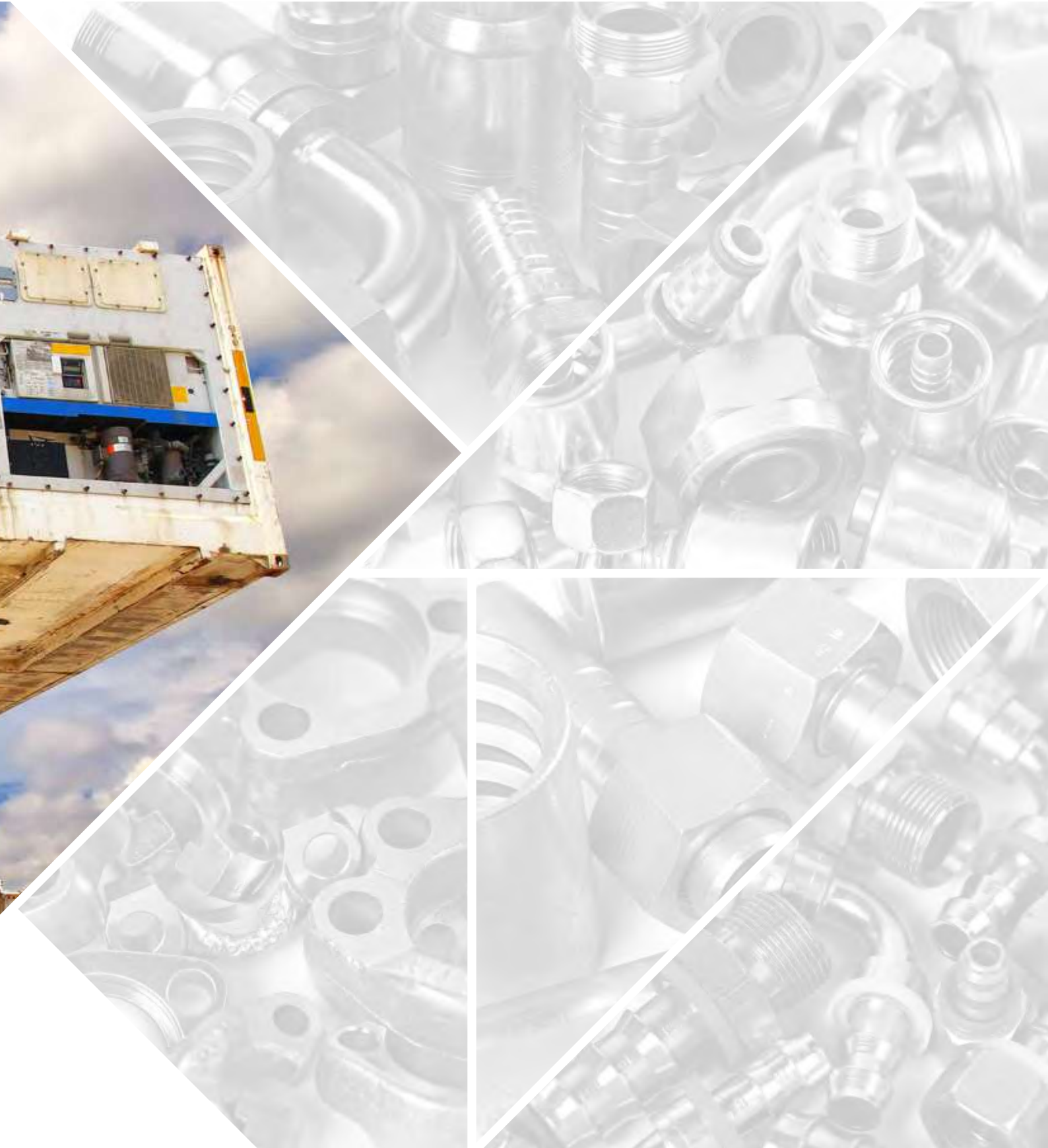




INTEGRATED FLUID POWER SOLUTIONS

# THE WORLD OF COUPLINGS



# iLOK™ COUPLING

THE WORLD OF COUPLINGS

## MAXIMISES OPERATION UPTIME



*iLok™ is Gates' answer to the traditional staple-lock coupling, specifically designed to increase safety and substantially reduce downtime when disconnecting and reconnecting the coupling, a key challenge when moving and re-assembling in longwall mining.*

### Safe productivity

Circumstances in longwall mines are harsh on miners and equipment alike. Traditional staple couplings become deformed and corroded, making it extremely challenging to replace damaged hose assemblies or to disconnect roof shields. This often results in workers mistreating hoses and couplings, endangering themselves and the equipment. Gates helps you to improve both safety and productivity by introducing the new iLok™ coupling that retains the simplicity of staple-lock couplings but locks out the inherent limits of its design.

- › **Ease of use:** easy-to-understand design, quick to connect and disconnect by hand
- › **Safe disengagement:** helps to avoid dangerous disconnecting situations and dissipates residual pressure away from workers
- › **Time and labour savings:** reduces average disconnect time per coupling by up to 90%
- › **Robustness:** secure cable distributes forces along full length of flange area, no uneven staple stress or deformation
- › **Extended lifetime:** allows relative rotation to counter torsional stress on the hose assemblies between the self-advancing roof shields
- › **Compactness:** fits in virtually every corner. Abrasion or damage to nearby hoses is prevented by the absence of sharp ends of protruding staples.



*Compared to a staple-lock coupling, iLok™ is safer and more efficient!*

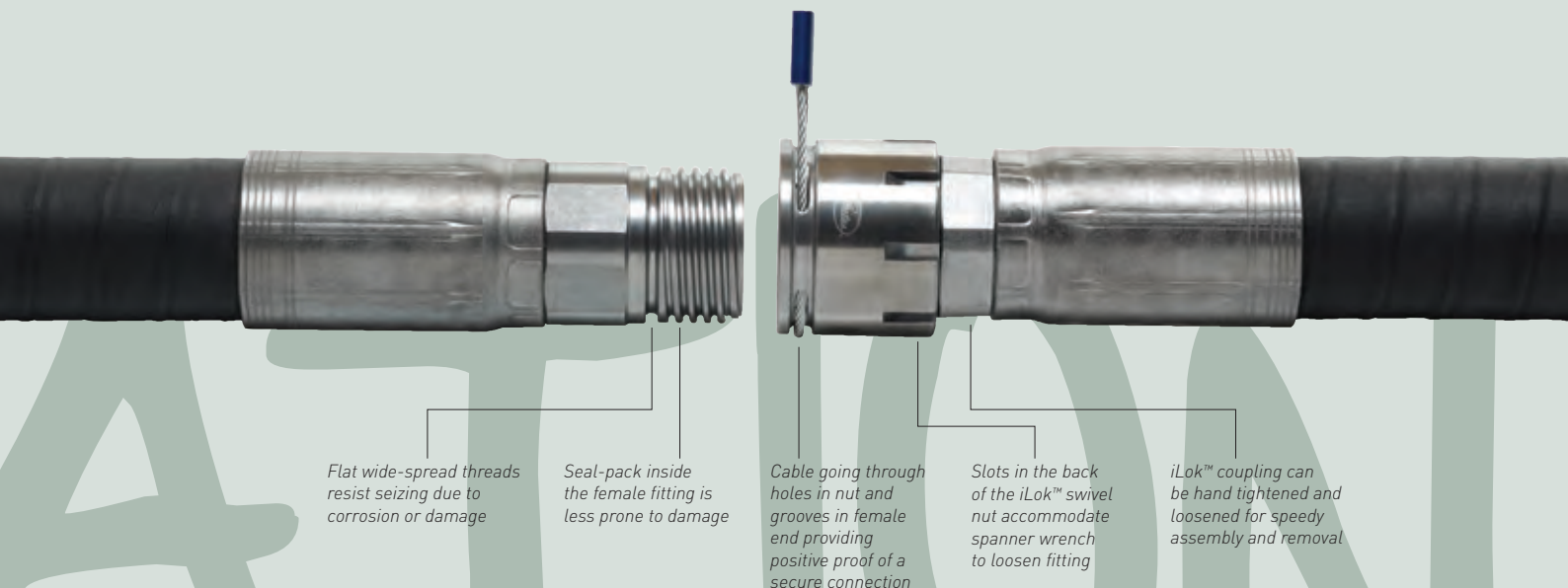
INNOVATION

## *A new coupling making longwall connections easier, faster and safer*



### **Boosted durability with Gates TuffCoat™ Xtreme® plating**

To further improve the lifetime of iLok™ couplings and adaptors in the highly corrosive mining environment, they are plated with Gates TuffCoat™ Xtreme®. This coating goes way beyond ISO 9227 standard requirements, offering 840 hours of red rust protection. Exactly what you need in extremely dusty and damp underground mining conditions.



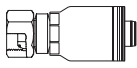
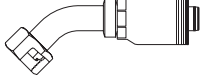
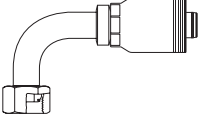
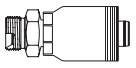
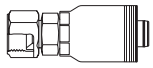
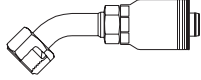
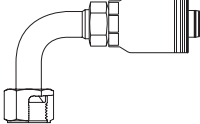
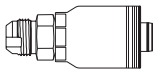
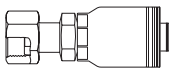
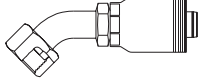
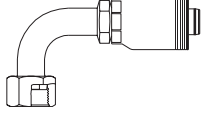

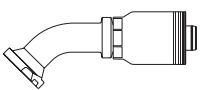
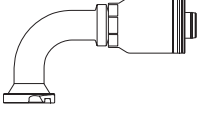
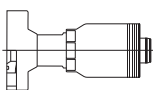
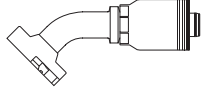
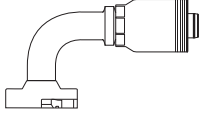
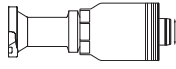
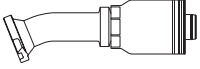
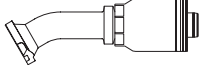
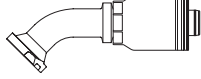
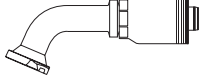
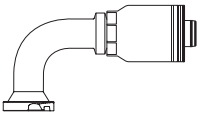
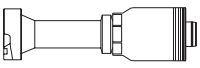
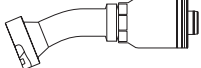
# COUPLING SELECTION TABLE

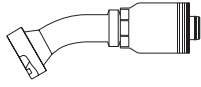
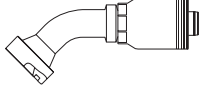
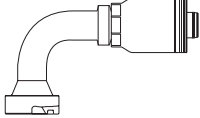
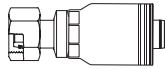
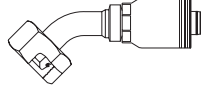
THE WORLD OF COUPLINGS

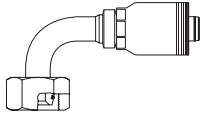
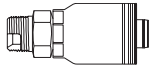
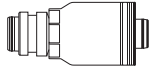
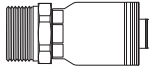
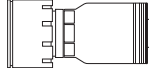
## COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSE

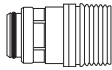
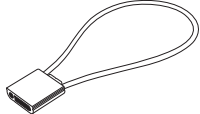
### GlobalSpiral Maximum

EFG6K (-24:-32), EFG5K (-24:-32) , EFG5KL (-24)

BSP				JIC
				
<b>BSP FBSPORX</b> p. 178	<b>BSP FBSPORX45</b> p. 178	<b>BSP FBSPORX90</b> p. 178	<b>BSP MBSPP</b> p. 179	<b>JIC 37° FJX</b> p. 179
JIC			SAE	
				
<b>JIC 37° FJX45</b> p. 179	<b>JIC 37° FJX90</b> p. 180	<b>JIC 37° MJ</b> p. 180	<b>SAE FFORX</b> p. 180	<b>SAE FFORX45</b> p. 181
SAE				
				
<b>SAE FFORX90</b> p. 181	<b>SAE FL</b> p. 181	<b>SAE FL45</b> p. 182	<b>SAE FL90</b> p. 182	<b>SAE FLHCFM</b> p. 182
SAE				
				
<b>SAE FLHCFM45</b> p. 183	<b>SAE FLHCFM90</b> p. 183	<b>SAE FLH</b> p. 183	<b>SAE FLH22</b> p. 184	<b>SAE FLH30</b> p. 184
SAE			CATERPILLAR	
				
<b>SAE FLH45</b> p. 184	<b>SAE FLH60</b> p. 185	<b>SAE FLH90</b> p. 185	<b>FLC</b> p. 186	<b>FLC22</b> p. 186

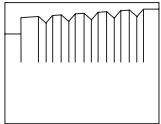
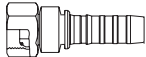
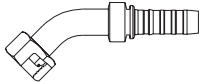
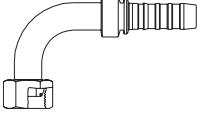
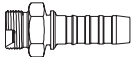
CATERPILLAR			DIN	
				
<b>FLC30</b> p. 187	<b>FLC45</b> p. 187	<b>FLC90</b> p. 188	<b>DIN 24° FDHORX</b> p. 188	<b>DIN 24° FDHORX45</b> p. 188

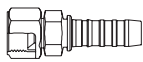
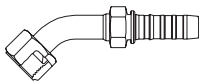
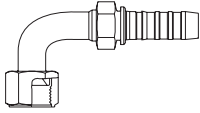
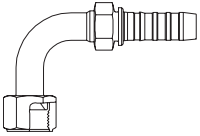
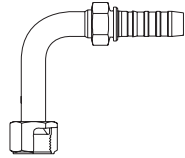
DIN	NPTF	PRESS-LOK SUPER	iLOK™	
				
<b>DIN 24° FDHORX90</b> p. 189	<b>NPTF MP</b> p. 189	<b>PLSOR</b> p. 190	<b>iLOK™ FILOR</b> p. 190	<b>iLOK™ MILX</b> p. 190

iLOK™	
	
<b>PLSOR to iLOK™</b> p. 191	<b>iCL</b> p. 191

## GlobalSpiral

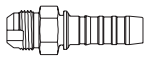
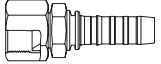
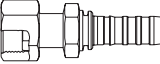
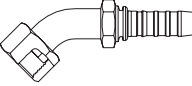
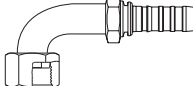
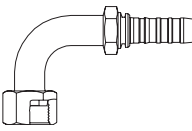
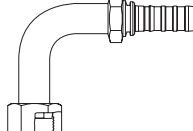

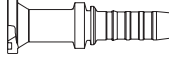

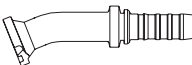




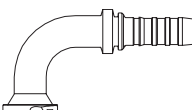
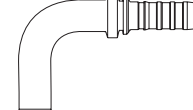



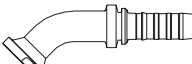
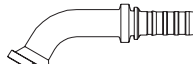



EFG6K (-06:-20), EFG5K (-06:-20), EFG4K, EFG3K (-20:-32), EFG6KL, EFG5KL (-06 -20), EFG4KL, HD-UHP

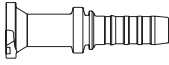

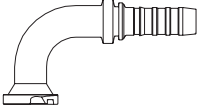
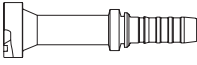
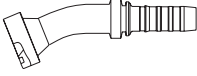
FERRULES	BSP			
				
<b>NO-SKIVE FERRULES</b> p. 192	<b>BSP FBSPORX</b> p. 193	<b>BSP FBSPORX45</b> p. 193	<b>BSP FBSPORX90</b> p. 194	<b>BSP MBSPP</b> p. 194

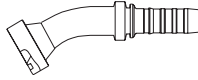
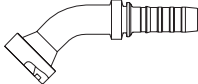

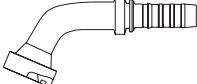
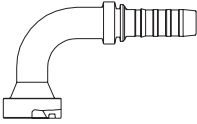
JIC				
				
<b>JIC 37° FJX</b> p. 195	<b>JIC 37° FJX45</b> p. 196	<b>JIC 37° FJX90S</b> p. 196	<b>JIC 37° FJX90M</b> p. 197	<b>JIC 37° FJX90L</b> p. 197

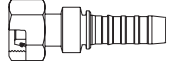

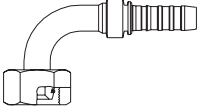
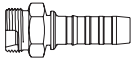
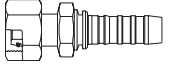
# COUPLING SELECTION TABLE

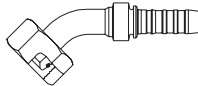
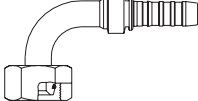

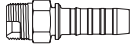

THE WORLD OF COUPLINGS

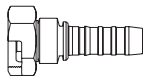
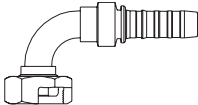
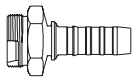
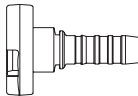
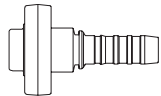
JIC		JIS		SAE		
						
<b>JIC 37° MJ</b> p. 198	<b>JIS FKX</b> p. 198	<b>SAE FFORX</b> p. 199	<b>SAE FFORX45</b> p. 200	<b>SAE FFORX90S</b> p. 200		
SAE						
						
<b>SAE FFORX90M</b> p. 201	<b>SAE FFORX90L</b> p. 201	<b>SAE MFFOR</b> p. 202	<b>SAE FL</b> p. 202	<b>SAE FL22</b> p. 203		
SAE						
						
<b>SAE FL30</b> p. 203	<b>SAE FL45</b> p. 204	<b>SAE FL60</b> p. 204	<b>SAE FL67</b> p. 205	<b>SAE FL90S</b> p. 205		
SAE						
						
<b>SAE FL90M</b> p. 206	<b>SAE FL90L</b> p. 207	<b>SAE FLH</b> p. 207	<b>SAE FLH22</b> p. 208	<b>SAE FLH30</b> p. 208		
SAE						
						
<b>SAE FLH45</b> p. 209	<b>SAE FLH60</b> p. 209	<b>SAE FLH90S</b> p. 210	<b>SAE FLH90M</b> p. 210	<b>SAE FLH90L</b> p. 211		

KOMATSU			CATERPILLAR	
				
<b>FLK</b> p. 211	<b>FLK45</b> p. 211	<b>FLK90</b> p. 212	<b>FLC</b> p. 212	<b>FLC22</b> p. 213

CATERPILLAR				
				
<b>FLC30</b> p. 213	<b>FLC45</b> p. 214	<b>FLC60</b> p. 214	<b>FLC67</b> p. 215	<b>FLC90</b> p. 215

DIN				
				
<b>DIN 24° FDLORX</b> p. 216	<b>DIN 24° FDLORX45</b> p. 216	<b>DIN 24° FDLORX90</b> p. 217	<b>DIN 24° MDL</b> p. 217	<b>DIN 24° FDHORX</b> p. 218

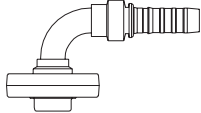
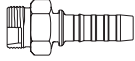

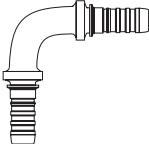
DIN			NPTF	UNF
				
<b>DIN 24° FDHORX45</b> p. 218	<b>DIN 24° FDHORX90</b> p. 219	<b>DIN 24° MDH</b> p. 219	<b>NPTF MP</b> p. 220	<b>UNF MB</b> p. 220

FRENCH GAZ				
				
<b>FG FFGX</b> p. 221	<b>FG FFGX90</b> p. 221	<b>FG MFG</b> p. 221	<b>FG FPFL</b> p. 222	<b>FG MPFL</b> p. 222



# COUPLING SELECTION TABLE

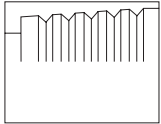
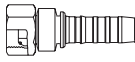
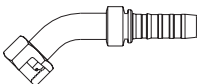
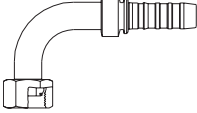
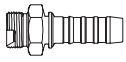
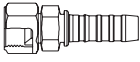
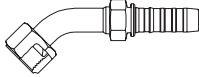
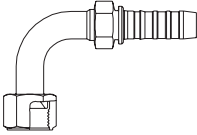
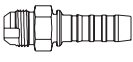
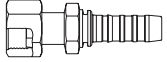
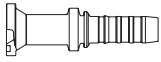

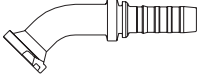
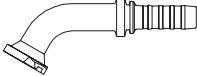
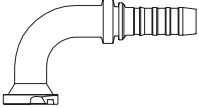
THE WORLD OF COUPLINGS

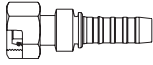
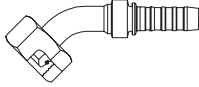
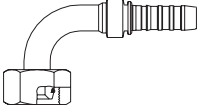
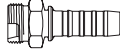
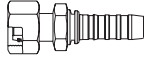
FRENCH GAZ	KOBELCO	HOSE LENGTH EXTENDER	
			
<b>FG MPFL90</b> p. 223	<b>KOBELCO MKB</b> p. 223	<b>HLE</b> p. 224	<b>HLE90</b> p. 224

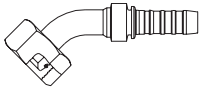
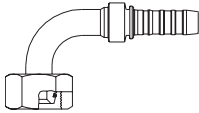
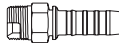
## COUPLINGS FOR WIRE & TEXTILE BRAID HOSE

### GlobalSpiral Plus

M2T [-24:-32], G2 [-24:-32], G1 [-24:-32], GMV [-24:-32], G2XH [-24:-32], G2H [-24:-32], G2L [-24:-32], G1H [-24:-32], MegaTech [-24:-32], Oil Master Lite SD [-24], GP80 Plus [-24:-32], GP40 [-24]

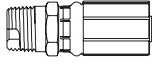
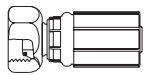
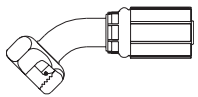
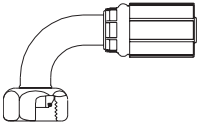
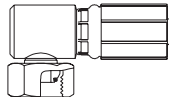
FERRULES	BSP			
				
<b>NO-SKIVE FERRULES</b> p. 228	<b>BSP FBSPORX</b> p. 228	<b>BSP FBSPORX45</b> p. 228	<b>BSP FBSPORX90</b> p. 229	<b>BSP MBSPP</b> p. 229
JIC				SAE
				
<b>JIC 37° FJX</b> p. 229	<b>JIC 37° FJX45</b> p. 230	<b>JIC 37° FJX90</b> p. 230	<b>JIC 37° MJ</b> p. 230	<b>SAE FFORX</b> p. 231
SAE				
				
<b>SAE FL</b> p. 231	<b>SAE FL30</b> p. 231	<b>SAE FL45</b> p. 232	<b>SAE FL60</b> p. 232	<b>SAE FL90</b> p. 232

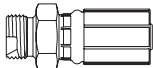
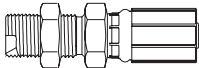
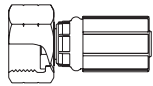
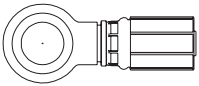
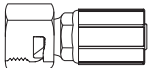
DIN				
				
<b>DIN 24° FDLORX</b> p. 233	<b>DIN 24° FDLORX45</b> p. 233	<b>DIN 24° FDLORX90</b> p. 233	<b>DIN 24° MDL</b> p. 234	<b>DIN 24° FDHORX</b> p. 234

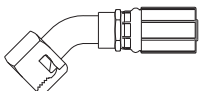
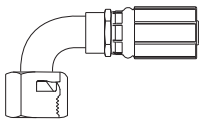
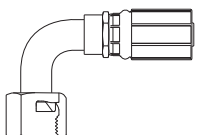
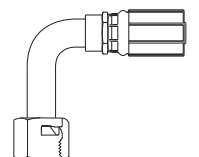
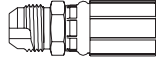
DIN		NPTF
		
<b>DIN 24° FDHORX45</b> p. 234	<b>DIN 24° FDHORX90</b> p. 235	<b>NPTF MP</b> p. 235

### MegaCrimp®

M6K, M5K, M4K, M3K, CM2T, CM2TDL-XTF, G2 (-04:-16), G1 (-04:-20), TH8, TH7, TH7DL, G3H (-04:-10), GTH, GMV (-04:-20), M4KH, M4KL, M3KH, G2XH (-04:-20), G2H (-20), G2L (-04:-20), G1H (-04:-20), MegaTech (-04:-20), 2JC, 1JC, PowerClean, Oil Master Lite SD (-12:-20), GP80 Plus (-04:-20), GP60, GP40 (-04:-20)

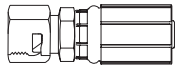
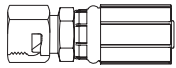
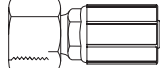
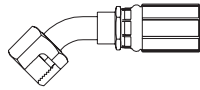
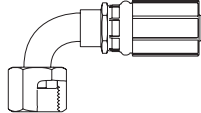
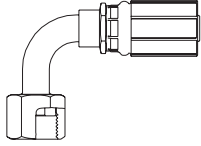
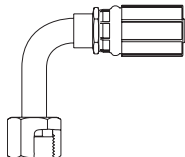
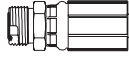
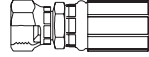
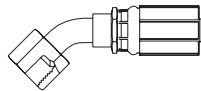
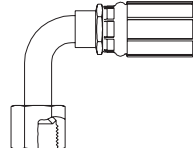
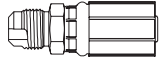
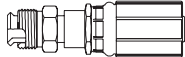
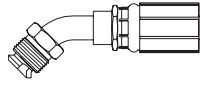
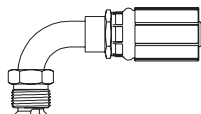
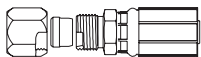
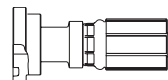
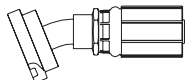
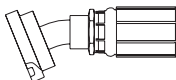
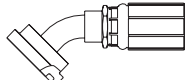
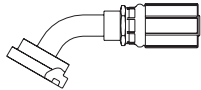
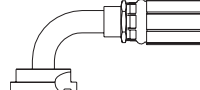
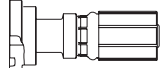
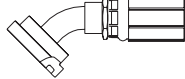
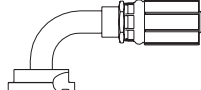
BSP				
				
<b>BSP MBSPT</b> p. 236	<b>BSP FBSPORX</b> p. 237	<b>BSP FBSPORX45</b> p. 238	<b>BSP FBSPORX90</b> p. 239	<b>BSP FBSPORX90BL</b> p. 240

BSP				JIC
				
<b>BSP MBSPP</b> p. 241	<b>BSP MBSPPBKHD</b> p. 241	<b>BSP FBFFX</b> p. 242	<b>BSP BSPBJ</b> p. 242	<b>JIC 37° FJX</b> p. 243

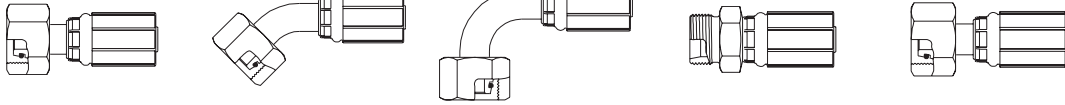
JIC				
				
<b>JIC 37° FJX45</b> p. 244	<b>JIC 37° FJX90S</b> p. 245	<b>JIC 37° FJX90M</b> p. 246	<b>JIC 37° FJX90L</b> p. 247	<b>JIC 37° MJ</b> p. 248

# COUPLING SELECTION TABLE

THE WORLD OF COUPLINGS

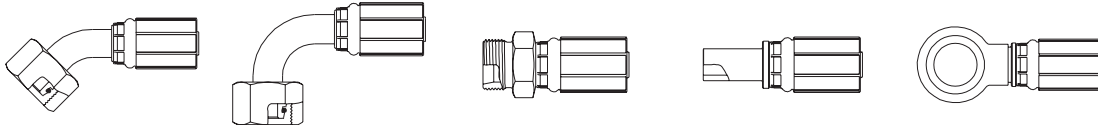
JIS		SAE		
				
<b>JIS FJISX</b> p. 249	<b>JIS FKX</b> p. 249	<b>SAE FFORX</b> p. 250	<b>SAE FFORX45</b> p. 251	<b>SAE FFORX90S</b> p. 252
SAE				
				
<b>SAE FFORX90M</b> p. 253	<b>SAE FFORX90L</b> p. 254	<b>SAE MFFOR</b> p. 255	<b>SAE 45° FSX</b> p. 255	<b>SAE 45° FSX45</b> p. 256
SAE				
				
<b>SAE 45° FSX90</b> p. 256	<b>SAE 45° MS</b> p. 257	<b>SAE 45° MIX</b> p. 257	<b>SAE 45° MIX45</b> p. 258	<b>SAE 45° MIX90</b> p. 258
SAE				
				
<b>SAE 24° MFA</b> p. 259	<b>SAE FL</b> p. 259	<b>SAE FL22</b> p. 260	<b>SAE FL30</b> p. 260	<b>SAE FL45</b> p. 261
SAE		KOMATSU		
				
<b>SAE FL60</b> p. 261	<b>SAE FL90</b> p. 262	<b>FLK</b> p. 263	<b>FLK45</b> p. 263	<b>FLK90</b> p. 263

**DIN**



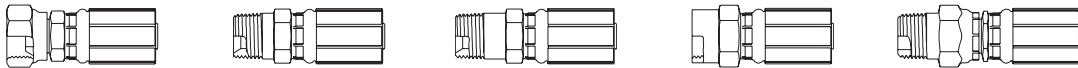
<b>DIN 24° FDLORX</b> p. 264	<b>DIN 24° FDLORX45</b> p. 265	<b>DIN 24° FDLORX90</b> p. 266	<b>DIN 24° MDL</b> p. 267	<b>DIN 24° FDHORX</b> p. 268
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**DIN**



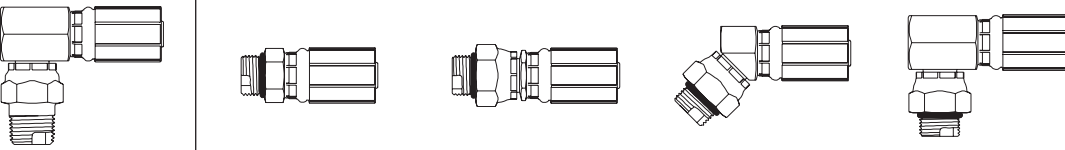
<b>DIN 24° FDHORX45</b> p. 269	<b>DIN 24° FDHORX90</b> p. 270	<b>DIN 24° MDH</b> p. 271	<b>METRIC MSP</b> p. 271	<b>METRIC DBJ</b> p. 272
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**NPTF**



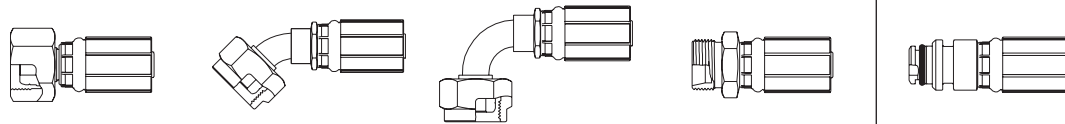
<b>NPTF FPX</b> p. 273	<b>NPTF MP</b> p. 273	<b>NPTF MPLN</b> p. 274	<b>NPTF FP</b> p. 274	<b>NPTF MPX</b> p. 275
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**NPTF**      **UNF**



<b>NPTF MPX90</b> p. 275	<b>UNF MB</b> p. 276	<b>UNF MBX</b> p. 276	<b>UNF MBX45</b> p. 277	<b>UNF MBX90</b> p. 277
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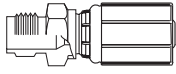
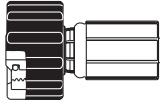
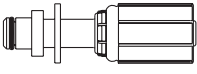
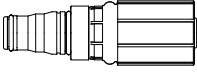
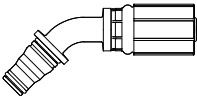
**FRENCH GAZ**      **PRESS-LOK**

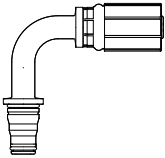
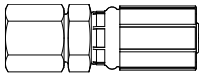


<b>FG FFGX</b> p. 278	<b>FG FFGX45</b> p. 278	<b>FG FFGX90</b> p. 279	<b>FG MFG</b> p. 279	<b>PL</b> p. 280
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## COUPLING SELECTION TABLE

THE WORLD OF COUPLINGS

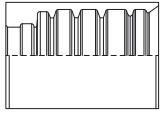
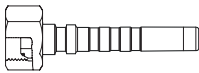
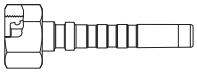

AGRICULTURAL VALVE	POWERWASH		QUICK-LOK HIGH	
				
<b>AV</b> p. 280	<b>POWERWASH FPWX</b> p. 281	<b>POWERWASH PWSP</b> p. 281	<b>MQLH</b> p. 282	<b>MQLH45</b> p. 282

QUICK-LOK HIGH	
	
<b>MQLH90</b> p. 283	<b>FQLH</b> p. 283

## COUPLINGS FOR WIRE SPIRAL BLASTING HOSE

### WTB

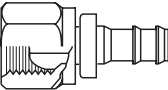
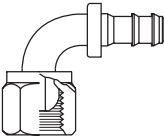
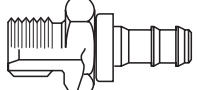
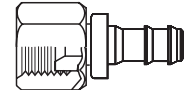
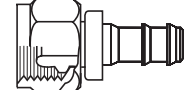
WaterBlast

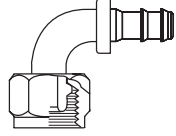
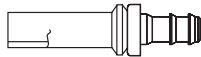
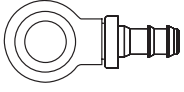
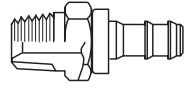
FERRULES	BSP	DIN	NPTF
			
<b>SKIVE FERRULES</b> p. 286	<b>BSP FBSPORX</b> p. 286	<b>DIN 24° FDHORX</b> p. 287	<b>NPTF MP</b> p. 287

## COUPLINGS FOR PUSH-ON TEXTILE HOSE

### LOCK-ON

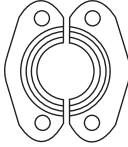
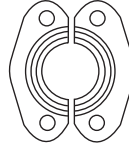
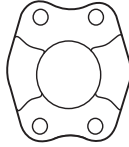
Lock-on Plus

BSP		JIC	DIN	
				
<b>BSP FBSPPX</b> p. 290	<b>BSP FBSPPX90</b> p. 290	<b>BSP MBSPP</b> p. 291	<b>JIC 37° FJX</b> p. 291	<b>DIN 24° / 60° FDLX</b> p. 292







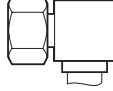
DIN			NPTF
			
<b>DIN 24° / 60° FDLX90</b> p. 292	<b>METRIC MSP</b> p. 293	<b>METRIC DBJ</b> p. 293	<b>NPTF MP</b> p. 293

## ACCESSORIES


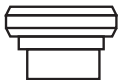


### FLANGES

SAE		
		
<b>SAE PA-FL flange kit</b> p. 296	<b>SAE PH-FLH flange kit</b> p. 296	<b>SAE PH-FLH Monobloc kit</b> p. 297

## EXPLANATION OF COUPLING NOMENCLATURE

4	G	6	F	BSP	OR	X	45	BL
								
Hose inside diameter in 1/16 inches	GATES GLOBAL REFERENCE MegaCrimp® Coupling	Thread size	Male / female	Type (e.g. BSP)	Soft seal "O" ring	Swivel	Degree of bend (e.g. 45° or 90°)	Compact 90° block
			Termination type					

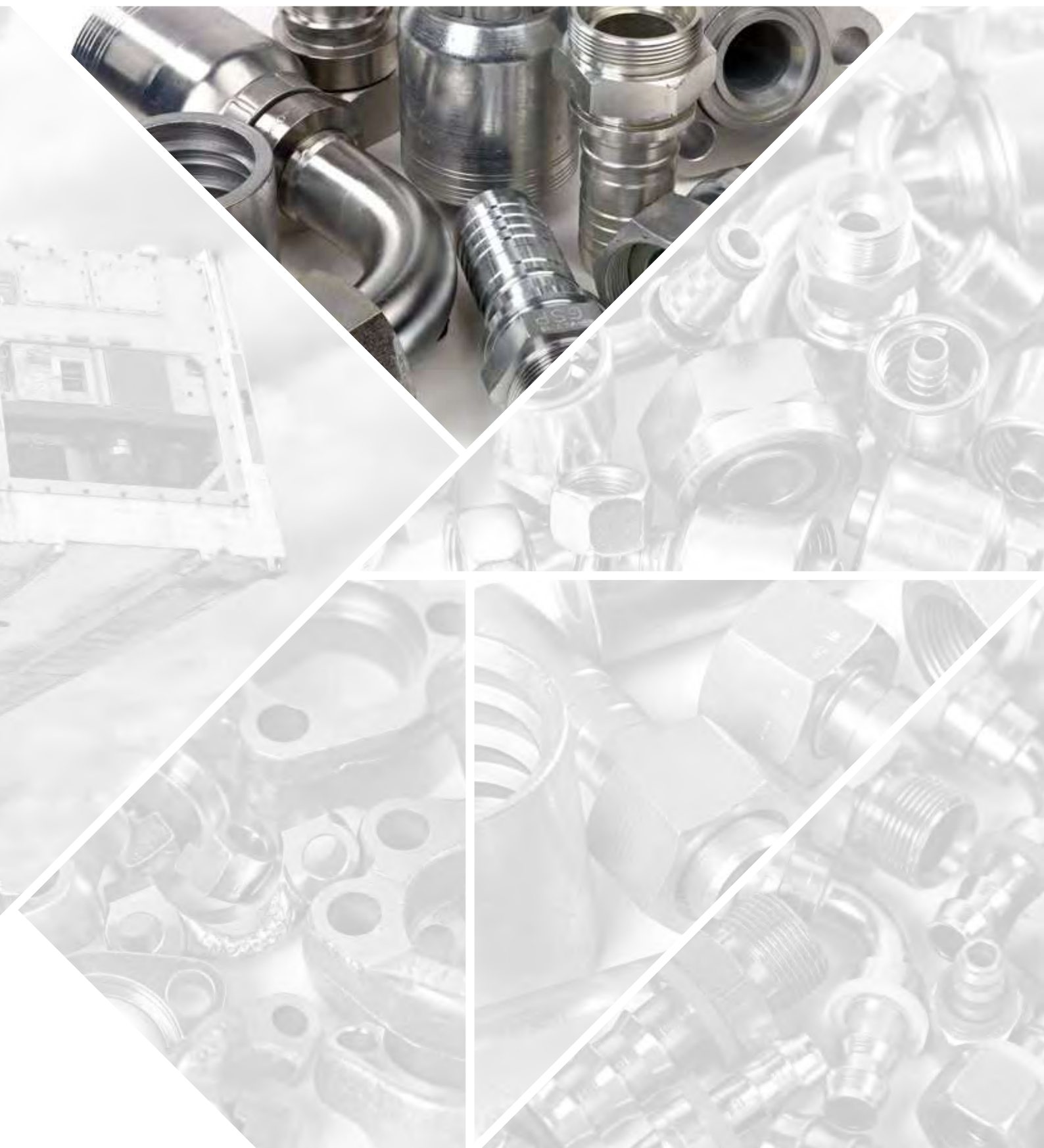
## EXPLANATION OF SYMBOLS

Thread	SAE flange size	Banjo bolt size	Coupling
			

**THE WORLD OF COUPLINGS**  
INTEGRATED FLUID POWER SOLUTIONS



# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES



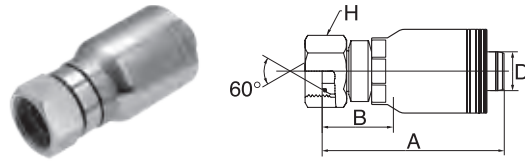


# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL MAXIMUM

THE WORLD OF COUPLINGS

## BSP FBSPORX

Female BSP 'O' ring swivel. 60° cone.

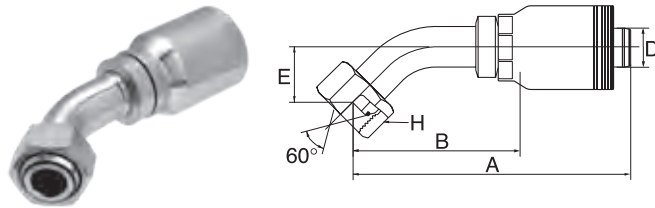


↔			🌀	↔	🌀		
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	GSM
-24	40	1.1/2	G 1.1/2" - 11 BSP	154.0	59.0	55.0	24GSM24FBSPORX
-32	50	2	G 2" - 11 BSP	184.0	70.0	70.0	32GSM32FBSPORX

-24 size is 35.0 MPa (5000 psi); -32 size is 28.0 MPa (4000 psi).

## BSP FBSPORX45

Female BSP 'O' ring swivel. 60° cone.  
45° swept elbow.

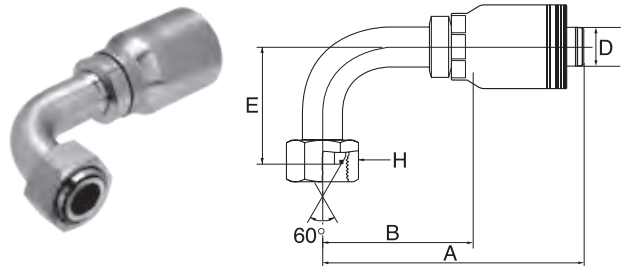


↔			🌀	↔	🌀			
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	GSM
-24	40	1.1/2	G 1.1/2" - 11 BSP	242.5	147.5	49.7	55.0	24GSM24FBSPORX45
-32	50	2	G 2" - 11 BSP	307.6	193.6	75.0	70.0	32GSM32FBSPORX45

-24 size is 35.0 MPa (5000 psi); -32 size is 28.0 MPa (4000 psi).

