



Pipe Fittings



Medium & High Pressure
Fittings and Tubing

Quick Couplings

Medium & High Pressure
Valves

Line Filters

Sour Service Products

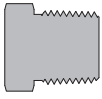
Subsea Valves

Tools and Installation
Instructions

Technical Information

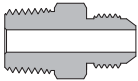
Contents

Pipe Plugs - HPP



A-38

Hex Nipples - HPHN



A-39

Hex Long Nipples - HPLN



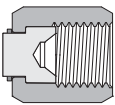
A-45

Pipe Caps - HPC



A-46

Pipe Cap Assemblies(Moveable Insert)-HMC



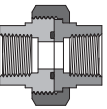
A-47

Hex Couplings - HPCG



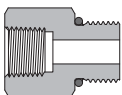
A-48

Zero-Clearance Unions - HPZC



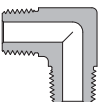
A-51

Adapters - HPA



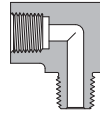
A-52

Male Elbows - HPME



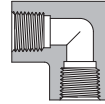
A-58

Street Elbows - HPSE



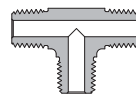
A-59

Female Elbows - HPE



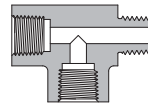
A-61

Male Tees - HPMT



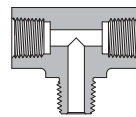
A-61

Male Street Tees - HPST



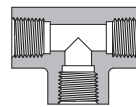
A-62

Male Branch Tees - HPBT



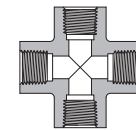
A-63

Female Tees - HPT



A-63

Female Crosses - HPCR



A-64

Ordering Number Description

A-65

Features

- ⦿ High tensile 316 Stainless Steel as standard material, other materials available upon request
- ⦿ The hardened threads with smooth surface finishing avoid galling and help to extend the fitting service life
- ⦿ Radius junction design for elbows provides smooth flow path
- ⦿ Every fitting marked with size, material and heat number

Thread Specifications

Connection Type	Code	Thread Type	Thread Specification
Male or Female NPT	NS	NPT	ASME B1.20.1, SAE AS71051
Male or Female ISO/BSP Tapered	RT	ISO/BSP Tapered	ISO 7-1, BS EN 10226-1, DIN EN 10226-1, JIS B0203
Heavy-Duty Stud Ends (SAE J1926-2, ISO 11926-2)	SH	SAE/MS	ASME B1.1
Ports with O-ring Seal in Truncated Housing (SAE J1926-1, ISO 11926-1)	US		
Male or Female JIC (37° Flare)	AN		
Female Swivel JIC (37° Flare)	AS		
Male Type "M"	HM		

Working Pressure

The working pressures of pipe fittings are shown in the "Ordering Information and Dimensions".

Working Temperature

Connection Type	Working Temperature Range
Male or Female NPT	-325°F to 400°F (-198°C to 204°C)
Male or Female ISO/BSP Tapered	-325°F to 400°F (-198°C to 204°C)
Heavy-Duty Stud Ends (SAE J1926-2, ISO 11926-2)	0°F to 400°F (-17.8°C to 204°C) ^①
Ports with O-ring Seal in Truncated Housing (SAE J1926-1, ISO 11926-1)	-50°F to 550°F (-45°C to 288°C)
Male or Female JIC (37° Flare)	-423°F to 1200°F (-252°C to 649°C)
Female Swivel JIC (37° Flare)	-423°F to 1200°F (-252°C to 649°C)
Male Type "M"	-423°F to 1200°F (-252°C to 649°C)

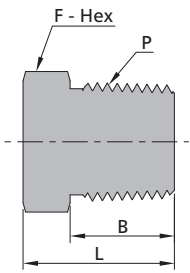
^① The ends are supplied with a Fluorocarbon FKM O-ring as standard, other materials of O-rings available.

Cautions:

- ⦿ Do not loosen or tighten fittings when the system is pressurized.
- ⦿ Always use proper thread sealants on tapered pipe threads.

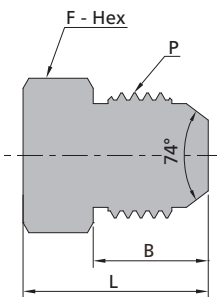
Ordering Information and Dimensions

Pipe Plugs

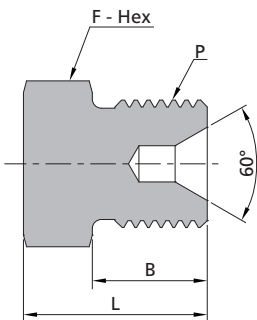


Male NPT Threads						
P-NPT Size, in.	Ordering Number	Dimensions, in. (mm)			Working Pressure psig (bar)	
		L	F	B		
1/8	SS-HPP-NS2	0.63 (16.0)	0.44 (11.1)	0.38 (9.7)	15000 (1034)	
1/4	SS-HPP-NS4	0.87 (22.2)	0.56 (14.3)	0.56 (14.2)	15000 (1034)	
3/8	SS-HPP-NS6	0.93 (23.6)	0.69 (17.5)	0.56 (14.2)	15000 (1034)	
1/2	SS-HPP-NS8	1.16 (29.5)	0.87 (22.2)	0.75 (19.1)	15000 (1034)	
3/4	SS-HPP-NS12	1.25 (31.8)	1.06 (27.0)	0.75 (19.1)	10000 (690)	
1	SS-HPP-NS16	1.55 (39.3)	1.37 (34.9)	0.94 (23.9)	10000 (690)	

Male ISO/BSP Tapered Threads						
P-ISO/BSP Tapered Size, in.	Ordering Number	Dimensions, in. (mm)			Working Pressure psig (bar)	
		L	F	B		
1/8	SS-HPP-RT2	0.63 (16.0)	0.44 (11.1)	0.38 (9.7)	15000 (1034)	
1/4	SS-HPP-RT4	0.87 (22.2)	0.56 (14.3)	0.56 (14.2)	15000 (1034)	
3/8	SS-HPP-RT6	0.93 (23.6)	0.69 (17.5)	0.56 (14.2)	15000 (1034)	
1/2	SS-HPP-RT8	1.16 (29.5)	0.87 (22.2)	0.75 (19.1)	15000 (1034)	
3/4	SS-HPP-RT12	1.25 (31.8)	1.06 (27.0)	0.75 (19.1)	10000 (690)	
1	SS-HPP-RT16	1.55 (39.3)	1.37 (34.9)	0.94 (23.9)	10000 (690)	

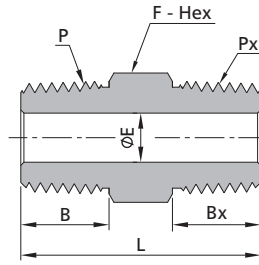


Male JIC						
P-SAE/MS Thread Size, in.	Ordering Number	Dimensions, in. (mm)			Working Pressure psig (bar)	
		L	F	B		
7/16-20	SS-HPP-AN4	0.83 (21.0)	0.50 (12.7)	0.55 (14.0)	20000 (1379)	
9/16-18	SS-HPP-AN6	0.89 (22.7)	0.63 (15.9)	0.56 (14.1)	20000 (1379)	
3/4-16	SS-HPP-AN8	1.05 (26.7)	0.81 (20.6)	0.66 (16.7)	20000 (1379)	
7/8-14	SS-HPP-AN10	1.19 (30.3)	0.94 (23.8)	0.76 (19.3)	20000 (1379)	
1 1/16-12	SS-HPP-AN12	1.37 (34.9)	1.13 (28.6)	0.86 (21.9)	15000 (1034)	
1 5/16-12	SS-HPP-AN16	1.51 (38.3)	1.37 (34.9)	0.91 (23.1)	15000 (1034)	



Male Type "M"						
P-SAE/MS Thread Size, in.	Ordering Number	Dimensions, in. (mm)			Working Pressure psig (bar)	
		L	F	B		
9/16-18	SS-HPP-HM9	0.84 (21.3)	0.63 (15.9)	0.50 (12.7)	60000 (4137)	
3/4-16	SS-HPP-HM12	1.01 (25.6)	0.75 (19.1)	0.63 (16.0)	30000 (2068)	
7/8-14	SS-HPP-HM14	1.21 (30.8)	1.00 (25.4)	0.76 (19.2)	50000 (3447)	
1-12	SS-HPP-HM16	1.10 (27.9)	1.00 (25.4)	0.64 (16.3)	30000 (2068)	
1 5/16-12	SS-HPP-HM21	1.22 (30.9)	1.37 (34.9)	0.62 (15.7)	20000 (1379)	

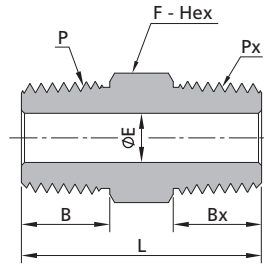
Hex Nipples



Male NPT Threads								
P-NPT Size, in.	Px-NPT Size, in.	Ordering Number	Dimensions, in. (mm)					Working Pressure psig (bar)
			L	F	B	Bx	E	
1/8	1/8	SS-HPHN-NS2	1.05 (26.6)	0.44 (11.1)	0.38 (9.7)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/4	1/8	SS-HPHN-NS4-NS2	1.30 (32.9)	0.56 (14.3)	0.56 (14.2)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/4	1/4	SS-HPHN-NS4	1.47 (37.4)	0.56 (14.3)	0.56 (14.2)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
3/8	1/8	SS-HPHN-NS6-NS2	1.34 (34.1)	0.69 (17.5)	0.56 (14.2)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
3/8	1/4	SS-HPHN-NS6-NS4	1.52 (38.6)	0.69 (17.5)	0.56 (14.2)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
3/8	3/8	SS-HPHN-NS6	1.52 (38.6)	0.69 (17.5)	0.56 (14.2)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
1/2	1/8	SS-HPHN-NS8-NS2	1.58 (40.2)	0.87 (22.2)	0.75 (19.1)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/2	1/4	SS-HPHN-NS8-NS4	1.76 (44.7)	0.87 (22.2)	0.75 (19.1)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
1/2	3/8	SS-HPHN-NS8-NS6	1.76 (44.7)	0.87 (22.2)	0.75 (19.1)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
1/2	1/2	SS-HPHN-NS8	1.95 (49.6)	0.87 (22.2)	0.75 (19.1)	0.75 (19.1)	0.38 (9.6)	15000 (1034)
3/4	1/8	SS-HPHN-NS12-NS2	1.67 (42.4)	1.06 (27.0)	0.75 (19.1)	0.38 (9.7)	0.22 (5.5)	10000 (690)
3/4	1/4	SS-HPHN-NS12-NS4	1.85 (46.9)	1.06 (27.0)	0.75 (19.1)	0.56 (14.2)	0.28 (7.1)	10000 (690)
3/4	3/8	SS-HPHN-NS12-NS6	1.85 (46.9)	1.06 (27.0)	0.75 (19.1)	0.56 (14.2)	0.38 (9.6)	10000 (690)
3/4	1/2	SS-HPHN-NS12-NS8	2.04 (51.8)	1.06 (27.0)	0.75 (19.1)	0.75 (19.1)	0.47 (11.9)	10000 (690)
3/4	3/4	SS-HPHN-NS12	2.04 (51.8)	1.06 (27.0)	0.75 (19.1)	0.75 (19.1)	0.58 (14.8)	10000 (690)
1	1/8	SS-HPHN-NS16-NS2	1.96 (49.8)	1.37 (34.9)	0.94 (23.9)	0.38 (9.7)	0.22 (5.5)	10000 (690)
1	1/4	SS-HPHN-NS16-NS4	2.14 (54.3)	1.37 (34.9)	0.94 (23.9)	0.56 (14.2)	0.28 (7.1)	10000 (690)
1	3/8	SS-HPHN-NS16-NS6	2.14 (54.3)	1.37 (34.9)	0.94 (23.9)	0.56 (14.2)	0.38 (9.6)	10000 (690)
1	1/2	SS-HPHN-NS16-NS8	2.33 (59.2)	1.37 (34.9)	0.94 (23.9)	0.75 (19.1)	0.47 (11.9)	10000 (690)
1	3/4	SS-HPHN-NS16-NS12	2.33 (59.2)	1.37 (34.9)	0.94 (23.9)	0.75 (19.1)	0.58 (14.8)	10000 (690)
1	1	SS-HPHN-NS16	2.52 (64.0)	1.37 (34.9)	0.94 (23.9)	0.94 (23.9)	0.79 (20.0)	10000 (690)

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Hex Nipples



Male NPT Threads			Male ISO/BSP Tapered Threads					
P-NPT Size, in.	Px-ISO/BSP Tapered Size, in.	Ordering Number	Dimensions, in. (mm)					Working Pressure psig (bar)
			L	F	B	Bx	E	
1/8	1/8	SS-HPHN-NS2-RT2	1.05 (26.6)	0.44 (11.1)	0.38 (9.7)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/4	1/8	SS-HPHN-NS4-RT2	1.30 (32.9)	0.56 (14.3)	0.56 (14.2)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/4	1/4	SS-HPHN-NS4-RT4	1.47 (37.4)	0.56 (14.3)	0.56 (14.2)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
3/8	1/8	SS-HPHN-NS6-RT2	1.34 (34.1)	0.69 (17.5)	0.56 (14.2)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
3/8	1/4	SS-HPHN-NS6-RT4	1.52 (38.6)	0.69 (17.5)	0.56 (14.2)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
3/8	3/8	SS-HPHN-NS6-RT6	1.52 (38.6)	0.69 (17.5)	0.56 (14.2)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
1/2	1/8	SS-HPHN-NS8-RT2	1.58 (40.2)	0.87 (22.2)	0.75 (19.1)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/2	1/4	SS-HPHN-NS8-RT4	1.76 (44.7)	0.87 (22.2)	0.75 (19.1)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
1/2	3/8	SS-HPHN-NS8-RT6	1.76 (44.7)	0.87 (22.2)	0.75 (19.1)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
1/2	1/2	SS-HPHN-NS8-RT8	1.95 (49.6)	0.87 (22.2)	0.75 (19.1)	0.75 (19.1)	0.38 (9.6)	15000 (1034)
3/4	1/8	SS-HPHN-NS12-RT2	1.67 (42.4)	1.06 (27.0)	0.75 (19.1)	0.38 (9.7)	0.22 (5.5)	10000 (690)
3/4	1/4	SS-HPHN-NS12-RT4	1.85 (46.9)	1.06 (27.0)	0.75 (19.1)	0.56 (14.2)	0.28 (7.1)	10000 (690)
3/4	3/8	SS-HPHN-NS12-RT6	1.85 (46.9)	1.06 (27.0)	0.75 (19.1)	0.56 (14.2)	0.38 (9.6)	10000 (690)
3/4	1/2	SS-HPHN-NS12-RT8	2.04 (51.8)	1.06 (27.0)	0.75 (19.1)	0.75 (19.1)	0.47 (11.9)	10000 (690)
3/4	3/4	SS-HPHN-NS12-RT12	2.04 (51.8)	1.06 (27.0)	0.75 (19.1)	0.75 (19.1)	0.58 (14.8)	10000 (690)
1	1/8	SS-HPHN-NS16-RT2	1.96 (49.8)	1.37 (34.9)	0.94 (23.9)	0.38 (9.7)	0.22 (5.5)	10000 (690)
1	1/4	SS-HPHN-NS16-RT4	2.14 (54.3)	1.37 (34.9)	0.94 (23.9)	0.56 (14.2)	0.28 (7.1)	10000 (690)
1	3/8	SS-HPHN-NS16-RT6	2.14 (54.3)	1.37 (34.9)	0.94 (23.9)	0.56 (14.2)	0.38 (9.6)	10000 (690)
1	1/2	SS-HPHN-NS16-RT8	2.33 (59.2)	1.37 (34.9)	0.94 (23.9)	0.75 (19.1)	0.47 (11.9)	10000 (690)
1	3/4	SS-HPHN-NS16-RT12	2.33 (59.2)	1.37 (34.9)	0.94 (23.9)	0.75 (19.1)	0.58 (14.8)	10000 (690)
1	1	SS-HPHN-NS16-RT16	2.52 (64.0)	1.37 (34.9)	0.94 (23.9)	0.94 (23.9)	0.79 (20.0)	10000 (690)

Medium & High Pressure Fittings and Tubing

Quick Couplings

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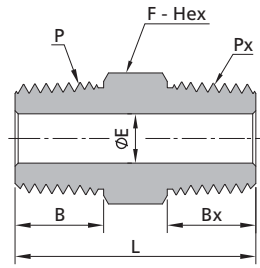
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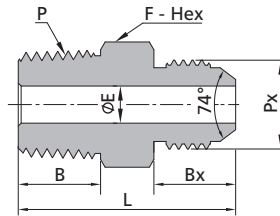
Hex Nipples



