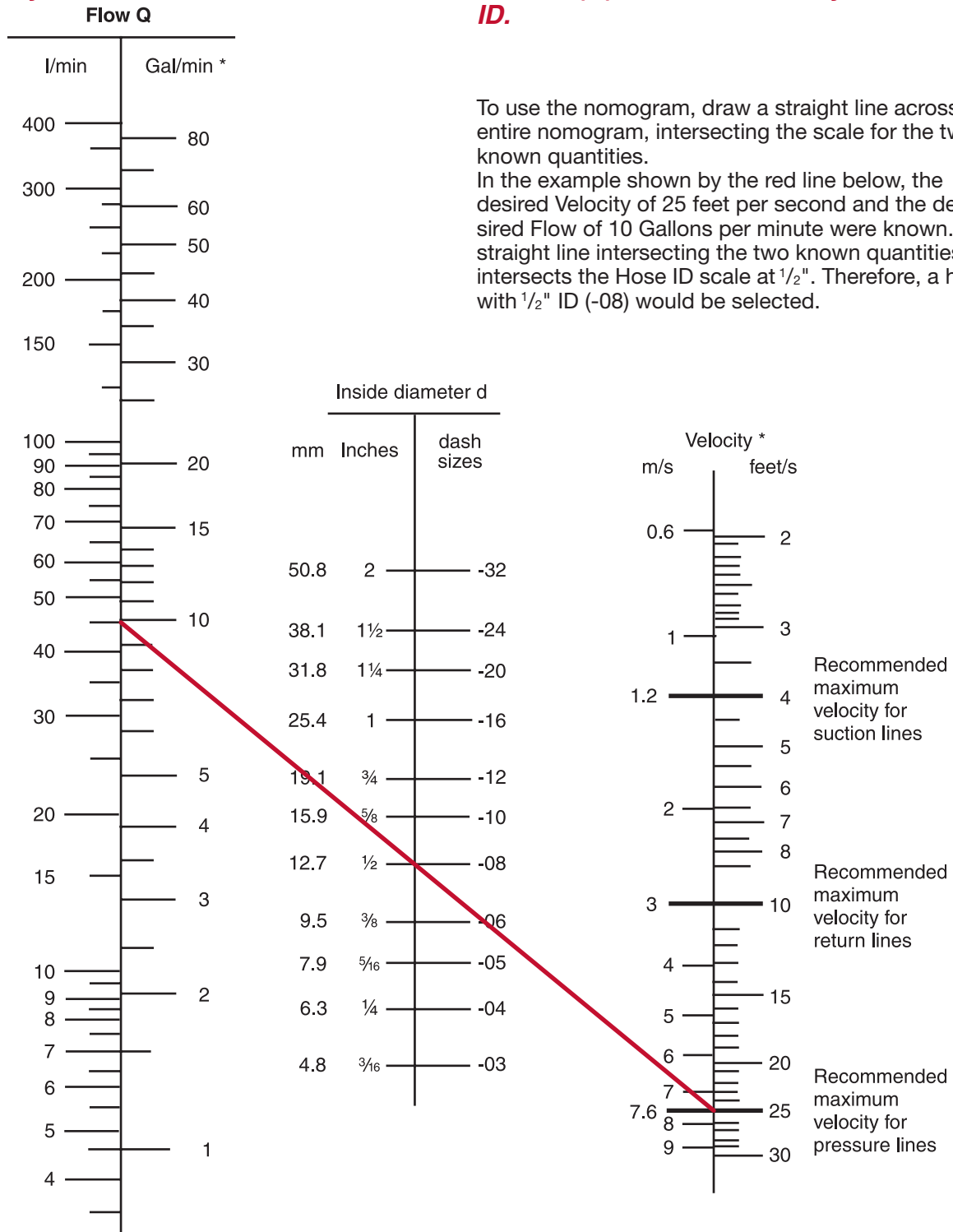
3.4 Replacement Intervals:

Specific replacement intervals must be considered based on previous service life, government or industry recommendations, or when failures could result in unacceptable downtime, damage, or injury risk.

Hydraulic Hose Sizing Nomogram

Use the nomogram below to determine Hose ID Size based on Flow (Q) and Velocity.

Conversely, it can be used to determine Velocity, based on Flow (Q) and Hose ID, or Flow (Q) based on Velocity and Hose ID.



* Gallons shown are Imperial (British) Gallons. To convert to US Liquid Gallons, multiply by 1.2009.
Other Conversions: Gal/min (Brit) x 4.546 = l/min
feet/s x 0.3048 = m/s

* Recommended Velocities shown are based on hydraulic fluids with maximum viscosity of 315 SSU at 100°F (38°C) working at room temperatures within the range 65°F (18°C) and 155°F (68°C).

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Pressure Drop US Chart



Hose Pressure Drop*

The chart below shows pressure drop in **PSI** for 10 feet of hose (smooth bore) without fittings. Fluid specification: Specific gravity = .85; Viscosity = ν = 20 centistokes (C.S.), (20 C.S. = 97 S.S.U.); ref MIL - H 5606, +70°F (+21°C).

Flow: US gallons per minute (gpm)

Hose pressure drop in PSI per 10 feet of hose length

Hose Size	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-40	-48
Hose I.D. (in.)	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1-1/4	1-1/2	2	2-1/2	3
DN	5	6	8	10	12	16	20	25	32	40	50	63	80
US gallons per minute	.25	10	3.1										
	.50	19	6	2.7									
	1	40	12	5.5	2.4								
	2	95	24	10	4.8								
	3	185	46	17	7	2.2							
	4		78	29	12	3	1.2						
	5		120	44	18	4.5	1.6	0.7					
	8			95	39	10	3.6	1.4					
	10				59	15	5.7	2	0.6				
	12				80	20	7.2	2.6	0.8				
	15					30	10	4.2	1.2	0.4			
	18					40	15	6.3	1.5	0.6			
	20					49	19	8	2	0.7	0.3		
	25					72	26	11	3	1	0.4		
	30						34	14	3.6	1.3	0.5	0.1	
	35						47	19	5	1.7	0.7	0.2	
	40							25	6.5	2.2	0.9	0.2	
	50							36	9	3.3	1.3	0.4	0.2
	60							50	12	4.4	1.8	0.5	0.2
	70								17	6	2.4	0.7	0.3
	80								21	7.1	3	0.8	0.3
	90								27	9	3.8	1	0.5
	100								33	12	4.7	1.3	0.6
	150								60	22	8.5	2.2	1
	200									36	15	3.9	1.7
	250									54	22	5.3	2.5
	300										29	7.5	4
	400										51	14	6.5
	500											20	10
	800												18
	1000												10

* Pressure drop values listed are typical of many petroleum based hydraulic oils at approximately +100°F (+38°C). Differences in fluids, fluid temperature and viscosity can increase or decrease actual pressure drop compared to the values listed.

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Hose Pressure Drop*

Pressure drop in **KPa** (Kilo Pascal) for a 10 meter length of hose (smooth bore) without fittings. Fluid specification: specific gravity = 0.85; Viscosity = 20 centistokes (C.S.);
ref MIL – H 5606 at +21°C (+70°F).
Flow: Litres per minute (L/min)

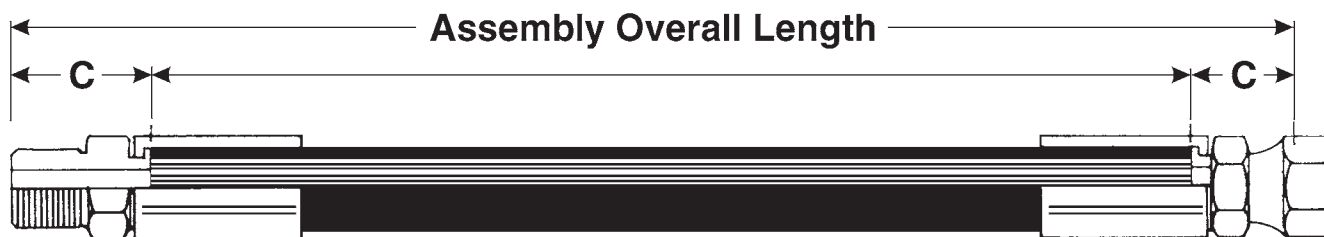
Hose pressure drop in KPa per 10 meters of hose length

Hose size		-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-40	-48
DN real		4.8	6.4	8.0	9.5	12.7	15.9	19.0	25.4	31.8	38.1	50.8	63.5	76.2
DN		5	6	8	10	12	16	20	25	32	40	50	63	80
Liters per minute	1	242	75											
	2	466	146	66										
	4	996	293	133	59									
	8	2433	613	250	117									
	10	3540	880	335	144	45								
	15		1776	660	273	69	27							
	20		3080	1129	462	116	41	18						
	30			2159	887	228	82	32						
	40				1496	379	141	50	14					
	50					555	192	75	22					
	60					756	263	111	30	10				
	70					970	373	154	37	13				
	80					1250	475	200	49	17	7			
	90					1531	560	237	66	21	9			
	100						653	274	73	24	10	3		
	125						964	393	103	36	15	4		
	150							567	147	50	19	5		
	175							735	186	60	27	7	3	
	200							920	228	83	33	9	4	
	250								347	124	50	13	6	
	300								475	162	68	17	8	3
	400								832	303	118	32	14	5
	500								1159	425	164	43	19	6
	600									562	222	57	26	8
	700									733	301	78	35	11
	800									924	383	98	43	14
	900									1144	468	118	53	16
	1000										553	140	68	20

* Pressure drop values listed are typical of many petroleum based hydraulic oils at approximately +100°F (+38°C). Differences in fluids, fluid temperature and viscosity can increase or decrease actual pressure drop compared to the values listed.

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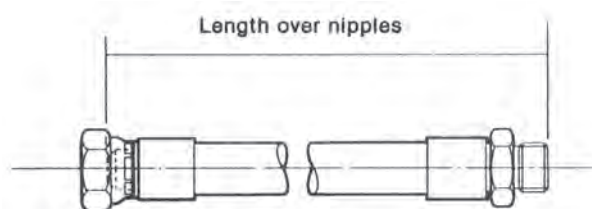
How to Determine Correct Assembly Length



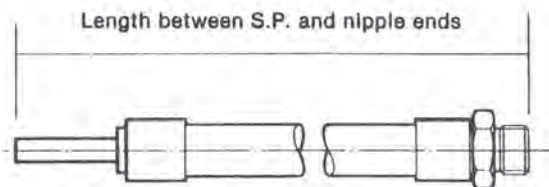
For most assemblies, the correct assembly length may be determined by direct measurement of the equipment or a drawing. Minimum bend radii as shown in the hose specification tables should be observed.

Assemblies are measured to the end of the seal.

To determine the length of hose needed in making assemblies with permanent or reusable couplings, subtract Dimension "C" (Cut off factor) for each coupling from the required overall assembly length. Dimension "C" may be found in the coupling specification tables.