## BSP FBSPORX90

Female BSP 'O' ring swivel. 60° cone.  
90° swept elbow.



↔			🌀	↔	🌀			
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	GSM
-24	40	1.1/2	G 1.1/2" - 11 BSP	222.6	127.6	100.0	55.0	24GSM24FBSPORX90
-32	50	2	G 2" - 11 BSP	276.5	162.5	150.0	70.0	32GSM32FBSPORX90

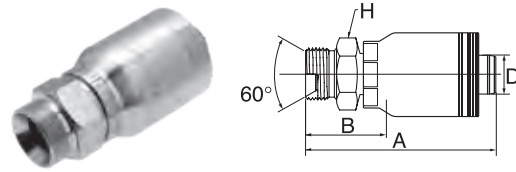
-24 size is 35.0 MPa (5000 psi); -32 size is 28.0 MPa (4000 psi).

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL MAXIMUM

## BSP MBSPP

Male BSP parallel. 60° inverted cone.

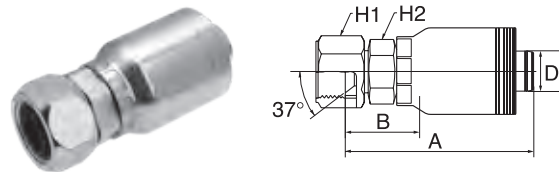


↔			🌀	↔	🌀		
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	GSM
-24	40	1.1/2	G 1.1/2" - 11 BSP	163.0	68.0	55.0	24GSM24MBSPP
-32	50	2	G 2" - 11 BSP	188.0	74.0	70.0	32GSM32MBSPP

-24 size is 35.0 MPa (5000 psi); -32 size is 28.0 MPa (4000 psi).

## JIC 37° FJX

Female JIC swivel. 37° inverted cone.

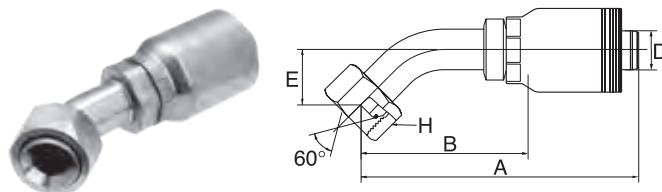


↔			🌀	↔	🌀			
D				A	B	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	GSM
-24	40	1.1/2	1.7/8" - 12 UN	152.9	57.9	60.0	55.0	24GSM24FJX
-32	50	2	2.1/2" - 12 UN	180.5	66.5	75.0	70.0	32GSM32FJX

-24 to -32 size are 35.0 MPa (5000 psi).

## JIC 37° FJX45

Female JIC swivel. 37° inverted cone.  
45° swept elbow.



↔			🌀	↔	🌀				
D				A	B	E	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	mm	GSM
-24	40	1.1/2	1.7/8" - 12 UN	226.1	130.9	34.0	60.0	55.0	24GSM24FJX45-034

-24 size is 35.0 MPa (5000 psi).

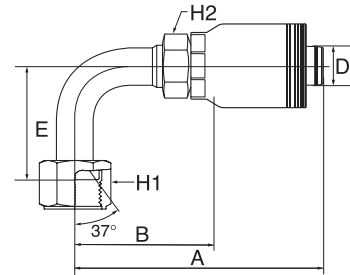
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL MAXIMUM

THE WORLD OF COUPLINGS

## JIC 37° FJX90

Female JIC swivel. 37° inverted cone.  
90° swept elbow.

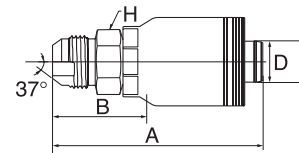


D				A	B	E	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	mm	GSM
-24	40	1.1/2	1.7/8" - 12 UN	227.5	132.3	86.0	60.0	55.0	24GSM24FJX90M

-24 size is 35.0 MPa (5000 psi). / M: Medium drop per ISO 12151-5.

## JIC 37° MJ

Male JIC parallel. 37° cone.

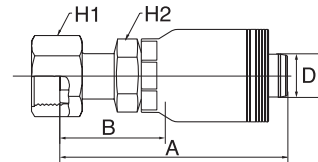


D				A	B	H	REF.
-size	DN	"		mm	mm	mm	GSM
-24	40	1.1/2	1.7/8" - 12 UN	162.3	67.3	50.0	24GSM24MJ
-32	50	2	2.1/2" - 12 UN	196.2	82.2	65.0	32GSM32MJ

-24 to -32 size are 35.0 MPa (5000 psi).

## SAE FFORX

Female SAE flat face 'O' ring swivel.



D				A	B	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	GSM
-24	40	1.1/2	2" - 12 UN	164.4	69.4	60.0	55.0	24GSM24FFORX

-24 size is 28.0 MPa (4000 psi).

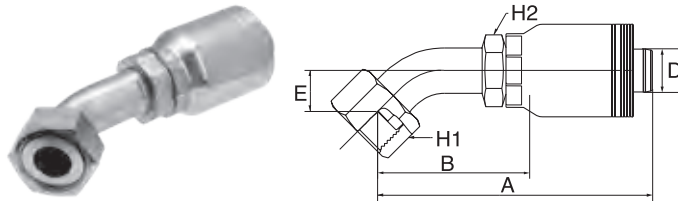
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES

## GLOBALSPIRAL MAXIMUM

### SAE FFORX45

Female SAE flat face 'O' ring swivel.  
45° swept elbow.

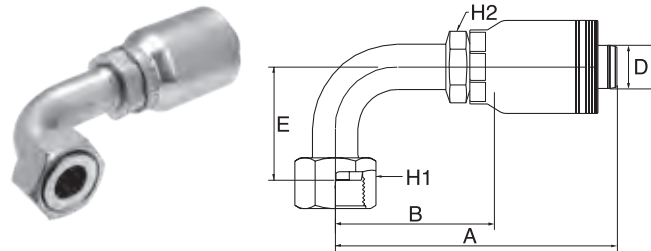


↻			🌀	↔					🔌
D				A	B	E	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	mm	GSM
-24	40	1.1/2	2" - 12 UN	236.6	141.4	38.0	60.0	55.0	24GSM24FFORX45-038

-24 size is 28.0 MPa (4000 psi).

### SAE FFORX90

Female SAE flat face 'O' ring swivel.  
90° swept elbow.

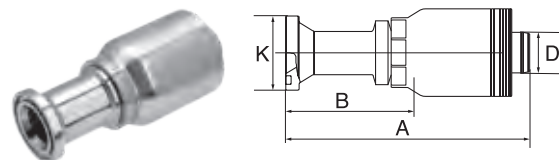


↻			🌀	↔					🔌
D				A	B	E	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	mm	GSM
-24	40	1.1/2	2" - 12 UN	227.4	132.3	86.0	60.0	55.0	24GSM24FFORX90M

-24 size is 28.0 MPa (4000 psi). / M: Medium drop per ISO 12151-1.

### SAE FL

SAE 'O' ring flange. Code 61.



↻			🔌	↔				🔌
D				A	B	K	KIT	REF.
-size	DN	"		mm	mm	mm		GSM
-24	40	1.1/2	1.1/2"	180.0	85.0	60.3	24 PA-FL	24GSM24FL
-32	50	2	2"	251.4	137.4	71.4	32 PA-FL	32GSM32FL

Details on flange kits see page 292.

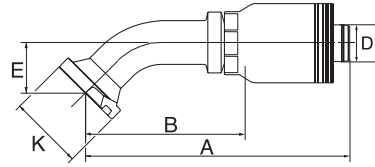
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL MAXIMUM

THE WORLD OF COUPLINGS

## SAE FL45

SAE 'O' ring flange. Code 61.  
45° swept elbow.

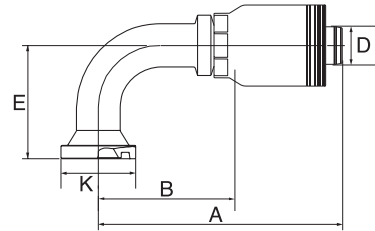


D			A B E K				KIT	REF.	
-size	DN	"	mm	mm	mm	mm	GSM		
-24	40	1.1/2	1.1/2"	230.0	135.0	44.0	60.3	24 PA-FL	24GSM24FL45M
-32	50	2	2"	288.0	173.6	56.0	71.4	32 PA-FL	32GSM32FL45M

Details on flange kits see page 292. / M: Medium drop per ISO 12151-3.

## SAE FL90

SAE 'O' ring flange. Code 61.  
90° swept elbow.

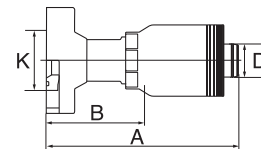


D			A B E K				KIT	REF.	
-size	DN	"	mm	mm	mm	mm	GSM		
-24	40	1.1/2	1.1/2"	214.9	119.9	81.0	60.3	32 PA-FL	24GSM24FL90S
-32	50	2	2"	265.0	150.5	130.0	71.4	32 PA-FL	32GSM32FL90-130

Details on flange kits see page 292. / S: Short drop per ISO 12151-3.

## SAE FLHCFM

SAE 'O' ring flange with pre-installed monobloc.  
Code 62.



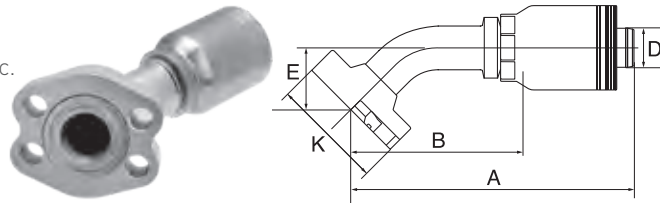
D			A B K			REF.	
-size	DN	"	mm	mm	mm	GSM	
-24	40	1.1/2	1.1/2"	200.0	105.0	63.5	24GSM24FLHCFM
-32	50	2	2"	251.4	137.4	79.5	32GSM32FLHCFM

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL MAXIMUM

## SAE FLHCFM45

SAE 'O' ring flange with pre-installed monobloc.  
Code 62. 45° swept elbow.

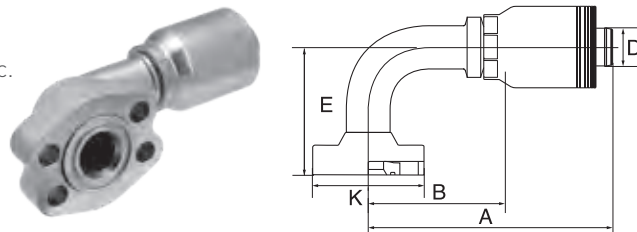


D				A B E K				REF.
-size	DN	"		mm	mm	mm	mm	GSM
-24	40	1.1/2	1.1/2"	232.0	137.0	44.0	63.5	24GSM24FLHCFM45M
-32	50	2	2"	297.0	182.5	63.0	79.5	32GSM32FLHCFM45-063

M: Medium drop per ISO 12151-3.

## SAE FLHCFM90

SAE 'O' ring flange with pre-installed monobloc.  
Code 62. 90° swept elbow.

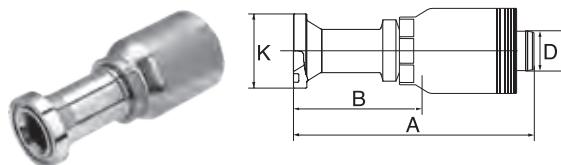


D				A B E K				REF.
-size	DN	"		mm	mm	mm	mm	GSM
-24	40	1.1/2	1.1/2"	214.0	119.0	94.0	63.5	24GSM24FLHCFM90-094
-32	50	2	2"	264.0	150.0	120.0	79.5	32GSM32FLHCFM90S

S: Short drop per ISO 12151-3.

## SAE FLH

SAE 'O' ring flange high-pressure. Code 62.



D				A B K			KIT	REF.
-size	DN	"		mm	mm	mm		GSM
-24	40	1.1/2	1.1/2"	200.0	105.0	63.5	24 PH-FLH	24GSM24FLH
-24	40	1.1/2	2"	200.0	105.0	79.5	32 PH-FLH	24GSM32FLH
-32	50	2	1.1/2"	230.0	116.0	63.5	24 PH-FLH	32GSM24FLH
-32	50	2	2"	251.4	137.4	79.5	32 PH-FLH	32GSM32FLH

Details on flange kits see page 292.

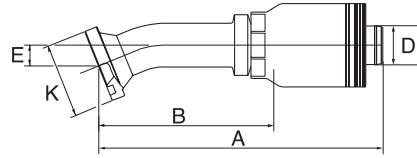
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL MAXIMUM

THE WORLD OF COUPLINGS

## SAE FLH22

SAE 'O' ring flange high-pressure.  
Code 62. 22° swept elbow.

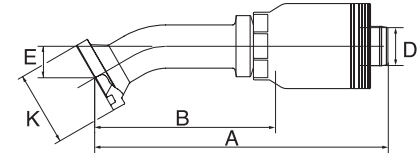


D				A B E K				KIT	REF.
-size	DN	"	1.1/2"	mm	mm	mm	mm		GSM
-24	40	1.1/2	1.1/2"	243.0	148.4	18.0	63.5	24 PH-FLH	24GSM24FLH22M

Details on flange kits see page 292. / M: Medium drop per ISO 12151-3.

## SAE FLH30

SAE 'O' ring flange high-pressure.  
Code 62. 30° swept elbow.

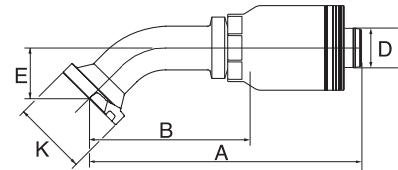


D				A B E K				KIT	REF.
-size	DN	"	1.1/2"	mm	mm	mm	mm		GSM
-24	40	1.1/2	1.1/2"	240.0	144.8	30.0	63.5	24 PH-FLH	24GSM24FLH30M

Details on flange kits see page 292. / M: Medium drop per ISO 12151-3.

## SAE FLH45

SAE 'O' ring flange high-pressure.  
Code 62. 45° swept elbow.



D				A B E K				KIT	REF.
-size	DN	"	1.1/2"	mm	mm	mm	mm		GSM
-24	40	1.1/2	1.1/2"	232.0	137.0	44.0	63.5	24 PH-FLH	24GSM24FLH45M
-24	40	1.1/2	2"	241.0	146.0	56.0	79.5	32 PH-FLH	24GSM32FLH45M
-32	50	2	2"	297.0	182.5	63.0	79.5	32 PH-FLH	32GSM32FLH45-063

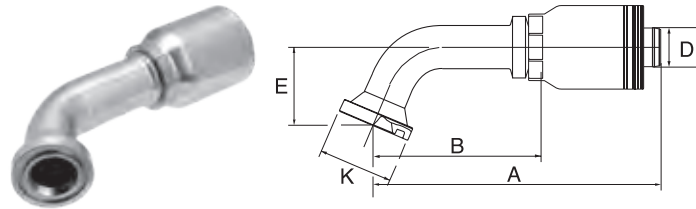
Details on flange kits see page 292. / M: Medium drop per ISO 12151-3.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL MAXIMUM

## SAE FLH60

SAE 'O' ring flange high-pressure.  
Code 62. 60° swept elbow.

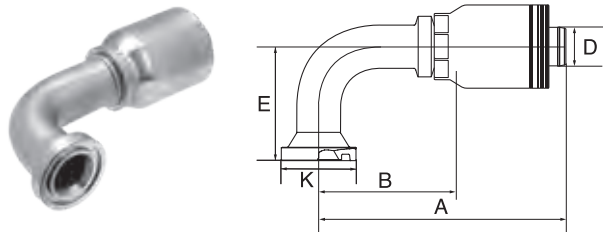


↻			⌋	↔					⌋
D				A	B	E	K	KIT	REF.
-size	DN	"		mm	mm	mm	mm		GSM
-24	40	1.1/2	1.1/2"	253.0	158.2	64.0	63.5	24 PH-FLH	24GSM24FLH60M

Details on flange kits see page 292. / M: Medium drop per ISO 12151-3.

## SAE FLH90

SAE 'O' ring flange high-pressure.  
Code 62. 90° swept elbow.



↻			⌋	↔					⌋
D				A	B	E	K	KIT	REF.
-size	DN	"		mm	mm	mm	mm		GSM
-24	40	1.1/2	1.1/2"	214.0	119.0	94.0	63.5	24 PH-FLH	24GSM24FLH90-094
-24	40	1.1/2	2"	214.0	118.9	120.0	79.5	32 PH-FLH	24GSM32FLH90S
-32	50	2	2"	264.0	150.0	138.0	79.5	32 PH-FLH	32GSM32FLH90M

Details on flange kits see page 292. / S: Short drop - M: Medium drop per ISO 12151-3.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

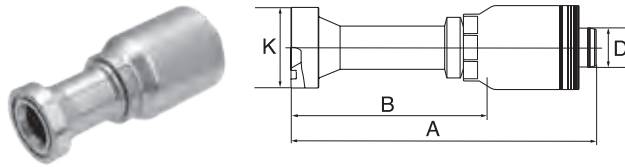


# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL MAXIMUM

THE WORLD OF COUPLINGS

## FLC

Caterpillar type 'O' ring flange.

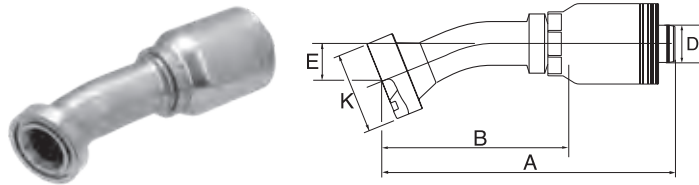


D				A B K			REF.
-size	DN	"		mm	mm	mm	GSM
-24	40	1.1/2	1.1/2"	189.0	94.3	63.5	24GSM24FLC
-24	40	1.1/2	2"	200.0	105.0	79.5	24GSM32FLC
-32	50	2	2"	227.7	113.7	79.5	32GSM32FLC

-24 size is 42.0 MPa (6000 psi). / Note: FLC flanges are designed with a thicker flange head. The 14.2 mm flange dimension is frequently found on Caterpillar equipment. This flange lets the user utilise the Caterpillar flange clamp halves where practical when he replaces the hose assembly. At the user's option, standard Code 62 flanges and flange clamp halves can be used in place of the Caterpillar flanges and flange clamp halves. The standard Code 62 flange head thickness is 12.7 mm.

## FLC22

Caterpillar type 'O' ring flange.  
22° swept elbow.



D				A B E K				REF.
-size	DN	"		mm	mm	mm	mm	GSM
-24	40	1.1/2	1.1/2"	236.0	141.5	17.0	63.5	24GSM24FLC22-017

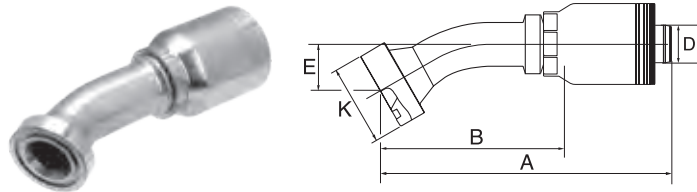
-24 size is 42.0 MPa (6000 psi). / Note: FLC flanges are designed with a thicker flange head. The 14.2 mm flange dimension is frequently found on Caterpillar equipment. This flange lets the user utilise the Caterpillar flange clamp halves where practical when he replaces the hose assembly. At the user's option, standard Code 62 flanges and flange clamp halves can be used in place of the Caterpillar flanges and flange clamp halves. The standard Code 62 flange head thickness is 12.7 mm.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL MAXIMUM

## FLC30

Caterpillar type 'O' ring flange.  
30° swept elbow.

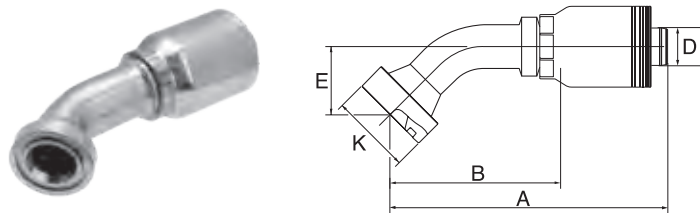


↻			⊕	↔	↻			⊕
D				A	B	E	K	REF.
-size	DN	"		mm	mm	mm	mm	GSM
-24	40	1.1/2	1.1/2"	235.0	139.5	23.0	63.5	24GSM24FLC30-023

-24 size is 42.0 MPa (6000 psi). / Note: FLC flanges are designed with a thicker flange head. The 14.2 mm flange dimension is frequently found on Caterpillar equipment. This flange lets the user utilise the Caterpillar flange clamp halves where practical when he replaces the hose assembly. At the user's option, standard Code 62 flanges and flange clamp halves can be used in place of the Caterpillar flanges and flange clamp halves. The standard Code 62 flange head thickness is 12.7 mm.

## FLC45

Caterpillar type 'O' ring flange.  
45° swept elbow.



↻			⊕	↔	↻			⊕
D				A	B	E	K	REF.
-size	DN	"		mm	mm	mm	mm	GSM
-24	40	1.1/2	1.1/2"	227.0	132.0	39.0	63.5	24GSM24FLC45-039
-32	50	2	2"	287.5	173.5	64.0	79.5	32GSM32FLC45-064

-24 size is 42.0 MPa (6000 psi). / Note: FLC flanges are designed with a thicker flange head. The 14.2 mm flange dimension is frequently found on Caterpillar equipment. This flange lets the user utilise the Caterpillar flange clamp halves where practical when he replaces the hose assembly. At the user's option, standard Code 62 flanges and flange clamp halves can be used in place of the Caterpillar flanges and flange clamp halves. The standard Code 62 flange head thickness is 12.7 mm.

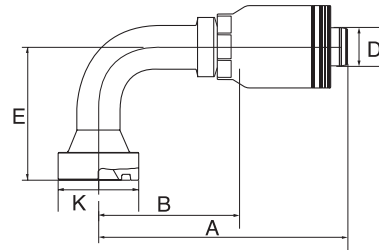
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL MAXIMUM

THE WORLD OF COUPLINGS

## FLC90

Caterpillar type 'O' ring flange.  
90° swept elbow.

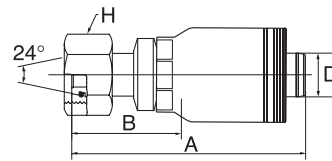


D				A B E K				REF.
-size	DN	"		mm	mm	mm	mm	GSM
-24	40	1.1/2	1.1/2"	214.1	119.1	87.0	63.5	24GSM24FLC90-087
-32	50	2	2"	264.5	150.5	130.0	79.5	32GSM32FLC90-130

-24 size is 42.0 MPa (6000 psi). / Note: FLC flanges are designed with a thicker flange head. The 14.2 mm flange dimension is frequently found on Caterpillar equipment. This flange lets the user utilise the Caterpillar flange clamp halves where practical when he replaces the hose assembly. At the user's option, standard Code 62 flanges and flange clamp halves can be used in place of the Caterpillar flanges and flange clamp halves. The standard Code 62 flange head thickness is 12.7 mm.

## DIN 24° FDHORX

Female DIN 'O' ring swivel. 24° cone.  
Heavy series.

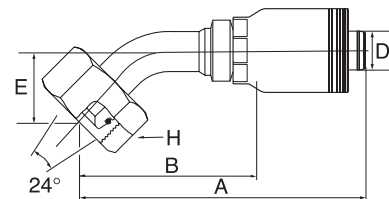


D				A B H			REF.
-size	DN	"		mm	mm	mm	GSM
-24	40	1.1/2	M52 x 2.0	180.0	85.0	60.0	24GSM38FDHORX

-24 size is 42.0 MPa (6000 psi).

## DIN 24° FDHORX45

Female DIN 'O' ring swivel. 24° cone.  
Heavy series. 45° swept elbow.



D				A B E H				REF.
-size	DN	"		mm	mm	mm	mm	GSM
-24	40	1.1/2	M52 x 2.0	236.9	141.9	44.0	60.0	24GSM38FDHORX45

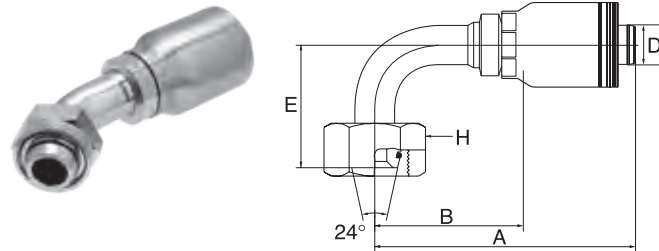
-24 size is 42.0 MPa (6000 psi).

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL MAXIMUM

## DIN 24° FDHORX90

Female DIN 'O' ring swivel. 24° cone.  
Heavy series. 90° swept elbow.

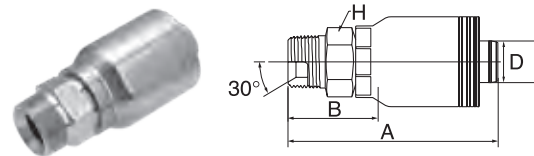


D				A B E			H	REF.
-size	DN	"	M52 x 2.0	mm	mm	mm	mm	GSM
-24	40	1.1/2	M52 x 2.0	222.6	127.6	92.0	60.0	24GSM38FDHORX90

-24 size is 42.0 MPa (6000 psi).

## NPTF MP

Male NPTF pipe.



D				A B H			REF.
-size	DN	"	1.1/2" - 11.5 NPTF	mm	mm	mm	GSM
-24	40	1.1/2	1.1/2" - 11.5 NPTF	165.3	70.3	50.8	24GSM24MP
-32	50	2	2" - 11.5 NPTF	191.6	77.6	69.9	32GSM32MP

-24 size is 24.5 MPa (3500 psi); -32 size is 17.5 MPa (2500 psi). / Warning: Use only in NPTF connections. Do not use in oil field (API) connections. Blow apart of an oil field connection can result in serious injuries.

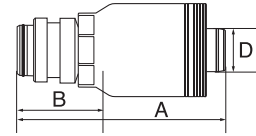
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL MAXIMUM

THE WORLD OF COUPLINGS

## PLSOR

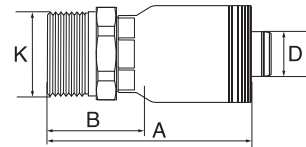
Male Press-Lok Super 'O' ring.



↔			↔		↔
-size	D		A	B	REF.
	DN	"	mm	mm	GSM
-24	40	1.1/2	181.1	86.1	24GSM24PLSOR
-32	50	2	204.8	90.8	32GSM32PLSOR

## iLOK™ FILOR

Female iLok™ 'O' ring.

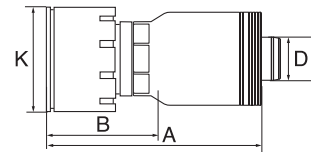


↔			iLOK™	↔			↔
-size	D			A	B	K	REF.
	DN	"		mm	mm	mm	GSM
-24	40	1.1/2	24FILOR	183.5	88.5	56.5	24GSM24FILOR
-32	50	2	32FILOR	215.0	101.0	70.5	32GSM32FILOR

Note: iLok™ has a dual pressure rating system depending on the application, -24 to -32 size are 42.0 MPa (6000 psi) for static load and 35.0 MPa (5000 psi) for dynamic load.

## iLOK™ MILX

Male iLok™ swivel.



↔			↔	↔			↔
-size	D			A	B	K	REF.
	DN	"		mm	mm	mm	GSM
-24	40	1.1/2	24MILX	203.5	108.5	69.6	24GSM24MILX
-32	50	2	32MILX	228.2	114.2	85.0	32GSM32MILX

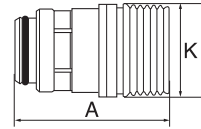
Note: iLok™ has a dual pressure rating system depending on the application, -24 to -32 size are 42.0 MPa (6000 psi) for static load and 35.0 MPa (5000 psi) for dynamic load.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL MAXIMUM

## PLSOR TO iLOK™

Male Press-Lok Super to Female iLok™.

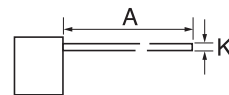


↔			↔		↔
D			A	K	REF.
-size	DN	"	mm	mm	GSM
-24	40	1.1/2	105.0	56.5	24FILOR-24MSH
-32	50	2	100.0	70.5	32FILOR-32MSH

Note: iLOK™ has a dual pressure rating system depending on the application, -24 to -32 size are 42.0 MPa (6000 psi) for static load and 35.0 MPa (5000 psi) for dynamic load.

## ICL

iLok™ Cable



↔			↔		↔
D			A	K	REF.
-size	DN	"	mm	mm	GSM
-24	40	1.1/2	350.0	3.5	ICL-24-32
-32	50	2	350.0	3.5	ICL-24-32

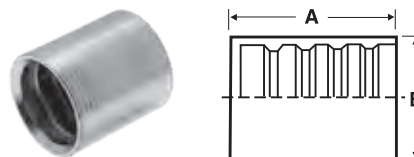
Note: iLOK™ has a dual pressure rating system depending on the application, -24 to -32 size are 42.0 MPa (6000 psi) for static load and 35.0 MPa (5000 psi) for dynamic load.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

THE WORLD OF COUPLINGS

## NO-SKIVE FERRULES



D			A	B	REF.
-size	DN	"	mm	mm	GS
-6	10	3/8	36.3	31.8	6GS1F-4
-8	12	1/2	36.6	34.4	8GS1F-4
-10	16	5/8	47.8	41.7	10GS1F-4
-12	20	3/4	50.8	45.7	12GS1F-4
-16	25	1	56.4	52.6	16GS1F-4
-20	32	1.1/4	67.8	61.5	20GS1F-4
-20	32	1.1/4	72.9	67.8	20GS1F-6
-24	40	1.1/2	76.5	72.0	24GSP1F-4
-32	50	2	91.0	85.0	32GSP1F-4

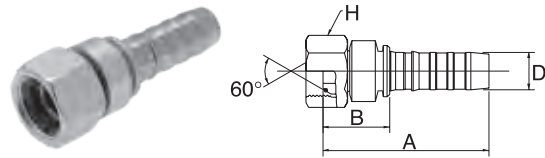
Note -24 & -32: Use GSP1F-4 only for 4-spiral wire hose. For 6-spiral wire hose use 1-piece GSM coupling.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

## BSP FBSPORX

Female BSP 'O' ring swivel. 60° cone.

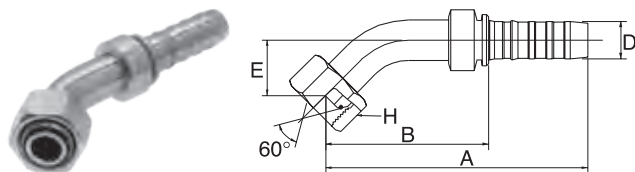


↻			🌀	↔	🔧		
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	GS
-6	10	3/8	G 3/8" - 19 BSP	60.5	24.7	22.0	6GS6FBSPORX
-6	10	3/8	G 1/2" - 14 BSP	60.2	24.4	27.0	6GS8FBSPORX
-8	12	1/2	G 1/2" - 14 BSP	61.0	23.5	27.0	8GS8FBSPORX
-8	12	1/2	G 5/8" - 14 BSP	62.0	24.5	30.0	8GS10FBSPORX
-10	16	5/8	G 5/8" - 14 BSP	80.5	30.2	30.0	10GS10FBSPORX
-10	16	5/8	G 3/4" - 14 BSP	82.3	32.0	32.0	10GS12FBSPORX
-12	20	3/4	G 3/4" - 14 BSP	86.5	35.5	32.0	12GS12FBSPORX
-12	20	3/4	G 1" - 11 BSP	86.6	35.6	41.0	12GS16FBSPORX
-16	25	1	G 1" - 11 BSP	95.0	38.6	41.0	16GS16FBSPORX
-16	25	1	G 1.1/4" - 11 BSP	83.0	26.2	50.0	16GS20FBSPORX
-20	32	1.1/4	G 1.1/4" - 11 BSP	116.5	45.4	50.0	20GS20FBSPORX
-24	40	1.1/2	G 1.1/2" - 11 BSP	125.0	51.3	55.0	24GSP24FBSPORX
-32	50	2	G 2" - 11 BSP	153.0	61.0	70.0	32GSP32FBSPORX

-6 to -20 size are 42.0 MPa (6000 psi).

## BSP FBSPORX45

Female BSP 'O' ring swivel. 60° cone.  
45° swept elbow.



↻			🌀	↔			🔧	
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	GS
-6	10	3/8	G 3/8" - 19 BSP	83.1	47.3	15.4	22.0	6GS6FBSPORX45
-8	12	1/2	G 1/2" - 14 BSP	91.5	54.1	17.0	27.0	8GS8FBSPORX45
-10	16	5/8	G 5/8" - 14 BSP	118.0	67.7	21.3	30.0	10GS10FBSPORX45
-10	16	5/8	G 3/4" - 14 BSP	127.9	77.6	31.2	32.0	10GS12FBSPORX45
-12	20	3/4	G 3/4" - 14 BSP	134.4	83.4	28.3	32.0	12GS12FBSPORX45
-16	25	1	G 1" - 11 BSP	155.5	99.1	30.9	41.0	16GS16FBSPORX45
-20	32	1.1/4	G 1.1/4" - 11 BSP	191.1	120.0	37.5	50.0	20GS20FBSPORX45
-24	40	1.1/2	G 1.1/2" - 11 BSP	214.5	140.9	49.7	55.0	24GSP24FBSPORX45
-32	50	2	G 2" - 11 BSP	276.1	184.1	62.3	70.0	32GSP32FBSPORX45

-6 to -20 size are 42.0 MPa (6000 psi).

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

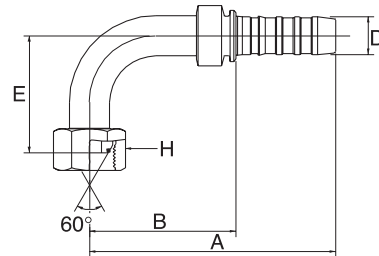


# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

THE WORLD OF COUPLINGS

## BSP FBSPORX90

Female BSP 'O' ring swivel. 60° cone.  
90° swept elbow.

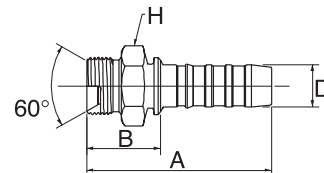


↻			🌀	↔	↻			📐
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	GS
-6	10	3/8	G 3/8" - 19 BSP	78.0	42.2	32.0	22.0	6GS6FBSPORX90
-8	12	1/2	G 1/2" - 14 BSP	88.0	50.5	37.5	27.0	8GS8FBSPORX90
-10	16	5/8	G 5/8" - 14 BSP	112.5	62.2	46.0	30.0	10GS10FBSPORX90
-10	16	5/8	G 3/4" - 14 BSP	112.5	62.2	60.0	32.0	10GS12FBSPORX90
-12	20	3/4	G 3/4" - 14 BSP	126.0	75.0	60.0	32.0	12GS12FBSPORX90
-16	25	1	G 1" - 11 BSP	151.0	94.6	70.0	41.0	16GS16FBSPORX90
-20	32	1.1/4	G 1.1/4" - 11 BSP	180.5	109.4	80.0	50.0	20GS20FBSPORX90
-24	40	1.1/2	G 1.1/2" - 11 BSP	194.6	121.0	100.0	55.0	24GSP24FBSPORX90
-32	50	2	G 2" - 11 BSP	254.7	162.7	129.1	70.0	32GSP32FBSPORX90

-6 to -20 size are 42.0 MPa (6000 psi).

## BSP MBSPP

Male BSP parallel. 60° inverted cone.



↻			🌀	↔	↻			📐
D				A	B	H	REF.	
-size	DN	"		mm	mm	mm	GS	
-6	10	3/8	G 3/8" - 19 BSP	63.0	27.2	22.0	6GS6MBSPP	
-6	10	3/8	G 1/2" - 14 BSP	68.0	32.2	27.0	6GS8MBSPP	
-8	12	1/2	G 1/2" - 14 BSP	67.5	30.0	27.0	8GS8MBSPP	
-10	16	5/8	G 5/8" - 14 BSP	84.0	33.7	30.0	10GS10MBSPP	
-10	16	5/8	G 3/4" - 14 BSP	85.0	34.7	32.0	10GS12MBSPP	
-12	20	3/4	G 3/4" - 14 BSP	85.0	34.7	32.0	12GS12MBSPP	
-12	20	3/4	G 1" - 11 BSP	90.0	39.0	41.0	12GS16MBSPP	
-16	25	1	G 1" - 11 BSP	98.0	41.2	41.0	16GS16MBSPP	
-20	32	1.1/4	G 1.1/4" - 11 BSP	118.0	46.9	50.0	20GS20MBSPP	
-24	40	1.1/2	G 1.1/2" - 11 BSP	130.0	56.4	55.0	24GSP24MBSPP	
-32	50	2	G 2" - 11 BSP	148.8	56.8	70.0	32GSP32MBSPP	

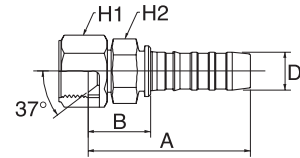
-6 to -20 size are 42.0 MPa (6000 psi).

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

## JIC 37° FJX

Female JIC swivel. 37° inverted cone.



D				A	B	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	GS
-6	10	3/8	9/16" - 18 UNF	69.0	33.2	19.1	19.1	6GS6FJX
-6	10	3/8	3/4" - 16 UNF	71.0	35.2	22.2	19.1	6GS8FJX
-8	12	1/2	3/4" - 16 UNF	72.0	34.5	22.2	22.2	8GS8FJX
-8	12	1/2	7/8" - 14 UNF	75.9	38.4	27.0	22.2	8GS10FJX
-8	12	1/2		77.0	39.5	31.8	22.2	8GS12FJX
-10	16	5/8	7/8" - 14 UNF	93.5	43.2	27.0	25.4	10GS10FJX
-10	16	5/8	1.1/16" - 12 UN	95.0	44.7	31.8	25.4	10GS12FJX
-12	20	3/4	7/8" - 14 UNF	98.4	47.4	28.6	27.0	12GS10FJX
-12	20	3/4	1.1/16" - 12 UN	98.0	47.0	31.8	28.6	12GS12FJX
-12	20	3/4	1.3/16" - 12 UN	103.2	52.2	34.9	28.6	12GS14FJX
-12	20	3/4	1.5/16" - 12 UN	102.0	51.0	38.1	28.6	12GS16FJX
-16	25	1	1.1/16" - 12 UN	107.5	50.7	34.9	34.9	16GS12FJX
-16	25	1	1.3/16" - 12 UN	107.9	51.1	38.1	34.9	16GS14FJX
-16	25	1	1.5/16" - 12 UN	109.6	53.3	38.1	38.1	16GS16FJX
-16	25	1	1.5/8" - 12 UN	115.0	58.6	50.8	38.1	16GS20FJX
-20	32	1.1/4	1.5/16" - 12 UN	129.0	57.9	41.3	44.5	20GS16FJX
-20	32	1.1/4	1.5/8" - 12 UN	136.0	64.9	50.8	47.6	20GS20FJX
-20	32	1.1/4	1.7/8" - 12 UN	137.0	65.9	60.3	47.6	20GS24FJX
-24	40	1.1/2	1.7/8" - 12 UN	124.0	50.4	60.0	55.0	24GSP24FJX
-32	50	2	2.1/2" - 12 UN	148.0	56.0	75.0	65.0	32GSP32FJX

-6 to -20 size are 42.0 MPa (6000 psi).

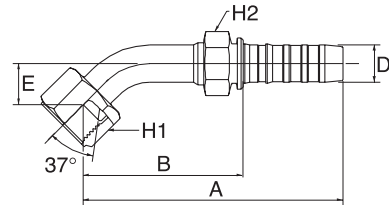
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

THE WORLD OF COUPLINGS

## JIC 37° FJX45

Female JIC swivel. 37° inverted cone.  
45° swept elbow.

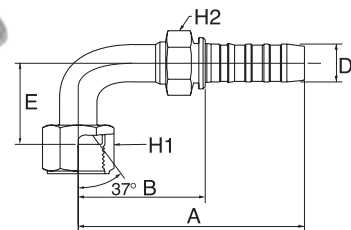


D				A	B	E	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	mm	GS
-6	10	3/8	9/16" - 18 UNF	82.0	46.2	11.0	19.1	19.1	6GS6FJX45S
-6	10	3/8	3/4" - 16 UNF	93.0	57.2	15.0	22.2	19.1	6GS8FJX45S
-8	12	1/2	3/4" - 16 UNF	94.0	56.5	15.0	22.2	22.2	8GS8FJX45S
-8	12	1/2	7/8" - 14 UNF	91.0	53.5	16.0	27.0	22.2	8GS10FJX45S
-10	16	5/8	7/8" - 14 UNF	113.0	63.0	18.0	27.0	30.0	10GS10FJX45-018
-10	16	5/8	1.1/16" - 12 UN	122.0	71.7	21.0	31.8	25.4	10GS12FJX45S
-12	20	3/4	1.1/16" - 12 UN	130.0	79.0	21.0	31.8	28.6	12GS12FJX45S
-12	20	3/4	1.5/16" - 12 UN	137.0	86.0	24.0	38.1	28.6	12GS16FJX45S
-16	25	1	1.5/16" - 12 UN	152.0	95.6	24.0	38.1	38.1	16GS16FJX45S
-16	25	1	1.5/8" - 12 UN	164.0	107.6	25.0	50.8	38.1	16GS20FJX45S
-20	32	1.1/4	1.5/8" - 12 UN	180.0	108.9	38.0	50.8	47.6	20GS20FJX45-038
-24	40	1.1/2	1.7/8" - 12 UN	233.0	159.5	50.0	60.0	55.0	24GSP24FJX45-050
-32	50	2	2.1/2" - 12 UN	267.0	175.5	65.0	75.0	65.0	32GSP32FJX45-065

-6 to -20 size are 42.0 MPa (6000 psi). / S: Short drop per ISO 12151-5.

