



## LAND DRILLERS AND WELL SERVICING

- Hose
- Couplings
- HP adaptors and Valves
- Hammer Unions
- Hose Protection
- Equipment

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## ADAPTORS AND VALVES - 10 TO 60K



## TRU-FIT 10K FITTINGS

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TruFit 10K Pipe and Adapter Fittings are designed and manufactured to provide a reliable connection in high pressure systems running to 10,000 psi. Manufactured from fully-traceable raw material to close tolerances and superior surface finishes.

## SPECIFICATION AND APPLICATION GUIDELINES

APPLICATION PARAMETER	TAPERED THREAD	PARALLEL THREAD
Pressures	High to 10,000 psi (static systems only)	High to 10,000 psi (static & dynamic systems)
Temperatures	Stainless: -425° to 1200°F	Nitrile/Buna: -30° to 250°F Viton: -15° to 400°F
Vibration Resistance	Poor	Very Good
Materials	316/316L stainless steel to ASTM A-276 and A-479 bar stock, A-182 forgings.	316/316L stainless steel to ASTM A-276 and A-479 bar stock, A182 forgings
Size Available (nominal)	1/8" – 1"	#4 - #16
Seal Reliability	Good in static systems. Poor in dynamic systems. Medium tolerance to minor thread imperfections. Medium tolerance to assembly variation	Excellent in static systems; Very good in dynamic systems. Medium tolerance to thread & taper angle imperfections
Thread & Port Preparation	Anaerobic sealant, or pipe thread sealant or tape	General lubricant applied to threads
Ease of Assembly	Medium L1 thread gauge & basic assembly practices must be followed	High Intuitive make-up. Repeatable process
Ease of Maintenance	Limited breaks and remakes due to metal deformation of threads	Very good. Virtually unlimited breaks & remakes. O-ring replacement only
Specification Conformance (design, thread and pressure)	NPT: ANSI B1.20.1 and AS-7105 (frm. MIL-P-7105B) ISO/BSPT: ISO 7/1, JIS B0203, BS EN 10226-1	SAE: J1926, ISO 11926, ASME B1.1, ISO 263 ISO/BSPP: ISO 228, JIS B0202
Pressure Rating	ASME B31.3	ASME B31.3

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Brand  
Designator  
T=TruFit

1st end  
connection  
description

2nd end  
connection  
description

# ISS T 4 AN 4 MC -10K

Instrumentation  
Material  
Designator

1st end  
connection size  
(chart 1)

2nd end  
connection size  
(chart 1)

Indicates a  
10,000 psi  
rated fitting

CHART 2

Description of Fitting	Fitting designator
Adapter	A
37° AN Union	AN-AN
AN Cap	ANCP
37° AN Swivel Union	ANF-ANF
37°AN x 37° Swivel AN	AN-ANF
37° AN Swivel x Male NPT	ANF-MC
AN Swivel Elbow	AN-FE
AN Male Elbow	AN-ME
37° AN Swivel x Male ISO Straight	ANF-MRS
37° AN x Male NPT	AN-MC
37° AN x Male SAE	AN-MST
AN Plug	ANP
AN Union Elbow	ANUE
Elbow	E
Hex Coupling	HC
Hex Long Nipple	HLN
Hex Nipple	HN
Hex Reducing Coupling	HRC
Hex Reducing Nipple	HRN
Male NPT x Male ISO Straight	MC-MRS
Male NPT x Male SAE	MC-MST
Male Elbow	ME
BSP Nipple	MRS-MRS
Male ISO Straight x Male SAE	MRS-MST
Male Tee	MT
Pipe Cap	PC
Pipe Plug	PP
Pipe Tee	PT
Street Elbow	SE
Reducing Bushing	RB

CHART 1

Size	Part No. Size
1	1/16"
2	1/8"
4	1/4"
6	3/8"
8	1/2"
12	3/4"
16	1"
20	1-1/4"
32	2"

## CLEANLINESS

TruFit components are cleaned in accordance with documented work instructions using equipment calibrated to NIST standards with environmentally-safe and stable agents, ultrasonics, and heat/temperature to remove all residual oil, grease and loose particles. Stainless steel components are passivated to the requirements of MIL QQ-P-35 and ASTM A 967. Components are also available specially cleaned and packaged for oxygen service to ensure compliance with the product cleanliness requirements as stated in CGA G-4.1 and ASTM G 93 Level C.

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## SAFETY

To help ensure the safe and reliable performance of TruFit products, complete system design must be considered prior to installation of the pipe, tubing and fittings. Determining the design compatibility of materials, media, flows, temperatures and pressures; as well as implementing proper installation, operation and maintenance of the system are the responsibility of the systems' owners, designers and users.

- Do not install, tighten or loosen a fitting or adapter while the system is under pressure.
- Do not loosen a fitting, nut or plug to relieve or bleed system pressure.
- Always use a back-up wrench to hold the pipe or pipe fitting body steady when tightening or loosening.
- Use proper thread lubricants and sealants on tapered pipe threads.
- Tube fitting end connection and tubing material should be similar (stainless steel fittings on stainless steel tubing, brass fittings on copper tubing, etc.) with the tubing material being fully annealed.
- Do not weld tube fittings that are assembled.
- Prior to welding, remove all components such as nut, ferrule(s), o-ring, and seals. Protect the sealing and thread areas of the tube fitting by covering with a plug or another nut.

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## HN NPT x NPT Hex Nipple

PRODUCT CODE	DESCRIPTION
OGT2HN-10K	1/8" NPT Hex nipple s/s 10k
OGT4HN-10K	1/4" NPT Hex nipple s/s 10k
OGT6HN-10K	3/8" NPT Hex nipple s/s 10k
OGT8HN-10K	1/2" NPT Hex nipple s/s 10k
OGT12HN-10K	3/4" NPT Hex nipple s/s 10k
OGT16HN-10K	1" NPT Hex nipple s/s 10k
OGT32HN-10K	2" NPT Hex nipple s/s 10k



## HRN Hex Reducing Nipple

PRODUCT CODE	DESCRIPTION
OGT4HRN2-10K	1/4" x 1/8" NPT Hex Reducing nipple s/s 10k
OGT6HRN2-10K	3/8" x 1/8" NPT Hex Reducing nipple s/s 10k
OGT6HRN4-10K	3/8" x 1/4" NPT Hex Reducing nipple s/s 10k
OGT8HRN2-10K	1/2" x 1/8" NPT Hex Reducing nipple s/s 10k
OGT8HRN4-10K	1/2" x 1/4" NPT Hex Reducing nipple s/s 10k
OGT8HRN6-10K	1/2" x 3/8" NPT Hex Reducing nipple s/s 10k
OGT12HRN4-10K	3/4" x 1/4" NPT Hex Reducing nipple s/s 10k
OGT12HRN6-10K	3/4" x 3/8" NPT Hex Reducing nipple s/s 10k
OGT12HRN8-10K	3/4" x 1/2" NPT Hex Reducing nipple s/s 10k
OGT16HRN4-10K	1" x 1/4" NPT Hex Reducing nipple s/s 10k
OGT16HRN6-10K	1" x 3/8" NPT Hex Reducing nipple s/s 10k
OGT16HRN8-10K	1" x 1/2" NPT Hex Reducing nipple s/s 10k
OGT16HRN12-10K	1" x 3/4" NPT Hex Reducing nipple s/s 10k

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## HRN NPT x NPT Hex Long Nipple

PRODUCT CODE	DESCRIPTION
OGT2HLN3.0-10K	1/8" NPT x 3 inch long hex long nipple s/s 10k
OGT4HLN2.0-10K	1/4" NPT x 2 inch long hex long nipple s/s 10k
OGT4HLN3.0-10K	1/4" NPT x 3 inch long hex long nipple s/s 10k
OGT4HLN4.0-10K	1/4" NPT x 4 inch long hex long nipple s/s 10k
OGT4HLN6.0-10K	1/4" NPT x 6 inch long hex long nipple s/s 10k
OGT6HLN3.0-10K	3/8" NPT x 3 inch long hex long nipple s/s 10k
OGT6HLN4.0-10K	3/8" NPT x 4 inch long hex long nipple s/s 10k
OGT6HLN6.0-10K	3/8" NPT x 6 inch long hex long nipple s/s 10k
OGT8HLN1.5-10K	1/2" NPT x 1.5 inch long hex long nipple s/s 10k
OGT8HLN1.75-10K	1/3" NPT x 1.75 inch long hex long nipple s/s 10k
OGT8HLN3.0-10K	1/2" NPT x 3 inch long hex long nipple s/s 10k
OGT8HLN4.0-10K	1/2" NPT x 4 inch long hex long nipple s/s 10k
OGT8HLN6.0-10K	1/2" NPT x 6 inch long hex long nipple s/s 10k



## MRS-MRS BSPP x BSPP Hex Nipple

PRODUCT CODE	DESCRIPTION
OGT2MRS2MRS-10K	1/8" x 1/8" BSPP Hex Nipple s/s 10k
OGT4MRS2MRS-10K	1/4" x 1/8" BSPP Hex Nipple s/s 10k
OGT4MRS4MRS-10K	1/4" x 1/4" BSPP Hex Nipple s/s 10k
OGT6MRS4MRS-10K	3/8" x 1/4" BSPP Hex Nipple s/s 10k
OGT6MRS6MRS-10K	3/8" x 3/8" BSPP Hex Nipple s/s 10k
OGT8MRS2MRS-10K	1/2" x 1/8" BSPP Hex Nipple s/s 10k
OGT8MRS4MRS-10K	1/2" x 1/4" BSPP Hex Nipple s/s 10k
OGT8MRS6MRS-10K	1/2" x 3/8" BSPP Hex Nipple s/s 10k
OGT8MRS8MRS-10K	1/2" x 1/2" BSPP Hex Nipple s/s 10k
OGT10MRS10MRS-10K	5/8" x 5/8" BSPP Hex Nipple s/s 10k
OGT12MRS8MRS-10K	3/4" x 1/2" BSPP Hex Nipple s/s 10k
OGT16MRS12MRS-10K	1" x 3/4" BSPP Hex Nipple s/s 10k
OGT12MRS12MRS-10K	3/4" x 3/4" BSPP Hex Nipple s/s 10k
OGT16MRS16MRS-10K	1" x 1" BSPP Hex Nipple s/s 10k

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## MC-MRS

### NPT x BSPP Hex Nipple

PRODUCT CODE	DESCRIPTION
OGT2MC2MRS-10K	1/8" NPT male x 1/8" BSPP male s/s 10k
OGT4MC2MRS-10K	1/4" NPT male x 1/8" BSPP male s/s 10k
OGT4MC4MRS-10K	1/4" NPT male x 1/4" BSPP male s/s 10k
OGT2MC4MRS-10K	1/8" NPT male x 1/4" BSPP male s/s 10k
OGT6MC4MRS-10K	3/8" NPT male x 1/4" BSPP male s/s 10k
OGT8MC4MRS-10K	1/2" NPT male x 1/4" BSPP male s/s 10k
OGT4MC6MRS-10K	1/4" NPT male x 3/8" BSPP male s/s 10k
OGT6MC6MRS-10K	3/8" NPT male x 3/8" BSPP male s/s 10k
OGT8MC6MRS-10K	1/2" NPT male x 3/8" BSPP male s/s 10k
OGT4MC8MRS-10K	1/4" NPT male x 1/2" BSPP male s/s 10k
OGT6MC8MRS-10K	3/8" NPT male x 1/2" BSPP male s/s 10k
OGT8MC8MRS-10K	1/2" NPT male x 1/2" BSPP male s/s 10k
OGT12MC8MRS-10K	3/4" NPT male x 1/2" BSPP male s/s 10k
OGT16MC8MRS-10K	1" NPT male x 1/2" BSPP male s/s 10k
OGT8MC10MRS-10K	1/2" NPT male x 5/8" BSPP male s/s 10k
OGT8MC12MCRS-10K	1/2" NPT male x 3/4" BSPP male s/s 10k
OGT12MC12MRS-10K	3/4" NPT male x 3/4" BSPP male s/s 10k
OGT16MC12MRS-10K	1" NPT male x 3/4" BSPP male s/s 10k
OGT12MC16MRS-10K	3/4" NPT male x 1" BSPP male s/s 10k
OGT16MC16MRS-10K	1" NPT male x 1" BSPP male s/s 10k
OGT16MC20MRS-10K	1" NPT male x 1-1/4" BSPP male s/s 10k



## MRS-MST

### BSPP x SAE Hex Nipple

PRODUCT CODE	DESCRIPTION
OGT4MRS4MSOGT-10K	1/4" BSPP x 1/4" SAE male s/s 10k
OGT8MRS8MSOGT-10K	1/2" BSPP x 1/2" SAE male s/s 10k
OGT4MC4MSOGT-10K	1/4" NPT x 1/4" SAE male s/s 10k
OGT8MC8MSOGT-10K	1/2" NPT x 1/4" SAE male s/s 10k



## AN UNION

PRODUCT CODE	DESCRIPTION
OGT4AN4AN-10K	7/16" JIC x 7/16" JIC Nipple s/s 10k
OGT5AN5AN-10K	1/2" JIC x 1/2" JIC Nipple s/s 10k
OGT6AN6AN-10K	9/16" JIC x 9/16" JIC Nipple s/s 10k
OGT8AN8AN-10K	3/4" JIC x 3/4" JIC Nipple s/s 10k
OGT10AN10AN-10K	7/8" JIC x 7/8" JIC Nipple s/s 10k
OGT12AN12AN-10K	1-1/16" JIC x 1-1/16" JIC Nipple s/s 10k
OGT16AN16AN-10K	1-5/16" JIC x 1-5/16" JIC Nipple s/s 10k

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## ADAPTER

PRODUCT CODE	DESCRIPTION
OGT4A-10K	1/4" NPT female to 1/4" NPT male s/s 10k
OGT6A-10K	3/8" NPT female to 3/8" NPT male s/s 10k
OGT8A-10K	1/2" NPT female to 1/2" NPT male s/s 10k
OGT12A-10K	3/4" NPT female to 3/4" NPT male s/s 10k
OGT16A-10K	1" NPT female to 1" NPT male s/s 10k



## REDUCING ADAPTER

PRODUCT CODE	DESCRIPTION
OGT4RA2-10K	1/4" NPT female to 1/8" NPT male s/s 10k
OGT6RA2-10K	3/8" NPT female to 1/8" NPT male s/s 10k
OGT6RA4-10K	3/8" NPT female to 1/4" NPT male s/s 10k
OGT8RA2-10K	1/2" NPT female to 1/8" NPT male s/s 10k
OGT8RA4-10K	1/2" NPT female to 1/4" NPT male s/s 10k
OGT8RA6-10K	1/2" NPT female to 3/8" NPT male s/s 10k
OGT12RA4-10K	3/4" NPT female to 1/4" NPT male s/s 10k
OGT12RA6-10K	3/4" NPT female to 3/8" NPT male s/s 10k
OGT12RA8-10K	3/4" NPT female to 1/2" NPT male s/s 10k
OGT16RA8-10K	1" NPT female to 1/2" NPT male s/s 10k
OGT16RA12-10K	1" NPT female to 3/4" NPT male s/s 10k

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## REDUCING BUSH

PRODUCT CODE	DESCRIPTION
OGT4RB2-10K	1/4" NPT male to 1/8" NPT female bush s/s 10k
OGT8RB2-10K	1/2" NPT male to 1/8" NPT female bush s/s 10k
OGT6RB4-10K	3/8" NPT male to 1/4" NPT female bush s/s 10k
OGT8RB4-10K	1/2" NPT male to 1/4" NPT female bush s/s 10k
OGT12RB4-10K	3/4" NPT male to 1/4" NPT female bush s/s 10k
OGT16RB4-10K	1" NPT male to 1/4" NPT female bush s/s 10k
OGT8RB6-10K	1/2" NPT male to 3/8" NPT female bush s/s 10k
OGT12RB6-10K	3/4" NPT male to 3/8" NPT female bush s/s 10k
OGT16RB6-10K	1" NPT male to 3/8" NPT female bush s/s 10k
OGT12RB8-10K	3/4" NPT male to 1/2" NPT female bush s/s 10k
OGT16RB8-10K	1" NPT male to 1/2" NPT female bush s/s 10k
OGT32RB8-10K	2" NPT male to 1/2" NPT female bush s/s 10k
OGT16RB12-10K	1" NPT male to 3/4" NPT female bush s/s 10k



## PIPE CAP

PRODUCT CODE	DESCRIPTION
OGT2PCP-10K	1/8" NPT Pipe Cap s/s 10k
OGT4PCP-10K	1/4" NPT Pipe Cap s/s 10k
OGT6PCP-10K	3/8" NPT Pipe Cap s/s 10k
OGT8PCP-10K	1/2" NPT Pipe Cap s/s 10k
OGT12PCP-10K	3/4" NPT Pipe Cap s/s 10k
OGT16PCP-10K	1" NPT Pipe Cap s/s 10k

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## ELBOW

PRODUCT CODE	DESCRIPTION
OGT2E-10K	1/8" NPT Female 90 deg elbow s/s 10k
OGT4E-10K	1/4" NPT Female 90 deg elbow s/s 10k
OGT6E-10K	3/8" NPT Female 90 deg elbow s/s 10k
OGT8E-10K	1/2" NPT Female 90 deg elbow s/s 10k



## MALE ELBOW

PRODUCT CODE	DESCRIPTION
OGT4ME-10K	1/4" NPT male 90 deg elbow s/s 10k
OGT6ME-10K	3/8" NPT male 90 deg elbow s/s 10k
OGT8ME-10K	1/2" NPT male 90 deg elbow s/s 10k



## STREET ELBOW

PRODUCT CODE	DESCRIPTION
OGT2SE-10K	1/8" NPT male female 90 deg elbow s/s 10k
OGT4SE-10K	1/4" NPT male female 90 deg elbow s/s 10k
OGT6SE-10K	3/8" NPT male female 90 deg elbow s/s 10k
OGT8SE-10K	1/2" NPT male female 90 deg elbow s/s 10k

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## PIPE PLUG

PRODUCT CODE	DESCRIPTION
OGT2PP-10K	1/8" NPT Pipe Plug s/s 10k
OGT4PP-10K	1/4" NPT Pipe Plug s/s 10k
OGT6PP-10K	3/8" NPT Pipe Plug s/s 10k
OGT8PP-10K	1/2" NPT Pipe Plug s/s 10k
OGT12PP-10K	3/4" NPT Pipe Plug s/s 10k
OGT16PP-10K	1" NPT Pipe Plug s/s 10k



## PIPE TEE

PRODUCT CODE	DESCRIPTION
OGT2POGT-10K	1/8" NPT Female Tee s/s 10k
OGT4POGT-10K	1/4" NPT Female Tee s/s 10k
OGT6POGT-10K	3/8" NPT Female Tee s/s 10k
OGT8POGT-10K	1/2" NPT Female Tee s/s 10k



## MALE TEE

PRODUCT CODE	DESCRIPTION
OGT4MOGT-10K	1/4" NPT Male Tee s/s 10k
OGT6MOGT-10K	3/8" NPT Male Tee s/s 10k
OGT8MOGT-10K	1/2" NPT Male Tee s/s 10k

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## HEX COUPLING

PRODUCT CODE	DESCRIPTION
OGT2HCG-10K	1/8" NPT Hex coupling s/s 10k
OGT4HCG-10K	1/4" NPT Hex coupling s/s 10k
OGT6HCG-10K	3/8" NPT Hex coupling s/s 10k
OGT8HCG-10K	1/2" NPT Hex coupling s/s 10k
OGT12HCG-10K	3/4" NPT Hex coupling s/s 10k
OGT16HCG-10K	1" NPT Hex coupling s/s 10k



## HEX REDUCING COUPLING

PRODUCT CODE	DESCRIPTION
OGT2HCG-10K	1/8" NPT Hex coupling s/s 10k
OGT4HCG-10K	1/4" NPT Hex coupling s/s 10k
OGT6HCG-10K	3/8" NPT Hex coupling s/s 10k
OGT8HCG-10K	1/2" NPT Hex coupling s/s 10k
OGT12HCG-10K	3/4" NPT Hex coupling s/s 10k
OGT16HCG-10K	1" NPT Hex coupling s/s 10k

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## AN MALE CONNECTOR

PRODUCT CODE	DESCRIPTION
OGT4AN4MC-10K	7/16" JIC x 1/4" NPT Nipple s/s 10k
OGT4AN6MC-10K	7/16" JIC x 3/8" NPT Nipple s/s 10k
OGT4AN8MC-10K	7/16" JIC x 1/2" NPT Nipple s/s 10k
OGT6AN4MC-10K	9/16" JIC x 1/4" NPT Nipple s/s 10k
OGT6AN6MC-10K	9/16" JIC x 3/8" NPT Nipple s/s 10k
OGT6AN8MC-10K	9/16" JIC x 1/2" NPT Nipple s/s 10k
OGT8AN4MC-10K	3/4" JIC x 1/4" NPT Nipple s/s 10k
OGT8AN6MC-10K	3/4" JIC x 3/8" NPT Nipple s/s 10k
OGT8AN8MC-10K	3/4" JIC x 1/2" NPT Nipple s/s 10k
OGT8AN12MC-10K	3/4" JIC x 3/4" NPT Nipple s/s 10k
OGT12AN8MC-10K	1-1/16" JIC x 1/2" NPT Nipple s/s 10k
OGT12AN12MC-10K	1-1/16" JIC x 3/4" NPT Nipple s/s 10k
OGT16AN8MC-10K	1-5/16" JIC x 1/2" NPT Nipple s/s 10k
OGT16AN12MC-10K	1-5/16" JIC x 3/4" NPT Nipple s/s 10k
OGT16AN16MC-10K	1-5/16" JIC x 1" NPT Nipple s/s 10k



## AN & SAE MALE CONNECTOR

PRODUCT CODE	DESCRIPTION
OGT4AN4MSOGT-10K	7/16" JIC x 9/16" ORFS male Nipple s/s 10k
OGT4AN6MSOGT-10K	7/16" JIC x 11/16" ORFS male Nipple s/s 10k
OGT6AN4MSOGT-10K	9/16" JIC x 9/16" ORFS male Nipple s/s 10k
OGT6AN6MSOGT-10K	9/16" JIC x 11/16" ORFS male Nipple s/s 10k
OGT8AN8MSOGT-10K	3/4" JIC x 7/8" ORFS male Nipple s/s 10k





## AN MALE ELBOW

PRODUCT CODE	DESCRIPTION
OGT4AN4ME-10K	7/16" JIC M to 1/4" NPT M 90 deg elbow s/s 10k
OGT6AN4ME-10K	9/16" JIC M to 1/4" NPT M 90 deg elbow s/s 10k
OGT6AN6ME-10K	9/16" JIC M to 3/8" NPT M 90 deg elbow s/s 10k
OGT8AN6ME-10K	3/4" JIC M to 3/8" NPT M 90 deg elbow s/s 10k
OGT8AN8ME-10K	3/4" JIC M to 1/2" NPT M 90 deg elbow s/s 10k



## AN FEMALE ELBOW

PRODUCT CODE	DESCRIPTION
OGT4AN4ANF-10K	7/16" JIC M x 7/16" JIC Fem Swiv s/s 10k
OGT4AN6ANF-10K	7/16" JIC M x 9/16" JIC Fem Swiv s/s 10k
OGT5AN4ANF-10K	1/2" JIC M x 7/16" JIC Fem Swiv s/s 10k
OGT6AN4ANF-10K	9/16" JIC M x 7/16" JIC Fem Swiv s/s 10k
OGT6AN6ANF-10K	9/16" JIC M x 9/16" JIC Fem Swiv s/s 10k
OGT6AN8ANF-10K	9/16" JIC M x 3/4" JIC Fem Swiv s/s 10k
OGT8AN4ANF-10K	3/4" JIC M x 7/16" JIC Fem Swiv s/s 10k
OGT8AN6ANF-10K	3/4" JIC M x 9/16" JIC Fem Swiv s/s 10k
OGT8AN8ANF-10K	3/4" JIC M x 3/4" JIC Fem Swiv s/s 10k
OGT8AN12ANF-10K	3/4" JIC M x 1-1/16" JIC Fem Swiv s/s 10k
OGT12AN8ANF-10K	1-1/16" JIC M x 3/4" JIC Fem Swiv s/s 10k

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## AN UNION ELBOW

PRODUCT CODE	DESCRIPTION
OGT4ANUE4-10K	7/16" JIC Male x 7/16" JIC Male 90 deg elbow s/s 10k
OGT6ANUE6-10K	9/16" JIC Male x 9/16" JIC Male 90 deg elbow s/s 10k
OGT8ANUE8-10K	3/4" JIC Male x 3/4" JIC Male 90 deg elbow s/s 10k



## AN X BSPP MALE CONNECTOR

PRODUCT CODE	DESCRIPTION
OGT4AN4MRS-10K	7/16" JIC Male x 1/4" BSPP male s/s 10k
OGT4AN6MRS-10K	7/16" JIC Male x 3/8" BSPP male s/s 10k
OGT4AN8MRS-10K	7/16" JIC Male x 1/2" BSPP male s/s 10k
OGT4AN12MRS-10K	7/16" JIC Male x 3/4" BSPP male s/s 10k
OGT6AN6MRS-10K	9/16" JIC Male x 3/8" BSPP male s/s 10k
OGT8AN8MRS-10K	3/4" JIC Male x 3/4" BSPP male s/s 10k

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## AN CAP

PRODUCT CODE	DESCRIPTION
OGT4ANPCP-10K	7/16" JIC Cap s/s 10k
OGT5ANPCP-10K	1/2" JIC Cap s/s 10k
OGT6ANPCP-10K	9/16" JIC Cap s/s 10k
OGT8ANPCP-10K	3/4" JIC Cap s/s 10k
OGT10ANPCP-10K	7/8" JIC Cap s/s 10k
OGT12ANPCP-10K	1-1/16" JIC Cap s/s 10k
OGT16ANPCP-10K	1-5/16" JIC Cap s/s 10k



## AN PLUG

PRODUCT CODE	DESCRIPTION
OGT4ANPCP-10K	7/16" JIC Cap s/s 10k
OGT5ANPCP-10K	1/2" JIC Cap s/s 10k
OGT6ANPCP-10K	9/16" JIC Cap s/s 10k
OGT8ANPCP-10K	3/4" JIC Cap s/s 10k
OGT10ANPCP-10K	7/8" JIC Cap s/s 10k
OGT12ANPCP-10K	1-1/16" JIC Cap s/s 10k
OGT16ANPCP-10K	1-5/16" JIC Cap s/s 10k

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## ADAPTORS AND VALVES - 10 TO 60K



### 10K NEEDLE CHECK AND BALL VALVES

OGUB series – 10,000 psi rated ball valve

PRODUCT CODE	SIZE	INLET PORT	OUTLET PORT	BORE SIZE
OGUB2NS	¼"	NPT female	NPT Female	5mm
OGUB3NS	⅜"	NPT Female	NPT Female	5mm
OGUB4NS	½"	NPT Female	NPT Female	5mm
OGUB6NS	¾"	NPT Female	NPT Female	13mm
OGUE8NS	1"	NPT Female	NPT Female	19mm

- Single isolate ball valve, two piece, floating ball, integral screw together design.
- Panel mounting holes
- Body and Trim Materials stainless steel 316
- Seats and Seals: PEEK, PTFE, RTFE
- Complete with stainless steel lever handle
- Service repair kits available



### 10K NEEDLE, CHECK AND BALL VALVES

OGEC series – 10,000 psi rated Piston and Spring Check Valve

PRODUCT CODE	SIZE	INLET PORT	OUTLET PORT	BORE SIZE
OGEC2NS	¼"	NPT female	NPT Female	5mm
OGEC3NS	⅜"	NPT Female	NPT Female	5mm
OGEC4NS	½"	NPT Female	NPT Female	10mm
OGEC6NS	¾"	NPT Female	NPT Female	10mm
OGEC8NS	1"	NPT Female	NPT Female	10mm

- Body, piston and spring stainless steel 316
- Cracking pressure 2-10 psi (6psi+/-4psi)
- Seals HNBR 90 O ring

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## 10K NEEDLE, CHECK AND BALL VALVES

**OGUN series – 10,000 psi rated needle valve (FxF and MxF)**

PRODUCT CODE	SIZE	INLET PORT	OUTLET PORT	BORE SIZE
OGUN2NS	1/4"	NPT female	NPT Female	5mm
OGUN3NS	3/8"	NPT Female	NPT Female	5mm
OGUN4NS	1/2"	NPT Female	NPT Female	5mm
OGUN6NS	3/4"	NPT Female	NPT Female	5mm
OGUN8NS	1"	NPT Female	NPT Female	5mm
OGUN2NS-1M	1/4"	NPT Male	NPT Female	5mm
OGUN4NS-1M	1/2"	NPT Male	NPT Female	5mm

- Single isolation needle valve, metal to metal seat
- Bonnet and body connection with anti-vibration cam locking device for superior for extra safety
- Body and trim materials stainless steel 316/316 S11
- N.A.C.E. MR.01.75 latest rev. Duplex and Monel also available
- 17-4ph hardened non rotating self centering tip
- RTFE packings multi ring/piston type
- Maximum working temperature is 230oC (up to 570oC at reduced pressure)
- Complete with a stainless steel "T" bar handle
- Options include locking device, hand-wheel and integral venting

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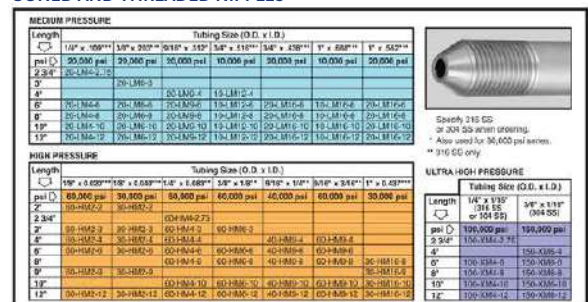




## TUBING

Comes in random lengths 21-24 feet long  
Note: The 1/16" and 1/8" O.D. tubing sizes may be collared for shipment. Larger sizes must be shipped in straight lengths.

## CONED AND THREADED NIPPLE:

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## RELIEF VALVES

- Factory set up to 60,000 psi
- Field adjustable up to 10,000 psi
- 10 - 20,000 psi



**08 9437 4359**  
**salesoil&gas@pirtek.com.au**  
**www.pirtek.com.au**





## **HIGH AND ULTRA HIGH PRESSURE (690 TO 4140 BAR)**

### **Valves, Fittings and Couplers**

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## HIGH-PRESSURE MALE X MALE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HHM4-HM4	1/4" HP Male x 1/4" HP Male	4.140 bar	60.000 psi
HHM4-HM6	1/4" HP Male x 3/8" HP Male	4.140 bar	60.000 psi
HHM4-HM9	1/4" HP Male x 9/16" HP Male	4.140 bar	60.000 psi
HHM6-HM6	3/8" HP Male x 3/8" HP Male	4.140 bar	60.000 psi
HHM6-HM9	3/8" HP Male x 9/16" HP Male	4.140 bar	60.000 psi
HHM9-HM9	9/16" HP Male x 9/16" HP Male	4.140 bar	60.000 psi



## HIGH-PRESSURE FEMALE X HIGH-PRESSURE MALE (UNF) - Including collar and gland nut

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HHF4-HM4	1/4" HP Female x 1/4" HP Male	4.140 bar	60.000 psi
HHF4-HM6	1/4" HP Female x 3/8" HP Male	4.140 bar	60.000 psi
HHF4-HM9	1/4" HP Female x 9/16" HP Male	4.140 bar	60.000 psi
HHF6-HM4	3/8" HP Female x 1/4" HP Male	4.140 bar	60.000 psi
HHF6-HM6	3/8" HP Female x 3/8" HP Male	4.140 bar	60.000 psi
HHF6-HM9	3/8" HP Female x 9/16" HP Male	4.140 bar	60.000 psi



## HIGH-PRESSURE HEAVY DUTY COUPLERS FEMALE (UNF) - Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HC-HF4	1/4" HP Female Coupler	4.140 bar	60.000 psi
HC-HF6	3/8" HP Female Coupler	4.140 bar	60.000 psi
HC-HF6-HF4	3/8" HP x 1/4" HP Female Coupler	4.140 bar	60.000 psi
HC-HF9	9/16" HP Female Coupler	4.140 bar	60.000 psi
HC-HF9-HF4	9/16" HP x 1/4" HP Female Coupler	4.140 bar	60.000 psi
HC-HF9-HF6	9/16" HP x 3/8" HP Female Coupler	4.140 bar	60.000 psi

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## HIGH-PRESSURE HEAVY DUTY COUPLERS FEMALE (METRIC) - Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HC-MEF16-CLR-1/4HP	M16x1.5 Female Coupler (incl. Collar 1/4" HP & Gland Nut M16x1.5)	4.140 bar	60.000 psi
HC-MEF20-CLR-3/8HP	M20x1.5 Female Coupler (incl. Collar 3/8" HP & Gland Nut M20x1.5)	4.140 bar	60.000 psi
HC-MEF26-CLR-9/16HP	M26x1.5 Female Coupler (incl. Collar 9/16" HP & Gland Nut M26x1.5)	4.140 bar	60.000 psi
HC-MEF26-CLR-M14	M26x1.5 Female Coupler (incl. Collar M14x1.5 & Gland Nut M20x1.5)	4.140 bar	60.000 psi
HC-MEF30-CLR-9/16HP	M30x2 Female Coupler (incl. Collar 9/16" HP & Gland Nut M30x2)	4.140 bar	60.000 psi
HC-MEF30-CLR-M14	M30x2 Female Coupler (incl. Collar M14x1.5 & Gland Nut M30x2)	4.140 bar	60.000 psi
HC-MEF30-CLR-M18	M30x2 Female Coupler (incl. Collar M18x1.5 & Gland Nut M30x2)	4.140 bar	60.000 psi



## HIGH-PRESSURE SLIMLINE COUPLERS

Slimline couplers are designed to be used ONLY for high pressure waterjetting applications, such as tube bundle cleaning.

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HCSL-HF4-LL	1/4" HP Female Slimline Coupler Left x Left* 0.445" OD	2.760 bar	40.000 psi
HCSL-HF4-LR	1/4" HP Female Slimline Coupler Left x Right* 0.445" OD	2.760 bar	40.000 psi
HCSL-HF4-RR	1/4" HP Female Slimline Coupler Right x Right* 0.445" OD	2.760 bar	40.000 psi
HCSL-HF6-LL	3/8" HP Female Slimline Coupler Left x Left* 0.562" OD	2.760 bar	40.000 psi
HCSL-HF6-LR	3/8" HP Female Slimline Coupler Left x Right* 0.562" OD	2.760 bar	40.000 psi
HCSL-HF6-RR	3/8" HP Female Slimline Coupler Right x Right* 0.562" OD	2.760 bar	40.000 psi
HCSL-HF9-LL	9/16" HP Female Slimline Coupler Left x Left* 0.750" OD	2.760 bar	40.000 psi
HCSL-HF9-LR	9/16" HP Female Slimline Coupler Left x Right* 0.750" OD	2.760 bar	40.000 psi
HCSL-HF9-RR	9/16" HP Female Slimline Coupler Right x Right* 0.750" OD	2.760 bar	40.000 psi

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## HIGH-PRESSURE MALE X MEDIUM PRESSURE MALE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HHM4-MM4	1/4" HP Male x 1/4" MP Male	1.380 bar	20.000 psi
HHM4-MM6	1/4" HP Male x 3/8" MP Male	1.380 bar	20.000 psi
HHM4-MM9	1/4" HP Male x 9/16" MP Male	1.380 bar	20.000 psi
HHM4-MM12	1/4" HP Male x 3/4" MP Male	1.380 bar	20.000 psi
HHM4-MM16	1/4" HP Male x 1" MP Male	1.380 bar	20.000 psi
HHM6-MM4	3/8" HP Male x 1/4" MP Male	1.380 bar	20.000 psi
HHM6-MM6	3/8" HP Male x 3/8" MP Male	1.380 bar	20.000 psi
HHM6-MM9	3/8" HP Male x 9/16" MP Male	1.380 bar	20.000 psi
HHM6-MM12	3/8" HP Male x 3/4" MP Male	1.380 bar	20.000 psi
HHM6-MM16	3/8" HP Male x 1" MP Male	1.380 bar	20.000 psi
HHM9-MM4	9/16" HP Male x 1/4" MP Male	1.380 bar	20.000 psi
HHM9-MM6	9/16" HP Male x 3/8" MP Male	1.380 bar	20.000 psi
HHM9-MM9	9/16" HP Male x 9/16" MP Male	1.380 bar	20.000 psi
HHM9-MM12	9/16" HP Male x 3/4" MP Male	1.380 bar	20.000 psi
HHM9-MM16	9/16" HP Male x 1" MP Male	1.380 bar	20.000 psi

## HIGH-PRESSURE FEMALE X MEDIUM PRESSURE FEMALE - Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HC-HF4-MF4	1/4" HP Female x 1/4" MP Female	1.380 bar	20.000 psi
HC-HF4-MF6	1/4" HP Female x 3/8" MP Female	1.380 bar	20.000 psi
HC-HF4-MF9	1/4" HP Female x 9/16" MP Female	1.380 bar	20.000 psi
HC-HF4-MF12	1/4" HP Female x 3/4" MP Female	1.380 bar	20.000 psi
HC-HF4-MF16	1/4" HP Female x 1" MP Female	1.380 bar	20.000 psi
HC-HF6-MF4	3/8" HP Female x 1/4" MP Female	1.380 bar	20.000 psi
HC-HF6-MF6	3/8" HP Female x 3/8" MP Female	1.380 bar	20.000 psi
HC-HF6-MF9	3/8" HP Female x 9/16" MP Female	1.380 bar	20.000 psi
HC-HF6-MF12	3/8" HP Female x 3/4" MP Female	1.380 bar	20.000 psi
HC-HF6-MF16	3/8" HP Female x 1" MP Female	1.380 bar	20.000 psi
HC-HF9-MF4	9/16" HP Female x 1/4" MP Female	1.380 bar	20.000 psi
HC-HF9-MF6	9/16" HP Female x 3/8" MP Female	1.380 bar	20.000 psi
HC-HF9-MF9	9/16" HP Female x 9/16" MP Female	1.380 bar	20.000 psi
HC-HF9-MF12	9/16" HP Female x 3/4" MP Female	1.380 bar	20.000 psi
HC-HF9-MF16	9/16" HP Female x 1" MP Female	1.380 bar	20.000 psi

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## HIGH-PRESSURE FEMALE X MEDIUM PRESSURE MALE

### - Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HHF4-MM4	1/4" HP Female x 1/4" MP Male	1.380 bar	20.000 psi
HHF4-MM6	1/4" HP Female x 3/8" MP Male	1.380 bar	20.000 psi
HHF4-MM9	1/4" HP Female x 9/16" MP Male	1.380 bar	20.000 psi
HHF6-MM4	3/8" HP Female x 1/4" MP Male	1.380 bar	20.000 psi
HHF6-MM6	3/8" HP Female x 3/8" MP Male	1.380 bar	20.000 psi
HHF6-MM9	3/8" HP Female x 9/16" MP Male	1.380 bar	20.000 psi
HHF6-MM12	3/8" HP Female x 3/4" MP Male	1.380 bar	20.000 psi
HHF6-MM16	3/8" HP Female x 1" MP Male	1.380 bar	20.000 psi
HHF9-MM4	9/16" HP Female x 1/4" MP Male	1.380 bar	20.000 psi
HHF9-MM6	9/16" HP Female x 3/8" MP Male	1.380 bar	20.000 psi
HHF9-MM9	9/16" HP Female x 9/16" MP Male	1.380 bar	20.000 psi
HHF9-MM12	9/16" HP Female x 3/4" MP Male	1.380 bar	20.000 psi
HHF9-MM16	9/16" HP Female x 1" MP Male	1.380 bar	20.000 psi



## HIGH-PRESSURE MALE X MEDIUM PRESSURE FEMALE

### - Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HMF4-HM4	1/4" MP Female x 1/4" HP Male	1.380 bar	20.000 psi
HMF4-HM6	1/4" MP Female x 3/8" HP Male	1.380 bar	20.000 psi
HMF4-HM9	1/4" MP Female x 9/16" HP Male	1.380 bar	20.000 psi
HMF6-HM4	3/8" MP Female x 1/4" HP Male	1.380 bar	20.000 psi
HMF6-HM6	3/8" MP Female x 3/8" HP Male	1.380 bar	20.000 psi
HMF6-HM9	3/8" MP Female x 9/16" HP Male	1.380 bar	20.000 psi
HMF9-HM4	9/16" MP Female x 1/4" HP Male	1.380 bar	20.000 psi
HMF9-HM6	9/16" MP Female x 3/8" HP Male	1.380 bar	20.000 psi
HMF9-HM9	9/16" MP Female x 9/16" HP Male	1.380 bar	20.000 psi
HMF12-HM4	3/4" MP Female x 1/4" HP Male	1.380 bar	20.000 psi
HMF12-HM6	3/4" MP Female x 3/8" HP Male	1.380 bar	20.000 psi
HMF12-HM9	3/4" MP Female x 9/16" HP Male	1.380 bar	20.000 psi
HMF16-HM4	1" MP Female x 1/4" HP Male	1.380 bar	20.000 psi
HMF16-HM6	1" MP Female x 3/8" HP Male	1.380 bar	20.000 psi
HMF16-HM9	1" MP Female x 9/16" HP Male	1.380 bar	20.000 psi

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## HIGH-PRESSURE MALE X NPT MALE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HHM4-NM4	1/4" HP Male x 1/4" NPT Male	1.035 bar	15.000 psi
HHM4-NM6	1/4" HP Male x 3/8" NPT Male	1.035 bar	15.000 psi
HHM4-NM8	1/4" HP Male x 1/2" NPT Male	1.035 bar	15.000 psi
HHM4-NM12	1/4" HP Male x 3/4" NPT Male	690 bar	10.000 psi
HHM4-NM16	1/4" HP Male x 1" NPT Male	690 bar	10.000 psi
HHM6-NM4	3/8" HP Male x 1/4" NPT Male	1.035 bar	15.000 psi
HHM6-NM6	3/8" HP Male x 3/8" NPT Male	1.035 bar	15.000 psi
HHM6-NM8	3/8" HP Male x 1/2" NPT Male	1.035 bar	15.000 psi
HHM6-NM12	3/8" HP Male x 3/4" NPT Male	690 bar	10.000 psi
HHM6-NM16	3/8" HP Male x 1" NPT Male	690 bar	10.000 psi
HHM9-NM4	9/16" HP Male x 1/4" NPT Male	1.035 bar	15.000 psi
HHM9-NM6	9/16" HP Male x 3/8" NPT Male	1.035 bar	15.000 psi
HHM9-NM8	9/16" HP Male x 1/2" NPT Male	1.035 bar	15.000 psi
HHM9-NM12	9/16" HP Male x 3/4" NPT Male	690 bar	10.000 psi
HHM9-NM16	9/16" HP Male x 1" NPT Male	690 bar	10.000 psi

## HIGH-PRESSURE FEMALE X NPT FEMALE

- Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HC-HF4-NF4	1/4" HP Female x 1/4" NPT Female	1.035 bar	15.000 psi
HC-HF4-NF6	1/4" HP Female x 3/8" NPT Female	1.035 bar	15.000 psi
HC-HF4-NF8	1/4" HP Female x 1/2" NPT Female	1.035 bar	15.000 psi
HC-HF4-NF12	1/4" HP Female x 3/4" NPT Female	690 bar	10.000 psi
HC-HF4-NF16	1/4" HP Female x 1" NPT Female	690 bar	10.000 psi
HC-HF6-NF4	3/8" HP Female x 1/4" NPT Female	1.035 bar	15.000 psi
HC-HF6-NF6	3/8" HP Female x 3/8" NPT Female	1.035 bar	15.000 psi
HC-HF6-NF8	3/8" HP Female x 1/2" NPT Female	1.035 bar	15.000 psi
HC-HF6-NF12	3/8" HP Female x 3/4" NPT Female	690 bar	10.000 psi
HC-HF6-NF16	3/8" HP Female x 1" NPT Female	690 bar	10.000 psi
HC-HF9-NF4	9/16" HP Female x 1/4" NPT Female	1.035 bar	15.000 psi
HC-HF9-NF6	9/16" HP Female x 3/8" NPT Female	1.035 bar	15.000 psi
HC-HF9-NF8	9/16" HP Female x 1/2" NPT Female	1.035 bar	15.000 psi
HC-HF9-NF12	9/16" HP Female x 3/4" NPT Female	690 bar	10.000 psi
HC-HF9-NF16	9/16" HP Female x 1" NPT Female	690 bar	10.000 psi

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## HIGH-PRESSURE FEMALE X NPT MALE

### - Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HHF4-NM4	1/4" HP Female x 1/4" NPT Male	1.035 bar	15.000 psi
HHF4-NM6	1/4" HP Female x 3/8" NPT Male	1.035 bar	15.000 psi
HHF4-NM8	1/4" HP Female x 1/2" NPT Male	1.035 bar	15.000 psi
HHF4-NM12	1/4" HP Female x 3/4" NPT Male	690 bar	10.000 psi
HHF4-NM16	1/4" HP Female x 1" NPT Male	690 bar	10.000 psi
HHF6-NM4	3/8" HP Female x 1/4" NPT Male	1.035 bar	15.000 psi
HHF6-NM6	3/8" HP Female x 3/8" NPT Male	1.035 bar	15.000 psi
HHF6-NM8	3/8" HP Female x 1/2" NPT Male	1.035 bar	15.000 psi
HHF6-NM12	3/8" HP Female x 3/4" NPT Male	690 bar	10.000 psi
HHF6-NM16	3/8" HP Female x 1" NPT Male	690 bar	10.000 psi
HHF9-NM4	9/16" HP Female x 1/4" NPT Male	1.035 bar	15.000 psi
HHF9-NM6	9/16" HP Female x 3/8" NPT Male	1.035 bar	15.000 psi
HHF9-NM8	9/16" HP Female x 1/2" NPT Male	1.035 bar	15.000 psi
HHF9-NM12	9/16" HP Female x 3/4" NPT Male	690 bar	10.000 psi
HHF9-NM16	9/16" HP Female x 1" NPT Male	690 bar	10.000 psi



## MEDIUM PRESSURE MALE X MALE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HMM4-MM4	1/4" MP Male x 1/4" MP Male	1.380 bar	20.000 psi
HMM6-MM4	3/8" MP Male x 1/4" MP Male	1.380 bar	20.000 psi
HMM6-MM6	3/8" MP Male x 3/8" MP Male	1.380 bar	20.000 psi
HMM6-MM9	3/8" MP Male x 9/16" MP Male	1.380 bar	20.000 psi
HMM9-MM4	9/16" MP Male x 1/4" MP Male	1.380 bar	20.000 psi
HMM9-MM9	9/16" MP Male x 9/16" MP Male	1.380 bar	20.000 psi
HMM9-MM12	9/16" MP Male x 3/4" MP Male	1.380 bar	20.000 psi
HMM9-MM16	9/16" MP Male x 1" MP Male	1.380 bar	20.000 psi
HMM12-MM4	3/4" MP Male x 1/4" MP Male	1.380 bar	20.000 psi
HMM12-MM6	3/4" MP Male x 3/8" MP Male	1.380 bar	20.000 psi
HMM12-MM12	3/4" MP Male x 3/4" MP Male	1.380 bar	20.000 psi
HMM16-MM4	1" MP Male x 1/4" MP Male	1.380 bar	20.000 psi
HMM16-MM6	1" MP Male x 3/8" MP Male	1.380 bar	20.000 psi
HMM16-MM12	1" MP Male x 3/4" MP Male	1.380 bar	20.000 psi
HMM16-MM16	1" MP Male x 1" MP Male	1.380 bar	20.000 psi

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## MEDIUM PRESSURE FEMALE X MEDIUM PRESSURE MALE

### - Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HMF4-MM6	1/4" MP Female x 3/8" MP Male	1.380 bar	20.000 psi
HMF4-MM9	1/4" MP Female x 9/16" MP Male	1.380 bar	20.000 psi
HMF4-MM12	1/4" MP Female x 3/4" MP Male	1.380 bar	20.000 psi
HMF4-MM16	1/4" MP Female x 1" MP Male	1.380 bar	20.000 psi
HMF6-MM12	3/8" MP Female x 3/4" MP Male	1.380 bar	20.000 psi
HMF6-MM16	3/8" MP Female x 1" MP Male	1.380 bar	20.000 psi
HMF6-MM4	3/8" MP Female x 1/4" MP Male	1.380 bar	20.000 psi
HMF6-MM9	3/8" MP Female x 9/16" MP Male	1.380 bar	20.000 psi
HMF9-MM4	9/16" MP Female x 1/4" MP Male	1.380 bar	20.000 psi
HMF9-MM6	9/16" MP Female x 3/8" MP Male	1.380 bar	20.000 psi
HMF9-MM12	9/16" MP Female x 3/4" MP Male	1.380 bar	20.000 psi
HMF9-MM16	9/16" MP Female x 1" MP Male	1.380 bar	20.000 psi
HMF12-MM4	3/4" MP Female x 1/4" MP Male	1.380 bar	20.000 psi
HMF12-MM6	3/4" MP Female x 3/8" MP Male	1.380 bar	20.000 psi
HMF12-MM9	3/4" MP Female x 9/16" MP Male	1.380 bar	20.000 psi
HMF12-MM16	3/4" MP Female x 1" MP Male	1.380 bar	20.000 psi
HMF16-MM4	1" MP Female x 1/4" MP Male	1.380 bar	20.000 psi
HMF16-MM6	1" MP Female x 3/8" MP Male	1.380 bar	20.000 psi
HMF16-MM9	1" MP Female x 9/16" MP Male	1.380 bar	20.000 psi
HMF16-MM12	1" MP Female x 3/4" MP Male	1.380 bar	20.000 psi

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## MEDIUM PRESSURE HEAVY DUTY COUPLERS

- Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HC-MF4	1/4" MP Female Coupler	1.380 bar	20.000 psi
HC-MF6-MF4	3/8" MP Female x 1/4" MP Female Coupler	1.380 bar	20.000 psi
HC-MF6	3/8" MP Female Coupler	1.380 bar	20.000 psi
HC-MF9-MF4	9/16" MP Female x 1/4" MP Female Coupler	1.380 bar	20.000 psi
HC-MF9-MF6	9/16" MP Female x 3/8" MP Female Coupler	1.380 bar	20.000 psi
HC-MF9	9/16" MP Female Coupler	1.380 bar	20.000 psi
HC-MF12-MF4	3/4" MP Female x 1/4" MP Female Coupler	1.380 bar	20.000 psi
HC-MF12-MF6	3/4" MP Female x 3/8" MP Female Coupler	1.380 bar	20.000 psi
HC-MF12-MF9	3/4" MP Female x 9/16" MP Female Coupler	1.380 bar	20.000 psi
HC-MF12	3/4" MP Female Coupler	1.380 bar	20.000 psi
HC-MF16-MF4	1" MP Female x 1/4" MP Female Coupler	1.380 bar	20.000 psi
HC-MF16-MF6	1" MP Female x 3/8" MP Female Coupler	1.380 bar	20.000 psi
HC-MF16-MF9	1" MP Female x 9/16" MP Female Coupler	1.380 bar	20.000 psi
HC-MF16-MF12	1" MP Female x 3/4" MP Female Coupler	1.380 bar	20.000 psi
HC-MF16	1" MP Female Coupler	1.380 bar	20.000 psi



## MEDIUM PRESSURE SLIMLINE COUPLERS

Slimline couplers are designed to be used ONLY for high pressure waterjetting applications, such as tube bundle cleaning.