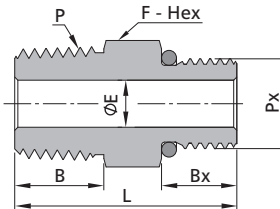
Male ISO/BSP Tapered Threads									
P-ISO/BSP Tapered Size, in.	Px-ISO/BSP Tapered Size, in.	Ordering Number	Dimensions, in. (mm)					Working Pressure psig (bar)	
			L	F	B	Bx	E		
1/8	1/8	SS-HPHN-RT2	1.05 (26.6)	0.44 (11.1)	0.38 (9.7)	0.38 (9.7)	0.19 (4.8)	15000 (1034)	
1/4	1/8	SS-HPHN-RT4-RT2	1.30 (32.9)	0.56 (14.3)	0.56 (14.2)	0.38 (9.7)	0.19 (4.8)	15000 (1034)	
1/4	1/4	SS-HPHN-RT4	1.47 (37.4)	0.56 (14.3)	0.56 (14.2)	0.56 (14.2)	0.25 (6.4)	15000 (1034)	
3/8	1/8	SS-HPHN-RT6-RT2	1.34 (34.1)	0.69 (17.5)	0.56 (14.2)	0.38 (9.7)	0.19 (4.8)	15000 (1034)	
3/8	1/4	SS-HPHN-RT6-RT4	1.52 (38.6)	0.69 (17.5)	0.56 (14.2)	0.56 (14.2)	0.25 (6.4)	15000 (1034)	
3/8	3/8	SS-HPHN-RT6	1.52 (38.6)	0.69 (17.5)	0.56 (14.2)	0.56 (14.2)	0.31 (7.9)	15000 (1034)	
1/2	1/8	SS-HPHN-RT8-RT2	1.58 (40.2)	0.87 (22.2)	0.75 (19.1)	0.38 (9.7)	0.19 (4.8)	15000 (1034)	
1/2	1/4	SS-HPHN-RT8-RT4	1.76 (44.7)	0.87 (22.2)	0.75 (19.1)	0.56 (14.2)	0.25 (6.4)	15000 (1034)	
1/2	3/8	SS-HPHN-RT8-RT6	1.76 (44.7)	0.87 (22.2)	0.75 (19.1)	0.56 (14.2)	0.31 (7.9)	15000 (1034)	
1/2	1/2	SS-HPHN-RT8	1.95 (49.6)	0.87 (22.2)	0.75 (19.1)	0.75 (19.1)	0.38 (9.6)	15000 (1034)	
3/4	1/8	SS-HPHN-RT12-RT2	1.67 (42.4)	1.06 (27.0)	0.75 (19.1)	0.38 (9.7)	0.22 (5.5)	10000 (690)	
3/4	1/4	SS-HPHN-RT12-RT4	1.85 (46.9)	1.06 (27.0)	0.75 (19.1)	0.56 (14.2)	0.28 (7.1)	10000 (690)	
3/4	3/8	SS-HPHN-RT12-RT6	1.85 (46.9)	1.06 (27.0)	0.75 (19.1)	0.56 (14.2)	0.38 (9.6)	10000 (690)	
3/4	1/2	SS-HPHN-RT12-RT8	2.04 (51.8)	1.06 (27.0)	0.75 (19.1)	0.75 (19.1)	0.47 (11.9)	10000 (690)	
3/4	3/4	SS-HPHN-RT12	2.04 (51.8)	1.06 (27.0)	0.75 (19.1)	0.75 (19.1)	0.58 (14.8)	10000 (690)	
1	1/8	SS-HPHN-RT16-RT2	1.96 (49.8)	1.37 (34.9)	0.94 (23.9)	0.38 (9.7)	0.22 (5.5)	10000 (690)	
1	1/4	SS-HPHN-RT16-RT4	2.14 (54.3)	1.37 (34.9)	0.94 (23.9)	0.56 (14.2)	0.28 (7.1)	10000 (690)	
1	3/8	SS-HPHN-RT16-RT6	2.14 (54.3)	1.37 (34.9)	0.94 (23.9)	0.56 (14.2)	0.38 (9.6)	10000 (690)	
1	1/2	SS-HPHN-RT16-RT8	2.33 (59.2)	1.37 (34.9)	0.94 (23.9)	0.75 (19.1)	0.47 (11.9)	10000 (690)	
1	3/4	SS-HPHN-RT16-RT12	2.33 (59.2)	1.37 (34.9)	0.94 (23.9)	0.75 (19.1)	0.58 (14.8)	10000 (690)	
1	1	SS-HPHN-RT16	2.52 (64.0)	1.37 (34.9)	0.94 (23.9)	0.94 (23.9)	0.79 (20.0)	10000 (690)	

- Medium & High Pressure Fittings and Tubing
- Quick Couplings
- Medium & High Pressure Valves
- Line Filters
- Sour Service Products
- Subsea Valves
- Tools and Installation Instructions
- Technical Information

Hex Nipples



Male NPT Threads			Dimensions, in. (mm)					Male JIC
P-NPT Size, in.	Px-SAE/MS Thread Size, in.	Ordering Number	L	F	B	Bx	E	Working Pressure psig (bar)
			1/8	7/16-20	SS-HPHN-NS2-AN4	1.23 (31.3)	0.50 (12.7)	
1/8	9/16-18	SS-HPHN-NS2-AN6	1.31 (33.4)	0.63 (15.9)	0.38 (9.7)	0.56 (14.1)	0.19 (4.8)	15000 (1034)
1/4	7/16-20	SS-HPHN-NS4-AN4	1.46 (37.2)	0.56 (14.3)	0.56 (14.2)	0.55 (14.0)	0.17 (4.4)	15000 (1034)
1/4	9/16-18	SS-HPHN-NS4-AN6	1.49 (37.9)	0.63 (15.9)	0.56 (14.2)	0.56 (14.1)	0.23 (5.8)	15000 (1034)
1/4	3/4-16	SS-HPHN-NS4-AN8	1.65 (41.9)	0.81 (20.6)	0.56 (14.2)	0.66 (16.7)	0.25 (6.4)	15000 (1034)
3/8	7/16-20	SS-HPHN-NS6-AN4	1.52 (38.4)	0.69 (17.5)	0.56 (14.2)	0.55 (14.0)	0.17(4.4)	15000 (1034)
3/8	9/16-18	SS-HPHN-NS6-AN6	1.52 (38.4)	0.69 (17.5)	0.56 (14.2)	0.56 (14.1)	0.23 (5.8)	15000 (1034)
3/8	3/4-16	SS-HPHN-NS6-AN8	1.62 (41.1)	0.81 (20.6)	0.56 (14.2)	0.66 (16.7)	0.31 (7.9)	15000 (1034)
1/2	7/16-20	SS-HPHN-NS8-AN4	1.75 (44.5)	0.87 (22.2)	0.75 (19.1)	0.55 (14.0)	0.17 (4.4)	15000 (1034)
1/2	9/16-18	SS-HPHN-NS8-AN6	1.75 (44.6)	0.87 (22.2)	0.75 (19.1)	0.56 (14.1)	0.23 (5.8)	15000 (1034)
1/2	3/4-16	SS-HPHN-NS8-AN8	1.86 (47.2)	0.87 (22.2)	0.75 (19.1)	0.66 (16.7)	0.31 (8.0)	15000 (1034)
1/2	7/8-14	SS-HPHN-NS8-AN10	1.98 (50.4)	0.94 (23.8)	0.75 (19.1)	0.76 (19.3)	0.37 (9.4)	15000 (1034)
3/4	3/4-16	SS-HPHN-NS12-AN8	1.94 (49.4)	1.06 (27.0)	0.75 (19.1)	0.66 (16.7)	0.39 (9.9)	10000 (690)
3/4	7/8-14	SS-HPHN-NS12-AN10	2.05 (52.0)	1.06 (27.0)	0.75 (19.1)	0.76 (19.3)	0.48 (12.3)	10000 (690)
3/4	1 1/16-12	SS-HPHN-NS12-AN12	2.17 (55.0)	1.13 (28.6)	0.75 (19.1)	0.86 (21.9)	0.58 (14.8)	10000 (690)
3/4	1 5/16-12	SS-HPHN-NS12-AN16	2.30 (58.4)	1.37 (34.9)	0.75 (19.1)	0.91 (23.1)	0.58 (14.8)	10000 (690)
1	1 1/16-12	SS-HPHN-NS16-AN12	2.44 (62.0)	1.37 (34.9)	0.94 (23.9)	0.86 (21.9)	0.61 (15.5)	10000 (690)
1	1 5/16-12	SS-HPHN-NS16-AN16	2.49 (63.2)	1.37 (34.9)	0.94 (23.9)	0.91 (23.1)	0.79 (20.0)	10000 (690)

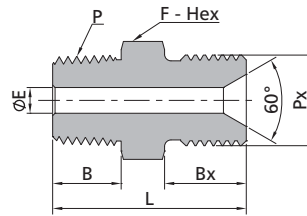
 Hex Nipples^①


Male NPT Threads			Male SAE/MS Straight Threads					
P-NPT Size, in.	Px-SAE/MS Thread Size, in.	Ordering Number	Dimensions, in. (mm)					Working Pressure psig (bar)
			L	F	B	Bx	E	
1/4	7/16-20	SS-HPHN-NS4-SH7	1.35 (34.2)	0.56 (14.3)	0.56 (14.2)	0.43 (11.0)	0.18 (4.5)	10000 (690)
1/4	9/16-18	SS-HPHN-NS4-SH9	1.43 (36.4)	0.69 (17.5)	0.56 (14.2)	0.47 (12.0)	0.28 (7.1)	10000 (690)
3/8	7/16-20	SS-HPHN-NS6-SH7	1.39 (35.4)	0.69 (17.5)	0.56 (14.2)	0.43 (11.0)	0.18 (4.5)	10000 (690)
3/8	9/16-18	SS-HPHN-NS6-SH9	1.43 (36.4)	0.69 (17.5)	0.56 (14.2)	0.47 (12.0)	0.30 (7.5)	10000 (690)
3/8	3/4-16	SS-HPHN-NS6-SH12	1.56 (39.6)	0.87 (22.2)	0.56 (14.2)	0.55 (14.0)	0.38 (9.6)	10000 (690)
1/2	9/16-18	SS-HPHN-NS8-SH9	1.67 (42.5)	0.87 (22.2)	0.75 (19.1)	0.47 (12.0)	0.30 (7.5)	10000 (690)
1/2	3/4-16	SS-HPHN-NS8-SH12	1.75 (44.5)	0.87 (22.2)	0.75 (19.1)	0.55 (14.0)	0.39 (10.0)	10000 (690)
1/2	7/8-14	SS-HPHN-NS8-SH14	1.88 (47.7)	1.00 (25.4)	0.75 (19.1)	0.63 (16.0)	0.47 (11.9)	10000 (690)
3/4	9/16-18	SS-HPHN-NS12-SH9	1.76 (44.7)	1.06 (27.0)	0.75 (19.1)	0.47 (12.0)	0.30 (7.5)	10000 (690)
3/4	3/4-16	SS-HPHN-NS12-SH12	1.84 (46.7)	1.06 (27.0)	0.75 (19.1)	0.55 (14.0)	0.39 (10.0)	10000 (690)
3/4	7/8-14	SS-HPHN-NS12-SH14	1.92 (48.7)	1.06 (27.0)	0.75 (19.1)	0.63 (16.0)	0.49 (12.5)	10000 (690)
1	3/4-16	SS-HPHN-NS16-SH12	2.13 (54.1)	1.37 (34.9)	0.94 (23.9)	0.55 (14.0)	0.39 (10.0)	10000 (690)
1	7/8-14	SS-HPHN-NS16-SH14	2.21 (56.1)	1.37 (34.9)	0.94 (23.9)	0.63 (16.0)	0.49 (12.5)	10000 (690)

① SAE/MS Heavy-Duty Stud Ends are supplied with a Fluorocarbon FKM O-ring as standard, other materials of O-rings available.

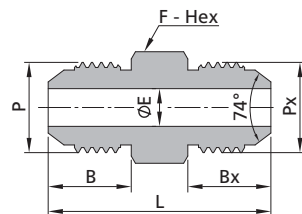
 Medium & High Pressure Fittings and Tubing
 Quick Couplings
 Medium & High Pressure Valves
 Line Filters
 Sour Service Products
 Subsea Valves
 Tools and Installation Instructions
 Technical Information

Hex Nipples



Male NPT Threads							Male Type "M"		
P-NPT Size, in.	Px-SAE/MS Thread Size, in.	Ordering Number	Dimensions, in. (mm)					Working Pressure psig (bar)	
			L	F	B	Bx	E		
1/8	9/16-18	SS-HPHN-NS2-HM9	1.22 (31.0)	0.63 (15.9)	0.38 (9.7)	0.50 (12.7)	0.09 (2.4)	15000 (1034)	
1/8	3/4-16	SS-HPHN-NS2-HM12	13.9 (35.3)	0.75 (19.1)	0.38 (9.7)	0.63 (16.0)	0.19 (4.8)	15000 (1034)	
1/4	9/16-18	SS-HPHN-NS4-HM9	1.40 (35.5)	0.63 (15.9)	0.56 (14.2)	0.50 (12.7)	0.09 (2.4)	15000 (1034)	
1/4	3/4-16	SS-HPHN-NS4-HM12	1.57 (39.8)	0.75 (19.1)	0.56 (14.2)	0.63 (16.0)	0.25 (6.4)	15000 (1034)	
1/4	7/8-14	SS-HPHN-NS4-HM14	1.77 (45.0)	1.00 (25.4)	0.56 (14.2)	0.76 (19.2)	0.15 (3.8)	15000 (1034)	
3/8	9/16-18	SS-HPHN-NS6-HM9	1.42 (36.1)	0.69 (17.5)	0.56 (14.2)	0.50 (12.7)	0.09 (2.4)	15000 (1034)	
3/8	3/4-16	SS-HPHN-NS6-HM12	1.57 (39.8)	0.75 (19.1)	0.56 (14.2)	0.63 (16.0)	0.29 (7.4)	15000 (1034)	
3/8	7/8-14	SS-HPHN-NS6-HM14	1.96 (49.9)	1.00 (25.4)	0.56 (14.2)	0.76 (19.2)	0.15 (3.8)	15000 (1034)	
1/2	9/16-18	SS-HPHN-NS8-HM9	1.66 (42.2)	0.87 (22.2)	0.75 (19.1)	0.50 (12.7)	0.09 (2.4)	15000 (1034)	
1/2	3/4-16	SS-HPHN-NS8-HM12	1.79 (45.5)	0.87 (22.2)	0.75 (19.1)	0.63 (16.0)	0.29 (7.4)	15000 (1034)	
1/2	7/8-14	SS-HPHN-NS8-HM14	1.96 (49.9)	1.00 (25.4)	0.75 (19.1)	0.76 (19.2)	0.15 (3.8)	15000 (1034)	
1/2	1-12	SS-HPHN-NS8-HM16	1.85 (47.0)	1.00 (25.4)	0.75 (19.1)	0.64 (16.3)	0.38 (9.6)	15000 (1034)	
3/4	9/16-18	SS-HPHN-NS12-HM9	1.75 (44.4)	1.06 (27.0)	0.75 (19.1)	0.50 (12.7)	0.09 (2.4)	10000 (690)	
3/4	3/4-16	SS-HPHN-NS12-HM12	1.88 (47.7)	1.06 (27.0)	0.75 (19.1)	0.63 (16.0)	0.29 (7.4)	10000 (690)	
3/4	7/8-14	SS-HPHN-NS12-HM14	2.00 (50.9)	1.06 (27.0)	0.75 (19.1)	0.76 (19.2)	0.15 (3.8)	10000 (690)	
3/4	1-12	SS-HPHN-NS12-HM16	1.89 (48.0)	1.06 (27.0)	0.75 (19.1)	0.64 (16.3)	0.39 (10.0)	10000 (690)	
1	1-12	SS-HPHN-NS16-HM16	2.18 (55.4)	1.37 (34.9)	0.94 (23.9)	0.64 (16.3)	0.39 (10.0)	10000 (690)	
1	1 5/16-12	SS-HPHN-NS16-HM21	2.16 (54.8)	1.37 (34.9)	0.94 (23.9)	0.62 (15.7)	0.69 (17.5)	10000 (690)	

