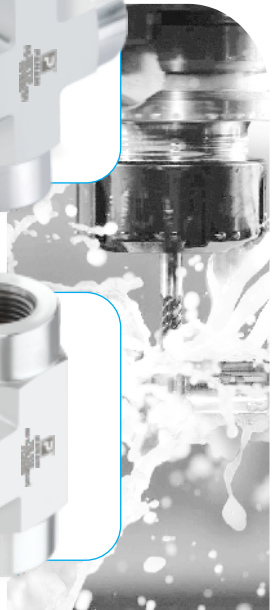




PANAM[®]
ENGINEERING
BEYOND
LIMITS

High Pressure Pipe Fittings

Maximum Working Pressure upto
15000 psi (1034 bar).



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Rev/03/2022

Introduction

PANAM[®] has emerged as renowned name in Global market for 'Instrumentation Fittings & Valves'. Since its inception in 1998 to present day, **PANAM**[®] has added new product every year and has broadened its product portfolio and its clientele base by supplying to potential customers worldwide. Key core values like Timely Delivery, Quality Consistency, Product Improvisation and after sales service has been instrumental in the phase wise evolution of company. Continuous improvement is the key to success, Customer feedback are taken with positive attitude and product are constantly groomed to a new quality and performance level to cope up with the competition. Our products are known for providing high-quality, high-reliability, low-cost options for the oil and gas industry. Over the year, the company has evolved from a product based company to a complete system solution provider. Over the coming years the entity of the company will attain state of the art operational efficiency for maintaining a competitive edge, with the advent increase in the utilization of its products in oil, gas and power sector.

PANAM[®] is having state of the art manufacturing facility span over an area of 65,000 sqft with a fleet of CNC machines, VMC machines, Semi-Automatic Lathe machines, High pressure test bench with SCADA control, Configuration centre for transmitters and dedicated R&D Team.

PANAM[®] is manufacturing a wide range of High Pressure Tube Fittings and Instrumentation products in different sizes and materials like Stainless Steel & Other Alloys (e.g. Monel, Hastalloy, Duplex, Super Duplex etc. as per the customer's requirements).

PANAM[®] offers its products in various end connections like NPT, BSPP, BSPT, ISO Tapered, ISO Parallel, Tube & Pipe Socket Welded Ends, etc.

PANAM[®] meets and even exceeds the requirements of ASME and MSS Series Standards. All materials are supplied in compliance with ASTM Specifications and verified by NABL approved third party laboratories.

PANAM[®] Tube Fittings are 100% factory tested and are in compliance with NACE MR0175 & NACE MR0103 with Heat Code Traceability. Working pressure upto 15000 psi (1034 bar) and also available in higher ratings on request.

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NPT

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Reducing Hex Nipples

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Hex Nipples

37° JIC

03



Hex Nipples

37° JIC x NPT

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Hex Nipples

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Swivel

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Female Cross

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Features

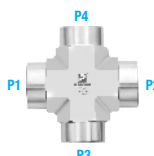
- Size Ranges from 1/16" to 2".
- For smooth flow path elbows are designed with radius junction.
- All Fittings are marked with Size, Material and Heat code for easy source tracing.
- All threads are capped for protection and properly packaged
- Straight fittings are manufactured from bar stock & Forged fittings are manufactured from forgings
- All pipe threads meet the requirement if ASME/ANSI B1.20.1 for tapered pipe threads (NPT)
- Working pressure meets the requirements of ANSI/ASME B31.3 at ambient temperature.

Ordering Information

PANAM

P - HN - 4N - 4N - SS - 15K / 10K (15K - 15,000 PSIG / 10K - 10,000 PSIG)

Fitting Type		P1 Size		P1 Type		P2, P3, and P4	Material	
HN	Hex Nipples	1	1/16	N	NPT Threads	Specify as per P Type and P Size	SS	316 SS
RHN	Reducing Hex Nipples	2	1/8	R	ISO Tapered Threads		B	Brass
HRN	Hex Long Nipples	3	3/16	G	ISO Parallel Threads		MO	Alloy 400
U	Unions	4	1/4	M	Metric Threads		INC	Alloy 600
HC	Hex Couplings	5	5/16-24	S	SAE/MS Straight Threads		CS	Carbon Steel
RHC	Reducing Hex Couplings	6	3/8 or 3/8-24	J	37° Flare		Materials like Hastloy, Monel, Duplex 2205, Duplex 2507 etc are available upon request	
A	Adapters	7	7/16-20	SWL	Swivel			
HP	Hex Plugs	8	1/2 or M8 x 1	JSWL	JIC Swivel			
TP	Tube Plugs	9	9/16-18					
PC	Pipe Caps	10	M10 x 1					
ME	Male Elbows	12	3/4 or 3/4-16 or M12 x 1.5					
FE	Female Elbows	14	7/8-14 or M14 x 1.5					
UE	Union Elbows	16	1 or M16 x 1.5					
SE	Street Elbows	17	1 1/16-12					
FT	Female Tees	18	M15 x 1.5					
MT	Male Tees	19	1 3/16-12					
UT	Union Tees	20	1 1/4 or M20 x 1.5					
FC	Female Cross	21	1 5/16-12					
		22	M22 x 1.5					
		24	1 1/2 or M24 x 1.5					
		26	1 5/8-12					
		27	M27 x 2					
		30	1 7/8 or M30 x 2					
		32	2					



P1, P2, P3 & P4 Shall be described in the following orders. For tees the run shall proceed the branch, for cross the run shall proceed the branch

Installation Instructions

To ensure leak proof tight seal, **PANAM** recommends use of pipe thread sealant on all NPT threads. The most effective sealing method is the use of Teflon tape, Tape should be used on male NPT tapered threads. Clean both male and female tapered threads, wrap tape in direction of male tapered, cut off excess tape.

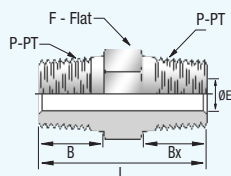
Thread Relevant Standards & Material

Thread Relevant Standards	
NPT Threads	ASME B1.20.1, SAE AS71051
ISO Tapered Threads	ISO 7-1, BS 21, JIS B0203
ISO Parallel Threads	ISO 228, JIS B0202
SAE/MS	ASME B1.1, SAE J475
Metric	ISO 261

Material	Bar Stock	Forging
316 SS	ASTM A276, ASME SA479, EN 1.4401	ASTM A182, ASME SA182, EN 1.4401
304 SS	ASTM A276, ASME SA479, EN 1.4301	ASTM A182, ASME SA182, EN 1.4301
Alloy 400	ASTM B164, ASME SB164	ASTM B564, ASME SB564
Alloy 600	ASTM B166, ASME SB166	ASTM B564, ASME SB564
Brass	ASME B16/ASTM B453	ASTM B283
Carbon Steel	ASTM A108	ASTM A105