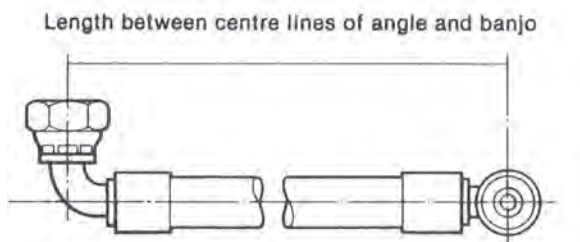


Swivel female and male union



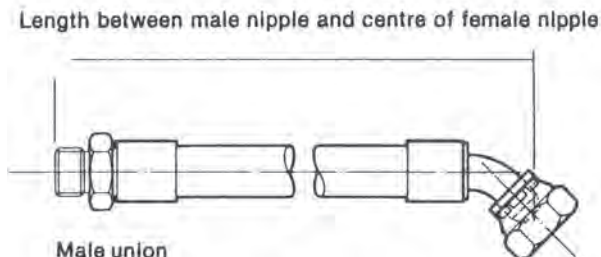
Straight standpipe

Male union



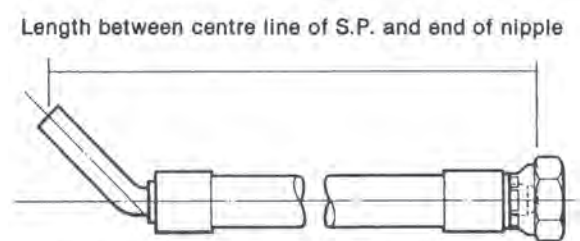
Swivel female 90° swept union

Banjo coupling



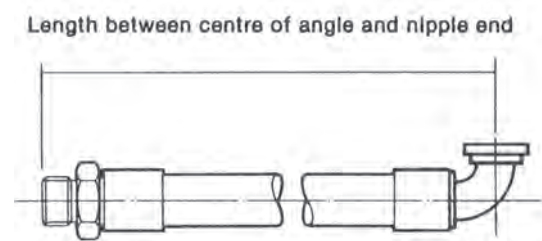
Male union

Swivel female 45° swept union



45° standpipe

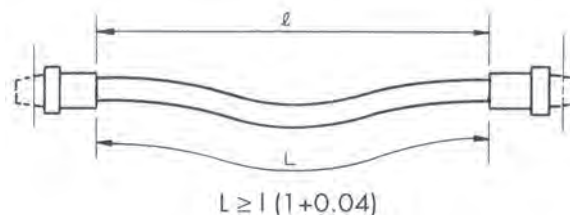
Swivel female union



Male union

90° SAE flange

Remember that hydraulic hose under pressure will elongate up to 2% of its length or contract up to 4% depending on pressure, type and size. Sufficient allowance should be made to permit such changes in length.



Occasionally an assembly will be required similar to the sketches to the right. The following equations are helpful in determining the correct length:

FOR 180° TURN APPLICATIONS

$$\#1 L = 2A + \pi R$$

$$\#2 L = 2A + \pi R + T$$

L = Overall length of the hydraulic hose assembly, in mm or inches.

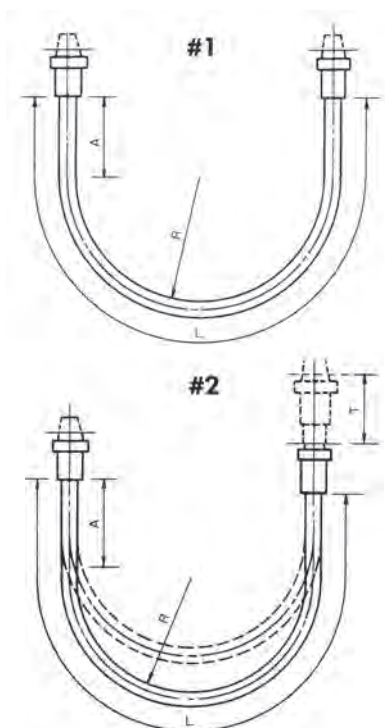
A = Allowance for a minimum straight section of hydraulic hose at each end of the assembly, measure from the outer end of each coupling, in mm or inches. These two straight sections are necessary to prevent excessive stress concentrations directly back of the couplings. See table below.

R = Bending radius of the hose, in mm or inches. See hose specifications tables.

T = Amount of travel, in mm or inches.

Often right angle adapters provide a convenient means of avoiding a bend radius that is too small.

Hose ID	in.	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
mm	mm	6.4	7.9	9.5	12.7	15.9	19	25	31.8	38.1	50.8
Min.	in.	5	5	5	6	6	7	8	9	10	11
"A"	mm	127	127	127	152	152	178	203	229	254	279



Length Tolerance for Hydraulic Hose Assemblies and Specified Hose Lengths

Length

For lengths from 0 up to and including 12" (305 mm)
 For lengths > 12" (305 mm) < 18" (457 mm)
 For lengths > 18" (457 mm) < 36" (914 mm)
 For lengths > 36" (914 mm) < 48" (1219 mm)
 For lengths > 48" (1219 mm) < 72" (1830 mm)
 For lengths > 72" (1830 mm)

Elbow angle and angle of Orientation.

Tolerance

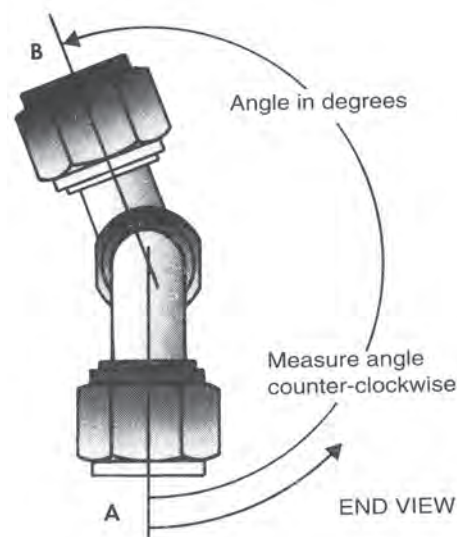
± 1/8" ± 3 mm
 ± 3/16" ± 5 mm
 ± 1/4" ± 6 mm
 ± 3/8" ± 10 mm
 ± 1/2" ± 13 mm
 ± 1%

Tolerance ± 3

Angle Couplings

A – To measure angle of offset of a hose assembly, point one end of coupling "A" (the nearest) to a vertical position downward. The angle can then be measured from the centerline of this vertical coupling "B" (the far coupling). See illustration at right.

Relationships can then be expressed from 0° to 360°. If angle is not given, elbows are positioned at 0°.



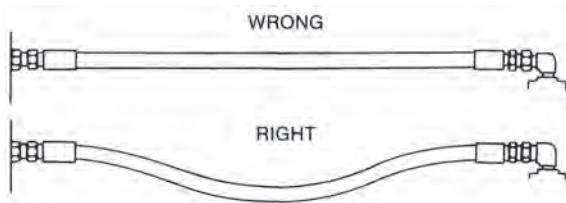
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Correct Assembly & Installation

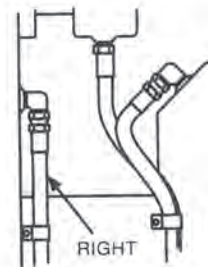
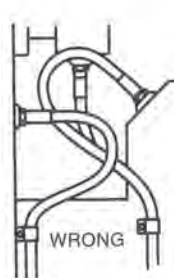
Satisfactory performance and appearance depend upon proper hose installation. Excessive length destroys the trim appearance of an installation and adds unnecessarily to the cost of the equipment. Hose assemblies of insufficient length to permit

adequate flexing, expansion or contraction will cause poor power transmission and shorten the life of the hose.

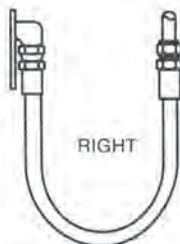
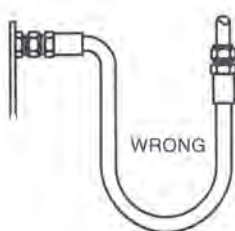
The diagrams below offer suggestions for proper hose installations to obtain the maximum in performance and economy.



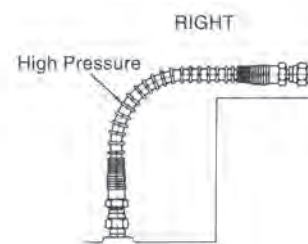
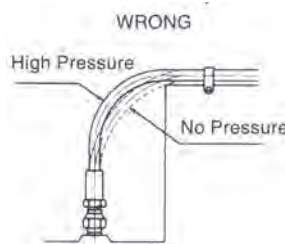
Since hose may change in length from +2% to -4% under the surge of high pressure, provide sufficient slack for expansion and contraction.



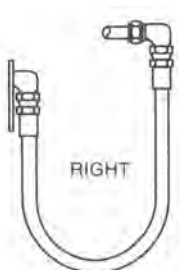
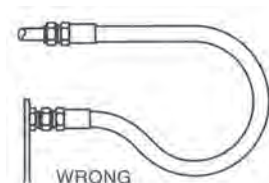
Obtain direct routing of hose through use of 45° and 90° adapters and fittings. Improve appearance by avoiding excessive hose length.



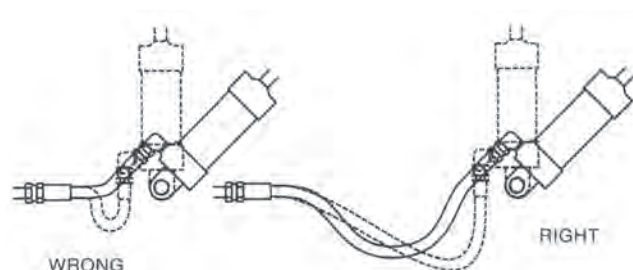
Avoid a sharp twist or bend in the hose by using the proper angle adaptors.



Due to changes in the length when a hose is pressurized, do not clamp at bends so curves absorb changes and protect the hose with a spring guard. Do not clamp high and low pressure lines together and protect the hose with a spring guard.



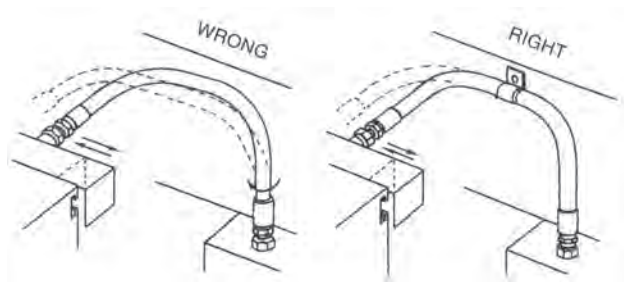
Where the radius falls below the required minimum, an angle adapter should be used as shown above to avoid a sharp bend in the hose.



Adequate hose length is most important to distribute movement on flexing applications and to avoid abrasion.

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Correct Assembly & Installation

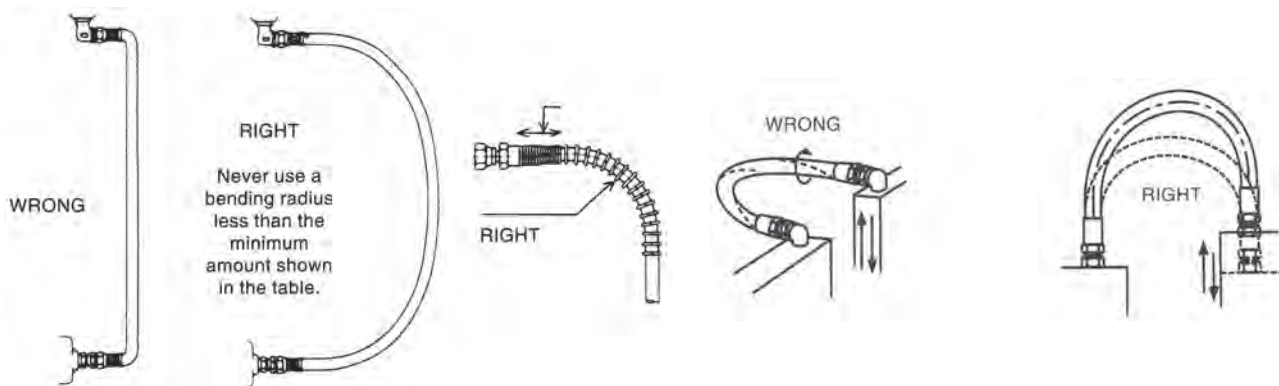


To avoid twisting in hose lines bent in two planes, clamp hose at change of plane, as shown.