Hex Nipples



Male JIC							Working Pressure psig (bar)		
P-SAE/MS Thread Size, in.	Px-SAE/MS Thread Size, in.	Ordering Number	Dimensions, in. (mm)					Working Pressure psig (bar)	
			L	F	B	Bx	E		
7/16-20	7/16-20	SS-HPHN-AN4	1.40 (35.6)	0.50 (12.7)	0.55 (14.0)	0.55 (14.0)	0.17 (4.4)	20000 (1379)	
9/16-18	7/16-20	SS-HPHN-AN6-AN4	1.48 (37.7)	0.63 (15.9)	0.56 (14.1)	0.55 (14.0)	0.17 (4.4)	20000 (1379)	
9/16-18	9/16-18	SS-HPHN-AN6	1.49 (37.8)	0.63 (15.9)	0.56 (14.1)	0.56 (14.1)	0.23 (5.8)	20000 (1379)	
3/4-16	9/16-18	SS-HPHN-AN8-AN6	1.65 (41.8)	0.81 (20.6)	0.66 (16.7)	0.56 (14.1)	0.23 (5.8)	20000 (1379)	
3/4-16	3/4-16	SS-HPHN-AN8	1.75 (44.4)	0.81 (20.6)	0.66 (16.7)	0.66 (16.7)	0.31 (8.0)	20000 (1379)	
7/8-14	9/16-18	SS-HPHN-AN10-AN6	1.79 (45.4)	0.94 (23.8)	0.76 (19.3)	0.56 (14.1)	0.23 (5.8)	20000 (1379)	
7/8-14	3/4-16	SS-HPHN-AN10-AN8	1.89 (48.0)	0.94 (23.8)	0.76 (19.3)	0.66 (16.7)	0.31 (8.0)	20000 (1379)	
7/8-14	7/8-14	SS-HPHN-AN10	1.99 (50.6)	0.94 (23.8)	0.76 (19.3)	0.76 (19.3)	0.37 (9.4)	20000 (1379)	
1 1/16-12	3/4-16	SS-HPHN-AN12-AN8	2.07 (52.6)	1.13 (28.6)	0.86 (21.9)	0.66 (16.7)	0.31 (8.0)	15000 (1034)	
1 1/16-12	7/8-14	SS-HPHN-AN12-AN10	2.17 (55.2)	1.13 (28.6)	0.86 (21.9)	0.76 (19.3)	0.37 (9.4)	15000 (1034)	
1 1/16-12	1 1/16-12	SS-HPHN-AN12	2.28 (57.8)	1.13 (28.6)	0.86 (21.9)	0.86 (21.9)	0.46 (11.6)	15000 (1034)	
1 5/16-12	7/8-14	SS-HPHN-AN16-AN10	2.31 (58.6)	1.37 (34.9)	0.91 (23.1)	0.76 (19.3)	0.37 (9.4)	15000 (1034)	
1 5/16-12	1 1/16-12	SS-HPHN-AN16-AN12	2.41 (61.2)	1.37 (34.9)	0.91 (23.1)	0.86 (21.9)	0.46 (11.6)	15000 (1034)	
1 5/16-12	1 5/16-12	SS-HPHN-AN16	2.46 (62.4)	1.37 (34.9)	0.91 (23.1)	0.91 (23.1)	0.57 (14.6)	15000 (1034)	

Medium & High Pressure Fittings and Tubing

Quick Couplings

Medium & High Pressure Valves

Line Filters

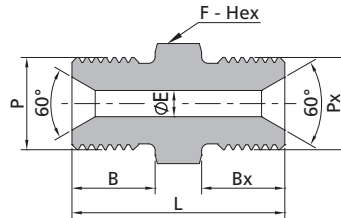
Sour Service Products

Subsea Valves

Tools and Installation Instructions

Technical Information

Hex Nipples



Male Type "M"			Dimensions, in. (mm)					Male Type "M"
Px-SAE/MS Thread Size, in.	Px-SAE/MS Thread Size, in.	Ordering Number	L	F	B	Bx	E	Working Pressure psig (bar)
3/4-16	9/16-18	SS-HPHN-HM12-HM9	1.51 (38.3)	0.75 (19.1)	0.63 (16.0)	0.50 (12.7)	0.09 (2.4)	30000 (2068)
3/4-16	3/4-16	SS-HPHN-HM12	1.64 (41.6)	0.75 (19.1)	0.63 (16.0)	0.63 (16.0)	0.29 (7.4)	30000 (2068)
7/8-14	9/16-18	SS-HPHN-HM14-HM9	1.71 (43.5)	1.00 (25.4)	0.76 (19.2)	0.50 (12.7)	0.09 (2.4)	50000 (3447)
7/8-14	3/4-16	SS-HPHN-HM14-HM12	1.84 (46.8)	1.00 (25.4)	0.76 (19.2)	0.63 (16.0)	0.15 (3.8)	30000 (2068)
7/8-14	7/8-14	SS-HPHN-HM14	1.97 (50.0)	1.00 (25.4)	0.76 (19.2)	0.76 (19.2)	0.15 (3.8)	50000 (3447)
1-12	9/16-18	SS-HPHN-HM16-HM9	1.60 (40.6)	1.00 (25.4)	0.64 (16.3)	0.50 (12.7)	0.09 (2.4)	30000 (2068)
1-12	3/4-16	SS-HPHN-HM16-HM12	1.73 (43.9)	1.00 (25.4)	0.64 (16.3)	0.63 (16.0)	0.29 (7.4)	30000 (2068)
1-12	7/8-14	SS-HPHN-HM16-HM14	1.85 (47.1)	1.00 (25.4)	0.64 (16.3)	0.76 (19.2)	0.15 (3.8)	30000 (2068)
1-12	1-12	SS-HPHN-HM16	1.74 (44.2)	1.00 (25.4)	0.64 (16.3)	0.64 (16.3)	0.39 (10.0)	30000 (2068)
1 5/16-12	1-12	SS-HPHN-HM21-HM16	1.86 (47.2)	1.37 (34.9)	0.62 (15.7)	0.64 (16.3)	0.39 (10.0)	20000 (1379)
1 5/16-12	1 5/16-12	SS-HPHN-HM21	1.83 (46.6)	1.37 (34.9)	0.62 (15.7)	0.62 (15.7)	0.69 (17.5)	20000 (1379)

 Medium & High Pressure
Fittings and Tubing

Quick Couplings

 Medium & High Pressure
Valves

Line Filters

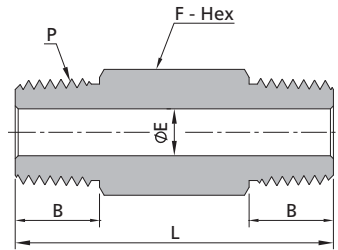
Sour Service Products

Subsea Valves

 Tools and Installation
Instructions

Technical Information

Hex Long Nipples



Male NPT Threads						
P-NPT Size, in.	Ordering Number	Dimensions, in. (mm)				Working Pressure psig (bar)
		L	F	B	E	
1/8	SS-HPLN-NS2-1.5	1.50 (38.1)	0.44 (11.1)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/8	SS-HPLN-NS2-2	2.00 (50.8)	0.44 (11.1)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/8	SS-HPLN-NS2-2.5	2.50 (63.5)	0.44 (11.1)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/8	SS-HPLN-NS2-3	3.00 (76.2)	0.44 (11.1)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/4	SS-HPLN-NS4-2	2.00 (50.8)	0.56 (14.3)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
1/4	SS-HPLN-NS4-2.5	2.50 (63.5)	0.56 (14.3)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
1/4	SS-HPLN-NS4-3	3.00 (76.2)	0.56 (14.3)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
1/4	SS-HPLN-NS4-4	4.00 (101.6)	0.56 (14.3)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
3/8	SS-HPLN-NS6-2	2.00 (50.8)	0.69 (17.5)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
3/8	SS-HPLN-NS6-2.5	2.50 (63.5)	0.69 (17.5)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
3/8	SS-HPLN-NS6-3	3.00 (76.2)	0.69 (17.5)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
3/8	SS-HPLN-NS6-4	4.00 (101.6)	0.69 (17.5)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
1/2	SS-HPLN-NS8-3	3.00 (76.2)	0.87 (22.2)	0.75 (19.1)	0.38 (9.6)	15000 (1034)
1/2	SS-HPLN-NS8-4	4.00 (101.6)	0.87 (22.2)	0.75 (19.1)	0.38 (9.6)	15000 (1034)
1/2	SS-HPLN-NS8-6	6.00 (152.4)	0.87 (22.2)	0.75 (19.1)	0.38 (9.6)	15000 (1034)
3/4	SS-HPLN-NS12-3	3.00 (76.2)	1.06 (27.0)	0.75 (19.1)	0.58 (14.8)	10000 (690)
3/4	SS-HPLN-NS12-4	4.00 (101.6)	1.06 (27.0)	0.75 (19.1)	0.58 (14.8)	10000 (690)
3/4	SS-HPLN-NS12-6	6.00 (152.4)	1.06 (27.0)	0.75 (19.1)	0.58 (14.8)	10000 (690)
3/4	SS-HPLN-NS12-8	8.00 (203.2)	1.06 (27.0)	0.75 (19.1)	0.58 (14.8)	10000 (690)
1	SS-HPLN-NS16-3	3.00 (76.2)	1.37 (34.9)	0.94 (23.9)	0.79 (20.0)	10000 (690)
1	SS-HPLN-NS16-4	4.00 (101.6)	1.37 (34.9)	0.94 (23.9)	0.79 (20.0)	10000 (690)
1	SS-HPLN-NS16-6	6.00 (152.4)	1.37 (34.9)	0.94 (23.9)	0.79 (20.0)	10000 (690)
1	SS-HPLN-NS16-8	8.00 (203.2)	1.37 (34.9)	0.94 (23.9)	0.79 (20.0)	10000 (690)

Medium & High Pressure Fittings and Tubing

Quick Couplings

Medium & High Pressure Valves

Line Filters

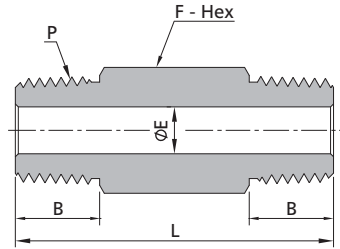
Sour Service Products

Subsea Valves

Tools and Installation Instructions

Technical Information

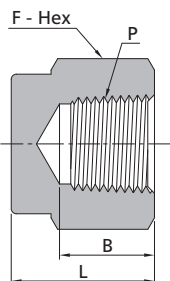
Hex Long Nipples



Male ISO/BSP Tapered Threads

P-ISO/BSP Tapered Size, in.	Ordering Number	Dimensions, in. (mm)				Working Pressure psig (bar)
		L	F	B	E	
1/8	SS-HPLN-RT2-1.5	1.50 (38.1)	0.44 (11.1)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/8	SS-HPLN-RT2-2	2.00 (50.8)	0.44 (11.1)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/8	SS-HPLN-RT2-2.5	2.50 (63.5)	0.44 (11.1)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/8	SS-HPLN-RT2-3	3.00 (76.2)	0.44 (11.1)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/4	SS-HPLN-RT4-2	2.00 (50.8)	0.56 (14.3)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
1/4	SS-HPLN-RT4-2.5	2.50 (63.5)	0.56 (14.3)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
1/4	SS-HPLN-RT4-3	3.00 (76.2)	0.56 (14.3)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
1/4	SS-HPLN-RT4-4	4.00 (101.6)	0.56 (14.3)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
3/8	SS-HPLN-RT6-2	2.00 (50.8)	0.69 (17.5)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
3/8	SS-HPLN-RT6-2.5	2.50 (63.5)	0.69 (17.5)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
3/8	SS-HPLN-RT6-3	3.00 (76.2)	0.69 (17.5)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
3/8	SS-HPLN-RT6-4	4.00 (101.6)	0.69 (17.5)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
1/2	SS-HPLN-RT8-3	3.00 (76.2)	0.87 (22.2)	0.75 (19.1)	0.38 (9.6)	15000 (1034)
1/2	SS-HPLN-RT8-4	4.00 (101.6)	0.87 (22.2)	0.75 (19.1)	0.38 (9.6)	15000 (1034)
1/2	SS-HPLN-RT8-6	6.00 (152.4)	0.87 (22.2)	0.75 (19.1)	0.38 (9.6)	15000 (1034)
3/4	SS-HPLN-RT12-3	3.00 (76.2)	1.06 (27.0)	0.75 (19.1)	0.58 (14.8)	10000 (690)
3/4	SS-HPLN-RT12-4	4.00 (101.6)	1.06 (27.0)	0.75 (19.1)	0.58 (14.8)	10000 (690)
3/4	SS-HPLN-RT12-6	6.00 (152.4)	1.06 (27.0)	0.75 (19.1)	0.58 (14.8)	10000 (690)
3/4	SS-HPLN-RT12-8	8.00 (203.2)	1.06 (27.0)	0.75 (19.1)	0.58 (14.8)	10000 (690)
1	SS-HPLN-RT16-3	3.00 (76.2)	1.37 (34.9)	0.94 (23.9)	0.79 (20.0)	10000 (690)
1	SS-HPLN-RT16-4	4.00 (101.6)	1.37 (34.9)	0.94 (23.9)	0.79 (20.0)	10000 (690)
1	SS-HPLN-RT16-6	6.00 (152.4)	1.37 (34.9)	0.94 (23.9)	0.79 (20.0)	10000 (690)
1	SS-HPLN-RT16-8	8.00 (203.2)	1.37 (34.9)	0.94 (23.9)	0.79 (20.0)	10000 (690)

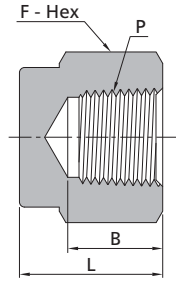
Pipe Caps



Female NPT Threads

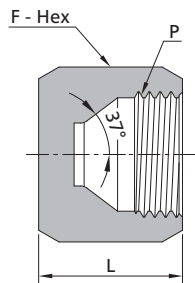
P-NPT Size, in.	Ordering Number	Dimensions, in. (mm)			Working Pressure psig (bar)
		L	F	B	
1/8	SS-HPC-NS2	0.75 (19.1)	0.63 (15.9)	0.41 (10.4)	15000 (1034)
1/4	SS-HPC-NS4	0.91 (23.1)	0.94 (23.8)	0.59 (15.0)	15000 (1034)
3/8	SS-HPC-NS6	1.03 (26.2)	1.13 (28.6)	0.59 (15.0)	15000 (1034)
1/2	SS-HPC-NS8	1.34 (34.0)	1.37 (34.9)	0.78 (19.8)	15000 (1034)
3/4	SS-HPC-NS12	1.62 (36.6)	1.50 (38.1)	0.81 (20.6)	10000 (690)
1	SS-HPC-NS16	1.62 (41.1)	44.5 (1.75)	1.00 (25.4)	10000 (690)

Pipe Caps



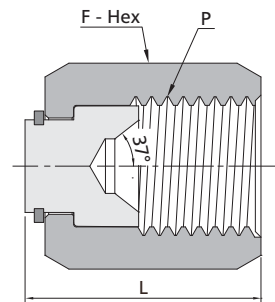
Female ISO/BSP Tapered Threads					
P-ISO/BSP Tapered Size, in.	Ordering Number	Dimensions, in. (mm)			Working Pressure psig (bar)
		L	F	B	
1/8	SS-HPC-RT2	0.75 (19.1)	0.63 (15.9)	0.41 (10.4)	15000 (1034)
1/4	SS-HPC-RT4	0.91 (23.1)	0.94 (23.8)	0.59 (15.0)	15000 (1034)
3/8	SS-HPC-RT6	1.03 (26.2)	1.13 (28.6)	0.59 (15.0)	15000 (1034)
1/2	SS-HPC-RT8	1.34 (34.0)	1.37 (34.9)	0.78 (19.8)	15000 (1034)
3/4	SS-HPC-RT12	1.62 (36.6)	1.50 (38.1)	0.81 (20.6)	10000 (690)
1	SS-HPC-RT16	1.62 (41.1)	1.75 (44.5)	1.00 (25.4)	10000 (690)

Pipe Caps



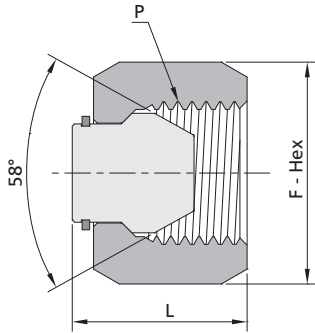
Female JIC				
P-SAE/MS Thread Size, in.	Ordering Number	Dimensions, in. (mm)		Working Pressure psig (bar)
		L	F	
7/16-20	SS-HPC-AN4	0.63 (16.1)	0.56 (14.3)	20000 (1379)
9/16-18	SS-HPC-AN6	0.72 (18.3)	0.69 (17.5)	20000 (1379)
3/4-16	SS-HPC-AN8	0.85 (21.6)	0.87 (22.2)	20000 (1379)
7/8-14	SS-HPC-AN10	0.98 (24.9)	1.00 (25.4)	20000 (1379)
1 1/16-12	SS-HPC-AN12	1.06 (26.8)	1.25 (31.8)	15000 (1034)
1 5/16-12	SS-HPC-AN16	1.18 (30.0)	1.50 (38.1)	15000 (1034)