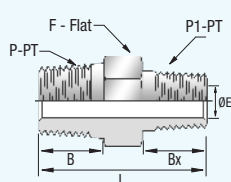
High Pressure Pipe Fittings

Hex Nipples - NPT



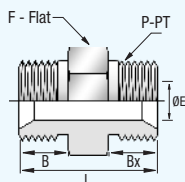
Part No	Pipe Size	Dimensions					
	P-PT, NPT	L	F	B	Bx	E	
PHN-2N-SS-15K	1/8	44.5	14.0	9.5	9.5	3.0	
PHN-4N-SS-15K	1/4	47.6	15.8	14.2	14.2	4.8	
PHN-6N-SS-15K	3/8	50.8	22.2	14.2	14.2	6.0	
PHN-8N-SS-15K	1/2	54.0	25.4	19.3	19.3	9.0	
PHN-12N-SS-10K	3/4	60.3	28.5	19.3	19.3	12.0	
PHN-16N-SS-10K	1	66.6	35.0	24.0	24.0	18.0	

Reducing Hex Nipples - NPT



Part No	Pipe Size		Dimensions					
	P-PT, NPT	P1-PT, NPT	L	F	B	Bx	E	
PRHN-4N-2N-SS-15K	1/4	1/8	32.9	15.8	14.2	9.7	3.0	
PRHN-4N-6N-SS-15K	1/4	3/8	50.8	15.8	14.2	14.2	4.8	
PRHN-6N-2N-SS-15K	3/8	1/8	34.1	22.2	14.2	9.7	3.0	
PRHN-6N-4N-SS-15K	3/8	1/4	38.6	22.2	14.2	14.2	4.8	
PRHN-8N-2N-SS-15K	1/2	1/8	40.2	25.4	19.3	9.5	3.0	
PRHN-8N-4N-SS-15K	1/2	1/4	44.7	25.4	19.3	14.2	4.8	
PRHN-8N-6N-SS-15K	1/2	3/8	50.8	25.4	19.3	14.2	6.0	
PRHN-12N-2N-SS-10K	3/4	1/8	42.4	28.5	19.3	9.5	3.0	
PRHN-12N-4N-SS-10K	3/4	1/4	46.9	28.5	19.3	14.2	4.8	
PRHN-12N-6N-SS-10K	3/4	3/8	46.9	28.5	19.3	14.2	6.0	
PRHN-12N-8N-SS-10K	3/4	1/2	51.8	28.5	19.3	19.3	9.0	
PRHN-16N-2N-SS-10K	1	1/8	49.8	35.0	24.0	9.5	3.0	
PRHN-16N-4N-SS-10K	1	1/4	54.3	35.0	24.0	14.2	4.8	
PRHN-16N-6N-SS-10K	1	3/8	54.3	35.0	24.0	14.2	6.0	
PRHN-16N-8N-SS-10K	1	1/2	59.2	35.0	24.0	19.3	9.0	
PRHN-16N-12N-SS-10K	1	3/4	59.2	35.0	24.0	19.3	12.0	

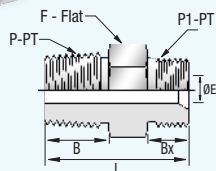
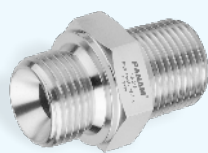
Hex Nipples - ISO Parallel



Part No	Pipe Size	Dimensions					
	P-PT, BSPP	L	F	B	Bx	E	
PHN-2G-SS-15K	1/8	23.5	14.0	8.0	8.0	3.0	
PHN-4G-SS-15K	1/4	31.5	19.0	11.0	11.0	4.8	
PHN-6G-SS-15K	3/8	34.7	22.0	12.0	12.0	6.0	
PHN-8G-SS-15K	1/2	40.7	27.0	14.0	14.0	9.0	
PHN-10G-SS-10K	5/8	45.2	30.0	16.0	16.0	10.0	
PHN-12G-SS-10K	3/4	45.2	32.0	16.0	16.0	12.0	
PHN-16G-SS-10K	1	51.9	41.0	19.0	19.0	18.0	
PHN-20G-SS-10K	1 1/4	61.4	50.0	20.0	20.0	22.0	
PHN-24G-SS-10K	1 1/2	67.4	55.0	22.0	22.0	24.0	
PHN-32G-SS-10K	2	76.4	70.0	25.0	25.0	24.0	

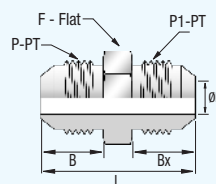
High Pressure Pipe Fittings

Hex Nipples - NPT x ISO Parallel



Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, BSPP	L	F	B	Bx	E
PHN-2N-2G-SS-15K	1/8	1/8	7.1	14.2	9.5	7.1	4.3
PHN-2N-4G-SS-15K	1/8	1/4	11.2	19.0	9.5	11.2	4.3
PHN-4N-2G-SS-15K	1/4	1/8	7.1	15.8	14.2	7.1	4.3
PHN-4N-4G-SS-15K	1/4	1/4	11.2	19.0	14.2	11.2	5.8
PHN-4N-6G-SS-15K	1/4	3/8	11.2	22.2	14.2	11.2	6.3
PHN-4N-8G-SS-15K	1/4	1/2	14.2	27.0	14.2	14.2	5.8
PHN-6N-4G-SS-15K	3/8	1/4	11.2	22.2	14.2	11.2	5.8
PHN-6N-6G-SS-15K	3/8	3/8	11.2	22.2	14.2	11.2	8.1
PHN-6N-8G-SS-15K	3/8	1/2	14.2	27.0	14.2	14.2	8.1
PHN-8N-4G-SS-15K	1/2	1/4	11.2	25.4	19.3	11.2	5.8
PHN-8N-6G-SS-15K	1/2	3/8	11.2	25.4	19.3	11.2	8.1
PHN-8N-8G-SS-15K	1/2	1/2	14.2	27.0	19.3	14.2	10.2
PHN-8N-10G-SS-10K	1/2	5/8	14.2	30.0	19.3	14.2	10.4
PHN-8N-12G-SS-10K	1/2	3/4	15.7	32.0	19.3	15.8	10.4
PHN-12N-8G-SS-10K	3/4	1/2	14.2	28.5	19.3	14.2	13.4
PHN-12N-12G-SS-10K	3/4	3/4	15.7	33.3	19.3	15.8	13.4
PHN-12N-16-SS-10K	3/4	1	18.3	41.0	19.3	18.3	13.4
PHN-16N-8G-SS-10K	1	1/2	14.2	41.0	24.0	14.2	11.9
PHN-16N-12G-SS-10K	1	3/4	15.7	41.0	24.0	15.8	13.4
PHN-16N-16G-SS-10K	1	1	18.3	41.0	24.0	18.3	17.0
PHN-16N-20G-SS-10K	1	1 1/4	18.5	50.0	24.0	18.6	17.0

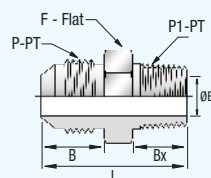
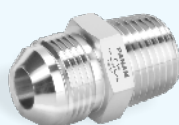
Hex Nipples - 37° JIC x 37° JIC