Hose should not be twisted.

Hose is weakened when installed in a twisted position. Also pressure in twisted hose tends to loosen fitting connections. Design so that machine motion produces bending rather than twisting.



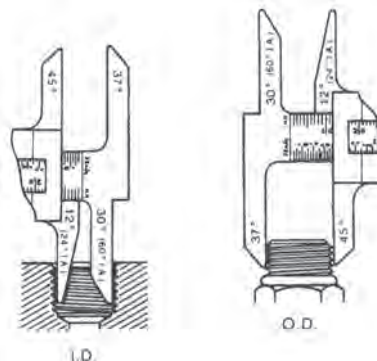
To prevent twisting and distortion, hose should be bent in the same plane as the motion of the boss to which the hose is connected.

Never use a bending radius less than the minimum shown in the hose specification tables. Avoid sharp bends in hoses to reduce collapsing of lines and restriction of flow by using a proper spring guard. Exceeding minimum bend radius will greatly reduce hose assembly life.

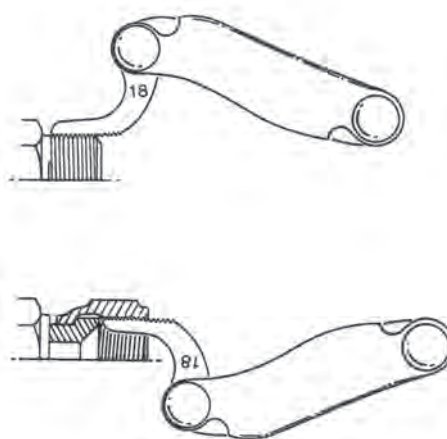
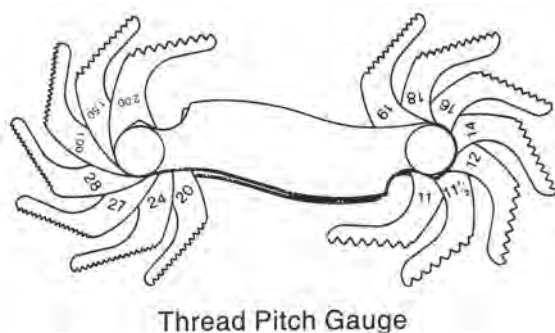
Measuring Threads and Seat Angles

Measuring Threads

With the calliper, measure the thread diameter at the largest point. (O.D. of male threads – I.D. of female threads). See illustration at right.

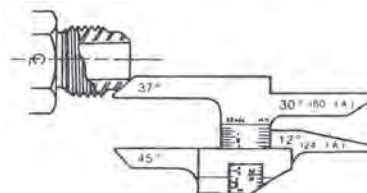


Use a thread pitch gauge (see illustration below) to determine the number of threads per inch or the distance between threads in metric connections. Place the gauge on the threads (see illustrations at right) until the fit is snug. Match the measurement to the chart.



Measuring Seat Angles

When the centerline of the seat gauge extends parallel to the projected longitudinal axis of the coupling, then the angles of the gauge and seat match. See illustration at right.

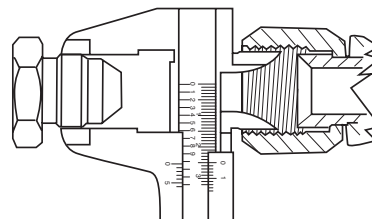


Compare the measurements taken to the couplings shown in the coupling specification tables that appear in this catalog.

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HOW TO DETERMINE THE THREAD TYPE USING CALLIPERS

By measuring with a caliper the outside diameter of the thread of a male or the inside diameter of the thread of a female you will get a measure in mm. By finding this value in mm on the below table, you'll be able to find the relevant thread type.



Male OD	mm	Female ID	Male OD	mm	Female ID
	8,7	G1/8" BSP		27,9	1 3/16" – 12 JIC
1/8" – 27 NPTF	9,5			28,0	M 30 x 2
G1/8" BSP	9,6			28,5	30 x 1,5 DKF
M 10 x 1	9,8		M 30 x 2	29,8	
	9,9	7/16" – 20 JIC	30 x 1,5 CEF	29,9	
	10,5	M 12 x 1,5	1 3/16" – 12 JIC	30,1	
7/16" – 20 JIC	11,0			30,7	G1" BSP
	11,4	1/2" – 20 SAE		31,2	1 5/16" – 12 JIC
	11,6	G1/4" BSP	1" – 11 1/2 NPTF	31,4	
M 12 x 1,5	11,9			31,5	M 33 x 1,5
1/4" – 18 NPTF	12,5		G1" BSP	33,1	
	12,5	M 14 x 1,5	1 5/16" – 12 JIC	33,2	
1/2" – 20 SAE	12,6			34,0	M 36 x 2
	12,9	9/16" – 18 JIC		34,5	36 x 1,5 DKF
G1/4" BSP	13,0		M 36 x 2	35,8	
M 14 x 1,5	13,9		36 x 1,5 CEF	35,9	
9/16" – 18 JIC	14,2			36,5	M 36 x 1,5
	14,5	M 16 x 1,5	M 38 x 1,5	37,9	
	15,1	G3/8" BSP		38,8	1 5/8" – 12 JIC
M 16 x 1,5	15,8			39,4	G1 1/4" BSP
3/8" – 18 NPTF	15,9			39,8	M 42 x 2
	16,5	M 18 x 1,5	1 1/4" – 11 1/2 NPTF	40,2	
G3/8" BSP	16,6			40,5	M 42 x 1,5
	17,5	3/4" – 16 JIC	1 5/8" – 12 JIC	41,1	
M 18 x 1,5	17,9		1 1/4" – 11 BSP	41,7	
	18,4	20 x 1,5 DKF	M 42 x 2	41,8	
3/4" – 16 JIC	18,8			42,4	M 45 x 2
	18,8	G1/2" BSP		43,3	45 x 1,5 DKF
1/2" – 14 NPT	19,8		M 45 x 2	44,8	
20 x 1,5 CEF	19,9		45 x 1,5 CEF	44,9	
	20,4	7/8" – 14 SAE		45,1	1 7/8" – 12 JIC
	20,5	M 22 x 1,5		45,2	G1 1/2" BSP
G1/2" BSP	20,8		1 1/2" – 11 1/2 NPTF	46,3	
	20,9	G5/8" BSP	1 7/8" – 12 JIC	47,5	
M 22 x 1,5	21,9		G1 1/2" BSP	47,7	
7/8" – 14 SAE	22,1			49,6	M 52 x 2
	22,5	24 x 1,5 DKF		50,3	52 x 1,5 DKF
G5/8" BSP	22,8		M 52 x 2	51,8	
24 x 1,5 CEF	23,9		52 x 1,5 CEF	51,9	
	24,5	G3/4" BSP		57,4	G2" BSP
	24,8	1 1/16" – 12 JIC	2" – 11 1/2 NPTF	58,3	
3/4" – 14 NPTF	25,1		G2" BSP	59,4	
	25,5	M 26 x 1,5		61,1	2 1/2" – 12 JIC
M 26 x 1,5	25,9			62,5	M 65 x 2
G3/4" BSP	26,3		2 1/2" – 12 JIC	63,3	
1 1/16" – 12 JIC	26,8				

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Fitting Identification

Dash Numbers

Most fluid piping system sizes are measured by dash numbers. These are universally used abbreviations for the size of a component expressed as the numerator of the fraction with the denominator always being 16. For example, a -04 port is 4/16 or 1/4 inch. Dash numbers are usually nominal (in name only) and are abbreviations that make the ordering of components easier.

American Thread Types

NPTF – (National Pipe Tapered Fuel)

This is a dryseal thread, the National pipe tapered thread for fuels. This is used for both male and female ends. This connection is still widely used in fluid power systems, even though it is not recommended by the National Fluid Power Associations (N.F.P.A.) for use in hydraulic applications.

The NPTF male will mate with the NPTF, NPSF, or NPSM female.

The NPTF male has tapered threads and a 30° inverted seat. The NPTF female has tapered threads and no seat. The seal takes place by deformation of the threads. The NPSM female has straight threads and a 30° inverted seat. The seal takes place on the 30° seat.

The NPTF connector is similar to, but not interchangeable with, the BSPT connector. The thread pitch is different in most sizes. Also, the thread angle is 60° instead of the 55° angle found on BSPT threads.

NPSF – (National Pipe Straight Thread for Fuels)

The National pipe straight thread for fuels. This is sometimes used for female ends and properly mates with the NPTF male end. However, the SAE recommends the NPTF thread in preference to the NPSF for female ends.

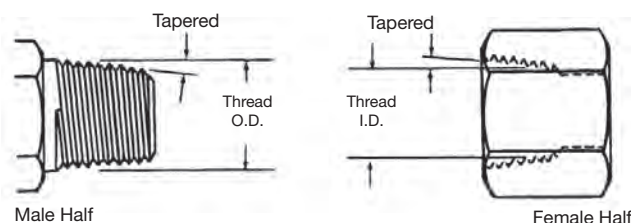
NPSM – (National Pipe Straight Mechanical)

National pipe straight thread for mechanical joint. This is used on the female swivel nut of iron pipe swivel adapters. The leak-resistant joint is not made by the sealing fit of threads, but by a tapered seat in the coupling end. This connection is sometimes used in fluid power systems.

There are a few coupling systems used for hydraulic connections. They are identified as:

American, British, French, German, Japanese

This section lists the origin and coupling style. Descriptions and dimensional data follow each coupling style.



Thread Identification Table
National Pipe Straight Mechanical (NPSM)
National Pipe Tapered for Fuels (NPTF)

Dash Size	Inch Size (in.)	Thread Size (in - TPI)	Female Thread ID		Male Thread OD	
			(mm)	(in.)	(mm)	(in.)
-02	1/8	1/8 - 27	8.7	0.34	10.3	0.41
-04	1/4	1/4 - 18	11.9	0.47	14.3	0.56
-06	3/8	3/8 - 18	15.1	0.59	17.5	0.69
-08	1/2	1/2 - 14	18.3	0.72	21.4	0.84
-12	3/4	3/4 - 14	23.8	0.94	27.0	1.06
-16	1	1 - 11 1/2	30.2	1.19	33.3	1.31
-20	1 1/4	1 1/4 - 11 1/2	38.9	1.53	42.9	1.69
-24	1 1/2	1 1/2 - 11 1/2	44.5	1.75	48.4	1.91
-32	2	2 - 11 1/2	57.2	2.25	60.3	2.38

American

SAE J514 Straight Thread O-Ring Boss (ORB)

This port connection is recommended by the N.F.P.A. for optional leakage control in medium and high pressure hydraulic systems. The O-ring boss male will mate with an O-ring boss female only.

The female is generally found on ports.