Pipe Cap Assemblies (Moveable Insert)

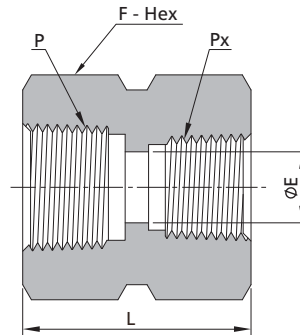


Moveable Insert Female JIC				
P-SAE/MS Thread Size, in.	Ordering Number	Dimensions, in. (mm)		Working Pressure psig (bar)
		L	F	
7/16-20	SS-HMC-AS4	0.67 (17.1)	0.56 (14.3)	20000 (1379)
9/16-18	SS-HMC-AS6	0.81 (20.5)	0.69 (17.5)	20000 (1379)
3/4-16	SS-HMC-AS8	0.94 (23.9)	0.87 (22.2)	20000 (1379)
7/8-14	SS-HMC-AS10	1.07 (27.1)	1.00 (25.4)	20000 (1379)
1 1/16-12	SS-HMC-AS12	1.24 (31.6)	1.25 (31.8)	15000 (1034)
1 5/16-12	SS-HMC-AS16	1.29 (32.8)	1.50 (38.1)	15000 (1034)

Medium & High Pressure Fittings and Tubing
Quick Couplings
Medium & High Pressure Valves
Line Filters
Sour Service Products
Subsea Valves
Tools and Installation Instructions
Technical Information

Pipe Cap Assemblies (Moveable Insert)


Moveable Insert Female Type "M"					
P-SAE/MS Thread Size, in.	Ordering Number	Dimensions, in. (mm)		Working Pressure psig (bar)	
		L	F		
9/16-18	SS-HMC-HM9	0.85 (21.6)	0.69 (17.5)	60000 (4137)	
3/4-16	SS-HMC-HM12	0.91 (23.1)	1.00 (25.4)	30000 (2068)	
7/8-14	SS-HMC-HM14	1.28 (32.5)	1.19 (30.2)	50000 (3447)	
1-12	SS-HMC-HM16	1.25 (31.8)	1.25 (31.8)	30000 (2068)	
1 1/16-12	SS-HMC-HM21	1.18 (30.0)	1.50 (38.1)	20000 (1379)	

Hex Couplings


Female NPT Threads						
P-NPT Size, in.	Px-NPT Size, in.	Ordering Number	Dimensions, in. (mm)			Working Pressure psig (bar)
			L	F	E	
1/8	1/8	SS-HPCG-NS2	0.94 (23.8)	0.63 (15.9)	0.31 (8.0)	15000 (1034)
1/4	1/8	SS-HPCG-NS4-NS2	1.14 (28.9)	0.94 (23.8)	0.31 (8.0)	15000 (1034)
1/4	1/4	SS-HPCG-NS4	1.32 (33.5)	0.94 (23.8)	0.41 (10.4)	15000 (1034)
3/8	1/8	SS-HPCG-NS6-NS2	1.14 (28.9)	1.13 (28.6)	0.31 (8.0)	15000 (1034)
3/8	1/4	SS-HPCG-NS6-NS4	1.32 (33.5)	1.13 (28.6)	0.41 (10.4)	15000 (1034)
3/8	3/8	SS-HPCG-NS6	1.32 (33.5)	1.13 (28.6)	0.54 (13.8)	15000 (1034)
1/2	1/8	SS-HPCG-NS8-NS2	1.35 (34.2)	1.37 (34.9)	0.31 (8.0)	15000 (1034)
1/2	1/4	SS-HPCG-NS8-NS4	1.53 (38.8)	1.37 (34.9)	0.41 (10.4)	15000 (1034)
1/2	3/8	SS-HPCG-NS8-NS6	1.53 (38.8)	1.37 (34.9)	0.54 (13.8)	15000 (1034)
1/2	1/2	SS-HPCG-NS8	1.72 (43.8)	1.37 (34.9)	0.67 (17.0)	15000 (1034)
3/4	1/8	SS-HPCG-NS12-NS2	1.40 (35.5)	1.50 (38.1)	0.31 (8.0)	10000 (690)
3/4	1/4	SS-HPCG-NS12-NS4	1.58 (40.1)	1.50 (38.1)	0.41 (10.4)	10000 (690)
3/4	3/8	SS-HPCG-NS12-NS6	1.58 (40.1)	1.50 (38.1)	0.54 (13.8)	10000 (690)
3/4	1/2	SS-HPCG-NS12-NS8	1.79 (45.4)	1.50 (38.1)	0.67 (17.0)	10000 (690)
3/4	3/4	SS-HPCG-NS12	1.84 (46.7)	1.50 (38.1)	0.88 (22.3)	10000 (690)
1	1/8	SS-HPCG-NS16-NS2	1.59 (40.5)	1.75 (44.5)	0.31 (8.0)	10000 (690)
1	1/4	SS-HPCG-NS16-NS4	1.76 (44.8)	1.75 (44.5)	0.41 (10.4)	10000 (690)
1	3/8	SS-HPCG-NS16-NS6	1.76 (44.8)	1.75 (44.5)	0.54 (13.8)	10000 (690)
1	1/2	SS-HPCG-NS16-NS8	1.96 (49.7)	1.75 (44.5)	0.67 (17.0)	10000 (690)
1	3/4	SS-HPCG-NS16-NS12	2.00 (50.7)	1.75 (44.5)	0.88 (22.3)	10000 (690)
1	1	SS-HPCG-NS16	2.19 (55.5)	1.75 (44.5)	1.11 (28.1)	10000 (690)

Medium & High Pressure Fittings and Tubing

Quick Couplings

Medium & High Pressure Valves

Line Filters

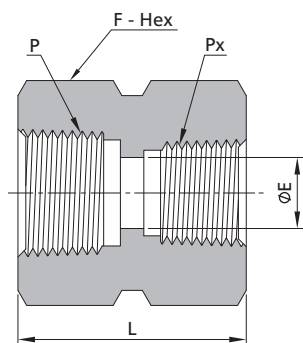
Sour Service Products

Subsea Valves

Tools and Installation Instructions

Technical Information

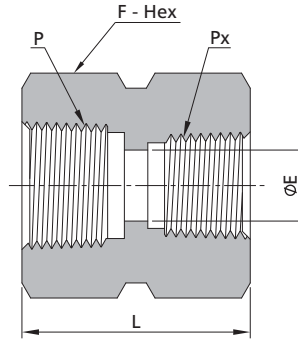
Hex Couplings



Female NPT Threads			Female ISO/BSP Tapered Threads			
P-NPT Size, in.	Px-ISO/BSP Tapered Size, in.	Ordering Number	Dimensions, in. (mm)			Working Pressure psig (bar)
			L	F	E	
1/8	1/8	SS-HPCG-NS2-RT2	0.94 (23.8)	0.63 (15.9)	0.31 (8.0)	15000 (1034)
1/4	1/8	SS-HPCG-NS4-RT2	1.14 (28.9)	0.94 (23.8)	0.31 (8.0)	15000 (1034)
1/4	1/4	SS-HPCG-NS4-RT4	1.32 (33.5)	0.94 (23.8)	0.41 (10.4)	15000 (1034)
3/8	1/8	SS-HPCG-NS6-RT2	1.14 (28.9)	1.13 (28.6)	0.31 (8.0)	15000 (1034)
3/8	1/4	SS-HPCG-NS6-RT4	1.32 (33.5)	1.13 (28.6)	0.41 (10.4)	15000 (1034)
3/8	3/8	SS-HPCG-NS6-RT6	1.32 (33.5)	1.13 (28.6)	0.54 (13.8)	15000 (1034)
1/2	1/8	SS-HPCG-NS8-RT2	1.35 (34.2)	1.37 (34.9)	0.31 (8.0)	15000 (1034)
1/2	1/4	SS-HPCG-NS8-RT4	1.53 (38.8)	1.37 (34.9)	0.41 (10.4)	15000 (1034)
1/2	3/8	SS-HPCG-NS8-RT6	1.53 (38.8)	1.37 (34.9)	0.54 (13.8)	15000 (1034)
1/2	1/2	SS-HPCG-NS8-RT8	1.72 (43.8)	1.37 (34.9)	0.67 (17.0)	15000 (1034)
3/4	1/8	SS-HPCG-NS12-RT2	1.40 (35.5)	1.50 (38.1)	0.31 (8.0)	10000 (690)
3/4	1/4	SS-HPCG-NS12-RT4	1.58 (40.1)	1.50 (38.1)	0.41 (10.4)	10000 (690)
3/4	3/8	SS-HPCG-NS12-RT6	1.58 (40.1)	1.50 (38.1)	0.54 (13.8)	10000 (690)
3/4	1/2	SS-HPCG-NS12-RT8	1.79 (45.4)	1.50 (38.1)	0.69 (17.4)	10000 (690)
3/4	3/4	SS-HPCG-NS12-RT12	1.84 (46.7)	1.50 (38.1)	0.88 (22.3)	10000 (690)
1	1/8	SS-HPCG-NS16-RT2	1.59 (40.5)	1.75 (44.5)	0.31 (8.0)	10000 (690)
1	1/4	SS-HPCG-NS16-RT4	1.76 (44.8)	1.75 (44.5)	0.41 (10.4)	10000 (690)
1	3/8	SS-HPCG-NS16-RT6	1.76 (44.8)	1.75 (44.5)	0.54 (13.8)	10000 (690)
1	1/2	SS-HPCG-NS16-RT8	1.96 (49.7)	1.75 (44.5)	0.69 (17.4)	10000 (690)
1	3/4	SS-HPCG-NS16-RT12	2.00 (50.7)	1.75 (44.5)	0.90 (22.8)	10000 (690)
1	1	SS-HPCG-NS16-RT16	2.19 (55.5)	1.75 (44.5)	1.11 (28.1)	10000 (690)

Medium & High Pressure Fittings and Tubing
 Quick Couplings
 Medium & High Pressure Valves
 Line Filters
 Sour Service Products
 Subsea Valves
 Tools and Installation Instructions
 Technical Information

Hex Couplings



Female ISO/BSP Tapered Threads						
P-ISO/BSP Tapered Size, in.	Px-ISO/BSP Tapered Size, in.	Ordering Number	Dimensions, in. (mm)			Working Pressure psig (bar)
			L	F	E	
1/8	1/8	SS-HPCG-RT2	0.94 (23.8)	0.63 (15.9)	0.31 (8.0)	15000 (1034)
1/4	1/8	SS-HPCG-RT4-RT2	1.14 (28.9)	0.94 (23.8)	0.31 (8.0)	15000 (1034)
1/4	1/4	SS-HPCG-RT4	1.32 (33.5)	0.94 (23.8)	0.41 (10.4)	15000 (1034)
3/8	1/8	SS-HPCG-RT6-RT2	1.14 (28.9)	1.13 (28.6)	0.31 (8.0)	15000 (1034)
3/8	1/4	SS-HPCG-RT6-RT4	1.32 (33.5)	1.13 (28.6)	0.41 (10.4)	15000 (1034)
3/8	3/8	SS-HPCG-RT6	1.32 (33.5)	1.13 (28.6)	0.54 (13.8)	15000 (1034)
1/2	1/8	SS-HPCG-RT8-RT2	1.35 (34.2)	1.37 (34.9)	0.31 (8.0)	15000 (1034)
1/2	1/4	SS-HPCG-RT8-RT4	1.53 (38.8)	1.37 (34.9)	0.41 (10.4)	15000 (1034)
1/2	3/8	SS-HPCG-RT8-RT6	1.53 (38.8)	1.37 (34.9)	0.54 (13.8)	15000 (1034)
1/2	1/2	SS-HPCG-RT8	1.72 (43.8)	1.37 (34.9)	0.69 (17.4)	15000 (1034)
3/4	1/8	SS-HPCG-RT12-RT2	1.40 (35.5)	1.50 (38.1)	0.31 (8.0)	10000 (690)
3/4	1/4	SS-HPCG-RT12-RT4	1.58 (40.1)	1.50 (38.1)	0.41 (10.4)	10000 (690)
3/4	3/8	SS-HPCG-RT12-RT6	1.58 (40.1)	1.50 (38.1)	0.54 (13.8)	10000 (690)
3/4	1/2	SS-HPCG-RT12-RT8	1.79 (45.4)	1.50 (38.1)	0.90 (22.8)	10000 (690)
3/4	3/4	SS-HPCG-RT12	1.84 (46.7)	1.50 (38.1)	1.13 (28.7)	10000 (690)
1	1/8	SS-HPCG-RT16-RT2	1.59 (40.5)	1.75 (44.5)	0.31 (8.0)	10000 (690)
1	1/4	SS-HPCG-RT16-RT4	1.76 (44.8)	1.75 (44.5)	0.41 (10.4)	10000 (690)
1	3/8	SS-HPCG-RT16-RT6	1.76 (44.8)	1.75 (44.5)	0.54 (13.8)	10000 (690)
1	1/2	SS-HPCG-RT16-RT8	1.96 (49.7)	1.75 (44.5)	0.69 (17.4)	10000 (690)
1	3/4	SS-HPCG-RT16-RT12	2.00 (50.7)	1.75 (44.5)	0.90 (22.8)	10000 (690)
1	1	SS-HPCG-RT16	2.19 (55.5)	1.75 (44.5)	1.13 (28.7)	10000 (690)

 Medium & High Pressure
Fittings and Tubing

Quick Couplings

 Medium & High Pressure
Valves

Line Filters

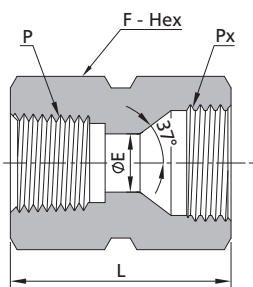
Sour Service Products

Subsea Valves

 Tools and Installation
Instructions

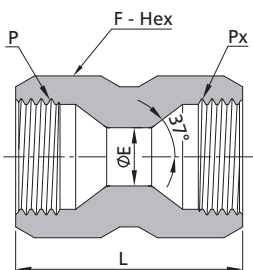
Technical Information

Hex Couplings



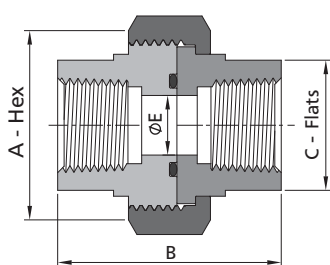
Female NPT Threads			Female JIC				
P-NPT Size, in.	Px-SAE/MS Thread Size, in.	Ordering Number	Dimensions, in. (mm)			Working Pressure psig (bar)	
			L	F	E		
1/8	7/16-20	SS-HPCG-NS2-AN4	1.12 (28.4)	0.63 (15.9)	0.17 (4.3)	15000 (1034)	
1/4	7/16-20	SS-HPCG-NS4-AN4	1.33 (33.7)	0.94 (23.8)	0.17 (4.3)	15000 (1034)	
1/4	9/16-18	SS-HPCG-NS4-AN6	1.36 (34.5)	0.94 (23.8)	0.30 (7.5)	15000 (1034)	
3/8	7/16-20	SS-HPCG-NS6-AN4	1.33 (33.7)	1.13 (28.6)	0.17 (4.3)	15000 (1034)	
3/8	9/16-18	SS-HPCG-NS6-AN6	1.36 (34.5)	1.13 (28.6)	0.30 (7.5)	15000 (1034)	
3/8	3/4-16	SS-HPCG-NS6-AN8	1.44 (36.5)	1.13 (28.6)	0.39 (9.9)	15000 (1034)	
1/2	9/16-18	SS-HPCG-NS8-AN6	1.56 (39.7)	1.37 (34.9)	0.30 (7.5)	15000 (1034)	
1/2	3/4-16	SS-HPCG-NS8-AN8	1.64 (41.7)	1.37 (34.9)	0.39 (9.9)	15000 (1034)	
1/2	7/8-14	SS-HPCG-NS8-AN10	1.74 (44.1)	1.37 (34.9)	0.48 (12.3)	15000 (1034)	

Hex Couplings



Female JIC						
P-SAE/MS Thread Size, in.	Px-SAE/MS Thread Size, in.	Ordering Number	Dimensions, in. (mm)			Working Pressure psig (bar)
			L	F	E	
7/16-20	7/16-20	SS-HPCG-AN4	1.24 (31.5)	0.56 (14.3)	0.17 (4.3)	20000 (1379)
9/16-18	7/16-20	SS-HPCG-AN6-AN4	1.27 (32.3)	0.69 (17.5)	0.17 (4.3)	20000 (1379)
9/16-18	9/16-18	SS-HPCG-AN6	1.33 (33.8)	0.69 (17.5)	0.30 (7.5)	20000 (1379)
3/4-16	9/16-18	SS-HPCG-AN8-AN6	1.39 (35.4)	0.87 (22.2)	0.30 (7.5)	20000 (1379)
3/4-16	3/4-16	SS-HPCG-AN8	1.48 (37.6)	0.87 (22.2)	0.39 (9.9)	20000 (1379)
7/8-14	3/4-16	SS-HPCG-AN10-AN8	1.57 (40.0)	1.00 (25.4)	0.39 (9.9)	20000 (1379)
7/8-14	7/8-14	SS-HPCG-AN10	1.68 (42.6)	1.00 (25.4)	0.48 (12.3)	20000 (1379)
1 1/16-12	7/8-14	SS-HPCG-AN12-AN10	1.74 (44.1)	1.37 (34.8)	0.48 (12.3)	15000 (1034)
1 1/16-12	1 1/16-12	SS-HPCG-AN12	1.80 (45.8)	1.25 (31.8)	0.61 (15.5)	15000 (1034)
1 5/16-12	1 1/16-12	SS-HPCG-AN16-AN12	1.89 (48.1)	1.50 (38.1)	0.61 (15.5)	15000 (1034)
1 5/16-12	1 5/16-12	SS-HPCG-AN16	1.97 (50.1)	1.50 (38.1)	0.84 (21.4)	15000 (1034)

Zero-Clearance Unions^①



Female NPT Threads						
P-NPT Size, in.	Ordering Number	Dimensions, in. (mm)				Working Pressure psig (bar)
		A	B	C	E	
1/8	SS-HPZC-NS2	1.06 (27.0)	1.75 (44.5)	0.62 (15.8)	0.31 (8.0)	15000 (1034)
1/4	SS-HPZC-NS4	1.50 (38.1)	2.00 (50.8)	0.94 (23.8)	0.41 (10.4)	15000 (1034)
3/8	SS-HPZC-NS6	1.75 (44.5)	2.25 (57.2)	1.12 (28.5)	0.54 (13.8)	15000 (1034)
1/2	SS-HPZC-NS8	2.00 (50.8)	2.50 (63.5)	1.37 (34.9)	0.67 (17.0)	15000 (1034)
3/4	SS-HPZC-NS12	2.25 (57.2)	2.75 (69.9)	1.50 (38.1)	0.88 (22.3)	10000 (690)

① Working temperature range with Fluorocarbon FKM O-rings: 0°F to 400°F (-17.8°C to 204°C), other materials of O-rings available.