## JIC 37° FJX90S

Female JIC swivel. 37° inverted cone.  
90° swept elbow. Short drop.



D				A	B	E	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	mm	GS
-6	10	3/8	9/16" - 18 UNF	79.0	43.2	23.0	19.1	19.1	6GS6FJX90S
-8	12	1/2	3/4" - 16 UNF	86.0	48.6	29.0	22.2	22.2	8GS8FJX90S
-8	12	1/2	7/8" - 14 UNF	92.0	54.5	32.0	27.0	22.2	8GS10FJX90S
-8	12	1/2	1.1/16" - 12 UN	111.0	73.5	48.0	31.8	22.2	8GS12FJX90S
-10	16	5/8	7/8" - 14 UNF	111.0	43.3	36.0	27.0	30.0	10GS10FJX90-036
-12	20	3/4	1.1/16" - 12 UN	119.0	68.0	48.0	31.8	28.6	12GS12FJX90S
-12	20	3/4	1.5/16" - 12 UN	135.0	84.0	56.0	38.1	28.6	12GS16FJX90S
-16	25	1	1.5/16" - 12 UN	144.0	87.6	56.0	38.1	38.1	16GS16FJX90S
-20	32	1.1/4	1.5/8" - 12 UN	174.0	102.9	64.0	50.8	47.6	20GS20FJX90S

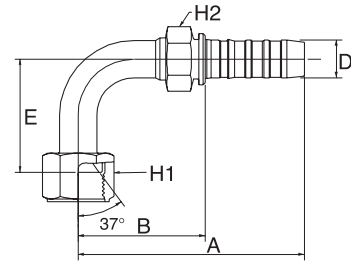
-6 to -20 size are 42.0 MPa (6000 psi). / S: Short drop per ISO 12151-5.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

## JIC 37° FJX90M

Female JIC swivel. 37° inverted cone.  
90° swept elbow. Medium drop.

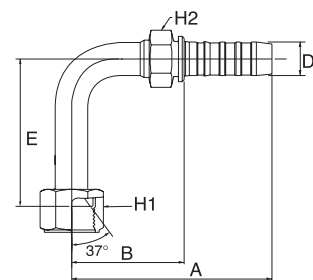


↔			🌀	↔					🌀
D				A	B	E	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	mm	GS
-6	10	3/8	3/4" - 16 UNF	91.0	55.2	41.0	22.2	19.1	6GS8FJX90M
-8	12	1/2	3/4" - 16 UNF	92.0	54.6	41.0	22.2	22.2	8GS8FJX90M
-8	12	1/2	7/8" - 14 UNF	89.0	51.5	47.0	27.0	22.2	8GS10FJX90M
-10	16	5/8	7/8" - 14 UNF	107.0	57.0	47.0	27.0	30.0	10GS10FJX90M
-10	16	5/8	1.1/16" - 12 UN	121.0	70.7	58.0	31.8	25.4	10GS12FJX90M
-12	20	3/4	1.1/16" - 12 UN	119.0	68.0	58.0	31.8	28.6	12GS12FJX90M
-12	20	3/4	1.3/16" - 12 UN	141.0	90.0	60.0	34.9	28.6	12GS14FJX90-060
-12	20	3/4	1.5/16" - 12 UN	135.0	84.0	71.0	38.1	28.6	12GS16FJX90M
-16	25	1	1.5/16" - 12 UN	144.0	87.6	71.0	38.1	38.1	16GS16FJX90M
-20	32	1.1/4	1.5/8" - 12 UN	174.0	102.9	78.0	50.8	47.6	20GS20FJX90M
-24	40	1.1/2	1.7/8" - 12 UN	212.0	138.4	89.0	60.0	55.0	24GSP24FJX90-089
-32	50	2	2.1/2" - 12 UN	272.0	179.7	140.0	75.0	65.0	32GSP32FJX90M

-6 to -20 size are 42.0 MPa (6000 psi). / M: Medium drop per ISO 12151-5.

## JIC 37° FJX90L

Female JIC swivel. 37° inverted cone.  
90° swept elbow. Long drop.



↔			🌀	↔					🌀
D				A	B	E	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	mm	GS
-6	10	3/8	9/16" - 18 UNF	86.0	50.2	54.0	19.1	19.1	6GS6FJX90L
-8	12	1/2	3/4" - 16 UNF	92.0	54.6	64.0	22.2	22.2	8GS8FJX90L
-8	12	1/2	7/8" - 14 UNF	89.0	51.5	70.0	27.0	22.2	8GS10FJX90L
-12	20	3/4	1.1/16" - 12 UN	113.0	62.0	96.0	31.8	28.6	12GS12FJX90L
-16	25	1	1.5/16" - 12 UN	144.0	87.6	114.0	38.1	38.1	16GS16FJX90L
-16	25	1	1.5/8" - 12 UN	154.0	97.6	129.0	50.8	38.1	16GS20FJX90L
-20	32	1.1/4	1.5/8" - 12 UN	174.0	102.9	129.0	50.8	47.6	20GS20FJX90L

-6 to -20 size are 42.0 MPa (6000 psi). / L: Long drop per ISO 12151-5.

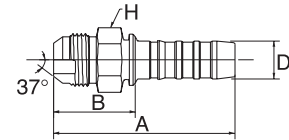
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

THE WORLD OF COUPLINGS

## JIC 37° MJ

Male JIC parallel. 37° cone.

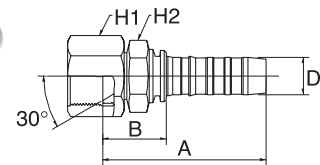


D				A	B	H	REF.
-size	DN	"		mm	mm	mm	GS
-6	10	3/8	9/16" - 18 UNF	66.0	30.2	17.5	6GS6MJ
-6	10	3/8	3/4" - 16 UNF	70.0	34.2	20.6	6GS8MJ
-6	10	3/8	7/8" - 14 UNF	77.0	41.2	23.8	6GS10MJ
-8	12	1/2	3/4" - 16 UNF	72.0	34.5	20.6	8GS8MJ
-8	12	1/2	7/8" - 14 UNF	75.0	37.5	22.2	8GS10MJ
-10	16	5/8	7/8" - 14 UNF	92.0	41.7	23.8	10GS10MJ
-10	16	5/8	1.1/16" - 12 UN	94.0	43.7	27.0	10GS12MJ
-12	20	3/4	1.1/16" - 12 UN	93.0	42.0	28.6	12GS12MJ
-12	20	3/4	1.3/16" - 12 UN	94.0	43.0	31.8	12GS14MJ
-12	20	3/4	1.5/16" - 12 UN	96.0	45.0	33.3	12GS16MJ
-16	25	1	1.5/16" - 12 UN	104.0	47.2	34.9	16GS16MJ
-16	25	1	1.5/8" - 12 UN	108.5	51.7	44.5	16GS20MJ
-20	32	1.1/4	1.5/8" - 12 UN	125.0	53.9	44.5	20GS20MJ
-24	40	1.1/2	1.7/8" - 12 UN	130.0	56.4	50.0	24GSP24MJ
-32	50	2	2.1/2" - 12 UN	161.1	69.1	65.0	32GSP32MJ

-6 to -20 size are 42.0 MPa (6000 psi).

## JIS FKX

Female Japanese swivel. 30° inverted cone.  
Metric thread.



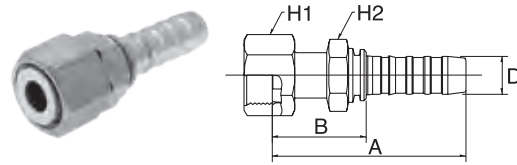
D				A	B	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	GS
-8	12	1/2	M22 x 1.5	61.4	24.0	27.0	27.0	8GS8FKX
-10	16	5/8	M24 x 1.5	80.0	29.7	32.0	30.0	10GS10FKX
-12	20	3/4	M30 x 1.5	83.7	32.7	36.0	32.0	12GS12FKX
-16	25	1	M33 x 1.5	92.6	36.2	41.0	41.0	16GS16FKX

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

## SAE FFORX

Female SAE flat face 'O' ring swivel.



D				A	B	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	GS
-6	10	3/8	11/16" - 16 UN	69.0	33.2	22.0	22.0	6GS6FFORX
-6	10	3/8	13/16" - 16 UN	72.0	36.2	24.0	22.0	6GS8FFORX
-8	12	1/2	13/16" - 16 UN	71.5	34.0	24.0	27.0	8GS8FFORX
-8	12	1/2	1" - 14 UNS	78.0	40.5	30.0	27.0	8GS10FFORX
-8	12	1/2	1.3/16" - 12 UN	79.0	41.5	36.0	27.0	8GS12FFORX
-10	16	5/8	1" - 14 UNS	93.0	42.7	30.0	30.0	10GS10FFORX
-10	16	5/8	1.3/16" - 12 UN	95.0	44.7	36.0	30.0	10GS12FFORX
-12	20	3/4	1" - 14 UNS	97.0	46.0	30.0	32.0	12GS10FFORX
-12	20	3/4	1.3/16" - 12 UN	100.5	49.5	36.0	32.0	12GS12FFORX
-12	20	3/4	1.7/16" - 12 UN	103.0	52.0	41.0	32.0	12GS16FFORX
-12	20	3/4	1.11/16" - 12 UN	99.3	48.3	50.0	32.0	12GS20FFORX
-16	25	1	1.7/16" - 12 UN	111.0	54.6	41.0	41.0	16GS16FFORX
-16	25	1	1.11/16" - 12 UN	110.7	54.3	50.0	41.0	16GS20FFORX
-20	32	1.1/4	1.11/16" - 12 UN	128.0	56.9	50.0	50.0	20GS20FFORX
-24	40	1.1/2	2" - 12 UN	137.0	63.4	60.0	55.0	24GSP24FFORX

-6 to -20 size are 42.0 MPa (6000 psi).

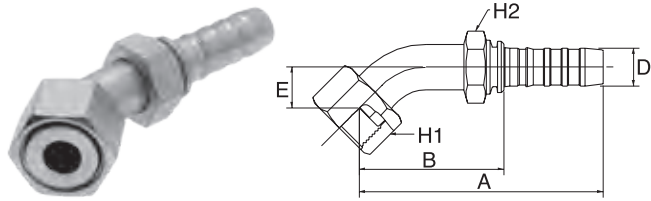
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

THE WORLD OF COUPLINGS

## SAE FFORX45

Female SAE flat face 'O' ring swivel.  
45° swept elbow.

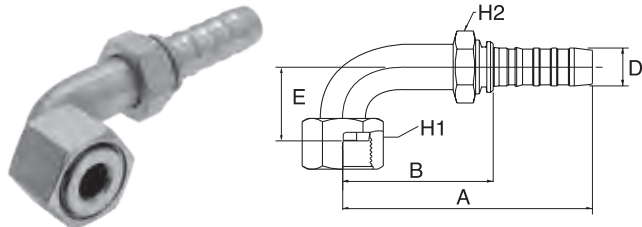


↻			🌀	↔					🔧
D				A	B	E	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	mm	GS
-6	10	3/8	11/16" - 16 UN	82.0	46.2	11.0	22.0	22.0	6GS6FFORX45S
-6	10	3/8	13/16" - 16 UN	93.0	57.2	15.0	24.0	22.0	6GS8FFORX45S
-8	12	1/2	13/16" - 16 UN	94.0	56.5	15.0	24.0	27.0	8GS8FFORX45S
-8	12	1/2	1" - 14 UNS	99.0	61.5	16.0	30.0	27.0	8GS10FFORX45S
-10	16	5/8	1" - 14 UNS	111.0	60.7	16.0	30.0	30.0	10GS10FFORX45S
-12	20	3/4	1.3/16" - 12 UN	125.0	74.0	21.0	36.0	32.0	12GS12FFORX45S
-12	20	3/4	1.7/16" - 12 UN	137.0	86.0	24.0	41.0	32.0	12GS16FFORX45S
-16	25	1	1.7/16" - 12 UN	144.0	87.6	24.0	41.0	41.0	16GS16FFORX45S
-16	25	1	1.11/16" - 12 UN	164.0	107.6	25.0	50.0	41.0	16GS20FFORX45S
-20	32	1.1/4	1.11/16" - 12 UN	180.0	108.9	32.0	50.0	50.0	20GS20FFORX45-032

-6 to -20 size are 42.0 MPa (6000 psi). / S: Short drop per ISO 12151-1.

## SAE FFORX90S

Female SAE flat face 'O' ring swivel.  
90° swept elbow. Short drop.



↻			🌀	↔					🔧
D				A	B	E	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	mm	GS
-6	10	3/8	11/16" - 16 UN	78.0	42.2	23.0	22.0	22.0	6GS6FFORX90S
-8	12	1/2	13/16" - 16 UN	86.0	48.5	29.0	24.0	27.0	8GS8FFORX90S
-8	12	1/2	1.3/16" - 12 UN	107.0	69.5	48.0	36.0	27.0	8GS12FFORX90S
-10	16	5/8	1" - 14 UNS	106.6	56.3	32.0	30.0	30.0	10GS10FFORX90S
-12	20	3/4	1" - 14 UNS	111.0	60.0	32.0	30.0	32.0	12GS10FFORX90S
-12	20	3/4	1.3/16" - 12 UN	128.0	77.0	48.0	36.0	32.0	12GS12FFORX90S
-12	20	3/4	1.7/16" - 12 UN	137.0	86.0	56.0	41.0	32.0	12GS16FFORX90S
-16	25	1	1.7/16" - 12 UN	144.0	87.6	56.0	41.0	41.0	16GS16FFORX90S
-16	25	1	1.11/16" - 12 UN	151.1	94.7	64.0	50.0	41.0	16GS20FFORX90S
-20	32	1.1/4	1.11/16" - 12 UN	172.0	100.9	64.0	50.0	50.0	20GS20FFORX90S
-20	32	1.1/4	2" - 12 UN	172.0	100.9	64.0	60.0	50.0	20GS24FFORX90-064

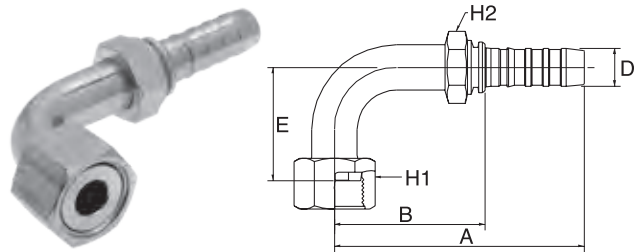
-6 to -20 size are 42.0 MPa (6000 psi). / S: Short drop per ISO 12151-1.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

## SAE FFORX90M

Female SAE flat face 'O' ring swivel.  
90° swept elbow. Medium drop.

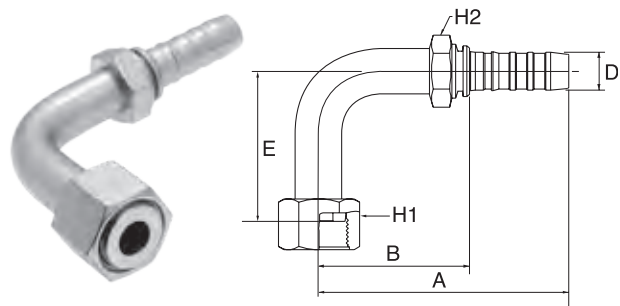


↔			🌀	↔	↔				🌀
D				A	B	E	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	mm	GS
-6	10	3/8	13/16" - 16 UN	85.0	49.2	41.0	24.0	22.0	6GS8FFORX90M
-8	12	1/2	1.3/16" - 12 UN	101.0	63.5	47.0	30.0	27.0	8GS10FFORX90M
-10	16	5/8	1" - 14 UNS	107.0	56.7	47.0	30.0	30.0	10GS10FFORX90M
-12	20	3/4	1.3/16" - 12 UN	128.0	77.0	58.0	36.0	32.0	12GS12FFORX90M
-16	25	1	1.7/16" - 12 UN	144.0	87.6	71.0	41.0	41.0	16GS16FFORX90M
-16	25	1	1.11/16" - 12 UN	153.6	97.2	78.0	50.0	41.0	16GS20FFORX90M
-20	32	1.1/4	1.11/16" - 12 UN	172.0	100.9	78.0	50.0	50.0	20GS20FFORX90M

-6 to -20 size are 42.0 MPa (6000 psi). / M: Medium drop per ISO 12151-1.

## SAE FFORX90L

Female SAE flat face 'O' ring swivel.  
90° swept elbow. Long drop.



↔			🌀	↔	↔				🌀
D				A	B	E	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	mm	GS
-6	10	3/8	11/16" - 16 UN	85.0	49.2	54.0	22.0	22.0	6GS6FFORX90L
-8	12	1/2	13/16" - 16 UN	86.0	48.5	83.0	24.0	27.0	8GS8FFORX90-083
-10	16	5/8	1" - 14 UNS	112.9	62.6	70.0	30.0	30.0	10GS10FFORX90L
-12	20	3/4	1.3/16" - 12 UN	128.0	77.0	96.0	36.0	32.0	12GS12FFORX90L
-16	25	1	1.7/16" - 12 UN	144.0	87.6	114.0	41.0	41.0	16GS16FFORX90L
-20	32	1.1/4	1.11/16" - 12 UN	172.0	100.9	129.0	50.0	50.0	20GS20FFORX90L

-6 to -20 size are 42.0 MPa (6000 psi). / L: Long drop per ISO 12151-1.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

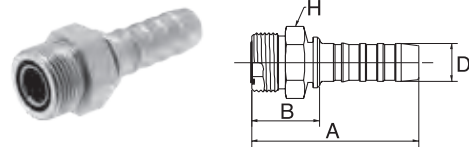


# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

THE WORLD OF COUPLINGS

## SAE MFFOR

Male SAE flat face 'O' ring.

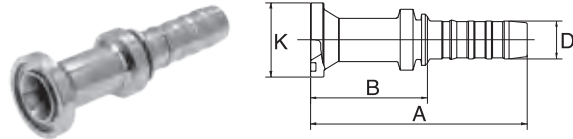


↔			🌀	↔			🌀
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	GS
-6	10	3/8	11/16" - 16 UN	64.0	28.2	19.0	6GS6MFFOR
-8	12	1/2	13/16" - 16 UN	68.0	30.5	22.0	8GS8MFFOR
-12	20	3/4	1.3/16" - 12 UN	89.0	38.0	32.0	12GS12MFFOR
-12	20	3/4	1.7/16" - 12 UN	95.0	44.0	41.0	12GS16MFFOR
-16	25	1	1.7/16" - 12 UN	102.0	45.2	41.0	16GS16MFFOR
-20	32	1.1/4	1.11/16" - 12 UN	120.0	48.9	46.0	20GS20MFFOR

-6 to -20 size are 42.0 MPa (6000 psi).

## SAE FL

SAE 'O' ring flange. Code 61.



↔			🌀	↔			🌀	
D				A	B	K	KIT	REF.
-size	DN	"		mm	mm	mm		GS
-6	10	3/8	1/2"	90.0	54.2	30.2	8 PA-FL	6GS8FL
-8	12	1/2	1/2"	93.0	55.5	30.2	8 PA-FL	8GS8FL
-8	12	1/2	3/4"	98.0	60.5	38.1	12 PA-FL	8GS12FL
-10	16	5/8	3/4"	109.0	58.7	38.1	12 PA-FL	10GS12FL
-12	20	3/4	1/2"	112.0	61.0	30.2	8 PA-FL	12GS8FL
-12	20	3/4	3/4"	111.0	60.0	38.1	12 PA-FL	12GS12FL
-12	20	3/4	1"	111.0	60.0	44.5	16 PA-FL	12GS16FL
-12	20	3/4	1.1/4"	111.0	60.0	50.8	20 PA-FL	12GS20FL
-16	25	1	1"	125.0	68.6	44.5	16 PA-FL	16GS16FL
-16	25	1	1.1/4"	125.0	68.2	50.8	20 PA-FL	16GS20FL
-16	25	1	1.1/2"	125.0	68.2	60.3	24 PA-FL	16GS24FL
-20	32	1.1/4	1"	136.0	64.9	44.5	16 PA-FL	20GS16FL
-20	32	1.1/4	1.1/4"	146.0	74.9	50.8	20 PA-FL	20GS20FL
-20	32	1.1/4	1.1/2"	160.0	88.9	60.3	24 PA-FL	20GS24FL
-24	40	1.1/2	1.1/2"	152.9	79.3	60.3	24 PA-FL	24GSP24FL
-24	40	1.1/2	2"	152.9	79.3	71.4	32 PA-FL	24GSP32FL
-32	50	2	2"	159.3	67.3	71.4	32 PA-FL	32GSP32FL

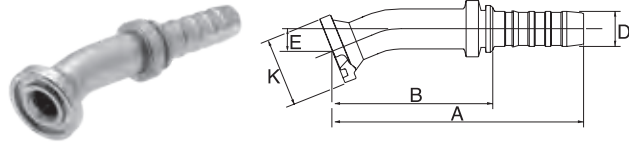
Code 61: -16 size is 35.0 MPa (5000 psi). / Details on flange kits see page 292.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

## SAE FL22

SAE 'O' ring flange. Code 61.  
22° swept elbow.

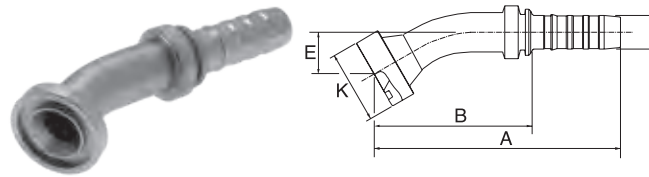


↔			⏏	↔					⏏
D				A	B	E	K	KIT	REF.
-size	DN	"		mm	mm	mm	mm		GS
-8	12	1/2	1/2"	96.0	58.5	9.0	30.2	8 PA-FL	8GS8FL22M
-12	20	3/4	3/4"	131.0	80.0	11.0	38.1	12 PA-FL	12GS12FL22M
-12	20	3/4	1"	133.0	82.0	14.0	44.5	16 PA-FL	12GS16FL22M
-16	25	1	1"	155.0	98.6	14.0	44.5	16 PA-FL	16GS16FL22M
-16	25	1	1.1/4"	168.0	111.4	15.0	50.8	20 PA-FL	16GS20FL22M
-20	32	1.1/4	1.1/4"	178.0	106.9	15.0	50.8	20 PA-FL	20GS20FL22M
-20	32	1.1/4	1.1/2"	186.0	114.9	18.0	60.3	24 PA-FL	20GS24FL22M

Code 61: -16 size is 35.0 MPa (5000 psi). / M: Medium drop per ISO 12151-3. / Details on flange kits see page 292.

## SAE FL30

SAE 'O' ring flange. Code 61.  
30° swept elbow.



↔			⏏	↔					⏏
D				A	B	E	K	KIT	REF.
-size	DN	"		mm	mm	mm	mm		GS
-12	20	3/4	3/4"	129.0	78.0	16.0	38.1	12 PA-FL	12GS12FL30M
-12	20	3/4	1"	121.0	70.0	19.0	44.5	16 PA-FL	12GS16FL30M
-16	25	1	1"	153.0	96.6	19.0	44.5	16 PA-FL	16GS16FL30M
-16	25	1	1.1/4"	166.0	109.1	22.0	50.8	20 PA-FL	16GS20FL30M
-20	32	1.1/4	1.1/4"	176.0	104.9	22.0	50.8	20 PA-FL	20GS20FL30M
-20	32	1.1/4	1.1/2"	182.0	110.9	30.0	60.3	24 PA-FL	20GS24FL30M
-24	40	1.1/2	1.1/2"	209.0	135.2	25.0	60.3	24 PA-FL	24GSP24FL30S

Code 61: -16 size is 35.0 MPa (5000 psi). / S: Short drop - M: Medium drop per ISO 12151-3. / Details on flange kits see page 292.

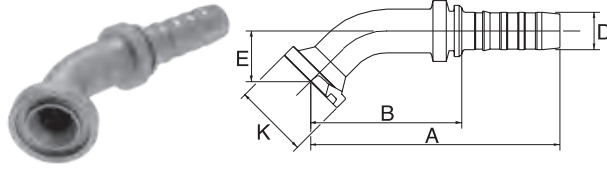
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

THE WORLD OF COUPLINGS

## SAE FL45

SAE 'O' ring flange. Code 61.  
45° swept elbow. Meets ISO 12151-3.

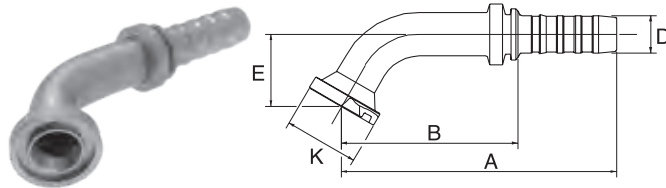


D				A	B	E	K	KIT	REF.
-size	DN	"		mm	mm	mm	mm		GS
-6	10	3/8	1/2"	93.0	57.2	19.0	30.2	8 PA-FL	6GS8FL45M
-8	12	1/2	1/2"	94.0	56.5	19.0	30.2	8 PA-FL	8GS8FL45M
-8	12	1/2	3/4"	101.0	63.5	26.0	38.1	12 PA-FL	8GS12FL45M
-10	16	5/8	3/4"	127.0	76.7	26.0	38.1	12 PA-FL	10GS12FL45M
-12	20	3/4	3/4"	124.0	73.0	26.0	38.1	12 PA-FL	12GS12FL45M
-12	20	3/4	1"	126.0	75.0	28.0	44.5	16 PA-FL	12GS16FL45S
-16	25	1	1"	147.0	90.6	32.0	44.5	16 PA-FL	16GS16FL45M
-16	25	1	1.1/4"	158.0	100.8	38.0	50.8	20 PA-FL	16GS20FL45M
-20	32	1.1/4	1"	163.0	91.9	32.0	44.5	16 PA-FL	20GS16FL45M
-20	32	1.1/4	1.1/4"	170.0	98.9	32.0	50.8	20 PA-FL	20GS20FL45S
-20	32	1.1/4	1.1/2"	176.0	104.9	38.0	60.3	24 PA-FL	20GS24FL45S
-24	40	1.1/2	1.1/2"	202.0	128.6	38.0	60.3	24 PA-FL	24GSP24FL45S
-24	40	1.1/2	2"	200.0	126.3	52.0	71.4	32 PA-FL	24GSP32FL45S
-32	50	2	2"	257.0	165.0	66.0	71.4	32 PA-FL	32GSP32FL45-066

Code 61: -16 size is 35.0 MPa (5000 psi). / S: Short drop - M: Medium drop per ISO 12151-3. / Details on flange kits see page 292.

## SAE FL60

SAE 'O' ring flange. Code 61.  
60° swept elbow.



D				A	B	E	K	KIT	REF.
-size	DN	"		mm	mm	mm	mm		GS
-8	12	1/2	1/2"	104.0	66.5	27.0	30.2	8 PA-FL	8GS8FL60M
-12	20	3/4	3/4"	137.0	86.0	37.0	38.1	12 PA-FL	12GS12FL60M
-12	20	3/4	1"	136.0	85.0	44.0	44.5	16 PA-FL	12GS16FL60M
-16	25	1	1"	157.0	100.6	44.0	44.5	16 PA-FL	16GS16FL60M
-16	25	1	1.1/4"	157.0	100.2	55.0	50.8	20 PA-FL	16GS20FL60M
-20	32	1.1/4	1.1/4"	187.0	115.9	55.0	50.8	20 PA-FL	20GS20FL60M
-20	32	1.1/4	1.1/2"	195.0	123.9	64.0	60.3	24 PA-FL	20GS24FL60M
-24	40	1.1/2	1.1/2"	231.0	157.5	53.0	60.3	24 PA-FL	24GSP24FL60S

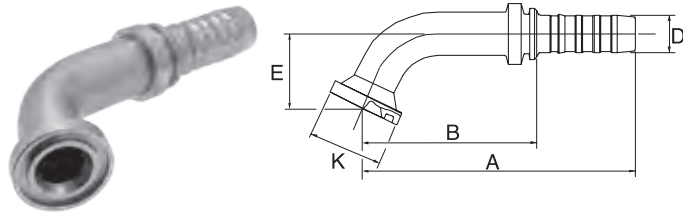
Code 61: -16 size is 35.0 MPa (5000 psi). / S: Short drop - M: Medium drop per ISO 12151-3. / Details on flange kits see page 292.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

## SAE FL67

SAE 'O' ring flange. Code 61.  
67° swept elbow.

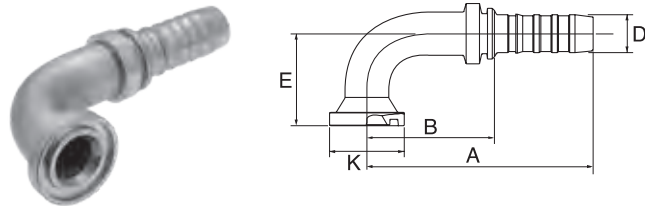


↻			⊕	↔					⊕
D				A	B	E	K	KIT	REF.
-size	DN	"		mm	mm	mm	mm		GS
-12	20	3/4	1"	129.0	78.0	51.0	44.5	16 PA-FL	12GS16FL67M
-16	25	1	1"	151.0	94.6	51.0	44.5	16 PA-FL	16GS16FL67M
-16	25	1	1.1/4"	148.0	91.2	64.0	50.8	20 PA-FL	16GS20FL67M
-20	32	1.1/4	1.1/4"	179.0	107.7	64.0	50.8	20 PA-FL	20GS20FL67M

Code 61: -16 size is 35.0 MPa (5000 psi). / M: Medium drop per ISO 12151-3. / Details on flange kits see page 292.

## SAE FL90S

SAE 'O' ring flange. Code 61.  
90° swept elbow. Short drop.



↻			⊕	↔					⊕
D				A	B	E	K	KIT	REF.
-size	DN	"		mm	mm	mm	mm		GS
-12	20	3/4	1"	128.0	77.0	61.0	44.5	16 PA-FL	12GS16FL90S
-16	25	1	1"	135.0	78.6	61.0	44.5	16 PA-FL	16GS16FL90S
-16	25	1	1.1/4"	134.0	76.8	68.0	50.8	20 PA-FL	16GS20FL90S
-16	25	1	1.1/2"	134.0	77.2	81.0	60.3	24 PA-FL	16GS24FL90S
-20	32	1.1/4	1.1/4"	165.0	93.9	68.0	50.8	20 PA-FL	20GS20FL90S
-20	32	1.1/4	1.1/2"	166.0	94.9	81.0	60.3	24 PA-FL	20GS24FL90S
-24	40	1.1/2	1.1/2"	184.0	109.9	81.0	60.3	24 PA-FL	24GSP24FL90S

Code 61: -16 size is 35.0 MPa (5000 psi). / S: Short drop per ISO 12151-3. / Details on flange kits see page 292.

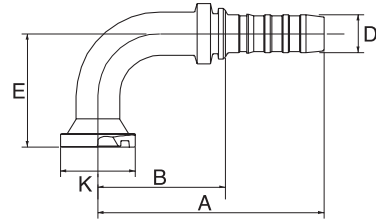
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

THE WORLD OF COUPLINGS

## SAE FL90M

SAE 'O' ring flange. Code 61.  
90° swept elbow. Medium drop.



D				A	B	E	K	KIT	REF.
-size	DN	"		mm	mm	mm	mm		GS
-6	10	3/8	1/2"	87.0	51.2	40.0	30.2	8 PA-FL	6GS8FL90M
-8	12	1/2	1/2"	88.0	50.5	40.0	30.2	8 PA-FL	8GS8FL90M
-8	12	1/2	3/4"	88.0	50.4	58.0	38.1	12 PA-FL	8GS12FL90M
-10	16	5/8	3/4"	110.0	59.7	58.0	38.1	12 PA-FL	10GS12FL90M
-12	20	3/4	1/2"	122.0	71.0	50.0	30.2	8 PA-FL	12GS8FL90-050
-12	20	3/4	3/4"	112.0	61.0	58.0	38.1	12 PA-FL	12GS12FL90M
-12	20	3/4	1"	128.0	77.0	70.0	44.5	16 PA-FL	12GS16FL90M
-16	25	1	1"	135.0	78.6	70.0	44.5	16 PA-FL	16GS16FL90M
-16	25	1	1.1/4"	134.0	76.8	90.0	50.8	20 PA-FL	16GS20FL90M
-20	32	1.1/4	1"	160.0	88.9	70.0	44.5	16 PA-FL	20GS16FL90M
-20	32	1.1/4	1.1/4"	166.0	94.9	90.0	50.8	20 PA-FL	20GS20FL90M
-20	32	1.1/4	1.1/2"	165.0	93.9	118.0	60.3	24 PA-FL	20GS24FL90-118
-24	40	1.1/2	2"	175.0	101.9	80.0	71.4	32 PA-FL	24GSP32FL90-080
-32	50	2	2"	222.0	130.1	114.0	71.4	32 PA-FL	32GSP32FL90-114

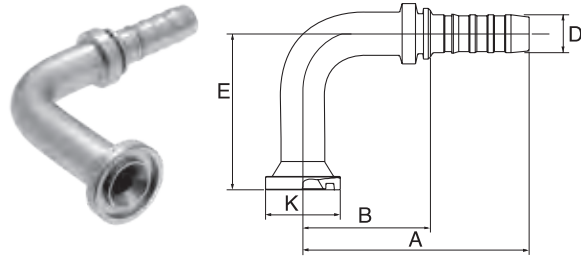
Code 61: -16 size is 35.0 MPa (5000 psi). / M: Medium drop per ISO 12151-3. / Details on flange kits see page 292.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

## SAE FL90L

SAE 'O' ring flange. Code 61.  
90° swept elbow. Long drop.

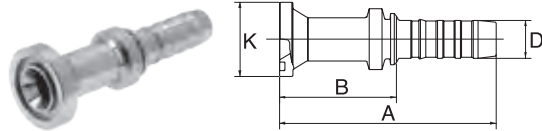


↻			⊕	↔				⊕	
D				A	B	E	K	KIT	REF.
-size	DN	"		mm	mm	mm	mm		GS
-10	16	5/8	3/4"	110.0	59.7	100.0	38.1	12 PA-FL	10GS12FL90-100
-12	20	3/4	3/4"	122.0	71.0	100.0	38.1	12 PA-FL	12GS12FL90-100
-12	20	3/4	3/4"	122.0	71.0	125.0	38.1	12 PA-FL	12GS12FL90-125
-12	20	3/4	3/4"	116.0	65.0	150.0	38.1	12 PA-FL	12GS12FL90-150
-12	20	3/4	1"	116.0	65.0	100.0	44.5	16 PA-FL	12GS16FL90-100
-16	25	1	1"	135.0	78.6	100.0	44.5	16 PA-FL	16GS16FL90-100
-16	25	1	1"	134.0	77.6	120.0	44.5	16 PA-FL	16GS16FL90-120
-20	32	1.1/4	1.1/4"	166.0	94.9	168.0	50.8	20 PA-FL	20GS20FL90-168

Code 61: -16 size is 35.0 MPa (5000 psi); -20: 28.0 MPa (4000 psi). / Details on flange kits see page 292.

## SAE FLH

SAE 'O' ring flange high-pressure.  
Code 62.



↻			⊕	↔				⊕	
D				A	B	K	KIT	KIT	REF.
-size	DN	"		mm	mm	mm			GS
-8	12	1/2	1/2"	93.0	55.5	31.8	8 PH-FLH	8FLHCFM	8GS8FLH
-8	12	1/2	3/4"	93.0	55.5	41.3	12 PH-FLH	12FLHCFM	8GS12FLH
-10	16	5/8	1/2"	109.0	58.7	31.8	8 PH-FLH		10GS8FLH
-10	16	5/8	3/4"	109.0	58.7	41.3	12 PH-FLH	12FLHCFM	10GS12FLH
-12	20	3/4	3/4"	114.0	63.0	41.3	12 PH-FLH	12FLHCFM	12GS12FLH
-12	20	3/4	1"	114.0	63.0	47.6	16 PH-FLH	16FLHCFM	12GS16FLH
-16	25	1	3/4"	129.0	72.6	41.3	12 PH-FLH		16GS12FLH
-16	25	1	1"	125.0	68.6	47.6	16 PH-FLH	16FLHCFM	16GS16FLH
-16	25	1	1.1/4"	125.0	68.2	54.0	20 PH-FLH	20FLHCFM	16GS20FLH
-20	32	1.1/4	1"	163.0	91.9	47.6	16 PH-FLH		20GS16FLH
-20	32	1.1/4	1.1/4"	146.0	74.9	54.0	20 PH-FLH	20FLHCFM	20GS20FLH
-20	32	1.1/4	1.1/2"	160.0	88.9	63.5	24 PH-FLH	24FLHCFM	20GS24FLH

Details on flange kits see page 292.

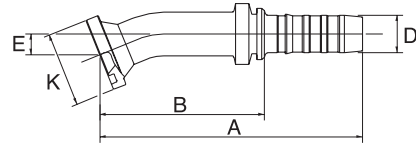
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

THE WORLD OF COUPLINGS

## SAE FLH22

SAE 'O' ring flange high-pressure.  
Code 62. 22° swept elbow.

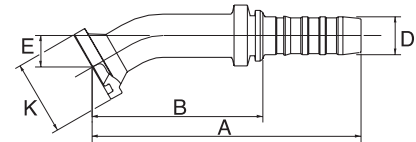


D			A B E K				KIT	KIT	REF.
-size	DN	"	mm	mm	mm	mm			GS
-16	25	1	155.0	98.6	14.0	47.6	16 PH-FLH	16FLHCFM	16GS16FLH22M
-20	32	1.1/4	186.0	114.9	15.0	54.0	20 PH-FLH		20GS20FLH22M

M: Medium drop per ISO 12151-3. / Details on flange kits see page 292.

## SAE FLH30

SAE 'O' ring flange high-pressure.  
Code 62. 30° swept elbow.



D			A B E K				KIT	KIT	REF.
-size	DN	"	mm	mm	mm	mm			GS
-16	25	1	153.0	96.6	19.0	47.6	16 PH-FLH	16FLHCFM	16GS16FLH30M
-16	25	1	166.0	109.1	22.0	54.0	20 PH-FLH	20FLHCFM	16GS20FLH30M
-20	32	1.1/4	184.0	112.9	22.0	54.0	20 PH-FLH		20GS20FLH30M
-20	32	1.1/4	184.0	112.9	30.0	63.5	24 PH-FLH	24FLHCFM	20GS24FLH30M

M: Medium drop per ISO 12151-3. / Details on flange kits see page 292.

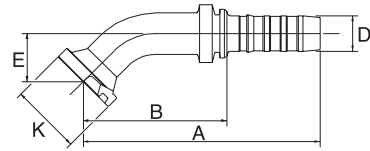
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES

## GLOBALSPIRAL

### SAE FLH45

SAE 'O' ring flange high-pressure.  
Code 62. 45° swept elbow.

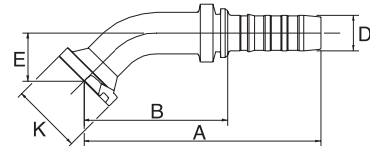


↔			⊏	↔						⊏
D				A	B	E	K	KIT	KIT	REF.
-size	DN	"		mm	mm	mm	mm			GS
-8	12	1/2	1/2"	94.0	56.5	19.0	31.8	8 PH-FLH	8FLHCFM	8GS8FLH45M
-8	12	1/2	3/4"	101.0	63.5	26.0	41.3	12 PH-FLH	12FLHCFM	8GS12FLH45M
-10	16	5/8	1/2"	115.0	64.7	19.0	31.8	8 PH-FLH		10GS8FLH45M
-10	16	5/8	3/4"	127.0	76.7	26.0	41.3	12 PH-FLH	12FLHCFM	10GS12FLH45M
-12	20	3/4	3/4"	124.0	73.0	26.0	41.3	12 PH-FLH	12FLHCFM	12GS12FLH45M
-12	20	3/4	1"	130.0	79.0	32.0	47.6	16 PH-FLH	16FLHCFM	12GS16FLH45M
-16	25	1	3/4"	141.0	84.2	26.0	41.3	12 PH-FLH		16GS12FLH45M
-16	25	1	1"	147.0	90.6	32.0	47.6	16 PH-FLH	16FLHCFM	16GS16FLH45M
-16	25	1	1.1/4"	158.0	101.2	38.0	54.0	20 PH-FLH	20FLHCFM	16GS20FLH45M
-20	32	1.1/4	1"	191.1	120.0	33.7	47.6	16 PH-FLH		20GS16FLH45-034
-20	32	1.1/4	1.1/4"	176.0	104.9	38.1	54.0	20 PH-FLH	20FLHCFM	20GS20FLH45M
-20	32	1.1/4	1.1/2"	176.0	104.9	44.0	63.5	24 PH-FLH	24FLHCFM	20GS24FLH45M

M: Medium drop per ISO 12151-3. / Details on flange kits see page 292.

### SAE FLH60

SAE 'O' ring flange high-pressure.  
Code 62. 60° swept elbow.



↔			⊏	↔						⊏
D				A	B	E	K	KIT	KIT	REF.
-size	DN	"		mm	mm	mm	mm			GS
-12	20	3/4	3/4"	137.0	86.0	37.0	41.3	12 PH-FLH	12FLHCFM	12GS12FLH60M
-12	20	3/4	1"	136.0	85.0	44.0	47.6	16 PH-FLH	16FLHCFM	12GS16FLH60M
-16	25	1	1"	157.0	100.6	44.0	47.6	16 PH-FLH	16FLHCFM	16GS16FLH60M
-20	32	1.1/4	1.1/4"	186.0	114.9	55.0	54.0	20 PH-FLH		20GS20FLH60M

M: Medium drop per ISO 12151-3. / Details on flange kits see page 292.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

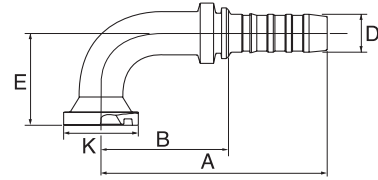


# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

THE WORLD OF COUPLINGS

## SAE FLH90S

SAE 'O' ring flange high-pressure.  
Code 62. 90° swept elbow. Short drop.