Thread Identification Table

SAE J514 Straight Thread O-Ring Boss

Dash Size	Inch Size (in.)	Thread Size	Female Thread ID		Male Thread OD	
		(in - TPI)	(mm)	(in.)	(mm)	(in.)
-02	1/8	5/16 - 24	6.9	0.27	7.8	0.31
-03	3/16	3/8 - 24	8.5	0.34	9.4	0.37
-04	1/4	7/16 - 20	9.9	0.39	11.2	0.44
-05	5/16	1/2 - 20	11.5	0.45	12.6	0.49
-06	3/8	9/16 - 18	12.9	0.51	14.1	0.56
-08	1/2	3/4 - 16	17.5	0.69	18.9	0.74
-10	5/8	7/8 - 14	20.5	0.81	22.1	0.87
-12	3/4	1 1/16 - 12	24.9	0.98	26.9	1.06
-14	7/8	1 3/16 - 12	28.1	1.11	30.0	1.18
-16	1	1 5/16 - 12	31.3	1.23	33.1	1.31
-20	1 1/4	1 5/8 - 12	39.2	1.54	41.1	1.62
-24	1 1/2	1 7/8 - 12	45.6	1.79	47.4	1.87
-32	2	2 1/2 - 12	61.4	2.42	63.3	2.49

SAE J514 37° (JIC)

The Society of Automotive Engineers (SAE) specifies a 37° angle flare or seat be used with high pressure hydraulic tubing. These are commonly called JIC couplings.

The JIC 37°Flare male will only mate with a JIC female.

The JIC male has straight threads and a 37°Flare seat.

Thread Identification Table

SAE J514 37°Flare (JIC)

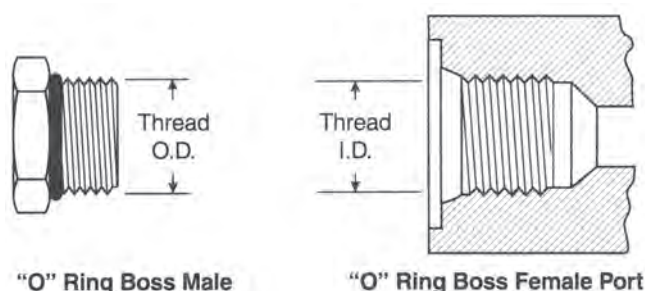
Dash Size	Inch Size (in.)	Thread Size	Female Thread ID		Male Thread OD	
		(in - TPI)	(mm)	(in.)	(mm)	(in.)
-02	1/8	5/16 - 24	6.9	0.27	7.8	0.31
-03	3/16	3/8 - 24	8.5	0.34	9.4	0.37
-04	1/4	7/16 - 20	9.9	0.39	11.2	0.44
-05	5/16	1/2 - 20	11.5	0.45	12.6	0.49
-06	3/8	9/16 - 18	12.9	0.51	14.1	0.56
-08	1/2	3/4 - 16	17.5	0.69	18.9	0.74
-10	5/8	7/8 - 14	20.5	0.81	22.1	0.87
-12	3/4	1 1/16 - 12	24.9	0.98	26.9	1.06
-14	7/8	1 3/16 - 12	28.1	1.11	30.0	1.18
-16	1	1 5/16 - 12	31.3	1.23	33.1	1.31
-20	1 1/4	1 5/8 - 12	39.2	1.54	41.1	1.62
-24	1 1/2	1 7/8 - 12	45.6	1.79	47.4	1.87
-32	2	2 1/2 - 12	61.4	2.42	63.3	2.49

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The male has straight threads and an O-ring. The female has straight threads and a sealing face. The seal is made at the O-ring on the male and sealing face on the female.

The threads hold the connection mechanically.

SAE Straight Thread O-Ring Boss

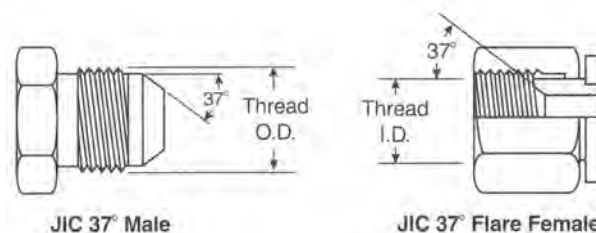


The JIC female has straight threads and a 37°Flare seat.

The seal is made on the 37°Flare seat by establishing a line contact between the male flare and the female cone seat. The threads hold the connection mechanically.

CAUTION: In the -02, -03, -04, -05, -08 and -10 sizes, the threads of the SAE 45°Flare and the SAE 37°Flare are the same. However, the sealing surface angles are not the same. Carefully measure the seat angle to differentiate.

37°Flare (JIC)



American (Continued)

SAE J512 45°

A term usually applied to fittings having a 45° angle flare or seat. Soft copper tubing is generally used in such applications as it is easily flared to the 45° angle. These are for low pressure applications – commonly used in refrigeration, automotive and truck piping systems. The SAE 45°Flare male will mate with an SAE 45°Flare female only

The SAE male has straight threads and a 45°Flare seat.

The SAE female has straight threads and a 45°Flare seat.

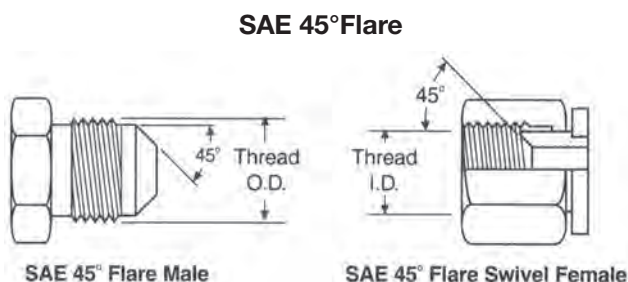
The seal is made on the 45°Flare seat.

The threads hold the connection mechanically.

CAUTION: In the -02, -03, -04, -05, -08 and -10 sizes, the threads of the SAE 45°Flare and the SAE 37°Flare are the same. However, the sealing surface angles are not the same. Carefully measure the seat angle to differentiate.

Thread Identification Table SAE J512 45°

Dash Size	Inch Size (in.)	Thread Size (in - TPI)	Female Thread ID		Male Thread OD	
			(mm)	(in.)	(mm)	(in.)
-02	1/8	5/16 - 24	6.9	0.27	7.9	0.31
-03	3/16	3/8 - 24	8.6	0.34	9.6	0.38
-04	1/4	7/16 - 20	9.9	0.39	11.2	0.44
-05	5/16	1/2 - 20	11.4	0.45	12.7	0.50
-06	3/8	5/8 - 18	14.2	0.56	15.7	0.62
-07	7/16	11/16 - 16	15.7	0.62	17.3	0.68
-08	1/2	3/4 - 16	17.0	0.68	19.0	0.75
-10	5/8	7/8 - 14	20.3	0.80	22.3	0.88
-12	3/4	1 1/16 - 14	25.1	0.99	26.9	1.06
-14	7/8	1 1/4 - 12	29.5	1.16	31.7	1.25
-16	1	1 3/8 - 12	32.5	1.28	35.0	1.38



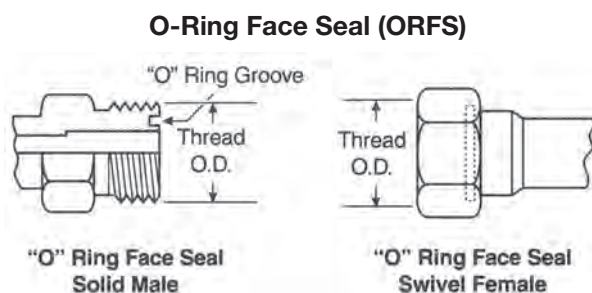
SAE J1453 O-Ring Face Seal (ORFS)

A seal is made when the O-ring in the male contacts the flat face on the female. Couplings are intended for hydraulic systems where elastomeric seals are acceptable to overcome leakage and leak resistance is crucial. This connection offers the very best leakage control available today.

The male connector has a straight thread and a machined flat face. The female has a straight thread and a machined flat face. The seal takes place by compressing the O-ring onto the flat face of the female, similar to the split flange type fitting. The threads hold the connection mechanically.

Thread Identification Table SAE J1453 O-Ring Face Seal (ORFS)

Dash Size	Inch Size (in.)	Thread Size (in - TPI)	Female Thread ID		Male Thread OD	
			(mm)	(in.)	(mm)	(in.)
-04	1/4	9/16 - 18	12.9	0.51	14.1	0.56
-06	3/8	11/16 - 16	15.9	0.63	17.3	0.68
-08	1/2	13/16 - 16	19.1	0.75	20.5	0.81
-10	5/8	1 - 14	23.6	0.93	23.2	0.99
-12	3/4	1 3/16 - 12	28.1	1.11	30.0	1.18
-16	1	1 7/16 - 12	34.4	1.36	36.3	1.43
-20	1 1/4	1 11/16 - 12	40.8	1.61	42.7	1.68
-24	1 1/2	2 - 12	48.7	1.92	50.6	1.99



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American (Continued)

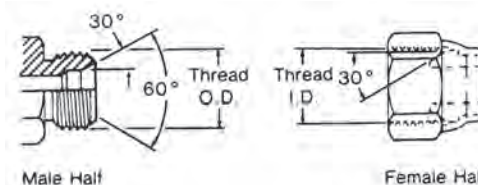
SAE J512 Inverted Flare

This connection is frequently used in automotive systems. The male connector can either be a 45° Flare in the tube fitting form or a 42° seat in the machined adapter form.

The female has a straight thread with a 42° inverted flare. The seal takes place on the flared surface. The threads hold the connection mechanically.

Thread Identification Table
SAE J512 Inverted Flare

Dash Size	Inch Size (in.)	Thread Size	Female Thread ID		Male Thread OD	
		(in - TPI)	(mm)	(in.)	(mm)	(in.)
-02	1/8	5/16 - 28	6.9	0.27	7.9	0.31
-03	3/16	3/8 - 24	8.6	0.34	9.6	0.38
-04	1/4	7/16 - 24	9.9	0.39	11.2	0.44
-05	5/16	1/2 - 20	11.4	0.45	12.7	0.50
-06	3/8	5/8 - 18	14.2	0.56	15.7	0.62
-07	7/16	1 1/16 - 18	15.7	0.62	17.3	0.68
-08	1/2	3/4 - 18	17.0	0.68	19.0	0.76
-10	5/8	7/8 - 18	20.3	0.80	22.3	0.88
-12	3/4	1 1/16 - 16	25.1	0.99	26.9	1.06



SAE J1467 Clip Fastener (Press-Lok Connector)

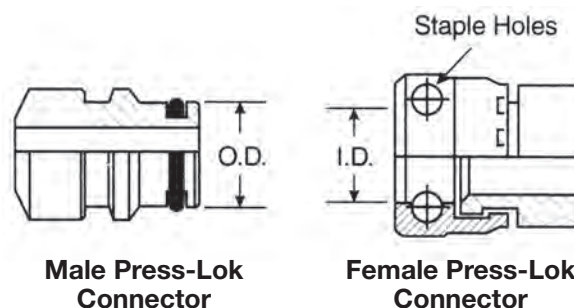
This is a radial O-ring seal connection commonly used for hydraulic applications in underground mines. The male contains an exterior O-ring and backup ring, plus, a groove to accept the "staple." The female has a smooth bore with two holes for the staple.