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HCSL-MF4-LL	1/4" MP Female Slimline Coupler Left x Left* 0.374" OD	1.380 bar	20.000 psi
HCSL-MF4-LR	1/4" MP Female Slimline Coupler Left x Right* 0.374" OD	1.380 bar	20.000 psi
HCSL-MF4-RR	1/4" MP Female Slimline Coupler Right x Right* 0.374" OD	1.380 bar	20.000 psi
HCSL-MF6-LL	3/8" MP Female Slimline Coupler Left x Left* 0.499" OD	1.380 bar	20.000 psi
HCSL-MF6-LR	3/8" MP Female Slimline Coupler Left x Right* 0.499" OD	1.380 bar	20.000 psi
HCSL-MF6-RR	3/8" MP Female Slimline Coupler Right x Right* 0.499" OD	1.380 bar	20.000 psi
HCSL-MF9-LL	9/16" MP Female Slimline Coupler Left x Left* 0.687" OD	1.380 bar	20.000 psi
HCSL-MF9-LR	9/16" MP Female Slimline Coupler Left x Right* 0.687" OD	1.380 bar	20.000 psi
HCSL-MF9-RR	9/16" MP Female Slimline Coupler Right x Right* 0.687" OD	1.380 bar	20.000 psi

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## MEDIUM PRESSURE MALE X NPT MALE

### - Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION MAX	WORKING PRESSURE	
HMM4-NM4	1/4" MP Male x 1/4" NPT Male	1.035 bar	15.000 psi
HMM4-NM6	1/4" MP Male x 3/8" NPT Male	1.035 bar	15.000 psi
HMM4-NM8	1/4" MP Male x 1/2" NPT Male	1.035 bar	15.000 psi
HMM6-NM4	3/8" MP Male x 1/4" NPT Male	1.035 bar	15.000 psi
HMM6-NM6	3/8" MP Male x 3/8" NPT Male	1.035 bar	15.000 psi
HMM6-NM8	3/8" MP Male x 1/2" NPT Male	1.035 bar	15.000 psi
HMM9-NM4	9/16" MP Male x 1/4" NPT Male	1.035 bar	15.000 psi
HMM9-NM6	9/16" MP Male x 3/8" NPT Male	1.035 bar	15.000 psi
HMM9-NM8	9/16" MP Male x 1/2" NPT Male	1.035 bar	15.000 psi
HMM9-NM12	9/16" MP Male x 3/4" NPT Male	690 bar	10.000 psi
HMM9-NM16	9/16" MP Male x 1" NPT Male	690 bar	10.000 psi
HMM12-NM4	3/4" MP Male x 1/4" NPT Male	1.035 bar	15.000 psi
HMM12-NM8	3/4" MP Male x 1/2" NPT Male	1.035 bar	15.000 psi
HMM12-NM12	3/4" MP Male x 3/4" NPT Male	690 bar	10.000 psi
HMM12-NM16	3/4" MP Male x 1" NPT Male	690 bar	10.000 psi
HMM16-NM4	1" MP Male x 1/4" NPT Male	1.035 bar	15.000 psi
HMM16-NM8	1" MP Male x 1/2" NPT Male	1.035 bar	15.000 psi
HMM16-NM12	1" MP Male x 3/4" NPT Male	690 bar	10.000 psi
HMM16-NM16	1" MP Male x 1" NPT Male	690 bar	10.000 psi

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## MEDIUM PRESSURE FEMALE X NPT FEMALE

### - Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HC-MF4-NF2	1/4" MP Female x 1/8" NPT Female	1.035 bar	15.000 psi
HC-MF4-NF4	1/4" MP Female x 1/4" NPT Female	1.035 bar	15.000 psi
HC-MF4-NF6	1/4" MP Female x 3/8" NPT Female	1.035 bar	15.000 psi
HC-MF4-NF8	1/4" MP Female x 1/2" NPT Female	1.035 bar	15.000 psi
HC-MF6-NF2	3/8" MP Female x 1/8" NPT Female	1.035 bar	15.000 psi
HC-MF6-NF4	3/8" MP Female x 1/4" NPT Female	1.035 bar	15.000 psi
HC-MF6-NF6	3/8" MP Female x 3/8" NPT Female	1.035 bar	15.000 psi
HC-MF6-NF8	3/8" MP Female x 1/2" NPT Female	1.035 bar	15.000 psi
HC-MF6-NF12	3/8" MP Female x 3/4" NPT Female	690 bar	10.000 psi
HC-MF6-NF16	3/8" MP Female x 1" NPT Female	690 bar	10.000 psi
HC-MF9-NF2	9/16" MP Female x 1/8" NPT Female	1.035 bar	15.000 psi
HC-MF9-NF4	9/16" MP Female x 1/4" NPT Female	1.035 bar	15.000 psi
HC-MF9-NF6	9/16" MP Female x 3/8" NPT Female	1.035 bar	15.000 psi
HC-MF9-NF8	9/16" MP Female x 1/2" NPT Female	1.035 bar	15.000 psi
HC-MF9-NF12	9/16" MP Female x 3/4" NPT Female	690 bar	10.000 psi
HC-MF9-NF16	9/16" MP Female x 1" NPT Female	690 bar	10.000 psi
HC-MF12-NF8	3/4" MP Female x 1/2" NPT Female	1.035 bar	15.000 psi
HC-MF12-NF12	3/4" MP Female x 3/4" NPT Female	690 bar	10.000 psi
HC-MF12-NF16	3/4" MP Female x 1" NPT Female	690 bar	10.000 psi
HC-MF16-NF12	1" MP Female x 3/4" NPT Female	690 bar	10.000 psi
HC-MF16-NF16	1" MP Female x 1" NPT Female	690 bar	10.000 psi

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## MEDIUM PRESSURE FEMALE X NPT MALE

### - Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HMF4-NM4	1/4" MP Female x 1/4" NPT Male	1.035 bar	15.000 psi
HMF4-NM6	1/4" MP Female x 3/8" NPT Male	1.035 bar	15.000 psi
HMF4-NM8	1/4" MP Female x 1/2" NPT Male	1.035 bar	15.000 psi
HMF6-NM4	3/8" MP Female x 1/4" NPT Male	1.035 bar	15.000 psi
HMF6-NM6	3/8" MP Female x 3/8" NPT Male	1.035 bar	15.000 psi
HMF6-NM8	3/8" MP Female x 1/2" NPT Male	1.035 bar	15.000 psi
HMF9-NM4	9/16" MP Female x 1/4" NPT Male	1.035 bar	15.000 psi
HMF9-NM6	9/16" MP Female x 3/8" NPT Male	1.035 bar	15.000 psi
HMF9-NM8	9/16" MP Female x 1/2" NPT Male	1.035 bar	15.000 psi
HMF9-NM12	9/16" MP Female x 3/4" NPT Male	690 bar	10.000 psi
HMF9-NM16	9/16" MP Female x 1" NPT Male	690 bar	10.000 psi
HMF12-NM4	3/4" MP Female x 1/4" NPT Male	1.035 bar	15.000 psi
HMF12-NM6	3/4" MP Female x 3/8" NPT Male	1.035 bar	15.000 psi
HMF12-NM8	3/4" MP Female x 1/2" NPT Male	1.035 bar	15.000 psi
HMF12-NM12	3/4" MP Female x 3/4" NPT Male	690 bar	10.000 psi
HMF12-NM16	3/4" MP Female x 1" NPT Male	690 bar	10.000 psi
HMF16-NM4	1" MP Female x 1/4" NPT Male	1.035 bar	15.000 psi
HMF16-NM6	1" MP Female x 3/8" NPT Male	1.035 bar	15.000 psi
HMF16-NM8	1" MP Female x 1/2" NPT Male	1.035 bar	15.000 psi
HMF16-NM12	1" MP Female x 3/4" NPT Male	690 bar	10.000 psi
HMF16-NM16	1" MP Female x 1" NPT Male	690 bar	10.000 psi

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## NPT FEMALE X HIGH-PRESSURE MALE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HN4-F4	1/4" NPT Female x 1/4" HP Male	1.035 bar	15.000 psi
HN4-F6	1/4" NPT Female x 3/8" HP Male	1.035 bar	15.000 psi
HN4-F9	1/4" NPT Female x 9/16" HP Male	1.035 bar	15.000 psi
HN6-F4	3/8" NPT Female x 1/4" HP Male	1.035 bar	15.000 psi
HN6-F6	3/8" NPT Female x 3/8" HP Male	1.035 bar	15.000 psi
HN6-F9	3/8" NPT Female x 9/16" HP Male	1.035 bar	15.000 psi
HN8-F4	1/2" NPT Female x 1/4" HP Male	1.035 bar	15.000 psi
HN8-F6	1/2" NPT Female x 3/8" HP Male	1.035 bar	15.000 psi
HN8-F9	1/2" NPT Female x 9/16" HP Male	1.035 bar	15.000 psi
HN12-F6	3/4" NPT Female x 3/8" HP Male	690 bar	10.000 psi
HN12-F9	3/4" NPT Female x 9/16" HP Male	690 bar	10.000 psi
HN16-F9	1" NPT Female x 9/16" HP Male	690 bar	10.000 psi



## NPT FEMALE X MEDIUM PRESSURE MALE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HN2F2-MM4	1/8" NPT Female x 1/4" MP Male	1.035 bar	15.000 psi
HN2F2-MM6	1/8" NPT Female x 3/8" MP Male	1.035 bar	15.000 psi
HN2F2-MM9	1/8" NPT Female x 9/16" MP Male	1.035 bar	15.000 psi
HN2F2-MM12	1/8" NPT Female x 3/4" MP Male	1.035 bar	15.000 psi
HN4F2-MM4	1/4" NPT Female x 1/4" MP Male	1.035 bar	15.000 psi
HN4F2-MM6	1/4" NPT Female x 3/8" MP Male	1.035 bar	15.000 psi
HN4F2-MM9	1/4" NPT Female x 9/16" MP Male	1.035 bar	15.000 psi
HN4F2-MM12	1/4" NPT Female x 3/4" MP Male	1.035 bar	15.000 psi
HN4F2-MM16	1/4" NPT Female x 1" MP Male	1.035 bar	15.000 psi
HN6F2-MM4	3/8" NPT Female x 1/4" MP Male	1.035 bar	15.000 psi
HN6F2-MM6	3/8" NPT Female x 3/8" MP Male	1.035 bar	15.000 psi
HN6F2-MM9	3/8" NPT Female x 9/16" MP Male	1.035 bar	15.000 psi
HN6F2-MM12	3/8" NPT Female x 3/4" MP Male	1.035 bar	15.000 psi
HN6F2-MM16	3/8" NPT Female x 1" MP Male	1.035 bar	15.000 psi
HN8F2-MM4	1/2" NPT Female x 1/4" MP Male	1.035 bar	15.000 psi
HN8F2-MM6	1/2" NPT Female x 3/8" MP Male	1.035 bar	15.000 psi
HN8F2-MM9	1/2" NPT Female x 9/16" MP Male	1.035 bar	15.000 psi
HN8F2-MM12	1/2" NPT Female x 3/4" MP Male	1.035 bar	15.000 psi
HN8F2-MM16	1/2" NPT Female x 1" MP Male	1.035 bar	15.000 psi
HN12F2-MM6	3/4" NPT Female x 3/8" MP Male	690 bar	10.000 psi
HN12F2-MM9	3/4" NPT Female x 9/16" MP Male	690 bar	10.000 psi
HN12F2-MM12	3/4" NPT Female x 3/4" MP Male	690 bar	10.000 psi
HN12F2-MM16	3/4" NPT Female x 1" MP Male	690 bar	10.000 psi
HN16F2-MM6	1" NPT Female x 3/8" MP Male	690 bar	10.000 psi
HN16F2-MM9	1" NPT Female x 9/16" MP Male	690 bar	10.000 psi
HN16F2-MM12	1" NPT Female x 3/4" MP Male	690 bar	10.000 psi
HN16F2-MM16	1" NPT Female x 1" MP Male	690 bar	10.000 psi

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## NPT MALE X MALE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HN2M2-NM2	1/8" NPT Male x 1/8" NPT Male	1.035 bar	15.000 psi
HN4M4-NM2	1/4" NPT Male x 1/8" NPT Male	1.035 bar	15.000 psi
HN4M4-NM4	1/4" NPT Male x 1/4" NPT Male	1.035 bar	15.000 psi
HN6M6-NM2	3/8" NPT Male x 1/8" NPT Male	1.035 bar	15.000 psi
HN6M6-NM4	3/8" NPT Male x 1/4" NPT Male	1.035 bar	15.000 psi
HN6M6-NM6	3/8" NPT Male x 3/8" NPT Male	1.035 bar	15.000 psi
HN8M8-NM4	1/2" NPT Male x 1/4" NPT Male	1.035 bar	15.000 psi
HN8M8-NM6	1/2" NPT Male x 3/8" NPT Male	1.035 bar	15.000 psi
HN8M8-NM8	1/2" NPT Male x 1/2" NPT Male	1.035 bar	15.000 psi
HN12M12-NM4	3/4" NPT Male x 1/4" NPT Male	690 bar	10.000 psi
HN12M12-NM6	3/4" NPT Male x 3/8" NPT Male	690 bar	10.000 psi
HN12M12-NM8	3/4" NPT Male x 1/2" NPT Male	690 bar	10.000 psi
HN12M12-NM12	3/4" NPT Male x 3/4" NPT Male	690 bar	10.000 psi
HN16M16-NM4	1" NPT Male x 1/4" NPT Male	690 bar	10.000 psi
HN16M16-NM6	1" NPT Male x 3/8" NPT Male	690 bar	10.000 psi
HN16M16-NM8	1" NPT Male x 1/2" NPT Male	690 bar	10.000 psi
HN16M16-NM12	1" NPT Male x 3/4" NPT Male	690 bar	10.000 psi
HN16M16-NM16	1" NPT Male x 1" NPT Male	690 bar	10.000 psi

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## NPT FEMALE X NPT MALE (BUSHINGS)

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HNFB1-NM2	1/16" NPT Female x 1/8" NPT Male	1.035 bar	15.000 psi
HNFB1-NM4	1/16" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
HNFB1-NM6	1/16" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
HNFB1-NM8	1/16" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
HNFB2-NM4	1/8" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
HNFB2-NM6	1/8" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
HNFB2-NM8	1/8" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
HNFB4-NM2	1/4" NPT Female x 1/8" NPT Male	1.035 bar	15.000 psi
HNFB4-NM4	1/4" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
HNFB4-NM6	1/4" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
HNFB4-NM8	1/4" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
HNFB4-NM12	1/4" NPT Female x 3/4" NPT Male	690 bar	10.000 psi
HNFB4-NM16	1/4" NPT Female x 1" NPT Male	690 bar	10.000 psi
HNFB6-NM2	3/8" NPT Female x 1/8" NPT Male	1.035 bar	15.000 psi
HNFB6-NM4	3/8" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
HNFB6-NM6	3/8" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
HNFB6-NM8	3/8" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
HNFB6-NM12	3/8" NPT Female x 3/4" NPT Male	690 bar	10.000 psi
HNFB6-NM16	3/8" NPT Female x 1" NPT Male	690 bar	10.000 psi
HNFB8-NM4	1/2" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
HNFB8-NM6	1/2" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
HNFB8-NM8	1/2" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
HNFB8-NM12	1/2" NPT Female x 3/4" NPT Male	690 bar	10.000 psi
HNFB8-NM16	1/2" NPT Female x 1" NPT Male	690 bar	10.000 psi
HNFB12-NM4	3/4" NPT Female x 1/4" NPT Male	690 bar	10.000 psi
HNFB12-NM8	3/4" NPT Female x 1/2" NPT Male	690 bar	10.000 psi
HNFB12-NM12	3/4" NPT Female x 3/4" NPT Male	690 bar	10.000 psi
HNFB12-NM16	3/4" NPT Female x 1" NPT Male	690 bar	10.000 psi
HNFB16-NM6	1" NPT Female x 3/8" NPT Male	690 bar	10.000 psi
HNFB16-NM8	1" NPT Female x 1/2" NPT Male	690 bar	10.000 psi
HNFB16-NM12	1" NPT Female x 3/4" NPT Male	690 bar	10.000 psi

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## NPT HEAVY DUTY COUPLERS

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HC-NF4 HD	1/4" NPT Female Coupler	1.035 bar	15.000 psi
HC-NF6-NF4 HD	3/8" NPT Female x 1/4" NPT Female Coupler	1.035 bar	15.000 psi
HC-NF6 HD	3/8" NPT Female Coupler	1.035 bar	15.000 psi
HC-NF8-NF4 HD	1/2" NPT Female x 1/4" NPT Female Coupler	1.035 bar	15.000 psi
HC-NF8-NF6 HD	1/2" NPT Female x 3/8" NPT Female Coupler	1.035 bar	15.000 psi
HC-NF8 HD	1/2" NPT Female Coupler	1.035 bar	15.000 psi
HC-NF12-NF4 HD	3/4" NPT Female x 1/4" NPT Female Coupler	690 bar	10.000 psi
HC-NF12-NF6 HD	3/4" NPT Female x 3/8" NPT Female Coupler	690 bar	10.000 psi
HC-NF12-NF8 HD	3/4" NPT Female x 1/2" NPT Female Coupler	690 bar	10.000 psi
HC-NF12 HD	3/4" NPT Female Coupler	690 bar	10.000 psi
HC-NF16-NF8 HD	1" NPT Female x 1/2" NPT Female Coupler	690 bar	10.000 psi
HC-NF16-NF12 HD	1" NPT Female x 3/4" NPT Female Coupler	690 bar	10.000 psi
HC-NF16 HD	1" NPT Female Coupler	690 bar	10.000 psi



## NPT SLIMLINE COUPLERS

Slimline couplers are designed to be used ONLY for high pressure waterjetting applications, such as tube bundle cleaning.

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HCSL-NF1	1/16" NPT Female Slimline Coupler 0.375" OD	690 bar	10.000 psi
HCSL-NF2-NF1	1/8" NPT Female x 1/16" NPT Female Slimline Coupler 0.480" OD	690 bar	10.000 psi
HCSL-NF2	1/8" NPT Female Slimline Coupler 0.480" OD	690 bar	10.000 psi
HCSL-NF4	1/4" NPT Female Slimline Coupler 0.690" OD	690 bar	10.000 psi
HCSL-NF6	3/8" NPT Female Slimline Coupler 0.875" OD	690 bar	10.000 psi
HCSL-NF8	1/2" NPT Female Slimline Coupler 1.130" OD	690 bar	10.000 psi

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## JIC MALE X JIC MALE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HMJ4-MJ4	1/4" JIC Male x 1/4" JIC Male	1.035 bar	15.000 psi
HMJ4-MJ6	1/4" JIC Male x 3/8" JIC Male	1.035 bar	15.000 psi
HMJ4-MJ8	1/4" JIC Male x 1/2" JIC Male	1.035 bar	15.000 psi
HMJ6-MJ6	3/8" JIC Male x 3/8" JIC Male	1.035 bar	15.000 psi
HMJ6-MJ8	3/8" JIC Male x 1/2" JIC Male	1.035 bar	15.000 psi
HMJ8-MJ8	1/2" JIC Male x 1/2" JIC Male	1.035 bar	15.000 psi
HMJ16-MJ16	1" JIC Male x 1" JIC Male	690 bar	10.000 psi



## JIC MALE X HIGH-PRESSURE MALE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HMJ4-HM4	1/4" JIC Male x 1/4" HP Male	1.035 bar	15.000 psi
HMJ4-HM6	1/4" JIC Male x 3/8" HP Male	1.035 bar	15.000 psi
HMJ4-HM9	1/4" JIC Male x 9/16" HP Male	1.035 bar	15.000 psi
HMJ6-HM4	3/8" JIC Male x 1/4" HP Male	1.035 bar	15.000 psi
HMJ6-HM6	3/8" JIC Male x 3/8" HP Male	1.035 bar	15.000 psi
HMJ6-HM9	3/8" JIC Male x 9/16" HP Male	1.035 bar	15.000 psi
HMJ8-HM4	1/2" JIC Male x 1/4" HP Male	1.035 bar	15.000 psi
HMJ8-HM6	1/2" JIC Male x 3/8" HP Male	1.035 bar	15.000 psi
HMJ8-HM9	1/2" JIC Male x 9/16" HP Male	1.035 bar	15.000 psi

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## JIC MALE X MEDIUM PRESSURE MALE

PART NUMBER	DESCRIPTION	WORKING PRESSURE	
HMJ4-MM4	1/4" JIC Male x 1/4" MP Male	1.035 bar	15.000 psi
HMJ4-MM6	1/4" JIC Male x 3/8" MP Male	1.035 bar	15.000 psi
HMJ4-MM9	1/4" JIC Male x 9/16" MP Male	1.035 bar	15.000 psi
HMJ6-MM12	3/8" JIC Male x 3/4" MP Male	1.035 bar	15.000 psi
HMJ6-MM4	3/8" JIC Male x 1/4" MP Male	1.035 bar	15.000 psi
HMJ6-MM6	3/8" JIC Male x 3/8" MP Male	1.035 bar	15.000 psi
HMJ6-MM9	3/8" JIC Male x 9/16" MP Male	1.035 bar	15.000 psi
HMJ8-MM12	1/2" JIC Male x 3/4" MP Male	1.035 bar	15.000 psi
HMJ8-MM16	1/2" JIC Male x 1" MP Male	1.035 bar	15.000 psi
HMJ8-MM4	1/2" JIC Male x 1/4" MP Male	1.035 bar	15.000 psi
HMJ8-MM6	1/2" JIC Male x 3/8" MP Male	1.035 bar	15.000 psi
HMJ8-MM9	1/2" JIC Male x 9/16" MP Male	1.035 bar	15.000 psi
HMJ12-MM9	3/4" JIC Male x 9/16" MP Male	690 bar	10.000 psi
HMJ12-MM12	3/4" JIC Male x 3/4" MP Male	690 bar	10.000 psi
HMJ12-MM16	3/4" JIC Male x 1" MP Male	690 bar	10.000 psi
HMJ16-MM9	1" JIC Male x 9/16" MP Male	690 bar	10.000 psi
HMJ16-MM12	1" JIC Male x 3/4" MP Male	690 bar	10.000 psi
HMJ16-MM16	1" JIC Male x 1" MP Male	690 bar	10.000 psi

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## JIC MALE X NPT MALE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HMJ4-NM2	1/4" JIC Male x 1/8" NPT Male	1.035 bar	15.000 psi
HMJ4-NM4	1/4" JIC Male x 1/4" NPT Male	1.035 bar	15.000 psi
HMJ4-NM6	1/4" JIC Male x 3/8" NPT Male	1.035 bar	15.000 psi
HMJ4-NM8	1/4" JIC Male x 1/2" NPT Male	1.035 bar	15.000 psi
HMJ6-NM4	3/8" JIC Male x 1/4" NPT Male	1.035 bar	15.000 psi
HMJ6-NM6	3/8" JIC Male x 3/8" NPT Male	1.035 bar	15.000 psi
HMJ6-NM8	3/8" JIC Male x 1/2" NPT Male	1.035 bar	15.000 psi
HMJ6-NM12	3/8" JIC Male x 3/4" NPT Male	690 bar	10.000 psi
HMJ8-NM4	1/2" JIC Male x 1/4" NPT Male	1.035 bar	15.000 psi
HMJ8-NM6	1/2" JIC Male x 3/8" NPT Male	1.035 bar	15.000 psi
HMJ8-NM8	1/2" JIC Male x 1/2" NPT Male	1.035 bar	15.000 psi
HMJ8-NM12	1/2" JIC Male x 3/4" NPT Male	690 bar	10.000 psi
HMJ8-NM16	1/2" JIC Male x 1" NPT Male	690 bar	10.000 psi
HMJ12-NM12	3/4" JIC Male x 3/4" NPT Male	690 bar	10.000 psi
HMJ12-NM16	3/4" JIC Male x 1" NPT Male	690 bar	10.000 psi
HMJ16-NM12	1" JIC Male x 3/4" NPT Male	690 bar	10.000 psi
HMJ16-NM16	1" JIC Male x 1" NPT Male	690 bar	10.000 psi

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## TYPE M MALE X MALE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
M9-M9	9/16"-18 Type M x 9/16"-18 Type M	3.450 bar	50.000 psi
M12-M9	3/4"-16 Type M x 9/16"-18 Type M	2.070 bar	30.000 psi
M12-M12	3/4"-16 Type M x 3/4"-16 Type M	2.070 bar	30.000 psi
M14-M9	7/8"-14 Type M x 9/16"-18 Type M	3.450 bar	50.000 psi
M14-M12	7/8"-14 Type M x 3/4"-16 Type M	2.070 bar	30.000 psi
M14-M14	7/8"-14 Type M x 7/8"-14 Type M	3.450 bar	50.000 psi
M16-M9	1"-12 Type M x 9/16"-18 Type M	2.070 bar	30.000 psi
M16-M12	1"-12 Type M x 3/4"-16 Type M	2.070 bar	30.000 psi
M16-M16	1"-12 Type M x 1"-12 Type M	2.070 bar	30.000 psi
M18-M9	1 1/8"-12 Type M x 9/16"-18 Type M	3.450 bar	50.000 psi
M18-M14	1 1/8"-12 Type M x 7/8"-14 Type M	3.450 bar	50.000 psi
M18-M18	1 1/8"-12 Type M x 1 1/8"-12 Type M	3.450 bar	50.000 psi
M21-M9	1 5/16"-12 Type M x 9/16"-18 Type M	1.380 bar	20.000 psi
M21-M12	1 5/16"-12 Type M x 3/4"-16 Type M	1.380 bar	20.000 psi
M21-M16	1 5/16"-12 Type M x 1"-12 Type M	1.380 bar	20.000 psi
M21-M21	1 5/16"-12 Type M x 1 5/16"-12 Type M	1.380 bar	20.000 psi



## TYPE M MALE X HIGH-PRESSURE MALE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
M9-HP4	9/16"-18 Type M x 1/4" HP Male	3.450 bar	50.000 psi
M9-HP6	9/16"-18 Type M x 3/8" HP Male	3.450 bar	50.000 psi
M9-HP9	9/16"-18 Type M x 9/16" HP Male	3.450 bar	50.000 psi
M12-HP4	3/4"-16 Type M x 1/4" HP Male	2.070 bar	30.000 psi
M12-HP6	3/4"-16 Type M x 3/8" HP Male	2.070 bar	30.000 psi
M12-HP9	3/4"-16 Type M x 9/16" HP Male	2.070 bar	30.000 psi
M14-HP6	7/8"-14 Type M x 3/8" HP Male	3.450 bar	50.000 psi
M14-HP9	7/8"-14 Type M x 9/16" HP Male	3.450 bar	50.000 psi
M16-HP6	1"-12 Type M x 3/8" HP Male	2.070 bar	30.000 psi
M16-HP9	1"-12 Type M x 9/16" HP Male	2.070 bar	30.000 psi
M18-HP9	1 1/8"-12 Type M x 9/16" HP Male	3.450 bar	50.000 psi
M21-HP9	1 5/16"-12 Type M x 9/16" HP Male	1.380 bar	20.000 psi





## TYPE M MALE X MEDIUM PRESSURE MALE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
M9-MP4	9/16"-18 Type M x 1/4" MP Male	1.380 bar	20.000 psi
M9-MP6	9/16"-18 Type M x 3/8" MP Male	1.380 bar	20.000 psi
M9-MP9	9/16"-18 Type M x 9/16" MP Male	1.380 bar	20.000 psi
M9-MP12	9/16"-18 Type M x 3/4" MP Male	1.380 bar	20.000 psi
M9-MP16	9/16"-18 Type M x 1" MP Male	1.380 bar	20.000 psi
M12-MP4	3/4"-16 Type M x 1/4" MP Male	1.380 bar	20.000 psi
M12-MP6	3/4"-16 Type M x 3/8" MP Male	1.380 bar	20.000 psi
M12-MP9	3/4"-16 Type M x 9/16" MP Male	1.380 bar	20.000 psi
M12-MP12	3/4"-16 Type M x 3/4" MP Male	1.380 bar	20.000 psi
M12-MP16	3/4"-16 Type M x 1" MP Male	1.380 bar	20.000 psi
M16-MP4	1"-12 Type M x 1/4" MP Male	1.380 bar	20.000 psi
M16-MP6	1"-12 Type M x 3/8" MP Male	1.380 bar	20.000 psi
M16-MP9	1"-12 Type M x 1/2" MP Male	1.380 bar	20.000 psi
M16-MP12	1"-12 Type M x 3/4" MP Male	1.380 bar	20.000 psi
M16-MP16	1"-12 Type M x 1" MP Male	1.380 bar	20.000 psi
M21-MP9	1 5/16" Type M x 1/2" MP Male	1.380 bar	20.000 psi
M21-MP12	1 5/16" Type M x 3/4" MP Male	1.380 bar	20.000 psi
M21-MP16	1 5/16" Type M x 1" MP Male	1.380 bar	20.000 psi

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## TYPE M MALE X NPT MALE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
M9-NM4	9/16"-18 Type M x 1/4" NPT Male	1.035 bar	15.000 psi
M9-NM6	9/16"-18 Type M x 3/8" NPT Male	1.035 bar	15.000 psi
M9-NM8	9/16"-18 Type M x 1/2" NPT Male	1.035 bar	15.000 psi
M9-NM12	9/16"-18 Type M x 3/4" NPT Male	690 bar	10.000 psi
M9-NM16	9/16"-18 Type M x 1" NPT Male	690 bar	10.000 psi
M12-NM4	3/4"-16 Type M x 1/4" NPT Male	1.035 bar	15.000 psi
M12-NM6	3/4"-16 Type M x 3/8" NPT Male	1.035 bar	15.000 psi
M12-NM8	3/4"-16 Type M x 1/2" NPT Male	1.035 bar	15.000 psi
M12-NM12	3/4"-16 Type M x 3/4" NPT Male	690 bar	10.000 psi
M12-NM16	3/4"-16 Type M x 1" NPT Male	690 bar	10.000 psi
M16-NM4	1"-12 Type M x 1/4" NPT Male	1.035 bar	15.000 psi
M16-NM6	1"-12 Type M x 3/8" NPT Male	1.035 bar	15.000 psi
M16-NM8	1"-12 Type M x 1/2" NPT Male	1.035 bar	15.000 psi
M16-NM12	1"-12 Type M x 3/4" NPT Male	690 bar	10.000 psi
M16-NM16	1"-12 Type M x 1" NPT Male	690 bar	10.000 psi
M21-NM8	1 5/16"-12 Type M x 1/2" NPT Male	1.035 bar	15.000 psi
M21-NM12	1 5/16"-12 Type M x 3/4" NPT Male	690 bar	10.000 psi
M21-NM16	1 5/16"-12 Type M x 1" NPT Male	690 bar	10.000 psi



## BSPP ADAPTORS

- 60° Internal or 120° External Sealing Cone

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
C09-125-1680	1/4" MBSPP-Ext. x 1/4" HP Male	2.070 bar	30.000 psi
C09-125-1681	1/4" MBSPP-Ext. x 1/4" MP Male	1.380 bar	20.000 psi
C19-950-0029	1/4" MBSPP-Ext. x 9/16"-18 Type M Male	2.070 bar	30.000 psi
C19-950-1601	1/4" MBSPP-Ext. x 1/4" MBSPP-Ext.	2.070 bar	30.000 psi
C19-950-1602	1/4" MBSPP-Ext. x 1/4" MBSPP-Int.	2.070 bar	30.000 psi
C19-950-1622	1/4" MBSPP-Int. x 1/4" MBSPP-Int.	2.070 bar	30.000 psi

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## BSPP MALE CONNECTORS-INT.

PART NUMBER	DESCRIPTION	WORKING PRESSURE	
HBM4-BM4	G1/4" Male Connector	2.070 bar	30.000 psi
HBM4-BM4-W	G1/4" Male Connector	3.200 bar	46.400 psi
HBM6-BM6	G3/8" Male Connector	2.070 bar	30.000 psi
HBM8-BM8	G1/2" Male Connector	2.070 bar	30.000 psi
HBM12-BM12	G3/4" Male Connector	2.070 bar	30.000 psi



## BSPP MALE X NPT MALE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
C19-950-1625	1/4" MBSPP-Ext. x 1/4" NPT Male	1.035 bar	15.000 psi
HBM4-NM4	1/4" MBSPP-Int. x 1/4" NPT Male	1.035 bar	15.000 psi
HBM4-NM8	1/4" MBSPP-Int. x 1/2" NPT Male	1.035 bar	15.000 psi

## BSPP ADAPTORS

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
C19-950-0062	1/4" BSPP Bonded Seal	1.000 bar	14.500 psi
C19-950-0083	1/4" BSPP Bonded Seal	1.500 bar	21.750 psi

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## METRIC MALE X MALE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HMEM14-MEM14	M14x1.5 Male Connector	1.800 bar	26.100 psi
HMEM14-MEM14-W	M14x1.5 Male Connector	3.200 bar	46.400 psi
HMEM18-MEM18	M18x1.5 Male Connector	1.520 bar	22.040 psi
HMEM20-MEM20	M20x1.5 Male Connector	1.520 bar	22.040 psi
HMEM20-MEM20-W	M20x1.5 Male Connector	2.500 bar	36.250 psi
HMEM22-MEM22	M22x1.5 Male Connector	1.920 bar	21.750 psi
HMEM22-MEM22-W	M22x1.5 Male Connector	2.500 bar	36.250 psi
HMEM24-MEM22	M24x1.5 Male x M22x1.5 Male Connector	1.920 bar	27.840 psi
HMEM24-MEM22-W	M24x1.5 Male x M22x1.5 Male Connector	2.800 bar	40.600 psi
HMEM24-MEM24	M24x1.5 Male Connector	1.520 bar	22.040 psi
HMEM24-MEM24-W	M24x1.5 Male Connector	2.800 bar	40.600 psi
HMEM30-MEM30	M30x2 Male Connector	1.040 bar	15.080 psi
HMEM30-MEM30-W	M30x2 Male Connector	1.520 bar	22.040 psi
HMEM36-MEM24	M36x2 Male x M24x1.5 Male Connector	1.040 bar	15.080 psi
HMEM36-MEM24-W	M36x2 Male x M24x1.5 Male Connector	1.520 bar	22.040 psi
HMEM36-MEM36	M36x2 Male Connector	1.040 bar	15.080 psi
HMEM36-MEM36-W	M36x2 Male Connector	1.520 bar	22.040 psi
HMEM42-MEM36	M42x2 Male x M36x2 Male Connector	1.040 bar	15.080 psi
HMEM42-MEM36-W	M42x2 Male x M36x2 Male Connector	1.520 bar	22.040 psi
HMEM42-MEM42	M42x2 Male Connector	900 bar	13.050 psi
HMEM42-MEM42-W	M42x2 Male Connector	1.400 bar	20.300 psi



## METRIC MALE (FOR O-RING SEAL) X BSPP MALE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HMEM24-BM4	M24x1.5 Male x 1/4" BSP Male Connector	1.800 bar	26.100 psi
HMEM24-BM4-W	M24x1.5 Male x 1/4" BSP Male Connector	3.200 bar	46.400 psi
HMEM24-BM6	M24x1.5 Male x 3/8" BSP Male Connector	1.500 bar	21.750 psi

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## HIGH-PRESSURE FEMALE ELBOWS (UNF)

- Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HEHF4	1/4" HP Female Elbow	4.140 bar	60.000 psi
HEHF6	3/8" HP Female Elbow	4.140 bar	60.000 psi
HEHF9	9/16" HP Female Elbow	4.140 bar	60.000 psi



## MEDIUM PRESSURE FEMALE ELBOWS

- Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HEMF4	1/4" MP Female Elbow	1.380 bar	20.000 psi
HEMF6	3/8" MP Female Elbow	1.380 bar	20.000 psi
HEMF9	9/16" MP Female Elbow	1.380 bar	20.000 psi
HEMF12	3/4" MP Female Elbow	1.380 bar	20.000 psi
HEMF16	1" MP Female Elbow	1.380 bar	20.000 psi



## NPT FEMALE ELBOWS

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HENF4	1/4" NPT Female Elbow	1.035 bar	15.000 psi
HENF6	3/8" NPT Female Elbow	1.035 bar	15.000 psi
HENF8	1/2" NPT Female Elbow	1.035 bar	15.000 psi
HENF12	3/4" NPT Female Elbow	690 bar	10.000 psi
HENF16	1" NPT Female Elbow	690 bar	10.000 psi



## NPT STREET ELBOWS

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HSENF4	1/4" NPT Male x NPT Female Street Elbow	1.035 bar	15.000 psi
HSENF6	3/8" NPT Male x NPT Female Street Elbow	1.035 bar	15.000 psi
HSENF8	1/2" NPT Male x NPT Female Street Elbow	1.035 bar	15.000 psi

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## BSPP ELBOW

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
C19-950-HEBM4	1/4" MBSPP-Ext. Elbow	2.070 bar	30.000 psi



## HIGH-PRESSURE FEMALE TEES (UNF)

- Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HTHF4	1/4" HP Female Tee	4.140 bar	60.000 psi
HTHF6	3/8" HP Female Tee	4.140 bar	60.000 psi
HTHF9	9/16" HP Female Tee	4.140 bar	60.000 psi



## HIGH-PRESSURE FEMALE TEE (METRIC)

- Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HT-MEF30-CLR-M14	Tee M30x2 female incl. collars M14 and gland nuts	4.000 bar	58.000 psi



## MEDIUM PRESSURE FEMALE TEES

- Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HTMF4	1/4" MP Female Tee	1.380 bar	20.000 psi
HTMF6	3/8" MP Female Tee	1.380 bar	20.000 psi
HTMF9	9/16" MP Female Tee	1.380 bar	20.000 psi
HTMF12	3/4" MP Female Tee	1.380 bar	20.000 psi
HTMF16	1" MP Female Tee	1.380 bar	20.000 psi

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## NPT FEMALE TEES

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HTNF4	1/4" NPT Female Tee	1.035 bar	15.000 psi
HTNF6	3/8" NPT Female Tee	1.035 bar	15.000 psi
HTNF8	1/2" NPT Female Tee	1.035 bar	15.000 psi
HTNF12	3/4" NPT Female Tee	690 bar	10.000 psi
HTNF16	1" NPT Female Tee	690 bar	10.000 psi



## NPT STREET TEES

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HSTNF4	1/4" NPT Male x NPT Female Street Tee	1.035 bar	15.000 psi
HSTNF6	3/8" NPT Male x NPT Female Street Tee	1.035 bar	15.000 psi
HSTNF8	1/2" NPT Male x NPT Female Street Tee	1.035 bar	15.000 psi

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## BSPP TEES

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
C19-950-1681	1/4" BSPP-Ext. Female Tee	2.070 bar	30.000 psi



## HIGH-PRESSURE FEMALE Y'S (METRIC) - Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HY-MEF30-CLR-M14	Y M30x2 female incl. collars M14 and gland nuts	4.000 bar	58.000 psi



## HIGH-PRESSURE FEMALE CROSSES (UNF) - Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HCRHF4	1/4" HP Female Cross	4.140 bar	60.000 psi
HCRHF6	3/8" HP Female Cross	4.140 bar	60.000 psi
HCRHF9	9/16" HP Female Cross	4.140 bar	60.000 psi

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## MEDIUM PRESSURE FEMALE CROSSES

- Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HCRMF4	1/4" MP Female Cross	1.380 bar	20.000 psi
HCRMF6	3/8" MP Female Cross	1.380 bar	20.000 psi
HCRMF9	9/16" MP Female Cross	1.380 bar	20.000 psi
HCRMF12	3/4" MP Female Cross	1.380 bar	20.000 psi
HCRMF16	1" MP Female Cross	1.380 bar	20.000 psi



## NPT FEMALE CROSSES

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HCRNF4	1/4" NPT Female Cross	1.035 bar	15.000 psi
HCRNF6	3/8" NPT Female Cross	1.035 bar	15.000 psi
HCRNF8	1/2" NPT Female Cross	1.035 bar	15.000 psi
HCRNF12	3/4" NPT Female Cross	690 bar	10.000 psi
HCRNF16	1" NPT Female Cross	690 bar	10.000 psi



## BSPP CROSSES

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
C19-950-1680	1/4" BSPP-Ext. Female Cross	2.070 bar	30.000 psi



## HIGH-PRESSURE BULKHEADS (UNF)

- Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HC-HF4-BH	1/4" HP Female Bulkhead	4.140 bar	60.000 psi
HC-HF6-BH	3/8" HP Female Bulkhead	4.140 bar	60.000 psi
HC-HF9-BH	9/16" HP Female Bulkhead	4.140 bar	60.000 psi

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## HIGH-PRESSURE BULKHEADS (METRIC)

- Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HC-MEF30-CLR-M14-BH	Bulkhead coupling M30x	4.000 bar	58.000 psi



## MEDIUM PRESSURE BULKHEADS

- Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HC-MF4-BH	1/4" MP Female Bulkhead	1.380 bar	20.000 psi
HC-MF6-BH	3/8" MP Female Bulkhead	1.380 bar	20.000 psi
HC-MF9-BH	9/16" MP Female Bulkhead	1.380 bar	20.000 psi
HC-MF12-BH	3/4" MP Female Bulkhead	1.380 bar	20.000 psi
HC-MF16-BH	1" MP Female Bulkhead	1.380 bar	20.000 psi



## HIGH- PRESSURE TUBE NIPPLES

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HHM4-3.00	1/4" HP Nipple x 3" Long	4.140 bar	60.000 psi
HHM4-6.00	1/4" HP Nipple x 6" Long	4.140 bar	60.000 psi
HHM4-8.00	1/4" HP Nipple x 8" Long	4.140 bar	60.000 psi
HHM4-10.00	1/4" HP Nipple x 10" Long	4.140 bar	60.000 psi
HHM4-12.00	1/4" HP Nipple x 12" Long	4.140 bar	60.000 psi
HHM6-3.00	3/8" HP Nipple x 3" Long	4.140 bar	60.000 psi
HHM6-6.00	3/8" HP Nipple x 6" Long	4.140 bar	60.000 psi
HHM6-8.00	3/8" HP Nipple x 8" Long	4.140 bar	60.000 psi
HHM6-10.00	3/8" HP Nipple x 10" Long	4.140 bar	60.000 psi
HHM6-12.00	3/8" HP Nipple x 12" Long	4.140 bar	60.000 psi
HHM9-3.00	9/16" HP Nipple x 3" Long	4.140 bar	60.000 psi
HHM9-6.00	9/16" HP Nipple x 6" Long	4.140 bar	60.000 psi
HHM9-8.00	9/16" HP Nipple x 8" Long	4.140 bar	60.000 psi
HHM9-10.00	9/16" HP Nipple x 10" Long	4.140 bar	60.000 psi
HHM9-12.00	9/16" HP Nipple x 12" Long	4.140 bar	60.000 psi

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## MEDIUM PRESSURE TUBE NIPPLES