Medium & High Pressure Fittings and Tubing

Quick Couplings

Medium & High Pressure Valves

Line Filters

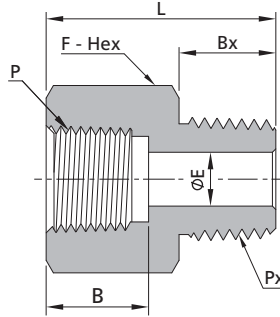
Sour Service Products

Subsea Valves

Tools and Installation

Technical Information

Adapters



Female NPT Threads			Dimensions, in. (mm)					Male NPT Threads
P-NPT Size, in.	Px-NPT Size, in.	Ordering Number	L	F	B	Bx	E	Working Pressure psig (bar)
1/8	1/8	SS-HPA-NS2	0.96 (24.5)	0.63 (15.9)	0.41 (10.4)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/8	1/4	SS-HPA-NS2-NS4	1.13 (28.8)	0.63 (15.9)	0.41 (10.4)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
1/8	3/8	SS-HPA-NS2-NS6	1.14 (29.0)	0.69 (17.5)	0.41 (10.4)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
1/8	1/2	SS-HPA-NS2-NS8	1.08 (27.4)	0.87 (22.2)	0.41 (10.4)	0.75 (19.1)	0.31 (8.0)	15000 (1034)
1/8	3/4	SS-HPA-NS2-NS12	1.08 (27.4)	1.06 (27.0)	0.41 (10.4)	0.75 (19.1)	0.31 (8.0)	10000 (690)
1/4	1/8	SS-HPA-NS4-NS2	1.25 (31.8)	0.94 (23.8)	0.59 (15.0)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/4	1/4	SS-HPA-NS4	1.37 (34.9)	0.94 (23.8)	0.59 (15.0)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
1/4	3/8	SS-HPA-NS4-NS6	1.37 (34.9)	0.94 (23.8)	0.59 (15.0)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
1/4	1/2	SS-HPA-NS4-NS8	1.58 (40.1)	0.94 (23.8)	0.59 (15.0)	0.75 (19.1)	0.38 (9.6)	15000 (1034)
1/4	3/4	SS-HPA-NS4-NS12	1.34 (34.1)	1.06 (27.0)	0.59 (15.0)	0.75 (19.1)	0.41 (10.4)	10000 (690)
1/4	1	SS-HPA-NS4-NS16	1.37 (34.8)	1.37 (34.9)	0.59 (15.0)	0.94 (23.9)	0.41 (10.4)	10000 (690)
3/8	1/4	SS-HPA-NS6-NS4	1.42 (36.0)	1.13 (28.6)	0.59 (15.0)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
3/8	3/8	SS-HPA-NS6	1.42 (36.0)	1.13 (28.6)	0.59 (15.0)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
3/8	1/2	SS-HPA-NS6-NS8	1.61 (41.0)	1.13 (28.6)	0.59 (15.0)	0.75 (19.1)	0.38 (9.6)	15000 (1034)
3/8	3/4	SS-HPA-NS6-NS12	1.61 (41.0)	1.06 (27.0)	0.59 (15.0)	0.75 (19.1)	0.54 (13.8)	10000 (690)
3/8	1	SS-HPA-NS6-NS16	1.47 (37.3)	1.37 (34.9)	0.59 (15.0)	0.94 (23.9)	0.54 (13.8)	10000 (690)
1/2	1/4	SS-HPA-NS8-NS4	1.72 (43.1)	1.37 (34.9)	0.78 (19.8)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
1/2	3/8	SS-HPA-NS8-NS6	1.72 (43.1)	1.37 (34.9)	0.78 (19.8)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
1/2	1/2	SS-HPA-NS8	1.89 (48.0)	1.37 (34.9)	0.78 (19.8)	0.75 (19.1)	0.38 (9.6)	15000 (1034)
1/2	3/4	SS-HPA-NS8-NS12	1.89 (48.0)	1.19 (30.2)	0.78 (19.8)	0.75 (19.1)	0.58 (14.8)	10000 (690)
1/2	1	SS-HPA-NS8-NS16	2.08 (52.8)	1.37 (34.9)	0.78 (19.8)	0.94 (23.9)	0.67 (17.0)	10000 (690)
3/4	1/2	SS-HPA-NS12-NS8	1.89 (48.1)	1.50 (38.1)	0.81 (20.6)	0.75 (19.1)	0.47 (11.9)	10000 (690)
3/4	3/4	SS-HPA-NS12	1.89 (48.1)	1.50 (38.1)	0.81 (20.6)	0.75 (19.1)	0.58 (14.8)	10000 (690)
3/4	1	SS-HPA-NS12-NS16	2.08 (52.9)	1.50 (38.1)	0.81 (20.6)	0.94 (23.9)	0.79 (20.0)	10000 (690)
1	1/2	SS-HPA-NS16-NS8	2.10 (53.3)	1.75 (44.5)	1.00 (25.4)	0.75 (19.1)	0.47 (11.9)	10000 (690)
1	3/4	SS-HPA-NS16-NS12	2.10 (53.3)	1.75 (44.5)	1.00 (25.4)	0.75 (19.1)	0.58 (14.8)	10000 (690)
1	1	SS-HPA-NS16	2.29 (58.1)	1.75 (44.5)	1.00 (25.4)	0.94 (23.9)	0.79 (20.0)	10000 (690)

Medium & High Pressure Fittings and Tubing

Quick Couplings

Medium & High Pressure Valves

Line Filters

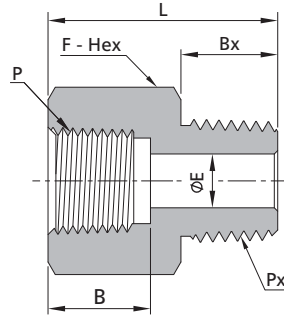
Sour Service Products

Subsea Valves

Tools and Installation Instructions

Technical Information

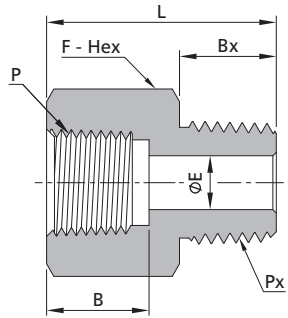
Adapters



Female NPT Threads			Male ISO/BSP Tapered Threads						
P-NPT Size, in.	Px-ISO/BSP Tapered Size, in.	Ordering Number	Dimensions, in. (mm)					Working Pressure psig (bar)	
			L	F	B	Bx	E		
1/8	1/8	SS-HPA-NS2-RT2	0.96 (24.5)	0.63 (15.9)	0.41 (10.4)	0.38 (9.7)	0.19 (4.8)	15000 (1034)	
1/8	1/4	SS-HPA-NS2-RT4	1.13 (28.8)	0.63 (15.9)	0.41 (10.4)	0.56 (14.2)	0.25 (6.4)	15000 (1034)	
1/8	3/8	SS-HPA-NS2-RT6	1.14 (29.0)	0.69 (17.5)	0.41 (10.4)	0.56 (14.2)	0.31 (7.9)	15000 (1034)	
1/8	1/2	SS-HPA-NS2-RT8	1.08 (27.4)	0.87 (22.2)	0.41 (10.4)	0.75 (19.1)	0.31 (8.0)	15000 (1034)	
1/8	3/4	SS-HPA-NS2-RT12	1.08 (27.4)	1.06 (27.0)	0.41 (10.4)	0.75 (19.1)	0.31 (8.0)	10000 (690)	
1/4	1/8	SS-HPA-NS4-RT2	1.25 (31.8)	0.94 (23.8)	0.59 (15.0)	0.38 (9.7)	0.19 (4.8)	15000 (1034)	
1/4	1/4	SS-HPA-NS4-RT4	1.37 (34.9)	0.94 (23.8)	0.59 (15.0)	0.56 (14.2)	0.25 (6.4)	15000 (1034)	
1/4	3/8	SS-HPA-NS4-RT6	1.37 (34.9)	0.94 (23.8)	0.59 (15.0)	0.56 (14.2)	0.31 (7.9)	15000 (1034)	
1/4	1/2	SS-HPA-NS4-RT8	1.58 (40.1)	0.94 (23.8)	0.59 (15.0)	0.75 (19.1)	0.38 (9.6)	15000 (1034)	
1/4	3/4	SS-HPA-NS4-RT12	1.34 (34.1)	1.06 (27.0)	0.59 (15.0)	0.75 (19.1)	0.41 (10.4)	10000 (690)	
1/4	1	SS-HPA-NS4-RT16	1.37 (34.8)	1.37 (34.9)	0.59 (15.0)	0.94 (23.9)	0.41 (10.4)	10000 (690)	
3/8	1/4	SS-HPA-NS6-RT4	1.42 (36.0)	1.13 (28.6)	0.59 (15.0)	0.56 (14.2)	0.25 (6.4)	15000 (1034)	
3/8	3/8	SS-HPA-NS6-RT6	1.42 (36.0)	1.13 (28.6)	0.59 (15.0)	0.56 (14.2)	0.31 (7.9)	15000 (1034)	
3/8	1/2	SS-HPA-NS6-RT8	1.61 (41.0)	1.13 (28.6)	0.59 (15.0)	0.75 (19.1)	0.38 (9.6)	15000 (1034)	
3/8	3/4	SS-HPA-NS6-RT12	1.61 (41.0)	1.06(27.0)	0.59 (15.0)	0.75 (19.1)	0.54 (13.8)	10000 (690)	
3/8	1	SS-HPA-NS6-RT16	1.47 (37.3)	1.37 (34.9)	0.59 (15.0)	0.94 (23.9)	0.54 (13.8)	10000 (690)	
1/2	1/4	SS-HPA-NS8-RT4	1.72 (43.1)	1.37 (34.9)	0.78 (19.8)	0.56 (14.2)	0.25 (6.4)	15000 (1034)	
1/2	3/8	SS-HPA-NS8-RT6	1.72 (43.1)	1.37 (34.9)	0.78 (19.8)	0.56 (14.2)	0.31 (7.9)	15000 (1034)	
1/2	1/2	SS-HPA-NS8-RT8	1.89 (48.0)	1.37 (34.9)	0.78 (19.8)	0.75 (19.1)	0.38 (9.6)	15000 (1034)	
1/2	3/4	SS-HPA-NS8-RT12	1.89 (48.0)	1.19 (30.2)	0.78 (19.8)	0.75 (19.1)	0.58 (14.8)	10000 (690)	
1/2	1	SS-HPA-NS8-RT16	2.08 (52.8)	1.37 (34.9)	0.78 (19.8)	0.94 (23.9)	0.67 (17.0)	10000 (690)	
3/4	1/2	SS-HPA-NS12-RT8	1.89 (48.1)	1.50 (38.1)	0.81 (20.6)	0.75 (19.1)	0.47 (11.9)	10000 (690)	
3/4	3/4	SS-HPA-NS12-RT12	1.89 (48.1)	1.50 (38.1)	0.81 (20.6)	0.75 (19.1)	0.58 (14.8)	10000 (690)	
3/4	1	SS-HPA-NS12-RT16	2.08 (52.9)	1.50 (38.1)	0.81 (20.6)	0.94 (23.9)	0.79 (20.0)	10000 (690)	
1	1/2	SS-HPA-NS16-RT8	2.10 (53.3)	1.75 (44.5)	1.00 (25.4)	0.75 (19.1)	0.47 (11.9)	10000 (690)	
1	3/4	SS-HPA-NS16-RT12	2.10 (53.3)	1.75 (44.5)	1.00 (25.4)	0.75 (19.1)	0.58 (14.8)	10000 (690)	
1	1	SS-HPA-NS16-RT16	2.29 (58.1)	1.75 (44.5)	1.00 (25.4)	0.94 (23.9)	0.79 (20.0)	10000 (690)	

Medium & High Pressure Fittings and Tubing
Quick Couplings
Medium & High Pressure Valves
Line Filters
Surf Service Products
Subsea Valves
Tools and Installation Instructions
Technical Information