Part No	Tube Size				Dimensions				
	Inch	P-PT, JIC / UNF	Inch	P1-PT, JIC / UNF	L	F	B	Bx	E
PHN-4J-SS-15K	1/4	7/16-20	1/4	7/16-20	34.8	19.0	14.0	14.0	4.3
PHN-5J-SS-15K	5/16	1/2-20	5/16	1/2-20	34.8	14.2	14.0	14.1	5.8
PHN-6J-SS-15K	3/8	9/16-18	3/8	9/16-18	35.8	15.8	14.2	14.2	6.6
PHN-8J-SS-15K	1/2	3/4-16	1/2	3/4-16	41.1	20.6	16.8	16.8	9.1
PHN-10J-SS-10K	5/8	7/8-14	5/8	7/8-14	47.8	23.8	19.3	19.3	10.7
PHN-12J-SS-10K	3/4	1 1/16-12	3/4	1 1/16-12	54.9	28.5	21.8	21.8	13.2
PHN-16-SS-10K	1	1 5/16-12	1	1 5/16-12	57.1	35.0	23.1	23.1	17.0
PHN-6J-4J-SS-10K	3/8	9/16-18	1/4	7/16-20	35.6	15.8	14.2	14.2	4.3
PHN-8J-4J-SS-15K	1/2	3/4-16	1/4	7/16-20	38.4	20.6	16.8	16.8	4.3
PHN-12J-10J-SS-10K	1/2	3/4-16	3/8	9/16-18	38.6	20.6	16.8	16.8	6.6

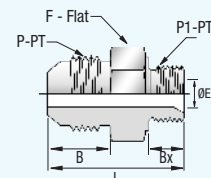
High Pressure Pipe Fittings

Hex Nipples - 37° JIC x NPT



Part No	Tube Size		Pipe Size	Dimensions					
	Inch	P-PT, JIC / UNF	P1-PT, NPT	L	F	B	Bx	E	
PHN-2J-4N-SS-10K	1/8	5/16-24	1/4	33.5	14.3	14.2	11.4	1.5	
PHN-4J-4N-SS-15K	1/4	7/16-20	1/4	36.1	15.0	14.2	14.0	4.3	
PHN-4J-6N-SS-15K	1/4	7/16-20	3/8	36.1	22.2	14.2	14.0	4.3	
PHN-4J-8N-SS-15K	1/4	7/16-20	1/2	42.7	28.6	19.3	14.0	4.3	
PHN-6J-4N-SS-15K	3/8	9/16-18	1/4	36.3	15.8	14.2	14.2	6.6	
PHN-6J-6N-SS-15K	3/8	9/16-18	3/8	36.3	22.2	14.2	14.2	6.6	
PHN-6J-8N-SS-15K	3/8	9/16-18	1/2	42.9	25.4	19.3	14.2	6.6	
PHN-8J-4N-SS-15K	1/2	3/4-16	1/4	38.9	20.5	14.2	16.8	9.1	
PHN-8J-6N-SS-15K	1/2	3/4-16	3/8	38.9	22.2	14.2	16.8	9.1	
PHN-8J-8N-SS-15K	1/2	3/4-16	1/2	45.5	28.5	19.3	16.8	9.1	
PHN-8J-12N-SS-10K	1/2	3/4-16	3/4	47.0	28.5	19.3	16.8	9.1	
PHN-12J-8N-SS-10K	3/4	1 1/16-12	1/2	52.3	28.5	19.3	21.8	13.2	
PHN-12J-12N-SS-10K	3/4	1 1/16-12	3/4	52.3	28.5	19.3	21.8	13.2	
PHN-16J-6N-SS-10K	1	1 5/16-12	3/8	48.8	35.0	14.2	23.1	17.0	
PHN-16J-8N-SS-10K	1	1 5/16-12	1/2	53.6	35.0	19.3	23.1	17.0	
PHN-16J-12N-SS-10K	1	1 5/16-12	3/4	53.6	35.0	14.2	23.1	17.0	
PHN-16J-16N-SS-10K	1	1 5/16-12	1	58.4	35.0	24.0	23.1	17.0	

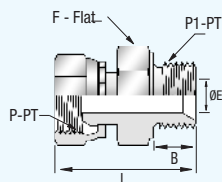
Hex Nipples - 37° JIC x ISO Parallel



Part No	Tube Size		Pipe Size	Dimensions					
	Inch	P-PT, JIC / UNF	P1-PT, BSPP	L	F	B	Bx	E	
PHN-4J-4G-SS-15K	1/4	7/16-20	1/4	31.8	15.8	14.0	11.2	4.3	
PHN-4J-6G-SS-15K	1/4	7/16-20	3/8	33.0	22.2	14.0	11.2	4.3	
PHN-4J-8G-SS-15K	1/4	7/16-20	1/2	38.6	28.6	14.0	14.2	4.3	
PHN-6J-6G-SS-15K	3/8	9/16-18	3/8	33.0	22.2	14.2	11.2	6.6	
PHN-8J-8G-SS-15K	1/2	3/4-16	1/2	41.4	28.6	16.8	14.2	9.9	
PHN-8J-12G-SS-10K	1/4	7/16-20	3/4	39.4	33.3	14.0	15.7	4.3	

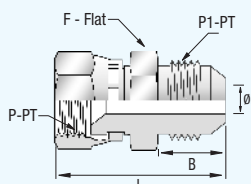
High Pressure Pipe Fittings

Hex Nipples - Swivel x ISO Parallel



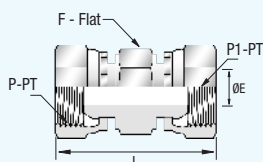
Part No	Pipe Size		Dimensions			
	P-PT, BSPP	P1-PT, BSPP	L	F	B	E
PHN-4GSWL-4G-SS-10K	1/4	1/4	36.6	19.0	11.0	6.0
PHN-4GSWL-6G-SS-10K	1/4	3/8	38.5	22.0	11.0	6.0
PHN-4GSWL-8G-SS-10K	1/4	1/2	42.0	27.0	11.0	6.0
PHN-6GSWL-4G-SS-10K	3/8	1/4	38.3	22.0	12.0	7.0
PHN-6GSWL-6G-SS-10K	3/8	3/8	40.0	22.0	12.0	7.0
PHN-6GSWL-8G-SS-10K	3/8	1/2	43.6	27.0	14.0	7.0
PHN-8GSWL-6G-SS-10K	1/2	3/8	43.5	27.0	14.0	9.0
PHN-8GSWL-8G-SS-10K	1/2	1/2	46.1	27.0	14.0	9.0
PHN-8GSWL-12G-SS-10K	1/2	3/4	48.0	32.0	14.0	9.0
PHN-12GSWL-8G-SS-10K	3/4	1/2	48.6	32.0	16.0	12.0
PHN-12GSWL-12G-SS-10K	3/4	3/4	50.0	32.0	16.0	12.0
PHN-12GSWL-16G-SS-10K	3/4	1	54.3	41.0	16.0	12.0
PHN-16GSWL-16G-SS-10K	1	1	57.3	41.0	19.0	18.0