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HMM4-3.00	1/4" MP Nipple x 3" Long	1.380 bar	20.000 psi
HMM4-4.00	1/4" MP Nipple x 6" Long	1.380 bar	20.000 psi
HMM4-8.00	1/4" MP Nipple x 8" Long	1.380 bar	20.000 psi
HMM4-10.00	1/4" MP Nipple x 10" Long	1.380 bar	20.000 psi
HMM4-12.00	1/4" MP Nipple x 12" Long	1.380 bar	20.000 psi
HMM6-3.00	3/8" MP Nipple x 3" Long	1.380 bar	20.000 psi
HMM6-6.00	3/8" MP Nipple x 6" Long	1.380 bar	20.000 psi
HMM6-8.00	3/8" MP Nipple x 8" Long	1.380 bar	20.000 psi
HMM6-10.00	3/8" MP Nipple x 10" Long	1.380 bar	20.000 psi
HMM6-12.00	3/8" MP Nipple x 12" Long	1.380 bar	20.000 psi
HMM9-3.00	9/16" MP Nipple x 3" Long	1.380 bar	20.000 psi
HMM9-6.00	9/16" MP Nipple x 6" Long	1.380 bar	20.000 psi
HMM9-8.00	9/16" MP Nipple x 8" Long	1.380 bar	20.000 psi
HMM9-10.00	9/16" MP Nipple x 10" Long	1.380 bar	20.000 psi
HMM9-12.00	9/16" MP Nipple x 12" Long	1.380 bar	20.000 psi



## NPT PIPE NIPPLES

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HNM4-3.00	1/4" NPT Male Nipple x 3" Long	1.035 bar	15.000 psi
HNM4-6.00	1/4" NPT Male Nipple x 6" Long	1.035 bar	15.000 psi
HNM4-8.00	1/4" NPT Male Nipple x 8" Long	1.035 bar	15.000 psi
HNM4-10.00	1/4" NPT Male Nipple x 10" Long	1.035 bar	15.000 psi
HNM4-12.00	1/4" NPT Male Nipple x 12" Long	1.035 bar	15.000 psi
HNM6-3.00	3/8" NPT Male Nipple x 3" Long	1.035 bar	15.000 psi
HNM6-6.00	3/8" NPT Male Nipple x 6" Long	1.035 bar	15.000 psi
HNM6-8.00	3/8" NPT Male Nipple x 8" Long	1.035 bar	15.000 psi
HNM6-10.00	3/8" NPT Male Nipple x 10" Long	1.035 bar	15.000 psi
HNM6-12.00	3/8" NPT Male Nipple x 12" Long	1.035 bar	15.000 psi
HNM8-3.00	1/2" NPT Male Nipple x 3" Long	1.035 bar	15.000 psi
HNM8-6.00	1/2" NPT Male Nipple x 6" Long	1.035 bar	15.000 psi
HNM8-8.00	1/2" NPT Male Nipple x 8" Long	1.035 bar	15.000 psi
HNM8-10.00	1/2" NPT Male Nipple x 10" Long	1.035 bar	15.000 psi
HNM8-12.00	1/2" NPT Male Nipple x 12" Long	1.035 bar	15.000 psi
HNM12-4.00	3/4" NPT Male Nipple x 4" Long	690 bar	10.000 psi
HNM12-6.00	3/4" NPT Male Nipple x 6" Long	690 bar	10.000 psi
HNM16-4.00	1" NPT Male Nipple x 4" Long	690 bar	10.000 psi
HNM16-6.00	1" NPT Male Nipple x 6" Long	690 bar	10.000 psi

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## HIGH-PRESSURE PLUGS

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HMM4-PLUG	1/4" HP Plug	4.140 bar	60.000 psi
HMM6-PLUG	3/8" HP Plug	4.140 bar	60.000 psi
HMM9-PLUG	9/16" HP Plug	4.140 bar	60.000 psi



## MEDIUM PRESSURE PLUGS

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HMM4-PLUG	1/4" MP Plug	1.380 bar	20.000 psi
HMM6-PLUG	3/8" MP Plug	1.380 bar	20.000 psi
HMM9-PLUG	9/16" MP Plug	1.380 bar	20.000 psi
HMM12-PLUG	3/4" MP Plug	1.380 bar	20.000 psi
HMM16-PLUG	1" MP Plug	1.380 bar	20.000 psi



## NPT PLUGS

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HNM1-PLUG	1/16" NPT Male Plug	1.035 bar	15.000 psi
HNM2-PLUG	1/8" NPT Male Plug	1.035 bar	15.000 psi
HNM4-PLUG	1/4" NPT Male Plug	1.035 bar	15.000 psi
HNM6-PLUG	3/8" NPT Male Plug	1.035 bar	15.000 psi
HNM8-PLUG	1/2" NPT Male Plug	1.035 bar	15.000 psi
HNM12-PLUG	3/4" NPT Male Plug	690 bar	10.000 psi
HNM16-PLUG	1" NPT Male Plug	690 bar	10.000 psi

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## JIC PLUGS

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HMJ4-PLUG	1/4" JIC Male Plug	1.035 bar	15.000 psi
HMJ6-PLUG	3/8" JIC Male Plug	1.035 bar	15.000 psi
HMJ8-PLUG	1/2" JIC Male Plug	1.035 bar	15.000 psi
HMJ12-PLUG	3/4" JIC Male Plug	690 bar	10.000 psi
HMJ16-PLUG	1" JIC Male Plug	690 bar	10.000 psi



## TYPE M PLUGS

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
M9-PLUG	9/16"-18 Type M Plug	3.450 bar	50.000 psi
M12-PLUG	3/4"-16 Type M Plug	2.070 bar	30.000 psi
M14-PLUG	7/8"-14 Type M Plug	2.070 bar	30.000 psi
M16-PLUG	1"-12 Type M Plug	2.070 bar	30.000 psi
M18-PLUG	1 1/8"-12 Type M Plug	2.070 bar	30.000 psi
M21-PLUG	1 5/16"-12 Type M Plug	1.380 bar	20.000 psi



## BSPP PLUG

### - 120° External Sealing Cone

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
C19-950-PLUG	1/4" MBSP-Ext. Plug	2.070 bar	30.000 psi

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## HIGH-PRESSURE GLAND NUTS & COLLARS (UNF)

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
CLR-1/4HP	1/4" HP Collar	4.140 bar	60.000 psi
CLR-3/8HP	3/8" HP Collar	4.140 bar	60.000 psi
CLR-9/16HP	9/16" HP Collar	4.140 bar	60.000 psi
GN-1/4HP	1/4" HP Gland Nut	4.140 bar	60.000 psi
GN-1/4HP-AV	1/4" HP Collar & Gland Nut Anti-Vibration	4.140 bar	60.000 psi
GN-3/8HP	3/8" HP Gland Nut	4.140 bar	60.000 psi
GN-3/8HP-AV	3/8" HP Collar & Gland Nut Anti-Vibration	4.140 bar	60.000 psi
GN-9/16HP	9/16" HP Gland Nut	4.140 bar	60.000 psi
GN-9/16HP-AV	9/16" HP Collar & Gland Nut Anti-Vibration	4.140 bar	60.000 psi



## HIGH-PRESSURE GLAND NUTS & COLLARS (METRIC)

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
CLR-1/4HP	1/4" HP Collar	4.140 bar	60.000 psi
CLR-3/8HP	3/8" HP Collar	4.140 bar	60.000 psi
CLR-9/16HP	9/16" HP Collar	4.140 bar	60.000 psi
CLR-M14	M14x1.5 LH Collar for M30x2 (GN-M30)	4.140 bar	60.000 psi
CLR-M18	M18x1.5 LH Collar for M30x2 (GN-M30-M18)	4.140 bar	60.000 psi
GN-M16	M16x1.5 Gland Nut	4.140 bar	60.000 psi
GN-M20	M20x1.5 Gland Nut	4.140 bar	60.000 psi
GN-M26	M26x1.5 Gland Nut	4.140 bar	60.000 psi
GN-M30-M18	M30x2 Gland Nut for M18x1.5 (CLR-M18-M30)	4.140 bar	60.000 psi
GN-M30	M30x2 Gland Nut for M14x1.5 LH (CLR-M14) & 9/16"x18UNF LH (CLR-9/16-HP)	4.140 bar	60.000 psi

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## MEDIUM PRESSURE GLAND NUTS & COLLARS

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
CLR-1/4MP	1/4" MP Collar	1.380 bar	20.000 psi
CLR-3/8MP	3/8" MP Collar	1.380 bar	20.000 psi
CLR-9/16MP	9/16" MP Collar	1.380 bar	20.000 psi
CLR-3/4MP	3/4" MP Collar	1.380 bar	20.000 psi
CLR-1MP	1" MP Collar	1.380 bar	20.000 psi
GN-1/4MP	1/4" MP Gland Nut	1.380 bar	20.000 psi
GN-1/4MP-AV	1/4" MP Collar & Gland Nut Anti-Vibration	1.380 bar	20.000 psi
GN-3/8MP	3/8" MP Gland Nut	1.380 bar	20.000 psi
GN-3/8MP-AV	3/8" MP Collar & Gland Nut Anti-Vibration	1.380 bar	20.000 psi
GN-9/16MP	9/16" MP Gland Nut	1.380 bar	20.000 psi
GN-9/16MP-AV	9/16" MP Collar & Gland Nut Anti-Vibration	1.380 bar	20.000 psi
GN-3/4MP	3/4" MP Gland Nut	1.380 bar	20.000 psi
GN-1MP	1" MP Gland Nut	1.380 bar	20.000 psi



## HIGH-PRESSURE CAPS (UNF)

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HHF4-CAP	1/4" HP Female Cap	4.140 bar	60.000 psi
HHF6-CAP	3/8" HP Female Cap	4.140 bar	60.000 psi
HHF9-CAP	9/16" HP Female Cap	4.140 bar	60.000 psi



## MEDIUM PRESSURE CAPS

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HMF4-CAP	1/4" MP Female Cap	1.380 bar	20.000 psi
HMF6-CAP	3/8" MP Female Cap	1.380 bar	20.000 psi
HMF9-CAP	9/16" MP Female Cap	1.380 bar	20.000 psi
HMF12-CAP	3/4" MP Female Cap	1.380 bar	20.000 psi
HMF16-CAP	1" MP Female Cap	1.380 bar	20.000 psi

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## JIC CAPS

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HFJ4-CAP	1/4" JIC Female Cap	1.035 bar	15.000 psi
HFJ6-CAP	3/8" JIC Female Cap	1.035 bar	15.000 psi
HFJ8-CAP	1/2" JIC Female Cap	1.035 bar	15.000 psi
HFJ12-CAP	3/4" JIC Female Cap	690 bar	10.000 psi
HFJ16-CAP	1" JIC Female Cap	690 bar	10.000 psi



## TYPE M CAPS

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
M9-CAP	9/16"-18 Type M Cap	3.450 bar	50.000 psi
M12-CAP	3/4"-16 Type M Cap	2.070 bar	30.000 psi
M16-CAP	1"-12 Type M Cap	2.070 bar	30.000 psi
M21-CAP	1 5/16"-12 Type M Cap	1.380 bar	20.000 psi



## HIGH-PRESSURE TUBING

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
TU-HP4-60K	HP Tubing 1/4" OD X 0.083" ID	4.140 bar	60.000 psi
TU-HP6-60K	HP Tubing 3/8" OD X 0.125" ID	4.140 bar	60.000 psi
TU-HP9-60K	HP Tubing 9/16" OD X 0.188" ID	4.140 bar	60.000 psi



## MEDIUM PRESSURE TUBING

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
TU-MP4-20K	MP Tubing 1/4" OD X 0.109" ID	1.380 bar	20.000 psi
TU-MP6-20K	MP Tubing 3/8" OD X 0.203" ID	1.380 bar	20.000 psi
TU-MP9-20K	MP Tubing 9/16" OD X 0.312" ID	1.380 bar	20.000 psi
TU-MP12-20K	MP Tubing 3/4" OD X 0.438" ID	1.380 bar	20.000 psi
TU-MP16-20K	MP Tubing 1" OD X 0.562" ID	1.380 bar	20.000 psi

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## NEEDLE VALVES 30K TO 60K

### - Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HVHF4-30K	1/4" HP Female Two Way Straight Needle Valve	2.070 bar	30.000 psi
HVHF4-60K	1/4" HP Female Two Way Straight Needle Valve	4.140 bar	60.000 psi
HVHF4-12-30K	1/4" HP Female Two Way Angle Needle Valve	2.070 bar	30.000 psi
HVHF4-12-60K	1/4" HP Female Two Way Angle Needle Valve	4.140 bar	60.000 psi
HVHF4-14-30K	1/4" HP Female Three Way Straight Needle Valve	2.070 bar	30.000 psi
HVHF4-14-60K	1/4" HP Female Three Way Straight Needle Valve	4.140 bar	60.000 psi
HVHF6-30K	3/8" HP Female Two Way Straight Needle Valve	2.070 bar	30.000 psi
HVHF6-60K	3/8" HP Female Two Way Straight Needle Valve	4.140 bar	60.000 psi
HVHF6-12-30K	3/8" HP Female Two Way Angle Needle Valve	2.070 bar	30.000 psi
HVHF6-12-60K	3/8" HP Female Two Way Angle Needle Valve	4.140 bar	60.000 psi
HVHF6-14-30K	3/8" HP Female Three Way Straight Needle Valve	2.070 bar	30.000 psi
HVHF6-14-60K	3/8" HP Female Three Way Straight Needle Valve	4.140 bar	60.000 psi
HVHF9-30K	9/16" HP Female Two Way Straight Needle Valve	2.070 bar	30.000 psi
HVHF9-60K	9/16" HP Female Two Way Straight Needle Valve	4.140 bar	60.000 psi
HVHF9-12-30K	9/16" HP Female Two Way Angle Needle Valve	2.070 bar	30.000 psi
HVHF9-12-60K	9/16" HP Female Two Way Angle Needle Valve	4.140 bar	60.000 psi
HVHF9-14-30K	9/16" HP Female Three Way Straight Needle Valve	2.070 bar	30.000 psi
HVHF9-14-60K	9/16" HP Female Three Way Straight Needle Valve	4.140 bar	60.000 psi



## NEEDLE VALVES 20K

### - Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HVMF4-20K	1/4" MP Female Two Way Straight Needle Valve	1.380 bar	20.000 psi
HVMF4-12-20K	1/4" MP Female Two Way Angle Needle Valve	1.380 bar	20.000 psi
HVMF4-14-20K	1/4" MP Female Three Way Straight Needle Valve	1.380 bar	20.000 psi
HVMF6-20K	3/8" MP Female Two Way Straight Needle Valve	1.380 bar	20.000 psi
HVMF6-12-20K	3/8" MP Female Two Way Angle Needle Valve	1.380 bar	20.000 psi
HVMF6-14-20K	3/8" MP Female Three Way Straight Needle Valve	1.380 bar	20.000 psi
HVMF9-20K	9/16" MP Female Two Way Straight Needle Valve	1.380 bar	20.000 psi
HVMF9-12-20K	9/16" MP Female Two Way Angle Needle Valve	1.380 bar	20.000 psi
HVMF9-14-20K	9/16" MP Female Three Way Straight Needle Valve	1.380 bar	20.000 psi

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## NEEDLE VALVES 15K

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HVNF4-15K	1/4" NPT Female Two Way Straight Needle Valve	1.035 bar	15.000 psi
HVNF4-12-15K	1/4" NPT Female Two Way Angle Needle Valve	1.035 bar	15.000 psi
HVNF6-15K	3/8" NPT Female Two Way Straight Needle Valve	1.035 bar	15.000 psi
HVNF6-12-15K	3/8" NPT Female Two Way Angle Needle Valve	1.035 bar	15.000 psi
HVNF8-15K	1/2" NPT Female Two Way Straight Needle Valve	1.035 bar	15.000 psi
HVNF8-12-15K	1/2" NPT Female Two Way Angle Needle Valve	1.035 bar	15.000 psi
HVNF8NM8-15K	1/2" NPT Female x 1/2" NPT Male Two Way Straight Needle Valve	1.035 bar	15.000 psi



## TWO WAY BALL VALVES 20K - Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HVBMF4-20K	1/4" MP Female Two Way Straight Ball Valve	1.380 bar	20.000 psi
HVBMF6-20K	3/8" MP Female Two Way Straight Ball Valve	1.380 bar	20.000 psi
HVBMF9-20K	9/16" MP Female Two Way Straight Ball Valve	1.380 bar	20.000 psi
HVBMF12-20K	3/4" MP Female Two Way Straight Ball Valve	1.380 bar	20.000 psi



## TWO WAY BALL VALVES 15K

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HVBNF4-15K	1/4" NPT Female Two Way Straight Ball Valve	1.035 bar	15.000 psi
HVBNF6-15K	3/8" NPT Female Two Way Straight Ball Valve	1.035 bar	15.000 psi
HVBNF8-15K	1/2" NPT Female Two Way Straight Ball Valve	1.035 bar	15.000 psi
HVBNF16-10K	1" NPT Female Two Way Straight Ball Valve	690 bar	10.000 psi

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## HIGH-PRESSURE CHECK VALVES 60K

- Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
CV-HF4-BS	1/4" HP Female Check Valve with ball seat	4.140 bar	60.000 psi
CV-HF4-SS	1/4" HP Female Check Valve with soft seat	4.140 bar	60.000 psi
CV-HF6-BS	3/8" HP Female Check Valve with ball seat	4.140 bar	60.000 psi
CV-HF6-SS	3/8" HP Female Check Valve with soft seat	4.140 bar	60.000 psi
CV-HF9-BS	9/16" HP Female Check Valve with ball seat	4.140 bar	60.000 psi
CV-HF9-SS	9/16" HP Female Check Valve with soft seat	4.140 bar	60.000 psi



## MEDIUM PRESSURE CHECK VALVES 20K

- Including Collars and Gland Nuts

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
CV-MF4-BS	1/4" MP Female Check Valve with ball seat	1.380 bar	20.000 psi
CV-MF4-SS	1/4" MP Female Check Valve with soft seat	1.380 bar	20.000 psi
CV-MF6-BS	3/8" MP Female Check Valve with ball seat	1.380 bar	20.000 psi
CV-MF6-SS	3/8" MP Female Check Valve with soft seat	1.380 bar	20.000 psi
CV-MF9-BS	9/16" MP Female Check Valve with ball seat	1.380 bar	20.000 psi
CV-MF9-SS	9/16" MP Female Check Valve with soft seat	1.380 bar	20.000 psi



## NPT CHECK VALVES 15K

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
CV-NF4-BS	1/4" NPT Female Check Valve with ball seat	1.035 bar	15.000 psi
CV-NF4-SS	1/4" NPT Female Check Valve with soft seat	1.035 bar	15.000 psi
CV-NF6-BS	3/8" NPT Female Check Valve with ball seat	1.035 bar	15.000 psi
CV-NF6-SS	3/8" NPT Female Check Valve with soft seat	1.035 bar	15.000 psi
CV-NF8-BS	1/2" NPT Female Check Valve with ball seat	1.035 bar	15.000 psi
CV-NF8-SS	1/2" NPT Female Check Valve with soft seat	1.035 bar	15.000 psi

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## RELIEF VALVE - MANUAL ADJUSTABLE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
HVR-10K-FA	Relief Valve - Manual Adjustable IN: 2x 1/4" NPT Female OUT: 1/4" NPT Female - From 69 to 690 bar working pressure	690 bar	10.000 psi
HVR-20K-FA	Relief Valve - Manual Adjustable IN: 1/4" HP Female OUT: 1/4" NPT Female - From 690 to 1.380 bar working pressure	1.380 bar	20.000 psi



## SCREW TYPE QUICK DISCONNECT (NO CHECK VALVE) - Stainless Steel

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
CQD-MP9-SET	9/16" MP Female Screw Together Quick Disconnect Set	1.380 bar	20.000 psi
CQD-08-SET	1/2" NPT Female Screw Together Quick Disconnect Set	1.035 bar	15.000 psi



## SCREW TYPE QUICK DISCONNECT (WITH CHECK VALVE) - Hydraulic Service

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
C-700-1452	1/4" NPT Male Screw Together Quick Disconnect Coupler	690 bar	10.000 psi
C-700-1452-m-cap	Metal cap male 1/4" NPT	0 bar	0 psi
C-700-1454	3/8" NPT Male Screw Together Quick Disconnect Coupler	690 bar	10.000 psi
C-700-1454-m-cap	Metal cap male 3/8" NPT	0 bar	0 psi
C-700-6402	1/4" NPT Female Screw Together Quick Disconnect Nipple	690 bar	10.000 psi
C-700-6402-fm-cap	Metal cap 1/4" NPT female	0 bar	0 psi
C-700-6404	3/8" NPT Female Screw Together Quick Disconnect Nipple	690 bar	10.000 psi
C-700-6404-fm-cap	Metal cap 3/8" NPT female	0 bar	0 psi

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## PUSH/PULL TYPE QUICK DISCONNECTS (NO CHECK VALVE) - Waterblast Service

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
CQD-08-FD-F	1/2" NPT Female Push/Pull Quick Disconnect Coupler	690 bar	10.000 psi
CQD-08-FD-M	1/2" NPT Female Push/Pull Quick Disconnect Nipple	690 bar	10.000 psi



## QUICK DISCONNECT FEMALE COUPLERS WITH CHECK VALVE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
SPC600-0-HP4	Coupler with Check Valve x 1/4" HP Male	2.070 bar	30.000 psi
SPC600-0-HP6	Coupler with Check Valve x 3/8" HP Male	2.070 bar	30.000 psi
SPC600-0-HP9	Coupler with Check Valve x 9/16" HP Male	2.070 bar	30.000 psi
SPC600-0-HF4	Coupler with Check Valve x 1/4" HP Female	2.070 bar	30.000 psi
SPC600-0-HF6	Coupler with Check Valve x 3/8" HP Female	2.070 bar	30.000 psi
SPC600-0-MP4	Coupler with Check Valve x 1/4" MP Male	1.380 bar	20.000 psi
SPC600-0-MP6	Coupler with Check Valve x 3/8" MP Male	1.380 bar	20.000 psi
SPC600-0-MP9	Coupler with Check Valve x 9/16" MP Male	1.380 bar	20.000 psi
SPC600-0-MP12	Coupler with Check Valve x 3/4" MP Male	1.380 bar	20.000 psi
SPC600-0-MP16	Coupler with Check Valve x 1" MP Male	1.380 bar	20.000 psi
SPC600-0-MF4	Coupler with Check Valve x 1/4" MP Female	1.380 bar	20.000 psi
SPC600-0-MF6	Coupler with Check Valve x 3/8" MP Female	1.380 bar	20.000 psi
SPC600-0-MF9	Coupler with Check Valve x 9/16" MP Female	1.380 bar	20.000 psi
SPC600-0-NM4	Coupler with Check Valve x 1/4" NPT Male	1.035 bar	15.000 psi
SPC600-0-NM6	Coupler with Check Valve x 3/8" NPT Male	1.035 bar	15.000 psi
SPC600-0-NM8	Coupler with Check Valve x 1/2" NPT Male	1.035 bar	15.000 psi
SPC600-0-NF4	Coupler with Check Valve x 1/4" NPT Female	1.035 bar	15.000 psi
SPC600-0-NF6	Coupler with Check Valve x 3/8" NPT Female	1.035 bar	15.000 psi
SPC600-0-NF8	Coupler with Check Valve x 1/2" NPT Female	1.035 bar	15.000 psi
SPC600-0-MJ4	Coupler with Check Valve x 1/4" JIC Male	1.035 bar	15.000 psi
SPC600-0-MJ6	Coupler with Check Valve x 3/8" JIC Male	1.035 bar	15.000 psi
SPC600-0-MJ8	Coupler with Check Valve x 1/2" JIC Male	1.035 bar	15.000 psi
SPC600-0-M9	Coupler with Check Valve x 9/16"-18 Type M	2.070 bar	30.000 psi
SPC600-0-M12	Coupler with Check Valve x 3/4"-16 Type M	2.070 bar	30.000 psi
SPC600-0-M14	Coupler with Check Valve x 7/8"-14 Type M	2.070 bar	30.000 psi
SPC600-0-M16	Coupler with Check Valve x 1"-12 Type M	2.070 bar	30.000 psi

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## QUICK DISCONNECT MALE NIPPLES WITH CHECK VALVE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
SPC600-2-HP4	Nipple with Check Valve x 1/4" HP Male	2.070 bar	30.000 psi
SPC600-2-HP6	Nipple with Check Valve x 3/8" HP Male	2.070 bar	30.000 psi
SPC600-2-HP9	Nipple with Check Valve x 9/16" HP Male	2.070 bar	30.000 psi
SPC600-2-MP4	Nipple with Check Valve x 1/4" MP Male	1.380 bar	20.000 psi
SPC600-2-MP6	Nipple with Check Valve x 3/8" MP Male	1.380 bar	20.000 psi
SPC600-2-MP9	Nipple with Check Valve x 9/16" MP Male	1.380 bar	20.000 psi
SPC600-2-NM4	Nipple with Check Valve x 1/4" NPT Male	1.035 bar	15.000 psi
SPC600-2-NM6	Nipple with Check Valve x 3/8" NPT Male	1.035 bar	15.000 psi
SPC600-2-NM8	Nipple with Check Valve x 1/2" NPT Male	1.035 bar	15.000 psi
SPC600-2-NF4	Nipple with Check Valve x 1/4" NPT Female	1.035 bar	15.000 psi
SPC600-2-NF6	Nipple with Check Valve x 3/8" NPT Female	1.035 bar	15.000 psi
SPC600-2-NF8	Nipple with Check Valve x 1/2" NPT Female	1.035 bar	15.000 psi
SPC600-2-MJ4	Nipple with Check Valve x 1/4" JIC Male	1.035 bar	15.000 psi
SPC600-2-MJ6	Nipple with Check Valve x 3/8" JIC Male	1.035 bar	15.000 psi
SPC600-2-MJ8	Nipple with Check Valve x 1/2" JIC Male	1.035 bar	15.000 psi
SPC600-2-M9	Nipple with Check Valve x 9/16"-18 Type M	2.070 bar	30.000 psi
SPC600-2-M12	Nipple with Check Valve x 3/4"-16 Type M	2.070 bar	30.000 psi
SPC600-2-M14	Nipple with Check Valve x 7/8"-14 Type M	2.070 bar	30.000 psi
SPC600-2-M16	Nipple with Check Valve x 1"-12 Type M	2.070 bar	30.000 psi

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## QUICK DISCONNECT MALE NIPPLES WITHOUT CHECK VALVE

PART NUMBER	DESCRIPTION	MAX WORKING PRESSURE	
SPC600-1-HP4	Nipple without Check Valve x 1/4" HP Male	2.070 bar	30.000 psi
SPC600-1-HP6	Nipple without Check Valve x 3/8" HP Male	2.070 bar	30.000 psi
SPC600-1-HP9	Nipple without Check Valve x 9/16" HP Male	2.070 bar	30.000 psi
SPC600-1-HF4	Nipple without Check Valve x 1/4" HP Female	2.070 bar	30.000 psi
SPC600-1-HF6	Nipple without Check Valve x 3/8" HP Female	2.070 bar	30.000 psi
SPC600-1-HF9	Nipple without Check Valve x 9/16" HP Female	2.070 bar	30.000 psi
SPC600-1-MP4	Nipple without Check Valve x 1/4" MP Male	1.380 bar	20.000 psi
SPC600-1-MP6	Nipple without Check Valve x 3/8" MP Male	1.380 bar	20.000 psi
SPC600-1-MP9	Nipple without Check Valve x 9/16" MP Male	1.380 bar	20.000 psi
SPC600-1-MP12	Nipple without Check Valve x 3/4" MP Male	1.380 bar	20.000 psi
SPC600-1-MP16	Nipple without Check Valve x 1" MP Male	1.380 bar	20.000 psi
SPC600-1-MF4	Nipple without Check Valve x 1/4" MP Female	1.380 bar	20.000 psi
SPC600-1-MF6	Nipple without Check Valve x 3/8" MP Female	1.380 bar	20.000 psi
SPC600-1-MF9	Nipple without Check Valve x 9/16" MP Female	1.380 bar	20.000 psi
SPC600-1-NM4	Nipple without Check Valve x 1/4" NPT Male	1.035 bar	15.000 psi
SPC600-1-NM6	Nipple without Check Valve x 3/8" NPT Male	1.035 bar	15.000 psi
SPC600-1-NM8	Nipple without Check Valve x 1/2" NPT Male	1.035 bar	15.000 psi
SPC600-1-NF4	Nipple without Check Valve x 1/4" NPT Female	1.035 bar	15.000 psi
SPC600-1-NF6	Nipple without Check Valve x 3/8" NPT Female	1.035 bar	15.000 psi
SPC600-1-NF8	Nipple without Check Valve x 1/2" NPT Female	1.035 bar	15.000 psi
SPC600-1-MJ4	Nipple without Check Valve x 1/4" JIC Male	1.035 bar	15.000 psi
SPC600-1-MJ6	Nipple without Check Valve x 3/8" JIC Male	1.035 bar	15.000 psi
SPC600-1-MJ8	Nipple without Check Valve x 1/2" JIC Male	1.035 bar	15.000 psi
SPC600-1-M12	Nipple without Check Valve x 3/4"-16 Type M	2.070 bar	30.000 psi
SPC600-1-M9	Nipple without Check Valve x 9/16"-18 Type M	2.070 bar	30.000 psi
SPC600-1-M16	Nipple without Check Valve x 1"-12 Type M	2.070 bar	30.000 psi

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## MEDIUM & HIGH PRESSURE TUBING

- 316 Seamless Stainless Steel
- Up to 60,000 psi Working Pressure
- Outer Diameter Up to One Inch
- Custom Lengths Up to Twenty-Three Feet
- In-House Coning and Thread
- Extensive On-Hand Inventory

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## MATERIAL PROPERTIES

<b>COUNTRY OF ORIGIN</b>	Italy
<b>MATERIAL GRADES AVAILABLE</b>	A213/269 TP316/316L
<b>YIELD STRENGTH (RP 0.2)</b>	min. 600 N/mm <sup>2</sup>
<b>TENSILE STRENGTH</b>	min. 700 N/mm <sup>2</sup>
<b>ELONGATION</b>	min. 18%
<b>SURFACE QUALITY</b>	Standard surface quality is free from laps, flaws and fissures deeper than 0.1mm per cross section
<b>BORE SURFACE FINISH</b>	min. 100 RMS = 2.3 Ra µm = 92 AARH
<b>LENGTHS</b>	Standard lengths are between 20ft/6m and 23ft/7m. Other random lengths and defined cut lengths can be provided upon request.
<b>CERTIFICATES</b>	All standard testing performed is compiled in a mill test certificate 3.1 according to EN 10240. Additional test certificates such as Nace MR 01/75 or 3.2 according to EN 10204 are available upon request.
<b>STANDARD NONDESTRUCTIVE TESTING</b>	Eddy current ASTM A450/E426
<b>SPECIAL TESTING (UPON REQUEST)</b>	ASTM A262 intergranular attackFatigue strength by ID pressureBurst pressure test Dynamic load test under defined working conditionsMaterial

## MEDIUM PRESSURE TUBING

PART NUMBER	CONNECTION TYPE	MAWP	OUTSIDE DIAMETER		INSIDE DIAMETER		WALL THICKNESS	
			inch	mm	inch	mm	inch	mm
HMM4-TUBING-20K	1/4" Medium Pressure (HMM4)	20,000	0.2500	6.35	0.109	2.77	0.070	1.78
HMM6-TUBING-20K	3/8" Medium Pressure (HMM6)	20,000	0.3750	9.53	0.203	5.16	0.086	2.18
HMM9-TUBING-20K	9/16" Medium Pressure (HMM9)	20,000	0.5625	14.29	0.312	7.92	0.125	3.18
HMM12-TUBING-20K	3/4" Medium Pressure (HMM12)	20,000	0.7500	19.05	0.438	11.13	0.156	3.96
HMM16-TUBING-20K	1" Medium Pressure (HMM16)	20,000	1.0000	25.40	0.562	14.27	0.219	5.56

## HIGH-PRESSURE TUBING

PART NUMBER	CONNECTION TYPE	MAWP	OUTSIDE DIAMETER		INSIDE DIAMETER		WALL THICKNESS	
			inch	mm	inch	mm	inch	mm
HMM4-TUBING-60K	1/4" Medium Pressure (HMM4)	60,000	0.2500	6.35	0.083	2.11	0.083	2.11
HMM6-TUBING-60K	3/8" Medium Pressure (HMM6)	60,000	0.3750	9.53	0.125	3.18	0.125	3.18
HMM9-TUBING-60K	9/16" Medium Pressure (HMM9)	60,000	0.5625	14.29	0.188	4.78	0.187	4.75

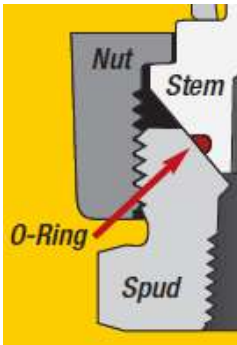
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## COUPLINGS AIR



## TOUGH FITTINGS FOR BIG AIR



Campbell Viton Seal Ground Joint Couplings Improve Safety and Save Energy

- Coupling combines metal-to-metal mating area with a Viton o-ring as a secondary seal, saving thousands of dollars in operating costs caused by leaky couplings.
- Viton o-ring allows coupling to be hand-tightened for no-leak operation!
- Campbell Viton-Seal Ground Joint Couplings are interchangeable with other ground joint-style couplings.

Never hammer ground joint couplings again!

### PRESSURE DERATING MULTIPLIERS FOR ELEVATED TEMPERATURES (°F)

70°	90°	150°	200°	250°	300°+
1.00	0.91	0.64	0.42	0.20	N/R

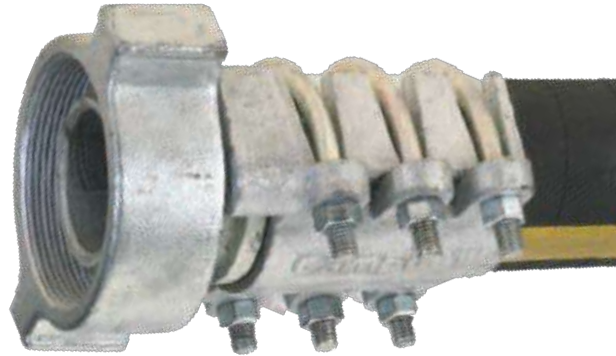
### VITON-SEAL GROUND JOINT PRESSURE RATINGS

Maximum System Working Pressure (PSI @ 70°F)

Attachment	1-12"	2"	2-1/2"	3"	4"
Ferrule	1000	1000	650	400	400
U-Bolt Clamp	1250	1250	800	500	500

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## TOUGH FITTINGS FOR BIG AIR

### Conventional vs. Campbell

#### Campbell Crimpnology™

Campbell Crimpnology ensures that all our couplings and ferrules are designed as an integrated system to provide repeatable, measurable performance.

There are no bolts to re-tighten, to snag equipment, or injure workers.

#### ROUNDED END DETAIL:

Protects hose tube from unnecessary wear caused by vibration or pulsations

#### MACHINED HOSE SERRATIONS:

Designed to grip, seal, and protect hose when crimped.

#### INTERLOCK GROOVE:

The turn-in of the ferrule interlocks with the machined groove on the fitting or coupling, providing a mechanical attachment for exceptional hose retention!

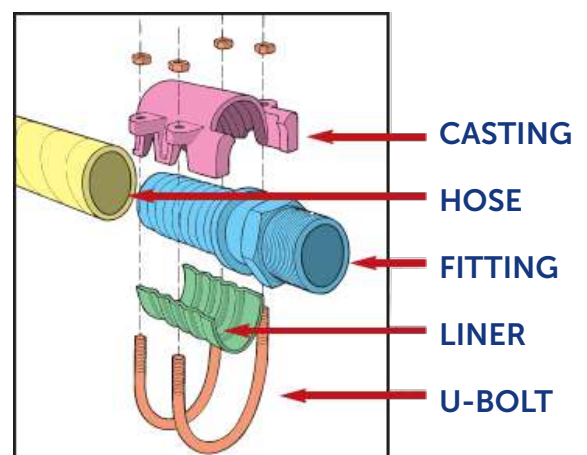
**If you need a clamp, Campbell U-bolt Clamps are superior to old "clam shell" style bolt clamps.**

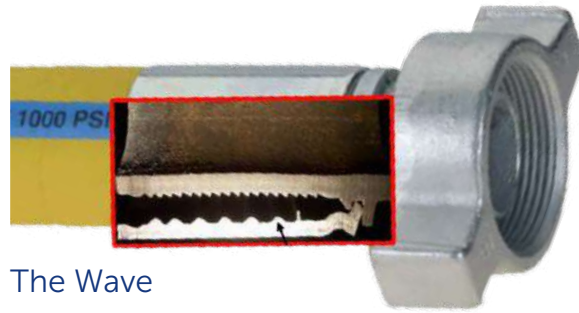
Perfect for field repair.

360° U-Bolt Clamps completely wrap around the hose and fitting, not squash from top and bottom.

"Safety fingers" designed on the clamp casting interlock with a "collar" on the coupling for safe, secure hose retention.

Bolts are all on one side for easier installation and retightening.





# HEAT WAVE CRIMPNOLOGY

## System for High Pressure Hot Air

### PROBLEM:

- Most hoses fail at the fitting/attachment when used at elevated temperatures.
- Air, at the compressor outlet, can reach excessively high temperatures.
- Excessive heat severely affects the hose, creating a serious safety problem...

### SOLUTION:

Heat Wave Ground Joint Coupling System

- One piece coupling/ferrule design.
- Ferrule machined I.D. utilizes a wave pattern.
- Wave pattern gently displaces the hose evenly while pressing tube into machined hose end of the coupling.
- Wave protects the hose cover from damage caused by serrated ferrules.



### IN THE FIELD:

- Install one length of Heat Wave Hose System at the compressor outlet to dissipate heat. Then attach standard crimped air hoses from the heat Wave System to the tools. Shown above...

### TESTING & CRIMPING:

- Our tests prove that hoses can fail prematurely at elevated temperatures, especially at higher pressure. For hose recommendations and crimp specs, contact customer service.
- Campbell leads the industry in testing, and documenting elevated temperature tests for industrial hose.
- Go to [campbellfittings.com](http://campbellfittings.com) or more information about testing and to view out temperature de-rating chart.

### SIZES & PART NUMBERS:

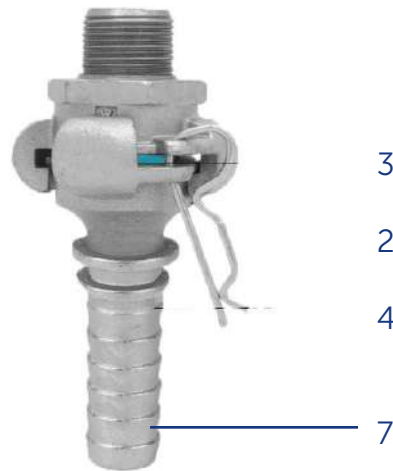
Viton Seal Ground Joint Coupling (set):

- 2" GJF-8 HW
- 3" GJF-12 HW

Male Stem:

- 2" IMS-8 HW
- 3" IMS-12 HW





## TYPE A EUROPEAN AIR CRIMP COUPLINGS

### STANDARD

The safety version of EA European air couplings is similar to the European DIN 3489 standard for air couplings, but with the addition of a safety locking pin for extra security and easy crimp swaging features.

### OPERATION

Similar to air couplings complying with the European DIN 3489 standard, the claw distance of European air safety couplings is standard 42mm. Next to the claws of the safety European air coupling, a hole is provided. Both couplings are pushed together and rotated until the holes of both couplings are placed in opposite of each other. A safety pin is inserted in the holes and the connection is extra secured.

### FEATURES

1. Claw distance: 42mm
2. Safety locking pin for additional security
3. EA couplings include a specially designed profiled BLUE NBR seal, the lateral and angular shape of which offers excellent compression properties. Pressure is applied as soon as the coupling is connected, which prevents the connection from becoming loose as a result of vibration.

4. The serrated hose shank ensures perfect rigidity
5. White plate galvanized
6. Extra long tail with special shape for more power (20 bar)
7. Easy fit into all kinds of hoses (PVC, rubber...) without hammering

### APPLICATION

For air and water applications N.B.: European air safety couplings should never be used for steam applications

### TEMPERATURE

-30°C / -22°F up to 120°C / 248°F Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature range.

### WORKING PRESSURE

20 bar / 290 psi

### ASSEMBLY

Easy crimp ferrule, Worm drive clamps, Air safety clamps



## TYPE A EUROPEAN AIR CRIMP COUPLINGS

### EA Crimp Coupling With Serrated Hose Shank

CLAW DISTANCE	42mm
WORKING PRESSURE	20 bar / 290 psi
PROFILED SEAL DIN 3489-D	NBR BLUE
ASSEMBLY	worm drive clamps, air safety clamps and easy crimp ferrule

ND	INCH	FOR HOSE (mm)	MATERIAL	WEIGHT/PC (kg)	REFERENCE
13	1/2"	13	Galvanised steel	0.19	EASS013C
19	3/4"	19	Galvanised steel	0.22	EASS019C
25	1"	25	Galvanised steel	0.24	EASS025C



## TYPE A EUROPEAN AIR CRIMP COUPLINGS

### Safety Clip

MATERIAL	WEIGHT/PC (kg)	REFERENCE
Stainless steel AISI 304	0.018	VLBVR2
Galvanised steel	0.018	VLBVS2





## TYPE A EUROPEAN AIR CRIMP COUPLINGS

### EA Crimp Ferrule

ND	INCH	FOR HOSE (mm)	MATERIAL	REFERENCE
13	1/2"	3,5 - 4,7 mm	Steel S235j2H	LHEASS013C
19	3/4"	4,5 - 6 mm	Steel S235j2H	LHEASS019C
25	1"	6 - 7,5 mm	Steel S235j2H	LHEASS025C



## TYPE A EUROPEAN AIR CRIMP COUPLINGS

### Profiled Seal DIN 3489-D

MATERIAL	COLOUR	OD(mm) +0,1 / -0,2	ID (mm)	HEIGHT +0,2 / -0,1	BOX PIECES	WEIGHT /PC (kg)	REFERENCE
NBR	BLUE	34,0	20,0	11,0	50	0.006	EAXB





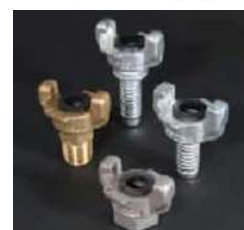
## TYPE B SAFETY COUPLINGS (American Style)

### INVESTMENT CAST UNIVERSAL HOSE ENDS

Short, Crimp-Specific Shank (left) and Standard Shank (right)

### SAFETY AND SAVINGS

Universallock, Single-lock and Doublelock couplings meet OSHA regulation 29CFR1915.131 and MSHA 30 CFR65.13021 requirements for air hose couplings. The fine for an unpinned/unlocked air hose coupling can be \$800 or more per infraction. Save your customer money and headaches. Use Campbell safety air hose couplings.



### MAXIMUM SYSTEM WORKING PRESSURE (PSI 70°F)

Hose System Component			Hose Size		
FITTING/COUPLING	ATTACHMENT	HOSE TYPE	1/2	3/4	1
Universallock	Bolt Clamp	Air	300	300	300
Universallock C	lamp	Air	150	150	150
Universal	Ferrule	Air	150	150	150
Universal	Bolt Clamp	Air	150	150	150
Single-Lock Coupling	Ferrule	Air	300	300	300
Double-Lock Coupling	Ferrule	Air	300	300	300



## TYPE B SAFETY COUPLINGS (American Style)

MACHINED HOSE TAILS FOR CRIMPING (REFER FERRULE CHART)

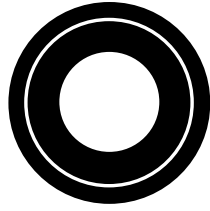
NPT SIZE	DUCTILE IRON (MACHINE SERRATIONS)	316 STAINLESS (MACHINE SERRATIONS)	PLATED STEEL (INVESTMENT CAST)
3/8	OGUH-38		
1/2	OGUH-2	OGUHSS-2	OGUH-2i
5/8	OGUH-58		
3/4	OGUH-3	OGUHSS-3	OGUH-3i
1	OGUH-4	OGUHSS-4	OGUH-4i



## TYPE B SAFETY COUPLINGS (American Style)

MALE NPT

NPT SIZE	DUCTILE IRON	316 STAINLESS
3/8	OGUM-38	
1/2	OGUM-2	OGUMSS-2
3/4	OGUM-3	OGUMSS-3
1	OGUM-4	OGUMSS-4



## TYPE B SAFETY COUPLINGS (American Style)

### UNIVERSAL WASHER

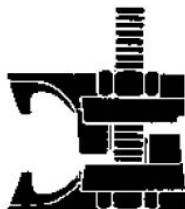
NPT SIZE	DUCTILE IRON
All	OGUG
Never use Universal Washers in UniversaLock Couplings	



## TYPE B SAFETY COUPLINGS (American Style)

### THREE WAY

NPT SIZE	DUCTILE IRON
All	OGUTW



## TYPE B SAFETY COUPLINGS (American Style)

TWO-BOLT UNIVERSAL CLAMP

HOSE O.D. (MIN TO MAX)	DUCTILE IRON
3/4 to 15/16	OGUC-2
1 to 1-1/4	OGUC-3
1-1/4 to 1-17/32	OGUC-4



## TYPE B SAFETY COUPLINGS (American Style)

BLANK END

NPT SIZE	DUCTILE IRON
All	OGUB

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## TYPE B SAFETY COUPLINGS (American Style)

SAFETY CLIP

NPT SIZE	DUCTILE IRON
All	OGSC



## TYPE B SAFETY COUPLINGS (American style) with Locking Heads

MACHINED HOSE TAILS FOR CRIMPING (REFER FERRULE CHART)

NPT SIZE	DUCTILE IRON MACHINE SERRATIONS
1/2	OGULH-2
3/4	OGULH-3
1	OGULH-4





## TYPE B SAFETY COUPLINGS (American style) with Locking Heads

MALE END

NPT SIZE	DUCTILE IRON
1/2	OGULM-2
3/4	OGULM-3
1	OGULM-4



## TYPE B SAFETY COUPLINGS (American style) with Locking Heads

UNIVERSALOC WASHER

NPT SIZE	DUCTILE IRON
All	OGULW
Never use Universalock Washers in standard Universal Couplings	

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## TYPE B SAFETY COUPLINGS (American style) with Locking Heads

### FEMALE END

NPT SIZE	DUCTILE IRON
1/2	OGULF-2
3/4	OGULF-3

### UNIVERSAL COUPLINGS AND UNIVERSALOC™ COUPLINGS

#### Features & Benefits

- Mates with domestic and imported universal couplings.
- UniversaLocks automatically lock onto mating coupling.
- Crimpnology hose end for superior retention and sealing.
- Cast ductile iron meets ASTM A536 specification.
- Washers manufactured from nitrile for superior oil resistance.

### INVESTMENT CAST UNIVERSAL HOSE ENDS

- Investment casting provides a crisp high quality, hose-end surface-finish without costly machining.
- Crimpnology hose ends for superior retention and sealing.