Adapters



Female ISO/BSP Tapered Threads			Male ISO/BSP Tapered Threads					
P-ISO/BSP Tapered Size, in.	Px-ISO/BSP Tapered Size, in.	Ordering Number	Dimensions, in. (mm)					Working Pressure psig (bar)
			L	F	B	Bx	E	
1/8	1/8	SS-HPA-RT2	0.96 (24.5)	0.63 (15.9)	0.41 (10.4)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/8	1/4	SS-HPA-RT2-RT4	1.13 (28.8)	0.63 (15.9)	0.41 (10.4)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
1/8	3/8	SS-HPA-RT2-RT6	1.14 (29.0)	0.69 (17.5)	0.41 (10.4)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
1/8	1/2	SS-HPA-RT2-RT8	1.08 (27.4)	0.87 (22.2)	0.41 (10.4)	0.75 (19.1)	0.31 (8.0)	15000 (1034)
1/8	3/4	SS-HPA-RT2-RT12	1.08 (27.4)	1.06 (27.0)	0.41 (10.4)	0.75 (19.1)	0.31 (8.0)	10000 (690)
1/4	1/8	SS-HPA-RT4-RT2	1.25 (31.8)	0.94 (23.8)	0.59 (15.0)	0.38 (9.7)	0.19 (4.8)	15000 (1034)
1/4	1/4	SS-HPA-RT4	1.37 (34.9)	0.94 (23.8)	0.59 (15.0)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
1/4	3/8	SS-HPA-RT4-RT6	1.37 (34.9)	0.94 (23.8)	0.59 (15.0)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
1/4	1/2	SS-HPA-RT4-RT8	1.58 (40.1)	0.94 (23.8)	0.59 (15.0)	0.75 (19.1)	0.38 (9.6)	15000 (1034)
1/4	3/4	SS-HPA-RT4-RT12	1.34 (34.1)	1.06 (27.0)	0.59 (15.0)	0.75 (19.1)	0.41 (10.4)	10000 (690)
1/4	1	SS-HPA-RT4-RT16	1.37 (34.8)	1.37 (34.9)	0.59 (15.0)	0.94 (23.9)	0.41 (10.4)	10000 (690)
3/8	1/4	SS-HPA-RT6-RT4	1.42 (36.0)	1.13 (28.6)	0.59 (15.0)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
3/8	3/8	SS-HPA-RT6	1.42 (36.0)	1.13 (28.6)	0.59 (15.0)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
3/8	1/2	SS-HPA-RT6-RT8	1.61 (41.0)	1.13 (28.6)	0.59 (15.0)	0.75 (19.1)	0.38 (9.6)	15000 (1034)
3/8	3/4	SS-HPA-RT6-RT12	1.61 (41.0)	1.06 (27.0)	0.59 (15.0)	0.75 (19.1)	0.54 (13.8)	10000 (690)
3/8	1	SS-HPA-RT6-RT16	1.47 (37.3)	1.37 (34.9)	0.59 (15.0)	0.94 (23.9)	0.54 (13.8)	10000 (690)
1/2	1/4	SS-HPA-RT8-RT4	1.72 (43.1)	1.37 (34.9)	0.78 (19.8)	0.56 (14.2)	0.25 (6.4)	15000 (1034)
1/2	3/8	SS-HPA-RT8-RT6	1.72 (43.1)	1.37 (34.9)	0.78 (19.8)	0.56 (14.2)	0.31 (7.9)	15000 (1034)
1/2	1/2	SS-HPA-RT8	1.89 (48.0)	1.37 (34.9)	0.78 (19.8)	0.75 (19.1)	0.38 (9.6)	15000 (1034)
1/2	3/4	SS-HPA-RT8-RT12	1.89 (48.0)	1.19 (30.2)	0.78 (19.8)	0.75 (19.1)	0.58 (14.8)	10000 (690)
1/2	1	SS-HPA-RT8-RT16	2.08 (52.8)	1.37 (34.9)	0.78 (19.8)	0.94 (23.9)	0.69 (17.4)	10000 (690)
3/4	1/2	SS-HPA-RT12-RT8	1.89 (48.1)	1.50 (38.1)	0.81 (20.6)	0.75 (19.1)	0.47 (11.9)	10000 (690)
3/4	3/4	SS-HPA-RT12	1.89 (48.1)	1.50 (38.1)	0.81 (20.6)	0.75 (19.1)	0.58 (14.8)	10000 (690)
3/4	1	SS-HPA-RT12-RT16	2.08 (52.9)	1.50 (38.1)	0.81 (20.6)	0.94 (23.9)	0.79 (20.0)	10000 (690)
1	1/2	SS-HPA-RT16-RT8	2.10 (53.3)	1.75 (44.5)	1.00 (25.4)	0.75 (19.1)	0.47 (11.9)	10000 (690)
1	3/4	SS-HPA-RT16-RT12	2.10 (53.3)	1.75 (44.5)	1.00 (25.4)	0.75 (19.1)	0.58 (14.8)	10000 (690)
1	1	SS-HPA-RT16	2.29 (58.1)	1.75 (44.5)	1.00 (25.4)	0.94 (23.9)	0.79 (20.0)	10000 (690)

Medium & High Pressure Fittings and Tubing

Quick Couplings

Medium & High Pressure Valves

Line Filters

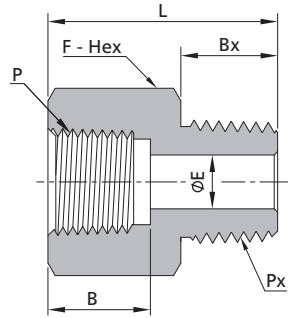
Sour Service Products

Subsea Valves

Tools and Installation Instructions

Technical Information

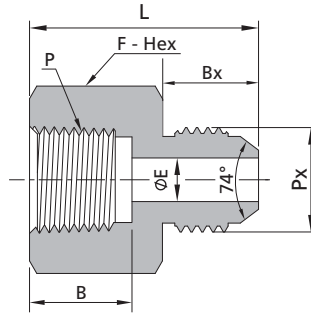
Adapters



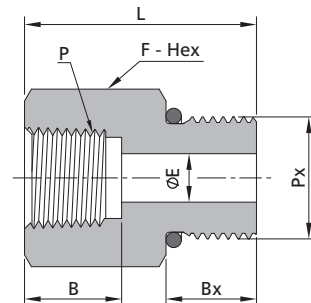
Female ISO/BSP Tapered Threads			Dimensions, in. (mm)					Male NPT Threads	Working Pressure psig (bar)
P-ISO/BSP Tapered Size, in.	Px-NPT Size, in.	Ordering Number	L	F	B	Bx	E		
1/8	1/8	SS-HPA-RT2-NS2	0.96 (24.5)	0.63 (15.9)	0.41 (10.4)	0.38 (9.7)	0.19 (4.8)	15000 (1034)	
1/8	1/4	SS-HPA-RT2-NS4	1.13 (28.8)	0.63 (15.9)	0.41 (10.4)	0.56 (14.2)	0.25 (6.4)	15000 (1034)	
1/8	3/8	SS-HPA-RT2-NS6	1.14 (29.0)	0.69 (17.5)	0.41 (10.4)	0.56 (14.2)	0.31 (7.9)	15000 (1034)	
1/8	1/2	SS-HPA-RT2-NS8	1.08 (27.4)	0.87 (22.2)	0.41 (10.4)	0.75 (19.1)	0.31 (8.0)	15000 (1034)	
1/8	3/4	SS-HPA-RT2-NS12	1.08 (27.4)	1.06 (27.0)	0.41 (10.4)	0.75 (19.1)	0.31 (8.0)	10000 (690)	
1/4	1/8	SS-HPA-RT4-NS2	1.25 (31.8)	0.94 (23.8)	0.59 (15.0)	0.38 (9.7)	0.19 (4.8)	15000 (1034)	
1/4	1/4	SS-HPA-RT4-NS4	1.37 (34.9)	0.94 (23.8)	0.59 (15.0)	0.56 (14.2)	0.25 (6.4)	15000 (1034)	
1/4	3/8	SS-HPA-RT4-NS6	1.37 (34.9)	0.94 (23.8)	0.59 (15.0)	0.56 (14.2)	0.31 (7.9)	15000 (1034)	
1/4	1/2	SS-HPA-RT4-NS8	1.58 (40.1)	0.94 (23.8)	0.59 (15.0)	0.75 (19.1)	0.38 (9.6)	15000 (1034)	
1/4	3/4	SS-HPA-RT4-NS12	1.34 (34.1)	1.06 (27.0)	0.59 (15.0)	0.75 (19.1)	0.41 (10.4)	10000 (690)	
1/4	1	SS-HPA-RT4-NS16	1.37 (34.8)	1.37 (34.9)	0.59 (15.0)	0.94 (23.9)	0.41 (10.4)	10000 (690)	
3/8	1/4	SS-HPA-RT6-NS4	1.42 (36.0)	1.13 (28.6)	0.59 (15.0)	0.56 (14.2)	0.25 (6.4)	15000 (1034)	
3/8	3/8	SS-HPA-RT6-NS6	1.42 (36.0)	1.13 (28.6)	0.59 (15.0)	0.56 (14.2)	0.31 (7.9)	15000 (1034)	
3/8	1/2	SS-HPA-RT6-NS8	1.61 (41.0)	1.13 (28.6)	0.59 (15.0)	0.75 (19.1)	0.38 (9.6)	15000 (1034)	
3/8	3/4	SS-HPA-RT6-NS12	1.61 (41.0)	1.06 (27.0)	0.59 (15.0)	0.75 (19.1)	0.54 (13.8)	10000 (690)	
3/8	1	SS-HPA-RT6-NS16	1.47 (37.3)	1.37 (34.9)	0.59 (15.0)	0.94 (23.9)	0.54 (13.8)	10000 (690)	
1/2	1/4	SS-HPA-RT8-NS4	1.72 (43.1)	1.37 (34.9)	0.78 (19.8)	0.56 (14.2)	0.25 (6.4)	15000 (1034)	
1/2	3/8	SS-HPA-RT8-NS6	1.72 (43.1)	1.37 (34.9)	0.78 (19.8)	0.56 (14.2)	0.31 (7.9)	15000 (1034)	
1/2	1/2	SS-HPA-RT8-NS8	1.89 (48.0)	1.37 (34.9)	0.78 (19.8)	0.75 (19.1)	0.38 (9.6)	15000 (1034)	
1/2	3/4	SS-HPA-RT8-NS12	1.89 (48.0)	1.19 (30.2)	0.78 (19.8)	0.75 (19.1)	0.58 (14.8)	10000 (690)	
1/2	1	SS-HPA-RT8-NS16	2.08 (52.8)	1.37 (34.9)	0.78 (19.8)	0.94 (23.9)	0.69 (17.4)	10000 (690)	
3/4	1/2	SS-HPA-RT12-NS8	1.89 (48.1)	1.50 (38.1)	0.81 (20.6)	0.75 (19.1)	0.47 (11.9)	10000 (690)	
3/4	3/4	SS-HPA-RT12-NS12	1.89 (48.1)	1.50 (38.1)	0.81 (20.6)	0.75 (19.1)	0.58 (14.8)	10000 (690)	
3/4	1	SS-HPA-RT12-NS16	2.08 (52.9)	1.50 (38.1)	0.81 (20.6)	0.94 (23.9)	0.79 (20.0)	10000 (690)	
1	1/2	SS-HPA-RT16-NS8	2.10 (53.3)	1.75 (44.5)	1.00 (25.4)	0.75 (19.1)	0.47 (11.9)	10000 (690)	
1	3/4	SS-HPA-RT16-NS12	2.10 (53.3)	1.75 (44.5)	1.00 (25.4)	0.75 (19.1)	0.58 (14.8)	10000 (690)	
1	1	SS-HPA-RT16-NS16	2.29 (58.1)	1.75 (44.5)	1.00 (25.4)	0.94 (23.9)	0.79 (20.0)	10000 (690)	

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- Line Filters
- Surf Service Products
- Subsea Valves
- Tools and Installation Instructions
- Technical Information

Adapters



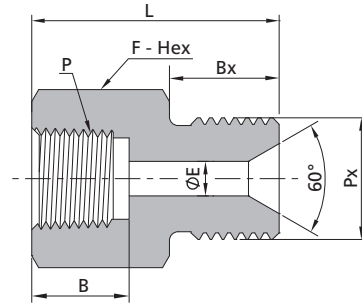
Female NPT Threads			Dimensions, in. (mm)					Male JIC
P-NPT Size, in.	Px-SAE/MS Thread Size, in.	Ordering Number	L	F	B	Bx	E	Working Pressure psig (bar)
			1/8	7/16-20	SS-HPA-NS2-AN4	1.09 (27.8)	0.63 (15.9)	
1/4	7/16-20	SS-HPA-NS4-AN4	1.37 (34.9)	0.94 (23.8)	0.59 (15.0)	0.55 (14.0)	0.17 (4.4)	15000 (1034)
1/4	9/16-18	SS-HPA-NS4-AN6	1.32 (33.5)	0.94 (23.8)	0.59 (15.0)	0.56 (14.1)	0.23 (5.8)	15000 (1034)
3/8	9/16-18	SS-HPA-NS6-AN6	1.37 (34.8)	1.13 (28.6)	0.59 (15.0)	0.56 (14.1)	0.23 (5.8)	15000 (1034)
3/8	3/4-16	SS-HPA-NS6-AN8	1.47 (37.4)	1.13 (28.6)	0.59 (15.0)	0.66 (16.7)	0.31 (8.0)	15000 (1034)
1/2	3/4-16	SS-HPA-NS8-AN8	1.72 (43.6)	1.37 (34.9)	0.78 (19.8)	0.66 (16.7)	0.31 (8.0)	15000 (1034)
1/2	7/8-14	SS-HPA-NS8-AN10	1.82 (46.2)	1.37 (34.9)	0.78 (19.8)	0.76 (19.3)	0.41 (10.4)	15000 (1034)
1/2	1 1/16-12	SS-HPA-NS8-AN12	1.92 (48.8)	1.37 (34.9)	0.78 (19.8)	0.86 (21.9)	0.46 (11.6)	15000 (1034)
3/4	1 1/16-12	SS-HPA-NS12-AN12	1.89 (47.9)	1.50 (38.1)	0.81 (20.6)	0.86 (21.9)	0.61 (15.5)	10000 (690)
1	1 5/16-12	SS-HPA-NS16-AN16	2.18 (55.3)	1.75 (44.5)	1.00 (25.4)	0.91 (23.1)	0.84 (21.4)	10000 (690)

 Adapters^①


Female NPT Threads			Dimensions, in. (mm)					Male SAE/MS Straight Threads
P-NPT Size, in.	Px-SAE/MS Thread Size, in.	Ordering Number	L	F	B	Bx	E	Working Pressure psig (bar)
			1/4	7/16-20	SS-HPA-NS4-SH7	1.20 (30.5)	0.75 (19.1)	
3/8	9/16-18	SS-HPA-NS6-SH9	1.29 (32.7)	0.94 (23.8)	0.59 (15.0)	0.47 (12.0)	0.30 (7.5)	10000 (690)
1/2	3/4-16	SS-HPA-NS8-SH12	1.61 (40.9)	1.19 (30.2)	0.78 (19.8)	0.55 (14.0)	0.39 (10.0)	10000 (690)
3/4	7/8-14	SS-HPA-NS12-SH14	1.67 (42.5)	1.50 (38.1)	0.81 (20.6)	0.63 (16.0)	0.49 (12.5)	10000 (690)

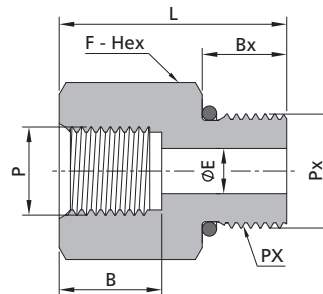
① SAE/MS Heavy-Duty Stud Ends are supplied with a Fluorocarbon FKM O-ring as standard, other materials of O-rings available.

Adapters



Female NPT Threads			Male Type "M"					
P-NPT Size, in.	Px-SAE/MS Thread Size, in.	Ordering Number	Dimensions, in. (mm)					Working Pressure psig (bar)
			L	F	B	Bx	E	
1/8	9/16-18	SS-HPA-NS2-HM9	1.13 (28.6)	0.63 (15.9)	0.41 (10.4)	0.50 (12.7)	0.09 (2.4)	15000 (1034)
1/4	9/16-18	SS-HPA-NS4-HM9	1.37 (34.9)	0.94 (23.8)	0.59 (15.0)	0.50 (12.7)	0.09 (2.4)	15000 (1034)
1/4	3/4-16	SS-HPA-NS4-HM12	1.50 (38.1)	0.94 (23.8)	0.59 (15.0)	0.63 (16.0)	0.29 (7.4)	15000 (1034)
3/8	9/16-18	SS-HPA-NS6-HM9	1.44 (36.5)	1.13 (28.6)	0.59 (15.0)	0.50 (12.7)	0.09 (2.4)	15000 (1034)
3/8	3/4-16	SS-HPA-NS6-HM12	1.56 (39.7)	1.13 (28.6)	0.59 (15.0)	0.63 (16.0)	0.29 (7.4)	15000 (1034)
1/2	9/16-18	SS-HPA-NS8-HM9	1.63 (41.3)	1.37 (34.9)	0.78 (19.8)	0.50 (12.7)	0.09 (2.4)	15000 (1034)
1/2	3/4-16	SS-HPA-NS8-HM12	1.75 (44.4)	1.37 (34.9)	0.78 (19.8)	0.63 (16.0)	0.29 (7.4)	15000 (1034)
1/2	7/8-14	SS-HPA-NS8-HM14	1.87 (47.6)	1.37 (34.9)	0.78 (19.8)	0.76 (19.2)	0.15 (3.8)	15000 (1034)
3/4	1-12	SS-HPA-NS12-HM16	1.87 (47.6)	1.50 (38.1)	0.81 (20.6)	0.64 (16.3)	0.39 (10.0)	10000 (690)
1	1 5/16-12	SS-HPA-NS16-HM21	2.06 (52.4)	1.75 (44.5)	1.00 (25.4)	0.62 (15.7)	0.69 (17.5)	10000 (690)

Adapters^①



Female SAE/MS Straight Threads			Male SAE/MS Straight Threads					
P-SAE/MS Thread Size, in.	Px-SAE/MS Thread Size, in.	Ordering Number	Dimensions, in. (mm)					Working Pressure psig (bar)
			L	F	B	Bx	E	
7/16-20	9/16-18	SS-HPA-US7-SH9	1.25 (31.8)	0.81 (20.6)	0.55 (14.0)	0.47 (12.0)	0.18 (4.5)	10000 (690)
7/16-20	3/4-16	SS-HPA-US7-SH12	1.25 (31.8)	0.87 (22.2)	0.55 (14.0)	0.55 (14.0)	0.18 (4.5)	10000 (690)
9/16-18	3/4-16	SS-HPA-US9-SH12	1.42 (36.0)	1.00 (25.4)	0.61 (15.5)	0.55 (14.0)	0.30 (7.5)	10000 (690)
9/16-18	7/8-14	SS-HPA-US9-SH14	1.42 (36.0)	1.00 (25.4)	0.61 (15.5)	0.63 (16.0)	0.30 (7.5)	10000 (690)
3/4-16	7/8-14	SS-HPA-US12-SH14	1.65 (41.8)	30.2 (30.2)	0.69 (17.5)	0.63 (16.0)	0.39 (10.0)	10000 (690)

① SAE/MS Heavy-Duty Stud Ends are supplied with a Fluorocarbon FKM O-ring as standard, other materials of O-rings available.