Hex Nipples - 37° JIC Swivel x 37° JIC



Part No	Tube OD (P-PT)		P1-PT		Dimensions			
	inch	JIC/UNF	inch	JIC/UNF	L	F	B	E
PHN-4JSWL-4J-SS-10K	1/4	7/16-20	1/4	7/16-20	28.4	14.3	14.0	4.3
PHN-4JSWL-6J-SS-10K	1/4	7/16-20	3/8	9/16-18	32.8	17.5	14.0	4.3
PHN-4JSWL-8J-SS-10K	1/4	7/16-20	1/2	3/4-16	34.0	23.8	14.0	4.3
PHN-5JSWL-4J-SS-10K	5/16	1/2-20	1/4	7/16-20	30.0	14.3	14.0	5.8
PHN-6JSWL-4J-SS-10K	3/8	9/16-18	1/4	7/16-20	30.7	14.3	14.2	6.6
PHN-6JSWL-6J-SS-10K	3/8	9/16-18	3/8	9/16-18	33.0	17.5	14.2	6.6
PHN-6JSWL-8J-SS-10K	3/8	9/16-18	1/2	3/4-16	35.1	23.8	14.2	6.6
PHN-8JSWL-4J-SS-10K	1/2	3/4-16	1/4	7/16-20	33.3	20.6	16.8	9.1
PHN-8JSWL-6J-SS-10K	1/2	3/4-16	3/8	9/16-18	35.6	20.6	16.8	9.1
PHN-8JSWL-8J-SS-10K	1/2	3/4-16	1/2	3/4-16	35.6	23.8	16.8	9.1
PHN-8JSWL-12J-SS-10K	1/2	3/4-16	3/4	1 1/16-12	38.1	31.8	16.8	9.1

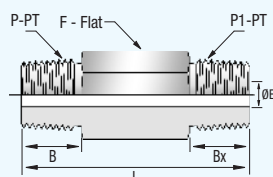
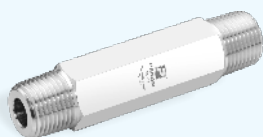
Swivel Union - ISO Parallel



Part No	Pipe Size		Dimensions		
	P-PT, BSPP	P1-PT, BSPP	L	F	E
PSU-4GSWL-SS-10K	1/4	1/4	23.1	14.3	4.3
PSU-6GSWL-4GSWL-SS-10K	3/8	1/4	26.4	17.5	4.3
PSU-6GSWL-SS-10K	3/8	3/8	28.7	17.5	7.6
PSU-8GSWL-4GSWL-SS-10K	1/2	1/4	31.2	23.8	4.3
PSU-8GSWL-6GSWL-SS-10K	1/2	3/8	31.2	23.8	7.6
PSU-8GSWL-SS-10K	1/2	1/2	32.8	23.8	9.9
PSU-12GSWL-SS-10K	3/4	3/4	41.1	31.8	14.2
PSU-16GSWL-SS-10K	1	1	42.2	38.1	19.0

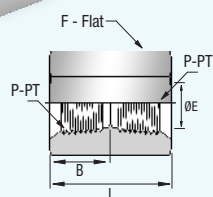
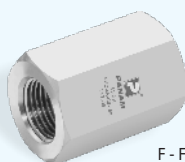
High Pressure Pipe Fittings

Hex Long Nipples - NPT x NPT



Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, NPT	L	F	B	Bx	E
PHLN-2N-SS-L1.5-15K	1/8	1/8	38.1	14.0	9.5	9.5	3.0
PHLN-4N-SS-L2.0-15K	1/8	1/8	50.8	14.0	9.5	9.5	3.0
PHLN-4N-6N-SS-L2.5-15K	1/8	1/8	63.5	14.0	9.5	9.5	3.0
PHLN-4N-8N-SS-L3.0-15K	1/8	1/8	76.2	14.0	9.5	9.5	3.0
PHLN-6N-SS-L1.5-15K	1/4	1/4	38.1	15.8	14.2	14.2	4.8
PHLN-6N-8N-SS-L2.0-15K	1/4	1/4	50.8	15.8	14.2	14.2	4.8
PHLN-8N-SS-L2.5-15K	1/4	1/4	63.5	15.8	14.2	14.2	4.8
PHLN-12N-SS-L3.0-10K	1/4	1/4	76.2	15.8	14.2	14.2	4.8
PHLN-16N-SS-L4.0-10K	1/4	1/4	101.6	15.8	14.2	14.2	4.8
PHLN-4N-SS-L1.5-15K	3/8	3/8	38.1	22.2	14.2	14.2	6.0
PHLN-4N-6N-SS-L2.0-15K	3/8	3/8	50.8	22.2	14.2	14.2	6.0
PHLN-4N-8N-SS-L2.5-15K	3/8	3/8	63.5	22.2	14.2	14.2	6.0
PHLN-6N-SS-L3.0-15K	3/8	3/8	76.2	22.2	14.2	14.2	6.0
PHLN-6N-8N-SS-L4.0-15K	3/8	3/8	101.6	22.2	14.2	14.2	6.0
PHLN-8N-SS-L2.0-15K	1/2	1/2	50.8	25.4	19.3	19.3	9.0
PHLN-12N-SS-L3.0-10K	1/2	1/2	76.2	25.4	19.3	19.3	9.0
PHLN-16N-SS-L4.0-10K	1/2	1/2	101.6	25.4	19.3	19.3	9.0
PHLN-4N-8N-SS-L6.0-15K	1/2	1/2	152.6	25.4	19.3	19.3	9.0
PHLN-6N-SS-L2.0-15K	3/4	3/4	50.8	28.5	19.3	19.3	12.0
PHLN-6N-8N-SS-L3.0-15K	3/4	3/4	76.2	28.5	19.3	19.3	12.0
PHLN-8N-SS-L4.0-15K	3/4	3/4	101.6	28.5	19.3	19.3	12.0
PHLN-12N-SS-L3.0-10K	1	1	76.2	35.0	24.0	24.0	18.0
PHLN-16N-SS-L4.0-10K	1	1	101.6	35.0	24.0	24.0	18.0

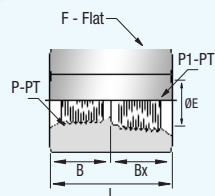
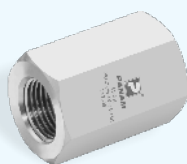
Hex Coupling - NPT



Part No	Pipe Size	Dimensions		
	P-PT, NPT	L	F	B
PHC-2N-SS-15K	1/8	25.4	16.0	9.5
PHC-4N-SS-15K	1/4	31.8	19.1	14.2
PHC-6N-SS-15K	3/8	35.1	25.4	14.2
PHC-8N-SS-15K	1/2	38.1	35.1	19.3
PHC-12N-SS-10K	3/4	44.5	35.1	19.3
PHC-16N-SS-10K	1	55.4	44.5	24.0