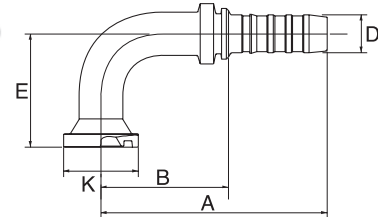


D				A B E K				KIT	KIT	REF.
-size	DN	"		mm	mm	mm	mm			GS
-16	25	1	1"	135.0	78.6	61.0	47.6	16 PH-FLH	16FLHCFM	16GS16FLH90S
-16	25	1	1.1/4"	134.0	76.8	68.0	54.0	20 PH-FLH	20FLHCFM	16GS20FLH90S
-16	25	1	1.1/2"	134.0	77.2	81.0	63.5	24 PH-FLH	24FLHCFM	16GS24FLH90S
-20	32	1.1/4	1"	160.0	88.9	61.0	47.6	16 PH-FLH		20GS16FLH90S
-20	32	1.1/4	1.1/2"	165.0	93.9	81.0	63.5	24 PH-FLH	24FLHCFM	20GS24FLH90S

S: Short drop per ISO 12151-3. / Details on flange kits see page 292.

## SAE FLH90M

SAE 'O' ring flange high-pressure. Code 62.  
90° swept elbow. Medium drop.



D				A B E K				KIT	KIT	REF.
-size	DN	"		mm	mm	mm	mm			GS
-8	12	1/2	1/2"	88.0	50.5	40.0	31.8	8 PH-FLH	8FLHCFM	8GS8FLH90M
-8	12	1/2	3/4"	88.0	50.5	58.0	41.3	12 PH-FLH	12FLHCFM	8GS12FLH90M
-10	16	5/8	1/2"	113.0	62.7	40.0	31.8	8 PH-FLH		10GS8FLH90M
-10	16	5/8	3/4"	110.0	59.7	58.0	41.3	12 PH-FLH	12FLHCFM	10GS12FLH90M
-12	20	3/4	3/4"	112.0	61.0	58.0	41.3	12 PH-FLH	12FLHCFM	12GS12FLH90M
-12	20	3/4	1"	132.0	81.0	70.0	47.6	16 PH-FLH	16FLHCFM	12GS16FLH90M
-16	25	1	3/4"	135.0	78.6	58.0	41.3	12 PH-FLH		16GS12FLH90M
-16	25	1	1"	135.0	78.6	70.0	47.6	16 PH-FLH	16FLHCFM	16GS16FLH90M
-16	25	1	1.1/4"	134.0	76.8	90.0	54.0	20 PH-FLH	20FLHCFM	16GS20FLH90M
-20	32	1.1/4	1"	160.0	88.9	70.0	47.6	16 PH-FLH		20GS16FLH90M
-20	32	1.1/4	1.1/4"	165.0	93.9	90.0	54.0	20 PH-FLH	20FLHCFM	20GS20FLH90M

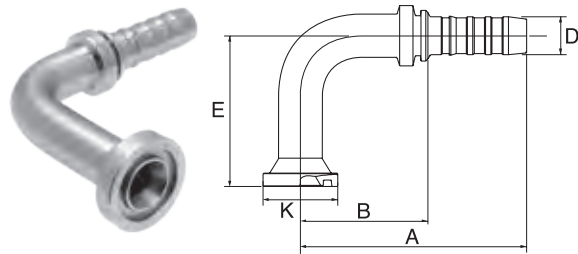
M: Medium drop per ISO 12151-3. / Details on flange kits see page 292.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

## SAE FLH90L

SAE 'O' ring flange high-pressure. Code 62.  
90° swept elbow. Long drop.

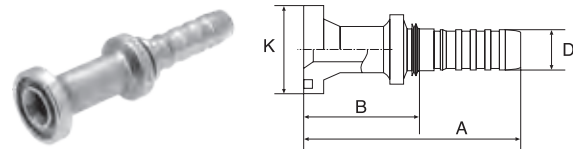


↻			⊕	↔					⊕	REF.
D				A	B	E	K	KIT	KIT	GS
-size	DN	"		mm	mm	mm	mm			
-12	20	3/4	3/4"	112.0	61.0	100.0	41.3	12 PH-FLH	12FLHCFM	12GS12FLH90-100
-16	25	1	1"	135.0	78.2	100.0	47.6	16 PH-FLH	16FLHCFM	16GS16FLH90-100
-16	25	1	1"	134.0	77.6	120.0	47.6	16 PH-FLH	16FLHCFM	16GS16FLH90-120
-20	32	1.1/4	1"	160.0	88.9	100.0	47.6	16 PH-FLH		20GS16FLH90-100
-20	32	1.1/4	1.1/4"	165.0	93.9	120.0	54.0	20 PH-FLH		20GS20FLH90-120
-20	32	1.1/4	1.1/2"	169.0	97.9	150.0	63.5	24 PH-FLH	24FLHCFM	20GS24FLH90-150

Details on flange kits see page 292.

## FLK

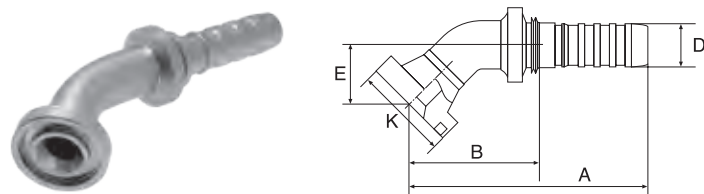
Komatsu type 'O' ring flange.



↻			⊕	↔			REF.
D				A	B	K	GS
-size	DN	"		mm	mm	mm	
-8	12	1/2	5/8"	81.5	44.1	34.2	8GS10FLK
-10	16	5/8	5/8"	114.0	63.7	34.2	10GS10FLK
-12	20	3/4	5/8"	110.0	59.0	34.2	12GS10FLK

## FLK45

Komatsu type 'O' ring flange.  
45° swept elbow.



↻			⊕	↔				REF.
D				A	B	E	K	GS
-size	DN	"		mm	mm	mm	mm	
-10	16	5/8	5/8"	121.0	70.7	26.0	34.2	10GS10FLK45-026

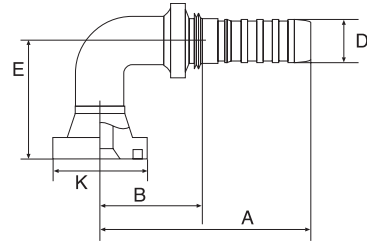
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

THE WORLD OF COUPLINGS

## FLK90

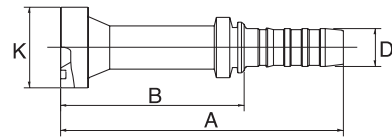
Komatsu type 'O' ring flange.  
90° swept elbow.



D				A B E K				REF.
-size	DN	"	5/8"	mm	mm	mm	mm	GS
-10	16	5/8	5/8"	110.0	59.7	55.0	34.2	10GS10FLK90-055
-12	20	3/4	5/8"	118.0	67.0	55.0	34.2	12GS10FLK90-055

## FLC

Caterpillar type 'O' ring flange.



D				A B K			REF.
-size	DN	"	3/4"	mm	mm	mm	GS
-12	20	3/4	3/4"	145.0	94.0	41.3	12GS12FLC
-12	20	3/4	1"	145.0	94.0	47.6	12GS16FLC
-16	25	1	1"	155.0	98.2	47.6	16GS16FLC
-16	25	1	1.1/4"	155.0	98.2	54.0	16GS20FLC
-20	32	1.1/4	1.1/4"	187.0	115.9	54.0	20GS20FLC
-20	32	1.1/4	1.1/2"	187.0	115.9	63.5	20GS24FLC

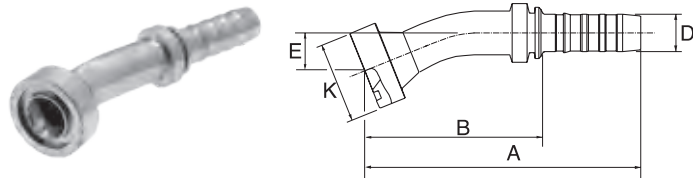
-24 size is 42.0 MPa (6000 psi). / Note: FLC flanges are designed with a thicker flange head. The 14.2 mm flange dimension is frequently found on Caterpillar equipment. This flange lets the user utilise the Caterpillar flange clamp halves where practical when he replaces the hose assembly. At the user's option, standard Code 62 flanges and flange clamp halves can be used in place of the Caterpillar flanges and flange clamp halves. The standard Code 62 flange head thickness ranges between 7.8 and 12.7 mm.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

## FLC22

Caterpillar type 'O' ring flange.  
22° swept elbow.

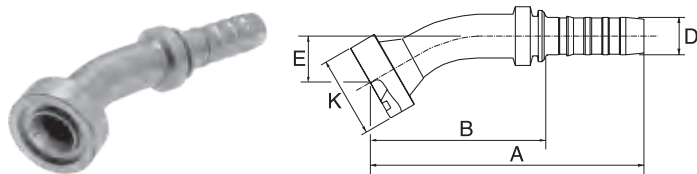


↔			⊞	↔				⊞
D				A	B	E	K	REF.
-size	DN	"		mm	mm	mm	mm	GS
-12	20	3/4	3/4"	143.0	92.0	16.0	41.3	12GS12FLC22-016
-16	25	1	1"	153.0	95.9	17.0	47.6	16GS16FLC22-017
-16	25	1	1.1/4"	153.0	95.9	17.0	54.0	16GS20FLC22-017
-20	32	1.1/4	1.1/4"	185.0	113.9	17.0	54.0	20GS20FLC22-017
-20	32	1.1/4	1.1/2"	185.0	113.9	17.0	63.5	20GS24FLC22-017

-24 size is 42.0 MPa (6000 psi). / Note: FLC flanges are designed with a thicker flange head. The 14.2 mm flange dimension is frequently found on Caterpillar equipment. This flange lets the user utilise the Caterpillar flange clamp halves where practical when he replaces the hose assembly. At the user's option, standard Code 62 flanges and flange clamp halves can be used in place of the Caterpillar flanges and flange clamp halves. The standard Code 62 flange head thickness ranges between 7.8 and 12.7 mm.

## FLC30

Caterpillar type 'O' ring flange.  
30° swept elbow.



↔			⊞	↔				⊞
D				A	B	E	K	REF.
-size	DN	"		mm	mm	mm	mm	GS
-12	20	3/4	3/4"	140.0	89.0	22.0	41.3	12GS12FLC30-022
-12	20	3/4	1"	141.0	90.0	22.0	47.6	12GS16FLC30-022
-16	25	1	1"	151.0	93.7	23.0	47.6	16GS16FLC30-023
-16	25	1	1.1/4"	151.0	93.7	23.0	54.0	16GS20FLC30-023
-20	32	1.1/4	1.1/4"	183.0	111.9	24.0	54.0	20GS20FLC30-024
-20	32	1.1/4	1.1/2"	183.0	111.9	24.0	63.5	20GS24FLC30-024

-24 size is 42.0 MPa (6000 psi). / Note: FLC flanges are designed with a thicker flange head. The 14.2 mm flange dimension is frequently found on Caterpillar equipment. This flange lets the user utilise the Caterpillar flange clamp halves where practical when he replaces the hose assembly. At the user's option, standard Code 62 flanges and flange clamp halves can be used in place of the Caterpillar flanges and flange clamp halves. The standard Code 62 flange head thickness ranges between 7.8 and 12.7 mm.

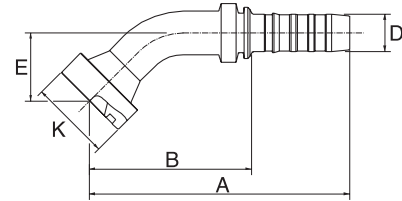
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

THE WORLD OF COUPLINGS

## FLC45

Caterpillar type 'O' ring flange.  
45° swept elbow.

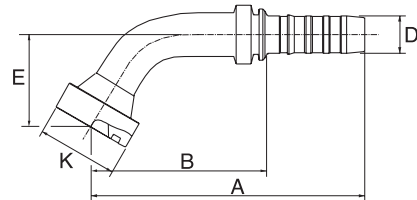


D				A B E K				REF.
-size	DN	"		mm	mm	mm	mm	GS
-12	20	3/4	3/4"	133.0	82.0	35.0	41.3	12GS12FLC45-035
-12	20	3/4	1"	133.0	82.0	35.0	47.6	12GS16FLC45-035
-16	25	1	1"	143.0	86.3	37.0	47.6	16GS16FLC45-037
-16	25	1	1.1/4"	143.0	86.3	37.0	54.0	16GS20FLC45-037
-20	32	1.1/4	1.1/4"	176.0	104.9	37.0	54.0	20GS20FLC45-037
-20	32	1.1/4	1.1/2"	176.0	104.9	37.0	63.5	20GS24FLC45-037

-24 size is 42.0 MPa (6000 psi). / Note: FLC flanges are designed with a thicker flange head. The 14.2 mm flange dimension is frequently found on Caterpillar equipment. This flange lets the user utilise the Caterpillar flange clamp halves where practical when he replaces the hose assembly. At the user's option, standard Code 62 flanges and flange clamp halves can be used in place of the Caterpillar flanges and flange clamp halves. The standard Code 62 flange head thickness ranges between 7.8 and 12.7 mm.

## FLC60

Caterpillar type 'O' ring flange.  
60° swept elbow.



D				A B E K				REF.
-size	DN	"		mm	mm	mm	mm	GS
-12	20	3/4	1"	146.0	95.0	48.0	47.6	12GS16FLC60-048
-16	25	1	1"	163.0	106.0	50.0	47.6	16GS16FLC60-050
-16	25	1	1.1/4"	163.0	106.0	50.0	54.0	16GS20FLC60-050
-20	32	1.1/4	1.1/4"	198.0	126.9	52.0	54.0	20GS20FLC60-052
-20	32	1.1/4	1.1/2"	198.0	126.9	52.0	63.5	20GS24FLC60-052

-24 size is 42.0 MPa (6000 psi). / Note: FLC flanges are designed with a thicker flange head. The 14.2 mm flange dimension is frequently found on Caterpillar equipment. This flange lets the user utilise the Caterpillar flange clamp halves where practical when he replaces the hose assembly. At the user's option, standard Code 62 flanges and flange clamp halves can be used in place of the Caterpillar flanges and flange clamp halves. The standard Code 62 flange head thickness ranges between 7.8 and 12.7 mm.

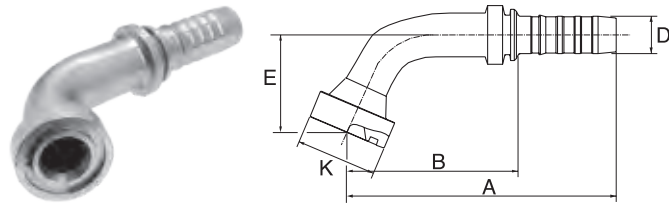
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES

## GLOBALSPIRAL

### FLC67

Caterpillar type 'O' ring flange.  
67° swept elbow.

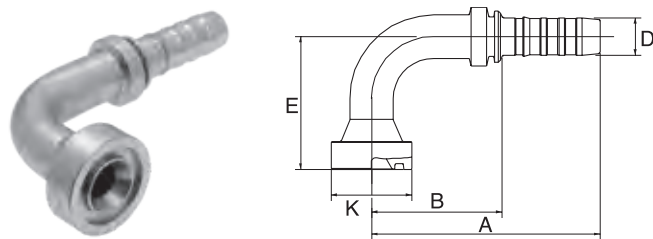


↔			⏏	↔				⏏
D				A	B	E	K	REF.
-size	DN	"		mm	mm	mm	mm	GS
-16	25	1	1"	156.0	99.0	57.0	47.6	16GS16FLC67-057
-16	25	1	1.1/4"	156.0	99.0	57.0	54.0	16GS20FLC67-057
-20	32	1.1/4	1.1/4"	191.0	119.9	59.0	54.0	20GS20FLC67-059
-20	32	1.1/4	1.1/2"	191.0	119.9	59.0	63.5	20GS24FLC67-059

-24 size is 42.0 MPa (6000 psi). / Note: FLC flanges are designed with a thicker flange head. The 14.2 mm flange dimension is frequently found on Caterpillar equipment. This flange lets the user utilise the Caterpillar flange clamp halves where practical when he replaces the hose assembly. At the user's option, standard Code 62 flanges and flange clamp halves can be used in place of the Caterpillar flanges and flange clamp halves. The standard Code 62 flange head thickness ranges between 7.8 and 12.7 mm.

### FLC90

Caterpillar type 'O' ring flange.  
90° swept elbow.



↔			⏏	↔				⏏
D				A	B	E	K	REF.
-size	DN	"		mm	mm	mm	mm	GS
-12	20	3/4	3/4"	125.0	74.0	68.0	41.3	12GS12FLC90-068
-12	20	3/4	3/4"	117.0	66.0	128.0	41.3	12GS12FLC90-128
-12	20	3/4	1"	128.0	77.0	68.0	47.6	12GS16FLC90-068
-16	25	1	1"	131.0	74.1	74.0	47.6	16GS16FLC90-074
-16	25	1	1"	131.0	74.1	132.0	47.6	16GS16FLC90-132
-16	25	1	1.1/4"	131.0	74.1	74.0	54.0	16GS20FLC90-074
-20	32	1.1/4	1.1/4"	166.0	94.9	77.0	54.0	20GS20FLC90-077
-20	32	1.1/4	1.1/2"	166.0	94.9	77.0	63.5	20GS24FLC90-077

-24 size is 42.0 MPa (6000 psi). / Note: FLC flanges are designed with a thicker flange head. The 14.2 mm flange dimension is frequently found on Caterpillar equipment. This flange lets the user utilise the Caterpillar flange clamp halves where practical when he replaces the hose assembly. At the user's option, standard Code 62 flanges and flange clamp halves can be used in place of the Caterpillar flanges and flange clamp halves. The standard Code 62 flange head thickness ranges between 7.8 and 12.7 mm.

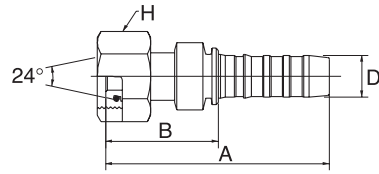
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

THE WORLD OF COUPLINGS

## DIN 24° FDLORX

Female DIN 'O' ring swivel. 24° cone.  
Light series.

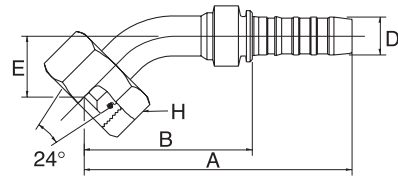


↔			🌀	↔			🌀
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	GS
-6	10	3/8	M18 x 1.5	73.0	37.2	22.0	6GS12FDLORX
-8	12	1/2	M22 x 1.5	73.0	35.5	27.0	8GS15FDLORX
-10	16	5/8	M26 x 1.5	91.8	41.5	32.0	10GS18FDLORX
-12	20	3/4	M30 x 2.0	97.0	46.0	36.0	12GS22FDLORX
-12	20	3/4	M36 x 2.0	99.0	48.0	41.0	12GS28FDLORX
-16	25	1	M36 x 2.0	105.0	48.6	41.0	16GS28FDLORX
-20	32	1.1/4	M45 x 2.0	132.5	61.4	50.0	20GS35FDLORX
-24	40	1.1/2	M52 x 2.0	135.7	62.0	60.0	24GSP42FDLORX

-6 to -20 size are 42.0 MPa (6000 psi).

## DIN 24° FDLORX45

Female DIN 'O' ring swivel. 24° cone.  
Light series. 45° swept elbow.



↔			🌀	↔			🌀	
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	GS
-8	12	1/2	M22 x 1.5	94.7	57.2	20.2	27.0	8GS15FDLORX45
-12	20	3/4	M30 x 2.0	135.8	84.8	29.8	36.0	12GS22FDLORX45
-16	25	1	M36 x 2.0	155.5	99.1	30.9	41.0	16GS28FDLORX45
-24	40	1.1/2	M52 x 2.0	208.9	135.2	44.0	60.0	24GSP42FDLORX45

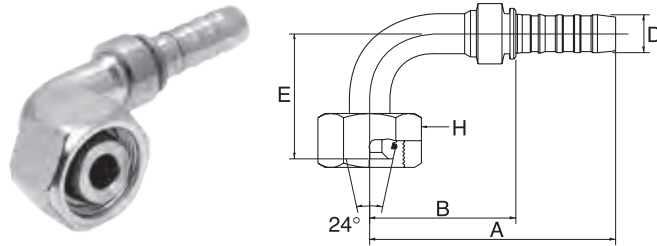
-8 to -16 size are 42.0 MPa (6000 psi).

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

## DIN 24° FDLORX90

Female DIN 'O' ring swivel. 24° cone.  
Light series. 90° swept elbow.

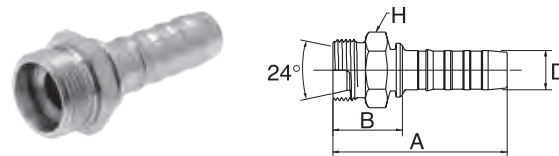


↻			🌀	↔	🔧			
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	GS
-6	10	3/8	M18 x 1.5	78.0	42.2	37.0	22.0	6GS12FDLORX90
-8	12	1/2	M22 x 1.5	88.0	50.5	42.0	27.0	8GS15FDLORX90
-10	16	5/8	M26 x 1.5	113.5	63.2	51.5	32.0	10GS18FDLORX90
-12	20	3/4	M30 x 2.0	126.0	75.0	62.0	36.0	12GS22FDLORX90
-16	25	1	M36 x 2.0	151.0	94.6	70.0	41.0	16GS28FDLORX90
-24	40	1.1/2	M52 x 2.0	194.6	120.9	92.0	60.0	24GSP42FDLORX90

-6 to -16 size are 42.0 MPa (6000 psi).

## DIN 24° MDL

Male DIN parallel. 24° inverted cone.  
Light series.



↻			🌀	↔	🔧		
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	GS
-6	10	3/8	M18 x 1.5	60.0	24.2	19.0	6GS12MDL
-8	12	1/2	M22 x 1.5	63.0	25.5	24.0	8GS15MDL
-10	16	5/8	M26 x 1.5	76.5	26.2	27.0	10GS18MDL
-12	20	3/4	M30 x 2.0	79.5	28.5	32.0	12GS22MDL
-16	25	1	M36 x 2.0	90.0	33.2	41.0	16GS28MDL
-24	40	1.1/2	M52 x 2.0	120.0	46.4	55.0	24GSP42MDL

-6 to -16 size are 42.0 MPa (6000 psi).

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

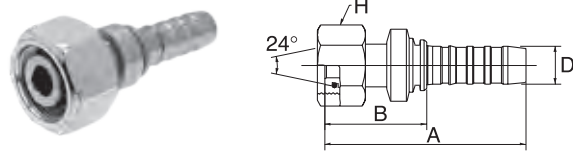


# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

THE WORLD OF COUPLINGS

## DIN 24° FDHORX

Female DIN 'O' ring swivel. 24° cone.  
Heavy series.

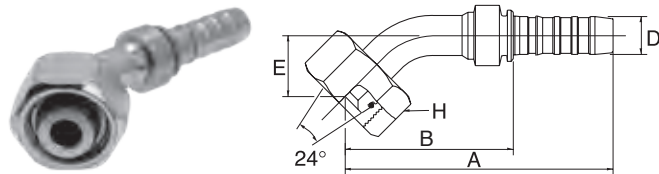


↔			🌀	↔	🌀		
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	GS
-6	10	3/8	M20 x 1.5	73.0	37.2	24.0	6GS12FDHORX
-6	10	3/8	M22 x 1.5	75.5	39.7	27.0	6GS14FDHORX
-8	12	1/2	M22 x 1.5	76.5	38.9	27.0	8GS14FDHORX
-8	12	1/2	M24 x 1.5	79.0	41.5	30.0	8GS16FDHORX
-8	12	1/2	M30 x 2.0	82.0	44.5	36.0	8GS20FDHORX
-10	16	5/8	M30 x 2.0	100.0	49.7	36.0	10GS20FDHORX
-10	16	5/8	M36 x 2.0	104.0	53.7	46.0	10GS25FDHORX
-12	20	3/4	M30 x 2.0	103.0	52.0	36.0	12GS20FDHORX
-12	20	3/4	M36 x 2.0	107.4	56.4	46.0	12GS25FDHORX
-12	20	3/4	M42 x 2.0	97.0	46.0	50.0	12GS30FDHORX
-16	25	1	M36 x 2.0	116.0	59.6	46.0	16GS25FDHORX
-16	25	1	M42 x 2.0	118.0	61.6	50.0	16GS30FDHORX
-20	32	1.1/4	M52 x 2.0	145.0	73.9	60.0	20GS38FDHORX
-24	40	1.1/2	M52 x 2.0	150.0	76.4	60.0	24GSP38FDHORX

-6 to -20 size are 42.0 MPa (6000 psi).

## DIN 24° FDHORX45

Female DIN 'O' ring swivel. 24° cone.  
Heavy series. 45° swept elbow.



↔			🌀	↔	🌀			
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	GS
-6	10	3/8	M20 x 1.5	86.7	50.8	18.9	24.0	6GS12FDHORX45
-6	10	3/8	M22 x 1.5	88.8	53.0	21.0	27.0	6GS14FDHORX45
-8	12	1/2	M24 x 1.5	96.1	58.7	21.6	30.0	8GS16FDHORX45
-10	16	5/8	M30 x 2.0	121.6	71.3	24.9	36.0	10GS20FDHORX45
-12	20	3/4	M30 x 2.0	160.9	109.9	29.8	36.0	12GS20FDHORX45
-12	20	3/4	M36 x 2.0	137.3	86.3	31.2	46.0	12GS25FDHORX45
-16	25	1	M36 x 2.0	159.7	103.3	35.1	46.0	16GS25FDHORX45
-16	25	1	M42 x 2.0	159.7	103.3	35.1	50.0	16GS30FDHORX45
-20	32	1.1/4	M52 x 2.0	196.0	124.9	42.5	60.0	20GS38FDHORX45
-24	40	1.1/2	M52 x 2.0	208.9	135.2	44.0	60.0	24GSP38FDHORX45

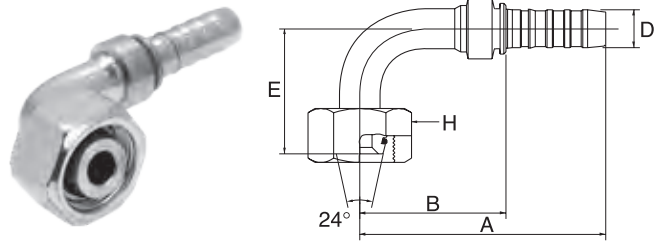
-6 to -20 size are 42.0 MPa (6000 psi).

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

## DIN 24° FDHORX90

Female DIN 'O' ring swivel. 24° cone.  
Heavy series. 90° swept elbow.

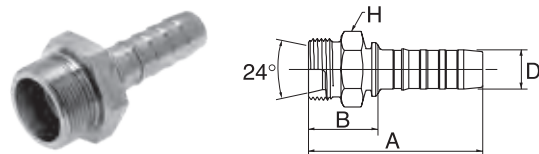


↻			🌀	↔	🔧			
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	GS
-6	10	3/8	M20 x 1.5	78.0	42.2	37.0	24.0	6GS12FDHORX90
-6	10	3/8	M22 x 1.5	78.0	42.2	40.0	27.0	6GS14FDHORX90
-8	12	1/2	M24 x 1.5	88.0	50.5	44.0	30.0	8GS16FDHORX90
-10	16	5/8	M30 x 2.0	112.5	62.2	51.0	36.0	10GS20FDHORX90
-12	20	3/4	M30 x 2.0	126.0	75.0	62.0	36.0	12GS20FDHORX90
-12	20	3/4	M36 x 2.0	126.0	75.0	64.0	46.0	12GS25FDHORX90
-16	25	1	M36 x 2.0	151.0	94.6	76.0	46.0	16GS25FDHORX90
-16	25	1	M42 x 2.0	151.0	94.6	76.0	50.0	16GS30FDHORX90
-20	32	1.1/4	M52 x 2.0	180.5	109.4	87.0	60.0	20GS38FDHORX90
-24	40	1.1/2	M52 x 2.0	194.6	121.0	92.0	60.0	24GSP38FDHORX90

-6 to -20 size are 42.0 MPa (6000 psi).

## DIN 24° MDH

Male DIN parallel. 24° inverted cone.  
Heavy series.



↻			🌀	↔	🔧		
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	GS
-6	10	3/8	M20 x 1.5	63.7	27.9	22.0	6GS12MDH
-6	10	3/8	M22 x 1.5	65.7	29.9	24.0	6GS14MDH
-8	12	1/2	M24 x 1.5	67.5	30.0	27.0	8GS16MDH
-10	16	5/8	M30 x 2.0	85.0	34.7	32.0	10GS20MDH
-12	20	3/4	M30 x 2.0	85.0	34.0	32.0	12GS20MDH
-12	20	3/4	M36 x 2.0	89.0	38.0	41.0	12GS25MDH
-12	20	3/4	M42 x 2.0	95.0	44.0	46.0	12GS30MDH
-16	25	1	M36 x 2.0	97.0	40.2	41.0	16GS25MDH
-16	25	1	M42 x 2.0	99.0	42.2	46.0	16GS30MDH
-20	32	1.1/4	M52 x 2.0	123.0	51.9	55.0	20GS38MDH

-6 to -20 size are 42.0 MPa (6000 psi).

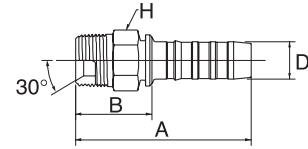
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

THE WORLD OF COUPLINGS

## NPTF MP

Male NPTF pipe.

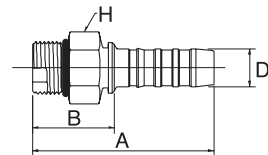


D				A	B	H	REF.
-size	DN	"		mm	mm	mm	GS
-6	10	3/8	3/8" - 18 NPTF	69.0	33.2	17.5	6GS6MP
-6	10	3/8	1/2" - 14 NPTF	73.0	37.2	22.2	6GS8MP
-8	12	1/2	1/2" - 14 NPTF	74.0	36.5	22.2	8GS8MP
-8	12	1/2	3/4" - 14 NPTF	77.0	39.5	27.0	8GS12MP
-10	16	5/8	1/2" - 14 NPTF	87.0	36.7	23.8	10GS8MP
-10	16	5/8	3/4" - 14 NPTF	91.0	40.7	28.6	10GS12MP
-12	20	3/4	3/4" - 14 NPTF	90.0	39.0	27.0	12GS12MP
-12	20	3/4	1" - 11.5 NPTF	97.0	46.0	34.9	12GS16MP
-16	25	1	3/4" - 14 NPTF	101.0	44.2	34.9	16GS12MP
-16	25	1	1" - 11.5 NPTF	106.0	49.2	34.9	16GS16MP
-16	25	1	1.1/4" - 11.5 NPTF	109.0	52.2	44.5	16GS20MP
-20	32	1.1/4	1.1/4" - 11.5 NPTF	127.0	55.9	44.5	20GS20MP
-24	40	1.1/2	1.1/2" - 11.5 NPTF	133.0	59.4	50.8	24GSP24MP
-32	50	2	2" - 11.5 NPTF	153.7	61.7	63.5	32GSP32MP

-6 to -20 size are 42.0 MPa (6000 psi); -24 size is 24.5 MPa (3500 psi); -32 size is 17.5 MPa (2500 psi). / Warning: Use only in NPTF connections. Do not use in oil field (API) connections. Blow apart of an oil field connection can result in serious injuries.

## UNF MB

Male SAE 'O' ring boss. SAE J1926/2. ISO 11926/2 heavy duty (S series).



D				A	B	H	REF.
-size	DN	"		mm	mm	mm	GS
-6	10	3/8	9/16" - 18 UNF	65.0	29.2	17.5	6GS6MB
-8	12	1/2	3/4" - 16 UNF	70.0	32.6	22.2	8GS8MB
-8	12	1/2	7/8" - 14 UNF	72.0	34.5	25.4	8GS10MB
-10	16	5/8	7/8" - 14 UNF	88.0	37.7	25.4	10GS10MB
-10	16	5/8	1.1/16" - 12 UN	88.0	37.7	31.8	10GS12MB
-12	20	3/4	1.1/16" - 12 UN	93.0	42.0	31.8	12GS12MB
-12	20	3/4	1.5/16" - 12 UN	90.0	39.0	38.1	12GS16MB
-16	25	1	1.5/16" - 12 UN	98.0	41.2	38.1	16GS16MB
-20	32	1.1/4	1.5/8" - 12 UN	115.0	43.9	47.6	20GS20MB

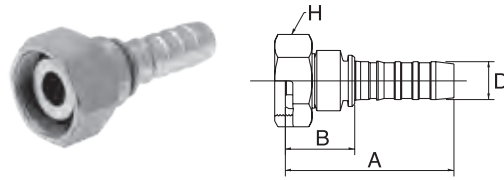
-6 to -20 size are 42.0 MPa (6000 psi).

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

## FG FFGX

Female French Gaz swivel. 24° cone.

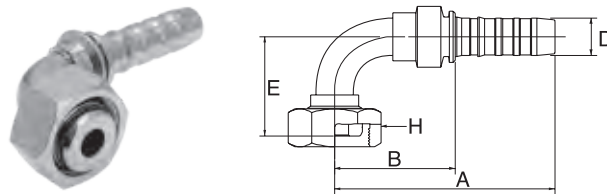


D							
-size	DN	"		A	B	H	REF.
				mm	mm	mm	GS
-8	12	1/2	M24 x 1.5	68.0	30.5	30.0	8GS17FFGX
-10	16	5/8	M30 x 1.5	82.5	32.2	36.0	10GS21FFGX
-12	20	3/4	M36 x 1.5	87.5	36.5	41.0	12GS27FFGX
-16	25	1	M45 x 1.5	95.5	39.1	55.0	16GS34FFGX

-8 to -16 size are 35.0 MPa (5000 psi).

## FG FFGX90

Female French Gaz swivel. 24° cone.  
90° swept elbow.

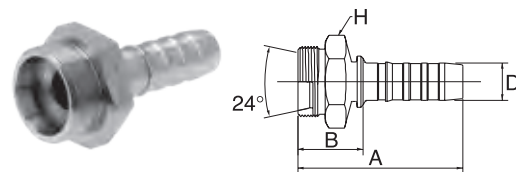


D								
-size	DN	"		A	B	E	H	REF.
				mm	mm	mm	mm	GS
-8	12	1/2	M24 x 1.5	76.1	38.7	37.8	30.0	8GS17FFGX90
-10	16	5/8	M30 x 1.5	92.0	41.7	45.0	36.0	10GS21FFGX90

-8 to -10 size are 35.0 MPa (5000 psi).

## FG MFG

Male French Gaz parallel. 24° inverted cone.



D							
-size	DN	"		A	B	H	REF.
				mm	mm	mm	GS
-8	12	1/2	M24 x 1.5	66.5	29.0	27.0	8GS17MFG
-10	16	5/8	M30 x 1.5	82.0	31.7	32.0	10GS21MFG
-12	20	3/4	M36 x 1.5	84.5	33.5	41.0	12GS27MFG
-16	25	1	M45 x 1.5	94.0	37.2	46.0	16GS34MFG

-8 to -16 size are 35.0 MPa (5000 psi).

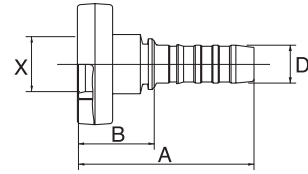
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

THE WORLD OF COUPLINGS

## FG FPFL

Female French Gaz flange high-pressure.  
24° Poclairn inverted cone.

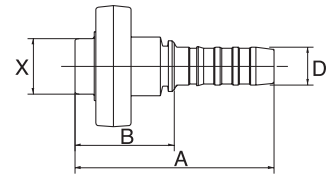


↔			↔			↔
D			X	A	B	REF.
-size	DN	"	mm	mm	mm	GS
-8	12	1/2	17.0	69.0	31.5	8GS17FPFL
-10	16	5/8	21.0	85.0	34.7	10GS21FPFL
-12	20	3/4	27.0	91.0	40.0	12GS27FPFL
-16	25	1	34.0	102.0	45.2	16GS34FPFL
-20	32	1.1/4	42.0	133.0	61.9	20GS42FPFL

-8 to -20 size are 35.0 MPa (5000 psi).

## FG MPFL

Male French Gaz flange high-pressure.  
24° Poclairn cone.



↔			↔			↔
D			X	A	B	REF.
-size	DN	"	mm	mm	mm	GS
-8	12	1/2	17.0	79.0	41.5	8GS17MPFL
-10	16	5/8	21.0	95.0	44.7	10GS21MPFL
-12	20	3/4	27.0	102.0	51.0	12GS27MPFL
-16	25	1	34.0	116.0	59.2	16GS34MPFL
-20	32	1.1/4	42.0	172.0	100.9	20GS42MPFL

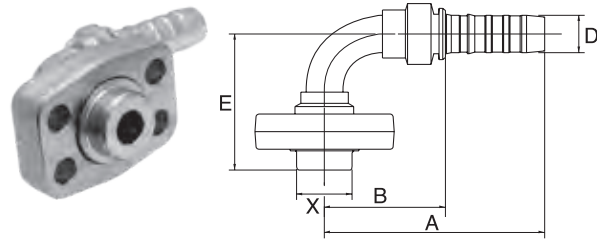
-8 to -20 size are 35.0 MPa (5000 psi).

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

## FG MPFL90

Male French Gaz flange high-pressure.  
24° Poclair cone. 90° swept elbow.

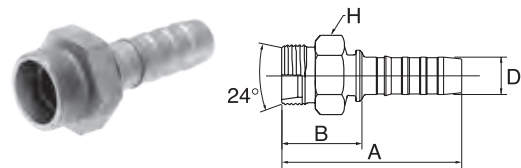


↻			↔				🌀
D			X	A	B	E	REF.
-size	DN	"	mm	mm	mm	mm	GS
-10	16	5/8	21.0	92.0	41.7	57.8	10GS21MPFL90
-12	20	3/4	27.0	100.3	49.3	68.8	12GS27MPFL90
-16	25	1	34.0	126.3	69.5	89.3	16GS34MPFL90
-20	32	1.1/4	42.0	149.9	78.7	89.4	20GS42MPFL90

-10 to -20 size are 35.0 MPa (5000 psi).

## KOBELCO MKB

Male Kobelco type.



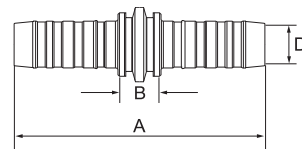
↻			🌀	↔			🌀
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	GS
-12	20	3/4	M30 x 1.5	85.0	34.0	36.0	12GS22MKB
-12	20	3/4	M36 x 1.5	92.0	41.0	41.0	12GS28MKB
-16	25	1	M36 x 1.5	101.0	44.2	50.0	16GS28MKB
-16	25	1	M45 x 1.5	95.0	38.2	50.0	16GS35MKB


Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL HYDRAULIC HOSES GLOBALSPIRAL

THE WORLD OF COUPLINGS

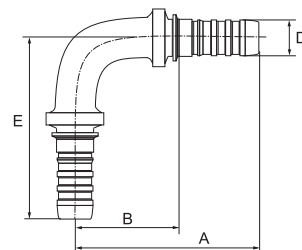
## HLE




↔			↔		
-size	D	"	A	B	REF.
	DN		mm	mm	GS
-8	12	1/2	94.0	19.1	8GS8HLE
-12	20	3/4	163.0	61.0	12GS12HLE
-16	25	1	180.0	66.4	16GS16HLE
-20	32	1.1/4	172.0	29.8	20GS20HLE

## HLE 90

90° swept elbow.