Medium & High Pressure Fittings and Tubing

Quick Couplings

Medium & High Pressure Valves

Line Filters

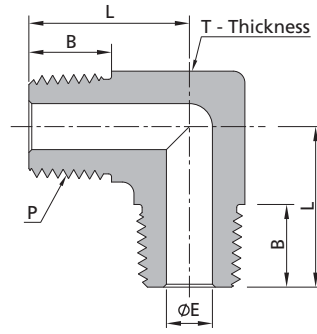
Sour Service Products

Subsea Valves

Tools and Installation Instructions

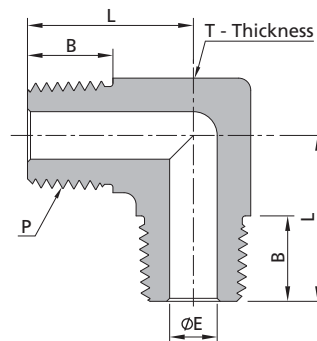
Technical Information

Male Elbows



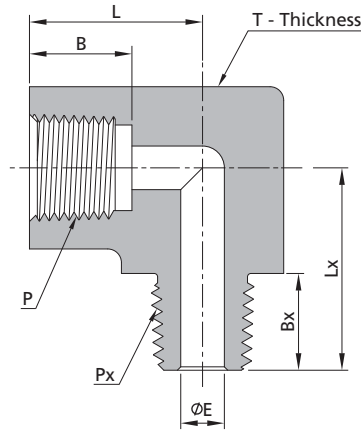
Male NPT Threads						
P-NPT Size, in.	Ordering Number	Dimensions, in. (mm)				Working Pressure psig (bar)
		L	B	E	T	
1/8	SS-HPME-NS2	0.75 (19.1)	0.38 (9.7)	0.19 (4.8)	0.50 (12.7)	15000 (1034)
1/4	SS-HPME-NS4	1.00 (25.4)	0.56 (14.2)	0.25 (6.4)	0.63 (15.9)	15000 (1034)
3/8	SS-HPME-NS6	1.10 (28.0)	0.56 (14.2)	0.31 (7.9)	0.75 (19.1)	15000 (1034)
1/2	SS-HPME-NS8	1.44 (36.6)	0.75 (19.1)	0.38 (9.6)	1.00 (25.4)	15000 (1034)
3/4	SS-HPME-NS12	1.56 (39.6)	0.75 (19.1)	0.58 (14.8)	1.37 (34.9)	10000 (690)
1	SS-HPME-NS16	1.89 (48.0)	0.94 (23.9)	0.79 (20.0)	1.50 (38.1)	10000 (690)

Male Elbows



Male ISO/BSP Tapered Pipe Threads						
P-ISO/BSP Tapered Size, in.	Ordering Number	Dimensions, in. (mm)				Working Pressure psig (bar)
		L	B	E	T	
1/8	SS-HPME-RT2	0.75 (19.1)	0.38 (9.7)	0.19 (4.8)	0.50 (12.7)	15000 (1034)
1/4	SS-HPME-RT4	1.00 (25.4)	0.56 (14.2)	0.25 (6.4)	0.63 (15.9)	15000 (1034)
3/8	SS-HPME-RT6	1.10 (28.0)	0.56 (14.2)	0.31 (7.9)	0.75 (19.1)	15000 (1034)
1/2	SS-HPME-RT8	1.44 (36.6)	0.75 (19.1)	0.38 (9.6)	1.00 (25.4)	15000 (1034)
3/4	SS-HPME-RT12	1.56 (39.6)	0.75 (19.1)	0.58 (14.8)	1.37 (34.9)	10000 (690)
1	SS-HPME-RT16	1.89 (48.0)	0.94 (23.9)	0.79 (20.0)	1.50 (38.1)	10000 (690)

Street Elbows



Female NPT Threads			Male NPT Threads						
P-NPT Size, in.	Px-NPT Size, in.	Ordering Number	Dimensions, in. (mm)						Working Pressure psig (bar)
			L	B	E	Lx	Bx	T	
1/8	1/8	SS-HPSE-NS2	0.75 (19.1)	0.41 (10.4)	0.19 (4.8)	0.75 (19.1)	0.38 (9.7)	0.63 (15.9)	15000 (1034)
1/8	1/4	SS-HPSE-NS2-NS4	0.78 (19.8)	0.41 (10.4)	0.25 (6.4)	1.00 (25.4)	0.56 (14.2)	0.63 (15.9)	15000 (1034)
1/8	3/8	SS-HPSE-NS2-NS6	0.95 (24.2)	0.41 (10.4)	0.31 (7.9)	1.07 (27.2)	0.56 (14.2)	0.75 (19.1)	15000 (1034)
1/4	1/4	SS-HPSE-NS4	1.00 (25.4)	0.59 (15.0)	0.25 (6.4)	1.06 (27.0)	0.56 (14.2)	0.75 (19.1)	15000 (1034)
1/4	3/8	SS-HPSE-NS4-NS6	1.00 (25.4)	0.59 (15.0)	0.31 (7.9)	1.06 (27.0)	0.56 (14.2)	0.75 (19.1)	15000 (1034)
1/4	1/2	SS-HPSE-NS4-NS8	1.15 (29.1)	0.59 (15.0)	0.38 (9.6)	1.40 (35.5)	0.75 (19.1)	1.00 (25.4)	15000 (1034)
3/8	3/8	SS-HPSE-NS6	1.20 (30.6)	0.59 (15.0)	0.31 (7.9)	1.20 (30.6)	0.56 (14.2)	1.00 (25.4)	15000 (1034)
3/8	1/2	SS-HPSE-NS6-NS8	1.20 (30.6)	0.59 (15.0)	0.38 (9.6)	1.38 (35.0)	0.75 (19.1)	1.00 (25.4)	15000 (1034)
3/8	3/4	SS-HPSE-NS6-NS12	1.23 (31.2)	0.59 (15.0)	0.54 (13.8)	1.56 (39.6)	0.75 (19.1)	1.37 (34.9)	10000 (690)
1/2	1/2	SS-HPSE-NS8	1.50 (38.1)	0.78 (19.8)	0.38 (9.6)	1.61 (40.8)	0.75 (19.1)	1.37 (34.9)	15000 (1034)
1/2	3/4	SS-HPSE-NS8-NS12	1.43 (36.2)	0.78 (19.8)	0.58 (14.8)	1.61 (40.8)	0.75 (19.1)	1.37 (34.9)	10000 (690)
1/2	1	SS-HPSE-NS8-NS16	1.45 (36.9)	0.78 (19.8)	0.67 (17.0)	1.86 (47.3)	0.94 (23.9)	1.37 (34.9)	10000 (690)
3/4	3/4	SS-HPSE-NS12	1.50 (38.1)	0.81 (20.6)	0.58 (14.8)	1.77 (44.9)	0.75 (19.1)	1.50 (38.1)	10000 (690)
3/4	1	SS-HPSE-NS12-NS16	1.63 (41.4)	0.81 (20.6)	0.79 (20.0)	1.86 (47.3)	0.94 (23.9)	1.50 (38.1)	10000 (690)
1	1	SS-HPSE-NS16	1.91 (48.5)	1.00 (25.4)	0.79 (20.0)	2.07 (52.5)	0.94 (23.9)	1.75 (44.5)	10000 (690)

Medium & High Pressure Fittings and Tubing

Quick Couplings

Medium & High Pressure Valves

Line Filters

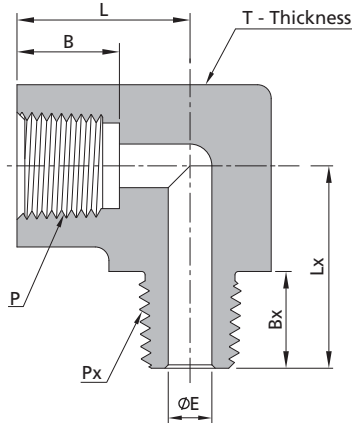
Surf Service Products

Subsea Valves

Tools and Installation Instructions

Technical Information

Street Elbows



Female ISO/BSP Tapered Pipe Threads			Male ISO/BSP Tapered Threads						
P-ISO/BSP Tapered Size, in.	Px-ISO/BSP Tapered Size, in.	Ordering Number	Dimensions, in. (mm)						Working Pressure psig (bar)
			L	B	E	Lx	Bx	T	
1/8	1/8	SS-HPSE-RT2	0.75 (19.1)	0.41 (10.4)	0.19 (4.8)	0.75 (19.1)	0.38 (9.7)	0.63 (15.9)	15000 (1034)
1/8	1/4	SS-HPSE-RT2-RT4	0.78 (19.8)	0.41 (10.4)	0.25 (6.4)	1.00 (25.4)	0.56 (14.2)	0.63 (15.9)	15000 (1034)
1/8	3/8	SS-HPSE-RT2-RT6	0.95 (24.2)	0.41 (10.4)	0.31 (7.9)	1.07 (27.2)	0.56 (14.2)	0.75 (19.1)	15000 (1034)
1/4	1/4	SS-HPSE-RT4	1.00 (25.4)	0.59 (15.0)	0.25 (6.4)	1.06 (27.0)	0.56 (14.2)	0.75 (19.1)	15000 (1034)
1/4	3/8	SS-HPSE-RT4-RT6	1.00 (25.4)	0.59 (15.0)	0.31 (7.9)	1.06 (27.0)	0.56 (14.2)	0.75 (19.1)	15000 (1034)
1/4	1/2	SS-HPSE-RT4-RT8	1.15 (29.1)	0.59 (15.0)	0.38 (9.6)	1.40 (35.5)	0.75 (19.1)	1.00 (25.4)	15000 (1034)
3/8	3/8	SS-HPSE-RT6	1.20 (30.6)	0.59 (15.0)	0.31 (7.9)	1.20 (30.6)	0.56 (14.2)	1.00 (25.4)	15000 (1034)
3/8	1/2	SS-HPSE-RT6-RT8	1.20 (30.6)	0.59 (15.0)	0.38 (9.6)	1.38 (35.0)	0.75 (19.1)	1.00 (25.4)	15000 (1034)
3/8	3/4	SS-HPSE-RT6-RT12	1.23 (31.2)	0.59 (15.0)	0.54 (13.8)	1.56 (39.6)	0.75 (19.1)	1.37 (34.9)	10000 (690)
1/2	1/2	SS-HPSE-RT8	1.50 (38.1)	0.78 (19.8)	0.38 (9.6)	1.61 (40.8)	0.75 (19.1)	1.37 (34.9)	15000 (1034)
1/2	3/4	SS-HPSE-RT8-RT12	1.43 (36.2)	0.78 (19.8)	0.58 (14.8)	1.61 (40.8)	0.75 (19.1)	1.37 (34.9)	10000 (690)
1/2	1	SS-HPSE-RT8-RT16	1.45 (36.9)	0.78 (19.8)	0.67 (17.0)	1.86 (47.3)	0.94 (23.9)	1.37 (34.9)	10000 (690)
3/4	3/4	SS-HPSE-RT12	1.50 (38.1)	0.81 (20.6)	0.58 (14.8)	1.77 (44.9)	0.75 (19.1)	1.50 (38.1)	10000 (690)
3/4	1	SS-HPSE-RT12-RT16	1.63 (41.4)	0.81 (20.6)	0.79 (20.0)	1.86 (47.3)	0.94 (23.9)	1.50 (38.1)	10000 (690)
1	1	SS-HPSE-RT16	1.91 (48.5)	1.00 (25.4)	0.79 (20.0)	2.07 (52.5)	0.94 (23.9)	1.75 (44.5)	10000 (690)

Medium & High Pressure Fittings and Tubing

Quick Couplings

Medium & High Pressure Valves

Line Filters

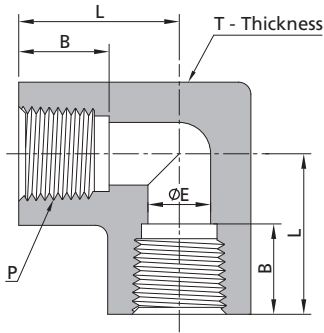
Sour Service Products

Subsea Valves

Tools and Installation Instructions

Technical Information

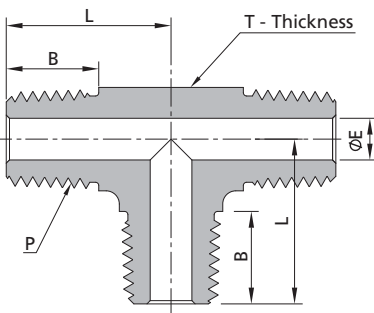
Female Elbows



Female NPT Threads						
P-NPT Size, in.	Ordering Number	Dimensions, in. (mm)				Working Pressure psig (bar)
		L	B	E	T	
1/8	SS-HPE-NS2	0.75 (19.1)	0.41 (10.4)	0.31 (8.0)	0.63 (15.9)	15000 (1034)
1/4	SS-HPE-NS4	1.00 (25.4)	0.59 (15.0)	0.41 (10.4)	0.75 (19.1)	15000 (1034)
3/8	SS-HPE-NS6	1.20 (30.6)	0.59 (15.0)	0.54 (13.8)	1.00 (25.4)	15000 (1034)
1/2	SS-HPE-NS8	1.50 (38.1)	0.78 (19.8)	0.67 (17.0)	1.37 (34.9)	15000 (1034)
3/4	SS-HPE-NS12	1.50 (38.1)	0.81 (20.6)	0.88 (22.3)	1.50 (38.1)	10000 (690)
1	SS-HPE-NS16	1.91 (48.5)	1.00 (25.4)	1.11 (28.1)	1.75 (44.5)	10000 (690)

Female ISO/BSP Tapered Threads						
P-ISO/BSP Tapered Size, in.	Ordering Number	Dimensions, in. (mm)				Working Pressure psig (bar)
		L	B	E	T	
1/8	SS-HPE-RT2	0.75 (19.1)	0.41 (10.4)	0.31 (8.0)	0.63 (15.9)	15000 (1034)
1/4	SS-HPE-RT4	1.00 (25.4)	0.59 (15.0)	0.41 (10.4)	0.75 (19.1)	15000 (1034)
3/8	SS-HPE-RT6	1.20 (30.6)	0.59 (15.0)	0.54 (13.8)	1.00 (25.4)	15000 (1034)
1/2	SS-HPE-RT8	1.50 (38.1)	0.78 (19.8)	0.69 (17.4)	1.37 (34.9)	15000 (1034)
3/4	SS-HPE-RT12	1.50 (38.1)	0.81 (20.6)	0.90 (22.8)	1.50 (38.1)	10000 (690)
1	SS-HPE-RT16	1.91 (48.5)	1.00 (25.4)	1.13 (28.7)	1.75 (44.5)	10000 (690)

Male Tees

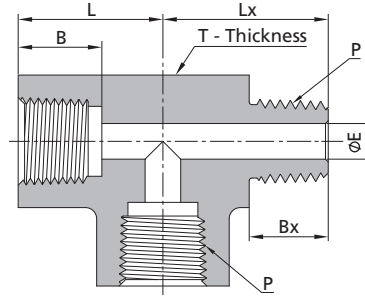


Male NPT Threads						
P-NPT Size, in.	Ordering Number	Dimensions, in. (mm)				Working Pressure psig (bar)
		L	B	E	T	
1/8	SS-HPMT-NS2	0.75 (19.1)	0.38 (9.7)	0.19 (4.8)	0.50 (12.7)	15000 (1034)
1/4	SS-HPMT-NS4	1.00 (25.4)	0.56 (14.2)	0.25 (6.4)	0.63 (15.9)	15000 (1034)
3/8	SS-HPMT-NS6	1.10 (28.0)	0.56 (14.2)	0.31 (7.9)	0.75 (19.1)	15000 (1034)
1/2	SS-HPMT-NS8	1.44 (36.6)	0.75 (19.1)	0.38 (9.6)	1.00 (25.4)	15000 (1034)
3/4	SS-HPMT-NS12	1.56 (39.6)	0.75 (19.1)	0.58 (14.8)	1.37 (34.9)	10000 (690)
1	SS-HPMT-NS16	1.89 (48.0)	0.94 (23.9)	0.79 (20.0)	1.50 (38.1)	10000 (690)