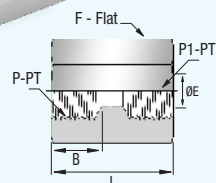
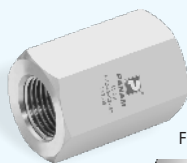
High Pressure Pipe Fittings

Reducing Hex Coupling - NPT



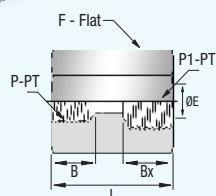
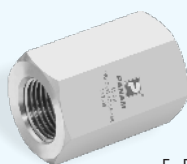
Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, NPT	L	F	B	Bx	E
PRHC-2N-4N-SS-15K	1/8	1/4	31.8	19.1	9.5	14.2	3.0
PRHC-2N-6N-SS-15K	1/8	3/8	35.1	25.4	9.5	14.2	3.0
PRHC-2N-8N-SS-15K	1/8	1/2	38.1	31.8	9.5	19.3	3.0
PRHC-2N-12N-SS-10K	1/8	3/4	41.1	35.1	9.5	19.3	3.0
PRHC-2N-16N-SS-10K	1/8	1	50.8	44.5	9.5	24.0	3.0
PRHC-4N-6N-SS-15K	1/4	3/8	35.1	25.4	14.2	14.2	4.8
PRHC-4N-8N-SS-15K	1/4	1/2	41.1	35.1	14.2	19.3	4.8
PRHC-4N-12N-SS-10K	1/4	3/4	44.5	35.1	14.2	19.3	4.8
PRHC-4N-16N-SS-10K	1/4	1	50.8	44.5	14.2	24.0	4.8
PRHC-6N-8N-SS-15K	3/8	1/2	41.4	35.1	14.2	19.3	6.0
PRHC-6N-12N-SS-10K	3/8	3/4	44.5	35.1	14.2	19.3	6.0
PRHC-6N-16N-SS-10K	3/8	1	50.8	44.5	14.2	24.0	6.0
PRHC-8N-12N-SS-10K	1/2	3/4	44.5	35.1	19.3	19.3	9.0
PRHC-8N-16N-SS-10K	1/2	1	55.6	44.5	19.3	24.0	9.0

Hex Coupling - ISO Parallel



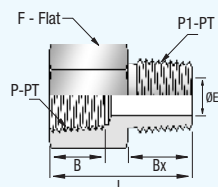
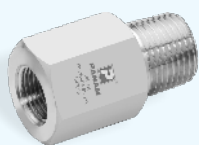
Part No	Pipe Size	Dimensions			
	P-PT, BSPP	L	F	B	E
PHC-2G-SS-15K	1/8	25.4	16.0	9.5	3.0
PHC-4G-SS-15K	1/4	31.8	19.1	15.5	4.8
PHC-6G-SS-15K	3/8	35.1	25.4	15.5	6.0
PHC-8G-SS-15K	1/2	38.1	35.1	19.0	9.0
PHC-12G-SS-10K	3/4	44.5	35.1	22.0	12.0
PHC-16G-SS-10K	1	55.4	44.5	22.0	18.0

Hex Reducing Coupling - ISO Parallel



Part No	Pipe Size		Dimensions				
	P-PT, BSPP	P1-PT, BSPP	L	F	B	Bx	E
PRHC-2G-4G-SS-15K	1/8	1/4	31.8	19.0	9.5	15.5	3.0
PRHC-2G-6G-SS-15K	1/8	3/8	35.1	22.0	9.5	15.5	3.0
PRHC-2G-8G-SS-15K	1/8	1/2	38.1	35.1	9.5	19.0	3.0
PRHC-2G-12G-SS-10K	1/8	3/4	41.1	35.1	9.5	22.0	3.0
PRHC-2G-16G-SS-10K	1/8	1	50.8	44.5	9.5	24.5	3.0
PRHC-4G-6G-SS-15K	1/4	3/8	35.1	25.4	15.5	15.5	4.8
PRHC-4G-8G-SS-15K	1/4	1/2	41.1	35.1	15.5	19.0	4.8
PRHC-4G-12G-SS-10K	1/4	3/4	44.5	35.1	15.5	22.0	4.8
PRHC-4G-16G-SS-10K	1/4	1	50.8	44.5	15.5	24.5	4.8
PRHC-6G-8G-SS-15K	3/8	1/2	41.4	35.1	15.5	19.0	6.0
PRHC-6G-12G-SS-10K	3/8	3/4	44.5	35.1	15.5	15.5	6.0
PRHC-6G-16G-SS-10K	3/8	1	50.8	44.5	15.5	24.5	6.0
PRHC-8G-12G-SS-10K	1/2	3/4	44.5	35.1	19.0	22.0	9.0
PRHC-8G-16G-SS-10K	1/2	1	55.6	44.5	19.0	24.5	9.0

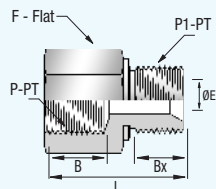
Adapters - NPT



Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, NPT	L	F	B	Bx	E
PA-2N-4N-SS-15K	1/8	1/4	35.1	19.1	9.5	15.5	8.5
PA-2N-6N-SS-15K	1/8	3/8	39.6	25.4	9.5	15.5	14.0
PA-2N-8N-SS-15K	1/8	1/2	39.6	35.1	9.5	22.0	18.0
PA-2N-12N-SS-10K	1/8	3/4	53.8	35.1	9.5	22.0	22.0
PA-2N-16N-SS-10K	1/8	1	57.2	44.5	9.5	24.5	22.0
PA-4N-2N-SS-15K	1/4	1/8	38.1	19.1	14.2	9.5	8.5
PA-4N-6N-SS-15K	1/4	3/8	44.5	22.4	14.2	15.5	14.0
PA-4N-8N-SS-15K	1/4	1/2	44.5	35.1	14.2	22.0	18.0
PA-4N-12N-SS-10K	1/4	3/4	57.2	35.1	14.2	22.0	22.0
PA-4N-16N-SS-10K	1/4	1	60.5	44.5	14.2	24.5	22.0
PA-6N-2N-SS-15K	3/8	1/8	38.1	22.2	14.2	9.5	8.5
PA-6N-4N-SS-15K	3/8	1/4	41.1	22.2	14.2	15.5	11.0
PA-6N-8N-SS-15K	3/8	1/2	50.8	35.1	14.2	22.0	18.0
PA-6N-12N-SS-10K	3/8	3/4	50.8	35.1	14.2	22.0	22.0
PA-6N-16N-SS-10K	3/8	1	65.0	44.5	14.2	24.5	22.0
PA-8N-2N-SS-15K	1/2	1/8	44.5	25.4	19.3	9.5	8.5
PA-8N-4N-SS-15K	1/2	1/4	46.0	25.4	19.3	15.5	11.0
PA-8N-6N-SS-15K	1/2	3/8	50.8	25.4	19.3	15.5	14.0
PA-8N-12N-SS-10K	1/2	3/4	63.5	35.1	19.3	22.0	22.0
PA-8N-16N-SS-10K	1/2	1	65.0	44.5	19.3	24.5	22.0
PA-12N-2N-SS-10K	3/4	1/8	38.4	28.5	19.3	9.5	8.5
PA-12N-4N-SS-10K	3/4	1/4	38.4	28.5	19.3	15.5	11.0
PA-12N-6N-SS-10K	3/4	3/8	50.8	28.5	19.3	15.5	14.0
PA-12N-8N-SS-10K	3/4	1/2	50.8	28.5	19.3	22.0	18.0
PA-12N-16N-SS-10K	3/4	1	65.0	44.5	19.3	24.5	22.0
PA-16N-2N-SS-10K	1	1/8	50.8	35.1	24.0	9.5	8.5
PA-16N-4N-SS-10K	1	1/4	47.8	35.1	24.0	15.5	11.0
PA-16N-6N-SS-10K	1	3/8	57.2	35.1	24.0	15.5	14.0
PA-16N-8N-SS-10K	1	1/2	60.2	35.1	24.0	22.0	18.0
PA-16N-12N-SS-10K	1	3/4	69.9	35.1	24.0	22.0	22.0