↔			↔			
-size	D	"	A	B	E	REF.
	DN		mm	mm	mm	GS
-8	12	1/2	86.0	48.5	86.0	8GS8HLE90-086
-12	20	3/4	128.8	77.8	128.8	12GS12HLE90-129
-16	25	1	127.0	70.2	127.0	16GS16HLE90-127
-20	32	1.1/4	155.0	83.9	155.0	20GS20HLE90-155

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

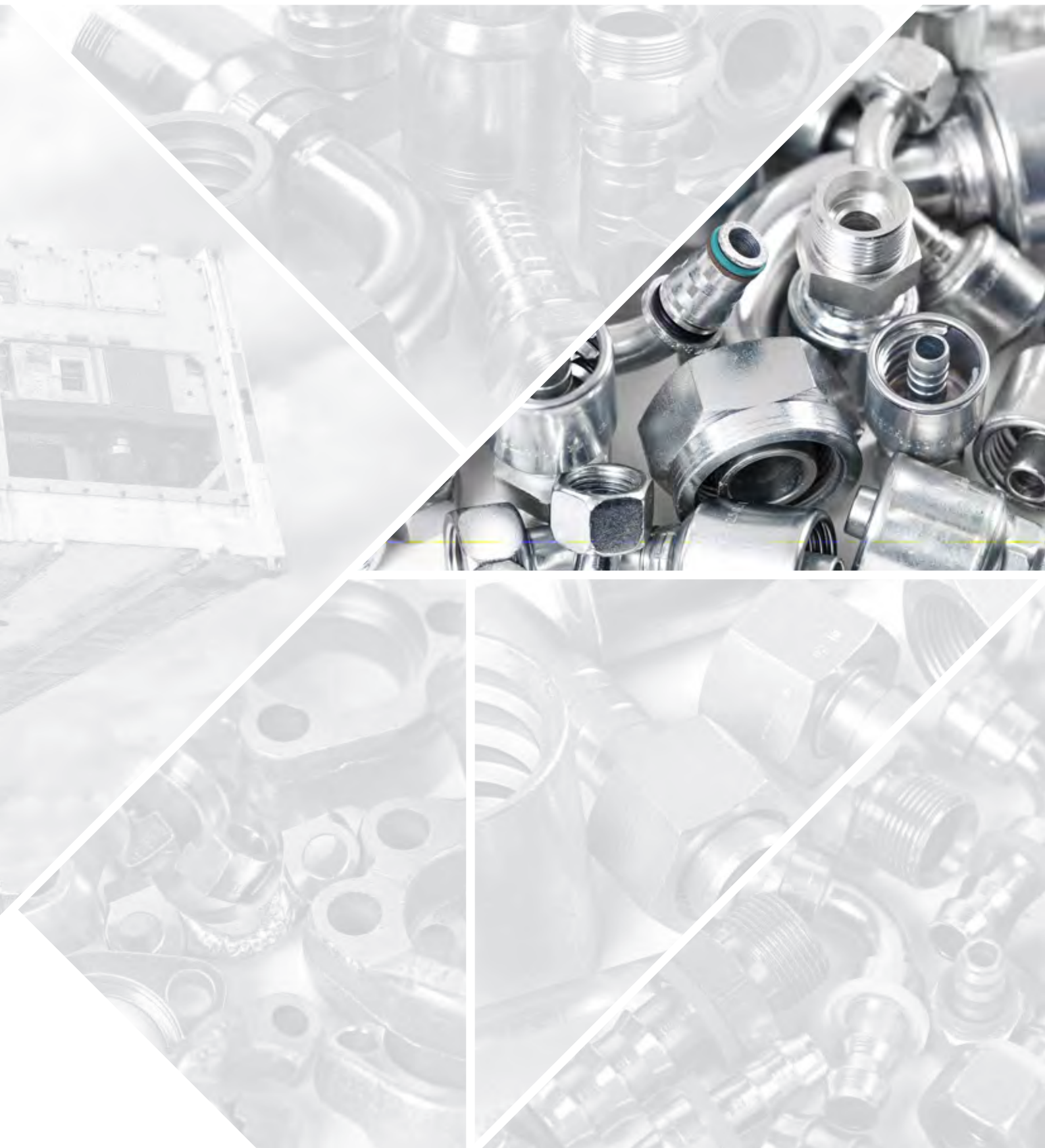




**THE WORLD OF COUPLINGS**  
INTEGRATED FLUID POWER SOLUTIONS



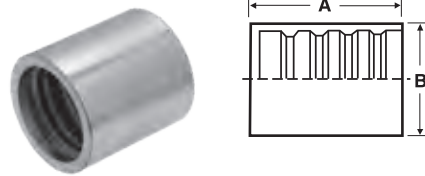
# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES






# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES GLOBALSPIRAL PLUS

THE WORLD OF COUPLINGS

## NO-SKIVE FERRULES

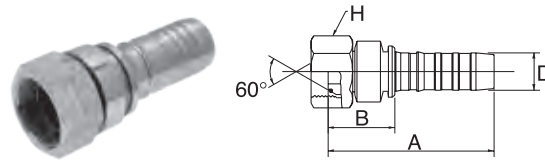






					
D			A	B	REF.
-size	DN	"	mm	mm	GSP
-24	40	1.1/2	75.8	70.0	24GSP1F-2
-32	50	2	90.0	83.5	32GSP1F-2

Note: Use GSP1F-2 only for wire braided hoses. For 6-spiral wire hose use 1-piece GSM coupling.

## BSP FBSPORX

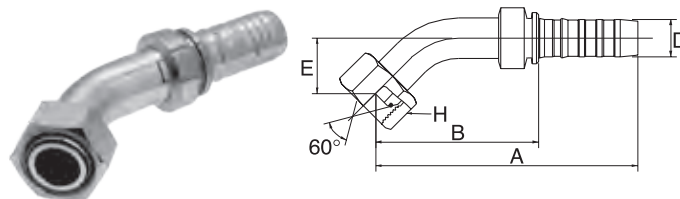
Female BSP 'O' ring swivel. 60° cone.







							
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	GSP
-24	40	1.1/2	G 1.1/2" - 11 BSP	125.0	51.3	55.0	24GSP24FBSPORX
-32	50	2	G 2" - 11 BSP	153.0	61.0	70.0	32GSP32FBSPORX

## BSP FBSPORX45

Female BSP 'O' ring swivel. 60° cone.  
45° swept elbow.



								
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	GSP
-24	40	1.1/2	G 1.1/2" - 11 BSP	214.5	140.9	49.7	55.0	24GSP24FBSPORX45
-32	50	2	G 2" - 11 BSP	276.1	184.1	62.3	70.0	32GSP32FBSPORX45

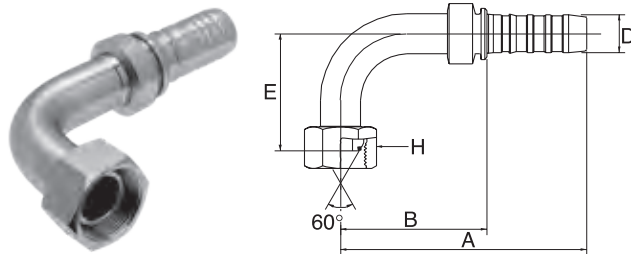
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES

## GLOBALSPIRAL PLUS

### BSP FBSPORX90

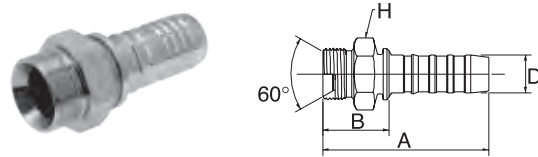
Female BSP 'O' ring swivel. 60° cone. 90° swept elbow.



↻			🌀	↔	🌀			REF.
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	GSP
-24	40	1.1/2	G 1.1/2" - 11 BSP	194.6	121.0	100.0	55.0	24GSP24FBSPORX90
-32	50	2	G 2" - 11 BSP	254.7	162.7	129.1	70.0	32GSP32FBSPORX90

### BSP MBSP

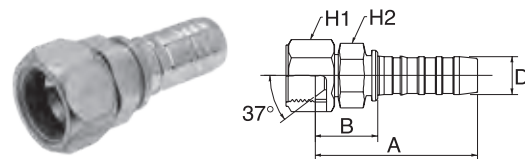
Male BSP parallel. 60° inverted cone.



↻			🌀	↔	🌀			REF.
D				A	B	H	REF.	
-size	DN	"		mm	mm	mm	GSP	
-24	40	1.1/2	G 1.1/2" - 11 BSP	130.0	56.4	55.0	24GSP24MBSP	
-32	50	2	G 2" - 11 BSP	148.8	56.8	70.0	32GSP32MBSP	

### JIC 37° FJX

Female JIC swivel. 37° inverted cone.



↻			🌀	↔	🌀			REF.
D				A	B	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	GSP
-24	40	1.1/2	1.7/8" - 12 UN	124.0	50.4	60.0	55.0	24GSP24FJX
-32	50	2	2.1/2" - 12 UN	148.0	56.0	75.0	65.0	32GSP32FJX

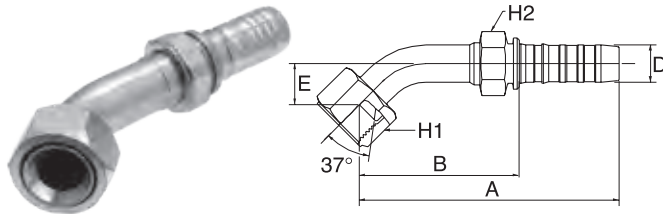
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES GLOBALSPIRAL PLUS

THE WORLD OF COUPLINGS

## JIC 37° FJX45

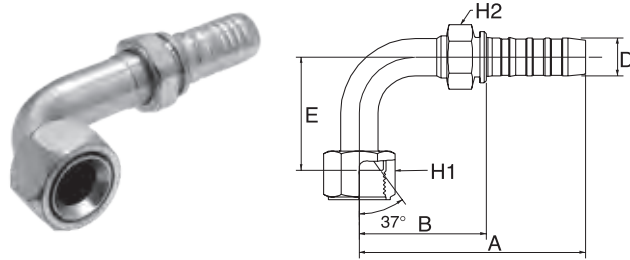
Female JIC swivel. 37° inverted cone.  
45° swept elbow.



D				A	B	E	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	mm	GSP
-24	40	1.1/2	1.7/8" - 12 UN	233.0	159.5	50.0	60.0	55.0	24GSP24FJX45-050
-32	50	2	2.1/2" - 12 UN	267.0	175.5	65.0	75.0	65.0	32GSP32FJX45-065

## JIC 37° FJX90

Female JIC swivel. 37° inverted cone.  
90° swept elbow.

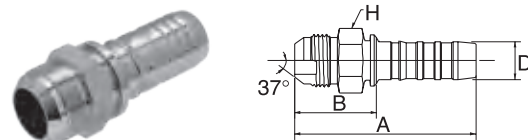


D				A	B	E	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	mm	GSP
-24	40	1.1/2	1.7/8" - 12 UN	212.0	138.4	89.0	60.0	55.0	24GSP24FJX90-089
-32	50	2	2.1/2" - 12 UN	272.0	179.7	140.0	75.0	65.0	32GSP32FJX90M

M: Medium drop per ISO 12151-5.

## JIC 37° MJ

Male JIC parallel. 37° cone.



D				A	B	H	REF.
-size	DN	"		mm	mm	mm	GSP
-24	40	1.1/2	1.7/8" - 12 UN	130.0	56.4	50.0	24GSP24MJ
-32	50	2	2.1/2" - 12 UN	161.1	69.1	65.0	32GSP32MJ

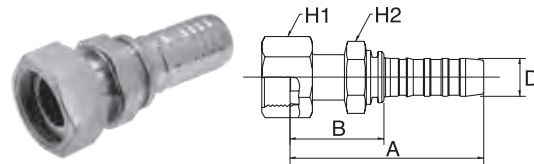
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES

## GLOBALSPIRAL PLUS

### SAE FFORX

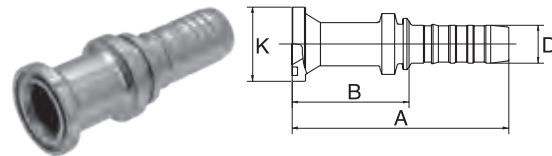
Female SAE flat face 'O' ring swivel.



D				A B H1 H2			REF.	
-size	DN	"		mm	mm	mm	mm	GSP
-24	40	1.1/2	2" - 12 UN	137.0	63.4	60.0	55.0	24GSP24FFORX

### SAE FL

SAE 'O' ring flange. Code 61.

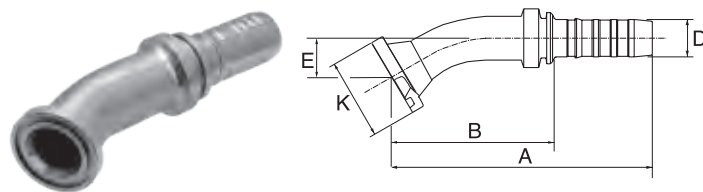


D				A B K			KIT	REF.
-size	DN	"		mm	mm	mm		GSP
-24	40	1.1/2	1.1/2"	152.9	79.3	60.3	24 PA-FL	24GSP24FL
-24	40	1.1/2	2"	152.9	79.3	71.4	32 PA-FL	24GSP32FL
-32	50	2	2"	159.3	67.3	71.4	32 PA-FL	32GSP32FL

Details on flange kits see page 292.

### SAE FL30

SAE 'O' ring flange. Code 61.  
30° swept elbow.



D				A B E K				KIT	REF.
-size	DN	"		mm	mm	mm	mm		GSP
-24	40	1.1/2	1.1/2"	209.0	135.2	25.0	60.3	24 PA-FL	24GSP24FL30S

Details on flange kits see page 292. / S: Short drop per ISO 12151-3.

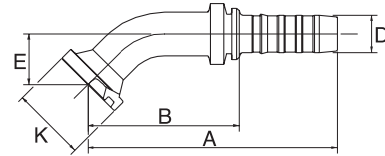
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES GLOBALSPIRAL PLUS

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## SAE FL45

SAE 'O' ring flange. Code 61.  
45° swept elbow.

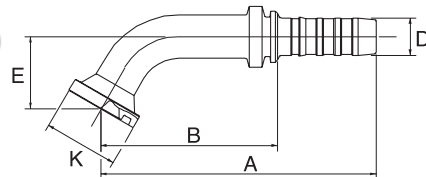


D			A B E K				KIT	REF.	
-size	DN	"	mm	mm	mm	mm	GSP		
-24	40	1.1/2	1.1/2"	202.0	128.6	38.0	60.3	24 PA-FL	24GSP24FL45S
-24	40	1.1/2	2"	200.0	126.3	52.0	71.4	32 PA-FL	24GSP32FL45S
-32	50	2	2"	257.0	165.0	66.0	71.4	32 PA-FL	32GSP32FL45-066

Details on flange kits see page 292. / S: Short drop per ISO 12151-3.

## SAE FL60

SAE 'O' ring flange. Code 61.  
60° swept elbow.

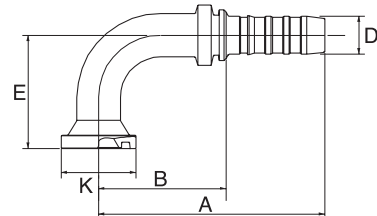


D			A B E K				KIT	REF.	
-size	DN	"	mm	mm	mm	mm	GSP		
-24	40	1.1/2	1.1/2"	231.0	157.5	53.0	60.3	24 PA-FL	24GSP24FL60S

Details on flange kits see page 292. / S: Short drop per ISO 12151-3.

## SAE FL90

SAE 'O' ring flange. Code 61.  
90° swept elbow.



D			A B E K				KIT	REF.	
-size	DN	"	mm	mm	mm	mm	GSP		
-24	40	1.1/2	1.1/2"	184.0	109.9	81.0	60.3	24 PA-FL	24GSP24FL90S
-24	40	1.1/2	2"	175.0	101.9	80.0	71.4	32 PA-FL	24GSP32FL90-080
-32	50	2	2"	222.0	130.1	114.0	71.4	32 PA-FL	32GSP32FL90-114

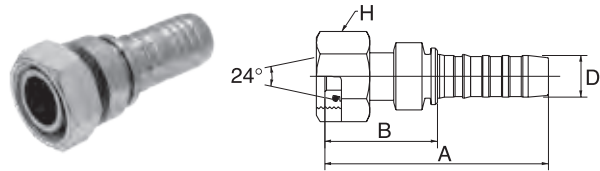
Details on flange kits see page 292. / S: Short drop per ISO 12151-3.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES GLOBALSPIRAL PLUS

## DIN 24° FDLORX

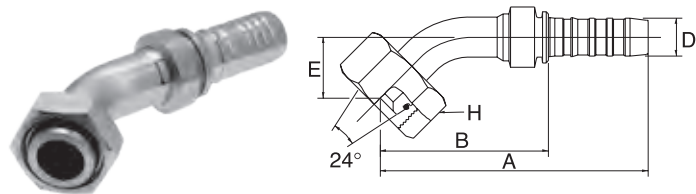
Female DIN 'O' ring swivel. 24° cone.  
Light series.



D			M52 x 2.0	A	B	H	REF.
-size	DN	"					
-24	40	1.1/2	M52 x 2.0	135.7	62.0	60.0	24GSP42FDLORX

## DIN 24° FDLORX45

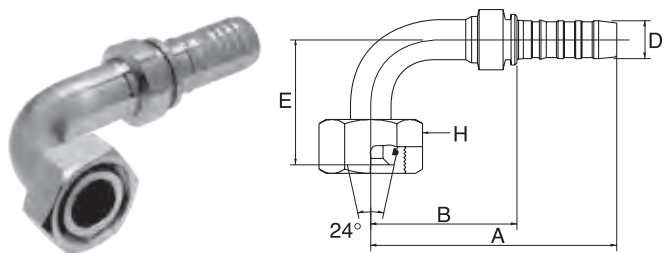
Female DIN 'O' ring swivel. 24° cone.  
Light series. 45° swept elbow.



D			M52 x 2.0	A	B	E	H	REF.
-size	DN	"						
-24	40	1.1/2	M52 x 2.0	208.9	135.2	44.0	60.0	24GSP42FDLORX45

## DIN 24° FDLORX90

Female DIN 'O' ring swivel. 24° cone.  
Light series. 90° swept elbow.



D			M52 x 2.0	A	B	E	H	REF.
-size	DN	"						
-24	40	1.1/2	M52 x 2.0	194.6	120.9	92.0	60.0	24GSP42FDLORX90

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

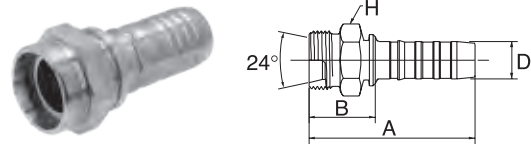


# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES GLOBALSPIRAL PLUS

THE WORLD OF COUPLINGS

## DIN 24° MDL

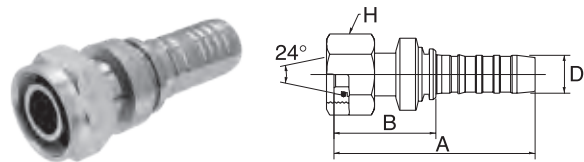
Male DIN parallel. 24° inverted cone.  
Light series.



D			M52 x 2.0	A B H			REF. GSP
-size	DN	"		mm	mm	mm	
-24	40	1.1/2	M52 x 2.0	120.0	46.4	55.0	24GSP42MDL

## DIN 24° FDHORX

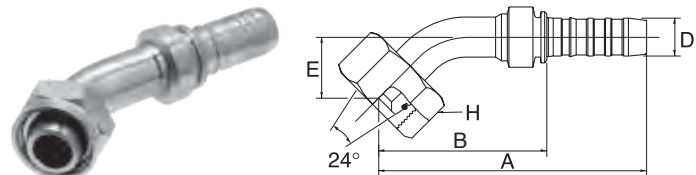
Female DIN 'O' ring swivel. 24° cone.  
Heavy series.



D			M52 x 2.0	A B H			REF. GSP
-size	DN	"		mm	mm	mm	
-24	40	1.1/2	M52 x 2.0	150.0	76.4	60.0	24GSP38FDHORX

## DIN 24° FDHORX45

Female DIN 'O' ring swivel. 24° cone.  
Heavy series. 45° swept elbow.



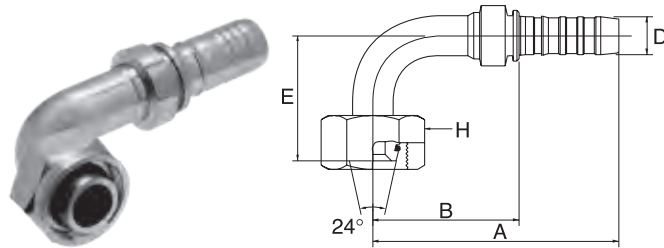
D			M52 x 2.0	A B E H			REF. GSP	
-size	DN	"		mm	mm	mm		mm
-24	40	1.1/2	M52 x 2.0	208.9	135.2	44.0	60.0	24GSP38FDHORX45

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES GLOBALSPIRAL PLUS

## DIN 24° FDHORX90

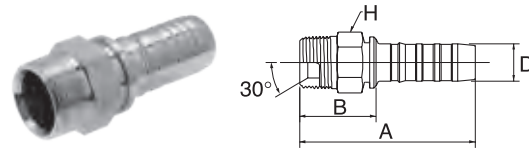
Female DIN 'O' ring swivel. 24° cone.  
Heavy series. 90° swept elbow.



↻			🌀	↔	🌀			REF.
-size	DN	"		A	B	E	H	GSP
-24	40	1.1/2	M52 x 2.0	194.6	121.0	92.0	60.0	24GSP38FDHORX90

## NPTF MP

Male NPTF pipe.



↻			🌀	↔	🌀			REF.
-size	DN	"		A	B	H	GSP	
-24	40	1.1/2	1.1/2" - 11.5 NPTF	133.0	59.4	50.8	24GSP24MP	
-32	50	2	2" - 11.5 NPTF	153.7	61.7	63.5	32GSP32MP	

Warning: Use only in NPTF connections. Do not use in oil field (API) connections. Blow apart of an oil field connection can result in serious injuries.

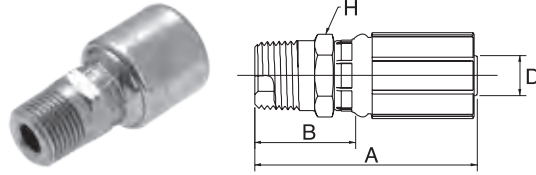
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## BSP MBSPT

Male BSP taper.



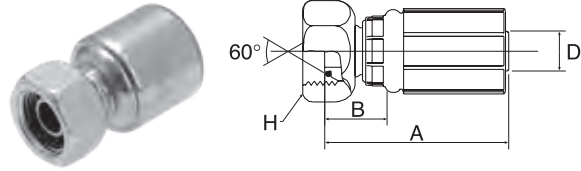
↔			🌀	↔	🌀		
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	G
-4	6	1/4	R 1/4" - 19 BSP	50.9	24.8	14.0	4G4MBSPT
-4	6	1/4	R 3/8" - 19 BSP	52.0	26.0	19.0	4G6MBSPT
-5	8	5/16	R 3/8" - 19 BSP	54.1	26.1	19.0	5G6MBSPT
-6	10	3/8	R 3/8" - 19 BSP	54.0	26.1	19.0	6G6MBSPT
-6	10	3/8	R 1/2" - 14 BSP	58.8	30.9	22.0	6G8MBSPT
-8	12	1/2	R 3/8" - 19 BSP	64.5	27.0	22.0	8G6MBSPT
-8	12	1/2	R 1/2" - 14 BSP	68.4	30.9	22.0	8G8MBSPT
-10	16	5/8	R 5/8" - 14 BSP	70.0	32.5	24.0	10G10MBSPT
-12	20	3/4	R 3/4" - 14 BSP	89.0	38.0	32.0	12G12MBSPT
-16	25	1	R 1" - 11 BSP	98.4	41.6	36.0	16G16MBSPT





Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## BSP FBSPORX

Female BSP 'O' ring swivel. 60° cone.



							
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	G
-4	6	1/4	G 1/8" - 28 BSP	41.1	18.0	14.0	4G2FBSPX (1)
-4	6	1/4	G 1/4" - 19 BSP	43.0	17.0	19.0	4G4FBSPORX
-4	6	1/4	G 3/8" - 19 BSP	44.0	18.0	22.0	4G6FBSPORX
-5	8	5/16	G 3/8" - 19 BSP	46.0	18.0	22.0	5G6FBSPORX
-5	8	5/16	G 1/2" - 14 BSP	46.0	18.0	27.0	5G8FBSPORX
-6	10	3/8	G 3/8" - 19 BSP	44.1	16.2	22.0	6G6FBSPORX
-6	10	3/8	G 1/2" - 14 BSP	45.8	17.9	27.0	6G8FBSPORX
-8	12	1/2	G 3/8" - 19 BSP	59.2	21.7	22.0	8G6FBSPORX
-8	12	1/2	G 1/2" - 14 BSP	55.3	17.8	27.0	8G8FBSPORX
-8	12	1/2	G 5/8" - 14 BSP	57.2	19.7	30.0	8G10FBSPORX
-8	12	1/2	G 3/4" - 14 BSP	59.0	21.5	32.0	8G12FBSPORX
-10	16	5/8	G 5/8" - 14 BSP	56.0	18.5	30.0	10G10FBSPORX
-10	16	5/8	G 3/4" - 14 BSP	58.0	20.5	32.0	10G12FBSPORX
-12	20	3/4	G 3/4" - 14 BSP	71.6	20.6	32.0	12G12FBSPORX
-12	20	3/4	G 1" - 11 BSP	73.3	22.3	41.0	12G16FBSPORX
-16	25	1	G 3/4" - 14 BSP	82.7	25.9	32.0	16G12FBSPORX
-16	25	1	G 1" - 11 BSP	83.8	27.0	41.0	16G16FBSPORX
-20	32	1.1/4	G 1.1/4" - 11 BSP	88.5	29.5	50.0	20G20FBSPORX

(1) without 'O' ring.

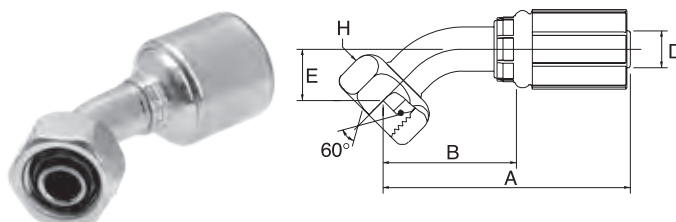
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## BSP FBSPORX45

Female BSP 'O' ring swivel. 60° cone.  
45° swept elbow.



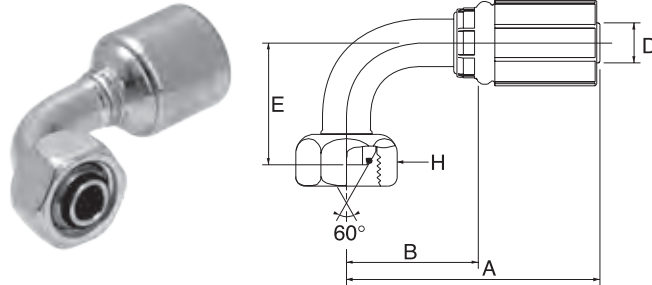
↻			🌀	↔				📏
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	G 1/4" - 19 BSP	57.7	31.6	11.7	19.0	4G4FBSPORX45
-4	6	1/4	G 3/8" - 19 BSP	63.8	37.8	17.8	22.0	4G6FBSPORX45
-5	8	5/16	G 3/8" - 19 BSP	66.6	38.6	16.8	22.0	5G6FBSPORX45
-6	10	3/8	G 3/8" - 19 BSP	67.1	39.1	15.4	22.0	6G6FBSPORX45
-6	10	3/8	G 1/2" - 14 BSP	71.0	43.0	19.3	22.0	6G8FBSPORX45
-8	12	1/2	G 1/2" - 14 BSP	81.5	44.0	17.0	27.0	8G8FBSPORX45
-8	12	1/2	G 5/8" - 14 BSP	89.8	52.3	23.0	30.0	8G10FBSPORX45
-10	16	5/8	G 5/8" - 14 BSP	89.6	52.1	21.3	30.0	10G10FBSPORX45
-10	16	5/8	G 3/4" - 14 BSP	99.5	62.0	31.2	32.0	10G12FBSPORX45
-12	20	3/4	G 3/4" - 14 BSP	115.4	64.4	28.3	32.0	12G12FBSPORX45
-16	25	1	G 1" - 11 BSP	135.6	78.8	30.9	41.0	16G16FBSPORX45
-20	32	1.1/4	G 1.1/4" - 11 BSP	161.9	102.9	37.5	50.0	20G20FBSPORX45

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## BSP FBSPORX90

Female BSP 'O' ring swivel. 60° cone.  
90° swept elbow.



↔			🌀	↔				🌀
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	G 1/4" - 19 BSP	53.0	27.0	23.5	19.0	4G4FBSPORX90
-4	6	1/4	G 3/8" - 19 BSP	53.0	27.0	32.0	22.0	4G6FBSPORX90
-5	8	5/16	G 3/8" - 19 BSP	58.0	30.0	32.0	22.0	5G6FBSPORX90
-6	10	3/8	G 3/8" - 19 BSP	61.9	34.0	32.0	22.0	6G6FBSPORX90
-6	10	3/8	G 1/2" - 14 BSP	60.1	32.2	37.5	22.0	6G8FBSPORX90
-8	12	1/2	G 1/2" - 14 BSP	78.0	40.5	37.5	27.0	8G8FBSPORX90
-8	12	1/2	G 5/8" - 14 BSP	80.2	42.8	46.0	30.0	8G10FBSPORX90
-10	16	5/8	G 5/8" - 14 BSP	84.1	46.6	46.0	30.0	10G10FBSPORX90
-10	16	5/8	G 3/4" - 14 BSP	84.1	46.6	60.0	32.0	10G12FBSPORX90
-12	20	3/4	G 3/4" - 14 BSP	107.0	56.0	60.0	32.0	12G12FBSPORX90
-12	20	3/4	G 1" - 11 BSP	112.2	61.2	70.0	41.0	12G16FBSPORX90
-16	25	1	G 3/4" - 14 BSP	108.8	52.0	54.1	32.0	16G12FBSPORX90
-16	25	1	G 1" - 11 BSP	131.1	74.3	70.0	41.0	16G16FBSPORX90
-20	32	1.1/4	G 1.1/4" - 11 BSP	151.4	92.4	80.0	50.0	20G20FBSPORX90

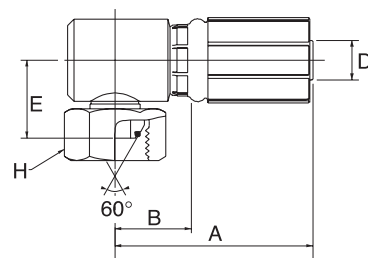
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.





# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## BSP FBSPORX90BL

Female BSP 'O' ring swivel. 60° cone.  
90° block elbow.



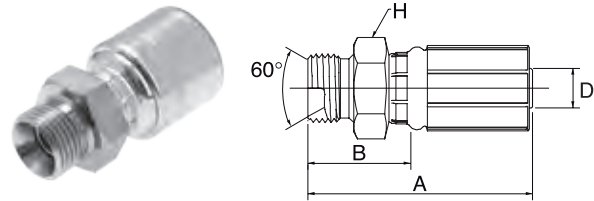
								
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	G 1/4" - 19 BSP	44.2	18.2	18.0	19.0	4G4FBSPORX90BL
-4	6	1/4	G 3/8" - 19 BSP	46.0	20.0	21.5	22.0	4G6FBSPORX90BL
-6	10	3/8	G 3/8" - 19 BSP	47.9	20.0	21.5	22.0	6G6FBSPORX90BL
-6	10	3/8	G 1/2" - 14 BSP	51.4	23.5	24.0	27.0	6G8FBSPORX90BL
-8	12	1/2	G 1/2" - 14 BSP	55.9	23.5	24.0	27.0	8G8FBSPORX90BL
-8	12	1/2	G 5/8" - 14 BSP	55.9	23.5	25.2	30.0	8G10FBSPORX90BL
-10	16	5/8	G 5/8" - 14 BSP	62.4	24.9	27.6	30.0	10G10FBSPORX90BL
-12	20	3/4	G 3/4" - 14 BSP	78.0	27.0	34.5	32.0	12G12FBSPORX90BL
-16	25	1	G 3/4" - 14 BSP	86.2	29.4	37.8	32.0	16G12FBSPORX90BL
-16	25	1	G 1" - 11 BSP	80.5	34.6	36.1	41.0	16G16FBSPORX90BL

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## BSP MBSPP

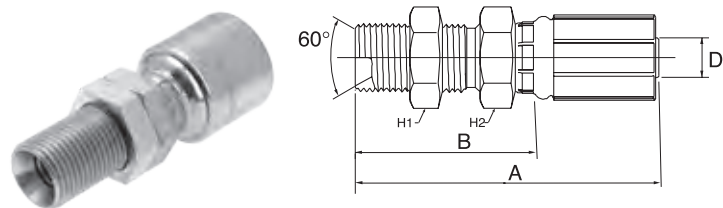
Male BSP parallel. 60° inverted cone.



↔			🌀	↔	↔			🌀
D				A	B	H	REF.	
-size	DN	"		mm	mm	mm	G	
-4	6	1/4	G 1/4" - 19 BSP	51.5	25.5	19.0	4G4MBSPP	
-4	6	1/4	G 3/8" - 19 BSP	48.9	25.8	22.0	4G6MBSPP	
-4	6	1/4	G 1/2" - 14 BSP	56.6	33.5	27.0	4G8MBSPP	
-5	8	5/16	G 1/4" - 19 BSP	49.4	25.5	19.0	5G4MBSPP	
-5	8	5/16	G 3/8" - 19 BSP	49.7	25.8	22.0	5G6MBSPP	
-6	10	3/8	G 1/4" - 19 BSP	52.0	24.1	19.0	6G4MBSPP	
-6	10	3/8	G 3/8" - 19 BSP	55.0	27.1	22.0	6G6MBSPP	
-6	10	3/8	G 1/2" - 14 BSP	60.0	32.1	27.0	6G8MBSPP	
-8	12	1/2	G 3/8" - 19 BSP	58.5	26.0	22.0	8G6MBSPP	
-8	12	1/2	G 1/2" - 14 BSP	69.0	31.5	27.0	8G8MBSPP	
-8	12	1/2	G 5/8" - 14 BSP	71.0	33.5	30.0	8G10MBSPP	
-10	16	5/8	G 5/8" - 14 BSP	72.0	34.5	30.0	10G10MBSPP	
-10	16	5/8	G 3/4" - 14 BSP	74.0	36.5	32.0	10G12MBSPP	
-12	20	3/4	G 3/4" - 14 BSP	90.0	39.0	32.0	12G12MBSPP	
-16	25	1	G 1" - 11 BSP	101.0	44.2	41.0	16G16MBSPP	
-20	32	1.1/4	G 1" - 11 BSP	104.5	45.5	46.0	20G16MBSPP	
-20	32	1.1/4	G 1.1/4" - 11 BSP	110.0	51.0	50.0	20G20MBSPP	

## BSP MBSPPBKHD

Male BSP parallel.  
60° inverted cone [Bulkhead].



↔			🌀	↔	↔			🌀
D				A	B	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	G 1/4" - 19 BSP	69.0	43.0	19.0	19.0	4G4MBSPPBKHD
-6	10	3/8	G 3/8" - 19 BSP	75.0	47.1	22.0	22.0	6G6MBSPPBKHD
-8	12	1/2	G 1/2" - 14 BSP	88.5	51.0	27.0	27.0	8G8MBSPPBKHD
-10	16	5/8	G 5/8" - 14 BSP	93.0	55.5	30.0	30.0	10G10MBSPPBKHD
-12	20	3/4	G 3/4" - 14 BSP	109.0	58.0	32.0	32.0	12G12MBSPPBKHD
-16	25	1	G 1" - 11 BSP	121.2	64.4	41.0	41.0	16G16MBSPPBKHD

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

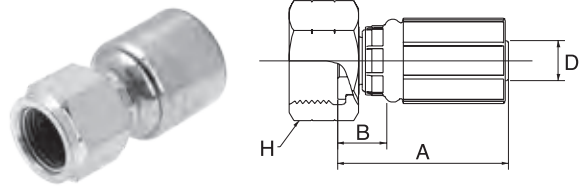


# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## BSP FBFFX

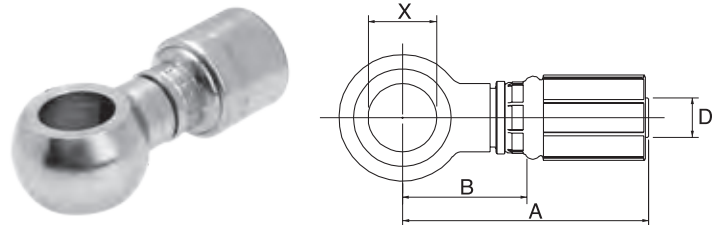
Female BSP flat face swivel.



↻			🌀	↔	🌀		REF.
-size	DN	"		A	B	H	G
				mm	mm	mm	
-5	8	5/16	G 1/2" - 14 BSP	45.5	17.5	27.0	5G8FBFFX
-6	10	3/8	G 3/8" - 19 BSP	44.5	16.6	22.0	6G6FBFFX
-6	10	3/8	G 1/2" - 14 BSP	44.0	16.1	27.0	6G8FBFFX
-8	12	1/2	G 1/2" - 14 BSP	53.5	16.0	27.0	8G8FBFFX
-8	12	1/2	G 5/8" - 14 BSP	54.0	16.5	30.0	8G10FBFFX
-8	12	1/2	G 3/4" - 14 BSP	51.5	14.0	32.0	8G12FBFFX
-10	16	5/8	G 3/4" - 14 BSP	52.0	14.5	32.0	10G12FBFFX
-12	20	3/4	G 3/4" - 14 BSP	65.5	14.5	32.0	12G12FBFFX

## BSP BSPBJ

BSP banjo.



↻			🌀	↔	🌀		REF.
-size	DN	"		A	B	X	G
				mm	mm	mm	
-4	6	1/4	1/4" - BSP	56.0	30.0	13.2	4G4BSPBJ
-4	6	1/4	3/8" - BSP	58.3	32.3	16.8	4G6BSPBJ
-6	10	3/8	1/4" - BSP	58.5	30.6	13.2	6G4BSPBJ
-6	10	3/8	3/8" - BSP	60.0	32.1	16.9	6G6BSPBJ
-6	10	3/8	1/2" - BSP	62.7	34.8	21.0	6G8BSPBJ
-8	12	1/2	1/2" - BSP	75.7	38.2	21.0	8G8BSPBJ
-12	20	3/4	3/4" - BSP	94.7	43.7	26.5	12G12BSPBJ

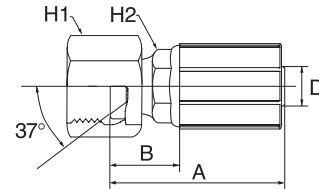
-4 to -12 size are 10.0 MPa (1450 psi).





Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## JIC 37° FJX

Female JIC swivel. 37° inverted cone.



								
D				A	B	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	7/16" - 20 UNF	49.0	23.0	14.0	15.0	4G4FJX
-4	6	1/4	1/2" - 20 UNF	50.0	24.0	15.0	17.0	4G5FJX
-4	6	1/4	9/16" - 18 UNF	51.2	25.2	19.0	15.0	4G6FJX
-5	8	5/16	1/2" - 20 UNF	55.1	28.6	17.0	17.0	5G5FJX
-5	8	5/16	9/16" - 18 UNF	55.1	28.6	19.0	17.0	5G6FJX
-6	10	3/8	7/16" - 20 UNF	74.7	46.8	14.0	15.9	6G4FJX
-6	10	3/8	1/2" - 20 UNF	75.2	47.3	17.0	17.0	6G5FJX
-6	10	3/8	9/16" - 18 UNF	53.0	24.2	19.0	18.0	6G6FJX
-6	10	3/8	3/4" - 16 UNF	56.3	27.5	24.0	18.0	6G8FJX
-6	10	3/8	7/8" - 14 UNF	56.4	27.6	27.0	18.0	6G10FJX
-8	12	1/2	9/16" - 18 UNF	88.1	50.6	19.0	22.0	8G6FJX
-8	12	1/2	3/4" - 16 UNF	62.8	27.3	24.0	22.0	8G8FJX
-8	12	1/2	7/8" - 14 UNF	62.8	27.3	27.0	22.0	8G10FJX
-8	12	1/2	1.1/16" - 12 UN	62.8	27.3	32.0	22.0	8G12FJX
-10	16	5/8	3/4" - 16 UNF	92.6	55.1	24.0	24.0	10G8FJX
-10	16	5/8	7/8" - 14 UNF	66.0	28.5	27.0	24.0	10G10FJX
-10	16	5/8	1.1/16" - 12 UN	66.4	28.9	31.8	24.0	10G12FJX
-10	16	5/8	1.3/16" - 12 UN	70.0	32.5	36.0	24.0	10G14FJX
-12	20	3/4	7/8" - 14 UNF	122.0	71.0	27.0	27.0	12G10FJX
-12	20	3/4	1.1/16" - 12 UN	80.0	29.0	32.0	30.0	12G12FJX
-12	20	3/4	1.3/16" - 12 UN	80.8	29.8	36.0	30.0	12G14FJX
-12	20	3/4	1.5/16" - 12 UN	81.1	30.1	41.0	30.0	12G16FJX
-16	25	1	1.1/16" - 12 UN	135.9	79.2	32.0	36.0	16G12FJX
-16	25	1	1.3/16" - 12 UN	146.0	89.2	36.0	36.0	16G14FJX
-16	25	1	1.5/16" - 12 UN	91.0	34.2	41.0	36.0	16G16FJX
-16	25	1	1.5/8" - 12 UN	99.0	42.2	50.0	36.0	16G20FJX
-20	32	1.1/4	1.5/8" - 12 UN	96.0	37.0	50.0	41.0	20G20FJX
-20	32	1.1/4	1.7/8" - 12 UN	104.0	45.0	60.0	41.0	20G24FJX

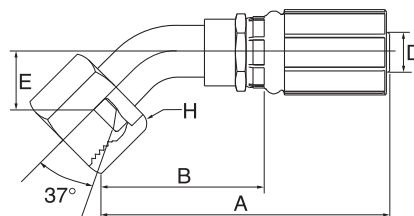
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.





# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## JIC 37° FJX45

Female JIC swivel. 37° inverted cone.  
45° swept elbow.