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## AIR/WATER/NITROGEN COUPLINGS Single-Lock (Bowes/Dixlock-Style)

### FEATURES & BENEFITS;

- High strength zinc-aluminum alloy sleeves never rust, never seize or gall.
- Crimpnology hose ends provide the ultimate in hose retention.
- New 1" sizes added
- Interchangeable with other Bowes and Dixlock style couplings.



## AIR/WATER/NITROGEN COUPLINGS Double-Lock (Thor-Style)

### FEATURES & BENEFITS







- High strength zinc-aluminum alloy sleeves never rust, never seize or gall.
- Crimpnology hose ends provide the ultimate in hose retention.
- New 1" sizes added
- Interchangeable with other Bowes and Thor style couplings.

### NITROGEN KILLS!







Introducing Nitrogen-only Single-lock and Double-lock Couplings. Specify the yellow ring! Simply the best and safest way to avoid deadly nitrogen accidents in plant.

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## AIR/WATER/NITROGEN COUPLINGS

MATERIAL	SIZE	MALE HOSETAIL	MALE HOSETAIL (LOCKING RING)	MALE HOSETAIL (NITROGEN RING)	MALE X MALE NPT	MALE X MALE NPT (LOCKING RING)	MALE X MALE NPT (NITROGEN RING)
Single Lock							
							
Plated Steel	3/8"		BMHS-38L	BMHS-38N		BMMS-38L	BMMS-38N
Plated Steel	1/2"	BMHS-2	BMHS-2L	BMHS-2N	BMMS-2	BMMS-2L	BMMS-2N
Plated Steel	3/4"	BMHS-3	BMHS-3L	BMHS-3N	BMMS-3	BMMS-3L	BMMS-3N
Plated Steel	1"		BMHS-4L	BMHS-4N		BMMS-4L	BMMS-4N
Brass	3/8"						
Brass	1/2"	BMHB-2	BMHB-2L	BMHB-2N	BMMB-2	BMMB-2L	BMMB-2N
Brass	3/4"	BMHB-3	BMHB-3L	BMHB-3N	BMMB-3	BMMB-3L	BMMB-3N
Brass	1"		BMHB-4L	BMHB-4N		BMMB-4L	BMMB-4N

## AIR/WATER/NITROGEN COUPLINGS

MATERIAL	SIZE	MALE X FEMALE NPT	MALE X FEMALE NPT (LOCKING RING)	MALE X FEMALE NPT (NITROGEN RING)	FEMALE HOSETAIL	FEMALE X MALE NPT	FEMALE X FEMALE NPT
Single Lock							
							
Plated Steel	3/8"	BMFS-2	BMFS-38L	BMFS-38N		BFMS-38	BFFS-38
Plated Steel	1/2"	BMFS-2	BMFS-2L	BMFS-2N	BFHS-2	BFMS-2	BFFS-2
Plated Steel	3/4"	BMFS-3	BMFS-3L	BMFS-3N	BFHS-3	BFMS-3	BFFS-3
Plated Steel	1"		BMFS-4L	BMFS-4N		BFMS-4	BFFS-4
Brass	3/8"					BFMB-38	BFFB-38
Brass	1/2"	BMFB-2	BMFB-2L	BMFB-2N	BFHB-2	BFMB-2	BFFB-2
Brass	3/4"	BMFB-3	BMFB-3L	BMFB-3N	BFHB-3	BFMB-3	BFFB-3
Brass	1"		BMFB-4L	BMFB-4N		BFMB-4	BFFB-4

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## AIR HOSE COUPLING

### SINGLE-LOCK AND DOUBLE-LOCK COUPLINGS (BOWES AND THOR-STYLE INTERCHANGE)

#### Unique safety features:

- Campbell locking sleeves are manufactured from a high-strength zinc/aluminum alloy to solve seizing and galling problems caused by rusty steel sleeves (comparison at right).
- Crimpnology hose ends for the ultimate in safe hose retention (See pressure ratings below).
- Available with first-ever "Nitrogen Only" Warning Rings for safe hose differentiation. Nitrogen kills! Always specify the yellow warning ring for Nitrogen ... on both the hose coupling and manifold coupling (below).



Steel locking sleeves rust and seize (above). Campbell's ZA sleeves don't!



Use Campbell fittings with Nitrogen-Only Warning Rings on the hose and manifold to avoid deadly cross connections

- Couplings are available with male npt, female npt, and hose end.
- Single-Lock couplings available with plated steel or brass bodies
- Double-Lock couplings available with plated steel or stainless steel bodies

### UNIVERSAL COUPLINGS & UNIVERSALOCK™ COUPLINGS

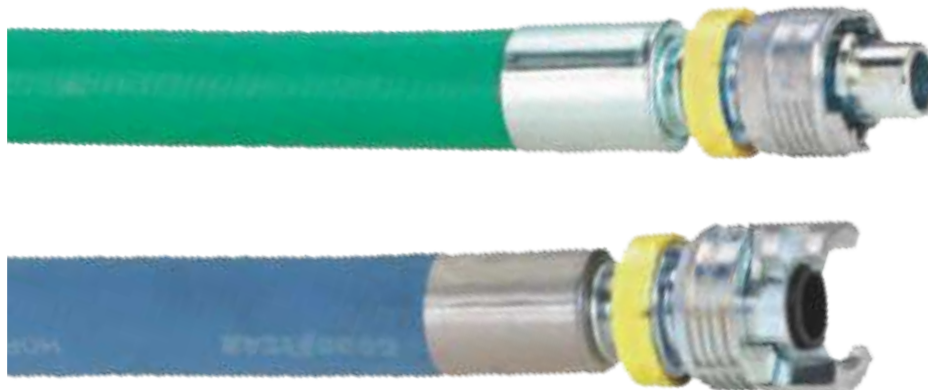
#### Unique safety features:

- Crimpnology hose ends for the ultimate in safe hose retention. (See pressure ratings below.)
- UniversaLock couplings automatically lock onto any universal-style coupling (right).
- Manufactured from ASTM A536 ductile iron for strength and durability



UniversaLock on jackhammer whip hose





## AIR HOSE COUPLING

### SAFETY AND SAVINGS!

UniversaLock, Single-lock, and Double-Lock couplings meet OSHA regulation 29CFR1915.131 and MSHA 30 CFR65.13021 requirements for air hose couplings. The fine for an unpinned/unlocked air hose coupling can be \$800 or more per infraction. Save your customer money and headaches. Use Campbell safety air hose couplings.

### NITROGEN KILLS!

Specify the yellow ring! Simply the best and safest way to avoid deadly nitrogen accidents in plant.

### MAXIMUM SYSTEM WORKING PRESSURE (PSI @ 70°F)

HOSE SYSTEM COMPONENTS			HOSE SIZE		
FITTING/COUPLING	ATTACHMENT	HOSE TYPE	1/2	3/4	1
UniversaLock	Ferrule	Air	300	300	300
UniversaLock	Bolt Clamp	Air	150	150	150
Universal	Ferrule	Air	150	150	150
Universal	Bolt Clamp	Air	150	150	150
Single-Lock Coupling	Ferrule	Air	300	300	300
Double-Lock Coupling	Ferrule	Air	300	300	300

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## COUPLINGS DRY AND BREAKAWAY



### DRY DISCONNECT COUPLERS (Hose Unit)

#### APPLICATIONS:

This Spill Prevention Coupling is recommended for all types of bulk liquid product transfer, where product spillage and environmental contamination needs to be minimised.

#### FEATURES:

- Fully compatible with STANAG 3756 & Team Specification couplings
- High flow rates
- Integral swivel reduces hose torsional forces during the coupling of units
- Sleek and elegant design, with etched makers mark, to reduce potential debris traps in high cleanliness areas
- Stainless Steel internals on all Hose units.
- Dust plugs and caps available

#### CONNECTIONS:

Available with BSP, NPT thread forms and flange adaptors

#### SELECTIVITY:

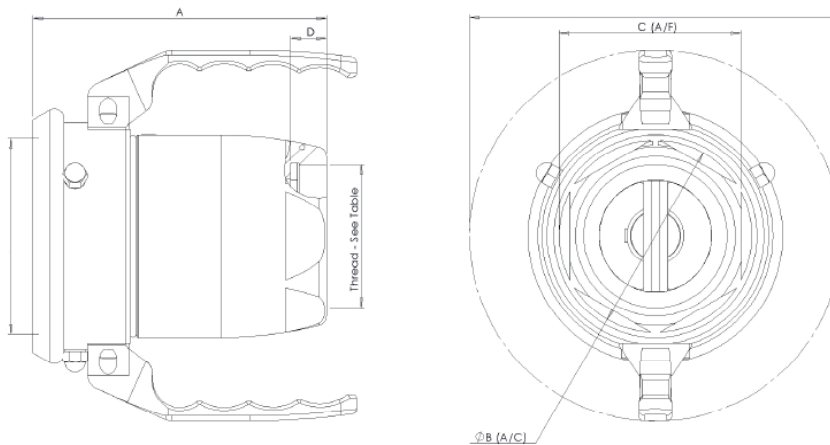
Selectivity is available as an option, to avoid cross contamination on connecting the wrong couplings together.

Each unit has a number of selective positions, designated by a coded part number.

#### MATERIALS:

Available in Aluminium Alloy and 316L Stainless Steel, with Viton Seals fitted as standard. Other seals types available on request.

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PRODUCT CODE	MAT	HEAD SIZE (mm)	ENDS (mm)	END TYPE	WP (bar)	TP (bar)	BP (bar)	WT (kg)	A (mm)	B (mm)	C (mm)	D (mm)	FLOW RATES (lpm)
<b>ALUMINIUM</b>													
CH070ADZ01	Alum	70	38	BSP	25	37.5	125	1.7	145	73	70	20	650
CH070ADY01	Alum	70	38	NPT	25	37.5	125	1.8	150	73	70	25	650
CH070AEZ01	Alum	70	51	BSP	25	37.5	125	1.6	145	73	70	20	650
CH070AEY01	Alum	70	51	NPT	25	37.5	125	1.8	150	73	70	25	650
CH105AFZ01	Alum	105	64	BSP	25	37.5	125	4.1	180	109	98	22	1500
CH105AFY01	Alum	105	64	NPT	25	37.5	125	4.2	184	109	98	26	1500
CH119AGZ01	Alum	119	76	BSP	25	37.5	125	4.2	181	113	105	22	2000
CH119AGY01	Alum	119	76	NPT	25	37.5	125	4.3	185	113	105	26	2000
CH164AJZ01	Alum	164	102	BSP	30	45.0	150	6.2	210	139	128	25	3500
CH164AJY01	Alum	164	102	NPT	30	45.0	150	6.5	223	139	128	38	3500
<b>STAINLESS STEEL 316</b>													
CH070SDZ01	SS316	70	38	BSP	25	37.5	125	3.5	145	73	70	20	650
CH070SDY01	SS316	70	38	NPT	25	37.5	125	3.6	150	73	70	25	650
CH070SEZ01	SS316	70	51	BSP	25	37.5	125	3.3	145	73	70	20	650
CH070SEY01	SS316	70	51	NPT	25	37.5	125	3.5	150	73	70	25	650
CH105SFZ01	SS316	105	64	BSP	25	37.5	125	8.0	180	109	98	22	1500
CH105SFY01	SS316	105	64	NPT	25	37.5	125	8.1	184	109	98	26	1500
CH119SGZ01	SS316	119	76	BSP	25	37.5	125	8.2	181	113	105	22	2000
CH119SGY01	SS316	119	76	NPT	25	37.5	125	8.3	185	113	105	26	2000
CH164SJZ01	SS316	164	102	BSP	30	45.0	150		210	139	128	25	3500
CH164SJY01	SS316	164	102	NPT	30	45.0	150	15.1	223	139	128	38	3500

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## DRY DISCONNECT ADAPTOR (Tank Unit)

### APPLICATIONS:

This Spill Prevention Coupling is recommended for all types of bulk liquid product transfer, where product spillage and environmental contamination needs to be minimised.

### FEATURES:

- Fully compatible with STANAG 3756 & Team Specification couplings
- High flow rates
- Integral swivel reduces hose torsional forces during the coupling of units
- Sleek and elegant design, with etched makers mark, to reduce potential debris traps in high cleanliness areas.
- Stainless steel internals on all hose units
- Dust plugs and caps available

### CONNECTIONS:

Available with BSP & NPT thread forms and flange adaptors

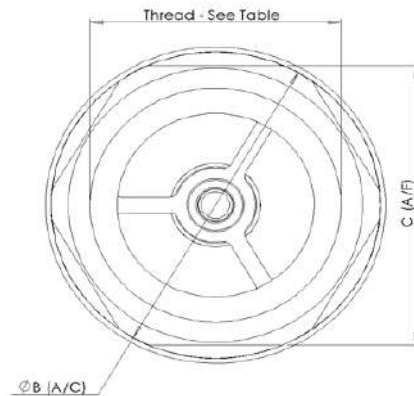
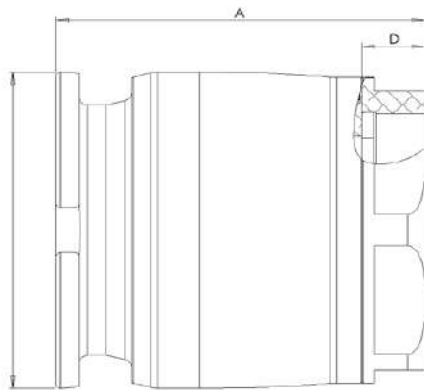
### SELECTIVITY:

Selectivity is available as an option, to avoid cross contamination on connecting the wrong couplings together. Each unit has a number of selective positions, designed by coded part numbers.

### MATERIALS:

Available in aluminum alloy and 316L stainless steel, with FKM seals fitted as standard. Other seal types available on request.

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PRODUCT CODE	MAT	HEAD SIZE (mm)	ENDS (mm)	END TYPE	WP (bar)	TP (bar)	BP (bar)	WT (kg)	A (mm)	B (mm)	C (mm)	D (mm)	FLOW RATES (lpm)
<b>ALUMINIUM</b>													
CH070ADZ01D	Alum	70	38	BSP	25	37.5	125	0.5	96	75	70	20	650
CH070ADY01D	Alum	70	38	NPT	25	37.5	125	0.5	96	75	70	22	650
CT070AEY01	Alum	70	51	BSP	25	37.5	125	0.4	96	75	70	20	650
CT070AEY01	Alum	70	51	NPT	25	37.5	125	0.4	96	75	70	22	650
CT105AFZ01	Alum	105	64	BSP	25	37.5	125	1.5	129	115	105	26	1500
CT105AFY01	Alum	105	64	NPT	25	37.5	125	1.6	136	115	105	26	1500
CT119AGZ01	Alum	119	76	BSP	25	37.5	125	1.8	129	115	105	22	2000
CT119AGY01	Alum	119	76	NPT	25	37.5	125	1.9	136	115	105	26	2000
CT164AJZ01	Alum	164	102	BSP	30	45.0	150	3.7	146	155	145	25	3500
CT164AJY01	Alum	164	102	NPT	30	45.0	150	4.2	159	155	145	38	3500
<b>STAINLESS STEEL 316</b>													
CT070SDZ01	SS316	70	38	BSP	25	37.5	125	1.4	96	75	70	20	650
CT070SDY01	SS316	70	38	NPT	25	37.5	125	1.4	96	75	70	22	650
CT070SEZ01	SS316	70	51	BSP	25	37.5	125	1.2	96	75	70	20	650
CT070SEY01	SS316	70	51	NPT	25	37.5	125	1.4	96	75	70	22	650
CT105SFZ01	SS316	105	64	BSP	25	37.5	125	4.0	129	115	105	26	1500
CT105SFY01	SS316	105	64	NPT	25	37.5	125	4.2	136	115	105	26	1500
CT119SGZ01	SS316	119	76	BSP	25	37.5	125	4.1	129	115	105	22	2000
CT119SGY01	SS316	119	76	NPT	25	37.5	125	4.4	136	115	105	26	2000
CT164SJZ01	SS316	164	102	BSP	30	45.0	150	8.9	146	155	145	25	3500
CT164SJY01	SS316	164	102	NPT	30	45.0	150	9.2	159	155	145	38	3500





## BREAKAWAY (WEAKLINK) COUPLINGS

Breakaway couplings are safety components used to prevent one of the most serious safety hazards in the process of loading fluid media: the unwanted and disproportionate tensile load on the load line, caused, for example, when supply vessels drift or move off too soon. Such tensile loads can mechanically damage or even destroy both the connection points and the load line itself, which could even lead to uncontrolled leaks of the media being loaded, posing a corresponding hazard to humans and the environment

PRODUCT CODE	DESCRIPTION
SBC052NPTFSS	52nb Breakaway NPTF Marine Grd 316s/s
SBC076NPTFSS	76nb Breakaway NPTF Marine Grd 316s/s
SBC102NPTFSS	102nb Breakaway NPTF Marine Grd 316s/s

### MARINE STYLE

This has been specially developed for marine and offshore applications as well as for use between two hose lines. The innovative design is characterised by its high resistance to lateral forces that can affect the coupling, causing it to release unintentionally. This is achieved by means of a cylindrical overlap, or tapered overlap, between the two coupling halves. In scenarios where the breakaway coupling is fitted between two hose lines, the ABVM series offers a high degree of resistance to lateral forces such as those that can affect floating hoses in a heavy swell or when hose lines are being coiled. The marine series breakaway couplings only separate when subjected to an axial load. After the separation, the valves close and prevent the medium from escaping from the hose and tube side, and in this way protect both humans and the environment. Costly accidents are thus voided. Separation occurs in a controlled fashion by means of the breaking pins integrated into the breakaway coupling.

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## BREAKAWAY (WEAKLINK) COUPLINGS

PRODUCT CODE	DESCRIPTION
SBC052FONPTFSS	52nb Breakaway NPTF Flow optimised Marine 316s/s
SBC076FONPTFSS	76nb Breakaway NPTF Flow optimised Marine 316s/s
SBC102FONPTFSS	102nb Breakaway NPTF Flow optimised Marine 316s/s

### MARINE STYLE-OPTIMISED FLOW

This variant of the flow-optimised breakaway coupling offers exceptional resistance to lateral forces and was specially developed for use in marine and offshore applications. As with the ABVL series breakaway coupling, this coupling is particularly suitable for situations that require high flow rates and low pressure losses. This variant is similar to the standard ABVM marine breakaway coupling in that it is designed to offer high resistance to lateral forces. A cylindrical overlap between the two coupling halves is also used here as a structural element to achieve the desired degree of lateral-force stability. However, the focus of the ABML series breakaway couplings is on delivering the high flow rate of the ABVL series. Compared to the standard marine breakaway coupling, this cuts loading times by up to 75 per cent, thus delivering real financial returns from its first use on. Due to the low pressure losses in this flow-optimised variant, the ABML series breakaway coupling is also particularly suitable for retrofitting to existing loading facilities – without any significant increase in loading times.

Technical specifications, including dimensions, flow characteristics and breaking points are available on demand.

**Note: Many other types, sizes and materials are available on demand**

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## COUPLINGS FLUID

### CAM & GROOVE COUPLINGS (For Liquid, Bulk and Chemical Transfer)

#### "CAMPBELL COBRA" VS. "STANDARD COBRA"

"COBRA" is the trade name for our entire line of cam & groove couplings. "Campbell COBRA" is the upgraded versions of Parts C and E. Although imported, Campbell COBRA C's and E's are designed by Campbell and produced to strict Campbell specifications.

#### FEATURES & BENEFITS

- Designed for use with Campbell Interlocking Ferrules.
- 360° interlock groove on fitting, locks ferrule into place for the ultimate in holding power.
- Shank and ferrule lengths are matched for performance and to avoid potential hose tube or hose cover damage (left).
- Serrations designed to grip, seal and protect hose when crimped. Note: Traditional "two bump" designs are for branding, not crimping. Campbell does not recommend crimping on "two bump" shanks.
- Crimped assemblies are low profile and eliminate sharp edges from clamp buckles.
- Couplings use the same ferrules as other Campbell Crimpnology

products.

- Designed to couple and interchange with couplings made to ASTM F1122, CID A-A-59326, MIL-C-27487.

#### SPECIAL FEATURE

- Locking handles (right) can be purchased, assembled onto the coupling or as a kit and retrofitted onto existing inventory... another easy and cost-effective way to keep inventory flexible.

#### RECOMMENDED HOSE ATTACHMENT

- Interlocking ferrules

#### RECOMMENDED USE

- Multi-purpose liquid, chemical, bulk handling.



Locking Handle



Campbell Cobra  
Part C and matching  
Campbell Interlocking  
Ferrule



#### MAX. SYSTEM WORKING PRESSURE (PSI 70F)

Hose System Components							Hose Size							
FITTING/COUPLING	ATTACHMENT	HOSE TYPE	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	6	8	
Campbell COBRA Cam & Groove (SS)	Ferrule	Chem/Rubber	-	-	250	-	250	250	150	150	100	-	-	
Campbell COBRA Cam & Groove (Alum)	Ferrule	Chem/Rubber	-	-	-	-	225	200	150	125	75	-	-	



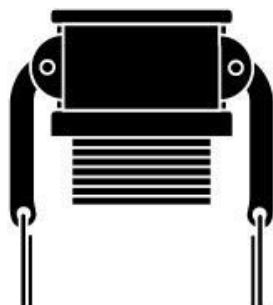
## PART A

### Male Camlock to Female NPT Thread

SIZE	ALUMINIUM	BRASS	GRADE 304 S/S	GRADE 316 S/S	DUCTILE IRON	POLY GLASS
1/2" (12nb)	A-AL-50	A-BR-50	A-SS-50	A-316-50	-	A-PP-50
3/4" (19nb)	A-AL-75	A-BR-75	A-SS-75	A-316-75	-	A-PP-75
1" (25nb)	A-AL-100	A-BR-100	A-SS-100	A-316-100	-	A-PP-100
1-1/4" (32nb)	A-AL-125	A-BR-125	A-SS-125	A-316-125	-	A-PP-125
1-1/2" (38nb)	A-AL-150	A-BR-150	A-SS-150	A-316-150	A-DI-150	A-PP-150
2" (51nb)	A-AL-200	A-BR-200	A-SS-200	A-316-200	A-DI-200	A-PP-200
2-1/2" (64nb)	A-AL-250	A-BR-250	A-SS-250	A-316-250	A-DI-250	A-PP-250
3" (76nb)	A-AL-300	A-BR-300	A-SS-300	A-316-300	A-DI-300	A-PP-300
4" (102nb)	A-AL-400	A-BR-400	A-SS-400	A-316-400	A-DI-400	A-PP-400
5" (127nb)	A-AL-500	A-BR-500	A-SS-500	A-316-500	A-DI-500	-
6" (152nb)	A-AL-600	A-BR-600	A-SS-600	A-316-600	-	-
8" (203nb)	A-AL-800	A-BR-800	-	-	-	-

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## PART B

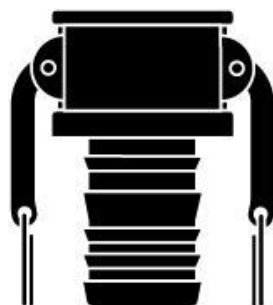
### Female Camlock to Male NPT Thread

SIZE	ALUMINIUM	BRASS	GRADE 304 S/S	GRADE 316 S/S	DUCTILE IRON	POLY GLASS
1/2" (12nb)	B-AL-50	B-BR-50	B-SS-50	B-316-50	-	B-PP-50
3/4" (19nb)	B-AL-75	B-BR-75	B-SS-75	B-316-75	-	B-PP-75
1" (25nb)	B-AL-100	B-BR-100	B-SS-100	B-316-100	-	B-PP-100
1-1/4" (32nb)	B-AL-125	B-BR-125	B-SS-125	B-316-125	-	B-PP-125
1-1/2" (38nb)	B-AL-150	B-BR-150	B-SS-150	B-316-150	B-DI-150	B-PP-150
2" (51nb)	B-AL-200	B-BR-200	B-SS-200	B-316-200	B-DI-200	B-PP-200
2-1/2" (64nb)	B-AL-250	B-BR-250	B-SS-250	B-316-250	B-DI-250	B-PP-250
3" (76nb)	B-AL-300	B-BR-300	B-SS-300	B-316-300	B-DI-300	B-PP-300
4" (102nb)	B-AL-400	B-BR-400	B-SS-400	B-316-400	B-DI-400	B-PP-400
5" (127nb)	B-AL-500	B-BR-500	B-SS-500	B-316-500	B-DI-500	-
6" (152nb)	B-AL-600	B-BR-600	B-SS-600	B-316-600	-	-
8" (203nb)	B-AL-800	B-BR-800	-	-	-	-

Note: Locking levers can be supplied and fitted to these camlocks. Spare gaskets and levers and pull rings are available.

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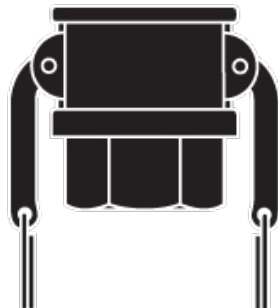


## PART CL

### Locking Female Camlock to Crimp Hose Tail

SIZE	ALUMINIUM	BRASS	GRADE 304 S/S	GRADE 316 S/S	DUCTILE IRON	POLY GLASS
1/2" (12nb)	CL-AL-50C	CL-BR-50C	CL-SS-50C	CL-316-50C	-	CL-PP-50C
3/4" (19nb)	CL-AL-75C	CL-BR-75C	CL-SS-75C	CL-316-75C	-	CL-PP-75C
1" (25nb)	CL-AL-100C	CL-BR-100C	CL-SS-100C	CL-316-100C	-	CL-PP-100C
1-1/4" (32nb)	CL-AL-125C	CL-BR-125C	CL-SS-125C	CL-316-125C	-	CL-PP-125C
1-1/2" (38nb)	CL-AL-150C	CL-BR-150C	CL-SS-150C	CL-316-150C	CL-DI-150C	CL-PP-150C
2" (51nb)	CL-AL-200C	CL-BR-200C	CL-SS-200C	CL-316-200C	CL-DI-200C	CL-PP-200C
2-1/2" (64nb)	CL-AL-250C	CL-BR-250C	CL-SS-250C	CL-316-250C	CL-DI-250C	CL-PP-250C
3" (76nb)	CL-AL-300C	CL-BR-300C	CL-SS-300C	CL-316-300C	CL-DI-300C	CL-PP-300C
4" (102nb)	CL-AL-400C	CL-BR-400C	CL-SS-400C	CL-316-400C	CL-DI-400C	CL-PP-400C
5" (127nb)	CL-AL-500C	CL-BR-500C	CL-SS-500C	CL-316-500C	CL-DI-500C	-
6" (152nb)	CL-AL-600C	CL-BR-600C	CL-SS-600C	CL-316-600C	-	-
8" (203nb)	CL-AL-800C	CL-BR-800C	-	-	-	-

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## PART D

### Female Camlock to Female NPT Thread

SIZE	ALUMINIUM	BRASS	GRADE 304 S/S	GRADE 316 S/S	DUCTILE IRON	POLY GLASS
1/2" (12nb)	D-AL-50	D-BR-50	D-SS-50	D-316-50	-	D-PP-50
3/4" (19nb)	D-AL-75	D-BR-75	D-SS-75	D-316-75	-	D-PP-75
1" (25nb)	D-AL-100	D-BR-100	D-SS-100	D-316-100	-	D-PP-100
1-1/4" (32nb)	D-AL-125	D-BR-125	D-SS-125	D-316-125	-	D-PP-125
1-1/2" (38nb)	D-AL-150	D-BR-150	D-SS-150	D-316-150	D-DI-150	D-PP-150
2" (51nb)	D-AL-200	D-BR-200	D-SS-200	D-316-200	D-DI-200	D-PP-200
2-1/2" (64nb)	D-AL-250	D-BR-250	D-SS-250	D-316-250	D-DI-250	D-PP-250
3" (76nb)	D-AL-300	D-BR-300	D-SS-300	D-316-300	D-DI-300	D-PP-300
4" (102nb)	D-AL-400	D-BR-400	D-SS-400	D-316-400	D-DI-400	D-PP-400
5" (127nb)	D-AL-500	D-BR-500	D-SS-500	D-316-500	D-DI-500	-
6" (152nb)	D-AL-600	D-BR-600	D-SS-600	D-316-600	-	-
8" (203nb)	D-AL-800	D-BR-800	-	-	-	-

Note: Locking levers can be supplied and fitted to these camlocks. Spare gaskets and levers and pull rings are available.

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## PART E

### Male Camlock to Crimp Hose Tail

SIZE	ALUMINIUM	BRASS	GRADE 304 S/S	GRADE 316 S/S	DUCTILE IRON	POLY GLASS
1/2" (12nb)	E-AL-50C	E-BR-50C	E-SS-50C	E-316-50C	-	E-PP-50C
3/4" (19nb)	E-AL-75C	E-BR-75C	E-SS-75C	E-316-75C	-	E-PP-75C
1" (25nb)	E-AL-100C	E-BR-100C	E-SS-100C	E-316-100C	-	E-PP-100C
1-1/4" (32nb)	E-AL-125C	E-BR-125C	E-SS-125C	E-316-125C	-	E-PP-125C
1-1/2" (38nb)	E-AL-150C	E-BR-150C	E-SS-150C	E-316-150C	E-DI-150C	E-PP-150C
2" (51nb)	E-AL-200C	E-BR-200C	E-SS-200C	E-316-200C	E-DI-200C	E-PP-200C
2-1/2" (64nb)	E-AL-250C	E-BR-250C	E-SS-250C	E-316-250C	E-DI-250C	E-PP-250C
3" (76nb)	E-AL-300C	E-BR-300C	E-SS-300C	E-316-300C	E-DI-300C	E-PP-300C
4" (102nb)	E-AL-400C	E-BR-400C	E-SS-400C	E-316-400C	E-DI-400C	E-PP-400C
5" (127nb)	E-AL-500C	E-BR-500C	E-SS-500C	E-316-500C	E-DI-500C	-
6" (152nb)	E-AL-600C	E-BR-600C	E-SS-600C	E-316-600C	-	-
8" (203nb)	E-AL-800C	E-BR-800C	-	-	-	-



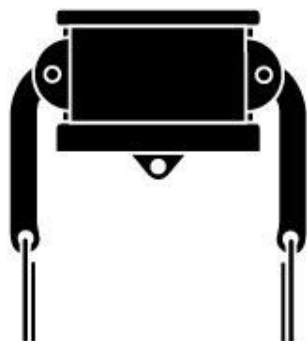
## PART F

### Male Camlock to Male NPT Thread

SIZE	ALUMINIUM	BRASS	GRADE 304 S/S	GRADE 316 S/S	DUCTILE IRON	POLY GLASS
1/2" (12nb)	F-AL-50	F-BR-50	F-SS-50	F-316-50	-	F-PP-50
3/4" (19nb)	F-AL-75	F-BR-75	F-SS-75	F-316-75	-	F-PP-75
1" (25nb)	F-AL-100	F-BR-100	F-SS-100	F-316-100	-	F-PP-100
1-1/4" (32nb)	F-AL-125	F-BR-125	F-SS-125	F-316-125	-	F-PP-125
1-1/2" (38nb)	F-AL-150	F-BR-150	F-SS-150	F-316-150	F-DI-150	F-PP-150
2" (51nb)	F-AL-200	F-BR-200	F-SS-200	F-316-200	F-DI-200	F-PP-200
2-1/2" (64nb)	F-AL-250	F-BR-250	F-SS-250	F-316-250	F-DI-250	F-PP-250
3" (76nb)	F-AL-300	F-BR-300	F-SS-300	F-316-300	F-DI-300	F-PP-300
4" (102nb)	F-AL-400	F-BR-400	F-SS-400	F-316-400	F-DI-400	F-PP-400
5" (127nb)	F-AL-500	F-BR-500	F-SS-500	F-316-500	F-DI-500	-
6" (152nb)	F-AL-600	F-BR-600	F-SS-600	F-316-600	-	-
8" (203nb)	F-AL-800	F-BR-800	-	-	-	-

Note: Locking levers can be supplied and fitted to these camlocks. Spare gaskets and levers and pull rings are available.

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## PART DC

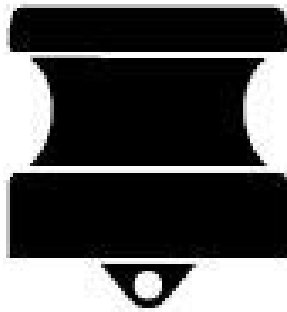
### Female Camlock Dust Cap

SIZE	ALUMINIUM	BRASS	GRADE 304 S/S	GRADE 316 S/S	DUCTILE IRON	POLY GLASS
1/2" (12nb)	DC-AL-50	DC-BR-50	DC-SS-50	DC-316-50	-	DC-PP-50
3/4" (19nb)	DC-AL-75	DC-BR-75	DC-SS-75	DC-316-75	-	DC-PP-75
1" (25nb)	DC-AL-100	DC-BR-100	DC-SS-100	DC-316-100	-	DC-PP-100
1-1/4" (32nb)	DC-AL-125	DC-BR-125	DC-SS-125	DC-316-125	-	DC-PP-125
1-1/2" (38nb)	DC-AL-150	DC-BR-150	DC-SS-150	DC-316-150	DC-DI-150	DC-PP-150
2" (51nb)	DC-AL-200	DC-BR-200	DC-SS-200	DC-316-200	DC-DI-200	DC-PP-200
2-1/2" (64nb)	DC-AL-250	DC-BR-250	DC-SS-250	DC-316-250	DC-DI-250	DC-PP-250
3" (76nb)	DC-AL-300	DC-BR-300	DC-SS-300	DC-316-300	DC-DI-300	DC-PP-300
4" (102nb)	DC-AL-400	DC-BR-400	DC-SS-400	DC-316-400	DC-DI-400	DC-PP-400
5" (127nb)	DC-AL-500	DC-BR-500	DC-SS-500	DC-316-500	DC-DI-500	-
6" (152nb)	DC-AL-600	DC-BR-600	DC-SS-600	DC-316-600	-	-
8" (203nb)	DC-AL-800	DC-BR-800	-	-	-	-

Note: Locking levers can be supplied and fitted to these camlocks. Spare gaskets and levers and pull rings are available.

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## PART DP

### Male Camlock Dust Plug

SIZE	ALUMINIUM	BRASS	GRADE 304 S/S	GRADE 316 S/S	DUCTILE IRON	POLY GLASS
1/2" (12nb)	DP-AL-50	DP-BR-50	DP-SS-50	DP-316-50	-	DP-PP-50
3/4" (19nb)	DP-AL-75	DP-BR-75	DP-SS-75	DP-316-75	-	DP-PP-75
1" (25nb)	DP-AL-100	DP-BR-100	DP-SS-100	DP-316-100	-	DP-PP-100
1-1/4" (32nb)	DP-AL-125	DP-BR-125	DP-SS-125	DP-316-125	-	DP-PP-125
1-1/2" (38nb)	DP-AL-150	DP-BR-150	DP-SS-150	DP-316-150	DP-DI-150	DP-PP-150
2" (51nb)	DP-AL-200	DP-BR-200	DP-SS-200	DP-316-200	DP-DI-200	DP-PP-200
2-1/2" (64nb)	DP-AL-250	DP-BR-250	DP-SS-250	DP-316-250	DP-DI-250	DP-PP-250
3" (76nb)	DP-AL-300	DP-BR-300	DP-SS-300	DP-316-300	DP-DI-300	DP-PP-300
4" (102nb)	DP-AL-400	DP-BR-400	DP-SS-400	DP-316-400	DP-DI-400	DP-PP-400
5" (127nb)	DP-AL-500	DP-BR-500	DP-SS-500	DP-316-500	DP-DI-500	-
6" (152nb)	DP-AL-600	DP-BR-600	DP-SS-600	DP-316-600	-	-
8" (203nb)	DP-AL-800	DP-BR-800	-	-	-	-

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## ACCESSORIES

### Gaskets and Lever Sets

MATERIALS	S/S LOCKING LEVER SETS	S/S LEVER SETS	BRASS LEVER SETS	BUNA N GASKETS	VITON GASKETS	TEFLON ENCAPSULATED GASKETS
1/2" (12nb)	-	-	-	BG-50	-	-
3/4" (19nb)	-	HRPSS-75	HRPB-75	BG-75	-	-
1" (25nb)	LHRPSS-100	HRPSS-100	HRPB-100	BG-100	VG-100	TG-100
1-1/4" (32nb)	LHRPSS-125	HRPSS-125	HRPB-125	BG-125	-	-
1-1/2" (38nb)	LHRPSS-150	HRPSS-150	HRPB-150	BG-150	VG-150	TG-150
2" (51nb)	LHRPSS-200	HRPSS-200	HRPB-200	BG-200	VG-200	TG-200
2-1/2" (64nb)	LHRPSS-250	HRPSS-250	HRPB-250	BG-250	VG-250	TG-250
3" (76nb)	LHRPSS-300	HRPSS-300	HRPB-300	BG-300	VG-300	TG-300
4" (102nb)	LHRPSS-400	HRPSS-400	HRPB-400	BG-400	VG-400	TG-400
5" (127nb)	-	-	-	BG-500	-	-
6" (152nb)	-	HRPSS-600	HRPB-600	BG-600	-	-
8" (203nb)	-	-	-	BG-800	-	-

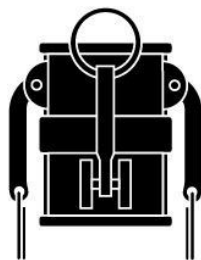
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## PART AA

### Male Camlock to Male Camlock

SIZE	ALUMINIUM	BRASS	GRADE 304 S/S	GRADE 316 S/S	DUCTILE IRON	POLY GLASS
25nb	AA-AL-100	-	-	AA-316-100	-	-
38nb	AA-AL-150	AA-BR-150	-	AA-316-150	-	-
38 x 51nb	AA-AL-1520	-	-	AA-316-1520	-	-
51nb	AA-AL-200	AA-BR-200	-	AA-316-200	-	-
51 x 76nb	AA-AL-2030	-	-	AA-316-2030	-	-
64nb	AA-AL-250	AA-BR-250	-	-	-	-
76nb	AA-AL-300	AA-BR-300	-	AA-316-300	-	-
76 x 102nb	AA-AL-3040	-	-	AA-316-3040	-	-
102nb	AA-AL-400	AA-BR-400	-	AA-316-400	-	-

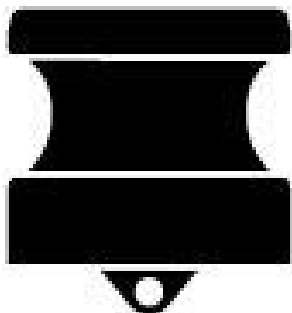


## PART DD

### Female Camlock to Female Camlock

SIZE	ALUMINIUM	BRASS	GRADE 304 S/S	GRADE 316 S/S	DUCTILE IRON	POLY GLASS
1-1/2" (38nb)	DD-AL-150	-	-	DD-316-150	-	-
2" (51nb)	DD-AL-200	-	-	DD-316-200	-	-
3" (76nb)	DD-AL-300	-	-	DD-316-300	-	-
4" (102nb)	DD-AL-400	-	-	DD-316-400	-	-

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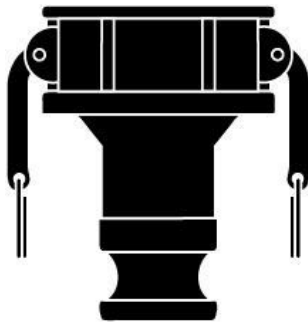


## PART DP

### Male Camlock Dust Plug

SIZE	ALUMINIUM	BRASS	GRADE 304 S/S	GRADE 316 S/S	DUCTILE IRON	POLY GLASS
1/2" (12nb)	DP-AL-50	DP-BR-50	DP-SS-50	DP-316-50	-	DP-PP-50
3/4" (19nb)	DP-AL-75	DP-BR-75	DP-SS-75	DP-316-75	-	DP-PP-75
1" (25nb)	DP-AL-100	DP-BR-100	DP-SS-100	DP-316-100	-	DP-PP-100
1-1/4" (32nb)	DP-AL-125	DP-BR-125	DP-SS-125	DP-316-125	-	DP-PP-125
1-1/2" (38nb)	DP-AL-150	DP-BR-150	DP-SS-150	DP-316-150	DP-DI-150	DP-PP-150
2" (51nb)	DP-AL-200	DP-BR-200	DP-SS-200	DP-316-200	DP-DI-200	DP-PP-200
2-1/2" (64nb)	DP-AL-250	DP-BR-250	DP-SS-250	DP-316-250	DP-DI-250	DP-PP-250
3" (76nb)	DP-AL-300	DP-BR-300	DP-SS-300	DP-316-300	DP-DI-300	DP-PP-300
4" (102nb)	DP-AL-400	DP-BR-400	DP-SS-400	DP-316-400	DP-DI-400	DP-PP-400
5" (127nb)	DP-AL-500	DP-BR-500	DP-SS-500	DP-316-500	DP-DI-500	DP-PP-500
6" (152nb)	DP-AL-600	DP-BR-600	DP-SS-600	DP-316-600	DP-DI-600	DP-PP-600
8" (203nb)	DP-AL-800	DP-BR-800	DP-SS-800	DP-316-800	DP-DI-800	DP-PP-800

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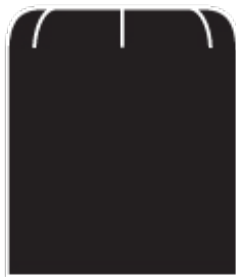
## PART DA

### Female Camlock to Male Camlock Adaptor

SIZE	ALUMINIUM	BRASS	GRADE 304 S/S	GRADE 316 S/S	DUCTILE IRON	POLY GLASS
38 x 25nb	DA-AL-1510	-	-	-	-	-
38 x 51nb	DA-AL-1520	-	-	-	-	-
51 x 38nb	DA-AL-2015	-	-	DA-316-2015	-	-
51 x 76nb	DA-AL-2030	DA-BR-2030	-	-	-	-
51 x 102nb	DA-AL-2040	-	-	-	-	-
76 x 38nb	DA-AL-3015	-	-	-	-	-
76 x 51nb	DA-AL-3020	DA-BR-3020	-	DA-316-3020	-	-
76 x 102nb	DA-AL-3040	-	-	-	-	-
102 x 51nb	DA-AL-4020	DA-BR-4020	-	-	-	-
102 x 76nb	DA-AL-4030	DA-BR-4030	-	DA-316-4030	-	-
102 x 152nb	DA-AL-4060	-	-	DA-316-6040	-	-
102 x 102nb	DA-AL-6040	DA-BR-6040	-	-	-	-

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## CAMLOCK CRIMP FERRULES

PRODUCT CODE	PLATED STEEL NB X ID (MM)	PRODUCT CODE	GRD 304SS NB X ID (MM)	PRODUCT CODE	GRD 304SS NB X ID (MM)
FPS150160	38 x 49.1	FSS100132	25 x 38.1	FSS400500	102 x 127
FPS150200	38 x 50.8	FSS100136	25 x 39.69	FSS400504	102 x 128.59
FPS150204	38 x 52.39	FSS100140	25 x 41.28	FSS600656	152 x 174.63
FPS150208	38 x 53.98	FSS100144	25 x 42.86	FSS600708	152 x 180.98
FPS150212	38 x 55.56	FSS100148	25 x 44.45	FSS600724	152 x 187.33
FPS150216	38 x 57.15	FSS100152	25 x 46.04	-	-
FPS150220	38 x 58.74	FSS150160	38 x 49.21	-	-
FPS150224	38 x 60.33	FSS150200	38 x 50.8	-	-
FPS200232	51 x 63.5	FSS150204	38 x 52.39	-	-
FPS200236	51 x 65.09	FSS150208	38 x 53.98	-	-
FPS200240	51 x 66.68	FSS150212	38 x 55.56	-	-
FPS200244	51 x 68.26	FSS150216	38 x 57.15	-	-
FPS200248	51 x 69.85	FSS150220	38 x 58.74	-	-
FPS200252	51 x 71.48	FSS150224	38 x 60.33	-	-
FPS200256	51 x 73.03	FSS200232	51 x 63.5	-	-
FPS200260	51 x 74.61	FSS200236	51 x 65.09	-	-
FPS250308	64 x 79.38	FSS200240	51 x 66.68	-	-
FPS250312	64 x 80.96	FSS200244	51 x 68.26	-	-
FPS250316	64 x 82.55	FSS200248	51 x 69.85	-	-
FPS250320	64 x 84.14	FSS200252	51 x 71.44	-	-
FPS250328	64 x 87.31	FSS200256	51 x 73.03	-	-
FPS300336	76 x 90.49	FSS200260	51 x 74.61	-	-
FPS300340	76 x 92.08	FSS250308	64 x 79.38	-	-
FPS300344	76 x 93.66	FSS250312	64 x 80.96	-	-

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## CAMLOCK CRIMP FERRULES

PRODUCT CODE	PLATED STEEL NB X ID (MM)	PRODUCT CODE	GRD 304SS NB X ID (MM)	PRODUCT CODE	GRD 304SS NB X ID (MM)
FPS300348	76 x 95.25	FSS250316	64 x 82.55	-	-
FPS300352	76 x 96.84	FSS250320	64 x 84.14	-	-
FPS300356	76 x 98.43	FSS250328	64 x 87.31	-	-
FPS300360	76 x 100.01	FSS300336	76 x 90.49	-	-
FPS300400	76 x 101.6	FSS300340	76 x 92.08	-	-
FPS300408	76 x 104.78	FSS300344	76 x 93.66	-	-
FPS300416	76 x 107.95	FSS300348	76 x 95.25	-	-
FPS400436	102 x 115.89	FSS300352	76 x 96.84	-	-
FPS400440	102 x 117.48	FSS300356	76 x 98.43	-	-
FPS400444	102 x 119.06	FSS300360	76 x 100.01	-	-
FPS400448	102 x 120.65	FSS300400	76 x 101.6	-	-
FPS400452	102 x 122.24	FSS300408	76 x 104.78	-	-
FPS400456	102 x 123.83	FSS300416	76 x 107.95	-	-
FPS400460	102 x 125.41	FSS400436	102 x 115.89	-	-
FPS400500	102 x 127	FSS400440	102 x 117.48	-	-
FPS400504	102 x 128.59	FSS400444	102 x 119.06	-	-
FPS600640	152 x 168.29	FSS400448	102 x 120.65	-	-
FPS600656	152 x 174.63	FSS400452	102 x 122.24	-	-
FPS600708	152 x 180.26	FSS400456	102 x 123.83	-	-
FPS600724	152 x 187.33	FSS400460	102 x 125.41	-	-

## UPTURNED CRIMP HOSE TAIL SYSTEM (Lap Joint)

This is a precision engineered industrial hose tail and ferrule combination specifically designed to allow any pattern loose plate flange to be used as a loose or swivel. These are sometimes referred to as a lap joint or even stub end. The crimp tail is matched to the crimp ferrule to provide a 16 bar working pressure capability. Hose tails are available in stainless steel or carbon steel. Ferrules are available in stainless steel.