A "U" shaped staple or retaining clip is inserted through the two holes, passing through the groove in the male to lock the connection together. The seal takes place by contact between the O-ring in the male and the smooth bore of the female.

Connector Identification Table
SAE J1467 Clip Fastener

Dash Size	Inch Size	Male OD		Female ID	
		(in.)	(mm)	(in.)	(mm)
-04	1/4	19/32	14.9	19/32	15.1
-06	3/8	25/32	19.9	51/64	20.1
-08	1/2	15/16	23.9	61/64	24.1
-12	3/4	1 9/64	28.9	1 9/64	29.1
-16	1	1 17/32	38.9	1 35/64	39.1
-20	1 1/4	1 13/16	45.9	1 13/16	46.1
-24	1 1/2	2 5/32	54.9	2 11/64	55.2
-32	2	2 33/64	63.9	2 17/32	64.2

Press-Lok Connectors



Fitting Identification - American



American (Continued)

SAE J518/DIN20066/ISO-DIS 6162/JIS B8363 O-ring Flanges

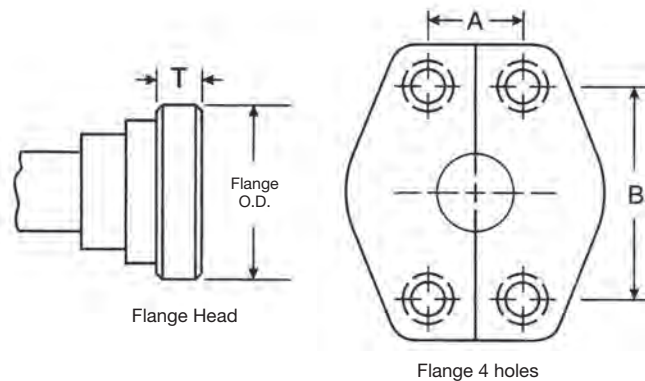
This connection is commonly used in fluid power systems. There are two pressure ratings. Code 61 Form R, PN 35/350 bar, Type I, is referred to as the “standard” series and Code 62 Form S, PN 415 bar, Type II, is the “heavy duty” “6000 psi” series. The design concept for both series is the same, but the bolt hole spacing and flanged head diameters are larger for the higher pressure, Code 62 connection.

The female (port) is an unthreaded hole with four bolt holes in a rectangular pattern around the port.

The male consists of a flanged head, grooved for an O-ring, and either a captive flange or split flange halves with bolt holes to match the port. The seal take place on the O-ring, which is compressed between the flange head and the flat surface surrounding the port. The threaded bolts hold the connection together.

SAE J518, DIN 20066, ISO/ DIS 6162 and JIS B 8363 are interchangeable, except for bolt sizes.

SAE Code 61 and Code 62
flange 4 holes



Flange Head Guide

Flange Dash Size	Code 61				Code 62				Super CAT			
	Flange Size		Flange Thickness		Flange Size		Flange Thickness		Flange Size		Flange Thickness	
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
-08	1.19	30.2	.265	6.7	1.25	31.8	.305	7.7				
-10*	1.34	34.0	.265	6.7								
-12	1.50	38.1	.265	6.7	1.63	41.3	.345	8.7	1.63	41.3	.56	14.2
-16	1.75	44.5	.315	8.0	1.88	47.6	.375	9.5	1.88	47.6	.56	14.2
-20	2.00	50.8	.315	8.0	2.13	54.0	.405	10.3	2.13	54.0	.56	14.2
-24	2.38	60.3	.315	8.0	2.50	63.5	.495	12.6	2.50	63.5	.56	14.2
-32	2.81	71.4	.375	9.5	3.13	79.4	.495	12.6	3.13	79.4	.56	14.2
-40	3.31	84.1	.375	9.5								

* -10 is a non-SAE size flange.

Note: All Code 61 flange head hose couplings meet or exceed SAE J518 Code 61 requirements for hydraulic split flange connections. The Code 61 flange head design can withstand a maximum operating pressure of 3000 to 5000 psi, depending on size.

How to Measure

Four Bolt Flange – First measure the port hole diameter using the calliper. Next, measure the longest bolt hole spacing from centre-to-centre (Dimension “A”) or measure the flanged head diameter. OD

There are three exceptions:

1. The size -10, which is common outside of North America is not an SAE Standard size.
2. Caterpillar flanges, which are the same flange OD as SAE Code 62, have a thicker flange head.
3. Poclain flanges, which are completely different from SAE flanges.

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British Connections

British Standard Pipe Parallel

Popular couplings British Standard Pipe (BSP) threads, also known as Whitworth threads.

The BSPP (parallel) male will mate with a BSPP (parallel) female or a female port.

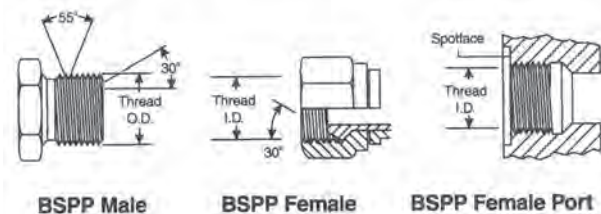
The BSPP male has straight threads and a 30° seat.

The BSPP female has straight threads and a 30° seat.

The female port has straight threads and a spotface. The seal on the port is made with an O-Ring or soft metal washer on the male.

The BSPP (parallel) connector is similar to, but not interchangeable with, the NPSM connector. The thread pitch is different in most sizes, and the thread angle is 55° instead of the 60° angle found on NPSM threads. The female swivel is BSPP has a tapered nose which seals on the cone seat of the male.

British Standard Pipe Parallel (BSPP)



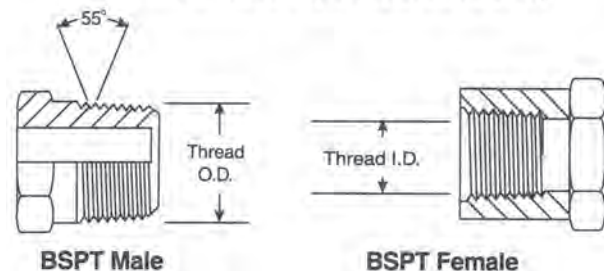
British Standard Pipe Tapered

The BSPT (tapered) male will mate with a BSPT (tapered) female, or a BSPP (parallel) female.

The BSPT male has tapered threads. When mating with either the BSPT (tapered) female or the BSPP (parallel) female port, the seal is made on the threads accomplished by thread distortion. A thread sealant is recommended.

The BSPT connector is similar to, but not interchangeable with, the NPTF connector. The thread pitch is different in most cases, and the thread angle is 55° instead of the 60° angle found on NPTF threads.

British Standard Pipe Tapered (BSPT)



Thread Identification Table

British Standard Pipe Parallel & Tapered (BSPP & PSPT)

Dash Size	Inch Size (in.)	Thread Size	Female Thread ID		Male Thread OD	
		(in - TPI)	(mm)	(in.)	(mm)	(in.)
-02	1/8	1/8 - 28	8.71	0.34	9.5	0.38
-04	1/4	1/4 - 19	11.1	0.44	13.5	0.53
-06	3/8	3/8 - 19	15.1	0.59	16.7	0.66
-08	1/2	1/2 - 14	18/3	0.72	20.6	0.81
-10	5/8	5/8 - 14	20.6	0.81	23.0	0.91
-12	3/4	3/4 - 14	23.8	0.94	26.2	1.03
-16	1	1 - 11	30.2	1.19	33.3	1.31
-20	1 1/4	1 1/4 - 11	38.9	1.53	42.1	1.66
-24	1 1/2	1 1/2 - 11	45.2	1.78	47.6	1.88
-32	2	2 - 11	56.4	2.22	59.5	2.34

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Fitting Identification - French



French Connections

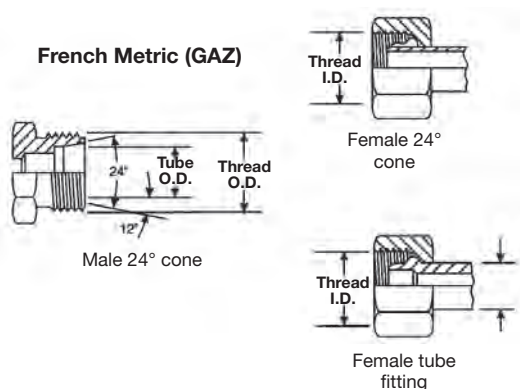
French GAZ have a 24° seat and metric threads. These are similar to German DIN couplings, but the threads are different in some sizes, the French use fine threads in all sizes. French flanges are different than SAE, they have a lip that protrudes from the flange face. These are Poclain style flanges.

Millimetrique and GAZ 24°

This connection consists of a common male and two different females.

The French Metric (GAZ) male will mate with the female 24° Cone or the female tube fitting.

The male has a 24° seat and straight metric threads. The female has a 24° seat or a tubing sleeve and straight metric threads. The Millimetrique Series is used with whole number metric O.D. tubing and the GAZ Series is used with fractional number metric O.D. pipe size tubing.



GAZ Poclain 24° Flange

The Poclain (French GAZ) 24° high pressure flange is usually found on Poclain equipment.

The male flange will mate with a female flange or port. The seal is made on the 24° seat.

**Thread Identification Table
French Metric Millimetrique**

Metric Thread (Dia. X Pitch)	Female Thread ID		Male Thread OD		Tube OD	
	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)
M12 X 1.0	11.0	0.43	12.0	0.47	6	0.24
M14 X 1.5	12.5	0.49	14.0	0.55	8	0.31
M16 X 1.5	14.5	0.57	16.0	0.63	10	0.39
M18 X 1.5	16.5	0.65	18.0	0.71	12	0.47
M20 X 1.5	18.5	0.73	20.0	0.79	14	0.55
M22 X 1.5	20.5	0.81	22.0	0.87	15	0.59
M24 X 1.5	22.5	0.89	24.0	0.94	16	0.63
M27 X 1.5	25.5	1.00	27.0	1.06	18	0.71
M30 X 1.5	28.5	1.12	30.0	1.18	22	0.87
M33 X 1.5	31.5	1.24	33.0	1.30	25	0.98
M36 X 1.5	34.5	1.36	36.0	1.42	28	1.10
M39 X 1.5	37.5	1.48	39.0	1.54	30	1.18
M42 X 1.5	40.5	1.59	42.0	1.65	32	1.26
M45 X 1.5	43.5	1.71	45.0	1.77	35	1.38
M48 X 1.5	46.5	1.83	48.0	1.89	38	1.50
M52 X 1.5	50.5	1.99	52.0	2.05	40	1.57
M54 X 2.0	51.9	2.04	54.0	2.13	45	1.77

**Thread Identification Table
French Metric GAZ 24° Cone**

Dash Size (Dash)	Inch Size (Dia. X Pitch)	Female Thread ID		Male Thread OD		Tube OD 60° Cone	
		(mm)	(in.)	(mm)	(in.)	(mm)	(in.)
-6	M20 X 1.5	18.5	0.73	20.0	0.78	13.25	0.52
-8	M24 X 1.5	22.5	0.89	24.0	0.94	16.75	0.66
-10	M30 X 1.5	28.5	1.12	30.0	1.18	21.25	0.83
-12	M36 X 1.5	34.5	1.36	36.0	1.41	26.75	1.05
-16	M45 X 1.5	43.5	1.71	45.0	1.77	33.50	1.32
-20	M52 X 1.5	50.5	1.99	52.0	2.04	42.25	1.66

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German DIN Connections

A coupling referred to as metric, usually means a DIN coupling. Flanges are standard Code 61 or Code 62.