Male ISO/BSP Tapered Threads						
P-ISO/BSP Tapered Size, in.	Ordering Number	Dimensions, in. (mm)				Working Pressure psig (bar)
		L	B	E	T	
1/8	SS-HPMT-RT2	0.75 (19.1)	0.38 (9.7)	0.19 (4.8)	0.50 (12.7)	15000 (1034)
1/4	SS-HPMT-RT4	1.00 (25.4)	0.56 (14.2)	0.25 (6.4)	0.63 (15.9)	15000 (1034)
3/8	SS-HPMT-RT6	1.10 (28.0)	0.56 (14.2)	0.31 (7.9)	0.75 (19.1)	15000 (1034)
1/2	SS-HPMT-RT8	1.44 (36.6)	0.75 (19.1)	0.38 (9.6)	1.00 (25.4)	15000 (1034)
3/4	SS-HPMT-RT12	1.56 (39.6)	0.75 (19.1)	0.58 (14.8)	1.37 (34.9)	10000 (690)
1	SS-HPMT-RT16	1.89 (48.0)	0.94 (23.9)	0.79 (20.0)	1.50 (38.1)	10000 (690)

Medium & High Pressure Fittings and Tubing
Quick Couplings
Medium & High Pressure Valves
Line Filters
Sour Service Products
Subsea Valves
Tools and Installation Instructions
Technical Information

Male Street Tees



NPT Threads								
P-NPT Size, in.	Ordering Number	Dimensions, in. (mm)						Working Pressure psig (bar)
		L	B	Lx	Bx	E	T	
1/8	SS-HPST-NS2	0.75 (19.1)	0.41 (10.4)	0.75 (19.1)	0.38 (9.7)	0.19 (4.8)	0.63 (15.9)	15000 (1034)
1/4	SS-HPST-NS4	1.00 (25.4)	0.59 (15.0)	1.06 (27.0)	0.56 (14.2)	0.25 (6.4)	0.75 (19.1)	15000 (1034)
3/8	SS-HPST-NS6	1.20 (30.6)	0.59 (15.0)	1.20 (30.6)	0.56 (14.2)	0.31 (7.9)	1.00 (25.4)	15000 (1034)
1/2	SS-HPST-NS8	1.50 (38.1)	0.78 (19.8)	1.61 (40.8)	0.75 (19.1)	0.38 (9.6)	1.37 (34.9)	15000 (1034)
3/4	SS-HPST-NS12	1.50 (38.1)	0.81 (20.6)	1.77 (44.9)	0.75 (19.1)	0.58 (14.8)	1.50 (38.1)	10000 (690)
1	SS-HPST-NS16	1.91 (48.5)	1.00 (25.4)	2.07 (52.5)	0.94 (23.9)	0.79 (20.0)	1.75 (44.5)	10000 (690)

ISO/BSP Tapered Pipe Threads								
P-ISO/BSP Tapered Size, in.	Ordering Number	Dimensions, in. (mm)						Working Pressure psig (bar)
		L	B	Lx	Bx	E	T	
1/8	SS-HPST-RT2	0.75 (19.1)	0.41 (10.4)	0.75 (19.1)	0.38 (9.7)	0.19 (4.8)	0.63 (15.9)	15000 (1034)
1/4	SS-HPST-RT4	1.00 (25.4)	0.59 (15.0)	1.06 (27.0)	0.56 (14.2)	0.25 (6.4)	0.75 (19.1)	15000 (1034)
3/8	SS-HPST-RT6	1.20 (30.6)	0.59 (15.0)	1.20 (30.6)	0.56 (14.2)	0.31 (7.9)	1.00 (25.4)	15000 (1034)
1/2	SS-HPST-RT8	1.50 (38.1)	0.78 (19.8)	1.61 (40.8)	0.75 (19.1)	0.38 (9.6)	1.37 (34.9)	15000 (1034)
3/4	SS-HPST-RT12	1.50 (38.1)	0.81 (20.6)	1.77 (44.9)	0.75 (19.1)	0.58 (14.8)	1.50 (38.1)	10000 (690)
1	SS-HPST-RT16	1.91 (48.5)	1.00 (25.4)	2.07 (52.5)	0.94 (23.9)	0.79 (20.0)	1.75 (44.5)	10000 (690)

Medium & High Pressure Fittings and Tubing

Quick Couplings

Medium & High Pressure Valves

Line Filters

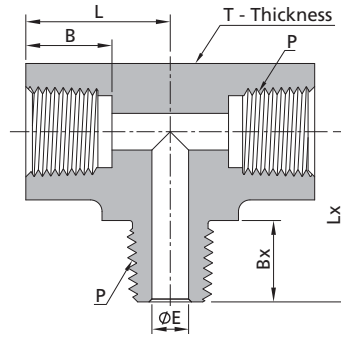
Sour Service Products

Subsea Valves

Tools and Installation Instructions

Technical Information

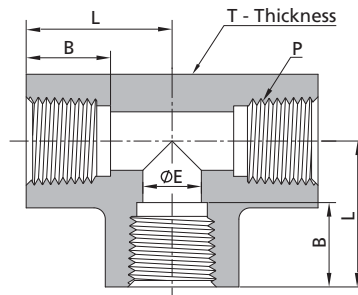
Male Branch Tees



NPT Threads								
P-NPT Size, in.	Ordering Number	Dimensions, in. (mm)						Working Pressure psig (bar)
		L	B	Lx	Bx	E	T	
1/8	SS-HPBT-NS2	0.75 (19.1)	0.41 (10.4)	0.75 (19.1)	0.38 (9.7)	0.19 (4.8)	0.63 (15.9)	15000 (1034)
1/4	SS-HPBT-NS4	1.00 (25.4)	0.59 (15.0)	1.06 (27.0)	0.56 (14.2)	0.25 (6.4)	0.75 (19.1)	15000 (1034)
3/8	SS-HPBT-NS6	1.20 (30.6)	0.59 (15.0)	1.20 (30.6)	0.56 (14.2)	0.31 (7.9)	1.00 (25.4)	15000 (1034)
1/2	SS-HPBT-NS8	1.50 (38.1)	0.78 (19.8)	1.61 (40.8)	0.75 (19.1)	0.38 (9.6)	1.37 (34.9)	15000 (1034)
3/4	SS-HPBT-NS12	1.50 (38.1)	0.81 (20.6)	1.77 (44.9)	0.75 (19.1)	0.58 (14.8)	1.50 (38.1)	10000 (690)
1	SS-HPBT-NS16	1.91 (48.5)	1.00 (25.4)	2.07 (52.5)	0.94 (23.9)	0.79 (20.0)	1.75 (44.5)	10000 (690)

ISO/BSP Tapered Pipe Threads								
P-ISO/BSP Tapered Size, in.	Ordering Number	Dimensions, in. (mm)						Working Pressure psig (bar)
		L	B	Lx	Bx	E	T	
1/8	SS-HPBT-RT2	0.75 (19.1)	0.41 (10.4)	0.75 (19.1)	0.38 (9.7)	0.19 (4.8)	0.63 (15.9)	15000 (1034)
1/4	SS-HPBT-RT4	1.00 (25.4)	0.59 (15.0)	1.06 (27.0)	0.56 (14.2)	0.25 (6.4)	0.75 (19.1)	15000 (1034)
3/8	SS-HPBT-RT6	1.20 (30.6)	0.59 (15.0)	1.20 (30.6)	0.56 (14.2)	0.31 (7.9)	1.00 (25.4)	15000 (1034)
1/2	SS-HPBT-RT8	1.50 (38.1)	0.78 (19.8)	1.61 (40.8)	0.75 (19.1)	0.38 (9.6)	1.37 (34.9)	15000 (1034)
3/4	SS-HPBT-RT12	1.50 (38.1)	0.81 (20.6)	1.77 (44.9)	0.75 (19.1)	0.58 (14.8)	1.50 (38.1)	10000 (690)
1	SS-HPBT-RT16	1.91 (48.5)	1.00 (25.4)	2.07 (52.5)	0.94 (23.9)	0.79 (20.0)	1.75 (44.5)	10000 (690)

Female Tees

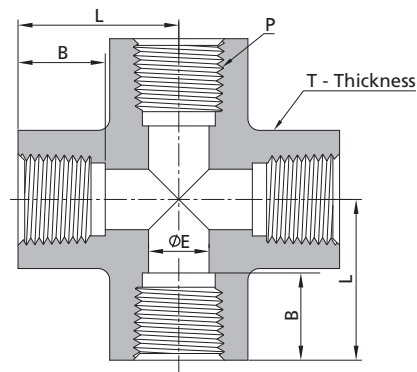


Female NPT Threads						
P-NPT Size, in.	Ordering Number	Dimensions, in. (mm)				Working Pressure psig (bar)
		L	B	E	T	
1/8	SS-HPT-NS2	0.75 (19.1)	0.41 (10.4)	0.31 (8.0)	0.63 (15.9)	15000 (1034)
1/4	SS-HPT-NS4	1.00 (25.4)	0.59 (15.0)	0.41 (10.4)	0.75 (19.1)	15000 (1034)
3/8	SS-HPT-NS6	1.20 (30.6)	0.59 (15.0)	0.54 (13.8)	1.00 (25.4)	15000 (1034)
1/2	SS-HPT-NS8	1.50 (38.1)	0.78 (19.8)	0.67 (17.0)	1.37 (34.9)	15000 (1034)
3/4	SS-HPT-NS12	1.50 (38.1)	0.81 (20.6)	0.88 (22.3)	1.50 (38.1)	10000 (690)
1	SS-HPT-NS16	1.91 (48.5)	1.00 (25.4)	1.11 (28.1)	1.75 (44.5)	10000 (690)

Medium & High Pressure Fittings and Tubing
Quick Couplings
Medium & High Pressure Valves
Line Filters
Surf Service Products
Subsea Valves
Tools and Installation Instructions
Technical Information

Female ISO/BSP Tapered Pipe Threads						
P-ISO/BSP Tapered Size, in.	Ordering Number	Dimensions, in. (mm)				Working Pressure psig (bar)
		L	B	E	T	
1/8	SS-HPT-RT2	0.75 (19.1)	0.41 (10.4)	0.31 (8.0)	0.63 (15.9)	15000 (1034)
1/4	SS-HPT-RT4	1.00 (25.4)	0.59 (15.0)	0.41 (10.4)	0.75 (19.1)	15000 (1034)
3/8	SS-HPT-RT6	1.20 (30.6)	0.59 (15.0)	0.54 (13.8)	1.00 (25.4)	15000 (1034)
1/2	SS-HPT-RT8	1.50 (38.1)	0.78 (19.8)	0.69 (17.4)	1.37 (34.9)	15000 (1034)
3/4	SS-HPT-RT12	1.50 (38.1)	0.81 (20.6)	0.90 (22.8)	1.50 (38.1)	10000 (690)
1	SS-HPT-RT16	1.91 (48.5)	1.00 (25.4)	1.13 (28.7)	1.75 (44.5)	10000 (690)

Female Crosses

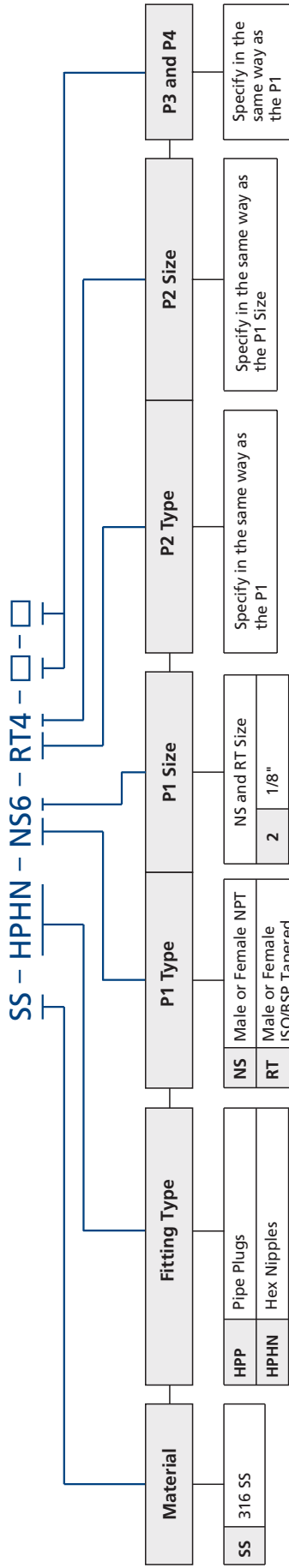


Female NPT Threads						
P-NPT Size, in.	Ordering Number	Dimensions, in. (mm)				Working Pressure psig (bar)
		L	B	E	T	
1/8	SS-HPCR-NS2	0.75 (19.1)	0.41 (10.4)	0.31 (8.0)	0.63 (15.9)	15000 (1034)
1/4	SS-HPCR-NS4	1.00 (25.4)	0.59 (15.0)	0.41 (10.4)	0.75 (19.1)	15000 (1034)
3/8	SS-HPCR-NS6	1.20 (30.6)	0.59 (15.0)	0.54 (13.8)	1.00 (25.4)	15000 (1034)
1/2	SS-HPCR-NS8	1.50 (38.1)	0.78 (19.8)	0.67 (17.0)	1.37 (34.9)	15000 (1034)
3/4	SS-HPCR-NS12	1.50 (38.1)	0.81 (20.6)	0.88 (22.3)	1.50 (38.1)	10000 (690)
1	SS-HPCR-NS16	1.91 (48.5)	1.00 (25.4)	1.11 (28.1)	1.75 (44.5)	10000 (690)

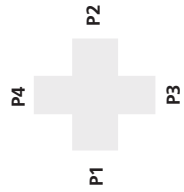
Female ISO/BSP Tapered Pipe Threads						
P-ISO/BSP Tapered Size, in.	Ordering Number	Dimensions, in. (mm)				Working Pressure psig (bar)
		L	B	E	T	
1/8	SS-HPCR-RT2	0.75 (19.1)	0.41 (10.4)	0.31 (8.0)	0.63 (15.9)	15000 (1034)
1/4	SS-HPCR-RT4	1.00 (25.4)	0.59 (15.0)	0.41 (10.4)	0.75 (19.1)	15000 (1034)
3/8	SS-HPCR-RT6	1.20 (30.6)	0.59 (15.0)	0.54 (13.8)	1.00 (25.4)	15000 (1034)
1/2	SS-HPCR-RT8	1.50 (38.1)	0.78 (19.8)	0.69 (17.4)	1.37 (34.9)	15000 (1034)
3/4	SS-HPCR-RT12	1.50 (38.1)	0.81 (20.6)	0.90 (22.8)	1.50 (38.1)	10000 (690)
1	SS-HPCR-RT16	1.91 (48.5)	1.00 (25.4)	1.13 (28.7)	1.75 (44.5)	10000 (690)

NOTE: All dimensions are for reference only and subject to change.

Ordering Number Description



NOTE: "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.



Fitting Type		P1 Type	P1 Size	P2 Type	P2 Size	P3 and P4
HPP	Pipe Plugs	NS	NS and RT Size	Specify in the same way as the P1	Specify in the same way as the P1 Size	Specify in the same way as the P1
HPHN	Hex Nipples	RT	2 1/8"			
HPLN	Hex Long Nipples	SH	4 1/4"			
HPC	Pipe Caps	US	6 3/8"			
HMC	Pipe Cap Assemblies (Moveable Insert)	AN	8 1/2"			
HPCG	Hex Couplings	AS	12 3/4"			
HPZC	Zero-Clearance Unions	HM	16 1"			
HPA	Adapters		SH, US and HM Thread Size			
HPME	Male Elbows		7 7/16-20			
HPSE	Street Elbows		9 9/16-18			
HPE	Female Elbows		12 3/4-16			
HPMT	Male Tees		14 7/8-14			
HPST	Male Street Tees		16 1-12			
HPBT	Male Branch Tees		21 1 5/16-12			
HPT	Female Tees		AN and AS Thread Size			
HPCR	Female Crosses		4 7/16-20			
			6 9/16-18			
			8 3/4-16			
			10 7/8-14			
			12 1 1/16-12			
			16 1 5/16-12			

P1, P2, P3 and P4 shall be described in the following orders:

- ① Describe the female thread end first if there is any
- ② For male connections: NPT - ISO/BSP Tapered - Heavy-Duty Stud Ends - JIC (37° Flare) - Male Type "M"
- ③ For female connections: NPT - ISO/BSP Tapered - Ports with O-ring seal in truncated housing - JIC (37° Flare)
- ④ Describe in descending order as per size if the end connection types are the same
- ⑤ Describe the end of P1 if all end connections are the same

FIRTECH

Al. Piłsudskiego 34, 05-270 Marki, Polska

Tel.: +48 22 435-82-44, **Fax.:** +48 22 427-52-66

e-mail: FITOK@FITOKGROUP.PL

FK-IC-GF-12-ZH-171225