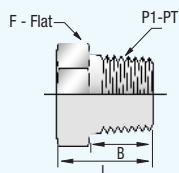
High Pressure Pipe Fittings

Adapters - ISO Parallel



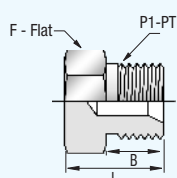
Part No	Pipe Size		Dimensions				
	P-PT, BSPP	P1-PT, BSPP	L	F	B	Bx	E
PA-2G-4G-SS-15K	1/8	1/4	37.1	22.0	12.0	11.0	4.8
PA-2G-6G-SS-15K	1/8	3/8	36.9	22.0	12.0	12.0	6.0
PA-2G-8G-SS-15K	1/8	1/2	38.0	27.0	14.0	11.0	4.8
PA-2G-10G-SS-10K	1/8	5/8	45.3	27.0	14.0	12.0	6.0
PA-12G-4G-SS-10K	3/4	1/4	40.0	30.0	16.0	11.0	4.8
PA-12G-6G-SS-10K	3/4	3/8	41.6	32.0	16.0	12.0	6.0
PA-12G-8G-SS-10K	3/4	1/2	47.3	32.0	16.0	14.0	9.0
PA-16G-4G-SS-10K	1	1/4	43.0	41.0	19.0	11.0	4.8
PA-16G-6G-SS-10K	1	3/8	44.6	41.0	19.0	12.0	6.0
PA-16G-8G-SS-10K	1	1/2	50.3	41.0	19.0	14.0	9.0
PA-16G-12G-SS-10K	1	3/4	52.2	41.0	19.0	16.0	12.0

Hex Plug - NPT



Part No	Pipe Size	Dimensions		
	P-PT, NPT	L	F	B
PHP-2N-SS-15K	1/8	25.4	12.7	9.5
PHP-4N-SS-15K	1/4	28.4	16.0	14.2
PHP-6N-SS-15K	3/8	28.4	19.1	14.2
PHP-8N-SS-15K	1/2	38.1	25.4	19.3
PHP-12N-SS-10K	3/4	38.1	35.1	19.3
PHP-16N-SS-10K	1	47.8	35.1	24.0

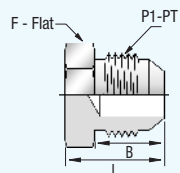
Hex Plug - ISO Parallel



Part No	Pipe Size	Dimensions		
	P-PT, BSPP	L	F	B
PHP-2G-SS-15K	1/8	14.3	14.0	8.0
PHP-4G-SS-15K	1/4	18.8	19.0	11.0
PHP-6G-SS-15K	3/8	20.5	22.0	12.0
PHP-8G-SS-15K	1/2	24.0	27.0	14.0
PHP-10G-SS-10K	5/8	24.0	30.0	16.0
PHP-12G-SS-10K	3/4	26.5	32.0	16.0
PHP-16G-SS-10K	1	30.2	41.0	19.0
PHP-20G-SS-10K	1 1/4	38.7	50.0	20.0
PHP-24G-SS-10K	1 1/2	42.7	55.0	22.0
PHP-32G-SS-10K	2	48.2	70.0	25.0

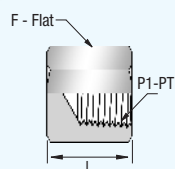
High Pressure Pipe Fittings

Tube Plug - 37° JIC



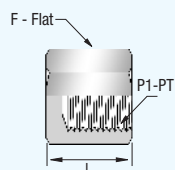
Part No	Tube Size		Dimensions		
	Inch	P-PT, JIC / UNF	L	F	B
PTP-4J-SS-10K	1/4	7/16-20	20.3	12.7	20.3
PTP-5J-SS-10K	5/16	1/2-20	20.3	14.2	20.3
PTP-6J-SS-10K	3/8	9/16-18	21.3	15.8	21.3
PTP-8J-SS-10K	1/2	3/4-16	23.9	20.6	23.9
PTP-10J-SS-10K	5/8	7/8-14	27.9	23.8	27.9
PTP-12J-SS-10K	3/4	1 1/16-12	32.5	28.6	32.5
PTP-16J-SS-10K	1	1 5/16-12	33.8	34.9	33.8

Pipe Cap - NPT



Part No	Pipe Size	Dimensions	
	P-PT, NPT	L	F
PPC-2N-SS-15K	1/8	19.1	16.0
PPC-4N-SS-15K	1/4	25.4	19.1
PPC-6N-SS-15K	3/8	25.4	25.4
PPC-8N-SS-15K	1/2	31.8	35.1
PPC-12N-SS-10K	3/4	38.1	35.1
PPC-16N-SS-10K	1	42.7	44.5

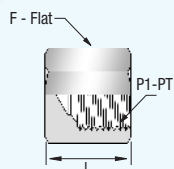
Pipe Cap - ISO Parallel



Part No	Pipe Size	Dimensions		
	P-PT, BSPP	L	F	B
PPC-2G-SS-15K	1/8	19.1	16.0	9.5
PPC-4G-SS-15K	1/4	25.4	19.1	14.2
PPC-6G-SS-15K	3/8	25.4	25.4	14.2
PPC-8G-SS-15K	1/2	31.8	35.1	19.3
PPC-12G-SS-10K	3/4	38.1	35.1	19.3
PPC-16G-SS-10K	1	42.7	44.5	24.0

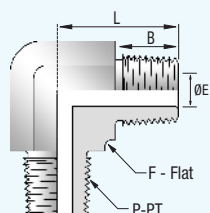
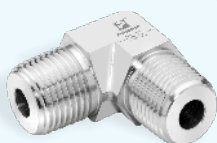
High Pressure Pipe Fittings