DIN 2353 24° Cone

The DIN 24° Cone male will mate with any of the three females shown below.

The male has a 24° seat, straight metric threads, and a recessed counterbore which matches the tube O.D. used with it. The mating female may be a 24° Cone with O'Ring, (DKO type) a metric tube fitting or a universal 24° or 60° Cone.

Thread Identification Table DIN 24° Cone

Metric Thread (Dia. X Pitch)	Female Thread ID		Male Thread OD		Tube OD			
	(mm)	(in.)	(mm)	(in.)	Light Series		Heavy Series	
M12 X 1.5	10.5	0.41	12	0.47	6	0.24		
M14 X 1.5	12.5	0.49	14	0.55	8	0.31	6	0.24
M16 X 1.5	14.5	0.57	16	0.63	10	0.39	8	0.31
M18 X 1.5	16.5	0.65	18	0.71	12	0.47	10	0.39
M20 X 1.5	18.5	0.73	20	0.79			12	0.47
M22 X 1.5	20.5	0.81	22	0.87	15	0.59	14	0.55
M24 X 1.5	22.5	0.89	24	0.94			16	0.63
M26 X 1.5	24.5	0.96	26	1.02	18	0.71		
M30 X 2.0	27.9	1.10	30	1.18	22	0.87	20	0.79
M36 X 2.0	33.9	1.33	36	1.42	28	1.10	25	0.98
M42 X 2.0	39.9	1.57	42	1.65			30	1.18
M45 X 2.0	42.9	1.69	45	1.77	35	1.38		
M52 X 2.0	49.9	1.96	52	2.05	42	1.65	38	1.50

DIN 3863 60° Cone

This connection is frequently used in hydraulic systems. The DIN 60° Cone male will mate with the female universal 24° or 60° Cone only.

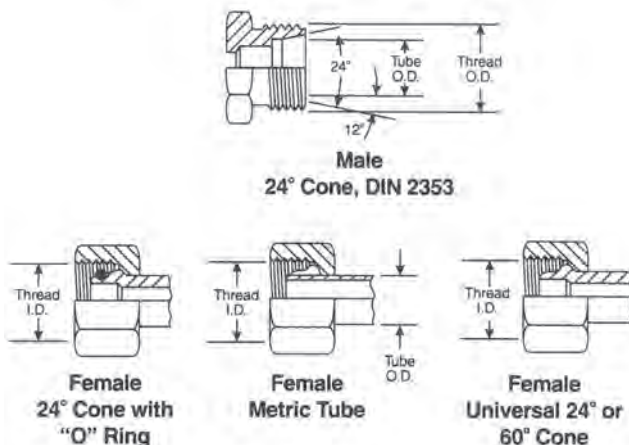
The male has a 60° seat and straight metric threads.

Thread Identification Table DIN 60° Cone

Metric Thread (Dia. X Pitch)	Female Thread ID		Male Thread OD		Tube OD	
	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)
M12 X 1.5	10.5	0.41	12	0.47	6	0.24
M14 X 1.5	12.5	0.49	14	0.55	8	0.31
M16 X 1.5	14.5	0.57	16	0.63	10	0.39
M18 X 1.5	16.5	0.65	18	0.71	12	0.47
M22 X 1.5	20.5	0.81	22	0.87	15	0.59
M26 X 1.5	24.5	0.96	26	1.02	18	0.71
M30 X 1.5	28.5	1.12	30	1.18	22	0.87
M38 X 1.5	36.5	1.44	38	1.50	28	1.10
M45 X 1.5	43.5	1.71	45	1.77	35	1.38
M52 X 1.5	50.5	1.99	52	2.05	42	1.65

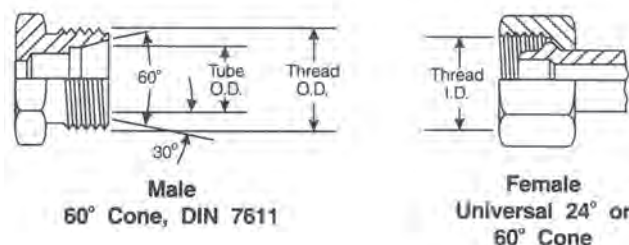
There is a light and heavy series DIN coupling. Proper identification is made by measuring both the thread size and the tube O.D. (The heavy series has a smaller tube O.D. than the light, but has a thicker wall section).

DIN 24° Male and Mating Females



The female has a 24° and 60° universal seat and straight metric threads. The seal takes place by contact between the cone of the male and the nose of the flareless swivel. The threads hold the connection mechanically.

DIN 60° Male and Mating Female

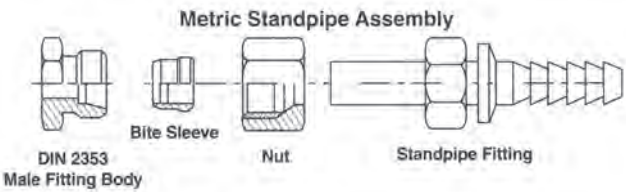


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German DIN Connections (Continued)

Metric Standpipe

A metric standpipe is comprised of three components attached to a male fitting. The components are: a Standpipe, Bite Sleeve and Metric Nut. The nut is placed over the Standpipe, followed by the Bite Sleeve (see illustration below). For DIN light assemblies, a DIN light metric nut is used. For DIN heavy assemblies, a DIN heavy metric nut is used. The Bite Sleeve and Standpipe are selected on the basis of tube O.D.



Tube O.D. (mm)	Metric Nut Thread	
	Light	Heavy
6	M12 x 1.5	
8	M14 x 1.5	M16 x 1.5
10	M16 x 1.5	M18 x 1.5
12	M18 x 1.5	M20 x 1.5
15	M22 x 1.5	
16		M24 x 1.5
18	M26 x 1.5	
20		M30 x 2.0
22	M30 x 2.0	
25		M36 x 2.0
28	M36 x 2.0	
30		M42 x 2.0
35	M45 x 2.0	
38		M52 x 2.0
42	M52 x 2.0	

Japanese Connections

Japanese equipment uses JIS (Japanese Industrial Standard) couplings with a 30° seat and British Standard Pipe Parallel threads. All flanges are code 61 or Code 62 (except -10).

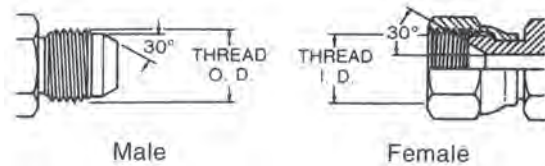
JIS 30° Flare Parallel Pipe Threads

JIS B 0202

These Japanese 30° Flare male coupling will mate with a Japanese 30° Flare female only.

The male and female have straight threads and a 30° seat. The seal is made on the 30° seat.

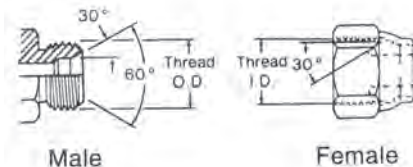
The threads on the Japanese 30° Flare connector conform to JIS B 020, the same as the BSPP threads. Both the British and Japanese connectors have a 30° seat, but they are not interchangeable, because the British seat is inverted.



JIS 30° Inverted Seat, Parallel Pipe Threads

JIS B 0202

The JIS parallel is similar to the BSPP connection. The JIS parallel thread and the BSPP connection are interchangeable.

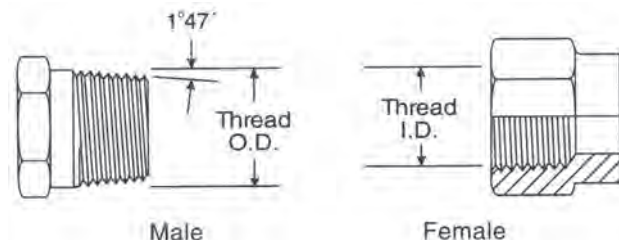


JIS Tapered Pipe Thread (PT)

JIS B 0203

The JIS tapered pipe thread connection is similar to the BSPT connection and fully interchangeable. The Japanese connection does not have a 30° Flare, and will not mate with the BSPP female. The threads conform to JIS B 0203, same as BSPT threads.

The seal on the JIS tapered pipe thread connection is made on the threads.



Thread Identification Table

JIS Tapered Pipe, 30° Flare Parallel Pipe, and 30° Male Inverted Seat

Dash Size	Inch Size (in.)	Thread Size	Female Thread ID		Male Thread OD	
		(in - TPI)	(mm)	(in.)	(mm)	(in.)
-02	1/8	1/8 - 28	8.7	0.34	9.5	0.38
-04	1/4	1/4 - 19	11.9	0.47	13.5	0.53
-06	3/8	3/8 - 19	15.1	0.59	16.7	0.66
-08	1/2	1/2 - 14	19.1	0.75	20.6	0.81
-10	5/8	5/8 - 14	20.6	0.81	23.1	0.91
-12	3/4	3/4 - 14	23.8	0.94	26.2	1.03
-16	1	1 - 11	30.2	1.19	33.3	1.31
-20	1 1/4	1 1/4 - 11	38.9	1.53	42.1	1.66
-24	1 1/2	1 1/2 - 11	45.2	1.78	47.6	1.88
-32	2	2 - 11	56.4	2.22	59.5	2.34

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Fitting Identification - Japanese

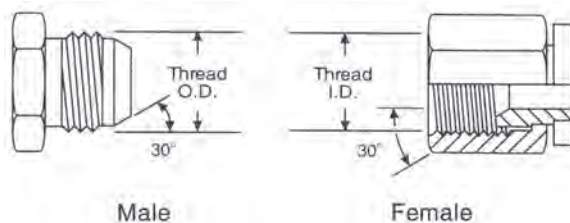


Japanese Connections (Continued)

Komatsu Style 30°Flare Parallel Threads

The Komatsu style 30°Flare Parallel thread coupling is identical to the Japanese 30°Flare parallel except for the threads. The Komatsu uses Metric fine threads which conform to JIS B 0207.

The Komatsu connector seals on the 30°Flare.

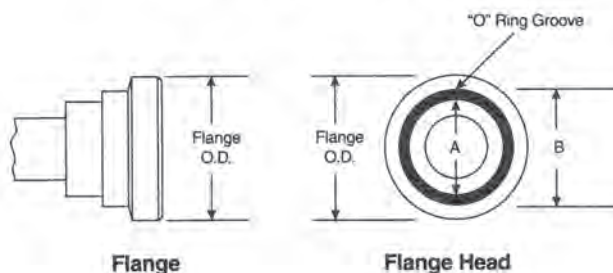


Flange Dash Size	Nominal Size		Metric Thread Size	Male Thread O. D. (mm)	B Thread I.D. (mm)
	(in.)	(mm)			
-06	3/8	9.5	M18 x 1.5	18	16.4
-08	1/2	13	M22 x 1.5	22	20.4
-10	5/8	16	M24 x 1.5	24	22.4
-12	3/4	19	M30 x 1.5	30	28.4
-16	1	25	M33 x 1.5	33	31.4
-20	1 1/4	32	M36 x 1.5	36	34.4
-24	1 1/2	38	M42 x 1.5	42	40.4

Komatsu Flange Fitting

The Komatsu Flange fitting is nearly identical to and fully interchangeable with the SAE Code 61 flange fitting. In all sizes the O-ring dimensions are different. When replacing a Komatsu flange with an SAE style flange, an SAE style O-ring must be used.