								
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	7/16" - 20 UNF	69.7	43.7	10.0	14.0	4G4FJX45S
-4	6	1/4	1/2" - 20 UNF	65.8	39.7	11.0	17.0	4G5FJX45-011
-4	6	1/4	9/16" - 18 UNF	68.3	42.3	11.0	19.0	4G6FJX45S
-5	8	5/16	1/2" - 20 UNF	68.3	40.3	11.0	17.0	5G5FJX45-011
-5	8	5/16	9/16" - 18 UNF	72.4	44.4	11.0	19.0	5G6FJX45S
-6	10	3/8	7/16" - 20 UNF	72.7	44.8	10.0	14.0	6G4FJX45S
-6	10	3/8	9/16" - 18 UNF	77.5	49.6	11.0	19.0	6G6FJX45S
-6	10	3/8	3/4" - 16 UNF	89.1	61.2	15.0	24.0	6G8FJX45S
-8	12	1/2	3/4" - 16 UNF	86.9	49.5	15.0	24.0	8G8FJX45S
-8	12	1/2	7/8" - 14 UNF	96.8	59.4	16.0	27.0	8G10FJX45S
-10	16	5/8	7/8" - 14 UNF	96.4	59.0	16.0	27.0	10G10FJX45S
-10	16	5/8	1.1/16" - 12 UN	115.7	78.2	21.0	32.0	10G12FJX45S
-12	20	3/4	7/8" - 14 UNF	116.3	65.3	19.0	27.0	12G10FJX45S
-12	20	3/4	1.1/16" - 12 UN	128.2	77.2	21.0	32.0	12G12FJX45S
-12	20	3/4	1.5/16" - 12 UN	133.1	82.1	24.0	41.0	12G16FJX45S
-16	25	1	1.5/16" - 12 UN	144.3	87.5	24.0	41.0	16G16FJX45S
-20	32	1.1/4	1.5/8" - 12 UN	169.0	110.0	35.0	50.0	20G20FJX45-035

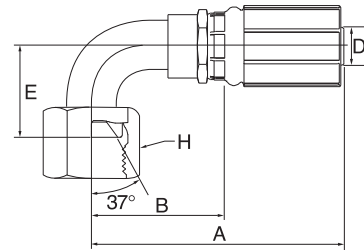
S: Short drop per ISO 12151-5.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## JIC 37° FJX90S

Female JIC swivel. 37° inverted cone.  
90° swept elbow. Short drop.



↻			🌀	↔				📏
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	7/16" - 20 UNF	63.1	37.1	21.0	14.0	4G4FJX90S
-4	6	1/4	1/2" - 20 UNF	62.2	36.2	23.0	17.0	4G5FJX90-023
-4	6	1/4	9/16" - 18 UNF	71.2	45.1	23.0	19.0	4G6FJX90S
-5	8	5/16	9/16" - 18 UNF	75.2	47.2	23.0	19.0	5G6FJX90S
-6	10	3/8	7/16" - 20 UNF	66.1	38.2	21.0	14.0	6G4FJX90S
-6	10	3/8	9/16" - 18 UNF	78.6	50.7	23.0	19.0	6G6FJX90S
-6	10	3/8	3/4" - 16 UNF	80.7	52.8	29.0	24.0	6G8FJX90S
-8	12	1/2	9/16" - 18 UNF	89.6	52.1	23.0	19.0	8G6FJX90S
-8	12	1/2	3/4" - 16 UNF	81.0	43.6	29.0	24.0	8G8FJX90S
-8	12	1/2	7/8" - 14 UNF	93.3	55.8	32.0	27.0	8G10FJX90S
-8	12	1/2	1.1/16" - 12 UN	108.7	71.2	48.0	32.0	8G12FJX90S
-10	16	5/8	7/8" - 14 UNF	89.0	51.5	36.0	27.0	10G10FJX90-036
-10	16	5/8	1.1/16" - 12 UN	107.3	69.8	48.0	32.0	10G12FJX90S
-12	20	3/4	1.1/16" - 12 UN	121.2	70.2	48.0	32.0	12G12FJX90S
-12	20	3/4	1.3/16" - 12 UN	124.0	73.0	54.0	36.0	12G14FJX90-054
-12	20	3/4	1.5/16" - 12 UN	132.7	81.7	56.0	41.0	12G16FJX90S
-16	25	1	1.5/16" - 12 UN	145.6	88.8	56.0	41.0	16G16FJX90S
-16	25	1	1.5/8" - 12 UN	157.0	100.2	64.0	50.0	16G20FJX90S

S: Short drop per ISO 12151-5.

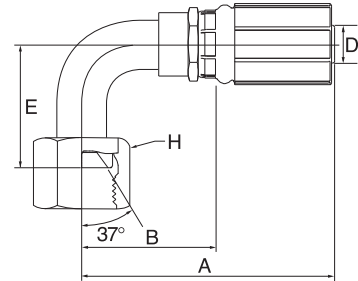
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## JIC 37° FJX90M

Female JIC swivel. 37° inverted cone.  
90° swept elbow. Medium drop.



↻			🌀	↔				🔧
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	7/16" - 20 UNF	63.1	37.1	32.0	14.0	4G4FJX90M
-4	6	1/4	1/2" - 20 UNF	57.2	31.2	32.0	17.0	4G5FJX90M
-4	6	1/4	9/16" - 18 UNF	64.9	38.9	38.0	19.0	4G6FJX90M
-5	8	5/16	1/2" - 20 UNF	64.6	36.6	32.0	17.0	5G5FJX90M
-5	8	5/16	9/16" - 18 UNF	76.0	48.0	38.0	19.0	5G6FJX90M
-6	10	3/8	9/16" - 18 UNF	76.5	48.5	38.0	19.0	6G6FJX90M
-6	10	3/8	3/4" - 16 UNF	84.1	56.2	41.0	24.0	6G8FJX90M
-6	10	3/8	7/8" - 14 UNF	82.5	54.6	47.0	27.0	6G10FJX90M
-8	12	1/2	3/4" - 16 UNF	77.3	39.9	41.0	24.0	8G8FJX90M
-8	12	1/2	7/8" - 14 UNF	93.3	55.8	47.0	27.0	8G10FJX90M
-10	16	5/8	7/8" - 14 UNF	93.4	55.9	47.0	27.0	10G10FJX90M
-10	16	5/8	1.1/16" - 12 UN	102.3	64.8	58.0	32.0	10G12FJX90M
-12	20	3/4	7/8" - 14 UNF	114.1	63.1	47.0	27.0	12G10FJX90M
-12	20	3/4	1.1/16" - 12 UN	120.2	69.2	58.0	32.0	12G12FJX90M
-16	25	1	1.5/16" - 12 UN	120.2	63.4	71.0	41.0	16G16FJX90M
-20	32	1.1/4	1.5/8" - 12 UN	159.0	100.0	78.0	50.0	20G20FJX90M

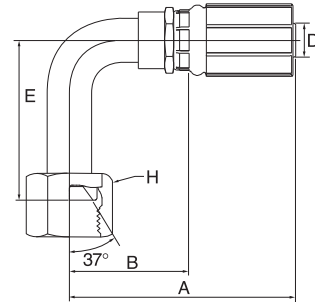
M: Medium drop per ISO 12151-5.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## JIC 37° FJX90L

Female JIC swivel. 37° inverted cone.  
90° swept elbow. Long drop.



D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	7/16" - 20 UNF	63.1	37.1	46.0	14.0	4G4FJX90L
-4	6	1/4	1/2" - 20 UNF	57.2	31.2	46.0	17.0	4G5FJX90L
-4	6	1/4	9/16" - 18 UNF	69.3	43.2	54.0	19.0	4G6FJX90L
-6	10	3/8	7/16" - 20 UNF	60.2	32.3	46.0	14.0	6G4FJX90L
-6	10	3/8	9/16" - 18 UNF	70.6	42.7	54.0	19.0	6G6FJX90L
-6	10	3/8	3/4" - 16 UNF	84.5	56.6	64.0	24.0	6G8FJX90L
-8	12	1/2	3/4" - 16 UNF	77.3	39.9	64.0	24.0	8G8FJX90L
-8	12	1/2	7/8" - 14 UNF	93.3	55.8	70.0	27.0	8G10FJX90L
-10	16	5/8	7/8" - 14 UNF	85.9	48.4	70.0	27.0	10G10FJX90L
-10	16	5/8	1.1/16" - 12 UN	115.7	78.2	96.0	32.0	10G12FJX90L
-12	20	3/4	1.1/16" - 12 UN	122.2	71.2	96.0	32.0	12G12FJX90L
-12	20	3/4	1.3/16" - 12 UN	107.4	56.4	100.0	36.0	12G14FJX90-100
-16	25	1	1.5/16" - 12 UN	120.3	63.5	114.0	41.0	16G16FJX90L
-20	32	1.1/4	1.5/8" - 12 UN	158.0	99.0	129.0	50.0	20G20FJX90L

L: Long drop per ISO 12151-5.

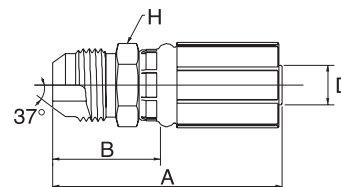
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## JIC 37° MJ

Male JIC parallel. 37° cone.



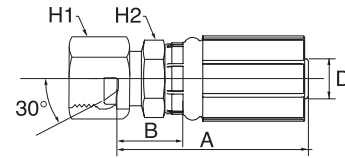
↔			🌀	↔	↔			🌀
D				A	B	H	REF.	
-size	DN	"		mm	mm	mm	G	
-4	6	1/4	7/16" - 20 UNF	55.5	29.5	14.0	4G4MJ	
-4	6	1/4	1/2" - 20 UNF	55.5	29.5	14.0	4G5MJ	
-4	6	1/4	9/16" - 18 UNF	56.5	30.5	17.0	4G6MJ	
-5	8	5/16	1/2" - 20 UNF	57.5	29.5	17.0	5G5MJ	
-5	8	5/16	9/16" - 18 UNF	57.5	29.5	17.0	5G6MJ	
-6	10	3/8	9/16" - 18 UNF	58.5	30.6	17.0	6G6MJ	
-6	10	3/8	3/4" - 16 UNF	63.0	35.1	19.0	6G8MJ	
-6	10	3/8	7/8" - 14 UNF	67.0	39.1	24.0	6G10MJ	
-8	12	1/2	3/4" - 16 UNF	71.5	34.0	22.0	8G8MJ	
-8	12	1/2	7/8" - 14 UNF	74.0	36.5	24.0	8G10MJ	
-8	12	1/2	1.1/16" - 12 UN	81.0	43.5	27.0	8G12MJ	
-10	16	5/8	3/4" - 16 UNF	74.5	37.0	24.0	10G8MJ	
-10	16	5/8	7/8" - 14 UNF	77.0	39.5	24.0	10G10MJ	
-10	16	5/8	1.1/16" - 12 UN	81.0	43.5	27.0	10G12MJ	
-12	20	3/4	1.1/16" - 12 UN	94.5	43.5	27.0	12G12MJ	
-12	20	3/4	1.3/16" - 12 UN	95.5	44.5	32.0	12G14MJ	
-12	20	3/4	1.5/16" - 12 UN	96.0	45.0	36.0	12G16MJ	
-16	25	1	1.5/16" - 12 UN	104.5	47.7	36.0	16G16MJ	
-16	25	1	1.5/8" - 12 UN	109.0	52.2	44.5	16G20MJ	
-20	32	1.1/4	1.5/8" - 12 UN	112.5	53.5	46.0	20G20MJ	

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## JIS FJISX

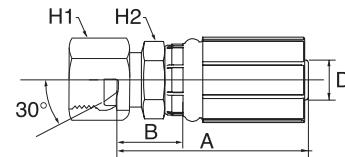
Female Japanese swivel.  
30° inverted cone. BSP thread.



↔			🌀	↔	↔			🌀
D				A	B	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	G 1/2" - 14 BSP	50.0	24.0	19.0	15.0	4G4FJISX
-6	10	3/8	G 3/8" - 19 BSP	52.0	24.1	22.0	17.0	6G6FJISX
-8	12	1/2	G 1/2" - 14 BSP	67.9	30.4	27.0	22.0	8G8FJISX
-12	20	3/4	G 3/4" - 14 BSP	81.3	30.3	36.0	30.0	12G12FJISX
-16	25	1	G 1" - 11 BSP	94.0	37.2	41.0	41.0	16G16FJISX

## JIS FKX

Female Japanese swivel.  
30° inverted cone. Metric thread.



↔			🌀	↔	↔			🌀
D				A	B	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	M14 x 1.5	46.5	20.5	19.0	14.0	4G4FKX
-6	10	3/8	M18 x 1.5	52.0	24.1	22.2	17.5	6G6FKX
-8	12	1/2	M22 x 1.5	61.5	24.0	27.0	22.0	8G8FKX
-10	16	5/8	M24 x 1.5	63.5	26.0	32.0	24.0	10G10FKX
-12	20	3/4	M30 x 1.5	82.3	31.3	36.0	30.0	12G12FKX
-16	25	1	M33 x 1.5	92.5	35.7	41.0	41.0	16G16FKX
-20	32	1.1/4	M36 x 1.5	105.0	46.0	50.8	44.5	20G20FKX

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

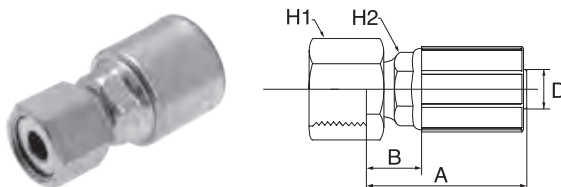


# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## SAE FFORX

Female SAE flat face 'O' ring swivel.



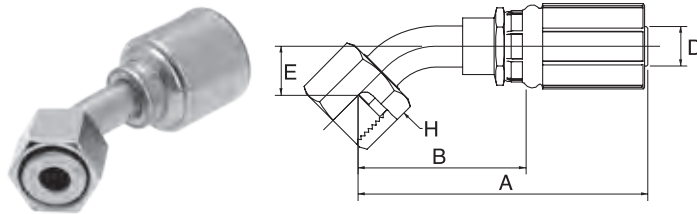
↔			🌀	↔				🌀
D				A	B	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	9/16" - 18 UNF	52.5	26.5	17.0	15.0	4G4FFORX
-4	6	1/4	11/16" - 16 UN	51.1	25.1	22.0	15.0	4G6FFORX
-4	6	1/4	13/16" - 16 UN	50.5	24.5	24.0	15.0	4G8FFORX
-5	8	5/16	11/16" - 16 UN	61.5	33.5	22.0	17.0	5G6FFORX
-6	10	3/8	9/16" - 18 UNF	78.3	50.3	17.0	17.0	6G4FFORX
-6	10	3/8	11/16" - 16 UN	57.7	28.9	22.0	18.0	6G6FFORX
-6	10	3/8	13/16" - 16 UN	57.4	28.6	24.0	18.0	6G8FFORX
-6	10	3/8	1" - 14 UNS	56.0	27.2	30.0	18.0	6G10FFORX
-8	12	1/2	11/16" - 16 UN	95.9	58.4	22.0	22.0	8G6FFORX
-8	12	1/2	13/16" - 16 UN	66.5	31.0	24.0	22.0	8G8FFORX
-8	12	1/2	1" - 14 UNS	70.0	34.8	30.0	22.0	8G10FFORX
-8	12	1/2	1.3/16" - 12 UN	71.5	36.3	36.0	22.0	8G12FFORX
-10	12	5/8	13/16" - 16 UN	97.2	59.7	24.0	24.0	10G8FFORX
-10	16	5/8	1" - 14 UNS	76.0	38.5	30.0	24.0	10G10FFORX
-10	16	5/8	1.3/16" - 12 UN	77.0	39.5	36.0	24.0	10G12FFORX
-12	20	3/4	1" - 14 UNS	95.1	44.1	30.0	30.0	12G10FFORX
-12	20	3/4	1.3/16" - 12 UN	92.8	41.8	36.0	30.0	12G12FFORX
-12	20	3/4	1.7/16" - 12 UN	88.3	37.3	41.0	30.0	12G16FFORX
-16	25	1	1.7/16" - 12 UN	104.0	47.2	41.0	36.0	16G16FFORX
-16	25	1	1.11/16" - 12 UN	103.0	46.2	50.0	36.0	16G20FFORX
-20	32	1.1/4	1.11/16" - 12 UN	109.0	50.0	50.0	41.0	20G20FFORX

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## SAE FFORX45

Female SAE flat face 'O' ring swivel.  
45° swept elbow.



↻			🌀	↔	↔			🌀
-size	D DN	"		A mm	B mm	E mm	H mm	REF. G
-4	6	1/4	9/16" - 18 UNF	65.2	39.2	10.0	17.0	4G4FFORX45S
-4	6	1/4	11/16" - 16 UN	68.5	42.5	11.0	22.0	4G6FFORX45S
-5	8	5/16	11/16" - 16 UN	69.4	41.4	11.0	22.0	5G6FFORX45S
-6	10	3/8	9/16" - 18 UNF	66.1	38.1	10.0	17.0	6G4FFORX45S
-6	10	3/8	11/16" - 16 UN	69.8	41.9	11.0	22.0	6G6FFORX45S
-6	10	3/8	13/16" - 16 UN	85.2	57.3	15.0	24.0	6G8FFORX45S
-8	12	1/2	11/16" - 16 UN	90.7	53.2	11.0	22.0	8G6FFORX45S
-8	12	1/2	13/16" - 16 UN	89.0	51.6	15.0	24.0	8G8FFORX45S
-8	12	1/2	1" - 14 UNS	101.0	63.5	16.0	30.0	8G10FFORX45S
-8	12	1/2	1.3/16" - 12 UN	110.3	72.8	21.0	36.0	8G12FFORX45S
-10	16	5/8	13/16" - 16 UN	96.8	59.3	15.0	24.0	10G8FFORX45S
-10	16	5/8	1" - 14 UNS	100.5	63.0	16.0	30.0	10G10FFORX45S
-10	16	5/8	1.3/16" - 12 UN	105.9	68.4	21.0	36.0	10G12FFORX45S
-12	20	3/4	1" - 14 UNS	113.0	62.0	16.0	30.0	12G10FFORX45S
-12	20	3/4	1.3/16" - 12 UN	118.4	67.4	21.0	36.0	12G12FFORX45S
-12	20	3/4	1.7/16" - 12 UN	122.0	71.0	24.0	41.0	12G16FFORX45S
-16	25	1	1.3/16" - 12 UN	132.5	75.7	21.0	36.0	16G12FFORX45S
-16	25	1	1.7/16" - 12 UN	146.9	90.1	24.0	41.0	16G16FFORX45S
-20	32	1.1/4	1.11/16" - 12 UN	158.0	99.0	25.0	50.0	20G20FFORX45S

S: Short drop per ISO 12151-1.

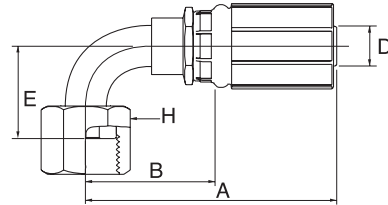
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## SAE FFORX90S

Female SAE flat face 'O' ring swivel.  
90° swept elbow. Short drop.



D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	9/16" - 18 UNF	60.2	34.2	21.0	17.0	4G4FFORX90S
-4	6	1/4	11/16" - 16 UN	63.4	37.4	23.0	22.0	4G6FFORX90S
-5	8	5/16	11/16" - 16 UN	72.0	44.0	23.0	22.0	5G6FFORX90S
-6	10	3/8	9/16" - 18 UNF	61.4	33.6	21.0	17.0	6G4FFORX90S
-6	10	3/8	11/16" - 16 UN	72.5	44.6	23.0	22.0	6G6FFORX90S
-6	10	3/8	13/16" - 16 UN	73.0	45.1	29.0	24.0	6G8FFORX90S
-8	12	1/2	11/16" - 16 UN	83.5	46.0	23.0	22.0	8G6FFORX90S
-8	12	1/2	13/16" - 16 UN	83.9	46.5	29.0	24.0	8G8FFORX90S
-8	12	1/2	1" - 14 UNS	92.9	55.4	32.0	30.0	8G10FFORX90S
-8	12	1/2	1.3/16" - 12 UN	102.9	65.4	48.0	36.0	8G12FFORX90S
-10	16	5/8	13/16" - 16 UN	92.4	54.9	29.0	24.0	10G8FFORX90S
-10	16	5/8	1" - 14 UNS	92.5	55.0	32.0	30.0	10G10FFORX90S
-10	16	5/8	1.3/16" - 12 UN	96.3	58.8	48.0	36.0	10G12FFORX90S
-12	20	3/4	1" - 14 UNS	104.0	53.0	32.0	30.0	12G10FFORX90S
-12	20	3/4	1.3/16" - 12 UN	108.8	57.8	48.0	36.0	12G12FFORX90S
-12	20	3/4	1.7/16" - 12 UN	128.5	77.5	56.0	41.0	12G16FFORX90S
-16	25	1	1.3/16" - 12 UN	129.4	72.6	48.0	36.0	16G12FFORX90S
-16	25	1	1.7/16" - 12 UN	129.9	73.1	56.0	41.0	16G16FFORX90S
-20	32	1.1/4	1.11/16" - 12 UN	150.0	91.0	64.0	50.0	20G20FFORX90S

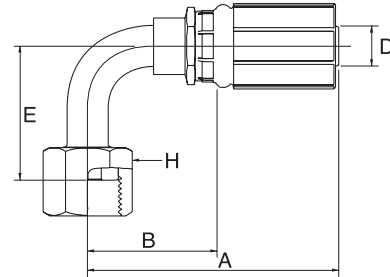
S: Short drop per ISO 12151-1.





Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## SAE FFORX90M

Female SAE flat face 'O' ring swivel.  
90° swept elbow. Medium drop.



								
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	9/16" - 18 UNF	56.2	30.2	32.0	17.0	4G4FFORX90M
-4	6	1/4	11/16" - 16 UN	63.4	37.4	38.0	22.0	4G6FFORX90M
-6	10	3/8	11/16" - 16 UN	63.6	35.7	38.0	22.0	6G6FFORX90M
-6	10	3/8	13/16" - 16 UN	68.5	40.6	41.0	24.0	6G8FFORX90M
-8	12	1/2	13/16" - 16 UN	83.9	46.5	41.0	24.0	8G8FFORX90M
-8	12	1/2	1" - 14 UNS	93.2	55.7	47.0	30.0	8G10FFORX90M
-10	16	5/8	1" - 14 UNS	92.8	55.3	47.0	30.0	10G10FFORX90M
-12	20	3/4	1.3/16" - 12 UN	109.0	58.0	58.0	36.0	12G12FFORX90M
-16	25	1	1.7/16" - 12 UN	129.9	73.1	71.0	41.0	16G16FFORX90M
-16	25	1	1.11/16" - 12 UN	156.0	99.2	78.0	50.0	16G20FFORX90M
-20	32	1.1/4	1.11/16" - 12 UN	140.0	81.0	78.0	50.0	20G20FFORX90M

M: Medium drop per ISO 12151-1.

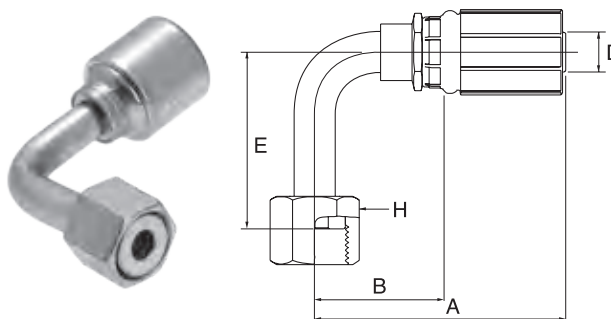
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## SAE FFORX90L

Female SAE flat face 'O' ring swivel.  
90° swept elbow. Long drop.



↻			🌀	↔	🔧			REF.
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	9/16" - 18 UNF	56.2	30.2	46.0	17.0	4G4FFORX90L
-4	6	1/4	11/16" - 16 UN	61.6	35.6	54.0	22.0	4G6FFORX90L
-4	6	1/4	13/16" - 16 UN	67.1	41.1	64.0	24.0	4G8FFORX90L
-6	10	3/8	11/16" - 16 UN	69.3	41.4	54.0	22.0	6G6FFORX90L
-6	10	3/8	13/16" - 16 UN	69.0	41.1	64.0	24.0	6G8FFORX90L
-8	12	1/2	13/16" - 16 UN	83.9	46.5	64.0	24.0	8G8FFORX90L
-8	12	1/2	1" - 14 UNS	90.6	53.1	70.0	30.0	8G10FFORX90L
-10	16	5/8	13/16" - 16 UN	92.4	54.9	64.0	24.0	10G8FFORX90L
-10	16	5/8	1" - 14 UNS	90.2	52.7	70.0	30.0	10G10FFORX90L
-12	20	3/4	1.3/16" - 12 UN	118.2	67.2	96.0	36.0	12G12FFORX90L
-16	25	1	1.7/16" - 12 UN	129.9	73.1	114.0	41.0	16G16FFORX90L
-20	32	1.1/4	1.11/16" - 12 UN	140.0	81.0	129.0	50.0	20G20FFORX90L

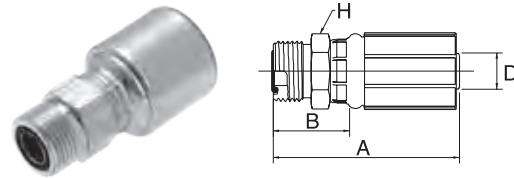
L: Long drop per ISO 12151-1.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## SAE MFFOR

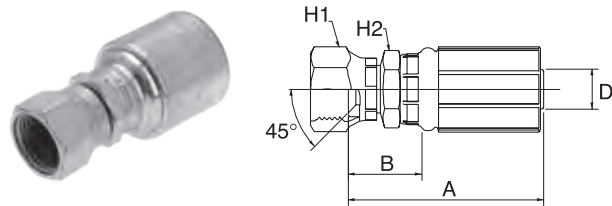
Male SAE flat face 'O' ring.



↔			🌀	↔	🌀		
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	G
-4	6	1/4	9/16" - 18 UNF	52.5	26.5	17.0	4G4MFFOR
-4	6	1/4	11/16" - 16 UN	54.0	28.0	19.0	4G6MFFOR
-5	8	5/16	11/16" - 16 UN	56.0	28.0	19.0	5G6MFFOR
-6	10	3/8	11/16" - 16 UN	56.0	28.1	19.0	6G6MFFOR
-6	10	3/8	13/16" - 16 UN	59.0	31.1	22.0	6G8MFFOR
-6	10	3/8	1" - 14 UNS	64.0	36.1	27.0	6G10MFFOR
-8	12	1/2	13/16" - 16 UN	68.2	30.7	22.0	8G8MFFOR
-8	12	1/2	1" - 14 UNS	73.0	35.5	27.0	8G10MFFOR
-10	16	5/8	1" - 14 UNS	73.0	35.5	27.0	10G10MFFOR
-10	16	5/8	1.3/16" - 12 UN	77.0	39.5	32.0	10G12MFFOR
-12	20	3/4	1.3/16" - 12 UN	90.0	39.0	32.0	12G12MFFOR
-12	20	3/4	1.7/16" - 12 UN	95.0	44.0	41.0	12G16MFFOR
-16	25	1	1.7/16" - 12 UN	102.0	45.2	41.0	16G16MFFOR
-16	25	1	1.11/16" - 12 UN	105.0	48.2	46.0	16G20MFFOR
-20	32	1.1/4	1.11/16" - 12 UN	109.0	50.0	46.0	20G20MFFOR

## SAE 45° FSX

Female SAE swivel. 45° inverted cone.



↔			🌀	↔	🌀			
D				A	B	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	7/16" - 20 UNF	48.0	22.0	14.3	12.7	4G4FSX
-4	6	1/4	1/2" - 20 UNF	46.5	20.5	17.5	12.7	4G5FSX
-4	6	1/4	5/8" - 18 UNF	48.5	22.5	19.1	15.9	4G6FSX
-5	8	5/16	5/8" - 18 UNF	52.0	24.0	19.1	15.9	5G6FSX
-6	10	3/8	5/8" - 18 UNF	52.0	24.1	19.1	15.9	6G6FSX
-6	10	3/8	3/4" - 16 UNF	51.5	23.5	22.2	17.5	6G8FSX
-8	12	1/2	3/4" - 16 UNF	60.0	22.5	22.2	20.6	8G8FSX
-8	12	1/2	7/8" - 14 UNF	63.0	25.5	27.0	20.6	8G10FSX
-12	20	3/4	1.1/16" - 14 UNS	78.5	27.5	31.8	27.0	12G12FSX

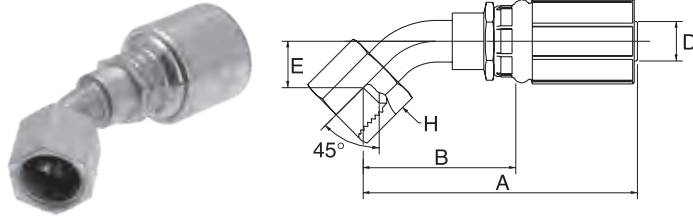
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## SAE 45° FSX45

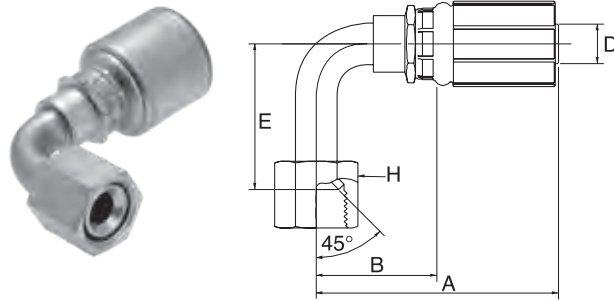
Female SAE swivel. 45° inverted cone.  
45° swept elbow.



↔			🌀	↔	↔			🌀
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-6	10	3/8	5/8" - 18 UNF	69.5	41.6	9.9	19.1	6G6FSX45
-8	12	1/2	3/4" - 16 UNF	84.0	46.5	14.0	22.2	8G8FSX45
-12	20	3/4	1.1/16" - 14 UNS	111.0	60.0	19.8	31.8	12G12FSX45

## SAE 45° FSX90

Female SAE swivel. 45° inverted cone.  
90° swept elbow.



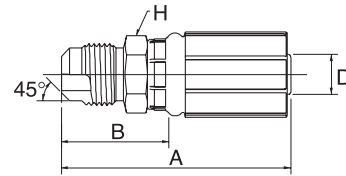
↔			🌀	↔	↔			🌀
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	7/16" - 20 UNF	52.0	26.0	31.5	14.3	4G4FSX90
-6	10	3/8	5/8" - 18 UNF	60.0	32.1	38.5	19.1	6G6FSX90
-6	10	3/8	3/4" - 16 UNF	63.5	35.6	44.5	22.2	6G8FSX90
-8	12	1/2	3/4" - 16 UNF	74.5	37.0	44.5	22.2	8G8FSX90
-12	20	3/4	1.1/16" - 14 UNS	100.0	49.0	70.5	31.8	12G12FSX90

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## SAE 45° MS

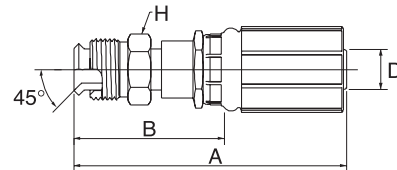
Male SAE parallel. 45° cone.



↔			🌀	↔	↔		🌀
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	G
-4	6	1/4	7/16" - 20 UNF	53.5	27.5	12.7	4G4MS
-6	10	3/8	5/8" - 18 UNF	60.5	32.6	15.9	6G6MS
-8	12	1/2	3/4" - 16 UNF	73.5	36.0	20.6	8G8MS
-8	12	1/2	7/8" - 14 UNF	77.0	39.5	22.2	8G10MS
-12	20	3/4	1.1/16" - 14 UNS	96.0	45.0	27.0	12G12MS

## SAE 45° MIX

Male SAE parallel. 45° inverted cone.



↔			🌀	↔	↔		🌀
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	G
-4	6	1/4	7/16" - 24 UNS	63.9	37.9	11.1	4G4MIX
-4	6	1/4	1/2" - 20 UNF	63.9	37.9	12.7	4G5MIX
-6	10	3/8	1/2" - 20 UNF	64.9	37.0	12.7	6G5MIX
-6	10	3/8	5/8" - 18 UNF	69.9	42.0	15.9	6G6MIX
-6	10	3/8	11/16" - 18 UNS	70.0	42.1	17.5	6G7MIX
-8	12	1/2	3/4" - 18 UNS	83.8	46.3	19.1	8G8MIX
-10	16	5/8	7/8" - 18 UNS	99.5	62.0	22.2	10G10MIX

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

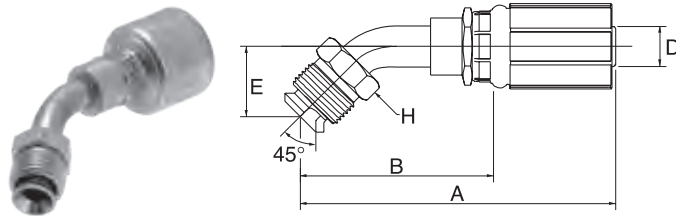


# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## SAE 45° MIX45

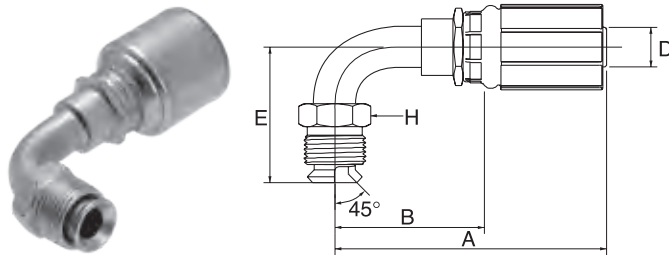
Male SAE parallel. 45° inverted cone.  
45° swept elbow.



↻			🌀	↔	↔			📏
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-6	10	3/8	7/16" - 24 UNS	80.5	52.6	25.4	11.1	6G4MIX45
-6	10	3/8	1/2" - 20 UNF	79.5	51.6	25.4	12.7	6G5MIX45
-6	10	3/8	5/8" - 18 UNF	84.3	56.4	25.4	15.9	6G6MIX45
-6	10	3/8	11/16" - 18 UNS	86.0	58.1	25.4	17.5	6G7MIX45

## SAE 45° MIX90

Male SAE parallel. 45° inverted cone.  
90° swept elbow.



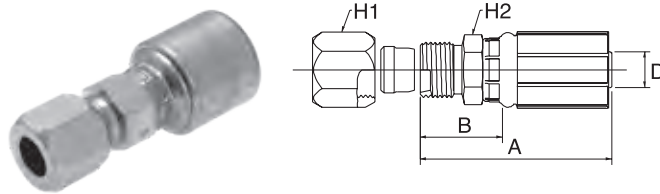
↻			🌀	↔	↔			📏
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	7/16" - 24 UNS	59.2	33.2	35.1	11.1	4G4MIX90
-4	6	1/4	1/2" - 20 UNF	62.5	36.5	35.1	12.7	4G5MIX90
-6	10	3/8	7/16" - 24 UNS	62.0	34.1	35.1	11.1	6G4MIX90
-6	10	3/8	1/2" - 20 UNF	63.5	35.6	35.1	12.7	6G5MIX90
-6	10	3/8	5/8" - 18 UNF	71.0	43.1	35.1	15.9	6G6MIX90
-6	10	3/8	11/16" - 18 UNS	71.0	43.1	35.1	17.5	6G7MIX90
-8	12	1/2	3/4" - 18 UNS	83.5	46.0	41.7	19.1	8G8MIX90

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## SAE 24° MFA

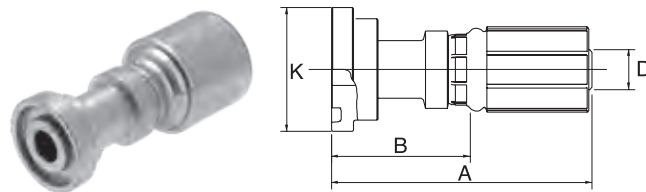
Male SAE parallel. 24° inverted cone.



↔			🌀	↔				🌀
D				A	B	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	7/16" - 20 UNF	53.0	27.0	14.3	12.7	4G4MFA
-4	6	1/4	1/2" - 20 UNF	50.0	24.0	15.9	12.7	4G5MFA
-6	10	3/8	7/16" - 20 UNF	55.0	27.1	14.3	15.9	6G4MFA
-6	10	3/8	1/2" - 20 UNF	55.0	27.1	15.9	15.9	6G5MFA
-6	10	3/8	9/16" - 18 UNF	56.0	28.1	17.5	15.9	6G6MFA
-6	10	3/8	3/4" - 16 UNF	61.0	33.1	22.2	19.1	6G8MFA
-8	12	1/2	3/4" - 16 UNF	70.5	33.0	22.2	20.6	8G8MFA
-8	12	1/2	7/8" - 14 UNF	72.0	34.5	25.4	22.2	8G10MFA
-12	20	3/4	1.1/16" - 12 UN	90.0	39.0	31.8	27.0	12G12MFA
-16	25	1	1.5/16" - 12 UN	100.0	43.2	38.1	34.9	16G16MFA

## SAE FL

SAE 'O' ring flange. Code 61.



↔			🌀	↔				🌀
D				A	B	K	KIT	REF.
-size	DN	"		mm	mm	mm		G
-8	12	1/2	1/2"	80.0	42.5	30.2	8 PA-FL	8G8FL
-8	12	1/2	3/4"	80.0	42.5	38.1	12 PA-FL	8G12FL
-10	16	5/8	3/4"	98.0	60.5	38.1	12 PA-FL	10G12FL
-12	20	3/4	3/4"	98.0	47.0	38.1	12 PA-FL	12G12FL
-12	20	3/4	1"	88.8	37.8	44.5	16 PA-FL	12G16FL
-16	25	1	3/4"	128.0	71.2	38.1	12 PA-FL	16G12FL
-16	25	1	1"	105.0	48.2	44.5	16 PA-FL	16G16FL
-16	25	1	1.1/4"	105.0	48.2	50.8	20 PA-FL	16G20FL
-16	25	1	1.1/2"	96.0	39.2	60.3	24 PA-FL	16G24FL
-20	32	1.1/4	1.1/4"	112.5	53.5	50.8	20 PA-FL	20G20FL
-20	32	1.1/4	1.1/2"	117.5	58.5	60.3	24 PA-FL	20G24FL

Details on flange kits see page 292.

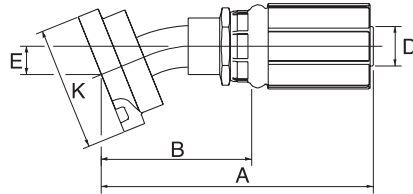
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## SAE FL22

SAE 'O' ring flange. Code 61.  
22° swept elbow.

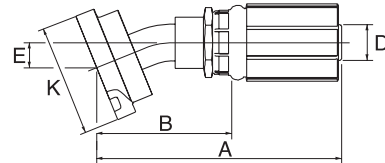


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D				A	B	E	K	KIT	REF.
-size	DN	"		mm	mm	mm	mm		G
-12	20	3/4	3/4"	121.0	70.0	11.0	38.1	12 PA-FL	12G12FL22M
-16	25	1	1"	142.5	85.7	14.0	44.5	16 PA-FL	16G16FL22M
-20	32	1.1/4	1.1/4"	152.5	93.5	15.0	50.8	20 PA-FL	20G20FL22M

M: Medium drop per ISO 12151-3. / Details on flange kits see page 292.

## SAE FL30

SAE 'O' ring flange. Code 61.  
30° swept elbow.



↻			⌋	↔					⌋
D				A	B	E	K	KIT	REF.
-size	DN	"		mm	mm	mm	mm		G
-16	25	1	1"	144.5	87.7	19.0	44.5	16 PA-FL	16G16FL30M

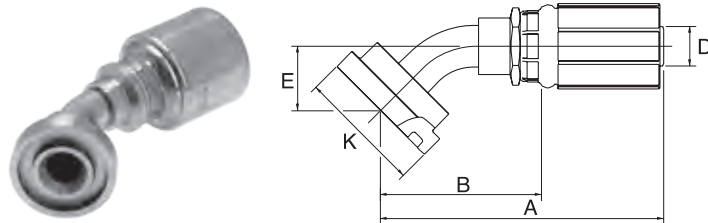
M: Medium drop per ISO 12151-3. / Details on flange kits see page 292.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## SAE FL45

SAE 'O' ring flange. Code 61.  
45° swept elbow.

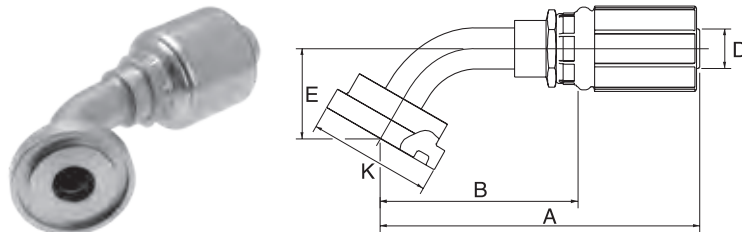


↻			⊕	↔					⊕
D				A	B	E	K	KIT	REF.
-size	DN	"		mm	mm	mm	mm		G
-8	12	1/2	1/2"	84.9	47.5	21.7	30.2	8 PA-FL	8G8FL45M
-8	12	1/2	3/4"	104.8	67.3	26.0	38.1	12 PA-FL	8G12FL45M
-12	20	3/4	3/4"	107.2	56.2	26.6	38.1	12 PA-FL	12G12FL45M
-12	20	3/4	1"	124.5	73.5	28.0	44.5	16 PA-FL	12G16FL45S
-16	25	1	3/4"	118.7	61.9	26.6	38.1	12 PA-FL	16G12FL45M
-16	25	1	1"	142.5	85.7	28.0	44.5	16 PA-FL	16G16FL45S
-16	25	1	1.1/4"	149.0	92.2	32.0	50.8	20 PA-FL	16G20FL45S
-20	32	1.1/4	1.1/4"	157.0	98.0	32.0	50.8	20 PA-FL	20G20FL45S

S: Short drop - M: Medium drop per ISO 12151-3. / Details on flange kits see page 292.

## SAE FL60

SAE 'O' ring flange. Code 61.  
60° swept elbow.



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D				A	B	E	K	KIT	REF.
-size	DN	"		mm	mm	mm	mm		G
-12	20	3/4	3/4"	128.0	77.0	37.0	38.1	12 PA-FL	12G12FL60M
-12	20	3/4	1"	132.0	81.0	44.0	44.5	16 PA-FL	12G16FL60M

M: Medium drop per ISO 12151-3. / Details on flange kits see page 292.