Pipe Cap - 37° JIC



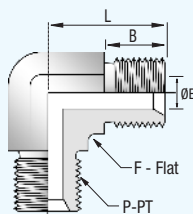
Part No	Tube Size		Dimensions	
	Inch	P-PT, JIC / UNF	L	F
PPC-4J-SS-10K	1/4	7/16-20	17.0	14.3
PPC-5J-SS-10K	5/16	1/2-20	19.6	15.9
PPC-6J-SS-10K	3/8	9/16-18	20.6	17.5
PPC-8J-SS-10K	1/2	3/4-16	23.9	22.2
PPC-10J-SS-10K	5/8	7/8-14	27.2	25.4
PPC-12J-SS-10K	3/4	1 1/16-12	31.5	31.8
PPC-16J-SS-10K	1	1 5/16-12	32.8	38.1

Male Elbow - NPT



Part No	Pipe Size	Dimensions				
	P-PT, NPT	L	Lx	F	B	E
PME-2N-SS-15K	1/8	23.5	23.5	15.8	9.5	3.0
PME-4N-SS-15K	1/4	28.0	28.0	19.5	14.2	4.8
PME-6N-SS-15K	3/8	28.0	28.0	22.5	14.2	6.0
PME-8N-SS-15K	1/2	29.0	29.0	24.0	19.3	9.0
PME-12N-SS-10K	3/4	35.0	35.0	30.5	19.3	12.0
PME-16N-SS-10K	1	48.5	48.5	42.0	24.0	18.0

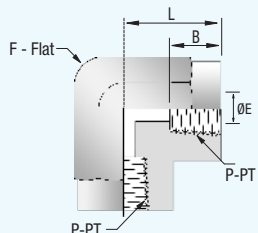
Male Elbow - ISO Parallel



Part No	Pipe Size	Dimensions				
	P-PT, BSPP	L	Lx	F	B	E
PME-2G-SS-15K	1/8	23.5	23.5	15.8	9.0	3.0
PME-4G-SS-15K	1/4	28.0	28.0	19.5	11.0	4.8
PME-6G-SS-15K	3/8	28.0	28.0	22.5	11.0	6.0
PME-8G-SS-15K	1/2	29.0	29.0	24.0	13.5	9.0
PME-12G-SS-10K	3/4	35.0	35.0	30.5	19.3	12.0
PME-16G-SS-10K	1	48.5	48.5	42.0	24.0	18.0

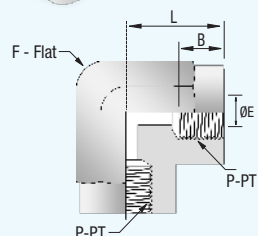
High Pressure Pipe Fittings

Female Elbow - NPT



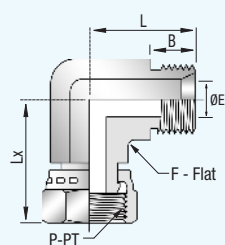
Part No	Pipe Size	Dimensions			
	P-PT, NPT	L	F	B	E
PFE-2N-SS-15K	1/8	23.5	19.0	9.5	4.8
PFE-4N-SS-15K	1/4	28.0	24.0	15.5	6.0
PFE-6N-SS-15K	3/8	28.0	30.5	15.5	7.0
PFE-8N-SS-15K	1/2	29.0	36.0	22.0	9.0
PFE-12N-SS-10K	3/4	39.5	36.0	22.0	12.0
PFE-16N-SS-10K	1	48.5	44.5	24.0	18.0

Female Elbow - ISO Parallel



Part No	Pipe Size	Dimensions			
	P-PT, BSPP	L	F	B	E
PFE-2G-SS-15K	1/8	23.5	19.0	9.5	4.8
PFE-4G-SS-15K	1/4	28.0	24.0	15.5	6.0
PFE-6G-SS-15K	3/8	28.0	30.5	15.5	7.0
PFE-8G-SS-15K	1/2	29.0	36.0	19.0	9.0
PFE-12G-SS-10K	3/4	39.5	36.0	22.0	12.0
PFE-16G-SS-10K	1	48.5	44.5	24.0	18.0

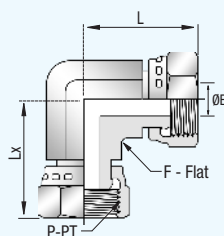
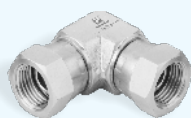
Swivel Male Elbow - Swivel x ISO Parallel



Part No	Pipe Size		Dimensions				
	P-PT, BSPP	P1-PT, BSPP	L	Lx	F	B	E
PME-2GSWL-2G-SS-10K	1/8	1/8	23.5	23.5	15.8	8.0	4.8
PME-4GSWL-4G-SS-10K	1/4	1/4	28.0	28.0	19.5	11.0	6.0
PME-6GSWL-6G-SS-10K	3/8	3/8	28.0	28.0	19.5	12.0	7.0
PME-8GSWL-8G-SS-10K	1/2	1/2	29.0	29.0	24.0	14.0	9.0
PME-10GSWL-10G-SS-10K	5/8	5/8	35.0	35.0	30.5	16.0	10.0
PME-12GSWL-12G-SS-10K	3/4	3/4	39.5	39.5	36.0	16.0	12.0
PME-16GSWL-16G-SS-10K	1	1	39.5	39.5	36.0	19.0	18.0
PME-20GSWL-20G-SS-10K	1 1/4	1 1/4	48.5	48.5	42.0	20.0	22.0
PME-24GSWL-24G-SS-10K	1 1/2	1 1/2	48.5	48.5	42.0	22.0	24.0

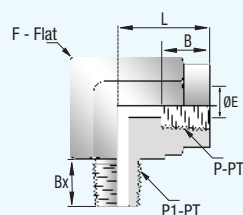
High Pressure Pipe Fittings

Swivel Union Elbow



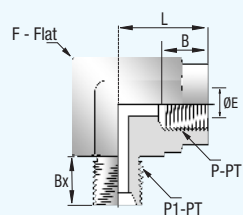
Part No	Pipe Size		Dimensions				
	P-PT, BSPP	P1-PT, BSPP	L	Lx	F	B	E
PUE-4GSWL-SS-10K	1/4	1/4	28.0	28.0	19.5	11.0	6.0
PUE-6GSWL-SS-10K	3/8	3/8	28.0	28.0	19.5	12.0	7.0
PUE-8GSWL-SS-10K	1/2	1/2	29.0	29.0	24.0	14.0	9.0
PUE-10GSWL-SS-10K	5/8	5/8	35.0	35.0	30.5	16.0	10.0
PUE-12GSWL-SS-10K	3/4	3/4	39.5	39.5	36.0	16.0	12.0
PUE-16GSWL-SS-10K	1	1	39.5	39.5	36.0	19.0	18.0
PUE-20GSWL-SS-10K	1 1/4	1 1/4	48.5	48.5	42.0	20.0	22.0
PUE-24GSWL-SS-10K	1 1/2	1 1/2	48.5	48.5	42.0	22.0	24.0