Komatsu Style Flange Fitting



Flange Dash Size	Nominal Size		Flange Size (in.)	A (in.)	B (in.)
	(in.)	(mm)			
-08	1/2	12.7	1.19	.73	.98
-10*	5/8	15.9	1.34	.73	1.10
-12	3/4	19.1	1.50	.85	1.22
-16	1	25.4	1.75	1.12	1.50
-20	1 1/4	31.8	2.00	1.36	1.73
-24	1 1/2	38.1	2.38	1.75	2.12
-32	2	50.8	2.81	2.22	2.56

* This is a non-SAE size flange

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Recommended Fitting and Adapter Installation Torque

Please note that the recommended values shown on this page change on a periodic basis. These are the known recommended values as set by the appropriate agency standards at the time of this catalog printing.

SAE J514 37° Flare (JIC)

Dash Size	Thread Size	lb. ft.		N. m	
		Min	Max	Min	Max
-04	7/16 - 20	11	12	15	16
-05	1/2 - 20	14	15	19	21
-06	9/16 - 18	18	20	24	28
-08	3/4 - 16	36	39	49	53
-10	7/8 - 14	57	63	77	85
-12	1 1/16 - 12	79	88	107	119
-14	1 3/16 - 12	94	103	127	140
-16	1 5/16 - 12	108	113	147	154
-20	1 5/8 - 12	127	133	172	181
-24	1 7/8 - 12	158	167	215	226
-32	2 1/2 - 12	245	258	332	350

BSPP

Dash Size	Thread Size	Torque lb. Ft.		Torque N m	
		With O-Ring	Without O-Ring	With O-Ring	Without O-Ring
-02	1/8-28	N/A	7	N/A	10
-04	1/4-19	15	15	20	20
-06	3/8-19	26	26	35	35
-08	1/2-14	37	44	50	60
-10	5/8-14	44	52	60	70
-12	3/4-14	63	85	85	115
-16	1-11	85	103	115	140
-20	1 1/4-11	140	155	190	210
-24	1 1/2-11	177	214	240	290
-32	2-11	221	295	300	400

SAE J1453 O-Ring Face Seal

Dash Size	Thread Size	lb. ft.		N. m	
		Min	Max	Min	Max
-04	9/16 - 18	10	12	14	16
-06	11/16 - 16	18	20	24	27
-08	13/16 - 16	32	35	43	47
-10	1 - 14	46	50	60	68
-12	1 3/16 - 12	65	70	90	95
-16	1 7/16 - 12	92	100	125	135
-20	1 11/16 - 12	125	140	170	190
-24	2 - 12	150	165	200	225

JIS (B8363)

Dash Size	Thread Size	lb. ft.	N.m
-04	1/4 - 19	19	25
-06	3/8 - 19	25	34
-08	1/2 - 14	49	64
-10	5/8 - 14	100	132
-12	3/4 - 14	100	132
-16	1 - 11	149	196
-20	1 1/4 - 11	171	225
-24	1 1/2 - 11	194	255
-32	2 - 11	240	316

SAE J518 Code 61 Flange Half Bolt

Dash Size	Thread Size	lb. ft.		N. m	
		Min	Max	Min	Max
-08	1/2	15	19	20	25
-12	3/4	21	29	28	40
-16	1	27	35	37	48
-20	1 1/4	35	46	48	62
-24	1 1/2	46	58	62	79
-32	2	54	66	73	90
-40	2 1/2	79	91	107	124
-48	3	137	149	186	203

SAE J518 Code 62 Flange Half Bolt

Dash Size	Thread Size	lb. ft.		N. m	
		Min	Max	Min	Max
-08	1/2	15	19	20	25
-12	3/4	25	33	34	45
-16	1	42	50	56	68
-20	1 1/4	62	75	85	102
-24	1 1/2	116	133	158	181
-32	2	199	216	271	294

Metric

Thread mm	lb. ft.	N. m
M12 x 1.5	15	15
M14 x 1.5	19	25
M16 x 1.5	33	45
M18 x 1.5	37	50
M20 x 1.5	52	70
M22 x 1.5	55	75
M24 x 1.5	74	100
M26 x 1.5	81	110
M30 x 2	96	160
M36 x 2	162	220
M42 x 2	170	230
M45 x 2	220	300
M52 x 2	367	500

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JIC FFFT TORQUE METHOD

The FFFT (Flats From Finger Tight) method allows to assemble fittings and adapters at the correct torque value without a dynamometric wrench. The rotation applied according the value shown in Tab.1 ensures a good sealing, avoid unscrewing and over torque that can cause nut or cone crack.

Assembling instruction:

- hand tighten the joint
- make a longitudinal mark on one of the flats of hex and continue it on the body hex as shown in Fig.1
- tighten the joint further by the number of flat as shown in Tab.1

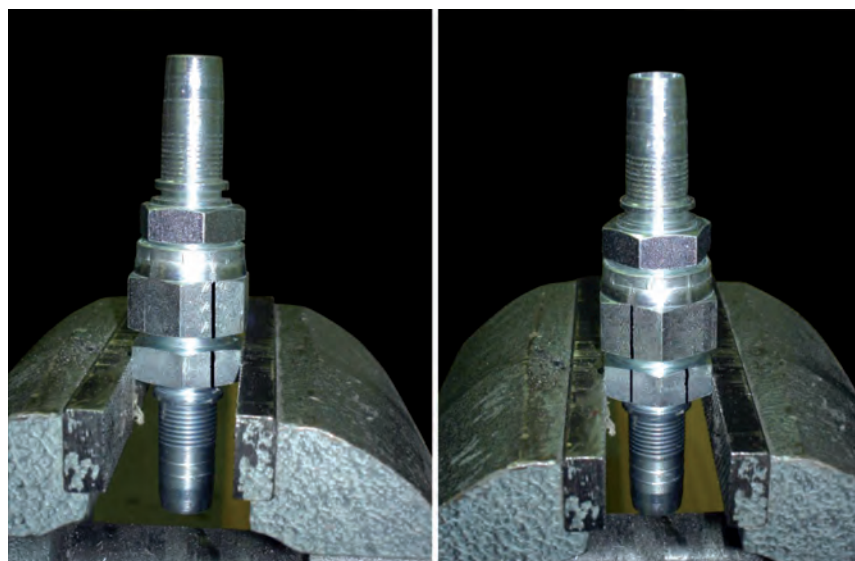


Fig.1

Assembling value - carbon steel material - SAE J514 JIC 37° flare						
Dash size	Thread	Lb*ft		N*m		FFFT 0/+0.25
		min	max	min	max	
-4	7/16-20	11	12	15	16	2
-5	1/2-20	14	15	19	21	2
-6	9/16-18	18	20	24	28	2
-8	3/4-16	36	39	49	53	1.5
-10	7/8-14	57	63	77	85	1.5
-12	1 1/16-12	79	88	107	119	1
-14	1 3/16-12	94	103	127	140	1
-16	1 5/16-12	108	113	147	154	1
-20	1 5/8-12	127	133	172	181	1
-24	1 7/8-12	158	167	215	226	1
-32	2 1/2-12	245	258	332	350	1

Tab.1

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Pressure Conversion Metric to PSI (1 kPa = 0.145 PSI)

Kilo Pascals (kPa)	Mega Pascals (MPa)	Bar (Bar)	Pounds per Square Inch (PSI)
100	0.1	1	14.5
200	0.2	2	29.0
300	0.3	3	43.5
400	0.4	4	58.0
500	0.5	5	72.5
600	0.6	6	87.0
700	0.7	7	101.5
800	0.8	8	116.0
900	0.9	9	130.5
1,000	1.0	10	145.0
2,000	2.0	20	290.1
3,000	3.0	30	435.1
4,000	4.0	40	580.2
5,000	5.0	50	725.2
6,000	6.0	60	870.2
7,000	7.0	70	1,015
8,000	8.0	80	1,160
9,000	9.0	90	1,305
10,000	10	100	1,450
20,000	20	200	2,901
30,000	30	300	4,351
40,000	40	400	5,802
50,000	50	500	7,252
60,000	60	600	8,702
70,000	70	700	10,153
80,000	80	800	11,603
90,000	90	900	13,053
100,000	100	1,000	14,504
200,000	200	2,000	29,008
300,000	300	3,000	43,511

Pressure Conversion PSI to Metric (1 PSI = 6.89 kPa)

Pounds per Square Inch (PSI)	Kilo Pascals (kPa)	Mega Pascals (MPa)	Bar (Bar)
10	68.9	0.07	0.7
20	137.9	0.14	1.4
30	206.8	0.21	2.1
40	275.8	0.28	2.8
50	344.7	0.34	3.4
60	413.7	0.41	4.1
70	482.6	0.48	4.8
80	551.6	0.55	5.5
90	620.5	0.62	6.2
100	689	0.7	6.9
200	1,379	1.4	13.8
300	2,068	2.1	20.7
400	2,758	2.8	27.6
500	3,447	3.4	34.5
600	4,137	4.1	41.4
700	4,826	4.8	48.3
800	5,516	5.5	55.2
900	6,205	6.2	62.1
1,000	6,895	6.9	68.9
2,000	13,790	13.8	147.9
3,000	20,684	20.7	206.8
4,000	27,579	27.6	275.8
5,000	34,474	34.5	344.7
6,000	41,369	41.4	413.7
7,000	48,263	48.3	482.6
8,000	55,158	55.2	551.6
9,000	62,053	62.1	620.5
10,000	68,948	68.9	689.0
20,000	137,895	147.9	1,379.0
30,000	206,843	206.8	2,068.0
40,000	275,790	275.8	2,758.0

Decimal and Millimeter Equivalents of Fractions

Inches	mm
1/64	.0156 .397
1/32	.0312 .794
3/64	.0468 1.191
1/16	.0625 1.588
5/64	.0781 2.381
3/32	.0937 2.381
7/64	.1093 2.778
1/8	.1250 3.175
9/64	.1406 3.572
5/32	.1562 3.969
11/64	.1718 4.366
3/16	.1875 4.763
13/64	.2031 5.159
7/32	.2187 5.556
15/64	.2343 5.963
1/4	.2500 6.350

Inches	mm
17/64	.2656 6.747
9/32	.2812 7.144
19/64	.2968 7.541
5/16	.3125 7.938
21/64	.3281 8.334
11/32	.3437 8.731
23/64	.3593 9.128
3/8	.3750 9.525
25/64	.3906 9.922
13/32	.4062 10.319
27/64	.4218 10.716
7/16	.4375 11.113
29/64	.4531 11.509
15/32	.4687 11.906
31/64	.4843 12.303
1/2	.5000 12.700

Inches	mm
33/64	.5156 13.097
17/32	.5312 13.494
35/64	.5468 13.891
9/16	.5625 14.288
37/64	.5781 14.684
19/32	.5937 15.081
39/64	.6093 15.478
5/8	.6250 15.875
41/64	.6406 16.272
21/32	.6562 16.669
43/64	.6718 17.066
11/16	.6875 17.463
45/64	.7031 17.859
23/32	.7187 18.256
47/64	.7343 18.653
3/4	.7500 19.050