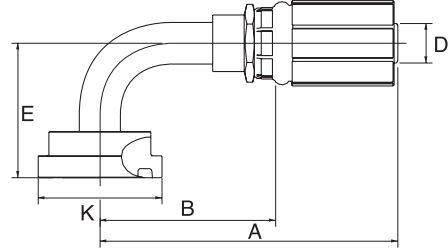
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# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## SAE FL90

SAE 'O' ring flange. Code 61.  
90° swept elbow.



↻			⌋	↔					⌋
D				A	B	E	K	KIT	REF.
-size	DN	"		mm	mm	mm	mm		G
-8	12	1/2	1/2"	91.2	53.7	40.0	30.2	8 PA-FL	8G8FL90M
-8	12	1/2	3/4"	91.5	54.0	58.0	38.1	12 PA-FL	8G12FL90M
-10	16	5/8	3/4"	101.8	64.3	58.0	38.1	12 PA-FL	10G12FL90M
-12	20	3/4	3/4"	97.3	46.3	54.4	38.1	12 PA-FL	12G12FL90-054
-12	20	3/4	1"	119.8	68.8	61.0	44.5	16 PA-FL	12G16FL90S
-16	25	1	1"	139.3	82.5	61.0	44.5	16 PA-FL	16G16FL90S
-16	25	1	1.1/4"	139.3	82.5	68.0	50.8	20 PA-FL	16G20FL90S
-16	25	1	1.1/2"	118.2	61.4	61.6	60.3	24 PA-FL	16G24FL90
-20	32	1.1/4	1"	122.1	63.1	61.8	44.5	16 PA-FL	20G16FL90S
-20	32	1.1/4	1.1/4"	158.1	99.1	68.0	50.8	20 PA-FL	20G20FL90S
-20	32	1.1/4	1.1/2"	158.1	99.1	81.0	60.3	24 PA-FL	20G24FL90S

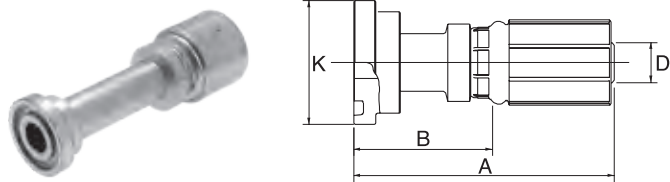
S: Short drop - M: Medium drop per ISO 12151-3. / Details on flange kits see page 292.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## FLK

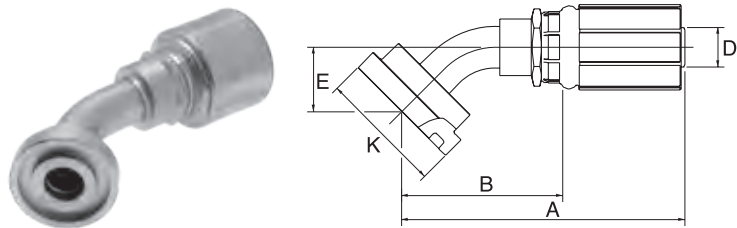
Komatsu type 'O' ring flange.



D				A			B	K	REF.
-size	DN	"		mm	mm	mm	mm	G	
-8	12	1/2	5/8"	80.0	42.5	34.2		8G10FLK	
-10	16	5/8	5/8"	119.0	81.5	34.2		10G10FLK	

## FLK45

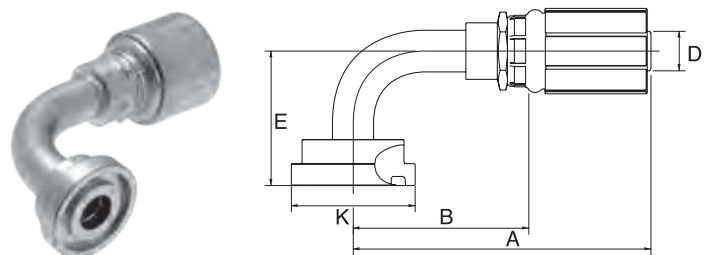
Komatsu type 'O' ring flange.  
45° swept elbow.



D				A	B	E	K	REF.
-size	DN	"		mm	mm	mm	mm	G
-10	16	5/8	5/8"	106.5	69.0	26.0	34.2	10G10FLK45

## FLK90

Komatsu type 'O' ring flange.  
90° swept elbow.



D				A	B	E	K	REF.
-size	DN	"		mm	mm	mm	mm	G
-10	16	5/8	5/8"	99.0	61.5	55.0	34.2	10G10FLK90

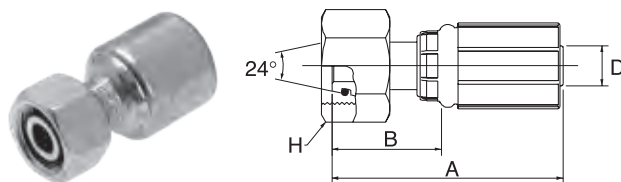
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## DIN 24° FDLORX

Female DIN 'O' ring swivel. 24° cone.  
Light series.



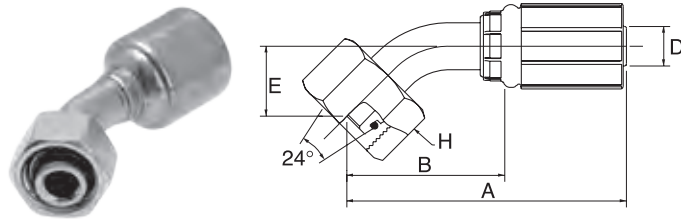
↻			🌀	↔	🌀		REF.
-size	DN	"		A mm	B mm	H mm	G
-4	6	1/4	M12 x 1.5	50.5	24.5	14.0	4G6FDLORX
-4	6	1/4	M14 x 1.5	52.5	26.5	17.0	4G8FDLORX
-4	6	1/4	M16 x 1.5	53.5	27.5	19.0	4G10FDLORX
-4	6	1/4	M18 x 1.5	52.5	26.5	22.0	4G12FDLORX
-5	8	5/16	M14 x 1.5	52.0	28.4	17.0	5G8FDLORX
-5	8	5/16	M16 x 1.5	53.9	29.7	19.0	5G10FDLORX
-5	8	5/16	M18 x 1.5	58.5	30.0	22.0	5G12FDLORX
-6	10	3/8	M16 x 1.5	55.0	27.1	19.0	6G10FDLORX
-6	10	3/8	M18 x 1.5	55.5	27.6	22.0	6G12FDLORX
-6	10	3/8	M20 x 1.5	58.0	30.1	24.0	6G14FDLORX
-6	10	3/8	M22 x 1.5	54.0	26.1	27.0	6G15FDLORX
-8	12	1/2	M18 x 1.5	70.2	32.7	22.0	8G12FDLORX
-8	12	1/2	M22 x 1.5	63.5	26.0	27.0	8G15FDLORX
-8	12	1/2	M26 x 1.5	65.0	27.5	32.0	8G18FDLORX
-10	16	5/8	M26 x 1.5	67.0	29.5	32.0	10G18FDLORX
-12	20	3/4	M26 x 1.5	81.5	30.5	32.0	12G18FDLORX
-12	20	3/4	M30 x 2.0	83.5	32.5	36.0	12G22FDLORX
-16	25	1	M36 x 2.0	81.6	36.7	41.0	16G28FDLORX
-20	32	1.1/4	M45 x 2.0	90.4	44.1	50.0	20G35FDLORX

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## DIN 24° FDLORX45

Female DIN 'O' ring swivel. 24° cone.  
Light series. 45° swept elbow.



↻			🌀	↔	🔧			REF.
-size	D	"		A	B	E	H	G
	DN			mm	mm	mm	mm	
-4	6	1/4	M12 x 1.5	65.8	39.7	16.9	14.0	4G6FDLORX45
-4	6	1/4	M14 x 1.5	65.1	39.0	16.2	17.0	4G8FDLORX45
-4	6	1/4	M16 x 1.5	66.9	40.8	17.9	19.0	4G10FDLORX45
-4	6	1/4	M18 x 1.5	67.2	41.2	18.3	22.0	4G12FDLORX45
-5	8	5/16	M14 x 1.5	67.1	39.1	16.9	17.0	5G8FDLORX45
-5	8	5/16	M16 x 1.5	63.4	39.3	17.1	19.0	5G10FDLORX45
-5	8	5/16	M18 x 1.5	67.7	39.7	18.9	22.0	5G12FDLORX45
-6	10	3/8	M16 x 1.5	68.5	40.5	18.6	19.0	6G10FDLORX45
-6	10	3/8	M18 x 1.5	68.8	40.9	18.9	22.0	6G12FDLORX45
-6	10	3/8	M22 x 1.5	72.3	44.4	22.5	27.0	6G15FDLORX45
-8	12	1/2	M18 x 1.5	92.9	55.4	29.7	22.0	8G12FDLORX45
-8	12	1/2	M22 x 1.5	84.4	47.0	20.2	27.0	8G15FDLORX45
-8	12	1/2	M26 x 1.5	94.6	57.1	26.9	32.0	8G18FDLORX45
-10	16	5/8	M26 x 1.5	93.5	56.2	24.8	32.0	10G18FDLORX45
-12	20	3/4	M30 x 2.0	117.1	66.1	29.8	36.0	12G22FDLORX45
-16	25	1	M36 x 2.0	123.7	78.8	30.9	41.0	16G28FDLORX45
-20	32	1.1/4	M45 x 2.0	161.9	102.9	37.5	50.0	20G35FDLORX45

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

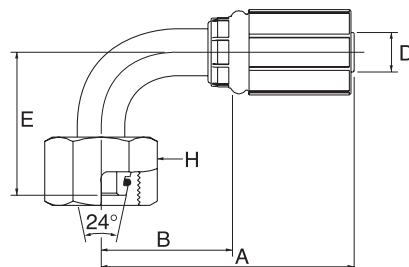


# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## DIN 24° FDLORX90

Female DIN 'O' ring swivel. 24° cone.  
Light series. 90° swept elbow.



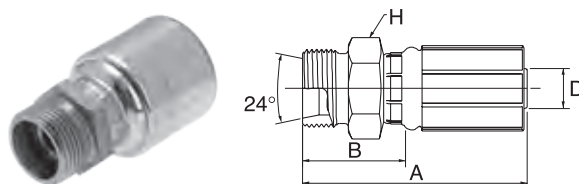
↻			🌀	↔	🔧			REF.
-size	DN	"		A mm	B mm	E mm	H mm	G
-4	6	1/4	M12 x 1.5	60.0	34.0	35.0	14.0	4G6FDLORX90
-4	6	1/4	M14 x 1.5	60.0	34.0	35.0	17.0	4G8FDLORX90
-4	6	1/4	M16 x 1.5	60.0	34.0	36.5	19.0	4G10FDLORX90
-4	6	1/4	M18 x 1.5	60.0	34.0	37.0	22.0	4G12FDLORX90
-5	8	5/16	M14 x 1.5	61.4	33.4	35.0	17.0	5G8FDLORX90
-5	8	5/16	M16 x 1.5	58.6	34.4	36.5	19.0	5G10FDLORX90
-5	8	5/16	M15 x 1.5	59.0	31.0	37.0	22.0	5G12FDLORX90
-6	10	3/8	M16 x 1.5	60.1	32.2	36.5	19.0	6G10FDLORX90
-6	10	3/8	M18 x 1.5	60.1	32.2	37.0	22.0	6G12FDLORX90
-6	10	3/8	M22 x 1.5	60.1	32.2	42.0	27.0	6G15FDLORX90
-8	12	1/2	M18 x 1.5	74.3	36.9	53.1	22.0	8G12FDLORX90
-8	12	1/2	M22 x 1.5	77.8	40.3	42.0	27.0	8G15FDLORX90
-8	12	1/2	M26 x 1.5	81.4	43.9	51.5	32.0	8G18FDLORX90
-10	16	5/8	M26 x 1.5	85.1	47.8	51.5	32.0	10G18FDLORX90
-12	20	3/4	M26 x 1.5	100.3	49.3	51.5	32.0	12G18FDLORX90
-12	20	3/4	M30 x 2.0	107.3	56.3	62.0	36.0	12G22FDLORX90
-16	25	1	M36 x 2.0	119.2	74.3	70.0	41.0	16G28FDLORX90
-20	32	1.1/4	M45 x 2.0	151.4	92.4	80.0	50.0	20G35FDLORX90

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## DIN 24° MDL

Male DIN parallel. 24° inverted cone.  
Light series.



↔			🌀	↔	🌀		
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	G
-4	6	1/4	M12 x 1.5	42.9	19.8	14.0	4G6MDL
-4	6	1/4	M14 x 1.5	43.9	20.8	17.0	4G8MDL
-4	6	1/4	M16 x 1.5	44.9	21.8	17.0	4G10MDL
-4	6	1/4	M18 x 1.5	47.1	24.0	19.0	4G12MDL
-5	8	5/16	M14 x 1.5	44.7	20.8	17.0	5G8MDL
-5	8	5/16	M16 x 1.5	45.9	21.8	17.0	5G10MDL
-5	8	5/16	M18 x 1.5	46.7	22.8	19.0	5G12MDL
-6	10	3/8	M16 x 1.5	45.3	21.9	17.0	6G10MDL
-6	10	3/8	M18 x 1.5	46.3	22.9	19.0	6G12MDL
-6	10	3/8	M22 x 1.5	47.3	23.9	24.0	6G15MDL
-8	12	1/2	M18 x 1.5	55.6	23.1	22.0	8G12MDL
-8	12	1/2	M22 x 1.5	56.5	24.0	24.0	8G15MDL
-8	12	1/2	M26 x 1.5	58.0	25.5	27.0	8G18MDL
-10	16	5/8	M26 x 1.5	64.0	26.5	27.0	10G18MDL
-12	20	3/4	M26 x 1.5	78.0	27.0	27.0	12G18MDL
-12	20	3/4	M30 x 2.0	80.0	29.0	32.0	12G22MDL
-16	25	1	M36 x 2.0	76.3	30.4	41.0	16G28MDL
-20	32	1.1/4	M45 x 2.0	80.4	35.1	46.0	20G35MDL

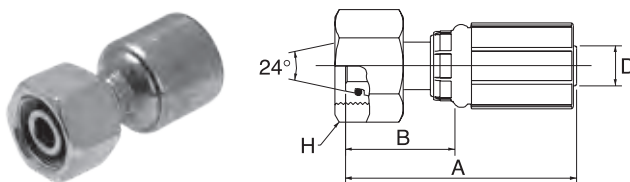
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## DIN 24° FDHORX

Female DIN 'O' ring swivel. 24° cone.  
Heavy series.



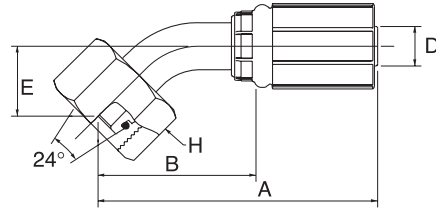
↻			🌀	↔	🔧		REF.
-size	DN	"		A mm	B mm	H mm	G
-4	6	1/4	M14 x 1.5	50.5	24.5	17.0	4G6FDHORX
-4	6	1/4	M16 x 1.5	52.5	26.5	19.0	4G8FDHORX
-4	6	1/4	M18 x 1.5	53.5	27.5	22.0	4G10FDHORX
-4	6	1/4	M20 x 1.5	52.5	26.5	24.0	4G12FDHORX
-5	8	5/16	M18 x 1.5	54.1	29.9	22.0	5G10FDHORX
-5	8	5/16	M20 x 1.5	58.0	30.0	24.0	5G12FDHORX
-5	8	5/16	M22 x 1.5	53.6	30.0	27.0	5G14FDHORX
-6	10	3/8	M18 x 1.5	55.0	27.1	22.0	6G10FDHORX
-6	10	3/8	M20 x 1.5	55.5	27.6	24.0	6G12FDHORX
-6	10	3/8	M22 x 1.5	58.0	30.1	27.0	6G14FDHORX
-8	12	1/2	M20 x 1.5	70.2	32.7	24.0	8G12FDHORX
-8	12	1/2	M22 x 1.5	68.0	30.5	27.0	8G14FDHORX
-8	12	1/2	M24 x 1.5	69.0	31.5	30.0	8G16FDHORX
-8	12	1/2	M30 x 2.0	70.0	32.5	36.0	8G20FDHORX
-10	16	5/8	M24 x 1.5	71.0	33.5	30.0	10G16FDHORX
-10	16	5/8	M30 x 2.0	73.0	35.5	36.0	10G20FDHORX
-12	20	3/4	M30 x 2.0	89.5	38.5	36.0	12G20FDHORX
-12	20	3/4	M36 x 2.0	90.0	39.0	46.0	12G25FDHORX
-16	25	1	M36 x 2.0	102.5	45.7	46.0	16G25FDHORX
-16	25	1	M42 x 2.0	94.1	49.2	50.0	16G30FDHORX
-20	32	1.1/4	M52 x 2.0	104.1	57.8	60.0	20G38FDHORX

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## DIN 24° FDHORX45

Female DIN 'O' ring swivel. 24° cone.  
Heavy series. 45° swept elbow.



↻			🌀	↔	🔧			
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	M16 x 1.5	65.1	39.0	16.2	19.0	4G8FDHORX45
-4	6	1/4	M18 x 1.5	66.9	40.8	17.9	22.0	4G10FDHORX45
-4	6	1/4	M20 x 1.5	67.2	41.2	18.3	24.0	4G12FDHORX45
-5	8	5/16	M18 x 1.5	63.3	39.3	17.1	22.0	5G10FDHORX45
-5	8	5/16	M20 x 1.5	67.7	39.7	18.9	24.0	5G12FDHORX45
-6	10	3/8	M18 x 1.5	68.5	40.5	18.6	22.0	6G10FDHORX45
-6	10	3/8	M20 x 1.5	68.8	40.9	18.9	24.0	6G12FDHORX45
-6	10	3/8	M22 x 1.5	70.9	43.0	21.0	27.0	6G14FDHORX45
-8	12	1/2	M22 x 1.5	91.3	53.9	27.1	27.0	8G14FDHORX45
-8	12	1/2	M24 x 1.5	85.9	48.4	21.6	30.0	8G16FDHORX45
-10	16	5/8	M30 x 2.0	93.1	55.8	24.9	36.0	10G20FDHORX45
-12	20	3/4	M30 x 2.0	109.4	58.4	24.9	36.0	12G20FDHORX45
-12	20	3/4	M36 x 2.0	118.6	67.6	31.2	46.0	12G25FDHORX45
-16	25	1	M36 x 2.0	146.5	89.7	35.1	46.0	16G25FDHORX45
-16	25	1	M42 x 2.0	139.8	83.0	35.1	50.0	16G30FDHORX45
-20	32	1.1/4	M52 x 2.0	166.9	107.9	42.5	60.0	20G38FDHORX45

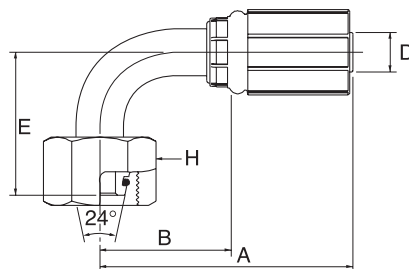
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## DIN 24° FDHORX90

Female DIN 'O' ring swivel. 24° cone.  
Heavy series. 90° swept elbow.



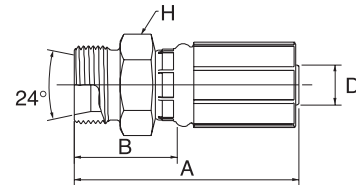
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	M14 x 1.5	60.0	34.0	35.0	17.0	4G6FDHORX90
-4	6	1/4	M16 x 1.5	60.0	34.0	35.0	19.0	4G8FDHORX90
-4	6	1/4	M18 x 1.5	60.0	34.0	36.5	22.0	4G10FDHORX90
-4	6	1/4	M20 x 1.5	60.0	34.0	37.0	24.0	4G12FDHORX90
-5	8	5/16	M18 x 1.5	58.5	34.4	36.5	22.0	5G10FDHORX90
-5	8	5/16	M20 x 1.5	59.0	31.0	37.0	24.0	5G12FDHORX90
-5	8	5/16	M22 x 1.5	54.6	31.0	40.0	27.0	5G14FDHORX90
-6	10	3/8	M18 x 1.5	60.1	32.2	36.5	22.0	6G10FDHORX90
-6	10	3/8	M20 x 1.5	60.1	32.2	37.0	24.0	6G12FDHORX90
-6	10	3/8	M22 x 1.5	60.3	32.4	40.0	27.0	6G14FDHORX90
-8	12	1/2	M24 x 1.5	77.8	40.3	44.0	30.0	8G16FDHORX90
-10	16	5/8	M30 x 2.0	84.1	46.8	51.0	36.0	10G20FDHORX90
-12	20	3/4	M30 X 2.0	100.3	49.3	51.0	36.0	12G20FDHORX90
-12	20	3/4	M36 x 2.0	107.3	56.3	64.0	46.0	12G25FDHORX90
-16	25	1	M36 x 2.0	137.8	81.0	76.0	46.0	16G25FDHORX90
-16	25	1	M42 x 2.0	119.2	74.3	76.0	50.0	16G30FDHORX90
-20	32	1.1/4	M52 x 2.0	151.4	92.4	87.0	60.0	20G38FDHORX90

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## DIN 24° MDH

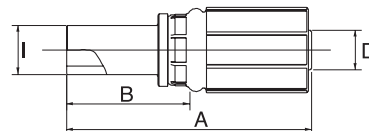
Male DIN parallel. 24° inverted cone.  
Heavy series.



↔			🌀	↔			🌀
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	G
-4	6	1/4	M16 x 1.5	53.0	27.0	17.0	4G8MDH
-4	6	1/4	M18 x 1.5	52.5	26.5	19.0	4G10MDH
-5	8	5/16	M18 x 1.5	49.7	25.8	19.0	5G10MDH
-5	8	5/16	M20 x 1.5	51.9	27.8	22.0	5G12MDH
-6	10	3/8	M18 x 1.5	55.0	27.1	19.0	6G10MDH
-6	10	3/8	M20 x 1.5	57.5	29.6	24.0	6G12MDH
-6	10	3/8	M22 x 1.5	59.5	31.6	24.0	6G14MDH
-8	12	1/2	M20 x 1.5	61.5	29.0	24.0	8G12MDH
-8	12	1/2	M24 x 1.5	69.0	31.5	27.0	8G16MDH
-10	16	5/8	M30 x 2.0	73.0	35.5	32.0	10G20MDH
-12	20	3/4	M30 x 2.0	87.0	36.0	32.0	12G20MDH
-12	20	3/4	M36 x 2.0	91.0	40.0	41.0	12G25MDH
-16	25	1	M36 x 2.0	86.3	40.4	41.0	16G25MDH
-16	25	1	M42 x 2.0	88.3	42.4	46.0	16G30MDH
-20	32	1.1/4	M52 X 2.0	94.4	49.1	55.0	20G38MDH

## METRIC MSP

Metric standpipe.



↔			↔			🌀
D			I	A	B	REF.
-size	DN	"	mm	mm	mm	G
-4	6	1/4	L6	62.5	36.5	4G6MSP
-4	6	1/4	L8	62.5	36.5	4G8MSP
-4	6	1/4	L10	64.5	38.5	4G10MSP
-5	8	5/16	L8	64.5	36.5	5G8MSP
-5	8	5/16	L10	66.5	38.5	5G10MSP
-5	8	5/16	L12	66.5	38.5	5G12MSP
-6	10	3/8	L10	66.5	38.6	6G10MSP
-6	10	3/8	L12	66.5	38.6	6G12MSP
-8	12	1/2	L15	76.3	38.8	8G15MSP
-10	16	5/8	L18	77.0	39.5	10G18MSP
-12	20	3/4	L22	93.0	42.0	12G22MSP

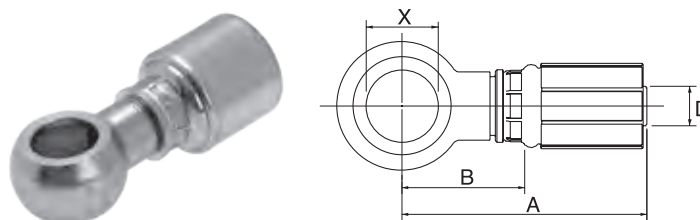
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## METRIC DBJ

Metric banjo.



↔			↻	↔	↻		
D				A	B	X	REF.
-size	DN	"		mm	mm	mm	G
-4	6	1/4	M10	52.3	26.3	10.1	4G10DBJ
-4	6	1/4	M12	54.3	28.3	12.1	4G12DBJ
-4	6	1/4	M14	56.3	30.3	14.1	4G14DBJ
-4	6	1/4	M16	58.3	32.3	16.1	4G16DBJ
-4	6	1/4	M18	60.3	34.3	18.1	4G18DBJ
-5	8	5/16	M12	56.2	28.2	12.1	5G12DBJ
-5	8	5/16	M14	58.2	30.2	14.1	5G14DBJ
-5	8	5/16	M16	60.2	32.2	16.1	5G16DBJ
-5	8	5/16	M18	62.2	34.2	18.1	5G18DBJ
-6	10	3/8	M12	56.0	28.1	12.1	6G12DBJ
-6	10	3/8	M14	58.3	30.4	14.1	6G14DBJ
-6	10	3/8	M16	60.3	32.4	16.1	6G16DBJ
-6	10	3/8	M18	62.3	34.4	18.1	6G18DBJ
-6	10	3/8	M22	63.8	35.9	22.1	6G22DBJ
-8	12	1/2	M18	72.2	34.7	18.1	8G18DBJ
-8	12	1/2	M22	75.7	38.2	22.1	8G22DBJ
-10	16	5/8	M22	76.2	38.7	22.1	10G22DBJ
-12	20	3/4	M22	89.2	38.2	22.1	12G22DBJ
-12	20	3/4	M26	94.7	43.7	26.1	12G26DBJ
-16	25	1	M30	109.2	52.4	30.1	16G30DBJ

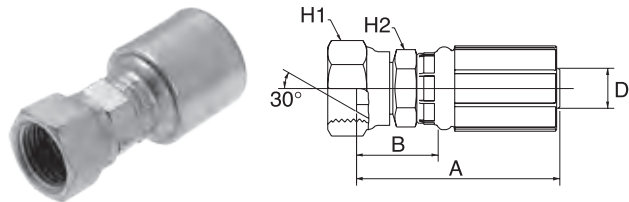
-4 to -16 size are 10.0 MPa (1450 psi).

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## NPTF FPX

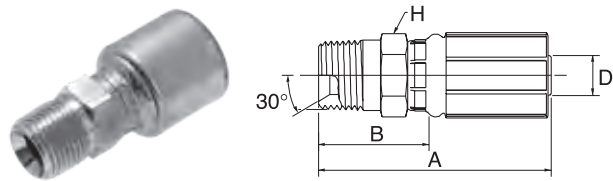
Female NPSM pipe swivel. 30° cone.



↔			🌀	↔	↔			🌀
D				A	B	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	1/4" - 18 NPSM	51.0	25.0	17.5	12.7	4G4FPX
-6	10	3/8	3/8" - 18 NPSM	56.0	28.1	22.2	15.9	6G6FPX
-8	12	1/2	1/2" - 14 NPSM	64.5	27.0	25.4	20.7	8G8FPX
-12	20	3/4	3/4" - 14 NPSM	84.5	33.5	31.8	27.0	12G12FPX
-16	25	1	1" - 11.5 NPSM	94.0	37.2	38.1	34.9	16G16FPX

## NPTF MP

Male NPTF pipe.



↔			🌀	↔	↔			🌀
D				A	B	H	REF.	
-size	DN	"		mm	mm	mm	G	
-4	6	1/4	1/8" - 27 NPTF	50.0	24.0	12.7	4G2MP	
-4	6	1/4	1/4" - 18 NPTF	55.0	29.0	14.3	4G4MP	
-4	6	1/4	3/8" - 18 NPTF	55.0	29.0	17.5	4G6MP	
-4	6	1/4	1/2" - 14 NPTF	62.0	36.0	22.2	4G8MP	
-5	8	5/16	1/4" - 18 NPTF	58.0	30.0	15.9	5G4MP	
-5	8	5/16	3/8" - 18 NPTF	59.0	31.0	17.5	5G6MP	
-6	10	3/8	1/4" - 18 NPTF	59.0	31.1	15.9	6G4MP	
-6	10	3/8	3/8" - 18 NPTF	59.0	31.1	17.5	6G6MP	
-6	10	3/8	1/2" - 14 NPTF	64.0	36.1	22.2	6G8MP	
-8	12	1/2	3/8" - 18 NPTF	69.0	31.5	20.6	8G6MP	
-8	12	1/2	1/2" - 14 NPTF	73.0	35.5	22.2	8G8MP	
-8	12	1/2	3/4" - 14 NPTF	75.0	37.5	27.0	8G12MP	
-10	16	5/8	1/2" - 14 NPTF	75.0	37.5	23.8	10G8MP	
-10	16	5/8	3/4" - 14 NPTF	75.0	37.5	27.0	10G12MP	
-12	20	3/4	1/2" - 14 NPTF	88.0	37.0	27.0	12G8MP	
-12	20	3/4	3/4" - 14 NPTF	88.0	37.0	27.0	12G12MP	
-12	20	3/4	1" - 11.5 NPTF	96.0	45.0	34.9	12G16MP	
-16	25	1	3/4" - 14 NPTF	100.0	43.2	34.9	16G12MP	
-16	25	1	1" - 11.5 NPTF	104.5	47.7	34.9	16G16MP	
-20	32	1.1/4	1.1/4" - 11.5 NPTF	113.0	54.0	44.5	20G20MP	

Warning: Use only in NPTF connections. Do not use in oil field (API) connections. Blow apart of an oil field connection can result in serious injuries.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

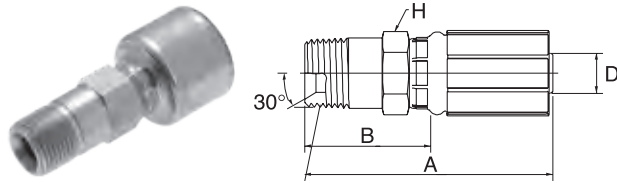


# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## NPTF MPLN

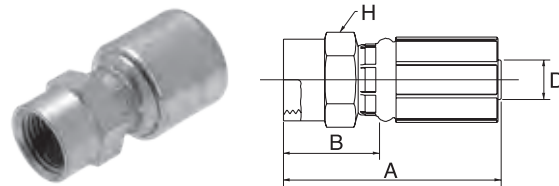
Male NPTF pipe (Long Nose).



↔			🌀	↔	🌀		
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	G
-4	6	1/4	1/4" - 18 NPTF	65.0	39.0	14.3	4G4MPLN
-4	6	1/4	3/8" - 18 NPTF	65.0	39.0	17.5	4G6MPLN
-6	10	3/8	1/4" - 18 NPTF	69.0	41.1	15.9	6G4MPLN
-6	10	3/8	3/8" - 18 NPTF	69.0	41.1	17.5	6G6MPLN

## NPTF FP

Female NPTF pipe.



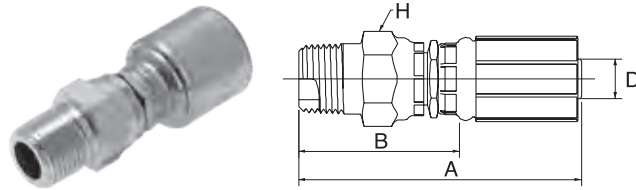
↔			🌀	↔	🌀		
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	G
-4	6	1/4	1/8" - 27 NPTF	44.3	18.3	14.3	4G2FP
-4	6	1/4	1/4" - 18 NPTF	50.5	24.5	17.5	4G4FP
-4	6	1/4	3/8" - 18 NPTF	50.5	24.5	20.6	4G6FP
-6	10	3/8	1/4" - 18 NPTF	51.0	23.1	17.5	6G4FP
-6	10	3/8	3/8" - 18 NPTF	52.5	24.6	20.6	6G6FP
-6	10	3/8	1/2" - 14 NPTF	57.1	29.2	25.4	6G8FP
-8	12	1/2	3/8" - 18 NPTF	62.5	25.0	20.6	8G6FP
-8	12	1/2	1/2" - 14 NPTF	67.0	29.5	25.4	8G8FP
-12	20	3/4	3/4" - 14 NPTF	82.0	31.0	31.8	12G12FP

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## NPTF MPX

Male NPTF pipe swivel.

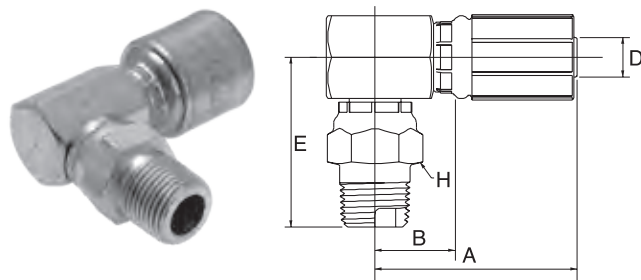


D				A	B	H	REF.
-size	DN	"		mm	mm	mm	G
-4	6	1/4	1/4" - 18 NPTF	66.3	40.2	17.5	4G4MPX
-4	6	1/4	3/8" - 18 NPTF	69.5	43.5	22.2	4G6MPX
-4	6	1/4	1/2" - 14 NPTF	75.4	49.4	25.4	4G8MPX
-6	10	3/8	1/4" - 18 NPTF	72.8	44.9	22.2	6G4MPX
-6	10	3/8	3/8" - 18 NPTF	71.5	43.6	22.2	6G6MPX
-6	10	3/8	1/2" - 14 NPTF	77.4	49.5	25.4	6G8MPX
-8	12	1/2	3/8" - 18 NPTF	82.0	44.6	22.2	8G6MPX
-8	12	1/2	1/2" - 14 NPTF	86.9	49.4	25.4	8G8MPX
-10	16	5/8	3/4" - 14 NPTF	88.5	51.1	33.3	10G12MPX
-12	20	3/4	1/2" - 14 NPTF	100.9	49.9	27.0	12G8MPX
-12	20	3/4	3/4" - 14 NPTF	102.0	51.0	33.3	12G12MPX
-16	25	1	1" - 11.5 NPTF	120.2	63.4	41.3	16G16MPX

Note: Internal seal rings are NBR material. Coupling cannot be swivelled under pressure. Not to be used as a live swivel.

## NPTF MPX90

Male NPTF pipe swivel.  
90° block elbow.



D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	1/4" - 18 NPTF	44.5	18.4	41.3	17.5	4G4MPX90
-4	6	1/4	3/8" - 18 NPTF	46.3	20.2	44.0	22.2	4G6MPX90
-6	10	3/8	1/4" - 18 NPTF	49.7	21.7	42.1	17.5	6G4MPX90
-6	10	3/8	3/8" - 18 NPTF	49.7	21.7	44.8	22.2	6G6MPX90
-6	10	3/8	1/2" - 14 NPTF	49.7	21.7	49.1	25.4	6G8MPX90
-8	12	1/2	3/8" - 18 NPTF	64.7	27.2	48.0	22.2	8G6MPX90
-8	12	1/2	1/2" - 14 NPTF	64.7	27.2	52.3	25.4	8G8MPX90
-12	20	3/4	3/4" - 14 NPTF	80.7	29.7	58.4	34.9	12G12MPX90

Note: Not to be used as a live swivel.

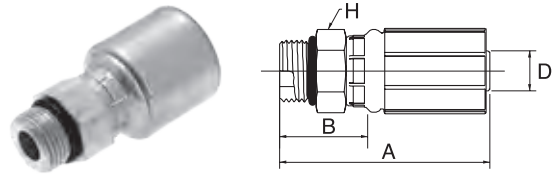
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## UNF MB

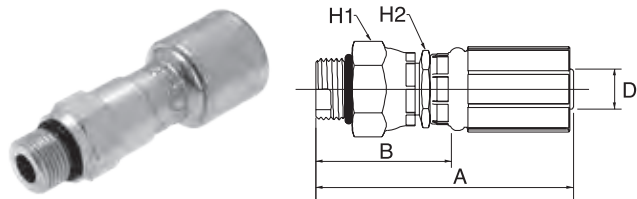
Male SAE 'O' ring boss. SAE J1926/3.  
ISO 11926/3 light duty (L series).



↔			🌀	↔			📏
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	G
-4	6	1/4	7/16" - 20 UNF	50.5	24.5	14.3	4G4MB
-4	6	1/4	1/2" - 20 UNF	50.5	24.5	15.9	4G5MB
-4	6	1/4	9/16" - 18 UNF	52.0	26.0	17.5	4G6MB
-6	10	3/8	9/16" - 18 UNF	56.0	28.1	17.5	6G6MB
-6	10	3/8	3/4" - 16 UNF	58.0	30.1	22.2	6G8MB
-6	10	3/8	7/8" - 14 UNF	56.5	28.6	25.4	6G10MB
-6	10	3/8	1.1/16" - 12 UN	61.5	33.6	31.8	6G12MB
-8	12	1/2	3/4" - 16 UNF	67.0	29.5	22.2	8G8MB
-8	12	1/2	7/8" - 14 UNF	68.0	30.5	25.4	8G10MB
-8	12	1/2	1.1/16" - 12 UN	74.0	36.5	31.8	8G12MB
-10	16	5/8	3/4" - 16 UNF	72.0	34.5	23.8	10G8MB
-10	16	5/8	7/8" - 14 UNF	72.0	34.5	25.4	10G10MB
-10	16	5/8	1.1/16" - 12 UN	76.0	38.5	31.8	10G12MB
-12	20	3/4	1.1/16" - 12 UN	84.5	33.5	31.8	12G12MB
-12	20	3/4	1.3/16" - 12 UN	84.0	33.0	34.9	12G14MB
-12	20	3/4	1.5/16" - 12 UN	87.5	36.5	38.1	12G16MB
-16	25	1	1.3/16" - 12 UN	96.0	39.2	34.9	16G14MB
-16	25	1	1.5/16" - 12 UN	97.5	40.7	38.1	16G16MB
-20	32	1.1/4	1.5/8" - 12 UN	99.0	40.0	47.6	20G20MB

## UNF MBX

Male SAE 'O' ring boss swivel.  
SAE J1926/3. ISO 11926/3 light duty (L series).



↔			🌀	↔				📏
D				A	B	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	G
-4	6	1/4	9/16" - 18 UNF	81.5	55.5	19.0		4G6MBX
-6	10	3/8	9/16" - 18 UNF	84.5	56.6	22.0		6G6MBX
-6	10	3/8	3/4" - 16 UNF	84.5	56.6	24.0		6G8MBX
-6	10	3/8	7/8" - 14 UNF	81.5	53.6	27.0		6G10MBX
-8	12	1/2	3/4" - 16 UNF	96.0	58.5	24.0		8G8MBX
-8	12	1/2	7/8" - 14 UNF	97.5	60.0	27.0		8G10MBX
-12	20	3/4	1.1/16" - 12 UN	115.5	64.5	32.0		12G12MBX

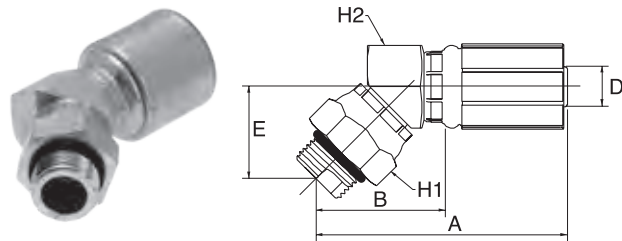
Note: Not to be used as a live swivel.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## UNF MBX45

Male SAE 'O' ring boss swivel.  
SAE J1926/3. ISO 11926/3 light duty (L series).  
45° block elbow.

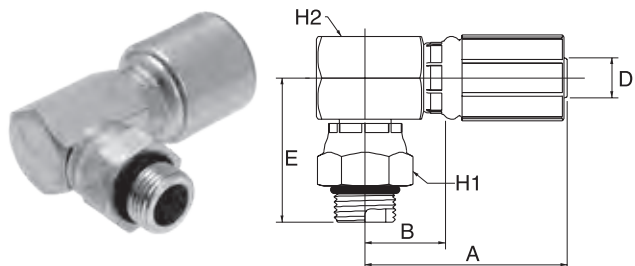


↻			🌀	↔	↻				📏
D				A	B	E	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	mm	G
-6	10	3/8	9/16" - 18 UNF	79.0	51.0	27.8	22.2	19.1	6G6MBX45
-6	10	3/8	3/4" - 16 UNF	78.1	50.2	26.9	25.4	19.1	6G8MBX45
-8	12	1/2	3/4" - 16 UNF	77.2	39.7	28.4	25.4	25.4	8G8MBX45

Note: Internal seal rings are NBR material. Coupling cannot be swivelled under pressure. Not to be used as a live swivel.

## UNF MBX90

Male SAE 'O' ring boss swivel.  
SAE J1926/3. ISO 11926/3 light duty (L series).  
90° block elbow.



↻			🌀	↔	↻				📏
D				A	B	E	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	mm	G
-4	6	1/4	9/16" - 18 UNF	46.3	20.2	41.7	22.2	17.5	4G6MBX90
-6	10	3/8	9/16" - 18 UNF	62.8	34.8	63.1	22.0		6G6MBX90
-6	10	3/8	3/4" - 16 UNF	49.7	21.7	41.3	25.4	19.1	6G8MBX90
-6	10	3/8	7/8" - 14 UNF	49.7	21.7	42.8	25.4	19.1	6G10MBX90
-8	12	1/2	3/4" - 16 UNF	64.7	27.2	31.7	25.4	25.4	8G8MBX90
-8	12	1/2	7/8" - 14 UNF	80.3	42.9	71.6	27.0		8G10MBX90
-8	12	1/2	1.1/16" - 12 UN	80.3	42.9	73.6	32.0		8G12MBX90
-10	16	5/8	7/8" - 14 UNF	60.9	23.4	39.6	25.4	25.4	10G10MBX90
-12	20	3/4	1.1/16" - 12 UN	110.1	59.1	86.8	32.0		12G12MBX90

Note: Internal seal rings are NBR material. Coupling cannot be swivelled under pressure. Not to be used as a live swivel.