### HOSE TAILS



SIZE (mm/nb)	CARBON STEEL	STAINLESS STEEL
38	OGUHT038CS	OGUHT038SS
51	OGUHT051CS	OGUHT051SS
63	OGUHT063CS	OGUHT063SS
76	OGUHT076CS	OGUHT076SS
102	OGUHT102CS	OGUHT102SS
152	OGUHT152CS	OGUHT152SS
203	OGUHT203CS	OGUHT203SS

### FERRULES



SIZE (mm/nb)	PRODUCT CODE	HOSE OD (mm)
38	OGFSS038052HDSS	52
38	OGFSS038054HDSS	54
51	OGFSS051067HDSS	67
51	OGFSS051068HDSS	68
51	OGFSS051071HDSS	71
63	OGFSS063079HDSS	79
63	OGFSS063082HDSS	82
76	OGFSS076093HDSS	93
76	OGFSS076094HDSS	94
76	OGFSS076096HDSS	96
102	OGFSS102120HDSS	120
102	OGFSS102123HDSS	123
102	OGFSS102135HDSS	135

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## NO SWEAT-ONE PIECE CRIMP (20 bar)

- Ferrule and Stem are welded together as a "one piece"
- Innovative Design to reduce labour in application and ease of assembly.
- Carbon Steel and Stainless Steel options in 20 bar series
- Smooth rounded serrations are machined to provide retention without damaging the hose.
- Three small grooves at the tail end of the fittings are machined to allow the cross link/UHMW liner to flow into the grooves. This process will form three integral "o" rings.
- NPT standard male threads
- Carbon Steel Yellow Chromate finished zinc plated (except weld prep ends) and stainless steel (Grd 316 tail, Grd 304 ferrule)

SIZE (mm/nb)	PRODUCT CODE	HOSE OD (mm)	PRODUCT CODE	HOSE OD (mm)
51	NS300CS200A	68.26	NS300SS-200B	71.40
76	NS300CS300AA	93.66	NS300SS-300B	93.65
102	NS300CS400AA	119.06	NS300SS-400B	122.22
152			NS300SS-600B	180.98

Note: Refer to crimp charts after measuring the hose outside diameter.

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## NO SWEAT-ONE PIECE CRIMP (40 bar)

- Ferrule and Stem are welded together as a "one piece"
- Innovative Design to reduce labour in application and ease of assembly.
- NPT standard male threads
- Weld prep ends rated to 10 bar
- Carbon Steel Yellow Chromate finished zinc plated (except weld prep ends) and stainless steel (grd 316 tail, Grd 304 ferrule)

SIZE (mm/nb)	PRODUCT CODE	SMALLEST OD (mm)	LARGEST OD (mm)
51	MP200-ANS	65.09	66.68
51	MP200-BNS	67.07	69.85
51	MP200-CNS	70.25	73.03
51	MP200-DNS	73.42	76.99
76	MP300-ANS	85.63	89.78
76	MP300-AANS	85.63	91.98
76	MP300-BNS	92.37	95.15
76	MP300-CNS	95.55	98.33
76	MP300-DNS	98.72	101.60
102	MP400-AANS	111.92	117.08
102	MP400-ANS	117.48	119.06
102	MP400-BNS	119.46	122.24
102	MP400-CNS	122.63	125.41
102	MP400-DNS	125.81	128.59
127	MP500-BNS	149.58	150.81
127	MP500-BNS	151.21	153.99
152	MP600-AANS	171.45	177.40
152	MP600-ANS		179.39
203	MP800-ANS		236.53

Note: Refer to crimp charts after measuring the hose outside diameter.





## TWO PIECE CRIMP SLEEVE-KOMBO (20 bar)

- Superior retention to other sleeve systems
- Fewer sleeves for inventory
- 20 bar working pressure
- Carbon Steel Yellow Chromate finished zinc plated
- NPT standard male threads

### HD KOMBO CRIMP SLEEVE CS

PRODUCT CODE	SMALLEST OD (mm)	LARGEST OD (mm)
OG2HDKSSA	65.10	66.68
OG3HDKSSA	90.49	92.08
OG4HDKSSA	117.48	119.06

### NPT HD KOMBO CRIMP HOSE TAIL CS

PRODUCT CODE	SIZE (mm/nb)
OGHDK200	51
OGHDK300	76
OGHDK400	102

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## TWO PIECE CRIMP-HEAVY DUTY (40 bar)

Recommended for most one and two wire braided, fibre braided and helical wire reinforced hoses, such as:

- Oil suction and discharge hose
- Barge and dock loading and unloading hose
- Frac hose

Features and Options:

- Chemical hose
- Superior retention to external crimp systems
- Up to 600 psi working pressure
- Carbon Steel Yellow Chromate finished zinc plated
- Grade 316 stainless tails and grade 316 stainless ferrules
- NPT standard male threads
- Flanged any flange configuration
- Weld prep ends
- Victaulic ends
- Hooky hook ends
- Special ends as required

SIZE (mm/nb)	NPT MALE (CS)	NPT MALE (SS)	BEVELLED END (CS)	BEVELLED END (SS)	HOOKEY HOOK (CS)	WORKING PRESSURE (bar)
51	MP200	MPSR200	MW200	MWSR200	MP200-HL	41
64	MP250	MPSR250	MW250	MWSR250		41
76	MP300	MPSR300	MW300	MWSR300	MP300-HL	41
102	MP400	MPSR400	MW400	MWSR400	MP400-HL	37
127	MP500	MPSR500	MW500	MWSR500	MP500-HL	31
152	MP600	MPSR600	MW600	MWSR600	MP600-HL	27
203	MP800	MPSR800	MW800	MWSR800		25

Note: Refer to crimp charts after measuring the hose outside diameter.

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## TWO PIECE FERRULES-HEAVY DUTY

### Carbon Steel (40 bar)

SIZE (mm/nb)	PRODUCT CODE	SMALLEST OD (mm)	LARGEST OD (mm)
51	F200-A	65.09	66.68
51	F200-B	67.07	69.85
51	F200-C	70.25	73.03
51	F200-D	73.42	76.99
64	F250-A	77.79	79.38
64	F250-B	79.77	82.55
64	F250-C	82.95	85.73
64	F250-D	86.12	88.90
76	F300-A	90.49	92.08
76	F300-B	92.47	95.25
76	F300-C	95.65	98.43
76	F300-D	98.82	101.60
102	F400-AA	111.92	117.08
102	F400-A	117.48	119.06
102	F400-B	119.46	122.24
102	F400-C	122.63	125.41
102	F400-D	125.81	128.59
102	F400-E	127.76	134.11
127	F500-AA	144.46	144.46
127	F500-A	149.23	150.81
127	F500-B	151.21	153.99
127	F500-C	128.98	157.16

Table continues on next page...

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## TWO PIECE FERRULES-HEAVY DUTY

### Carbon Steel (40 bar)

SIZE (mm/nb)	PRODUCT CODE	SMALLEST OD (mm)	LARGEST OD (mm)
152	F600-AA	171.45	177.40
152	F600-A	177.80	179.39
152	F600-B	179.78	182.56
152	F600-C	182.96	185.74
203	F800-AA	225.43	236.14
203	F800-A	236.54	238.13
203	F800-B	238.52	241.30
203	F800-C	241.70	244.48
203	F800-D	244.87	247.65
254	F1000-A	292.10	296.86
254	F1000-B	297.26	303.21
254	F1000-C	303.61	309.56
254	F1000-D	309.96	315.91
305	F1200-A		
305	F1200-B		
305	F1200-C		
305	F1200-D		

## TWO PIECE FERRULES-HEAVY DUTY

### Stainless Steel (40 bar)

SIZE (mm/nb)	PRODUCT CODE	SMALLEST OD (mm)	LARGEST OD (mm)
51	OGFSR200B	67.07	69.85
76	OGFSR300B	92.47	95.25
102	OGFSR400B	119.47	122.23
152	OGFSR600B	179.78	182.56

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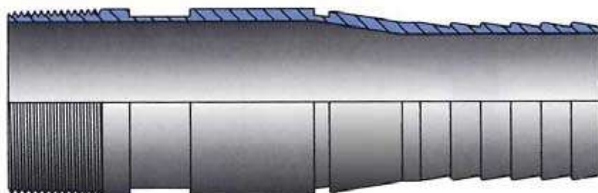
## INTERNAL SWAGE/ EXTERNAL CRIMP FITTINGS (Hooky Hook Style)

### 25 BAR WP COUPLINGS

HOSE BORE	API MALE THREADED HOOKIE HOOK STEM	NPT MALE THREADED HOOKIE HOOK STEM	HOSE LIFTER ASSEMBLY	FERRULES
2.00"	NI-0200-11-XX	NI-0200-28-XX	HL050	NI-0200-00-XX/X-XX
3.00"	NI-0300-11-XX	NI-0300-28-XX	HL080	NI-0300-00-XX/X-XX
4.00"	NI-0400-11-XX	NI-0400-28-XX	HL100	NI-0400-00-XX/X-XX
5.00"	NI-0500-11-XX	NI-0500-28-XX	HL125	NI-0500-00-XX/X-XX
6.00"	NI-0600-11-XX	NI-0600-28-XX	HL150	NI-0600-00-XX/X-XX

### 40 BAR WP COUPLINGS

HOSE BORE	API MALE THREADED HOOKIE HOOK STEM	NPT MALE THREADED HOOKIE HOOK STEM	HOSE LIFTER ASSEMBLY	FERRULES
2.00"	NI-0200-18-XX	NI-0200-56-XX	HL050	NI-0200-05-XX/X-XX
3.00"	NI-0300-18-XX	NI-0300-56-XX	HL080	NI-0300-05-XX/X-XX
4.00"	NI-0400-18-XX	NI-0400-56-XX	HL100	NI-0400-05-XX/X-XX
5.00"	NI-0500-18-XX	NI-0500-56-XX	HL125	NI-0500-05-XX/X-XX
6.00"	NI-0600-18-XX	NI-0600-56-XX	HL150	NI-0600-05-XX/X-XX



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## INTERNAL SWAGE/ EXTERNAL CRIMP FITTINGS (Hooky Hook style)

### NOTES

1. The last two digits of any part number designates product material/coating, (see adjacent table).
2. The XX/X digits in the ferrule part number are determined by the wall thickness of the hose, (see Ferrule selection table).
3. All products can be supplied with ISO 10204 3.1 certificates of conformity.
4. Each hose lifter assembly comprises a hose lifter and retaining ring.
5. All hose lifters are proof load tested and supplied with test certificates.

### MATERIAL / COATING SELECTION

0	Uncoated Carbon Steel
0	8µm Electro-Plated Zinc & Yellow Passivation
0	12µm Electro-Plated Zinc & Yellow Passivation
1	Stainless Steel Grade 316L

Other options available upon request

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## INTERNAL SWAGE/EXTERNAL CRIMP FITTINGS (Standard Style)

### 25 BAR WP COUPLINGS

HOSE BORE	BSPT MALE THREAD STEMS	NPT MALE THREAD STEMS	API MALE THREAD STEMS	FERRULES
1.00"	NI-0100-01-XX	NI-0100-02-XX	NI-0100-03-XX	NI-0100-00-XX/X-XX
1.25"	NI-0125-01-XX	NI-0125-02-XX	NI-0125-03-XX	NI-0125-00-XX/X-XX
1.50"	NI-0150-01-XX	NI-0150-02-XX	NI-0150-03-XX	NI-0150-00-XX/-XX
2.00"	NI-0200-01-XX	NI-0200-02-XX	NI-0200-03-XX	NI-0200-00-XX/X-XX
2.50"	NI-0250-01-XX	NI-0250-02-XX	NI-0250-03-XX	NI-0250-00-XX/X-XX
3.00"	NI-0300-01-XX	NI-0300-02-XX	NI-0300-03-XX	NI-0300-00-XX/X-XX
4.00"	NI-0400-01-XX	NI-0400-02-XX	NI-0400-03-XX	NI-0400-00-XX/X-XX
5.00"	NI-0500-01-XX	NI-0500-02-XX	NI-0500-03-XX	NI-0500-00-XX/X-XX
6.00"	NI-0600-01-XX	NI-0600-02-XX	NI-0600-03-XX	NI-0600-00-XX/X-XX
8.00"	NI-0800-01-XX	NI-0800-02-XX	NI-0800-03-XX	NI-0800-00-XX/X-XX
10.00"	NI-1000-01-XX	NI-1000-02-XX	NI-1000-03-XX	NI-1000-00-XX/X-XX
12.00"	NI-1200-01-XX	NI-1200-02-XX	NI-1200-03-XX	NI-1200-00-XX/X-XX

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# INTERNAL SWAGE/EXTERNAL CRIMP FITTINGS (Standard Style)

## 40 BAR WP COUPLINGS

HOSE BORE	BSPT MALE THREAD STEMS	NPT MALE THREAD STEMS	API MALE THREAD STEMS	FERRULES
1.00"	NI-0100-58-XX	NI-0100-19-XX	NI-0100-59-XX	NI-0100-05-XX/X-XX
1.25"	NI-0125-58-XX	NI-0125-19-XX	NI-0125-59-XX	NI-0125-05-XX/X-XX
1.50"	NI-0150-58-XX	NI-0150-19-XX	NI-0150-59-XX	NI-0150-05-XX/X-XX
2.00"	NI-0200-58-XX	NI-0200-19-XX	NI-0200-59-XX	NI-0200-05-XX/X-XX
2.50"	NI-0250-58-XX	NI-0250-19-XX	NI-0250-59-XX	NI-0250-05-XX/X-XX
3.00"	NI-0300-58-XX	NI-0300-19-XX	NI-0300-59-XX	NI-0300-05-XX/X-XX
4.00"	NI-0400-58-XX	NI-0400-19-XX	NI-0400-59-XX	NI-0400-05-XX/X-XX
5.00"	NI-0500-58-XX	NI-0500-19-XX	NI-0500-59-XX	NI-0500-05-XX/X-XX
6.00"	NI-0600-58-XX	NI-0600-19-XX	NI-0600-59-XX	NI-0600-05-XX/X-XX
8.00"	NI-0800-58-XX	NI-0800-19-XX	NI-0800-59-XX	NI-0800-05-XX/X-XX
10.00"	NI-1000-58-XX	NI-1000-19-XX	NI-1000-59-XX	NI-1000-05-XX/X-XX
12.00"	NI-1200-58-XX	NI-1200-19-XX	NI-1200-59-XX	NI-1200-05-XX/X-XX

### NOTES

1. The last two digits of any part number designates product material/coating, (see adjacent table).
2. The XX/X digits in the ferrule part number are determined by the wall thickness of the hose, (see Ferrule selection table).
3. All products can be supplied with ISO 10204 3.1 certificates of conformity.

### MATERIAL / COATING SELECTION

00	Uncoated Carbon Steel
02	8µm Electro-Plated Zinc & Yellow Passivation
06	12µm Electro-Plated Zinc & Yellow Passivation
10	Stainless Steel Grade 316L

Other options available upon request

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## FIRE FIGHTING AND WASHDOWN (Fire Fittings and Assembly Service)

We have a wide range of hose end fittings to suit your applications, including threaded and quick release couplings. The most common used in the oil and gas industry is the NPSH, NST, BIC and Storz couplings, all can be wire whipped or band clamped with precision retention assembly machines that will afford the very best in security. Hose assembly methods are determined by the application of these hoses to ensure the appropriate level of application can be deployed.

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## FIRE FIGHTING AND WASHDOWN (Fire Fittings and Assembly Service)

### ASSEMBLY AND TESTING SERVICE

- Stainless steel wire whipping
- Band and Buckle
- Preformed Clamps
- Sheath protection available.
- Compliance to AS 2792-1992 and AS1851.9

### HOSE FITTINGS

- BIC Couplings Aluminium and Brass and Gunmetal
- Cam-Lock Aluminium, stainless steel, brass, bronze
- Bauer Couplings plated steel with special crimp tail version
- Storz Couplings Aluminium
- Flanged Hose Tails and many others.

PRODUCT CODE	DESCRIPTION
OGBICFT064038GM	BIC FEMALE TO 38mm HOSE TAIL GUNMETAL
OGBICFT064051GM	BIC FEMALE TO 51mm HOSE TAIL GUNMETAL
OGBICFT064064GM	BIC FEMALE TO 64mm HOSE TAIL GUNMETAL
OGBICMT064038GM	BIC MALE TO 38mm HOSE TAIL GUNMETAL
OGBICMT064051GM	BIC MALE TO 51mm HOSE TAIL GUNMETAL
OGBICMT064064GM	BIC MALE TO 64mm HOSE TAIL GUNMETAL
OGBICFF64X50NPTBR	BIC FEM X 2" NPT FEMALE BRASS COUPLING
OGBICMF050BR	64NB BIC MALE X 2" BSP FEMALE BR
OGBICMF64X50NPTBR	MALE ADAPTERS INSIDE 2-1/2" X 2" BRASS
OGBICWNBR	BIC 64MM NBR WASHERS

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## 206 HOSE UNION (FRACKING COUPLING)

### Complete set

#### RECOMMENDED USE

- Multi-purpose fluid, chemical, bulk handling

#### RECOMMENDED HOSE ATTACHMENTS

- Interlocking ferrules

#### FEATURES AND BENEFITS

- Designed for use with Campbell Interlocking Ferrules
- Fittings use the same ferrules as Campbell COBRA Parts C and E, Chemjoint Couplings, to keep ferrule inventory low and flexible
- Interlock groove on fitting locks ferrule into place for the ultimate in holding power
- Graduated serration pattern (sharper near the interlock, rounder near the end, with smooth end detail to reduce potential failures caused by abrasion) grips, seals and protects hose.
- Shank and ferrule lengths are matched for performance and to avoid potential hose tube or cover damage
- Crimped assemblies are low profile and eliminate sharp edges from clamp buckles

#### SPECIAL FEATURES

- Crimpnology Nipples provide an excellent fitting solution for medium-pressure applications such as "Frac Hose", mud pump hose, and other abusive applications

PRODUCT CODE	DESCRIPTION
OG206S-16C-400	Forged steel Male and female sub crimp tail
OG206N-16C	Steel Fig 206 wing nut 2 piece (for field repair)

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## FRACKING FITTINGS (Crimpnology Style)

Fracking Fittings are used on hose assemblies that pump drilling muds and fluids on fracking sites. Built to withstand operating pressures of 400psi they are available in a Fig 206 hammer union male and female one piece crimp tail sub. The hose tail is manufactured from ductile iron providing superior wear resistance.

Also available with NPT male ends to adapt to other types of end connections. Ferrules are available in plated steel and in 5 different sizes to suit a variety of hoses. 206C-16C is supplied as a set comprising of two off 102nb crimp hose tails complete with Fig 206 hammer union nut male and female subs.

Heavy duty Frac Ferrules are available in plated steel to suit outside diameters of hose from 119mm through to 127mm.

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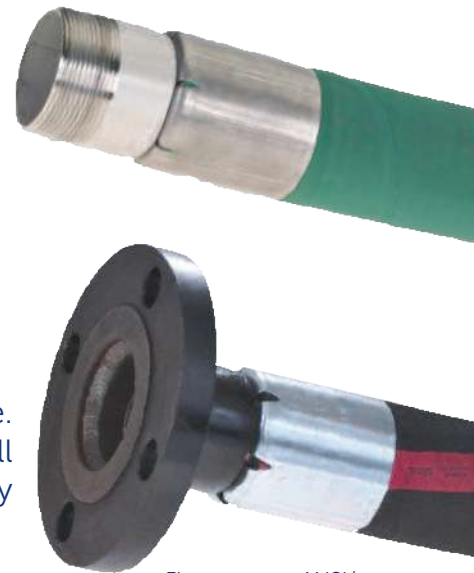
## OILFIELD FITTINGS

### STOP LEAKS AND BLOW-OFFS!

Downtime caused by leaks and blow-offs is an incalculable expense. The media attention that follows can be devastating. Use Campbell Crimpnology fittings, flanged fittings, and hose unions... specified by the largest service companies in the world.

### FEATURES & BENEFITS

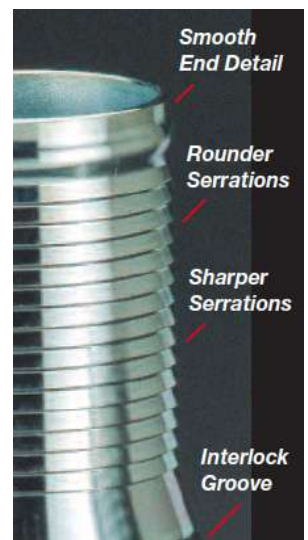
- Designed for use with Campbell Interlocking Ferrules.
- Fittings use the same ferrules as Campbell COBRA Parts C and E, ChemJoint Couplings, and Goodyear InstaLock Cam & Groove Couplings to keep ferrule inventory low and flexible.
- Interlock groove on fitting locks ferrule into place for the ultimate in holding power.
- Graduated serration pattern (sharper near the interlock, rounder near the end, with smooth end detail to reduce potential failure caused by abrasion) grips, seals, and protects hose (left).
- Shank and ferrule lengths are matched for performance and to avoid potential hose tube or cover damage.
- Crimped assemblies are low profile and eliminate sharp edges from clamp buckles.



Flanges meet ANSI/ASME B16.5 150 pound class specifications.



Crimpnology fittings at work ... stopping leaks and blow-offs!



Crimpnology Nipple

### MAX. SYSTEM WORKING PRESSURE (PSI @ 70°F)

#### HOSE SYSTEM COMPONENTS

#### HOSE SIZE

FITTING/COUPLING	ATTACHMENT	HOSE TYPE	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	6	8
Crimpnology Nipple	Ferrule	Chem/Rubber	–	–	500	350	325	300	275	250	250	225	–
Crimpnology Nipple	Ferrule	Soft	–	–	200	175	150	150	125	100	75	–	–
Long Crimpnology Nipple	Long Ferrule	Rubber	–	–	–	–	1000	1000	650	600	500	–	–
Crimpnology Flange (Steel)	Ferrule	Chem/Rubber	–	–	–	–	285	285	275	250	250	225	–
Crimpnology Flange (SS)	Ferrule	Chem/Rubber	–	–	–	–	230	230	230	230	230	–	–

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## THE BEAST

Crimped onto the ends of 5,000psi multi-spiral hose to provide joint free non NPT threaded connection between the hose and the joining hammer union sub.

- Fig 1502 hammer union integral crimp non skive fitting
- Suits 6 wire multi-spiral hose.
- Rated for 5,000psi working pressure
- Also available in H2S Sour Gas version.

PRODUCT CODE	DESCRIPTION
2FBST1502NSK	2" F1502 Female sub crimp tail
2MBST1502NSK	2" F1502 Male sub crimp tail (add wing nut)
2FERBSTNSK	2" F1502 crimp tail ferrule non skive
HUF1502050WN	2" Fig 1502 hammer union wing nut

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## WATER TRANSFER

### UBER BAUER BALL AND SOCKET COUPLINGS

The ultimate in large bore hose technology! When is water transfer not water transfer? When it's sewer bypass, refinery sludge, or whenever it's got something floating in it other than pure H<sub>2</sub>O. So, when you need large couplings to do a large job, you don't want large problems caused by leaky ball and socket couplings.

Uber Bauer couplings are genuine Bauer Ball and Socket ends welded to Campbell Crimpnology Schedule 40 steel machined hose ends. The genuine Bauer lever keeps it all together. Uber Bauer is all about Crimpnology.

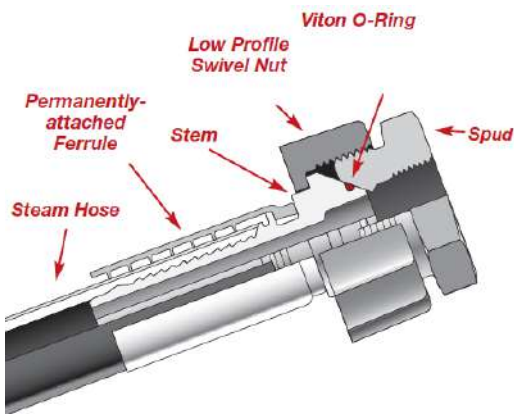
- Machined hose ends (far right)
- Crimp sleeves for the ultimate in hose retention and sealing (pressure test results available on request).
- Easy insertion into the hose cuts assembly time up to two-thirds.
- Sizes in 2", 3", 4", 6", and 8"



Bauer-style vs. Campbell (r) Ball & Socket



## STEAM HOSE COUPLING



### MALE SWIVEL

Unique to Campbell, a male-threaded, live-steam swivel allows for easy installation of crimped steam hose into plant or onto steam wands or tools.

### TESTING & VALIDATION

In addition to extensive steam rack testing performed by the hose manufacturers, Campbell validates the testing by hydrostatic burst testing to ASTM D 380 standard. Then, depending on the hose type, we use a 10 times or 20 times working pressure safety factor.

### VITON SEAL GROUND JOINT COUPLINGS

**Size Range: 1/2", 3/4", 1"**

Precision-machined, metal-to-metal mating surface and a steam-approved DuPont Viton O-ring as a secondary seal provide superior sealing. It's leak-free, hand-tight.

- Leak-free, hand-tight.
- No more hammering on wing nuts means fewer injuries and lower maintenance costs.
- The coupling is interchangeable with any ground joint-style coupling.
- Your changeover starts as soon as you replace hoses during regularly-scheduled maintenance.

### HOSE ATTACHMENT

#### Crimp-Style Ferrule

- Permanently secures the hose onto the coupling: No bolts to re-tighten; No bolts to snag on people or property.
- Bite-to-the-wire ferrule achieves electrical continuity ... eliminating dangerous electro-static charges.
- The hand-tight, leak-free coupling with a crimped-on ferrule
- eliminates dangerous, costly leaks. A leaky steam coupling can "hiss away" 2.6 lbs. of steam per minute. At a cost of \$11.00 per 1000 lbs. of steam, that hissing costs about \$41.00 per day... \$287.00 per week ... \$1250 per month per leaky fitting!



Leaking hoses are dangerous and costly



Bite-to-the-wire ferrule



## ROUGHNECK CRIMP ENDS (3000 psi)

One piece crimp fitting to suit the 3000psi general purpose 4 spiral hose.

Carbon Steel and stainless steel

Male API (NPT) and butt weld configurations.

Note: Also available in 4" and 6" sizes rated for 1000psi.

PART NUMBER	DESCRIPTION
OGMPSR300APIX300H	76nb API Male 4 wire crimp hose tail 316ss
OGFSR300-100R13	76nb Ferrule 4 wire 316ss
OGMPC300HD4500	76nb Roughneck CS API Male crimp tail and ferrule 114.3mm
OGMPC400HD5500	102nb Roughneck CS API Male crimp tail and ferrule 139.7mm



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## COUPLINGS IRONWORKS VALVES HAMMER UNIONS

### HAMMER UNIONS

#### MATERIAL:

Unions are manufactured from steel forgings using materials appropriate to specific pressure ratings.

#### END CONNECTIONS:

Available in a choice of end connections. API line pipe threads are standard. Butt weld ends can be provided. Customer to specify schedule of pipe while ordering.

#### SOUR SERVICE:

Sour service is available and all H2S service 2 parts of Sara unions conform to the latest NACE specifications.

#### LOW TEMPERATURE SERVICE:

Can be supplied for low temperature applications with suitable impact value testing.

#### INTERCHANGEABILITY:

All our union components of the same size and figure number are Weco interchangeable. All union nuts have three hammer lugs.
















#### TRACEABILITY:

Our unions are supplied with full traceability documentation for each component.

#### PRESSURE RATING (psi)

#### NOMINAL PIPE SIZE (In mm)

Assembly Colour Key  
for Standard Service

FIG NO.		STANDARD SERVICE		SOUR GAS SERVICE		1	1¼	1½	2	2½	3	4	5	6	8	10	12
		COLD WORKING	TEST	COLD WORKING	TEST	25	32	40	50	65	80	100	125	150	200	250	300
50		500	750	NA	NA							✓	✓				
100		1000	1500	NA	NA				✓	✓	✓	✓	✓	✓	✓		
200		2000	3000	NA	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
206		2000	3000	NA	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
207		2000	3000	NA	NA						✓	✓		✓			
211		2000	3000	NA	NA				✓		✓						
400		2500	3750	2500	3750									✓	✓	✓	✓
400		4000	6000	4000	6000				✓		✓	✓					
600		6000	9000	NA	NA	✓			✓		✓	✓					
602		6000	9000	6000	9000	✓	✓	✓	✓		✓	✓					
1002		10000	15000	7500	12000	✓	✓	✓	✓		✓	✓	✓	✓			
1003		10000	15000	7500	12000				✓		✓	✓	✓				
1502		15000	22500	10000	15000	✓			✓		✓	✓	✓				
2002		20000	30000	NA	NA				✓		✓	✓					
2202		NA	NA	15000	22500				✓		✓	✓					

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## FIGURE 50

Recommended for air, water, oil, or gas service to 500 PSI NSCWP. Standard subs are threaded for API line pipe.

PRODUCT CODE	SIZE (inch)	LENGTH (inch)	NUT RADIUS (inch)	WEIGHT (kg)
HUF50100N	4"	5 1/2"	5 1/4"	10.20
HUF50125N	5"	5 1/2"	5 1/4"	10.80





## FIGURE 100

Recommended for air, water, oil, or gas service to 1,000 PSI NSCWP. Standard subs are threaded for API line pipe and are Weco interchangeable. Also available with butt weld ends.

PRODUCT CODE	SIZE (inch)	LENGTH (inch)	NUT RADIUS (inch)	WEIGHT (kg)
HUF100050N	2"	3 5/8"	2 29/32"	2.60
HUF100065N	2 1/2"	4 9/32"	3 5/8"	5.20
HUF100080N	3"	5 1/8"	4"	6.20
HUF100100N	4"	5 3/4"	4 11/16"	10.20
HUF100125N	5"	6 33/64"	5 9/16"	13.80
HUF100150N	6"	6 7/8"	6 7/8"	23.20
HUF100200N	8"	7 5/16"	7 13/16"	32.20

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## FIGURE 206

Recommended for air, water, oil or gas service to 2,000 PSI NSCWP. A Buna-N 'O' ring is mounted on the plain sub to provide an additional seal. Subs and nuts of the Fig. 206 union are interchangeable with the Fig. 200 union. Standard subs are threaded for API line pipe. Sizes of 2" and above also available with butt weld ends. connections.

PRODUCT CODE	SIZE (inch)	LENGTH (inch)	NUT RADIUS (inch)	WEIGHT (kg)
HUF206025N	1"	2 19/32"	2"	1.00
HUF206032N	1 1/4"	2 25/32"	2 5/32"	1.07
HUF206040N	1 1/2"	2 29/32"	2 13/32"	1.07
HUF206050N	2"	3 1/4"	2 29/32"	2.40
HUF206065N	2 1/2"	4 1/4"	3 5/8"	5.02
HUF206080N	3"	4 17/32"	4 1/4"	6.60
HUF206100N	4"	4 15/16"	5"	9.10
HUF206150N	6"	6 25/32"	6 1/2"	19.30
HUF206200N	8"	7 5/16"	7 13/16"	29.10
HUF206250N	10"	9 3/32"	9 1/16"	41.36

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## FIGURE 207

Recommended for air, water, oil, or gas service to 2,000 PSI NSCWP. A blanking cap with Buna-N 'O' ring seal provides an efficient and dependable closure. The threaded sub is interchangeable with Fig. 200 threaded sub. Also available with butt weld ends.

PRODUCT CODE	SIZE (inch)	LENGTH (inch)	NUT RADIUS (inch)	WEIGHT (kg)
HUF207080N	3"	3 3/4"	2 3/4"	4.45
HUF207100N	4"	4 45/64"	3 17/32"	7.38
HUF207150N	6"	5 37/64"	4 27/32"	17.10

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## FIGURE 602

Recommended for air, water, oil, gas or mud service to 6,000 PSI NSCWP. This union has a replaceable lip-type seal ring of Buna-N specifically designed to minimize fluid flow turbulence. Lip-type ring provides a pressure seal and protection for metal-to-metal seating surfaces. Smaller and lighter than Fig. 600 unions and are recommended for manifold and truck mounting where size and weight are critical.

PRODUCT CODE	SIZE (inch)	LENGTH (inch)	NUT RADIUS (inch)	WEIGHT (kg)
HUF602025N	1"	3 17/32"	2 5/32"	1.59
HUF602032N	1 1/4"	4 29/32"	3 7/32"	4.54
HUF602040N	1 1/2"	4 29/32"	3 7/32"	4.10
HUF602050N	2"	5 1/4"	3 3/4"	5.90
HUF602080N	3"	6 1/4"	4 1/2"	10.45
HUF602100N	4"	8 1/4"	5 7/32"	15.00

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## FIGURE 1502

Recommended for air, water, oil, gas and mud service to 15,000 PSI NSCWP. This union has a replaceable lip-type seal ring of Buna-N specifically designed to minimize fluid flow turbulence. The lip-type ring also provides a pressure seal and protection for metal to metal seating surface and are recommended for manifold and truck mounting or other installations where high pressure is encountered.

PRODUCT CODE	SIZE (inch)	LENGTH (inch)	NUT RADIUS (inch)	WEIGHT (kg)
HUF1502025N	1"	4 3/8"	2 3/4"	3.82
HUF1502050N	2"	7"	4"	9.54
HUF1502080N	3"	7 5/8"	4 13/16"	14.10
HUF1502100N	4"	8 1/2"	6 1/6"	34.00
HUF1502125N	5"	9 7/64"	6 45/64"	44.40

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- Manufacturing Oil & Gas Industry Products
- Forging Production
- Precision Machining
- Flow Line Products
- Treating Iron



## SMI CATALOGUE



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**MANAGEMENT PRINCIPLE**

Enhanced quality and on-time delivery, offering the utmost customer satisfaction.

**QUALITY PRINCIPLE**

Customer satisfaction is the top priority. Supply the world best quality.

**QUALITY GOAL**

100% customer satisfaction achieving 100 ppm process.

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## THE PERFECT VALUE

### BEST INTERCHANGEABILITY

SMI Products are very interchangeable with all major brand products which are manufactured in accordance with API regulations.

### BEST LEAD TIME AND OPTIMIZED STOCK SYSTEM

SMI assures the shortest lead time in the world based on the optimized stock system. We need only 2-week lead time from Purchase Order to shipment for standard products.

### ACCUMULATION OF ADVANCED TECHNOLOGIES AND SAFETY

We have our own bending solution for high pressure Swivel Joint, and Advanced production system for Integral Pup Joint. We do 100% Pressure Test and provide Test Certificates in accordance with API and customer's requirements.

### CERTIFIED QUALITY MANAGEMENT

SMI manages quality in accordance with API Q1 and ISO 9001:2008 and educates all staffs according to SMI's own training plan. SMI used only the best quality material supplied by the certified steel manufacturer and the manufacturing process for each product is completed in one place so that SMI can easily trace the product manufacturing history, prove and show the traceability by documents that we offer.

### FOR BETTER QUALITY

Through all our effort to continuous quality improvement, we gave and give and will give the utmost satisfaction to our customers.

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## CERTIFICATES



API 6A-1064



API 16A-0497



ISO 9001:2008



ABS Type Approval



ABS Manufacturing Assessment



ISO 14001 : 2004



RINA Type Approval



Achilles JQS



AEO

## MANIFOLD



**MANIFOLD - 5 VALVES AND, 2 ADJUSTABLE CHOKE VALVES**

- Cement Manifolds
- Choke Manifolds
- Choke and Kill Manifolds
- Flowback Manifolds
- Well Testing Manifolds



**2 1/16" CHOKE & KILL MANIFOLD (10,000 PSI)**

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## MANIFOLD

SMI Manifolds are designed and manufactured to meet customer's requirements such as 4, 7, 8 or 9 Valve Manifold.

---

### SMI OFFER A WIDE RANGE OF HAMMER UNION ENDED EQUIPMENTS

- Plug Valves, Adjustable Chokes, Positive Chokes, Forged Tees, Crosses, Laterals, Crossovers, etc.
  - API 6A flanged end equipments.
- Pressure Tested Assembly
  - Individually Pressure Tested Fittings and Valves
  - Full Material Traceability
  - Standard and H<sub>2</sub>S service
  - API 6A PSL 1, 2 and 3
  - ALL API 6A Material Class Available
  - Temperature Rating P to U
  - Third Party Approval and Certificates on Design and Manufacturing Available
  - Skid Mounted if required

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## PLUG VALVE



- Standard service is used up to 15,000psi and tested at 22,500psi
- H<sub>2</sub>S service is used up to 10,000psi and tested at 15,000psi
- Rugged Construction with Forged Alloy Steel Body
- Reliable Performance at high working pressure
- Bottom Entry design, Top Entry design, Easy Maintenance
- Valve Parts are Interchangeable with most major designs
- Suitable for variety of high pressure applications such as fracturing, cementing, acidizing and etc.
- Each valve is serialized
- MTR and Test Report are available at any time.

### PLUG VALVE COMPOSITION



NO	ITEM	PART NUMBER				Q'TY
		2"*1"	2"*2"	3"*3"	4"*4"	
Ass'y	Plugvalve 1502 Handle Type	P21f1101	P22f1101	P33f1101	P44f1101g (Gear Box)	-
1	Cap Screw	P21FRK108	P22FRK108	P22FRK108	P44FRK108	1
2	Flat Washer 1	P21FRK112	P22FRK112	P22FRK112	P44FRK112	1
3	Flat Washer 2	P21FRK107	P22FRK107	P22FRK107	P44FRK107	1
4	Handle Adapter	P21FRK109	P22FRK109	P22FRK109	-	-
5	Stop Bolt	P21FRK114	P22FRK114	P22FRK114	-	-
6	Stop Collar	-	P22FRK111	P22FRK111	-	-
7	Grease Fitting	GF0301101	GF0301101	GF0301101	GF0301101	1*
8	Body	P21FRK106	P22FRK106	P33FRK106	P44FRK106	1
9	Wing Nut	HU02JRK104	HU02JRK104	HU03JRK104	HU04JRK104	1
10	Segment	HU02JRK113	HU02JRK113	HU03JRK113	HU04JRK113	3
11	Retainer Ring	HU02JRK114	HU02JRK114	HU03JRK114	HU04JRK114	1
12	Lip Seal	HU02JRK115	HU02JRK115	HU03JRK115	HU04JRK115	1
13	Plug Seal	P21FRK118	P22FRK118	P22FRK118	P44FRK118	2
14	Plug	P21FRK116	P22FRK116	P33FRK116	P44FRK116	1
15	Roll Pin	P22FRK119	P22FRK119	P22FRK119	P44FRK119	2
16	Insert P21	FRK120	P22FRK120	P33FRK120	P44FRK120	2
17	Insert O-ring	P21FRK115	P22FRK115	P33FRK115	P44FRK115	2
18	Adjusting Nut O-ring	P21FRK117	P22FRK117	P33FRK117	P44FRK117	1
19	Adjusting Nut	P21FRK113	P22FRK113	P33FRK113	P44FRK113	1

- Two(2) Grease Fittings for 4" Valve

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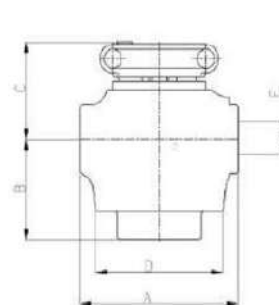
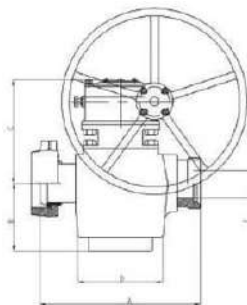
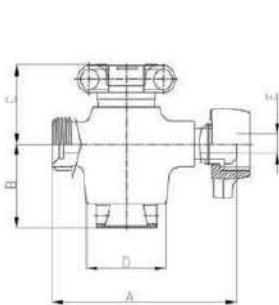
## PLUG VALVE



### PLUG VALVE REPAIR KIT COMPOSITION

NO	ITEM	PART NO.				Q'TY
		2"×1"	2"×2"	3"×3"	4"×4"	
-	Repair kit Set	P21FRK130	P22FRK130	P33FRK130	P44FRK130	-
13	Plug Seal	P21FRK118	P22FRK118	P22FRK118	P44FRK118	2
14	Plug	P21FRK116	P22FRK116	P33FRK116	P44FRK116	1
16	Insert	P21FRK120	P22FRK120	P33FRK120	P44FRK120	2
17	Insert O-ring	P21FRK115	P22FRK115	P33FRK115	P44FRK115	2
18	Adjusting Nut O-ring	P21FRK117	P22FRK117	P33FRK117	P44FRK117	1

- Seal Kit Contains No. 13, 17 and 18.



#### PLUG VALVE HANDLE TYPE

- Union End Connection
- 2"×1", 2×2", 3"×3"
- Integral 1502 Union M×F

#### PLUG VALVE GEAR TYPE

- Union End Connection
- 2"×2", 3"×3", 4"×4"
- Integral 1502 Union M×F
- CWP 15,000psi
- Test Pressure 22,500psi
- Standard Service

#### PLUG VALVE HANDLE LP THREAD

- Line Pipe Connection
- 2"×1", 2"×2", 3"×3"
- Female thread
- CWP 10,000psi
- Test Pressure 15,000psi
- Standard Service

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## PLUG VALVE

SIZE	END CONNECTION	SERVICE	WORKING PRESSURE	TEST PRESSURE	OPERATION TYPE	DIMENSIONS (INCH)				
						A	B	C	D	E
2x1	1502 MxF	Standard	15,000	22,500	Handle	10.53	4.74	4.50	4.50	1.00
		H <sub>2</sub> S	10,000	15,000						
2x2	1502 MxF	LP Thread	10,000	15,000	Handle	8.50	5.41	5.25	6.85	2.05
		Standard	15,000	22,500						
		H <sub>2</sub> S	10,000	15,000						
3x3	1502 MxF	Standard	15,000	22,500	Gear	17.00	7.20	-	9.06	3.05
		H <sub>2</sub> S	10,000	15,000	Handle			10.95		
4x4	1502 MxF	Standard	15,000	22,500	Gear	21.0	7.69	13.24	11.17	3.75
		H <sub>2</sub> S	10,000	15,000						

- Each size can be changed as customer's requirements.

## CHOKE VALVE



Choke Valve 2" 1502 Positive



Choke Valve 2" 1502 Adjustable



Choke Valve 3" 1502 Adjustable

- 2" Fig 1502 MxF with 3/4" or 1" Orifice and 3" Fig 1502 MxF with 2" Orifice
- Standard service is used up to 15,000psi and tested at 22,500psi
- H<sub>2</sub>S service is used up to 10,000psi and tested at 15,000psi
- Hammer Union End Connection
- Forged alloy steel body, stainless steel and tungsten carbide parts
- Parts are interchangeable with major brands.
- Suitable for a broad range of applications including wellheads, well testing, stream injection, choke and kill manifolds and well clean operations, etc.

# CHOKE VALVE



Positive Choke Valve



## 2" POSITIVE CHOKE VALVE COMPOSITION

NO	ITEM	PART NUMBER 2"x2"	Q'TY
Ass'y	Positive Choke Valve 1502	CV02F2101	1
14	Wing Nut	HU02JRK104	3
15	Lip Seal	HU02JRK115	3
16	Choke Body	CV02FRK181	1
17	Plug Stem	CV02FRK147	1
18	Stem Cap	CV02FRK120	1
19	Retainer Ring	HU02JRK114	2
20	Segment	HU02JRK113	6
24	Choke Bean	CV02FRK151	1
22	Choke Saver	CV02FRK122	1
25	Blind Male Sub	HU02JRK109	1

## 2" POSITIVE CHOKE VALVE REPAIR KIT COMPOSITION

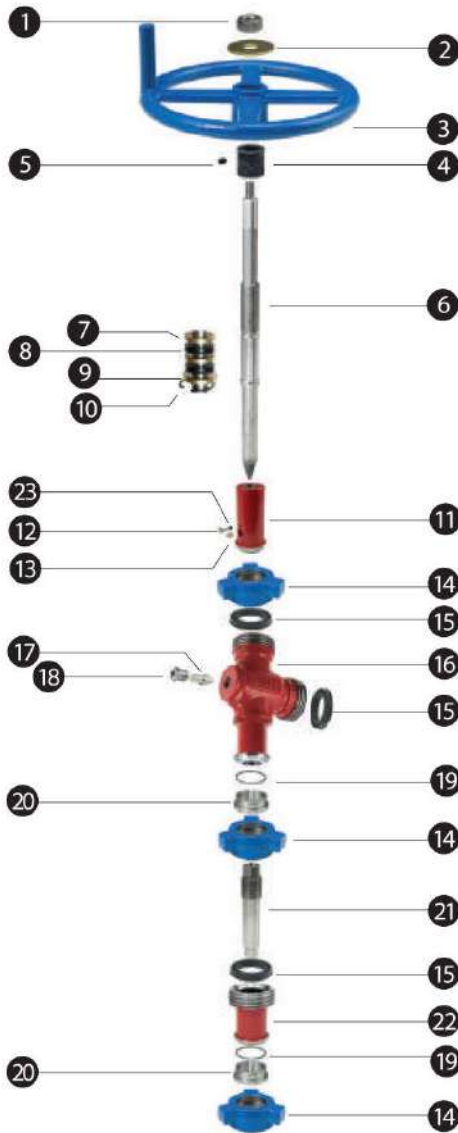
NO	ITEM	PART NO. 2"*2"	Q'TY
24	Choke Bean	CV02FRK151	1



## 2" CHOKE VALVE



Adjustable Choke Valve



### 2" ADJUSTABLE CHOKE VALVE COMPOSITION

NO	ITEM	PART NO. 2"×2"	Q'TY
Ass'y	Adjustable Choke Valve	CV02F11011	1
1	Stem Nut	CV02FRK106	1
2	Washer	CV02FRK107	1
3	Hand Wheel	CV02FRK108	1
4	Indicator	CV02FRK109	1
5	Lock Screw	CV02FRK110	1
6	Choke Stem	CV02FRK111	1
7	Stem Guide	CV02FRK112	2
8	Stem Seal	CV02FRK113	2
9	Junk Ring	CV02FRK114	1
10	Snap Ring	CV02FRK115	1
11	Choke Bonnet	CV02FRK116	1
12	Thumb Screw	CV02FRK117	1
13	Grease Fitting	CV02FRK129	1
14	Wing Nut	HU02JRK104	3
15	Lip Seal	HU02JRK115	3
16	Choke Body	CV02FRK118	1
17	Plug Stem	CV02FRK147	1
18	Stem Cap	CV02FRK120	1
19	Retainer Ring	HU02JRK114	2
20	Segment	HU02JRK113	6
21	Choke Seat 3/4" HL	CV02FRK130	1
22	Choke Saver	CV02FRK122	1

### 2" ADJUSTABLE CHOKE VALVE REPAIR KIT COMPOSITION

NO	ITEM	PART NO. 2"×2"	Q'TY
-	Repair Kit Set	CV02FRK1521	-
6	Choke Stem	CV02FRK111	1
7	Stem Guide	CV02FRK112	2
8	Stem Seal	CV02FRK113	2
9	Junk Ring	CV02FRK114	1
10	Snap Ring	CV02FRK115	1
21	Choke Seat 3/4" HL	CV02FRK130	1

· Seat size can be changed as customer's requirements.