Street Elbow - NPT



Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, NPT	L	F	B	Bx	E
PSE-2N-SS-15K	1/8	1/8	28.0	19.0	9.5	9.5	3.0
PSE-4N-SS-15K	1/4	1/4	29.0	24.0	14.2	15.5	4.8
PSE-6N-SS-15K	3/8	3/8	35.0	30.5	14.2	15.5	6.0
PSE-8N-SS-15K	1/2	1/2	39.5	36.0	19.3	22.0	9.0
PSE-12N-SS-10K	3/4	3/4	39.5	36.0	19.3	19.3	12.0
PSE-16N-SS-15K	1	1	48.5	44.5	24.0	24.0	18.0

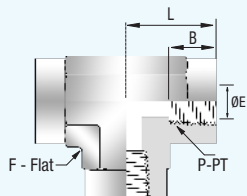
Street Elbow - ISO Parallel



Part No	Pipe Size		Dimensions				
	P-PT, BSPP	P1-PT, BSPP	L	F	B	Bx	E
PSE-2G-SS-15K	1/8	1/8	28.0	19.0	9.5	9.5	3.0
PSE-4G-SS-15K	1/4	1/4	29.0	24.0	14.2	15.5	4.8
PSE-6G-SS-15K	3/8	3/8	35.0	30.5	14.2	15.5	6.0
PSE-8G-SS-15K	1/2	1/2	39.5	36.0	19.3	19.3	9.0
PSE-12G-SS-10K	3/4	3/4	39.5	36.0	19.3	19.3	12.0
PSE-16G-SS-10K	1	1	48.5	44.5	24.0	24.0	18.0

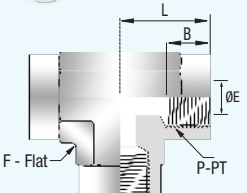
High Pressure Pipe Fittings

Female Tee - NPT



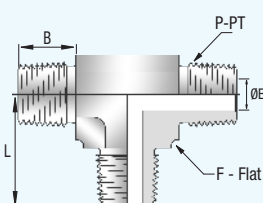
Part No	Pipe Size	Dimensions			
	P-PT, NPT	L	F	B	E
PFT-2N-SS-15K	1/8	52.5	19.0	9.5	4.8
PFT-4N-SS-15K	1/4	58.0	24.0	15.5	6.0
PFT-6N-SS-15K	3/8	70.0	30.5	15.5	7.0
PFT-8N-SS-15K	1/2	79.0	36.0	22.0	9.0
PFT-12N-SS-10K	3/4	39.5	36.0	22.0	12.0
PFT-16N-SS-10K	1	48.5	44.5	24.0	18.0

Female Tee - ISO Parallel



Part No	Pipe Size	Dimensions			
	P-PT, BSPP	L	F	B	E
PFT-2G-SS-15K	1/8	52.5	19.0	9.5	4.8
PFT-4G-SS-15K	1/4	58.0	24.0	15.5	6.0
PFT-6G-SS-15K	3/8	70.0	30.5	15.5	7.0
PFT-8G-SS-15K	1/2	79.0	36.0	19.0	9.0
PFT-12G-SS-10K	3/4	39.5	36.0	22.0	12.0
PFT-16G-SS-10K	1	48.5	44.5	24.0	18.0

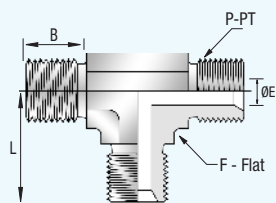
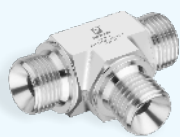
Male Tee - NPT



Part No	Pipe Size	Dimensions			
	P-PT, NPT	L	F	B	E
PMT-2N-SS-15K	1/8	45.5	15.8	9.5	3.0
PMT-4N-SS-15K	1/4	52.5	19.0	14.2	4.8
PMT-6N-SS-15K	3/8	52.5	22.2	14.2	6.0
PMT-8N-SS-15K	1/2	58.0	24.0	19.3	9.0
PMT-12N-SS-10K	3/4	39.5	36.0	22.0	12.0
PMT-16N-SS-10K	1	48.5	42.0	24.0	18.0

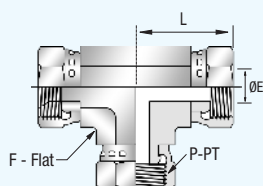
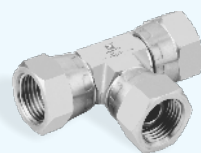
High Pressure Pipe Fittings

Male Tee - ISO Parallel



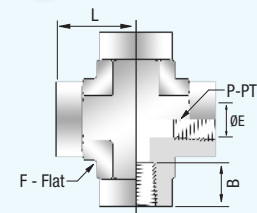
Part No	Pipe Size	Dimensions			
	P-PT, BSPP	L	F	B	E
PMT-2G-SS-15K	1/8	45.5	15.8	9.5	3.0
PMT-4G-SS-15K	1/4	52.5	19.0	14.2	4.8
PMT-6G-SS-15K	3/8	52.5	19.0	14.2	6.0
PMT-8G-SS-15K	1/2	58.0	24.0	19.3	9.0
PMT-12G-SS-10K	3/4	39.5	36.0	22.0	12.0
PMT-16G-SS-10K	1	48.5	42.0	24.0	18.0

Swivel Union Tee



Part No	Pipe Size		Dimensions			
	P-PT, BSPP	P1-PT, BSPP	L	F	B	E
PUT-4GSWL-SS-10K	1/4	1/4	52.5	19.0	11.0	6.0
PUT-6GSWL-SS-10K	3/8	3/8	52.5	19.0	12.0	7.0
PUT-8GSWL-SS-10K	1/2	1/2	58.0	24.0	14.0	9.0
PUT-10GSWL-SS-10K	5/8	5/8	70.0	30.5	16.0	10.0
PUT-12GSWL-SS-10K	3/4	3/4	79.0	36.0	16.0	12.0
PUT-16GSWL-SS-10K	1	1	79.0	36.0	19.0	18.0
PUT-20GSWL-SS-10K	1 1/4	1 1/4	97.0	42.0	20.0	22.0

Female Cross - NPT



Part No	Pipe Size	Dimensions			
	P-PT, NPT	L	F	B	E
PFC-2N-SS-15K	1/8	49.0	19.0	9.5	4.8
PFC-4N-SS-15K	1/4	58.0	24.0	15.5	6.0
PFC-6N-SS-15K	3/8	70.0	30.0	15.5	7.0
PFC-8N-SS-15K	1/2	79.0	36.0	22.0	9.0
PFC-12N-SS-10K	3/4	79.0	36.0	22.0	12.0
PFC-16N-SS-10K	1	97.0	44.5	24.0	18.0

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HP PIPE FITTINGS



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