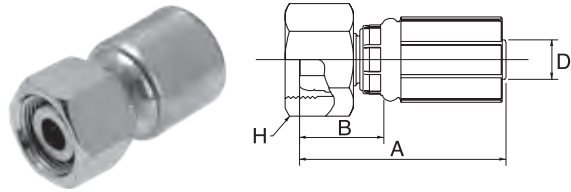
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## FG FFGX

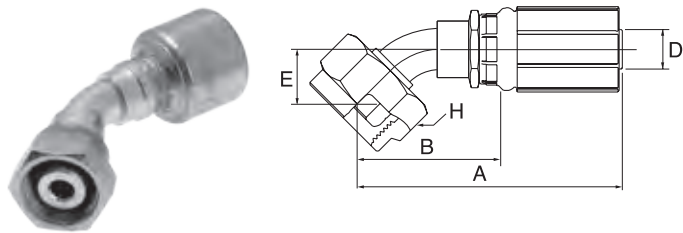
Female French Gaz swivel. 24° cone.



↔			🌀	↔			🌀
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	G
-4	6	1/4	M20 x 1.5	47.0	21.0	24.0	4G13FFGX
-5	8	5/16	M20 x 1.5	51.6	23.6	24.0	5G13FFGX
-6	10	3/8	M20 x 1.5	49.0	21.1	24.0	6G13FFGX
-8	12	1/2	M24 x 1.5	61.0	23.5	30.0	8G17FFGX
-10	16	5/8	M30 x 1.5	59.5	22.0	36.0	10G21FFGX
-12	20	3/4	M36 x 1.5	74.0	23.0	46.0	12G27FFGX
-16	25	1	M45 x 1.5	83.0	26.2	55.0	16G34FFGX
-20	32	1.1/4	M52 x 1.5	85.5	26.5	60.0	20G42FFGX

## FG FFGX45

Female French Gaz flare swivel.  
24° cone. 45° swept elbow.



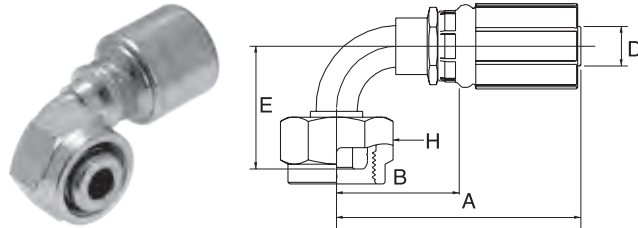
↔			🌀	↔			🌀	
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	G
-6	10	3/8	M20 x 1.5	78.1	50.2	25.2	24.0	6G13FFGX45

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## FG FFGX90

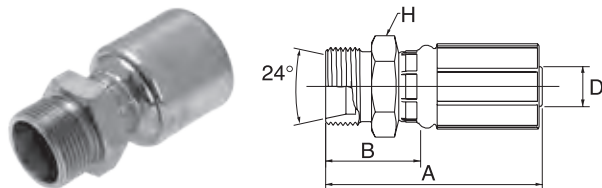
Female French Gaz swivel.  
24° cone. 90° swept elbow.



D				A B E H				REF.
-size	DN	"		mm	mm	mm	mm	G
-5	8	5/16	M20 x 1.5	64.1	36.1	46.7	24.0	5G13FFGX90
-6	10	3/8	M20 x 1.5	64.1	36.2	46.7	24.0	6G13FFGX90
-8	12	1/2	M24 x 1.5	74.3	36.9	37.8	30.0	8G17FFGX90
-10	16	5/8	M30 x 1.5	79.0	41.6	45.0	36.0	10G21FFGX90
-12	20	3/4	M30 x 1.5	109.6	58.6	71.2	46.0	12G27FFGX90

## FG MFG

Male French Gaz parallel. 24° inverted cone.



D				A B H			REF.
-size	DN	"		mm	mm	mm	G
-5	8	5/16	M20 x 1.5	54.6	26.6	24.0	5G13MFG
-6	10	3/8	M20 x 1.5	54.4	26.5	24.0	6G13MFG
-8	12	1/2	M24 x 1.5	66.5	29.0	27.0	8G17MFG
-10	16	5/8	M30 x 1.5	70.0	32.5	32.0	10G21MFG
-12	20	3/4	M36 x 1.5	84.0	33.0	41.0	12G27MFG
-16	25	1	M45 x 1.5	94.0	37.2	46.0	16G34MFG
-20	32	1.1/4	M52 x 1.5	100.0	41.0	55.0	20G42MFG

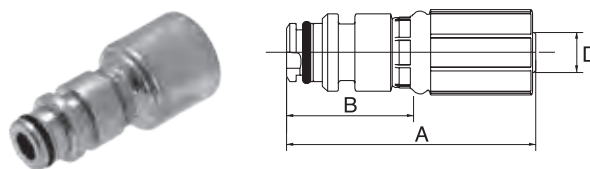
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## PL

Male Press-Lok stem.

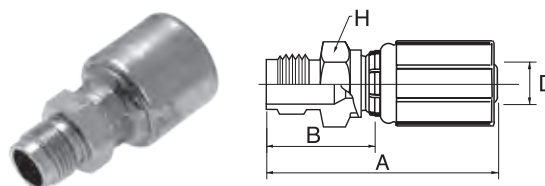


↔			↔		🌀
D			A	B	REF.
-size	DN	"	mm	mm	G
-4	6	1/4	65.0	39.0	4G4PL
-6	10	3/8	67.0	39.1	6G6PL
-8	12	1/2	76.5	39.0	8G8PL
-12	20	3/4	90.5	39.5	12G12PL

Note: 4G4PL: 40 MPa dynamic working pressure; 6G6PL: 30 MPa dynamic working pressure; 8G8PL: 27.5 MPa dynamic working pressure; 12G12PL: 21.5 MPa dynamic working pressure.

## AV

Male agricultural valve.



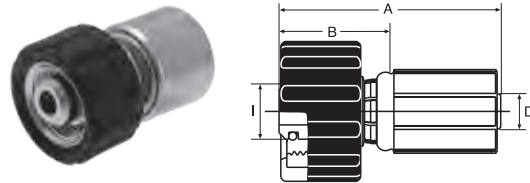
↔			🌀	↔			🌀
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	G
-5	8	5/16	M18 x 1.5	59.5	31.5	22.0	5G18AV
-6	10	3/8	M18 x 1.5	59.0	31.1	22.0	6G18AV
-8	12	1/2	M18 x 1.5	68.5	31.0	22.0	8G18AV





Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## POWERWASH FPWX

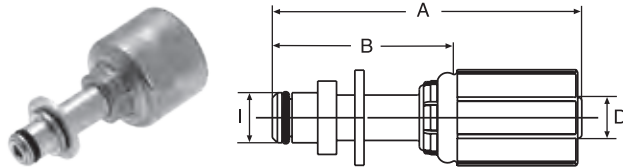
Female PowerWash swivel.






							
D				A	B	I	REF.
-size	DN	"		mm	mm	mm	G
-4	6	1/4	M22 x 1.5	54.0	28.0	13.9	4G15FPWX
-5	8	5/16	M22 x 1.5	55.5	27.5	13.9	5G15FPWX
-6	10	3/8	M22 x 1.5	55.5	27.6	13.9	6G15FPWX

## POWERWASH PWSP

Male PowerWash standpipe with 'O' ring.



							
D				A	B	I	REF.
-size	DN	"		mm	mm	mm	G
-4	6	1/4		60.5	34.5	9.9	4G10PWSP
-5	8	5/16		64.5	36.5	9.9	5G10PWSP
-5	8	5/16		67.5	39.5	10.9	5G11PWSP
-6	10	3/8		64.5	36.6	9.9	6G10PWSP
-6	10	3/8		67.5	39.6	10.9	6G11PWSP

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

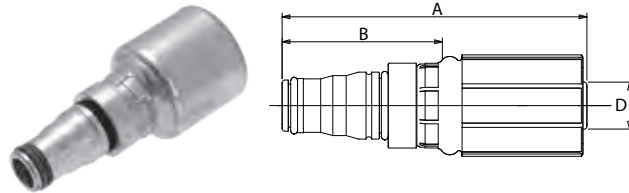


# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

THE WORLD OF COUPLINGS

## MLQH

Male Quick-Lok™ High.

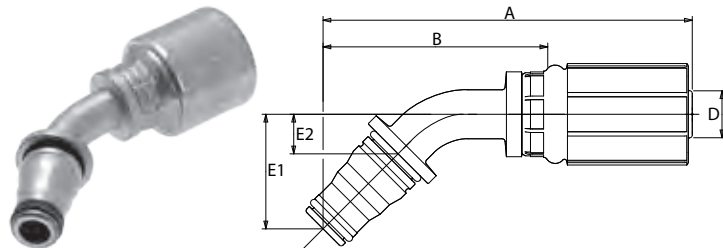


↻			QLH	↔		🔗
D				A	B	REF.
-size	DN	"		mm	mm	G
-04	6	1/4	4MLQH	67.0	41.0	4G4MLQH
-06	10	3/8	6MLQH	69.0	41.1	6G6MLQH
-08	12	1/2	8MLQH	79.0	41.5	8G8MLQH
-10	16	5/8	10MLQH	79.0	41.5	10G10MLQH
-12	20	3/4	12MLQH	93.0	42.0	12G12MLQH
-16	25	1	16MLQH	101.0	44.2	16G16MLQH

-4 to -8 size are 35.0 MPa (5000 psi); -10 & -12 size are 28.0 MPa (4000 psi); -16 size is 21.0 MPa (3000 psi). / Note: not to be used as a live swivel.

## MLQH45

Male Quick-Lok™ High.  
45° swept elbow.



↻			QLH	↔				🔗
D				A	B	E1	E2	REF.
-size	DN	"		mm	mm	mm	mm	G
-04	6	1/4	4MLQH45	75.1	49.1	26.9	7.5	4G4MLQH45
-06	10	3/8	6MLQH45	81.6	53.7	27.7	8.3	6G6MLQH45
-08	12	1/2	8MLQH45	95.7	58.2	29.7	10.3	8G8MLQH45
-10	16	5/8	10MLQH45	104.6	67.1	32.1	12.7	10G10MLQH45
-12	20	3/4	12MLQH45	124.0	73.0	33.6	14.2	12G12MLQH45
-16	25	1	16MLQH45	139.5	82.7	36.1	16.7	16G16MLQH45

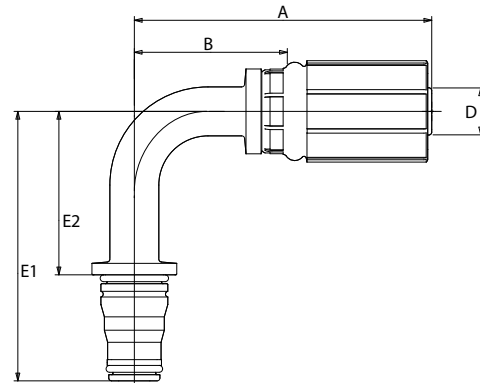
-4 to -8 size are 35.0 MPa (5000 psi); -10 & -12 size are 28.0 MPa (4000 psi); -16 size is 21.0 MPa (3000 psi). / Note: not to be used as a live swivel.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE AND TEXTILE BRAIDED HOSES MEGACRIMP®

## MQLH90

Male Quick-Lok™ High.  
90° swept elbow.

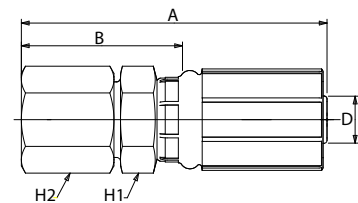


↔			QLH	↔				
D				A	B	E1	E2	REF.
-size	DN	"		mm	mm	mm	mm	G
-04	6	1/4	4MQLH90S	55.6	29.6	45.5	18.0	4G4MQLH90S
-06	10	3/8	6MQLH90S	62.8	34.8	47.6	20.1	6G6MQLH90S
-08	12	1/2	8MQLH90S	80.3	42.9	53.1	25.6	8G8MQLH90S
-10	16	5/8	10MQLH90S	90.1	52.6	60.3	32.8	10G10MQLH90S
-12	20	3/4	12MQLH90S	110.1	59.1	64.3	36.8	12G12MQLH90S
-16	25	1	16MQLH90S	139.1	82.3	71.3	43.8	16G16MQLH90S

-4 to -8 size are 35.0 MPa (5000 psi); -10 & -12 size are 28.0 MPa (4000 psi); -16 size is 21.0 MPa (3000 psi). / Note: not to be used as a live swivel.

## FQLH

Female Quick-Lok™ High.



↔			QLH	↔				
D				A	B	H1	H2	REF.
-size	DN	"		mm	mm	mm	mm	G
-04	6	1/4	4FQLH	67.7	41.7	19.1	19.0	4G4FQLH
-06	10	3/8	6FQLH	69.7	41.8	22.0	22.0	6G6FQLH
-08	12	1/2	8FQLH	79.2	41.8	24.0	24.0	8G8FQLH
-10	16	5/8	10FQLH	80.3	42.8	27.0	30.0	10G10FQLH
-12	20	3/4	12FQLH	89.7	38.7	32.0	36.0	12G12FQLH
-16	25	1	16FQLH	101.7	44.9	41.0	41.0	16G16FQLH

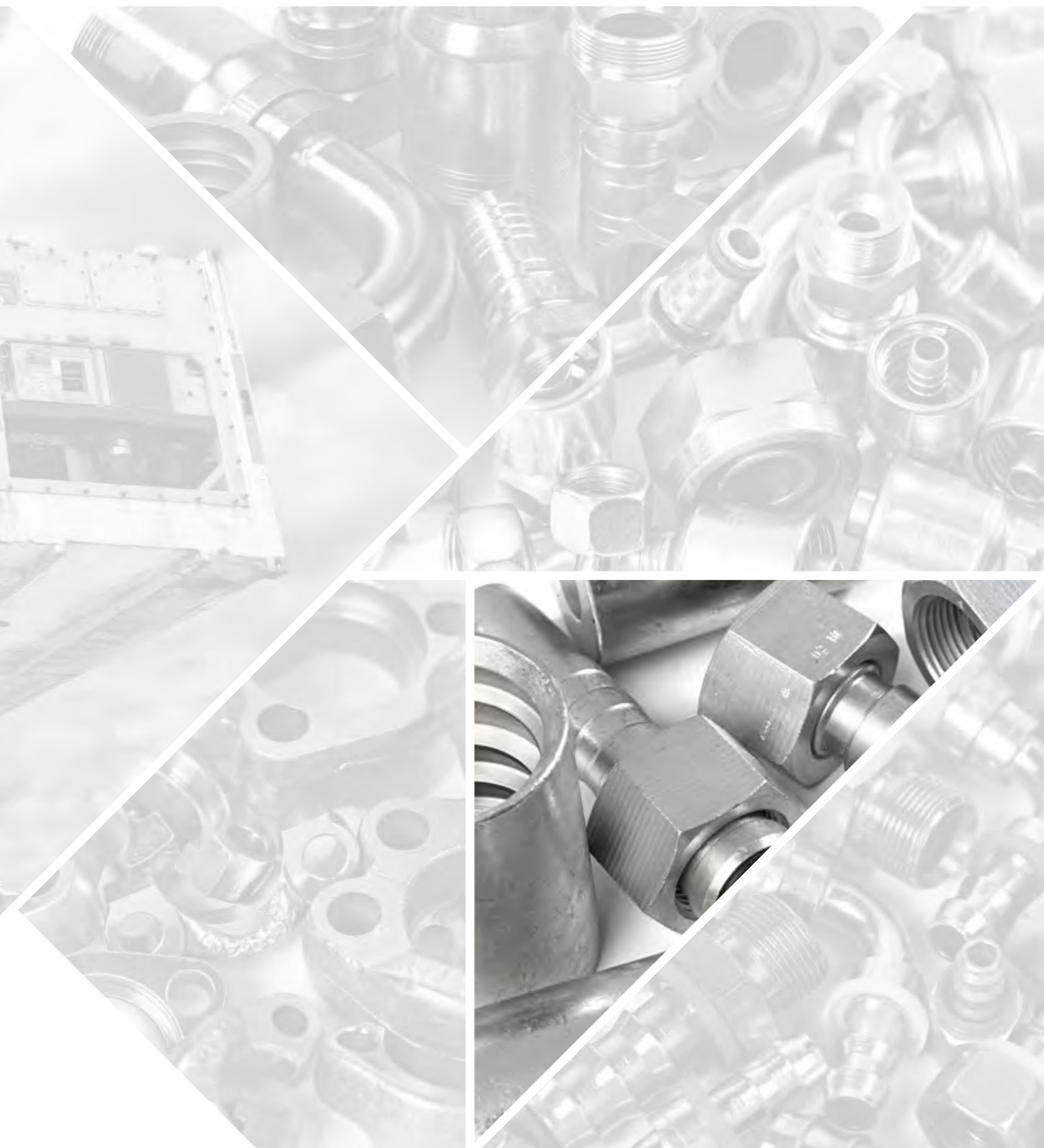
-4 to -8 size are 35.0 MPa (5000 psi); -10 & -12 size are 28.0 MPa (4000 psi); -16 size is 21.0 MPa (3000 psi). / Note: not to be used as a live swivel.

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

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INTEGRATED FLUID POWER SOLUTIONS



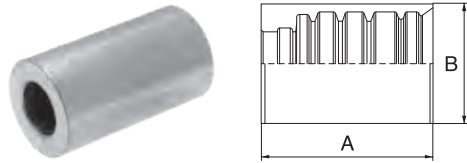
# COUPLINGS FOR WIRE SPIRAL BLASTING HOSES



# COUPLINGS FOR WIRE SPIRAL BLASTING HOSES WATERBLAST

THE WORLD OF COUPLINGS

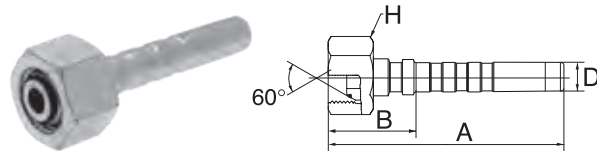
## SKIVE FERRULES



D			A	B	REF.
-size	DN	"	mm	mm	WTB
-6	10	3/8	45.0	28.0	6WTB2F-4
-8	12	1/2"	60.0	33.0	8WTB2F-4
-12	20	3/4"	66.0	46.0	12WTB2F-1

## BSP FBSPORX

Female BSP 'O' ring swivel. 60° cone.



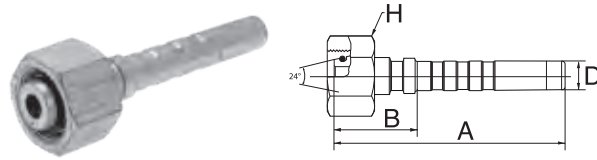
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	WTB
-6	10	3/8	G 3/8"	73.8	23.8	22.2	6WTB6FBSPORX-SP
-8	12	1/2"	G 1/2"	88.7	23.7	29.0	8WTB8FBSPORX-SP
-12	20	3/4"	G 3/4"	103.0	29.0	34.0	12WTB12FBSPORX-SP

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR WIRE SPIRAL BLASTING HOSES WATERBLAST

## DIN 24° FDHORX

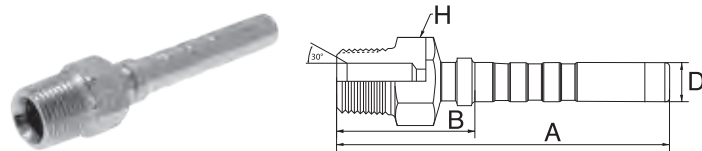
Female DIN 'O' ring swivel. 24° cone.  
Heavy series.



↔			🌀	↔	🌀		
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	WTB
-6	10	3/8	M22 x 1.5	85.0	35.0	27.0	6WTB14FDHORX
-8	12	1/2	M24 x 1.5	101.8	36.8	30.0	8WTB16FDHORX
-12	20	3/4	M36 x 2.0	121.5	47.5	46.0	12WTB25FDHORX

## NPTF MP

Male NPTF pipe.



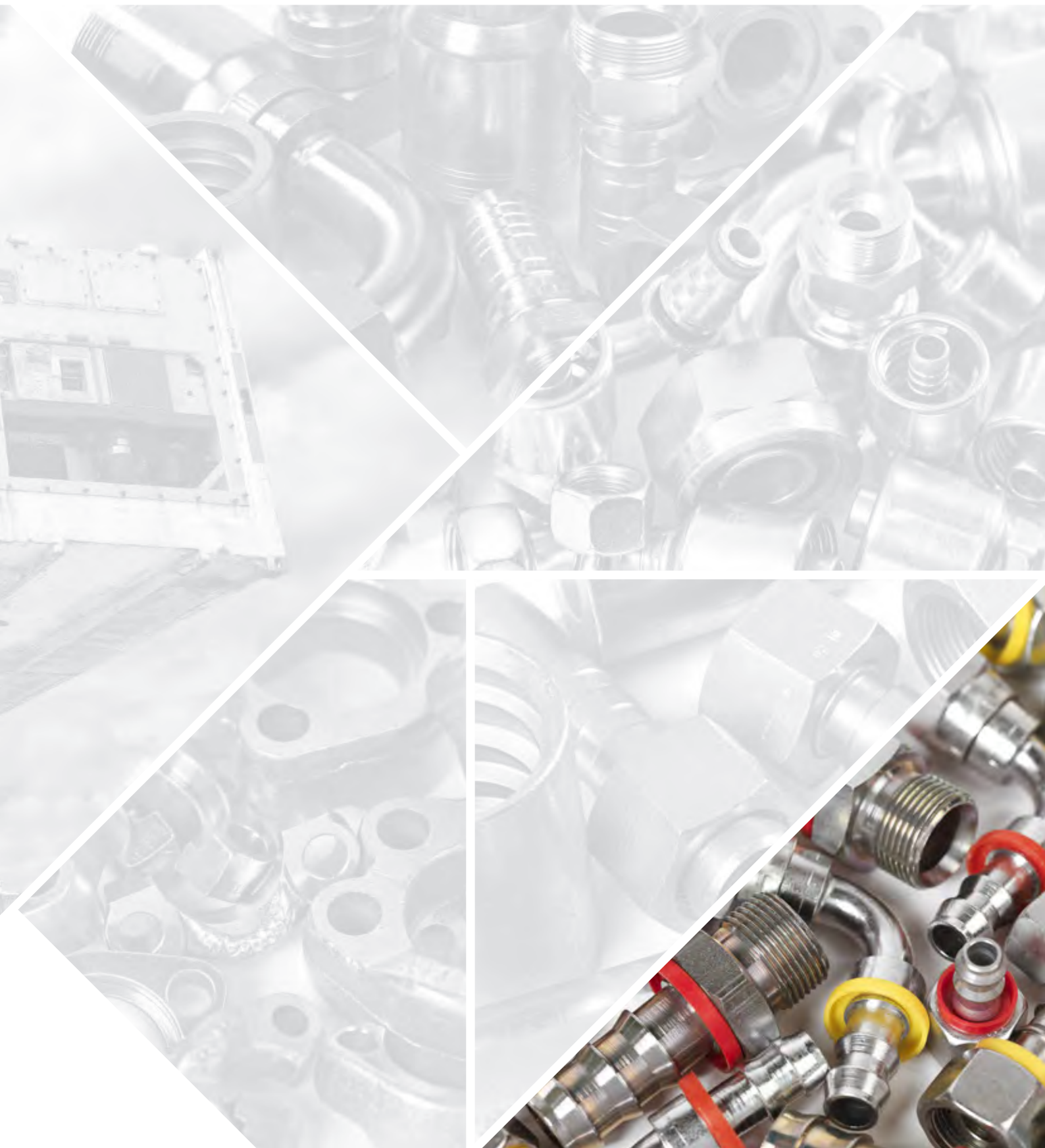
↔			🌀	↔	🌀		
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	WTB
-6	10	3/8	3/8" - 18 NPTF	89.6	39.6	19.0	6WTB6MP
-8	12	1/2	1/2" - 14 NPTF	109.6	44.6	22.0	8WTB8MP
-12	20	3/4	3/4" - 14 NPTF	120.5	46.5	27.0	12WTB12MP

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# COUPLINGS FOR PUSH-ON TEXTILE HOSES



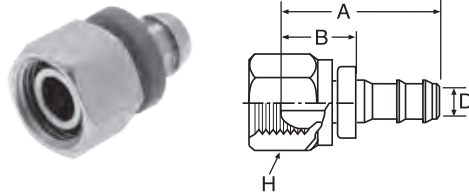


# COUPLINGS FOR PUSH-ON TEXTILE HOSES LOCK-ON

THE WORLD OF COUPLINGS

## BSP FBSPPX

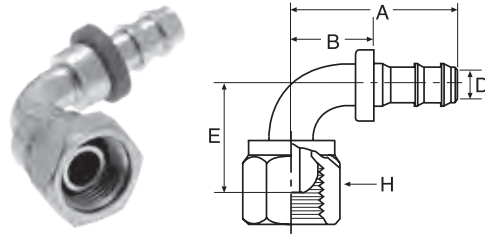
Female BSP swivel. 60° cone (Ball Nose).



D				A B H			REF.
-size	DN	"		mm	mm	mm	LOC
-4	6	1/4	1/4" - 19 BSP	29.5	9.0	15.2	4LOC4FBSPPX
-6	10	3/8	3/8" - 19 BSP	32.4	9.0	20.8	6LOC6FBSPPX
-8	13	1/2	1/2" - 14 BSP	37.6	10.0	23.4	8LOC8FBSPPX
-12	19	3/4	3/4" - 14 BSP	60.2	14.0	33.0	12LOC12FBSPPX

## BSP FBSPPX90

Female BSP swivel. 60° cone (Ball Nose).  
90° swept elbow.



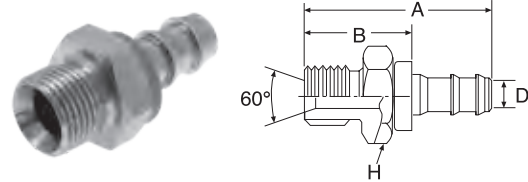
D				A B E H				REF.
-size	DN	"		mm	mm	mm	mm	LOC
-4	6	1/4	1/4" - 19 BSP	42.9	21.6	31.1	18.0	4LOC4FBSPPX90
-6	10	3/8	3/8" - 19 BSP	51.8	27.0	39.1	20.8	6LOC6FBSPPX90
-8	13	1/2	1/2" - 14 BSP	63.0	33.6	44.5	25.7	8LOC8FBSPPX90
-12	19	3/4	3/4" - 14 BSP	87.5	44.5	54.4	33.0	12LOC12FBSPPX90

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR PUSH-ON TEXTILE HOSES LOCK-ON

## BSP MBSPP

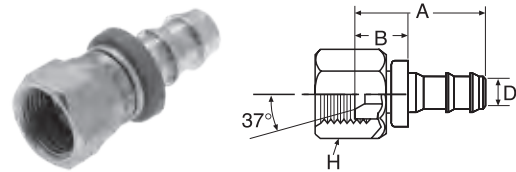
Male BSP parallel. 60° inverted cone.



↔			🌀	↔	🌀		
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	LOC
-4	6	1/4	1/4" - 19 BSP	41.1	20.0	18.0	4LOC4MBSPP
-6	10	3/8	1/4" - 19 BSP	40.0	19.0	19.0	6LOC4MBSPP
-6	10	3/8	3/8" - 19 BSP	46.9	22.5	23.4	6LOC6MBSPP
-8	13	1/2	1/2" - 14 BSP	55.5	26.1	25.7	8LOC8MBSPP
-12	19	3/4	3/4" - 14 BSP	73.7	30.5	33.0	12LOC12MBSPP

## JIC 37° FJX

Female JIC swivel. 37° inverted cone.



↔			🌀	↔	🌀		
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	LOC
-4	6	1/4	7/16" - 20 UNF	33.1	11.8	14.2	4LOC4FJX
-6	10	3/8	9/16" - 18 UNF	37.8	13.0	17.4	6LOC6FJX
-8	13	1/2	3/4" - 16 UNF	44.9	16.3	22.3	8LOC8FJX
-10	16	5/8	7/8" - 14 UNF	58.3	17.5	25.7	10LOC10FJX
-12	19	3/4	1.1/16" - 12 UN	61.7	18.5	31.8	12LOC12FJX

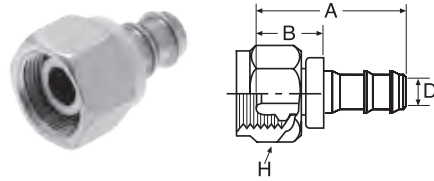
Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.





# COUPLINGS FOR PUSH-ON TEXTILE HOSES LOCK-ON

THE WORLD OF COUPLINGS

## DIN 24° / 60° FDLX

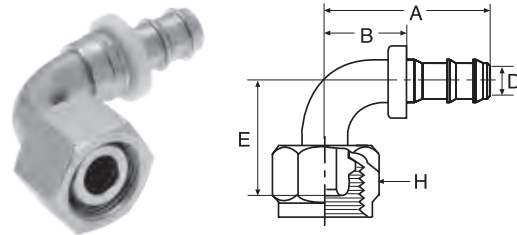
Female DIN swivel. 24°/60° cone.  
Light series.







							
D				A	B	H	REF.
-size	DN	"		mm	mm	mm	LOC
-4	6	1/4	M12 x 1.5	37.5	19.5	17.0	4LOC6FDLX
-4	6	1/4	M14 x 1.5	33.5	12.0	17.0	4LOC8FDLX
-6	10	3/8	M16 x 1.5	37.5	12.0	19.0	6LOC10FDLX
-6	10	3/8	M18 x 1.5	37.5	12.0	22.0	6LOC12FDLX
-8	12	1/2	M22 x 1.5	43.8	15.1	27.0	8LOC15FDLX
-10	16	5/8	M26 x 1.5	57.3	13.8	32.0	10LOC18FDLX
-12	20	3/4	M30 x 2.0	59.4	14.0	36.0	12LOC22FDLX

## DIN 24° / 60° FDLX90

Female DIN swivel. 24°/60° cone.  
Light series. 90° swept elbow.



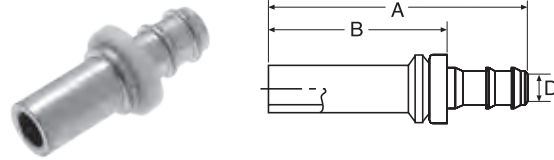
								
D				A	B	E	H	REF.
-size	DN	"		mm	mm	mm	mm	LOC
-4	6	1/4	M12 x 1.5	39.1	21.1	30.5	14.0	4LOC6FDLX90
-4	6	1/4	M14 x 1.5	42.1	24.1	33.5	17.0	4LOC8FDLX90
-6	10	3/8	M16 x 1.5	48.1	27.1	39.5	19.0	6LOC10FDLX90
-6	10	3/8	M18 x 1.5	51.9	30.9	42.5	22.0	6LOC12FDLX90
-8	12	1/2	M22 x 1.5	60.7	37.0	44.9	27.0	8LOC15FDLX90
-10	16	5/8	M26 x 1.5	79.2	41.0	51.4	32.0	10LOC18FDLX90
-12	20	3/4	M30 x 2.0	88.2	49.8	57.4	36.0	12LOC22FDLX90

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

# COUPLINGS FOR PUSH-ON TEXTILE HOSES LOCK-ON

## METRIC MSP

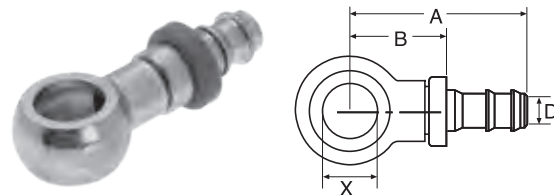
Metric standpipe.



↔			↔		🔧
D			A	B	REF.
-size	DN	"	mm	mm	LOC
-4	6	1/4	47.0	29.0	4LOC8MSP
-6	10	3/8	51.0	30.0	6LOC10MSP
-6	10	3/8	51.0	30.0	6LOC12MSP
-8	12	1/2	54.8	31.1	8LOC15MSP
-10	16	5/8	68.3	30.0	10LOC18MSP
-12	20	3/4	70.4	32.0	12LOC22MSP

## METRIC DBJ

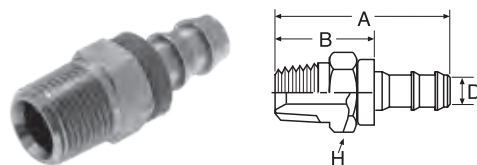
Metric banjo.



↔			🔧	↔			🔧
D			A	B	X	REF.	
-size	DN	"	mm	mm	mm	G	
-4	6	1/4	M10	42.5	24.5	10.1	4LOC10DBJ
-6	10	3/8	M14	49.5	28.5	14.1	6LOC14DBJ

## NPTF MP

Male NPTF pipe.



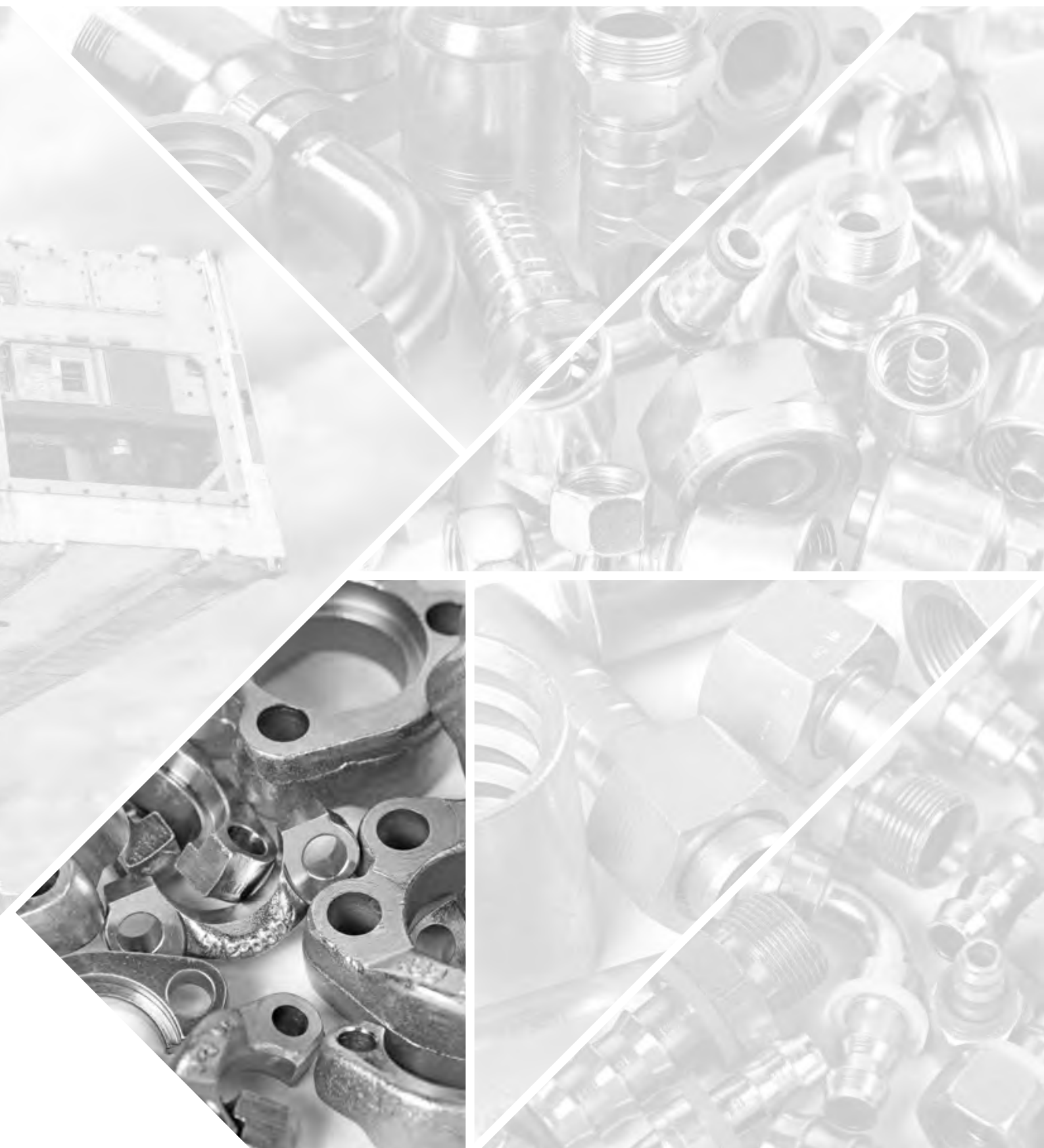
↔			🔧	↔			🔧
D			A	B	H	REF.	
-size	DN	"	mm	mm	mm	LOC	
-4	6	1/4	1/4" - 18 NPTF	45.2	24.0	14.3	4LOC4MP
-6	10	3/8	3/8" - 18 NPTF	48.7	24.0	17.4	6LOC6MP
-8	13	1/2	1/2" - 14 NPTF	58.9	30.5	22.0	8LOC8MP
-12	19	3/4	3/4" - 14 NPTF	73.1	30.0	27.9	12LOC12MP

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

**THE WORLD OF COUPLINGS**  
INTEGRATED FLUID POWER SOLUTIONS



# ACCESSORIES

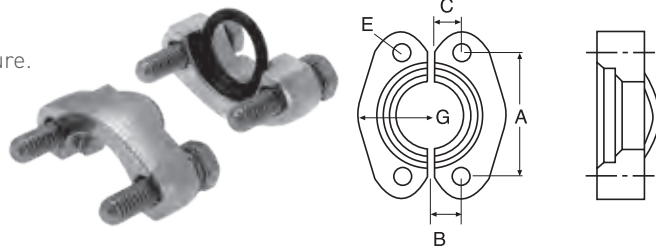


## ACCESSORIES FLANGE KITS

THE WORLD OF COUPLINGS

### SAE PA-FL FLANGE KIT

SAE flange kit. Code 61. SAE standard pressure.  
Each kit comprises:  
- 2 flange halves (PA-FL75)  
- 4 bolts  
- 4 washers  
- 'O' ring (PA-FL77)

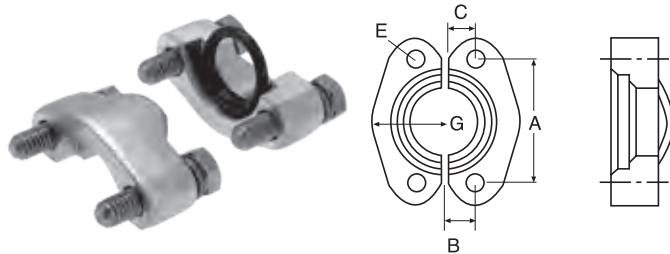


↔			⌚	↔				⌚
D				A	B	D	E	REF.
-size	DN	"		mm	mm	mm	mm	PA-FL
-8	12	1/2	35.0	38.1	8.8	54.0	8.9	8PA-FL
-12	20	3/4	35.0	47.6	11.1	65.1	10.6	12PA-FL
-16	25	1	35.0	52.4	13.1	69.9	10.6	16PA-FL
-20	32	1.1/4	28.0	58.7	15.1	79.4	12.0	20PA-FL
-24	40	1.1/2	21.0	69.9	17.9	93.8	13.3	24PA-FL
-32	50	2	21.0	77.8	21.5	101.6	13.5	32PA-FL

Code 61: -16 size is 35.0 MPa (5000 psi).

### SAE PH-FLH FLANGE KIT

SAE flange kit. Code 62. SAE high pressure.  
Each kit comprises:  
- 2 flange halves (PH-FLH75)  
- 4 bolts  
- 4 washers  
- 'O' ring (PH-FLH77)



↔			⌚	↔				⌚
D				A	B	D	E	REF.
-size	DN	"		mm	mm	mm	mm	PA-FL
-8	12	1/2	42.0	40.5	9.1	56.4	8.9	8PH-FLH
-12	20	3/4	42.0	50.8	11.9	71.4	10.6	12PH-FLH
-16	25	1	42.0	57.2	13.9	81.1	12.0	16PH-FLH
-20	32	1.1/4	42.0	66.7	15.9	95.3	13.3	20PH-FLH
-24	40	1.1/2	42.0	79.4	18.3	112.8	16.7	24PH-FLH
-32	50	2	42.0	96.8	22.3	133.4	20.6	32PH-FLH

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.

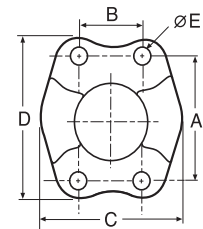
## ACCESSORIES FLANGE KITS

### SAE PH-FLH MONOBLOC KIT

SAE flange kit. Code 62 (metric). SAE high pressure.

Each kit comprises:

- dual flange
- 4 bolts
- 4 washers
- 'O' ring



↔			⌚	↔					⌚
D				A	B	C	D	E	REF.
-size	DN	"		mm	mm	mm	mm	mm	PA-FL
-8	13	1/2	40.0	40.5	18.2	47.8	56.4	8.9	8FLHCFM
-12	19	3/4	40.0	50.8	23.8	60.5	71.4	10.6	12FLHCFM
-16	25	1	40.0	57.2	27.8	69.9	81.1	13.3	16FLHCFM
-20	32	1.1/4	40.0	66.7	31.8	77.7	95.3	13.3	20FLHCFM
-24	38	1.1/2	40.0	79.4	36.5	95.3	112.8	16.7	24FLHCFM
-32	51	2	40.0	96.8	44.5	114.3	133.4	20.6	32FLHCFM

Unless otherwise stated the coupling meets the pressure rating requirements of the respective international standard.