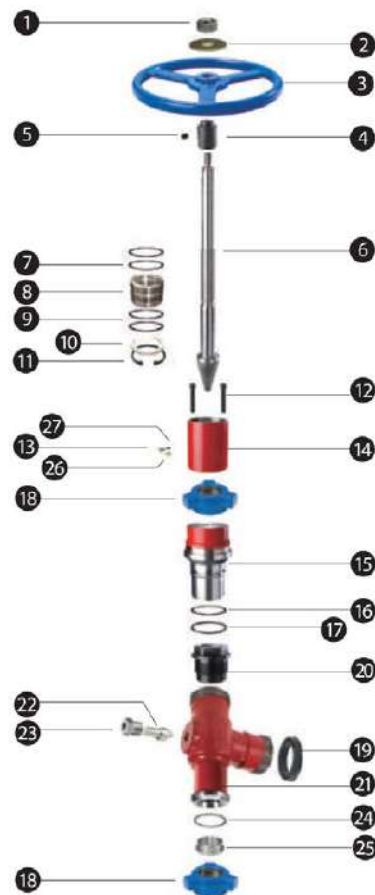
## 3" CHOKE VALVE



Adjustable Choke Valve

### 3" ADJUSTABLE CHOKE VALVE COMPOSITION

NO	ITEM	PART NO. 2"*2"	Q'TY
Ass'y	Adjustable Choke Valve 1502	CV03F1101	1
1	Stem Nut	CV03FRK106	1
2	Washer	CV03FRK107	1
3	Hand Wheel	CV03FRK108	1
4	Indicator	CV03FRK146	1
5	Lock Screw	CV03FRK110	1
6	Choke Stem	CV03FRK111	1
7	Outsider O-ring	CV03FRK123	2
8	Seal Piston	CV03FRK125	1
9	Inside O-ring	CV03FRK124	2
10	Stem Seal	CV03FRK113	1
11	Snap Ring	CV03FRK115	1
12	Bonnet Bolt	CV03FRK144	2
13	Thumb Screw	CV03FRK117	1
14	Bonnet Extension	CV03FRK126	1
15	Choke Bonnet	CV03FRK116	1
16	Bonnet O-ring	CV03FRK127	1
17	Bonnet Back Up Ring	CV03FRK145	1
18	Wing Nut	HU03JRK104	2
19	Lip Seal	HU03JRK115	1
20	Choke Seat	CV03FRK135	1
21	Choke Body	CV03FRK118	1
22	Plug Stem	CV03FRK147	1
23	Stem Cap	CV03FRK120	1
24	Retainer Ring	HU03JRK114	1
25	Segment	HU03JRK113	3
26	Grease Fitting	CV02FRK129	1
27	Lock Plug	CV02FRK134	1



### 3" ADJUSTABLE CHOKE VALVE REPAIR KIT COMPOSITION

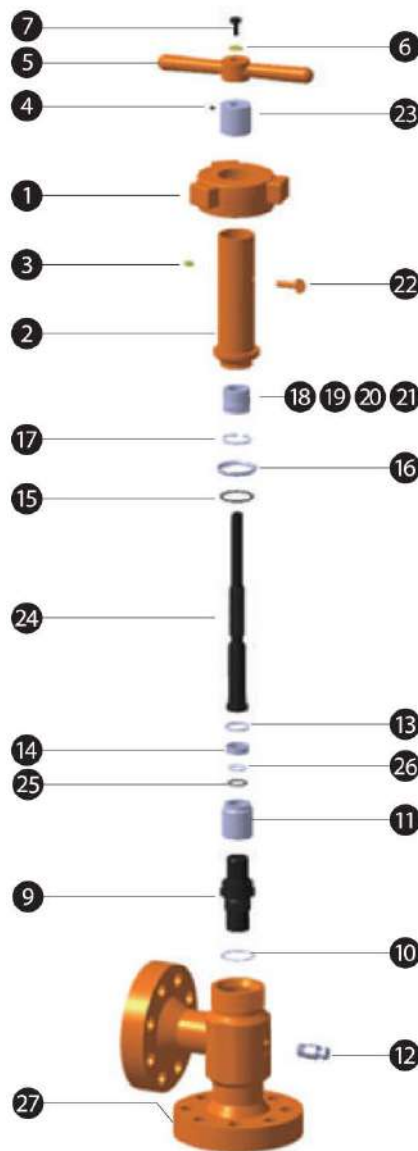
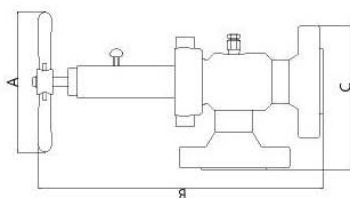
NO	ITEM	PART NO. 3"*3"	Q'TY
-	Repair Kit Set	CV03FRK152	-
6	Chock Stem	CV03FRK111	1
7	Outsider O-ring	CV03FRK123	2
8	Seal Piston	CV03FRK125	1
9	Inside O-ring	CV03FRK124	2
10	Stem Seal	CV03FRK113	1
11	Snap Ring	CV03FRK115	1
16	Bonnet O-ring	CV03FRK127	1
17	Bonnet Back Up Ring	CV03FRK145	1
20	Choke Seat	CV03FRK135	1

# PRODUCTION CHOKE

- Production chokes including our high performance cage and sleeve and needle and seat designs.

## Features and Benefits:

- Field convertible from positive to adjustable.
- A variety of configurations, trim and sizing options.
- Options for materials, bolting dimensions, end connections.
- Valve Parts are Interchangeable with most major designs.
- MTR and Test Reports are available at any time.



## 2 1/16" FLANGE CHOKE VALVE

NO	ITEM	PART NO. 2 1/16"	Q'TY
Ass'y	Flange Choke Valve	FC11D12A1	-
1	Wing Nut	FC11DRK101	1
2	Bonnet	FC11DRK102	1
3	Grease Fittings	FC11DRK103	1
4	Set Screw	FC11DRK104	1
5	Handle	FC11DRK105	1
6	Washer	FC11DRK106	1
7	Bolt	FC11DRK107	1
8	Cap	FC11DRK108	1
9	Seat	FC11DRK109	1
10	Washer	FC11DRK110	1
11	Seat Cap	FC11DRK111	1
12	Drain Valve	FC11DRK112	1
13	Retainer Ring	FC11DRK113	2
14	Stem Insert	FC11DRK114	2
15	Spring Ring	FC11DRK115	1
16	Joint Ring	FC11DRK116	1
17	Sanp Ring	FC11DRK117	1
18	Seal Cover 2	FC11DRK118	1
19	Seal	FC11DRK119	1
20	Seal Bracket	FC11DRK120	1
21	Seal Cover 1	FC11DRK121	1
22	Lock Bolt	FC11DRK122	1
23	Indicator	FC11DRK123	1
24	Stem	FC11DRK124	1
25	O-Ring	FC11DRK125	1
26	Back-UP-O-Ring	FC11DRK126	1
27	Body	FC11DRK127	1

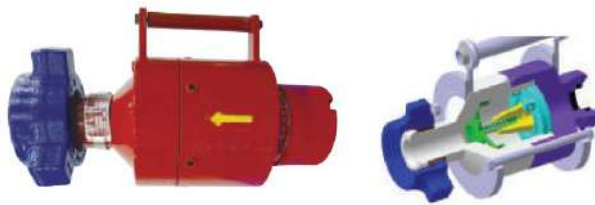
SIZE	SERVICE	WORKING PRESSURE	PRESSURE CLASS	END CONNECTION	A	B	C	WEIGHT	PART NO.
2 1/16	Standard / H <sub>2</sub> S	3,750	# 1,500	5K 21 / 16Flange	267.8	547.4	277.4	41.7kg	FC11D12A1

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## CHECK VALVE



Swing Check Valve



Dart Check Valve



In-Line Flapper Check Valve

### FEATURES/BENEFITS:

- Check Valves are flow control devices that permit flow in one direction but stop flow in The opposite direction.
- Generally used in well service applications, the check valve is placed in the treating line to allow flow to the well but isolates any back flow upstream of the valve. This provides a safety device at various locations in the flow line and assures that pressure and fluid cannot backup into the manifold area or into the pumps, causing damage to equipment.
- The simplified Seat Cover and seat assembly has a minimum number of parts.
- For the sealing at Low Pressure, All Type Valves are consist of Stainless Steel Springs.
- API 6A Materials Classes and Temperature Classes are available.

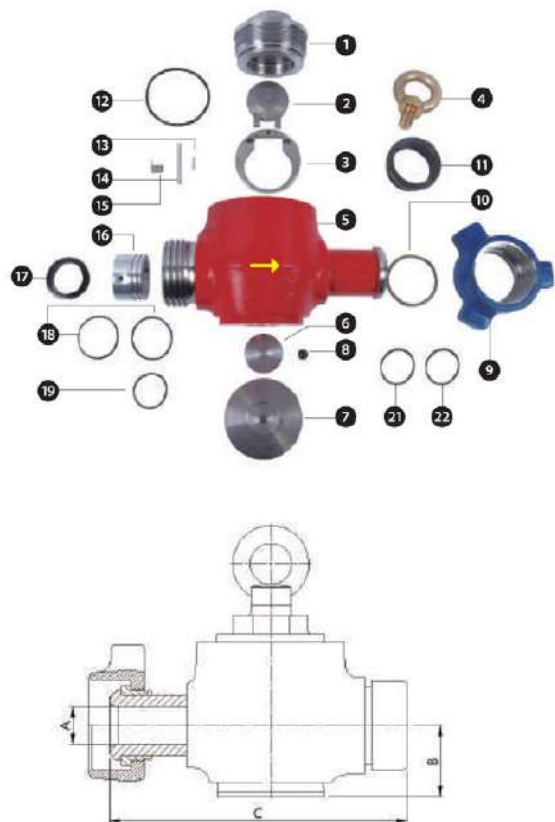
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## CHECK VALVE



- Standard Service is used up to 15,000psi and tested at 22,500psi.
- H<sub>2</sub>S Service is used up to 10,000psi and tested at 15,000psi.
- Reliable Performance at high working pressure.
- Valve Parts are Interchangeable with most major designs.
- Suitable for variety of high pressure applications such as fracturing, cementing, acidizing and etc.
- MTR and Test Reports are available at any time.

### 2" SWING TYPE CHECK VALVE



NO	ITEM	PART NO. 2 1/16"	Q'TY
Ass'y	Check Valve 1502 Swing Type	CH02F1101	1
1	Body Cap	CH02FRK106	1
2	Seat Cover	CH02FRK107	1
3	Seat Cover Body	CH02FRK108	1
4	I-Bolt	CH02FRK109	1
5	Body	CH02FRK110	1
6	Plug	CH02FRK111	1
7	Plug Cap	CH02FRK112	1
8	Cap Screw	CH02FRK113	1
9	Wing Nut	HU02JRK104	1
10	Retainer Ring	HU02JRK114	1
11	Segment	HU02JRK113	3
12	Body Cap O-ring	CH02FRK114	1
13	Seat Pin	CH02FRK115	1
14	Seat Cover Pin	CH02FRK116	1
15	Spring	CH02FRK117	1
16	Seat	CH02FRK118	1
17	Lip Seal	HU02JRK115	1
18	Seat O-ring A	CH02FRK119	2
19	Seat O-ring B	CH02FRK120	1
21	Plug O-ring A	CH02FRK122	1
22	Plug O-ring B	CH02FRK123	1

SIZE	SERVICE	WORKING PRESSURE	TEST PRESSURE	TYPE	A	B	WEIGHT	PART NO.
2"	Standard	15,000	22,500	Swing	1.75	3.327	83	CH02F1101
2"	H <sub>2</sub> S	10,000	15,000	Swing	1.75	3.327	83	CH02F1201

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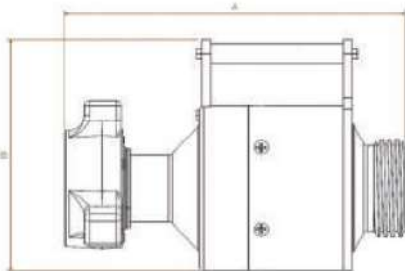
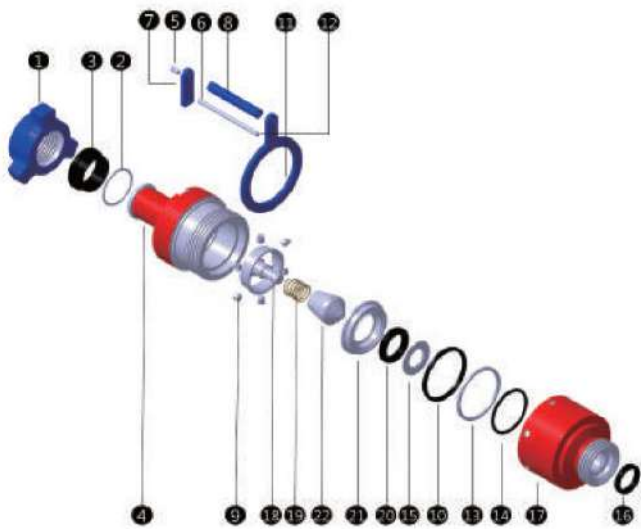


## CHECK VALVE



- Standard service is used up to 15,000psi and tested at 22,500psi.
- H2S Service is used up to 10,000psi and tested at 15,000psi.
- Reliable Performance at high working pressure.
- Valve Parts are Interchangeable with most major designs.
- Suitable for variety of high pressure applications such as fracturing, cementing, acidizing and etc.
- MTR and Test Reports are available at any time.

### 2" DART TYPE CHECK VALVE



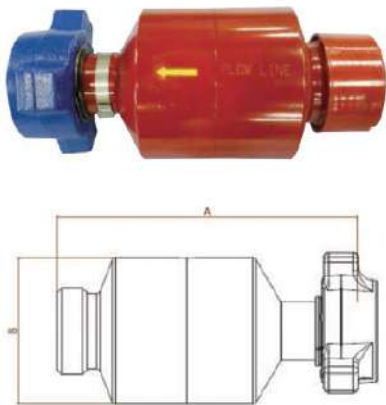
NO	ITEM	PART NO. 2 1/16"	Q'TY
Ass'y	Check Valve 1502 Dart Type	CD02F1101	1
1	Wing Nut	HU02JRK104	1
2	Retainer Ring	HU02JRK114	1
3	Segments	HU02JRK113	3
4	Male Body	CD02FRK106	1
5	Bolt	CD02FRK108	1
6	Handle Nut	CD02FRK109	2
7	Plate, Male Body	CD02FRK110	1
8	Handle	CD02FRK107	1
9	Set Screw	CD02FRK111	6
10	Seal Male Body	CD02FRK112	1
11	Female Bracket	CD02FRK113	1
12	Handle Bolt	CD02FRK114	1
13	Spacer	CD02FRK115	1
14	O-ring Seat	CD02FRK116	1
15	Seat Retainer Ring	CD02FRK117	1
16	Lip Seal	HU02JRK115	1
17	Female Body	CD02FRK118	1
18	Stem	CD02FRK121	1
19	Spring	CD02FRK123	1
20	Molded Seal	CD02FRK124	1
21	Seat	CD02FRK125	1
22	Dart Head	CD02FRK126	1

SIZE	SERVICE	WORKING PRESSURE	TEST PRESSURE	TYPE	A	B	WEIGHT	PART NUMBER
2"	Standard	15,000	22,500	1502 MxF	14.04"	9.813"	3.75kg	CD02F1101
3"	Standard	15,000	22,500	1502 MxF	-	-	-	CD03F1101

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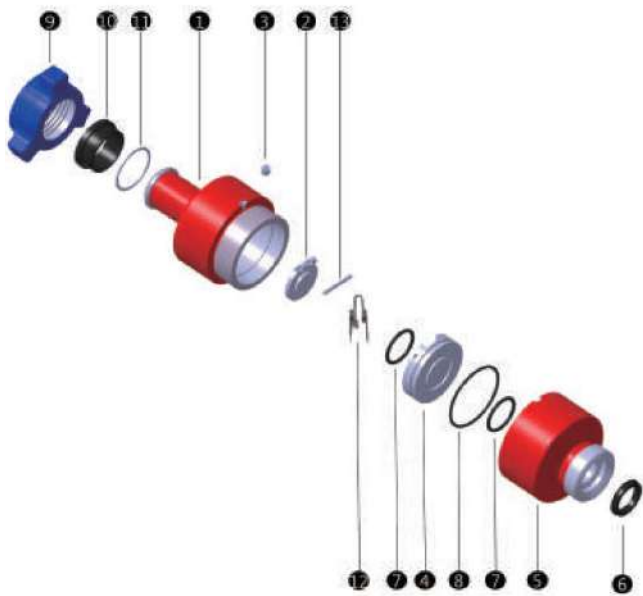


## CHECK VALVE



- Standard service is used up to 15,000psi and tested at 22,500psi.
- H2S Service is used up to 10,000psi and tested at 15,000psi.
- Reliable Performance at high working pressure.
- Valve Parts are Interchangeable with most major designs.
- Suitable for variety of high pressure applications such as fracturing, cementing, acidizing and etc.
- MTR and Test Reports are available at any time.

### 2" IN-LINE FLAPPER TYPE CHECK VALVE



NO	ITEM	PART NO. 2 1/16"	Q'TY
Ass'y	Check Valve 1502 Flapper Type	CF02F1101	1
1	Male Body	CF02FRK101	1
2	Seat Cover	CF02FRK111	1
3	Flush Bolt	CF02FRK103	2
4	Seat	CF02FRK104	1
5	Female Body	CF02FRK105	1
6	Lip Seal	HU02JRK115	1
7	O-Ring-1(2-332)	CF02FRK106	2
8	O-Ring-2(2-350)	CF02FRK107	1
9	Wing Nut	HU02JRK104	1
10	Segments	HU02JRK113	3
11	Retainer Ring	HU02JRK114	1
12	Torsion Spring	CF02FRK108	1
13	Seat Cover Pin	CF02FRK109	1
14	Seat Pin	CF02FRK110	1

SIZE	SERVICE	WORKING PRESSURE	TEST PRESSURE	TYPE	A	B	WEIGHT	PART NO.
2"	Standard	15,000	22,500	1502 MxF	14.04"	7"	37kg	CF02F1101
3"	Standard	15,000	22,500	1502 MxF	15.67"	8.11"	57.76kg	CF03F1101



# GATE VALVE

## E TYPE GATE VALVE

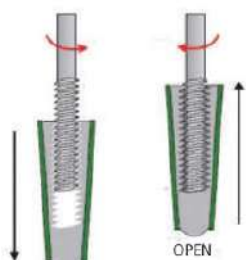


Rising Stem  
Gate Valve

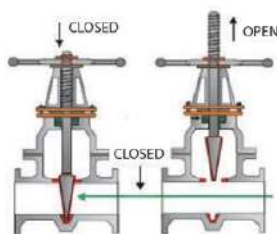
Non-Rising Stem  
Gate Valve

- **API 6A** - Specification for Wellhead and Christmas Tree Equipment
- **API 14D** - Specification for Wellhead Surface Safety Valves and Underwater Safety Valves for Offshore Service
- **ANSI B31.3** - Chemical Plant and Petroleum Refinery Piping
- **ASME VIII** - Boiler and Pressure Vessel Code
- **ASS-SP-22** - Quality Standard for Steel Castings for Valve, Flanges and Fittings and Other Piping Components
- **NACE MR-01-75** - Sulphide Stress Cracking Resistant Metallic Materials for Oilfield Equipment

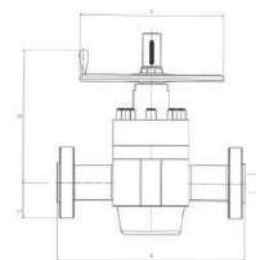
## TYPE OF STEM



Non-Rising



Stem Rising Stem



## FLANGED 10,000 PSI WORKING PRESSURE

Unit: (inch)

VALVE SIZE	A	B	C	D	E	API RING	WEIGHT (lbs)
2-1/16"	2.05	20.5	3.9	15.3	15.75	BX-152	329
3-1/16"	3.06	24.38	7.9	17.4	18.75	BX-154	518
4-1/16"	4.06	26.38	9.8	19.1	18.75	BX-155	1118

## FLANGED 15,000 PSI WORKING PRESSURE

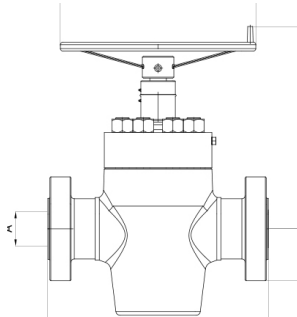
Unit: (inch)

VALVE SIZE	A	B	C	D	E	API RING	WEIGHT (lbs)
2-1/16"	2.05	19	4.1	15.5	17	BX-152	315
3-1/16"	3.06	23.56	9	17.4	18.75	BX-154	602

## GATE VALVE



FC Gate Valve



A : VALVE BORE SIZE  
B : FLANGE TO FLANGE  
C : RADIUS DIAMETER OF FLANGE  
D : BORE CENTERLINE TO TOP  
E : HANDWHEEL DIAMETER

### FC TYPE GATE VALVE

NO	ITEM	Q'TY	NO	ITEM	Q'TY
1	Handle Wheel	1	16	Bonnet Seal	1
2	Bearing Cap	1	17	Gate / Seat Assembly	1
3	Cap Grease Fitting	2	18	Stem	1
4	Cap O-Ring	1	19	Gate	1
5	Bearing Race	4	20	Retainer Plate	1
6	Thrust Bearing	2	21	Stem	2
7	Adapter O-Ring	1	22	Gate	2
8	Stem Pin	1	23	Retainer Plate	2
9	Packing Grand	1	24	Steat Ring	2
10	Stem Packing	1	25	Seat Seal Ring	1
11	Bonnet Nut	1	26	Name Plate	1
12	Bonnet Stud	8	27	Body Bushing Seal	2
13	Bonnet	8	28	Body Bushing	2
14	Check Valve	1	29	Guide	2
15	Body Grease Fitting	1			

### FLANGED 5,000 PSI WORKING PRESSURE

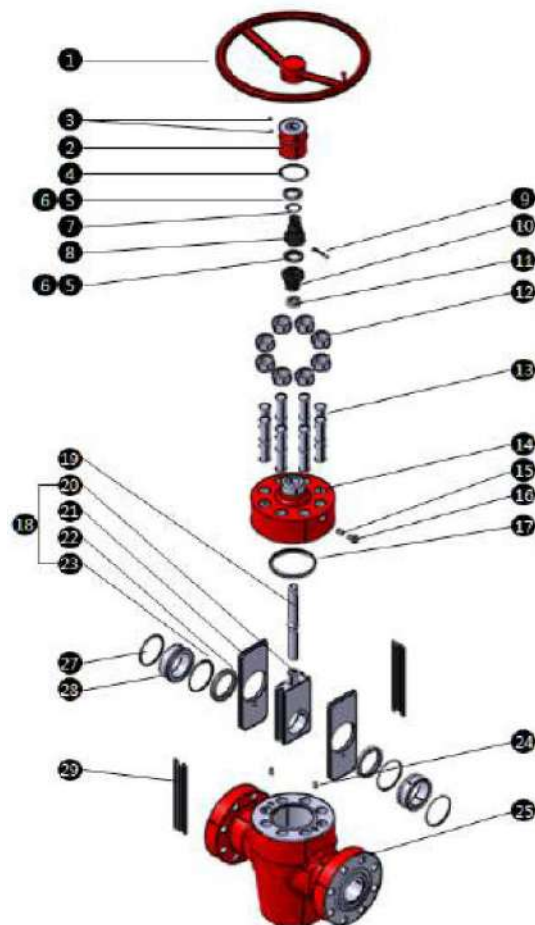
Unit: (inch)

VALVE SIZE	A	B	C	D	E	WEIGHT (kg)
2-1/16"	2.09	14.06	4.23	19.0	11.81	80.0
4-1/16"	4.28	21.61	6.10	22.39	18.50	256.0

### FLANGED 10,000 PSI WORKING PRESSURE

Unit: (inch)

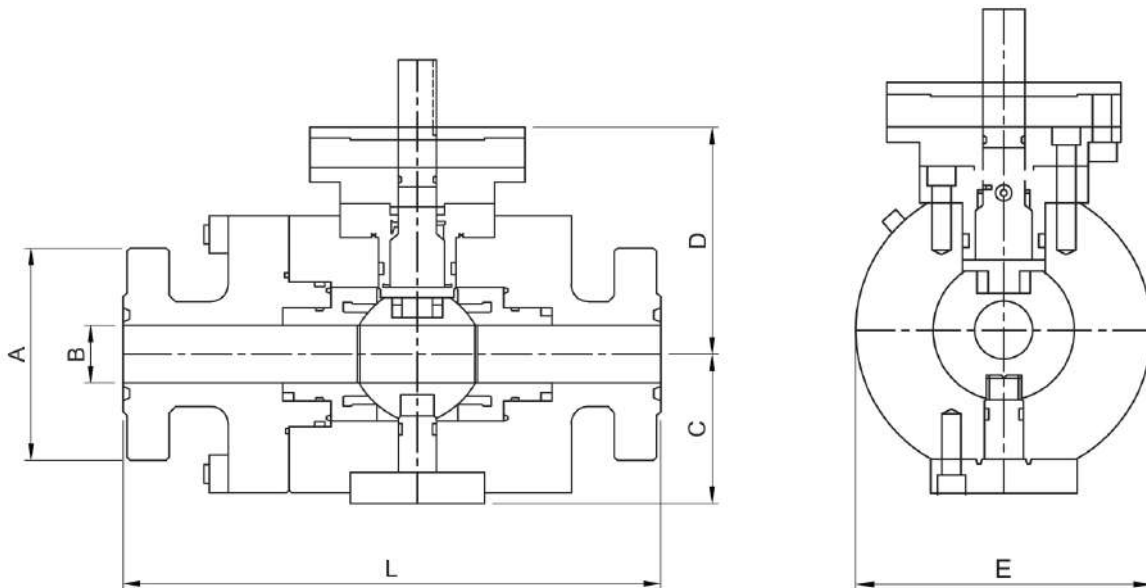
VALVE SIZE	A	B	C	D	E	WEIGHT (kg)
2-1/16"	2.09	20.51	3.94	19.0	11.81	119.0
3-1/16"	3.09	24.37	5.31	20.72	15.75	223.0
4-1/16"	4.09	26.38	6.20	23.71	18.5	378.0



## TRUNNION BALL VALVE



- API 6A Trunnion mounted ball valves made by AISI 4140
- Lip seals for high pressure sealing
- Metal rings for efficient fire safety



### 5,000 PSI

SIZE (inch/mm)	A (inch/mm)	B (inch/mm)	C (inch/mm)	D (inch/mm)	E (inch/mm)	L (inch/mm)	WEIGHT (lb/kg)	RING NUMBER RX
2 1/16(52)	8.50/216	2.06/52.4	5.22/132.5	5.69/145	8.50/216	14.6/371	340(154)	24
3 1/8(84)	10.5/267	3.12/79.3	8.74/222	6.22/158	10.5/267	10.5/267	571(259)	35

### 10,000 PSI

SIZE (inch/mm)	A (inch/mm)	B (inch/mm)	C (inch/mm)	D (inch/mm)	E (inch/mm)	L (inch/mm)	WEIGHT (lb/kg)	RING NUMBER RX
1 13/16(45)	7.4/188	1.82/46.2	5.00/127	6.77/172	7.68/195	18.27/464	209(95)	151
2 1/16(52)	7.9/200	2.06/52.4	5.75/146	8.62/219	10.47/266	20.51/521	437(198)	152

- Each size can be changed as customer's requirements.

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## SWIVEL JOINT (High Pressure)



- Size : 2" ~ 3"
- End Type : MxM, MxF
- Service : Standard(15,000psi), H<sub>2</sub>S(10,000psi)

### SWIVEL JOINT/ LONG RADIUS REPAIR KIT COMPOSITION

NO	ITEM	PART NO.		Q'TY	
		2"	3"	2"	3"
-	Repair Kit Set	S02FRK130	S03FRK130	-	-
1	Ball	S02FRK111	S02FRK111	72	93
2	Ball Plug	S02FRK114	S02FRK114	3	3
3	Ball Plug O-ring	S02FRK113	S02FRK113	3	3
4	Ball Plug Cover	S02FRK112	S02FRK112	3	3
5	Snap Ring	S02FRK115	S02FRK115	3	3
6	Pressure Seal	S02FRK116	S03FRK116	1	1
7	Grease O-ring (B)	S02FRK117	S03FRK117	1	1
8	Grease O-ring (M)	S02FRK118	S03FRK118	1	1

- Seal Kit Contains No. 6,7 and 8

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## SWIVEL JOINT (High Pressure)



Style 10 MM(MF)



Style 20 MF(MM)



Style 30 MF



Style 50 MF



Style 60 MM(MF)



Style 80 MF



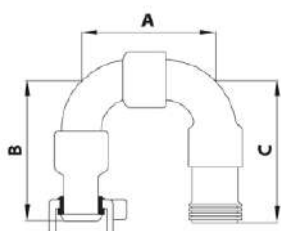
Style 100 MF(MM)

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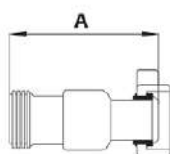
## SWIVEL JOINT (High Pressure)



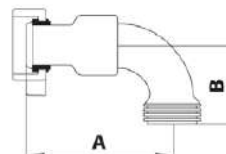
- Standard service is used up to 15,000psi and tested at 22,500psi.
- H<sub>2</sub>S Service is used up to 10,000psi and tested at 15,000psi.
- Forged Alloy Steel Elbows with Heat Treatment
- All Styles are available in nominal size 2" and 3" with 1502 Union End
- For High Pressure Applications - Fracturing, Cementing and Circulating
- Hoses, Acidizing, Choke and Kill Lines and Test Lines, etc.
- Each product is serialized MTR and Test Report are available at any time.



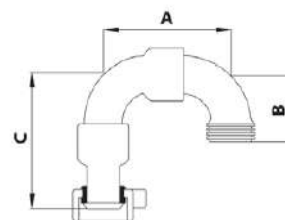
Style 10 MxF



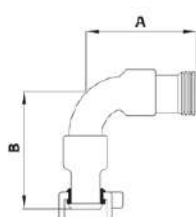
Style 20 MxF



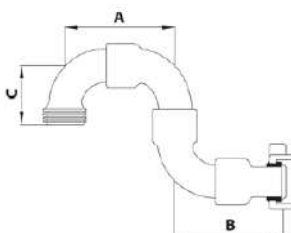
Style 30 MxF



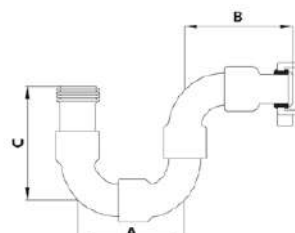
Style 50 MxF



Style 60 MxF



Style 80 MxF



Style 100 MxF

### SWIVEL JOINT / HIGH PRESSURE REPAIR KIT COMPOSITION

NO	ITEM	2 (inch)			PART NO.	2 (inch)			PART NO.
		A	B	C		A	B	C	
10	MxF	10.95	10.95	10.95	S02F011011	16.4	14.4	14.4	S03F011011
	MxM	10.95	10.95	10.95	S02F011012	16.4	14.4	14.4	S03F011012
20	MxF	10.95	-	-	S02F021011	12.4	-	-	S03F021011
30	MxF	10.95	5.5	-	S02F031011	14.4	7.9	-	S03F031011
50	MxF	10.95	5.5	10.95	S02F051011	16.4	7.9	14.4	S03F051011
60	MxF	10.95	10.86	-	S02F061011	14.4	14.4	-	S03F061011
80	MxF	10.95	5.5	10.95	S02F081011	16.4	14.4	14.4	S03F081011
100	MxF	10.95	10.95	10.86	S02F101011	16.4	14.4	14.4	S03F101011

- Each size can be changed as customer's requirements.

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## SWIVEL JOINT (Code Silver)



- Size : 2"
- End Type : customized
- Test Pressure : 9,000psi
- CWP : 6,000psi (413.68 bar)
- Service : Standard, H2S
- Used for Cementing, Drill Mud, Fracturing fluids, Well Servicing
- MTR and Test Report are offered at any time



Style 10



Style 20



Style 30



Style 40



Style 50



Style 60



Style 70



Style 80

### SWIVEL JOINT CODE SILVER REPAIR KIT COMPOSITION

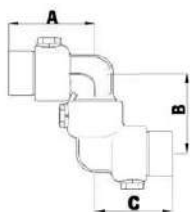
NO	ITEM	PART NO.	Q'TY
-	Repair Kit Set	S02DRK130	-
1	O-ring	S02DRK117	1
2	Pressure Seal	S02DRK116	1
3	Ball	S02DRK111	52
4	Nipple Nut O-ring	S02DRK120	1
5	Nipple Nut	S02DRK121	1
6	Grease Fitting	P22FRK36	1

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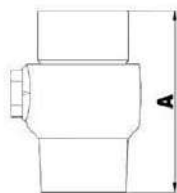
## SWIVEL JOINT (Code Silver)



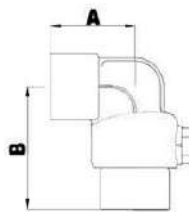
- 2" upto CWP 6,000psi with API Line Pipe Thread
- Suitable for Water Lines, Cementing Hoses
- Mud Lines, Choke and Kill Lines, Test Lines, etc.
- Female Thread End Connection
- Each product is serialized and pressure tested at 1.5 times of NSCWP.
- MTR and Test Report are available at any time.



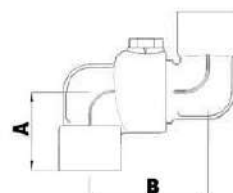
Style 10



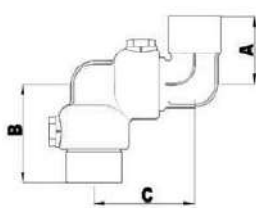
Style 20



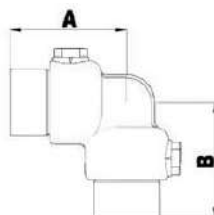
Style 30



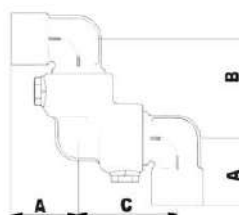
Style 40



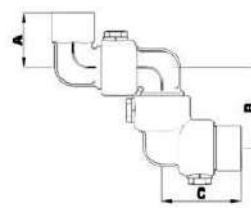
Style 50



Style 60



Style 70



Style 80

### SWIVEL JOINT SHORT RADIUS REPAIR KIT COMPOSITION

2 (INCH)							
STYLE	CWP (psi)	END CONNECTION	A	B	C	WT IB	PART NO.
10	6,000	Threaded	6.45	5.98	5.98	33.0	S02D011014
20	6,000	Threaded	6.65	-	-	11.9	S02D021014
30	6,000	Threaded	4	5.82	-	15.2	S02D031014
40	6,000	Threaded	4	5.98	-	19.7	S02D041014
50	6,000	Threaded	4	5.98	5.82	25.6	S02D051014
60	6,000	Threaded	5.82	5.82	-	21.1	S02D061014
70	6,000	Threaded	4	5.98	5.98	29.8	S02D071014
80	6,000	Threaded	4	5.98	5.82	37.1	S02D081014

- Each size can be changed as customer's requirements.

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## SWIVEL JOINT

(Code Blue & Code Green)



- Standard Service is used up to CWP 1000psi (Code Blue) & 600psi (Code Green)
- Casting Iron(Ductile) with Heat Treatment
- Low Pressure
- All Styles are available in nominal pipe size 2" and 3"
- Each product is serialized and Pressure Tested at 1.5times of NSCWP
- MTR and Test Report are available at any time
- Swivel Joint / Steel Hose Loop / Pup Joint
- 26



# SWIVEL JOINT

## (Code Blue & Code Green)

- 2" and 3" up to CWP 1000psi (Code Blue) & 600psi (Code Green)
- Suitable for Water Lines
- Female Thread End Connection
- Each Product is Serialized and Pressure Tested at 1.5times of NSCWP.
- MTR and Test Report are available at any tyue.

STYLE	CWP (psi)	PART NO.			
		CODE BLUE		CODE GREEN	
		2"	3"	2"	3"
	10	S02A011014	S03A011014	S02G011014	S03G011014
	20	S02A021014	S03A021014	S02G021014	S03G021014
	30	S02A031014	S03A031014	S02G031014	S03G031014
	40	S02A041014	S03A041014	S02G041014	S03G041014
	50	S02A051014	S03A051014	S02G051014	S03G051014
	60	S02A061014	S03A061014	S02G061014	S03G061014
	70	S02A071014	S03A071014	S02G071014	S03G071014
	80	S02A081014	S03A081014	S02G081014	S03G081014

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## STEEL HOSE LOOP



10,000psi & 15,000psi Hose



6,000psi Hose

- SMI Cementing Steel Hose Loops are available for 2" and 3" of nominal pipe sizes.
- Suitable for Cementing lines, Water lines, Well Testing Lines, etc.
- SMI Cementing Steel Hose Loops are available for Standard and H2S Service.
- Long Radius Cementing Steel Hose Loops are suitable for Pressures up to 15,000psi.
- Short Radius Cementing Steel Hose Loops are suitable for Pressures up to 6,000psi.
- Styles of SMI Cementing Steel Hose Loops are customized.

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## STEEL HOSE LOOP



SIZE	CWP (psi)	SWIVEL JOINT STYLES	PART NO.		
			8 ft	10 ft	12 ft
2"	15,000	High Pressure Style 50 & Style 10	ST2F110108	ST2F110110	ST2F110112
		High Pressure Style 50 & Style 50	ST2F210108	ST2F210110	ST2F210112
3"	15,000	High Pressure Style 50 & Style 10	ST3F110108	ST3F110110	ST3F110112
		High Pressure Style 50 & Style 50	ST3F210108	ST3F210110	ST3F210112

- Each size can be changed as customer's requirements.



SIZE	CWP (psi)	SWIVEL JOINT STYLES	PART NO.		
			8 ft	10 ft	12 ft
2"	6,000	Code Silver Style 50 & Style 10	ST2D110108	ST2D110110	ST2D110112
		Code Silver Style 50 & Style 50	ST2D210108	ST2D210110	ST2D210112

- Each size can be changed as customer's requirements.

## PUP JOINT



Fig 1502 NPST

- SMI Pup Joints are available for 2" and 3" of nominal pipe sizes for CWP 15,000psi
- 4" of nominal pipesize is available upon customer's request
- 15,000psi for Standard Service, 10,000psi for H2S Service

SIZE	UNION END	CWP (psi)	LENGTH							
2"	1502 MxF	15,000	1Ft	2Ft	3Ft	4Ft	5Ft	6Ft	8Ft	10Ft
	Part No.		PJ2F110101	PJ2F110102	PJ2F110103	PJ2F110104	PJ2F110105	PJ2F110106	PJ2F110108	PJ2F110110
	1502 MxF	15,000	12Ft	15Ft	20Ft	-	-	-	-	-
	Part No.		PJ2F110112	PJ2F110115	PJ2F110120	-	-	-	-	-
3"	1502 MxF	15,000	1Ft	2Ft	3Ft	4Ft	5Ft	1Ft	1Ft	1Ft
	Part No.		PJ3F110101	PJ3F110102	PJ3F110103	PJ3F110104	PJ3F110105	PJ3F110106	PJ3F110108	PJ3F110110
	1502 MxF	15,000	12Ft	15Ft	20Ft	-	-	-	-	-
	Part No.		PJ3F110112	PJ3F110115	PJ3F110120	-	-	-	-	-

- Each size can be changed as customer's requirements.



Fig 1502 Integral

SIZE	UNION END	CWP (PSI)	LENGTH							
2"	1502 MxF	15,000	1Ft	2Ft	3Ft	4Ft	5Ft	6Ft	8Ft	10Ft
	Part No.		PJ2F210101	PJ2F210102	PJ2F210103	PJ2F210104	PJ2F210105	PJ2F210106	PJ2F210108	PJ2F210110
3"	1502 MxF	15,000	1Ft	2Ft	3Ft	4Ft	5Ft	7Ft	8Ft	10Ft
	Part No.		PJ3F210101	PJ3F210102	PJ3F210103	PJ3F210104	PJ3F210105	PJ3F210106	PJ3F210108	PJ3F210110

- Each size can be changed as customer's requirements.

## INTEGRAL FITTINGS



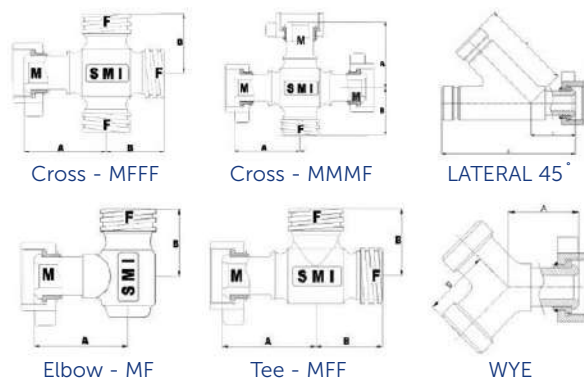
- SMI Fittings are available 2" and 3" nominal pipe sizes.
- For the 4" nominal pipe size items are customized.
- All Fittings are available for Standard and H2S service.



# INTEGRAL FITTINGS



- Wide range of fittings from Elbows to Swages with integral 1502 union end
- Standard CWP 15,000psi/TP 22,500psi and H2S service CWP 10,000psi/TP 15,000psi

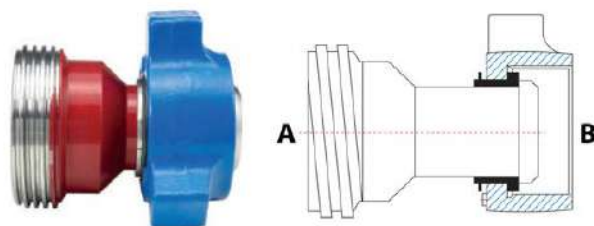


## End Connections Information

Unit: (inch)

WT.	END CONNECTION	SIZE	A	B	C	PART NO.
Elbow	Straight MF	2"	7	5	-	L02F11011
	Straight MF	3"	8	8	-	L03F11011
	Cushion MF	2"	7	5	-	L02F21011
	Cushion MF	3"	8	8	-	L03F21011
	Double Cushion MF	2"	7	5	-	L02F31011
	Double Cushion MF	3"	8	8	-	L03F31011
Tee	MFF	2"	7	5	-	TE02F1101
	MMF	2"	7	5	-	TE02F2101
	MFF	3"	8	8	-	TE03F1101
	MMF	3"	8	8	-	TE03F2101
Cross	MMMF	2"	7	5	-	CR02F1101
	FFFM	2"	7	5	-	CR02F2101
	MMMF	3"	8	8	-	CR03F1101
	FFFM	3"	8	8	-	CR03F2101
Lateral 45 degree	MFF	2"	10.5	15.75	5.25	LT02F1101
	MFF	3"	13.88	20.88	7	LT03F1101
WYE	MFF	2"	5.25	5	-	WY02F1101
	MFF	3"	7.75	7.75	-	WY03F1101

## ADAPTER (Crossover)



Union Thread x Union Nut

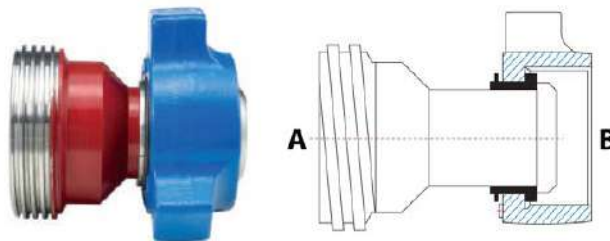
### END CONNECTIONS

NO.	A	B	WORKING PRESSURE (psi)	LENGTH (in)	ID (in)	SERVICE
1	1"-1002	2"-1502	10,000	6.00	1.00	Std
2	1"-1502	2"-1502	15,000	7.00	1.00	Std
3	1 ½"-1002	2"-1002	10,000	7.00	1.31	Std
4	1 ½"-1502	1 ½"-1502	10,000	5.75	1.34	Std
5	1 ½"-1502	1 ½"-1502	15,000	6.62	1.31	Std
6	1 ½"-1502	2"-1502	15,000	5.25	1.31	Std
7	2"-1502	1 ½"-1002	10,000	9.40	1.31	Std
8	2"-1502	1 ½"-1002	15,000	7.00	1.31	Std
9	2"-1502	2"-1502	15,000	6.62	1.87	Std
10	2"-1502	2"-2002	15,000	6.87	1.30	Std
11	2"-1502	2"-2202	10,000	6.87	1.30	H <sub>2</sub> S
12	2"-1502	3"-602	6,000	8.00	2.00	Std
13	2"-1502	3"-1502	10,000	8.00	2.00	H <sub>2</sub> S
14	2"-1502	3"-1502	15,000	8.00	2.00	Std
15	2"-1502	4"-602	6,000	7.00	2.00	Std
16	2"-1502	4"-1002	10,000	7.00	2.00	Std
17	2"-2002	2"-1502	15,000	8.00	1.30	Std
18	2"-2002	2"-2002	20,000	7.00	1.30	Std
19	2"-2002	3"-1502	15,000	5.00	1.30	Std
20	2"-2202	3"-1502	10,000	7.00	1.30	H <sub>2</sub> S
21	2"-2002	3"-1502	15,000	7.00	1.30	Std

- Each size can be changed as customer's requirements.

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## ADAPTER (Crossover)



Union Thread x Union Nut

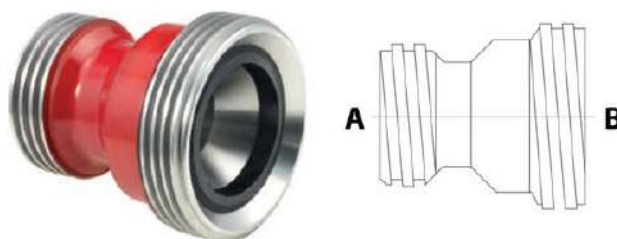
### END CONNECTIONS

NO.	A	B	WORKING PRESSURE (psi)	LENGTH (In)	ID (In)	SERVICE
1	3"-602	4"-602	6,000	8.00	3.00	Std
2	3"-602	3"-1502	6,000	6.00	3.00	Std
3	3"-1002	2"-1502	7,500	7.62	1.87	H <sub>2</sub> S
4	3"-1502	2"-1502	10,000	6.94	1.87	H <sub>2</sub> S
5	3"-1502	2"-1502	15,000	6.94	1.87	Std
6	3"-1502	3"-602	6,000	7.62	3.00	Std
7	3"-1502	2"-2002	15,000	7.75	1.30	Std
8	3"-1502	2"-2202	10,000	7.75	1.30	H <sub>2</sub> S
9	3"-1502	3"-1502	15,000	7.62	3.00	Std
10	3"-1502	4"-602	6,000	8.00	3.00	Std
11	3"-1502	4"-1002	10,000	8.00	3.00	Std
12	4"-602	3"-602	6,000	7.00	2.75	Std
13	4"-602	3"-1502	6,000	7.00	2.75	Std
14	4"-1002	3"-1502	10,000	6.75	3.00	Std
15	4"-1002	4"-602	6,000	12.00	4.00	Std
16	4"-1002	4"-1002	10,000	12.00	4.00	Std

- Each size can be changed as customer's requirements.