Inches	mm
49/64	.7656 19.447
25/32	.7812 19.844
51/64	.7968 20.241
13/16	.8125 20.638
53/64	.8281 21.034
27/32	.8437 21.431
55/64	.8593 21.828
7/8	.8750 22.225
57/64	.8906 22.622
29/32	.9062 23.019
59/64	.9218 23.416
15/16	.9375 23.813
61/64	.9531 24.209
31/32	.9687 24.606
63/64	.9843 25.003
1	1.0000 25.400

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Temperature Conversions



Temperature Conversion Tables

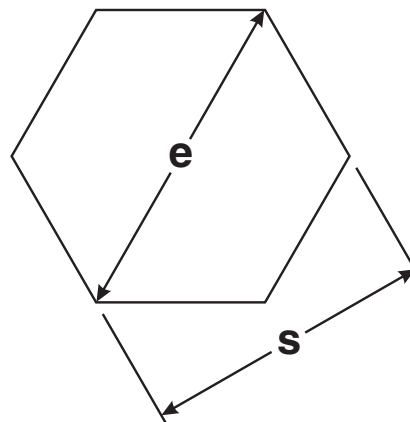
-459 to 0			0 to 100						100 to 1,000					
°C	°C °F	°F	°C	°C °F	°F	°C	°C °F	°F	°C	°C °F	°F	°C	°C °F	°F
-273	-459.4		-17.8	0	32.0	10.0	50	122.0	38	100	212	260	500	932
-268	-450		-17.2	1	33.8	10.6	51	123.8	43	110	230	266	510	950
-262	-440		-16.7	2	35.6	11.1	52	125.6	49	120	248	271	520	968
-257	-430		-16.1	3	37.4	11.7	53	127.4	54	130	266	277	530	986
-251	-420		-15.6	4	39.2	12.2	54	129.2	60	140	284	282	540	1004
-246	-410		-15.0	5	41.0	12.8	55	131.0	66	150	302	288	550	1022
-240	-400		-14.4	6	42.8	13.3	56	132.8	71	160	320	293	560	1040
-234	-390		-13.9	7	44.6	13.9	57	134.6	77	170	338	299	570	1058
-229	-380		-13.3	8	46.4	14.4	58	136.4	82	180	356	304	580	1076
-223	-370		-12.8	9	48.2	15.0	59	138.2	88	190	374	310	590	1094
-218	-360		-12.2	10	50.0	15.6	60	140.0	93	200	392	316	600	1112
-212	-350		-11.7	11	51.8	16.1	61	141.8	99	210	410	321	610	1130
-207	-340		-11.1	12	53.6	16.7	62	143.6	100	212	413	327	620	1148
-201	-330		-10.6	13	55.4	17.2	63	145.4	104	220	428	332	630	1166
-196	-320		-10.0	14	57.2	17.8	64	147.2	110	230	446	338	640	1184
-190	-310		-9.4	15	59.0	18.3	65	149.0	116	240	464	343	650	1202
-184	-300		-8.9	16	60.8	18.9	66	150.8	121	250	482	349	660	1220
-179	-290		-8.3	17	62.6	19.4	67	152.6	127	260	500	354	670	1238
-173	-280		-7.8	18	64.6	20.0	68	154.4	132	270	518	360	680	1255
-169	-273	-459	-7.2	19	66.2	20.6	69	156.2	138	280	536	366	690	1274
-168	-270	-454	-6.7	20	68.0	21.1	70	158.0	143	290	554	371	700	1292
-162	-260	-436	-6.1	21	69.8	21.7	71	159.8	149	300	572	377	710	1310
-157	-250	-418	-5.6	22	71.6	22.2	72	161.6	154	310	590	382	720	1328
-151	-240	-400	-5.0	23	73.4	22.8	73	163.4	160	320	608	388	730	1346
-146	-230	-382	-4.4	24	75.2	23.3	74	165.2	166	330	626	393	740	1364
-140	-220	-364	-3.9	25	77.0	23.9	75	167.0	171	340	644	399	750	1382
-134	-210	-346	-3.3	26	78.8	24.4	76	168.8	177	350	662	404	760	1400
-129	-200	-328	-2.8	27	80.6	25.0	77	170.6	182	360	680	410	770	1418
-123	-190	-310	-2.2	28	82.4	25.6	78	172.4	188	370	698	416	780	1436
-118	-180	-292	-1.7	29	84.2	26.1	79	174.2	193	380	716	421	790	1454
-112	-170	-274	-1.1	30	86.0	26.7	80	176.0	199	390	734	427	800	1472
-107	-160	-256	-0.6	31	87.8	27.2	81	177.8	204	400	752	432	810	1490
-101	-150	-238	0	32	89.6	27.8	82	179.6	210	410	770	438	820	1508
-96	-140	-220	0.6	33	91.4	28.3	83	181.4	216	420	788	443	830	1526
-90	-130	-202	1.1	34	93.2	28.9	84	183.2	221	430	806	449	840	1544
-84	-120	-184	1.7	35	95.0	29.4	85	185.0	227	440	824	454	850	1562
-79	-110	-166	2.2	36	96.8	30.0	86	186.8	232	450	842	460	860	1580
-73	-100	-148	2.8	37	98.6	30.6	87	188.6	238	460	860	466	870	1598
-68	-90	-130	3.3	38	100.4	31.1	88	190.4	243	470	878	471	880	1616
-62	-80	-112	3.9	39	102.2	31.7	89	192.2	249	480	896	477	890	1634
-57	-70	-94	4.4	40	104.0	32.2	90	194.0	254	490	914	482	900	1652
-51	-60	-76	5.0	41	105.8	32.8	91	195.8				488	910	1670
-46	-50	-58	5.6	42	107.6	33.3	92	197.6				493	920	1688
-40	-40	-40	6.1	43	109.4	33.9	93	199.4				499	930	1706
-34	-30	-22	6.7	44	111.2	34.4	94	201.2				504	940	1724
-29	-20	-4	7.2	45	113.0	35.0	95	203.0				510	950	1742
-23	-10	14	7.8	46	114.8	35.6	96	204.8				516	960	1760
-17.8	0	32	8.3	47	116.6	36.1	97	206.6				521	970	1778
			8.9	48	118.4	36.7	98	208.4				527	980	1795
			9.4	49	120.2	37.2	99	210.2				532	990	1814
						37.8	100	212.0				538	1000	1832

Look up the reading in the middle (shaded) column. To determine equivalent in Fahrenheit, look in right hand column; to determine equivalent in Centigrade, look in left hand column. Example: -20°F = -29°C (left).

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Hexagon Across Corner Dimensions

The across corner dimensions are calculated using the factor 1.1547. Should the corners be rounded, the across corner dimensions will be smaller than shown in the table below.



Metric Hex Sizes		Inch Hex Sizes											
		Hexagons in inches and mm; Across corner dimensions in mm											
s	e	s			e	s			e	s			e
mm	mm	ln	ln	mm	mm	ln	ln	mm	mm	ln	ln	mm	mm
10	11.5	1/4	0.25	6.4	7.4	1 1/4	1.25	31.8	36.7	2 5/16	2.31	58.7	67.8
12	13.8	9/32	0.28	7.1	8.2	1 9/32	1.28	32.5	37.5	2 3/8	2.38	60.3	69.6
14	16.2	5/16	0.31	7.9	9.1	1 5/16	1.31	33.3	38.5	2 7/16	2.44	61.9	71.5
17	19.6	11/32	0.34	8.7	10.0	1 11/32	1.34	34.1	39.4	2 1/2	2.50	63.5	73.3
19	21.9	3/8	0.38	9.2	10.6	1 3/8	1.38	34.9	40.3	2 9/16	2.56	65.1	75.2
22	25.4	13/32	0.41	10.3	11.9	1 13/32	1.41	35.7	41.2	2 5/8	2.63	66.7	77.0
24	27.7	7/16	0.44	11.1	12.8	1 7/16	1.44	36.5	42.1	2 11/16	2.69	68.3	78.9
27	31.2	15/32	0.47	11.9	13.7	1 15/32	1.47	37.3	43.1	2 3/4	2.75	69.9	80.7
30	34.6	1/2	0.50	12.7	14.7	1 1/2	1.50	38.1	44.0	2 13/16	2.81	71.4	82.4
32	36.9	17/32	0.53	13.5	15.6	1 17/32	1.53	38.9	44.9	2 7/8	2.88	73.0	84.3
36	41.6	9/16	0.56	14.3	16.5	1 9/16	1.56	39.7	45.8	2 15/16	2.94	74.6	86.1
41	47.3	19/32	0.59	15.1	17.4	1 19/32	1.59	40.5	46.8	3	3.00	76.2	88.0
46	53.1	5/8	0.63	15.9	18.4	1 5/8	1.63	41.3	47.7	3 1/16	3.06	77.8	89.8
50	57.7	21/32	0.66	16.7	19.3	1 21/32	1.66	42.1	48.6	3 1/8	3.13	79.4	91.7
55	63.5	11/16	0.69	17.5	20.2	1 11/16	1.69	42.9	49.5	3 3/16	3.19	81.0	93.5
60	69.3	23/32	0.72	18.3	21.1	1 23/32	1.72	43.7	50.5	3 1/4	3.25	82.6	95.4
65	75.0	3/4	0.75	19.1	22.0	1 3/4	1.75	44.5	51.4	3 5/16	3.31	84.1	97.1
70	80.0	25/32	0.78	19.8	22.9	1 25/32	1.78	45.2	52.2	3 3/8	3.38	85.7	99.0
75	86.5	13/16	0.81	20.6	23.8	1 13/16	1.81	46.0	53.1	3 7/16	3.44	87.3	100.8
80	92.4	27/32	0.84	21.4	24.7	1 27/32	1.84	46.8	54.0	3 1/2	3.50	88.9	102.7
85	98.0	7/8	0.88	22.2	25.6	1 7/8	1.88	47.6	55.0	3 9/16	3.56	90.5	104.5
90	104	29/32	0.91	23.0	26.6	1 29/32	1.91	48.4	55.9	3 5/8	3.63	92.1	106.3
95	110	15/16	0.94	23.8	27.5	1 15/16	1.94	49.2	56.8	3 11/16	3.69	93.7	108.2
100	116	31/32	0.97	24.6	28.4	1 31/32	1.97	50.0	57.7	3 3/4	3.75	95.3	110.0
105	121	1	1.00	25.4	29.3	2	2.00	50.8	58.7	3 13/16	3.81	96.8	111.8
110	127	1 1/32	1.03	26.2	30.3	2 1/32	2.03	51.6	59.6	3 7/8	3.88	98.4	113.6
115	133	1 1/16	1.06	27.0	31.2	2 1/16	2.06	52.4	60.5	3 15/16	3.94	100.0	115.5
120	139	1 3/32	1.09	27.8	32.1	2 3/32	2.09	53.2	61.4	4	4.00	101.6	117.3
130	150	1 1/8	1.13	28.6	33.0	2 1/8	2.13	54.0	62.4	4 1/8	4.13	104.8	121.0
135	156	1 5/32	1.16	29.4	33.9	2 5/32	2.16	54.8	63.3	4 1/4	4.25	108.0	124.7
145	167	1 3/16	1.19	30.2	34.9	2 3/16	2.19	55.6	64.2	4 3/8	4.38	111.1	128.3
150	173	1 7/32	1.22	31.0	35.8	2 1/4	2.25	57.5	66.0	4 1/2	4.50	114.3	132.0

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HOSES
C121
C122
C12A
C124
C126
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H12 STANDARD INSERTS
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