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## ADAPTER (Crossover)



Union Thread x Union Thread

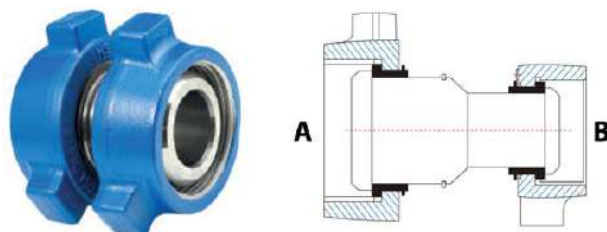
### END CONNECTIONS

NO.	A	B	WORKING PRESSURE (psi)	LENGTH (In)	ID (In)	SERVICE
1	1"-1502	1 ½"-1502	15,000	5.62	1.00	Std
2	1 ½"-1502	1 ½"-1502	15,000	5.62	1.31	Std
3	2"-1502	2"-1502	15,000	5.75	2.00	Std
4	2"-1502	2"-2002	15,000	6.00	1.30	Std
5	2"-1502	3"-1502	15,000	6.00	2.06	Std
6	2"-1502	3"-2202	10,000	6.00	2.00	H <sub>2</sub> S
7	2"-2002	2"-2002	20,000	8.20	1.30	Std
8	2"-2002	3"-1502	15,000	6.00	1.30	Std
9	2"-2202	2"-2202	15,000	8.20	1.30	H <sub>2</sub> S
10	3"-1502	3"-1502	15,000	5.75	3.00	Std
11	4"-602	4"-602	6,000	8.18	4.00	Std
12	4"-1002	4"-1002	10,000	5.75	4.00	Std

- Each size can be changed as customer's requirements.

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## ADAPTER (Crossover)



Union Nut x Union Nut

### END CONNECTIONS

NO.	A	B	WORKING PRESSURE (psi)	LENGTH (In)	ID (In)	SERVICE
1	1 ½"-1502	2"-1502	15,000	6.75	1.50	Std
2	2"-1002	2"-1502	10,000	6.75	1.87	Std
3	2"-1502	2"-1502	15,000	6.75	1.94	Std
4	2"-1502	2"-1502	10,000	6.75	1.94	H <sub>2</sub> S
5	2"-1502	2"-2002	15,000	8.00	1.30	Std
6	2"-1502	3"-1502	15,000	8.00	1.87	Std
7	2"-1502	3"-1502	10,000	8.00	1.87	H <sub>2</sub> S
8	2"-2002	2"-2002	20,000	7.50	1.30	Std
9	2"-2002	3"-1502	15,000	8.00	1.30	Std
10	2"-2202	2"-2202	15,000	7.50	1.30	H <sub>2</sub> S
11	3"-602	3"-602	6,000	6.0	3.00	Std
12	3"-1502	3"-1502	15,000	6.0	3.00	Std
13	3"-1502	3"-1502	10,000	12.00	2.75	H <sub>2</sub> S
14	4"-602	4"-602	6,000	12.00	4.00	Std
15	4"-1002	4"-1002	10,000	12.00	4.00	Std

- Each size can be changed as customer's requirements.

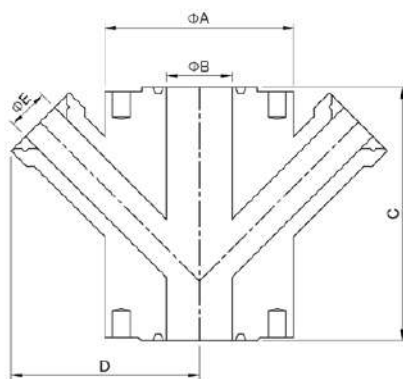
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## FRAC ADAPTER (Goat Head)



- 5 1/8" CWP 10,000psi, Tested at 15,000psi with Four 4"1002 Female Inlets
- Material : AISI 4135
- Hard faced on critical area
- 7 1/16" CWP 10,000psi, Tested at 15,000psi with Four 4"1002 Female Inlets
- Material : AISI 4135
- Hard faced on critical area



ITEM	A	B	C	D	E
5 1/8"	14.06	5.125	20	14.17	3.07
7 1/16"	18.88	7.063	22	16.54	3.07

- Each size can be changed as customer's requirements.

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## HAMMER UNION



Fig 100

Fig 200 / 206



Fig 400

Fig 602



Fig 1002

Fig 1502

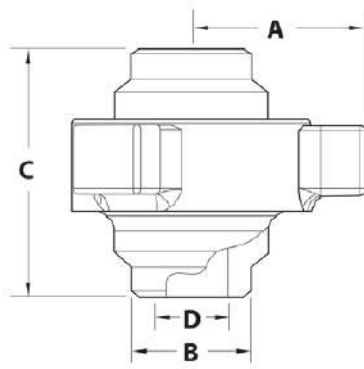


Fig 2202

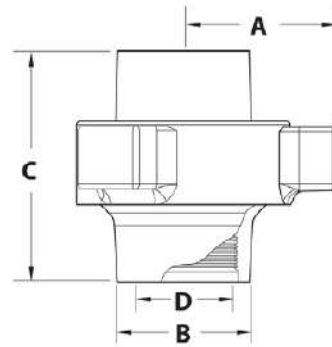
- SMI Hammer unions are manufactured by steel forgings using appropriate materials to specific pressure ratings.
- SMI Hammer unions are available in a choice of end connections. API line pipe threads are standard.
- Butt Weld End is available. Customer needs to specify schedule of pipe while ordering.
- H<sub>2</sub>S service is available and all H<sub>2</sub>S service parts of SMI unions conform to the latest NACE specifications.
- All SMI Hammer union components can be interchangeable with WECO on the same size and figure.
- All SMI Hammer union nuts have three hammer lugs.

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## HAMMER UNION



Butt Weld type



Thread type



Fig 100

DIM WT.	2" THD	3" THD	4" THD	6" THD	8" THD	10" THD	10" B/W
A	2 <sup>29</sup> / <sub>32</sub>	4	4 <sup>23</sup> / <sub>64</sub>	6 <sup>57</sup> / <sub>64</sub>	7 <sup>3</sup> / <sub>4</sub>	10 <sup>5</sup> / <sub>16</sub>	10 <sup>5</sup> / <sub>16</sub>
B	2 <sup>53</sup> / <sub>64</sub>	4 <sup>1</sup> / <sub>16</sub>	5 <sup>13</sup> / <sub>64</sub>	7 <sup>13</sup> / <sub>32</sub>	9 <sup>15</sup> / <sub>32</sub>	11 <sup>3</sup> / <sub>4</sub>	10 <sup>3</sup> / <sub>4</sub>
C	3 <sup>13</sup> / <sub>32</sub>	4 <sup>7</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>4</sub>	6 <sup>23</sup> / <sub>32</sub>	7 <sup>3</sup> / <sub>16</sub>	9 <sup>3</sup> / <sub>16</sub>	9 <sup>3</sup> / <sub>16</sub>
D	2 <sup>5</sup> / <sub>32</sub>	3 <sup>13</sup> / <sub>64</sub>	4 <sup>3</sup> / <sub>16</sub>	6 <sup>9</sup> / <sub>32</sub>	8 <sup>1</sup> / <sub>4</sub>	10	10
WT(lb)	5.73	14.2	19.36	45.06	71.56	105.82	108.56
P/N	HU02A1101	HU03A1101	HU04A1101	HU06A1101	HU08A1101	HU10A1101	HU10A5101

DIM WT.	1" THD	2" THD	2" B/W	3" THD	3" B/W	4" THD	4" B/W	6" THD	6" B/W	8" THD	10" THD	10" B/W
A	1 <sup>29</sup> / <sub>32</sub>	2 <sup>7</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	4	4	4 <sup>17</sup> / <sub>32</sub>	4 <sup>17</sup> / <sub>32</sub>	6 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>	10 <sup>5</sup> / <sub>16</sub>	10 <sup>5</sup> / <sub>16</sub>
B	1 <sup>19</sup> / <sub>32</sub>	2 <sup>53</sup> / <sub>64</sub>	2 <sup>3</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>2</sub>	5 <sup>13</sup> / <sub>64</sub>	4 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>2</sub>	6 <sup>5</sup> / <sub>8</sub>	9 <sup>15</sup> / <sub>32</sub>	11 <sup>3</sup> / <sub>4</sub>	10 <sup>3</sup> / <sub>4</sub>
C	2 <sup>13</sup> / <sub>32</sub>	3 <sup>13</sup> / <sub>32</sub>	3 <sup>17</sup> / <sub>64</sub>	4 <sup>35</sup> / <sub>64</sub>	4 <sup>41</sup> / <sub>64</sub>	4 <sup>15</sup> / <sub>16</sub>	5	6 <sup>21</sup> / <sub>32</sub>	6 <sup>1</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>16</sub>	9 <sup>3</sup> / <sub>16</sub>	9 <sup>3</sup> / <sub>16</sub>
D	1 <sup>1</sup> / <sub>8</sub>	2 <sup>9</sup> / <sub>32</sub>	2 <sup>5</sup> / <sub>64</sub>	3 <sup>13</sup> / <sub>64</sub>	3 <sup>9</sup> / <sub>64</sub>	4 <sup>3</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>32</sub>	6 <sup>9</sup> / <sub>32</sub>	6 <sup>5</sup> / <sub>64</sub>	8 <sup>1</sup> / <sub>4</sub>	10	10
WT(lb)	1.23	5.32	5.86	14.4	15.39	19.3	20.42	43.3	47.42	71.69	105.82	108.66
P/N	HU01B1101	HU02B1101	HU02B5101	HU03B1101	HU03B5101	HU04B1101	HU04B5101	HU06B1101	HU06B5101	HU08B1101	HU10B1101	HU10B5101



Fig 200 / 206



Fig 400

DIM WT.	2" THD	3" THD	4" THD
A	2 <sup>29</sup> / <sub>32</sub>	4	4 <sup>23</sup> / <sub>64</sub>
B	2 <sup>53</sup> / <sub>64</sub>	4 <sup>1</sup> / <sub>16</sub>	5 <sup>13</sup> / <sub>64</sub>
C	3 <sup>5</sup> / <sub>8</sub>	4 <sup>7</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>4</sub>
D	2 <sup>5</sup> / <sub>32</sub>	3 <sup>13</sup> / <sub>64</sub>	4 <sup>3</sup> / <sub>16</sub>
WT(lb)	11.2	20.15	29.59
P/N	HU02D1101	HU03D1101	HU04D1101

- Each size can be changed as customer's requirements.

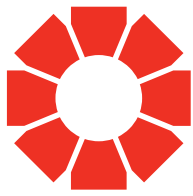


Fig 602



Fig 1002



Fig 1502



Fig 2202

FIG 602

DIM WT.	1"		2"		3"		4"	
	THD	B/W	THD	B/W	THD	B/W	THD	B/W
A	2 1/4	2 1/4	3 17/32	3 17/32	4 1/2	4 1/2	5 5/16	5 5/16
B	1 3/4	1 5/16	3	2 25/64	4 1/4	3 1/2	5 5/16	4 1/2
C	3 17/32	3 17/32	5 1/4	5 1/16	6 1/4	5 7/16	8 7/32	5 43/64
D	1 7/64	1 9/32	2 1/16	1 1/2	3 3/16	3 5/64	4 1/64	3 5/32
WT(lb)	3.8	3.57	12.6	13.9	25	26.4	37	35
P/N	HU01E1101	HU01E5101	HU02E1101	HU02E5101	HU03E1101	HU03E5101	HU04E1101	HU04E5101

FIG 1002

DIM WT.	1"		2"		3"		4"		5"
	THD	B/W	THD	B/W	THD	B/W	THD	B/W	B/W
A	2 1/4	2 29/32	3 17/32	3 17/32	4 1/2	4 1/2	5 5/16	6 3/16	6 3/16
B	1 3/4	2 53/64	3	2 25/64	4 1/4	3 1/2	5 5/16	5 7/64	4 7/64
C	3 17/32	2 29/32	5 1/4	5 1/16	6 1/4	5 7/16	8 7/32	6 3/16	6 3/16
D	1 7/64	2 53/64	2 1/16	1 15/16	3 3/16	3 5/64	4 1/64	4 13/16	4 13/16
WT(lb)	3.8	3.57	12.6	10.47	25.8	26.8	37.04	34.97	62.5
P/N	HU01F1101	HU01F5101	HU02F1101	HU02F5101	HU03F1101	HU03F5101	HU04F1101	HU04F5101	HU05F5101

FIG 1502

DIM WT.	1"		2"		3"		4"		5"	6"
	THD	B/W	THD	B/W	THD	B/W	THD	B/W	B/W	B/W
A	3 1/16	3 1/16	3 47/64	3 47/64	4 1/2	4 1/2	6 5/64	6 5/64	9	11
B	2 3/16	1 21/64	3 11/64	2 25/64	4 13/32	3 1/2	5 3/4	4 1/2	5 1/2	6 1/2
C	4 21/64	4 23/64	7 1/32	6 1/4	7 5/8	5 1/4	8 1/2	8 1/2	9	9 1/4
D	1 7/64	3/7	2 1/16	1 1/2	3 3/16	2 9/32	4 1/64	3 11/64	4 1/64	4 1/4
WT (lb)	9.5	9.26	19.5	20	32.1	30.42	74.52	78.1	50	67.8
P/N	HU01J1101	HU01J1101	HU01J1101	HU01J1101	HU03J1101	HU03J5101	HU04J1101	HU04J5101	HU05J5101	HU06J5101

FIG 2202

DIM WT.	2"	3"	5"	6"
	B/W	B/W	B/W	B/W
A	3 3/4	6 3/32	9 1/4	11 1/4
B	2 19/32	5 1/2	5 1/2	6 1/2
C	7 13/32	10 1/2	10 3/4	10
D	1 5/16	3	4 1/64	4 1/4
WT (lb)	25.53	91.27	55.2	74.7
P/N	HU02L5101	HU03L5101	HU05L5101	HU06L5101

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# HUB CLAMP

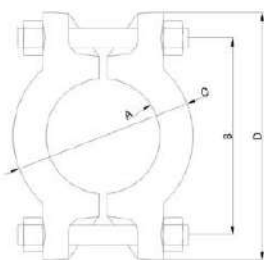
## SMILOCK HUB CLAMP COMPOSITION

NO	ITEM	Q'TY
1	Smilock Clamp	2
2	Stud Bolt (B7)	4
3	Nut (2H)	8
4	Smilock Hub	2
5	Gasket (PTFE Coated)	1

- SMILOCK Hub Clamps are made with appropriate forged materials to specific pressure ratings, and are made in accordance with API 16A Spec.
- Standard hub materials are A105 carbon steel and AISI 4130 Low alloy steel but they can be manufactured from other types of carbon, low alloy and stainless steels as per customer's requirement.



Compact Clamp - SMILOCK



Clamp



Seal

CLAMP SIZE	CLAMP ID (A)		BOLT CENTRES (B)		CLAMP OD (C)		OVERALL LENGTH (D)		CLAMPSET WEIGHT	
-	ins	mm	ins	mm	ins	mm	ins	mm	Lbs	Kg
1in	1.69	42.9	3.25	82.6	2.81	71.5	4.25	108.0	4.2	1.9
1-1/2in	2.69	68.2	5.00	127.0	4.50	114.3	6.50	165.1	9.9	4.5
2in	3.20	81.3	5.75	146.1	5.50	139.7	7.50	190.5	13.2	6.0
3in	4.38	111.1	7.50	190.5	6.88	174.6	9.25	235.0	23.6	10.7
4in	5.38	136.5	8.50	215.9	8.25	209.6	10.50	266.7	28.7	13.0
5in	6.88	174.6	10.25	260.4	9.88	250.8	12.38	314.3	41.0	18.6
6in	8.38	212.7	12.63	320.7	12.00	304.8	15.25	387.4	70.3	31.9

SEALRING SIZE	OUTSIDE DIAMETER (A)		INSIDE DIAMETER (B)		RIB THICKNESS (C)		OVERALL THICKNESS (D)		SEALRING WEIGHT	
-	ins	mm	ins	mm	ins	mm	ins	mm	lbs	kg
4	1.000	25.4	0.500	12.7	0.125	3.2	0.375	9.5	0.030	0.0
5	1.094	27.8	0.625	15.9	0.125	3.2	0.375	9.5	0.030	0.0
7	1.375	34.9	0.906	23.0	0.125	3.2	0.375	9.5	0.040	0.0
11	1.750	44.5	1.125	28.6	0.125	3.2	0.375	9.5	0.060	0.0
13	2.375	60.3	1.500	38.1	0.125	3.2	0.375	9.5	0.110	0.1
14	2.625	66.7	1.609	40.9	0.250	6.4	0.563	14.3	0.280	0.1
16	2.750	69.9	1.868	47.4	0.250	6.4	0.625	15.9	0.280	0.1
20	3.250	82.6	2.063	52.4	0.250	6.4	0.750	19.1	0.450	0.2
23	3.500	88.9	2.375	60.3	0.250	6.4	0.750	19.1	0.480	0.2
25	4.000	102.0	2.672	67.9	0.250	6.4	0.750	19.1	0.620	0.3
27	4.250	108.0	3.063	77.8	0.250	6.4	0.750	19.1	0.620	0.3
31	4.500	114.0	3.250	82.6	0.250	6.4	0.750	19.1	0.690	0.3
34	5.000	127.0	3.688	93.7	0.250	6.4	0.750	19.1	0.800	0.4
40	5.500	140.0	4.063	103.0	0.250	6.4	1.000	25.4	1.130	0.5
42	6.375	162.0	4.188	106.0	0.250	6.4	1.000	25.4	1.680	0.8
46	6.250	159.0	4.750	121.0	0.250	6.4	1.000	25.4	1.340	0.6
52	6.625	168.0	5.313	135.0	0.250	6.4	1.000	25.4	1.330	0.6
54	6.812	173.0	5.500	140.0	0.250	6.4	1.000	25.4	1.570	0.7
56	7.500	191.0	5.750	146.0	0.250	6.4	1.000	25.4	1.820	0.8
62	7.875	200.0	6.065	154.0	0.375	9.5	1.375	34.9	3.130	1.4

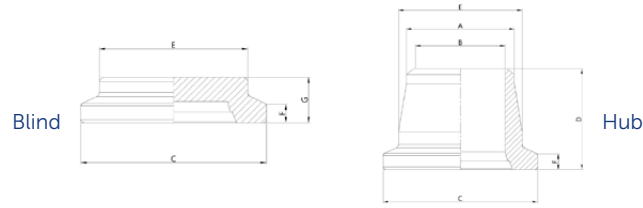
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# PIRTEK

## OIL & GAS



N.P.S.O. DIA	DN	PIPE SCH	SMILOCK HUB-GASKET NO	PIPE INSIDE DIAMETER		HUB OUTSIDE DIAMETER		HUB LENGTH		BACKFACE DIAMETER		LIP THICKNESS		BLIND THICKNESS		BW HUB WEIGHT		BLIND HUB WEIGHT	
(A)				(B)		(C)		(A)		(D)		(E)		(F)		Lbs	Kg	Lbs	Kg
ins	mm	-	-	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm				
1/2" 0.840	DN 15 (21.3)	Std 40 40S	1 SL 5	0.622	15.8	2000	50.8	1.750	44.5	1.500	38.1	0.313	8.0	1.313	33.4	0.600	0.3	0.800	0.4
		XS 80 80S	1 SL 5	0.546	13.9	2000	50.8	1.750	44.5	1.500	38.1	0.313	8.0	1.313	33.4	0.600	0.3	0.800	0.4
		160	1 SL 4	0.466	11.8	2000	50.8	1.750	44.5	1.500	38.1	0.313	8.0	1.313	33.4	0.600	0.3	0.800	0.4
		XXS	1 SL 4	0.252	6.4	2000	50.8	1.750	44.5	1.500	38.1	0.313	8.0	1.313	33.4	0.600	0.3	0.800	0.4
3/4" 1.05	DN 25 (33.4)	Std 40 40S	1 SL 7	0.824	20.9	2000	50.8	1.750	44.5	1.500	38.1	0.313	8.0	1.313	33.4	0.500	0.2	0.800	0.4
		XS 80 80S	1 SL 7	0.742	18.8	2000	50.8	1.750	44.5	1.500	38.1	0.313	8.0	1.313	33.4	0.600	0.3	0.800	0.4
		160	1 SL 5	0.614	15.6	2000	50.8	1.750	44.5	1.500	38.1	0.313	8.0	1.313	33.4	0.700	0.3	0.800	0.4
		XXS	1 SL 4	0.434	11.0	2000	50.8	1.750	44.5	1.500	38.1	0.313	8.0	1.313	33.4	0.700	0.3	0.800	0.4
1" 1.315	DN 25 (33.4)	Std 40 40S	1 SL 11	1.049	26.6	2000	50.8	1.750	44.5	1.500	38.1	0.313	8.0	1.313	33.4	0.500	0.2	0.800	0.4
		XS 80 80S	1 SL 11	0.957	24.3	2000	50.8	1.750	44.5	1.500	38.1	0.313	8.0	1.313	33.4	0.500	0.2	0.800	0.4
		160	1 SL 7	0.815	20.7	2000	50.8	1.750	44.5	1.500	38.1	0.313	8.0	1.313	33.4	0.600	0.3	0.800	0.4
		XXS	1 SL 5	0.599	15.2	2000	50.8	1.750	44.5	1.500	38.1	0.313	8.0	1.313	33.4	0.700	0.3	0.800	0.4
1-1/2" 1.900	DN 40 (48.3)	Std 40 40S	1-1/2 SL 14	1.610	40.9	3.125	79.4	2.375	60.3	2.375	60.3	0.437	11.1	1.625	41.3	1.600	0.7	2.500	1.1
		XS 80 80S	1-1/2 SL 13	1.500	38.1	3.125	79.4	2.375	60.3	2.375	60.3	0.500	12.7	1.625	41.3	1.900	0.8	2.600	1.2
		160	1-1/2 SL 13	1.338	34.0	3.125	79.4	2.375	60.3	2.375	60.3	0.500	12.7	1.625	41.3	2000	0.9	2.600	1.2
		XXS	1-1/2 SL 11	1.100	27.9	3.125	79.4	2.375	60.3	2.375	60.3	0.500	12.7	1.625	41.3	2400	1.1	2.600	1.2
2" 2.375	DN 50 (60.3)	Std 40 40S	2 SL 20	2.067	52.5	3.625	92.1	2.750	69.9	2.875	73.0	0.437	11.1	1.750	44.5	2.200	1.0	3.700	1.7
		XS 80 80S	2 SL 20	1.939	49.3	3.625	92.1	2.750	69.9	2.875	73.0	0.437	11.1	1.750	44.5	2.500	1.1	3.700	1.7
		160	2 SL 16	1.689	42.9	3.625	92.1	2.750	69.9	2.875	73.0	0.437	11.1	1.750	44.5	3.000	1.4	3.800	1.7
		XXS	2 SL 14	1.503	38.2	3.625	92.1	2.750	69.9	2.875	73.0	0.437	11.1	1.750	44.5	3.400	1.5	3.800	1.7
3" 3.500	DN 75 (88.9)	Std 40 40S	3 SL 27	3.068	77.9	5.000	127.0	3.250	82.6	4.000	101.6	0.500	12.7	1.875	47.6	4.700	2.1	7.800	3.5
		XS 80 80S	3 SL 27	2.900	73.7	5.000	127.0	3.250	82.6	4.000	101.6	0.500	12.7	1.875	47.6	5.200	2.4	7.800	3.5
		160	3 SL 25	2.624	66.6	5.000	127.0	3.250	82.6	4.000	101.6	0.500	12.7	1.875	47.6	6.300	2.9	7.800	3.5
		XXS	3 SL 23	2.300	58.4	5.000	127.0	3.250	82.6	4.000	101.6	0.500	12.7	1.875	47.6	7.400	3.3	7.800	3.6
4" 4.500	DN 100 (114.3)	Std 40 40S	4 SL 40	4.026	102.3	6.000	152.4	3.625	92.1	5.000	127.0	0.500	12.7	2.125	54.0	6.700	3.1	13.100	5.9
		XS 80 80S	4 SL 40	3.826	97.2	6.000	152.4	3.625	92.1	5.000	127.0	0.500	12.7	2.125	54.0	7.700	3.5	13.100	5.9
		120	4 SL 34	3.624	92.0	6.000	152.4	3.625	92.1	5.000	127.0	0.500	12.7	2.125	54.0	9.200	4.2	13.200	6.0
		160	4 SL 34	3.438	87.3	6.000	152.4	3.625	92.1	5.000	127.0	0.500	12.7	2.125	54.0	10.000	4.5	13.200	6.0
5" 5.563	DN 125 (141.3)	XXS	4 SL 31	3.152	80.1	6.000	152.4	3.625	92.1	5.000	127.0	0.500	12.7	2.125	54.0	11.500	5.2	13.200	6.0
		Std 40 40S	5 SL 52	5.047	128.2	7.500	190.5	4.375	111.1	6.500	165.1	0.625	15.9	2.750	69.9	13.300	6.0	27.800	12.6
		XS 80 80S	5 SL 52	4.813	122.3	7.500	190.5	4.375	111.1	6.500	165.1	0.625	15.9	2.750	69.9	14.800	6.7	27.800	12.6
		120	5 SL 46	4.563	115.9	7.500	190.5	4.375	111.1	6.500	165.1	0.625	15.9	2.750	69.9	17.800	8.1	27.800	12.6
6" 6.625	DN 150 (168.3)	160	5 SL 46	4.313	109.6	7.500	190.5	4.375	111.1	6.500	165.1	0.625	15.9	2.750	69.9	19.200	8.7	27.800	12.6
		XXS	5 SL 40	4.063	103.2	7.500	190.5	4.375	111.1	6.500	165.1	0.625	15.9	2.750	69.9	21.900	9.9	27.900	12.6
		Std 40 40S	6 SL 62	6.065	154.1	9.250	235.0	4.625	117.5	7.750	196.9	0.750	19.1	2.875	73.0	20.400	9.2	43.000	19.5
		XS 80 80S	6 SL 56	5.761	146.3	9.250	235.0	4.625	117.5	7.750	196.9	0.812	20.6	2.875	73.0	24.900	11.3	43.600	19.8
		120	6 SL 54	5.501	139.7	9.250	235.0	4.625	117.5	7.750	196.9	0.812	20.6	2.875	73.0	27.700	12.6	43.600	19.8
		160	6 SL 52	5.189	131.8	9.250	235.0	4.625	117.5	7.750	196.9	0.812	20.6	2.875	73.0	30.700	13.9	43.600	19.8
		XXS	6 SL 52	4.897	124.4	9.250	235.0	4.625	117.5	7.750	196.9	0.812	20.6	2.875	73.0	32.700	14.8	43.600	19.8

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# PIRTEK

## OIL & GAS

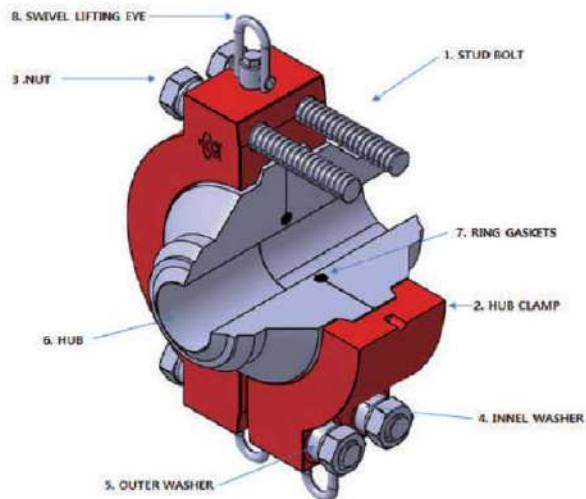


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[www.pirtek.com.au](http://www.pirtek.com.au)

## HUB CLAMP



API 16A CLAMP



### SPECIFICATION

- Hubs & clamps are designed & manufactured in accordance with below specific requirements
  - Products specification level - 1, 2, 3
  - Temperature rating - K to Y
  - Material class - AA to EE

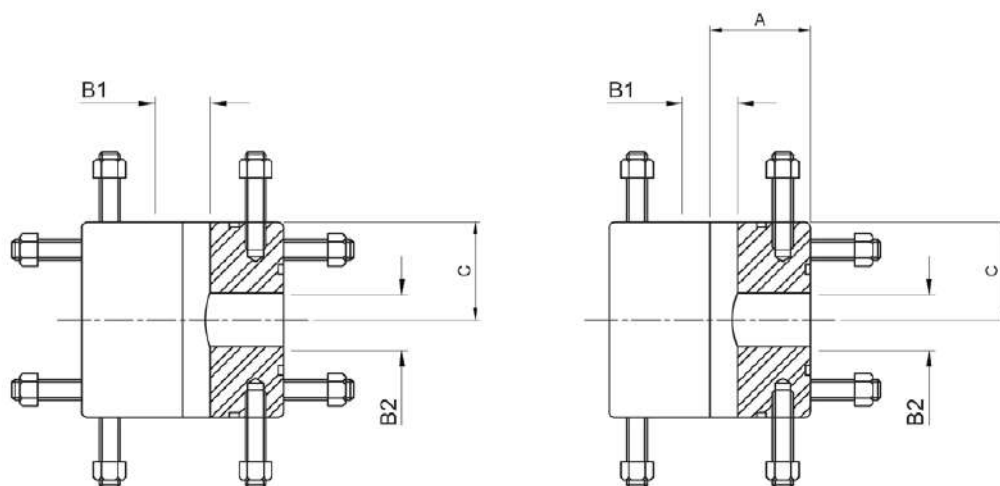
### COMPOSITION

NO.	ITEM	Q'TY
1	Stud Bolt	4
2	Hub Clamp	2
3	Nut	8
4	Inner Washer	8
5	Outer Washer	8
6	Hub	2
7	Ring Type Joint Gasket	1
8	Swivel Lifting Eye	6

- The complete range of Clamps & Hubs in accordance to API 16A.
- Clamps allow fast and easy make up even in limited space.
- All clamps have 360° infinite adjustability
- Clamps reliable to connect hubs and other API connections
- Hubs & clamps up to pressure range from 2,000 psi to 20,000 psi
- Hubs & clamps are designed & manufactured in accordance with below specific

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## STUDDED CROSS/TEE

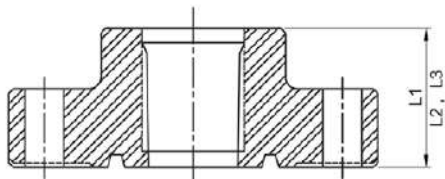


RATED WORKING PRESSURE (psi)	NOMINAL SIZE AND BORE		CENTRE TO FACE VERTICAL RUN C (inches)+.03,-0	CENTRE TO FACE HORIZONTAL RUN A (inches)+.03,-0
	VERTICAL B1 (Inches)+.03,-0	VERTICAL B2 (inches)+.03,-0		
5000	2 1/16	2 1/16	4.5	4.5
	2 9/16	2 9/16	5.0	5.0
	3 1/8	3 1/8	5.5	5.5
	4 1/16	4 1/16	6.5	6.5
10,000	1 13/16	1 13/16	4.38	4.38
	2 1/16	2 1/16	4.38	4.38
	2 9/16	2 9/16	5.12	5.12
	3 1/16	3 1/16	5.88	5.88
15,000	4 1/16	4 1/16	6.88	6.88
	1 13/16	1 13/16	5.0	5.0
	2 1/16	2 1/16	5.0	5.0
	2 9/16	2 9/16	5.5	5.5
20,000	3 1/16	3 1/16	6.31	6.31
	4 1/16	4 1/16	7.62	7.62
	1 13/16	1 13/16	6.47	6.47
	2 1/16	2 1/16	6.47	6.47
	2 9/16	2 9/16	7.28	7.28
	3 1/16	3 1/16	7.97	7.97
	4 1/16	4 1/16	9.91	9.91

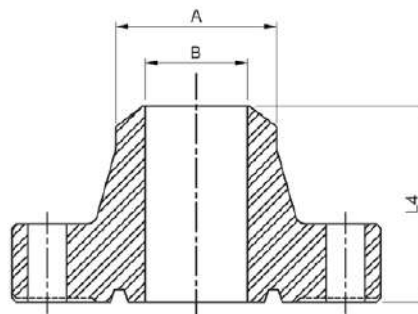
- Each size can be changed as customer's requirements.

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## API FLANGE



Threaded Flange



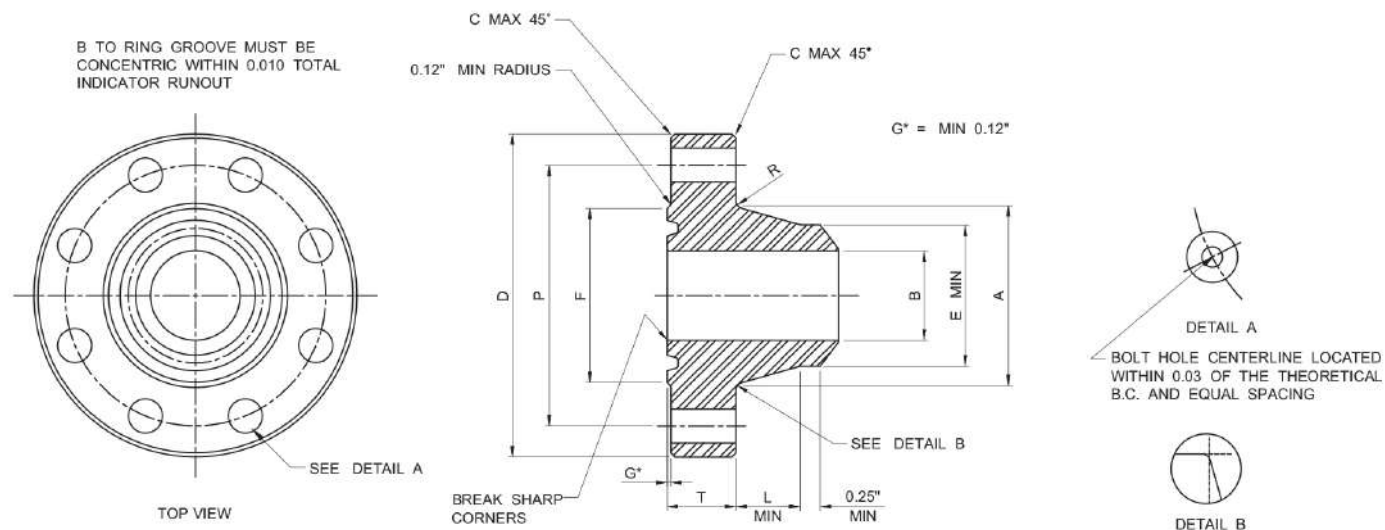
Weld Neck Line Pipe Flange

NOMINAL SIZE AND BORE OF FLANGE	NOMINAL SIZE AND BORE OF FLANGE	HUB LEGNTH THREADED LINE-PIPE FLANGE	HUB LENGTH THREADED CASING PIPE	HUB LENGTH TUBING FLANGE	HUB LEGNTH WELDING NEC LINE-PIPE FLANGE	MAXIMUM BORE OF WELDING NECK FLANGE
	-	L <sub>1</sub>	L <sub>2</sub>	L <sub>s</sub>	L <sub>4</sub> ±0.06	B
2,000 psi	2 1/16	2.56	-	2.56	4.31	1.97
	2 9/16	2.81	-	2.81	4.44	2.35
	3 1/8	2.44	-	2.94	4.31	2.93
	4 1/16	3.06	3.50	3.50	4.81	3.86
	=	L <sub>1</sub>	L <sub>2</sub>	-	L <sub>3</sub> ±0.06	B
3,000 psi	2 1/16	1.75	-	-	3.19	2.10
	2 9/16	1.94	-	-	3.44	2.50
	3 1/8	2.12	-	-	3.56	3.10
	4 1/16	2.44	3.50	-	4.31	4.06
	-	L <sub>1</sub>	L <sub>2</sub>	L <sub>s</sub>	L <sub>4</sub> ±0.06	B
5,000 psi	2 1/16	2.56	-	2.56	4.31	1.72
	2 9/16	2.81	-	2.81	4.44	2.16
	3 1/8	3.19	-	3.19	4.94	2.65
	4 1/16	3.88	3.88	3.88	5.19	3.47

- Each size can be changed as customer's requirements.

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# API FLANGE



API 6A-TYPE 6BX Welding Neck Flanges

WORKING PRESSURE (PSI)	NOMINAL SIZE AND BORE OF FLANGE	MAXIMUM BORE	OUTSIDE DIAMETER OF FLANGE	TOTAL THICKNESS OF FLANGE	LENGTH OF HUB	DIAMETER OF BOLT CIRCLE	NUMBER OF BOLTS	DIAMETER OF BOLTS	DIAMETER OF BOLT HOLES	RING NUMB
-	-	B	D	T	L	P	-	-	-	BX
10,000	2 1/16	2.09	7.88	1.73	2.03	6.25	8	3/4	0.88	152
	2 9/16	2.59	9.12	2.02	2.25	7.25	8	7/8	1.00	153
	3 1/16	3.09	10.62	2.30	2.50	8.50	8	1	1.12	154
	4 1/16	4.09	12.44	2.77	2.50	10.19	8	1 1/8	1.25	155
15,000	2 1/16	2.09	8.75	2.00	2.12	6.88	8	7/8	1.00	152
	2 9/16	2.59	10.00	2.25	2.25	7.88	8	1	1.12	153
	3 1/16	3.09	11.31	2.53	2.50	9.06	8	1 1/8	1.25	154
	4 1/16	4.09	14.19	3.09	2.88	11.44	8	1 3/8	1.50	155
20,000	2 1/16	2.09	11.31	2.81	2.06	9.06	8	1 1/8	1.25	152
	2 9/16	2.59	12.81	3.12	2.31	10.31	8	1 1/4	1.38	153
	3 1/16	3.09	14.06	3.38	2.50	11.31	8	1 3/8	1.50	154
	4 1/16	4.09	17.56	4.19	2.88	14.06	8	1 3/4	1.88	155

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## EQUIPMENT



### ENJOY THE DIFFERENCE

### Machines for the assembly of industrial hoses

Complete range of machines for the assembly of industrial hoses: crimping machines up to 12", cutting machines with motor power up to 11 kw and equipment for perfect fitting preassembling.



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## ENJOY THE DIFFERENCE

### Complete Line of Tubing Processing Equipment

Bending machines for bending stainless (AISI 316 TI) and carbon steel (ST 37.4) tubes with diameter from 5 to 50 mm; internal and external deburring machines of stainless (AISI 316 TI) and carbon steel (ST 37.4) tubes from 6 to 75 mm; 37° and 90° flaring machines for rigid tube ends up to diameter of 42 mm and max thickness of 5 mm and for the preassembling of DIN2353 rings. Lastly, we offer mobile multifunctional units which are able to carry out all necessary operations for preparing rigid tubes.



Deburring



37° flaring



90° flaring



Preassembling



Bending

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## HOSE PROTECTION PRODUCTS & SERVICES

### HAMMER UNION CAPS AND PLUGS (VINYL)

#### HU SERIES

Plugs to suit hammer union Males (wing nuts)  
Colour coded vinyl plugs cover machined threads and sealing surfaces of hammer union joint connections. Includes unique ergonomic handle for easy use. Designed with high durometer vinyl for durability and impact resistance at a lower cost.



#### FHU SERIES

Caps to suit hammer union female subs

Colour coded vinyl moulded protectors are designed for ease of installation and removal. This innovative moulding process allows for maximum protection and competitive pricing. Our FHU thread protectors offer an economical solution to protect the threads of expensive female sub components.

SIZE	1"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
<b>FIG (PLUGS)</b>									
100	-	-	HU-100-2	HU-100-2.5	HU-100-3	HU-100-4	HU-100-5	HU-100-6	-
1502	HU-1502-1	HU-1502-1.5	HU-1502-2	-	HU-1502-3	HU-1502-4	-	-	-
206	-	-	HU-206-2	-	HU-206-3	HU-206-4	-	HU-206-6	HU-206-8
400	-	-	HU-400-2	-	HU-400-3	-	-	-	-
602	-	-	HU-602-2	-	HU-602-3	HU-602-4	-	-	-
<b>FIG (CAPS)</b>									
100	-	-	-	FHU-100-2.5	FHU-100-3	-	-	-	-
1502	-	-	FHU-1502-2	-	FHU-1502-3	FHU-1502-4	-	-	-
206	-	-	FHU-206-2	-	FHU-206-3	FHU-206-4	-	-	FHU-206-8
400	-	-	FHU-400-2	-	FHU-400-3	-	-	-	-
602	-	-	-	-	-	-	-	-	-

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## HOSEBUN HOSE LIFTING SADDLES

Hosebuns are used to safely move hose assemblies into position. The saddle is manufactured from Urethane material which has excellent wear, strength and heat properties. The sling is a flat web style that complies with AS 1353.1 and are rated at 7:1 safety factor. Maximum temperature 93.3oC. Higher temperatures up to 593oC are attained using the Heatwrap (HW), please contact us for more details.

PRODUCT CODE	DESCRIPTION	UNIT	LENGTH (mm)	WEIGHT (kg)
HB100ED	25nb Hosebun saddle & sling AS 1353.1 362kg 7:1 SF	ea	406.4	1.4
HB125ED	32nb Hosebun saddle & sling AS 1353.1 362kg 7:1 SF	ea	444.5	1.5
HB150ED	38nb Hosebun saddle & sling AS 1353.1 362kg 7:1 SF	ea	450.9	1.7
HB200SRD	51nb Hosebun saddle & sling AS 1353.1 362kg 7:1 SF	ea	457.0	1.8
HB300H	76nb Hosebun saddle & sling AS 1353.1 681kg 7:1 SF	ea	324.0	2.3
HB400H	102nb Hosebun saddle & sling AS 1353.1 681kg 7:1 SF	ea	292.1	2.3
HB600H	152nb Hosebun saddle & sling AS 1353.1 3636kg 7:1 SF	ea	546.0	7.3
HB800H	203nb Hosebun saddle & sling AS 1353.1 5443kg 7:1 SF	ea	774.7	15.9
HB1000H	254nb Hosebun saddle & sling AS 1353.1 6804kg 7:1 SF	ea	1035.1	27.2
HB1200H	305nb Hosebun saddle & sling AS 1353.1 6804kg 7:1 SF	ea	1035.1	28.2



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**Model HC1000**

## HOSE CADDY

- Aluminium hose caddy, powder coated (Inferno Orange)
- Weight including the casters is 26.5 kg, lightweight yet durable
- Easy rolling heavy duty 6" swivel castors on all four corners have a working load capacity of 725kg
- Equipped with latex treated nylon web slings, designed to secure the hose and prevent slippage during transport
- Slings are easily replaced when worn or damaged
- High intensity reflective markers are applied to both ends of the caddy for easy locating in adverse night time conditions
- Available in a variety of colours
- Designed for 152mm to 305mm NB bore hose or a bundle of smaller hoses
- Hose caddy also comes in steel with all the same sizes except the total weight is 36kg (including castors) comes in 2 boxes

PRODUCT CODE	DESCRIPTION	WEIGHT (kg)
HC1000	305nb Hose Caddy trolley Alum frame swivel castors 725kg max	26.8
HC1000S	305nb Hose Caddy trolley Steel frame swivel castors 725kg max	73.7
HC1600S	406nb Hose Caddy trolley Alum frame swivel castors kg max	93

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## HOOKY HOOK HOSE LIFTING EYES

Manufactured to meet international lifting codes, these heavy duty lifting eyes are designed to lift and position rig supply hose assemblies from the facility to the OSV. They can also be used to position dock hose assemblies around the wharf and to the ship.

There are two components, the lifting eye, which is also available in a single eye version, and the clamps to hold the lifting eye into position on the hooky hook hose tail.

We can supply and manufacture hose lifters in materials from Carbon Steel, Aluminium Bronze and Gunmetal (for use in a non-spark environment).

All hose lifters are supplied and tested to specific safe work load, individually stamped or identified and supplied with lift test certification. Our hose lifters are supplied with the approved CE Stamp and CE type approved certificate.

DOUBLE EYE	CLAMP	HOSE SIZE NB	LIFT RATING (TONNES)
HL080	HL080C	3" (76mm)	3
HL100	HL100C	4" (102mm)	4
HL125	HL125C	5" (127mm)	5
HL150	HL150C	6" (152mm)	6
HL200	HL200C	8" (203mm)	6





Model HH7-234

## HOSE HOG

65–70 % of hydrocarbon and chemical spills are caused by: PIN HOLES IN HOSES

Hoses are laid on top of rocks and rough surfaces and the vibration from the pumps and general movement wear the hoses and pin holes occur or outer covers are worn away, presenting serious safety concerns.

- The ground hose HOG will save your hoses, save you money and help prevent fluid leaks for just pennies
- Made of Polyurethane
- Contoured radius accommodates size hoses 51 to 102mm NB.
- Lightweight and easy to stow on your pump set or vehicle.

### MATERIAL

Made of Polyurethane

### WEIGHT

Lightweight and easy to set up on your truck

### HOSE DIMENSIONS

Stands 7" high

Contoured Radius accomodates 2", 3" and 4" hoses

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## HOSE RESTRAINTS

An economical range of hose restraints to anchor hose assemblies or restrain them should the hose part from the connection points. These are critically important when people are operating near high pressure hose assemblies.

(Other types and sizes are available on request)

PRODUCT CODE	SIZE RANGE (mm)	BREAKING STRAIN (kn)
OGHR028040GS	28-40	38
OGHR040050GS	40-50	24
OGHR050060GS	50-60	62
OGHR060070GS	60-70	62
OGHR070085GS	70-85	62
OGHR085100GS	85-100	98
OGHR100120GS	100-120	133
OGHR120140GS	120-140	187
OGHR140180GS	140-180	283



Alternative Whipcheck

## NATA TESTING

### PIRTEK OIL AND GAS PTY LTD IS NOW A NATA ACCREDITED AUTHORITY

- Licensed to ISO/IEC 17025
- Certificate number AN 19624
- Our NATA procedures dovetail with our ISO 9001:2015 quality management system certificate number FS 618592
- Testing pressure capacity up to 4,500 bar



Accredited for compliance with ISO/IEC 17025 mechanical Testing.

### TESTING CAPABILITIES

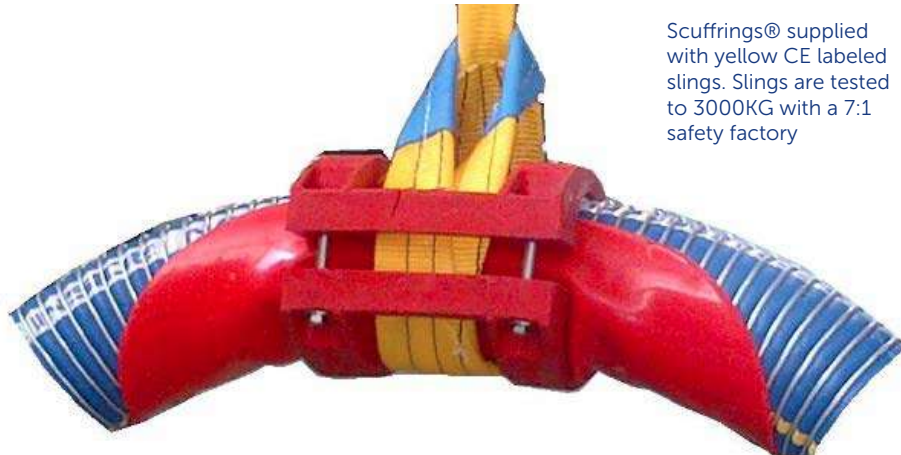
Pirtek Oil and Gas have a number of test chambers and data loggers for a variety of hose applications.

- An extremely large test chamber capable of testing very large bore hoses coiled on a double/double pallet size (eg, 40 metres 203nb hose, 240 metres 102nb hose). There are also extension troughs to test hoses up to 203nb and up to 15.2 metres long with witness glass along entire length. Also fitted with ultra high pressure hose testing to 4500 bar.
- Large bore and ultra high pressure hose testing cabinet capable of testing standard pallet sized hose assemblies. Full stainless steel unit complete with polycarbonate viewing panes. Testing pressures up to 4500 bar.
- Booster pumps fitted for faster pre filling.
- Multi port manifolds allow many hoses to be tested at same time.
- Data loggers with memory and capable of memory stick or Wi Fi load up. Complete with performance curve charts.
- UHP Hose testing unit, trolley mounted, capable of testing up to 4500 bar.
- All transducers are NATA calibrated yearly. Additional spare transducers are NATA calibrated yearly at alternative dates to minimise disruption to services.
- Safety cut out switches fitted to all cabinet style testing units that shuts down the pump and releases the pressure when cabinet doors are opened.
- Test units and chart recorders available for sale.
- Ohm electrical resistance and continuity testers, NATA calibrated annually.
- Temperature recorder, NATA calibrated annually.
- Measuring tape, NATA calibrated annually.
- Measuring ruler, NATA calibrated annually.
- Large inventory of test fittings

### TESTING CAPABILITIES INCLUDE

Hydrostatic Proof Pressure	ISO1402 8.1
	SAE J343 4.2
	AS1180.5 7.1
	ISO6605 5.2
	AS1851 T5.4.2
	AS4233.1 AppE
	API 7K
	ASTM D380 17.3
	ASME B16.5
	ASME B31.3
Change in Length	ISO1402 8.2.2
	SAE J343 4.3
	AS1180.5 7.2.2
	ISO6605 5.3
	AS2117 2.1
	ASTM D380 17.1.1
Leakage Test	ISO1402 8.4
	SAE J343 4.7
	AS1180.5 7.4
	ISO6605 5.7
	ASTM D380 17.5
Burst Pressure Test	ISO1402 8.3
	SAE J343 4.4
	AS1180.5 7.3
	ISO6605 5.4
Electrical Continuity	ASTM D380 16.1
	ISO8031
	AS1180.13B
	AS1180.13C





Scuffrings® supplied with yellow CE labeled slings. Slings are tested to 3000KG with a 7:1 safety factor

## SCUFFRING

### ANTI ABRASION COLLAR AND HOSE SUSPENSION SADDLE

A new, revolutionary product that:

- Protects hoses against abrasion
- Provides improved hose handling
- Improves safety

**Abrasion Prevention:** The innovative design of the Scuffrings® prevents abrasion damage; hose contact with the ground or foreign objects is minimized.

**Improved Hose Handling:** The Scuffrings® can be used to lift or move the hose thereby greatly reducing the risk of hose damage due to excess bending, kinking or cutting.

**Improved Safety:** the hose bending radius is protected and the hose is kept from kinking. Using Scuffrings®, In addition to extending and prolonging the life of the hose, it will prevent from kinking or otherwise

becoming compromised. Hoist suspend or manipulate hoses improperly can be very dangerous.

**Design & Installation:**

Scuffrings® are produced in two different types of materials:

- Rigid polyurethane foam, yellow color
- Polyurethane elastomer in red color

The anti-abrasion Scuffrings®, manufactured as two halves, are made of abrasion and shock resistant polyurethane. The two halves can be easily assembled on-site using the stainless steel bolts and nuts provided with the assembly kit. Simply place Scuffrings® at the desired interval on the hose and then tighten the bolts.

**Applications:** Dock hose, suction hose, vapour recovery hose or any size hose from 3" through 12" I.D.



Prolong hose life & increase safety

SIZE	OUTSIDE DIAMETER RANGE		WIDTH	WEIGHT (KGS)		SLING	Rated capacity kgs
	inch	mm		Red Elastomer PU	Yellow expanded PU	Length mm	
3		75-92	200	2	1,2	Yellow Polyester 2000	1500 @7:1 safety factor
4		95-118	200	2,5	1,5	Yellow Polyester 2000	1500 @7:1 safety factor
6		155-180	200	4	2,4	Yellow Polyester 2000	2400 @7:1 safety factor
8		190-225	230	7	4,2	Yellow Polyester 2000	2400 @7:1 safety factor
10		245-280	300	9	5,5	Yellow Polyester 2000	3000 @7:1 safety factor
12		295-335	400	14,5	8,7	Yellow Polyester 2000	3000 @7:1 safety factor

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## WHIP CHECK HOSE RESTRAINTS

Whip check cables prevent hose whip in event of accidental separation of couplings from hose assemblies. Spring loaded loops in the cable ends open easily to pass over the couplings for a secure grip on the hoses.

### MATERIALS:

Cables: Carbon Steel

Ferrules and crimps: Aluminium

PRODUCT CODE	RANGE (mm)	LENGTH (mm)	MAX BREAK FORCE (kn)
OGWC18X20ST	13-32	515	5
OGWC14X38ST	38-75	965	21

### MATERIALS:

Cables: Grade 316 SS

Ferrules and crimps: Brass

PRODUCT CODE	RANGE (mm)	LENGTH (mm)	MAX BREAK FORCE (kn)
OGWC18X20STSS	13-32	550	7.7
OGWC14X38STSS	38-75	956	7.7



Alternative Hose Restraint

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## FLUID INJECTION RESISTANT GLOVES 9030P

Pirtek Fluid Injection Resistant Gloves provide protection across a wide variety of industries. The glove is an ideal product for those who work on or with equipment powered by hydraulic and other high pressure systems.



### PROTECTION ZONES:

 3 Layers SuperFabric® Protection



### ATTRIBUTES:

Style:	Fluid Injection Resistant
Grip:	Dry or light oil
Cut Resistance:	8188 grams in noted enhanced areas
Cuff Style:	Elastic
Sizes:	7/S through 11/XXL

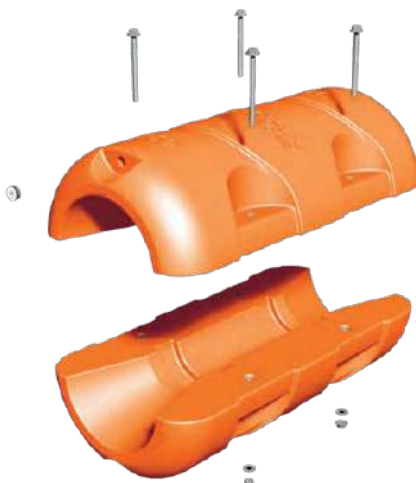
### FIBER CONTENT

Palm Liner:  
51% Plastic, 30% Polyester, 19% Cotton  
Shell: 55% Latex, 45% (100% Nylon)

Thermal Plastic Rubber

Lining: 44% Plastic, 28% Nylon,  
26% Polyester, 2% Spandex

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## RISK MANAGEMENT PRACTISE

Uncontrolled offshore hydrocarbon spills from MDUs, particularly in, or adjacent to, sensitive marine environments are a major risk factor and need to be tightly managed to avoid damage to the environment, significant penalties and adverse publicity. The highest ongoing risk of an offshore spill is during bunkering operations from an OSV.

### HOSE END SEPARATION:

Caused by crimping end terminations onto light-weight industrial hose. It is important to use a hose with a heavy duty construction to allow the crimped ferrule to bite solidly into the hose carcass.

### HOSE PARTING DURING OSV EMERGENCY MANOEUVRE:

An OSV's Master must be ready to mobilise the vessel should there be an emergency particularly in unpredictable sea conditions. If the hose string is still attached then it needs to be sacrificed. A breakaway (weak link) coupling will "kill the spill" without damaging the integrity of the hose assembly.

### HOSE DAMAGED BY OSV PROPELLERS:

If the hose string is not visible then there is a high risk of the OSV running over it causing damage and a potential hydrocarbon release. An adequate number of high visibility floatation collars will support the hose on the sea surface allowing it to be seen at all times.

### SPILL DURING OSV CONNECT/DISCONNECT:

After bunkering, the hose string still contains a large quantity of fuel which needs to remain contained and the use of a Dry Disconnect Coupling ensures zero spillage during connection and disconnection.

### LEAKS DUE TO HOSE FATIGUE:

Hose is easily damaged by rough handling while being deployed or stowed. Soft slings used to choke a hose will cause abrasion, kinks and twist damage to the hose helical wires causing premature failure. The use of our double eye swivel hose lifters provides a secure lift point and allows the hose to follow its natural form while being mobilised.

These issues are a real and significant hazard that requires a high level of Risk Management. Pirtek Oil & Gas, is the leading hose supplier to the Offshore Oil & Gas industry and has developed a complete package of products and services that negate most of the risk associated with hose bunkering. We have combined world's best practice to develop a system that best protects the clients' interest.

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# RISK MANAGEMENT PRACTISE

The following is our methodology when constructing a bunkering string for our clients' needs:

## 8 STEPS TO THE IDEAL FUEL BUNKERING HOSE STRING

### 1. DECIDE HOSE STRING SIZE & LENGTH:

- Usually 100mm ID x 60m in assembled in 2 sections; 40m facility end, 20m OSV end.

### 2 SELECT HOSE TYPE:

- We recommend high quality, non-collapsible fuel rated hose.
- 20 or 34 bar WP with a 4:1 safety factor provides a significant wall thickness for end fitting retention and resistance to abuse.
- Hose is supported by quality certificates to EN10204-2.2.

### 3. SELECT END TERMINATION FITTING:

- End fittings are crimped or swaged with NPT male threads or ASME welded flanges.
- End fitting stem has a grooved hookie hook section to accept the double eye swivel hose lifter assembly.
- Ferrules can be colour coded to UKOOA standard to denote service.
- Metallic components are marked for material traceability to EN10204-3.1.

### 4. USE COUPLINGS SUITABLE FOR SERVICE:

- For hazardous materials, use a Dry Disconnect Coupling to NATO STANAG 3756 for universal compatibility.
- Hose boat end is typically fitted with a female coupler to attach to the OSV male adaptor.
- Non-hazardous applications may be fitted with a figure 206 hammer union male sub.
- Use an integral union swage tail to avoid potential leak paths through threaded connections.
- All metallic components are marked for material traceability to EN10204-3.1.

### 5. FIT BREAKAWAY COUPLING:

- Fit a marine breakaway coupling between hose lengths in either NPT female thread or flanged.
- Coupling can be valved or non-valved as per service. Valveless type is typically used where protection of the hose asset is more important than environmental impact.
- Consider break force requirements; between 33 and 52kN.
- All metallic components are marked for material traceability to EN10204-3.1.

### 7. EQUIP HOSE STRING WITH FLOTATION DEVICE:

Select high visibility yellow polyethylene floatation collars w/- 316SS bolts, Use a buoyancy rating of 22kg for up to 100nb or 132kg for 125nb or above. Calculate number of floats required with hose full, typically 1 every 2m for up to 100nb and 1 every 3 for 125nb or above.

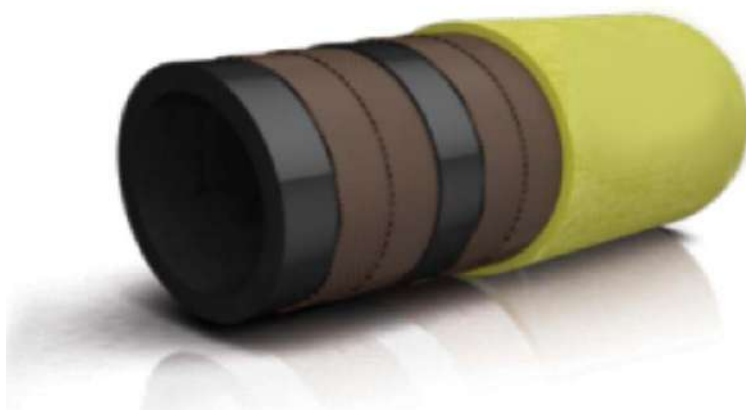
### 8. TEST AND CERTIFY:

- Hydrostatic pressure test to ISO1402 considering hose string's lowest rated component.
- Construct hose assembly in line with ISGOTT electrical properties; facility length conductive and boat length non-conductive to prevent galvanic corrosion and static build up.
- Stamp unique assembly ID on each fitting and affix 316SS identification & test tag.
- Supply with Manufacturer's Data Report MDR.

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## HOSE: AIR WATER



### IRSAW - AIR & WATER HOSE 20 Bar 4:1 SF (Manufactured to AS2554 Class D)

**TEMPERATURE RANGE** -30°C to 85°C

**CONSTRUCTION**

**TUBE** SBR/NBR, black, smooth, suitable for water and air, resistant to oil mist

**REINFORCEMENT** High tensile textile cord

**COVER** SBR, blue, yellow or green smooth with cloth impression weather, and abrasion resistant.

Robust air hose for heavy duty applications in heavy industry, construction and mining

ID (mm)	OD (mm)	WALL (mm)	BEND RAD. (mm)	WEIGHT (kg/m)	WP (bar)	BP (bar)
13.0	23.0	5.0	91	0.4	20	80
19.0	31.0	6.0	133	0.7	20	80
25.0	37.0	6.0	175	0.8	20	80
38.0	52.0	7.0	266	1.4	20	80
51.0	67.0	8.0	357	2.1	20	80
76.0	96.0	10.0	532	3.8	20	80
102.0	122.0	10.0	714	4.9	20	80

Batch marked every metre to provide traceability in compliance with EN10204 2 type 2.2

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## JETTING HOSE

### STANDARD

ABS/DNV

### APPLICATION

Jetting hose is high-pressure flexible connection between main deck of platform and high pressure water systems used to break the suction between the jackup feet (spud cans) and ocean floor prior to lifting the legs.

### HOSE STRUCTURE

Tube: Nitrile rubber based liner, oil resistance, seawater resistance, high temperature resistance and ageing resistance.

### REINFORCEMENT

High tension steel cable. Cover: Neoprene rubber based cover, fire-proof, wear resistance, oil resistance, ozone & ageing resistance, UV resistance, which is applicable to marine environment.

### TEMPERATURE RANGE

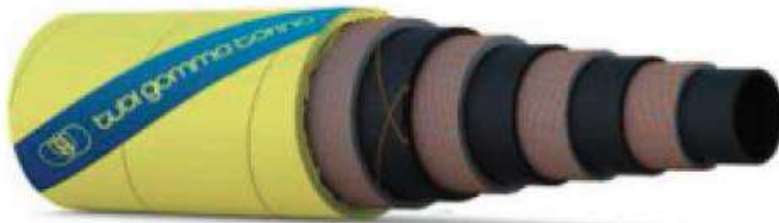
-30°C to +100°C.

### MAXIMUM CONTINUOUS LENGTH

70m

PRODUCT CODE	ID (inch)	ID (mm)	OD (inch)	OD (mm)	WP (bar)	WP (psi)	BP (bar)	BP (psi)	SAFETY COEFFICIENT	MBR (m)	WEIGHT (kg/m)
OGJET0512K	2	51	3.03	77	140	2000	560	8000	4	900	7.0
OGJET0632K	2-1/2	64	3.58	91	140	2000	560	8000	4	900	9.5
OGJET0762K	3	76	4.61	117	140	2000	560	8000	4	1200	15.5
OGJET0902K	3-1/2	89	4.84	123	140	2000	560	8000	4	1400	15.8
OGJET1022K	4	102	5.24	133	140	2000	560	8000	4	1400	16.0
OGJET1272K	5	127	6.69	170	140	2000	560	8000	4	1450	28.5
OGJET1522K	6	152	7.68	195	140	2000	560	8000	4	1500	35.5
OGJET0513K	2	51	3.39	86	210	3,000	840	12,000	4	900	10.4
OGJET0633K	2-1/2	64	3.94	100	210	3,000	840	12,000	4	900	12.4
OGJET0763K	3	76	4.37	111	210	3,000	840	12,000	4	1,200	15.1
OGJET0903K	3-1/2	89	5.00	127	210	3,000	840	12,000	4	1,400	19.2
OGJET1023K	4	102	5.47	139	210	3,000	840	12,000	4	1,400	21.4
OGJET1273K	5	127	7.36	187	210	3,000	840	12,000	4	1,500	41.5
OGJET1523K	6	152	8.50	216	210	3,000	840	12,000	4	1,600	58.0

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## IRSAWY40\*\*\*\* - AIR HOSE HI TEMP 160°C

### 40 bar 4:1 SF

### (Manufactured to AS2554 Class D)

<b>STRUCTURE</b>	Black tube, smooth EPR antistatic rubber compound, reinforced with high strength synthetic plies and crossing copper cords for hose grounding cloth, impression yellow EPDM rubber compound, resistant to abrasion, sea water and weathering.
<b>APPLICATION</b>	High pressure & temperature delivery hose for compressed air.
<b>TEMPERATURE</b>	-30°C + 160°C
<b>COIL LENGTHS</b>	40 to 61m

PRODUCT CODE	ID (mm)	OD (mm)	WEIGHT (kg/m)	WP (bar)	BP (bar)
IRSAWY40-051061G	51	70	1,88	40	160
IRSAWY40-076061G	76	100	2,84	40	160
IRSAWY40-102061G	102	128	4,15	40	160

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# OGAWYS DRILLERS AIR/WATER

## 41 bar (600 psi) 4:1

## Safety Factor Operating Temperature 120°C

<b>TUBE</b>	Black extruded SBR
<b>REINFORCEMENT</b>	High tensile steel wire
<b>COVER</b>	Yellow SBR/NBR abrasion, ozone, flame resistant -pin pricked
<b>TEMPERATURE RANGE</b>	-40°C to 120°C

A robust heavy duty rubber air and water hose designed to withstand the arduous working conditions of the oil and gas industry. A higher working temperature to withstand extended operational conditions experienced on process plants and drilling platforms.

PRODUCT CODE	ID (mm/inch)	OD (mm)	WP (bar)	BEND RADIUS (mm)	WEIGHT (kg/m)	COIL LENGTH (m)
OGAWY40S-051	51 2"	64	41	255	2.28	60
OGAWY40S-076	76 3"	90	41	381	3.54	60
OGAWY40S-102	102 4"	120	41	460	5.76	60

Standard end fittings are usually heavy duty crimped NPT ends with hammer union subs affixed, or flanged ends. Other configurations are available as required.



And hose protection products



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## HOSE: DRILLING



### HIGH-PRESSURE MUD HOSE/ ROTARY DRILLING HOSE/ VIBRATOR HOSE/ CEMENT HOSE (Swaged couplings)

#### APPLICATION

Hose is used as a flexible connection between the top of the standpipe and the vertically moving swivel on offshore and in-land oil drilling and exploration rigs. The vibrator hose is a flexible connection between the mud pump manifold and the standpipe, for adjustment and isolation from vibration. Cementing hose is a flexible connection between the cementing pump and the top drive on offshore and land drilling rigs for delivery of high-pressure cement.

#### STANDARDS

- Standard: API Spec 7K / ISO 6807 / GB/T 24145
- API monogram No.: 7K-0458 (Techfluid)

#### HOSE STRUCTURE

- Tube: Nitrile rubber based liner sealing layer, oil resistance, acid & alkali resistance, high temperature resistance and ageing resistance
- Breaker Layer and external protection layers: High tension textile fabric
- Major Reinforcement for withstanding pressure: High Strength Steel Cable
- Cover: Neoprene based rubber for anti-flaming, wear resistance, oil resistance, ozone & ageing resistance, UV resistance, which is especially suited for marine environment.

#### FIRE PROOF GRADE

Regular supplied hose meets fire proof grade SR6A, which is 704°C for 5 minutes. Also available with extra fire proof layers meeting fire proof grade SR6B, which performs at 704°C for 30 minutes

#### OTHER FEATURES

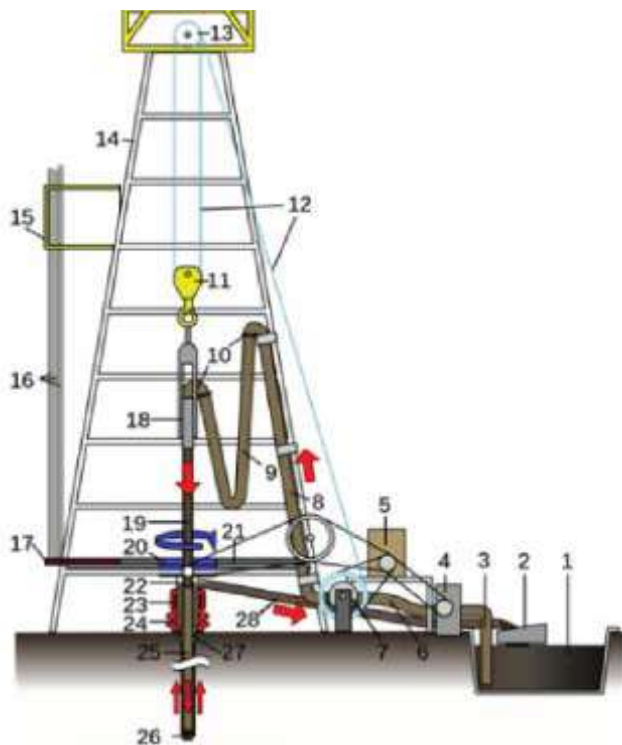
- Embedded electric heat trace cable is available on request for low temperature operating conditions.
- External protection layers are available on request or by our recommendation according to individual operation condition as follows
  - stainless steel armour outer wrap
  - embedded stainless steel wire in cover
  - polyethylene spiral guard, etc.

#### NORMAL PARAMETERS

- Working temperature range: class II , -25 to +100°C
- Flexibility specification level: FSL2
- Maximum continuous length: 70 metres
- Length tolerance: Up to 6.4 metres ( $\pm 64$  mm), longer lengths ( $\pm 1\%$ )
- Measurement basis of Minimum Bending Radius (MBR) is centre line of each hose

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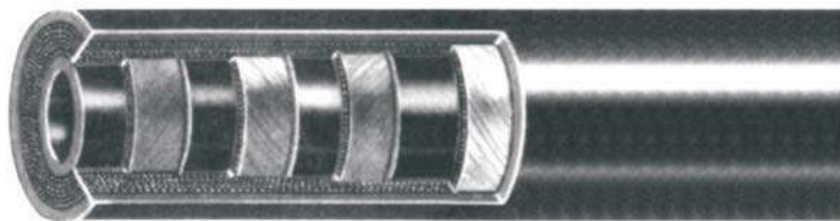
- |                                  |                               |
|----------------------------------|-------------------------------|
| 1. Mud Pit                       | 15. Monkey Board              |
| 2. Shale Shaker                  | 16. Drill Pipe                |
| 3. Suction Line                  | 17. Substructure              |
| 4. Mud Pumps                     | 18. Swivel                    |
| 5. Engine-Generator Sets         | 19. Kelly                     |
| 6. Vibration Dampening Hose      | 20. Turn Table                |
| 7. Draw Works                    | 21. Rat Hole                  |
| 8. Stand Pipe                    | 22. B.O.P Stack               |
| 9. Rotary Kelly Hose             | 23. Annular Blowout Preventer |
| 10. Goose Neck                   | 24. Ram Blowout Preventer     |
| 11. Travelling Blocks            | 25. Drill String              |
| 12. Cat Line Boom and Hoist Line | 26. Drill Bit                 |
| 13. Crown Blocks                 | 27. Conductor Casing          |
| 14. Derrick                      | 28. Diverter Line             |

Note: safety coefficient (safety factor) is 2.5:1. Maximum lengths are 70 metres.

PRODUCT CODE	ID (mm)	OD (mm)	WP (bar)	TP (bar)	FSL	MBR (storage)	MBR (ops)	WEIGHT (kg/m)
OGAPI0515K	51	87	345	690	FSL2	0.8	0.9	10.2
OGAPI0645K	64	102	345	690	FSL2	0.8	0.9	13.6
OGAPI0765K	76	114	345	690	FSL2	1.1	1.2	15.4
OGAPI0895K	89	131	345	690	FSL2	1.2	1.3	20
OGAPI1025K	102	145	345	690	FSL2	1.2	1.4	22.4
OGAPI1275K	127	191	345	690	FSL2	1.4	1.5	47.8
OGAPI1525K	152	216	345	690	FSL2	1.6	1.8	58
OGAPI05175K	51	99	517	1034	FSL2	1.1	1.2	18.2
OGAPI06475K	64	120.5	517	1034	FSL2	1.1	1.2	26.4
OGAPI07675K	76	134	517	1034	FSL2	1.2	1.3	30.2
OGAPI08975K	89	147	517	1034	FSL2	1.2	1.3	36.4
OGAPI10275K	102	160	517	1034	FSL2	1.3	1.4	40.4
OGAPI12775K	127	186	517	1034	FSL2	1.4	1.5	48.2
OGAPI05110K	51	99	690	1034	FSL0	1.1	1.2	18.2
OGAPI06410K	64	120.5	690	1034	FSL0	1.2	1.3	26.4
OGAPI07610K	76	134	690	1034	FSL0	1.3	1.4	30.2
OGAPI08910K	89	147	690	1034	FSL0	1.3	1.4	36.4
OGAPI10210K	102	160	690	1034	FSL0	1.3	1.4	40.4

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## OGCH - CEMENTING HOSE (350 Bar WP 4:1 SP)

**CONSTRUCTION** Inner liner of synthetic CR oil resistance rubber, multiple steel wire reinforcements wrapped in alternating directions and an oil and weather resistant synthetic rubber cover. This hose made in conformity with SAE R13 and GB/T10544-2013 standards, but is not an api monogrammed hose.

**APPLICATIONS** Used with petroleum based fluids, hydraulic oil, fuel oil, lubrication oil, emulsified liquids, drilling fluids.

**TEMPERATURE** Working temperature range within -40°C to 121°C

NB (mm)	OD (mm)	WP (bar)	BP (bar)	BEND RADIUS (mm)	WEIGHT (kg/m)
51	72.7	350	1400	640	6.9

Note: Other sizes and pressures available on request.



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## BOP CONTROL HOSE

### STANDARD

API 16D/Lloyd's Register/ABS

### APPLICATION

BOP hose is mainly used for hydraulic control of BOP. Operating pressure up to 5000psi. It can be directly exposed to flame for more than 5min at the temperature of 704°C, to ensure control system can be operated under emergencies.

### HOSE STRUCTURE

Tube: Black smooth nitrile rubber, oil resistance, seawater resistance, high temperature resistance, acid & alkaline resistance

### REINFORCEMENT

High tension steel wire. Fire shield layer: Glass fiber cloth

### COVER

Red, chloroprene rubber, fire resistance, wear resistance, ozone & ageing resistance, oil resistance

### TEMPERATURE RANGE

-40°C to + 121°C Fire resistance meet API 16D, 704°Cx 5 min

PRODUCT CODE	ID (bar)	ID (psi)	OD (bar)	OD (psi)	WP (bar)	WP (psi)	BP (bar)	BP (psi)	SAFETY COEFFICIENT	MBR (mm)	WEIGHT (kg/m)	MAX LENGTH (mm)
OGBOP0103K	3/8	10.0	1.06	27	207	3,000	828	12,000	4.0	152	0.9	100
OGBOP0103K	1/2	12.5	1.18	30	207	3,000	828	12,000	4.0	229	1.1	100
OGBOP0103K	3/4	19.0	1.46	37	207	3,000	828	12,000	4.0	305	1.5	100
OGBOP0103K	1	25.0	1.77	45	207	3,000	828	12,000	4.0	381	2.7	100
OGBOP0103K	1-1/4	32.0	2.13	54	207	3,000	828	12,000	4.0	457	3.7	60
OGBOP0103K	1-1/2	38.0	2.36	60	207	3,000	828	12,000	4.0	559	4.5	60
OGBOP0103K	2	51.0	2.95	75	207	3,000	828	12,000	4.0	686	5.8	40
OGBOP0105K	3/8	10.0	1.06	27	345	5,000	1,380	20,000	4.0	152	1.3	100
OGBOP0105K	1/2	12.5	1.22	31	345	5,000	1,380	20,000	4.0	229	1.5	100
OGBOP0105K	3/4	19.0	1.54	39	345	5,000	1,380	20,000	4.0	305	2.0	100
OGBOP0105K	1	25.0	1.81	46	345	5,000	1,380	20,000	4.0	381	3.1	100
OGBOP0105K	1-1/4	32.0	2.28	58	345	5,000	1,380	20,000	4.0	457	4.9	60
OGBOP0105K	1-1/2	38.0	2.56	65	345	5,000	1,380	20,000	4.0	559	5.8	60
OGBOP0105K	2	51.0	3.15	80	345	5,000	1,380	20,000	4.0	686	8.4	40

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## BOP CONTROL ARMoured HOSE

### STANDARD

API 16D/Lloyd's Register/ABS

### APPLICATION

BOP hose is mainly used for hydraulic control of BOP. Operating pressure up to 5000psi. It can be directly exposed to flame for more than 5 min at the temperature of 704°C, to ensure control system can be operated under emergencies.

### HOSE STRUCTURE

Tube: Black smooth nitrile rubber, oil resistance, seawater resistance, high temperature resistance, acid & alkaline resistance

### REINFORCEMENT

High tension steel wire. Fire shield layer: Glass fiber cloth. Cover: Black, chloroprene rubber, fire resistance, wear resistance, ozone & ageing resistance, oil resistance. Outer armour: Stainless steel strip wound

### TEMPERATURE RANGE

-40°C to + 121°C Fire resistance meet API 16D, 704°C x 5min

PRODUCT CODE	ID (inch)	ID (mm)	OD (inch)	OD (mm)	WP (bar)	WP (psi)	BP (bar)	BP (psi)	SAFETY COEFFICIENT	MBR (mm)	WEIGHT (kg/m)	MAX LENGTH (mm)
OGBOP010A3K	3/8	10.0	1.10	28.0	207	3,000	828	12,000	4.0	152	1.2	100
OGBOP010A3K	1/2	12.5	1.22	31.0	207	3,000	828	12,000	4.0	229	1.5	100
OGBOP010A3K	3/4	19.0	1.58	40.0	207	3,000	828	12,000	4.0	305	2.0	100
OGBOP010A3K	1	25.0	1.83	46.5	207	3,000	828	12,000	4.0	381	3.5	100
OGBOP010A3K	1-1/4	32.0	2.17	55.0	207	3,000	828	12,000	4.0	457	4.7	60
OGBOP010A3K	1-1/2	38.0	2.40	61.0	207	3,000	828	12,000	4.0	559	5.7	60
OGBOP010A3K	2	51.0	2.95	75.0	207	3,000	828	12,000	4.0	686	7.6	40
OGBOP010A5K	3/8	10.0	1.10	28.0	345	5,000	1,380	20,000	4.0	152	1.6	100
OGBOP010A5K	1/2	12.5	1.22	31.0	345	5,000	1,380	20,000	4.0	229	2.0	100
OGBOP010A5K	3/4	19.0	1.58	40.0	345	5,000	1,380	20,000	4.0	305	2.6	100
OGBOP010A5K	1	25.0	1.83	46.5	345	5,000	1,380	20,000	4.0	381	3.7	100
OGBOP010A5K	1-1/4	32.0	2.28	58.0	345	5,000	1,380	20,000	4.0	457	6.0	60
OGBOP010A5K	1-1/2	38.0	2.56	65.0	345	5,000	1,380	20,000	4.0	559	7.1	60
OGBOP010A5K	2	51.0	3.15	80.0	345	5,000	1,380	20,000	4.0	686	10.0	40

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## OGHP076-3K MULTI-PURPOSE HIGH PRESSURE HOSE (207 bar WP, 4:1 SF)

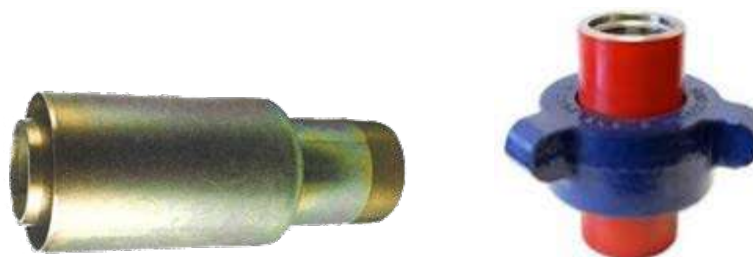
**CONSTRUCTION** Inner liner of synthetic oil resistance, multiple steel wire reinforcements wrapped in alternating directions and an oil and weather resistant synthetic rubber cover. This hose made in conformity with API standard and ISO 6807 standard, but is not an API Monogrammed hose.

**APPLICATIONS** Used with alcohol, hydraulic oil, fuel oil, lubrication oil, emulsified liquids, drilling fluids.

**TEMPERATURE** Working temperature range within -40°C to 100°C

NB (mm)	OD (mm)	WP (bar)	BP (bar)	BEND RADIUS (mm)	WEIGHT (kg/m)
76.1	109	207	828	1300	16.2

Note: Other sizes and pressures available on request.



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## HOSE: FUEL OR METHANOL



### IRSFHW - FUEL HARD WALL HOSE 20 Bar 4:1 SF

**TEMPERATURE RANGE:** -40°C to 100°C

#### CONSTRUCTION

##### TUBE

Oil resistant elastomer compound black, smooth,

##### REINFORCEMENT

High tensile textile cord, steel helix wires two crossing antistatic wires

##### COVER

Blend of synthetic elastomer compound, black anti-static smooth with cloth impression, high oil, heat, abrasion, weather and ozone resistant

Suction and discharge hose for transport of mineral oil products and fuel mixtures with aromatic content up to 50%.

ID (mm)	OD (mm)	WALL (mm)	BEND RAD.(mm)	WEIGHT (kg/m)	WP (bar)	BP (bar)
51.0	68.0	8.5	357	2.4	20	80
63.0	81.0	9.0	441	3.1	20	80
76.0	96.0	10.0	532	4.2	20	80
102.0	122.0	10.0	714	5.8	20	80
127.0	149.0	11.0	889	7.7	20	80
152.0	174.0	11.0	1064	9.3	20	80
203.0	233.0	15.0	1421	16.7	20	80

Batch marked every metre to provide traceability in compliance with EN10204 2 type 2.2

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## OGFHWDH HARDWALL RIG SUPPLY HOSE (Multipurpose Fuel/Brine/Mud/Base Oil) 40 or 20 Bar WP 4:1 SF

<b>TUBE</b>	50% Aromatic Hydrocarbon Resistant Nitrile Butadiene Rubber
<b>REINFORCEMENT</b>	Multiple Layers of Textile Braid, High Tensile Steel Helix and Anti-Static Copper Wire
<b>COVER</b>	Seawater, Oil, UV and Abrasion Resistant Synthetic Rubber
<b>TEMPERATURE</b>	-40°C to +100°C

Specially designed for bulk rig supply operations in arduous conditions where high end pull resistance is required

CODE	WP (bar)	BP (bar)	TEMPERATURE (°C)	COIL LENGTHS (m)
OGFHWDH40-076	40	160	100	60
OGFHWDH40-102	40	160	100	60
OGFHWDH-076	20	80	100	60
OGFHWDH-102	20	80	100	60

Hose ends are fitted with heavy duty crimped fittings in NPT or BW in steel or stainless and a range of couplings including hammer union, flange, dry disconnect or breakaway are also available



To compliment this package, a range of hose protection products are available as well as NATA certified testing services



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# IRSOFSD - OIL FUEL HARD WALL HOSE

## 10 Bar 4:1 SF

### (AS2683 Type 1, Grade 2, Kind 1)

**TEMPERATURE RANGE** -30°C to 100°C

**CONSTRUCTION**

**TUBE** NBR, black, smooth, oil resistant

**REINFORCEMENT** High tensile textile cord, steel helix wires two crossing antistatic wires

**COVER** CR/BR, black smooth with cloth impression resistant to weather and abrasion

Fuel oil with up to 50% Aromatic Content

ID (mm)	OD (mm)	WALL (mm)	BEND RAD. (mm)	WEIGHT (kg/m)	WP (bar)	BP (bar)
19.0	29.0	5.0	76	0.53	10	40
25.0	35.0	5.0	100	0.68	10	40
32.0	42.0	5.0	128	0.81	10	40
38.0	49.0	5.0	152	1.20	10	40
51.0	62.0	5.0	204	1.47	10	40
63.0	75.0	6.0	252	2.11	10	40
76.0	89.0	6.5	304	2.40	10	40
102.0	116.0	7.0	408	3.93	10	40
152.0	170.0	9.0	760	8.10	10	40
203.0	225.0	11.0	1015	13.10	10	40

Batch marked every metre to provide traceability in compliance with EN10204 2 type 2.2

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## HOSE: JACK AND UHP



### JACK HOSE SERIES THERMOPLASTIC HOSE Static Pressure - Water Proof Cover

- Static pressure 700 bar with safety ratio 1:2,5
- MSHA, NFPA 1936 Compliant
- Excellent abrasion and hydrolysis resistance
- High flexibility



FLUID POWER



VERY HIGH PRESSURE



AIR



WATER-BASED FLUIDS






WATER



HYDRAULIC OIL

### TECHNICAL FEATURES

Metric

									
CODE	INCH	MM	DN	MM	BAR	BAR	MM	G/M	FERRULE CODE
OGMT2J37000	1/4"	6.4	6	13.5	700	1750	40	296	OGBP14R9R
OGMT2J37000B**	1/4"	6.4	6	13.5	700	1750	40	592	OGBP14R9R
OGMTH2J57000#	3/8"	9.9	10	17.0	700	1500	60	400	OGBP38R9R
OGMTKJ57000	3/8"	9.7	10	18.0	700	1750	60	340	OGBP38R9R
OGMTKJ67000	1/2"	13.0	12	22.0	700	1750	75	486	OGBP12R9R

#Inner core made of Thermoplastic Polyester-Elastomer material (TPE). SF 2,15:1 according to NFPA 1936

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# JACK HOSE SERIES THERMOPLASTIC HOSE

## Static Pressure - Water Proof Cover

### TECHNICAL FEATURES

#### TECHNICAL-CONSTRUCTIVE FEATURES:

Inner core made of polyamide, reinforcement of high tensile steel braids and exterior cover made of antiabrasion polyurethane resistant to hydrolysis and stabilized for outdoor applications, micro perforated on request for the conduction of air and compatible gases.

#### APPLICATIONS:

The JACK HOSE - Static Pressure series has been created for the high pressure conduction of polyols and hydraulic fluids in static systems (jacks, cylinders).

#### WORKING TEMPERATURE:

from -40°C to +100°C (-40°F to 212°F)

Max. working temperature with air, water and water-based fluids is +70°C(+158°F)

#### VACUUM RATING:

0.93 bar; 700 mm Hg

#### COLOURS AVAILABLE:

black (00), red (05), yellow (04).

Change the last two numbers of the codes with the respective colour codes. Available on request also in different customized colours.

#### SPECIFICATIONS:

Hoses meet or exceed NFPA 1936, MSHA Standards.

\*\*TWIN-LINE hose, on request also in two different colours.

The use of ZEC JACK HOSE fittings is recommended.

\*The waterproof feature of the cover makes the hose particularly suitable for wet and saline environments and extreme temperature changes.



**PIN-PRICKING**



**COLOUR**



**COVER**



**MULTI-TUBE**



**PACKING**



**LONG LENGTH**

**NORMATIVE**

NFPA 1936

MSHA



**PIRTEK**  
 OIL & GAS

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## HOSE TYPE 13/2WM

### ID13 - Series: M

#### APPLICATIONS

##### HYDRAULICS

Hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)

##### OIL AND GAS

Methanol service (oil rigs, distribution panels, umbilicals), control of subsea hydraulic components, nitrogen service, jumper/ subsea well control

#### TECHNICAL INFORMATION

##### INNER CORE

BESNO P40 TLO (PA11)

##### PRESSURE SUPPORT

2 open layers, 2 dense layers of high-tensile steel wire

##### OUTER COVER

Polyamide (PA)


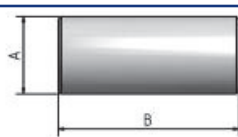
##### COLOUR

Dark blue

##### TEMPERATURE

-30°C to +60°C [-22°F to 140°F]

Ø ID	Ø OD	WORKING PRESSURE	BURST PRESSURE	BEND RADIUS	WEIGHT	INSERT ID
12,7 mm	20,8 mm	690 bar	2.760 bar	150 mm	0,630 kg/m	8,5 mm
0,50 inch	0,82 inch	10.000 psi	40.000 psi	5,91 inch	0,422 lbs/ft	0,33 inch

PART NO.	THREAD	MATERIAL	DIMENSIONS (mm)				SLEEVE
			A	B	C		
11330181W	-	Steel	27,8	60	-	-	
11330185W	-	AISI 316Ti	27,8	64	-	-	

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## 040 VHP 10000 MARINER

Thermoplastic constant pressure hose for marine very high pressure hydraulic applications  
Up to 700 bar (up to 10000 psi)

### INNER TUBE

Polyester elastomer

### REINFORCEMENT

Up to three braids of Aramid fibre plus one braid of steel wire

### COVER

Polyurethane, black, non pinpricked, white ink-jet branding

### APPLICATIONS

Off-shore and sub-sea high pressure systems

Pumps and valves

Bolt tensioning tools

Jacking and rerailing equipment

### FEATURES

Combined Aramid steel braid construction for compact design

Lightweight and flexible

Low bend radii for use on hose reels and in constricted environments

Antibrasion cover

### DESCRIPTION

Exceeds the former American Jacking Specifications IJ100 (1/4"). Very High Pressure hose suitable for petroleum, synthetic or water based hydraulic fluids in hydraulic systems and applications requiring increased resistance to seawater and saline environments. It is also recommended for general on-shore equipment working in a high humidity environment. Combined Aramid Steel braid ensures longevity pressure performance and compact design.

### TEMPERATURE RANGE

-40°C to +100°C (-40°F to +212°F) Limited to +70°C (+158°F) for air and water based fluids

### VACUUM RATING

-0.93 bar/-700 mm Hg  
-13.5 psi/-27.5 inch Hg

### APPLICATIONS



### PACKAGING



### CERTIFICATION



PART NO.	HOSE SIZE			ID		OD		WP		BP		SAFETY FACTOR	BEND RADIUS		WEIGHT		FERRULE PART NO.	
	dash	inch	DN	mm	inch	mm	inch	bar	psi	bar	psi		mm	inch	g/m	lbs/ft	carbon	stainless
0402	-4	1/4"	6	6,60	0,260	12,70	0,500	700	10000	2800	40000	4:1	35	1,38	180	0.121	SAF121	SAF821
0404	-6	3/8"	10	9,80	0,386	18,70	0,736	700	10000	2800	40000	4:1	90	3,54	330	0.222	SAF141	SAF841
0405	-8	1/2"	12	13,00	0,512	24,50	0,965	700	10000	2450	35000	3,5:1	100	3,94	520	0,349	SAF151	SAF851

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## 141 VHP 10000 Twin

PART NO.	HOSE SIZE			ID		OD		WP		BP		SAFETY FACTOR	BEND RADIUS		WEIGHT		FERRULE PART NO.	
	dash	inch	DN	mm	inch	mm	inch	bar	psi	bar	psi		mm	inch	g/m	lbs/ft	carbon	stainless
1412	-4	1/4"	6	6,60	0,260	12,70	0,500	700	10000	2800	40000	4:1	35	1,38	360	0,242	SAF121	SAF821
1414	-6	3/8"	10	9,80	0,386	18,70	0,736	700	10000	2800	40000	4:1	90	3,54	660	0,444	SAF141	SAF841



## 135 R18 CPLT 3000 Twin

PART NO.	HOSE SIZE			ID		OD		WP		BP		SAFETY FACTOR	BEND RADIUS		WEIGHT		FERRULE PART NO.	
	dash	inch	DN	mm	inch	mm	inch	bar	psi	bar	psi		mm	inch	g/m	lbs/ft	carbon	stainless
1351	-3	3/16"	5	5,00	0,197	9,60	0,378	210	3000	840	12000	4:1	25	0,98	120	0,081	SAB111	SAB811
1352	-4	1/4"	6	6,50	0,256	12,20	0,480	210	3000	840	12000	4:1	35	1,38	190	0,128	SAB121	SAB821
1353	-5	5/16"	8	8,10	0,319	14,30	0,563	210	3000	840	12000	4:1	45	1,77	260	0,175	SAB131	SAB831
1354	-6	3/8"	10	9,70	0,382	16,60	0,654	210	3000	840	12000	4:1	45	1,77	330	0,222	SAB141	SAB841
1355	-8	1/2"	12	13,00	0,512	22,50	0,886	210	3000	840	12000	4:1	70	2,76	590	0,397	SA5151	SA5851
1356	-10	5/8"	16	16,30	0,642	26,10	1,028	210	3000	840	12000	4:1	100	3,94	740	0,497	SA5161	SA5861

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## HOSE: MATERIALS



### VACUFLEX (DRVAC)

## Heavy Duty Vacuum Hose 10 Bar WP 3:1 SF

#### STRUCTURE

Black colour NBR compound tube, oil resistant. Black corrugated outer cover NBR compound abrasion resistant. Multiple layers of high tensile synthetic cord and hi tensile helix wire.

#### TEMPERATURE

-20°C to 80°C

#### APPLICATION

Heavy suction hose used on vacuum trucks. General purpose suction and discharge.

PRODUCT CODE	ID (mm)	OD (mm)	BR (mm)	WP (mpa)	BP (mm)	COIL LENGTHS (mtrs)	WEIGHT (kg/m)
OGDRVAC025	25.4	35	80	10	30	30	0.787
OGDRVAC051	50.8	63	170	10	30	30	1.846
OGDRVAC076	76.1	90	300	10	30	30	2.758
OGDRVAC102	101.6	118	415	10	30	30	4.539
OGDRVAC127	127.0	143	520	10	30	30	5.536
OGDRVAC152	152.0	170	635	10	30	30	7.756
OGDRVAC203	203.2	224	840	10	30	30	12.302

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## DR801 BULK HOSE

### 10 bar 3:1 SF

HOSE TYPES	Mandrel Built
TEMPERATURE RANGE	-20°C to + 80°C
CONSTRUCTION	Tube: Black colour of antistatic NR blend compound (high abrasion resistance)
REINFORCEMENT	Multiple layers of high tensile synthetic cord supported with helix wire
COVER	Black colour of NR blend compound (abrasion and weather resistance)
SURFACE	Wrapped finishing

PRODUCT CODE	ID (mm)	OD (mm)	LENGTH (mtr)	WP (bar)	BP (bar)
DR801038	38.1	52	30	10	30
DR801051	50.8	67	30	10	30
DR801063	63.5	84	30	10	30
DR801076	76.1	102	30	10	30
DR801102	101.6	128	30	10	30
DR801127	127.0	159	30	10	30
DR801152	152.0	184	30	10	30
DR801203	203.2	235	12	10	30
DR801254	254.0	286	12	10	30
DR801305	304.0	344	12	10	30

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