



PANAM
ENGINEERING
BEYOND
LIMITS

Pipe Fittings

Maximum Working Pressure upto
10000 psig (689 bar)



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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 Pipe 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[®] Pipe Fittings are 100% factory tested and are in compliance with NACE MR0175 & NACE MR0103 with Heat Code Traceability. Working pressure upto 10000 psi (689 bar) and also available in higher ratings on request.

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Female Cross
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Female Cross
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Other Products

Features

- Size Ranges from 1/16" to 2"
- To avoid galling threads are hardened with smooth surface which helps to extend the fitting service life.
- 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.

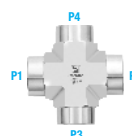
Ordering Information

PANAM

P - HN - 4N - 4N - SS

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
BHU	Bulkhead Union	2	1/8	R	ISO Tapered Threads		B	Brass
SC	Swivel Connector	3	3/16	G	ISO Parallel Threads		M	Alloy 400
SU	Swivel Union	4	1/4	M	Metric Threads		INC	Alloy 600
HRN	Hex Reducing Nipples	5	5/16-24	S	SAE/MS Straight Threads		CS	Carbon Steel
HLN	Hex Long Nipples	6	3/8 or 3/8-24	J	37° Flare			
CN	Close Nipples	7	7/16-20					
LPN	Long Pipe Nipples	8	1/2 or M8 x 1					
HC	Hex Couplings	9	9/16-18					
RHC	Reducing Hex Couplings	10	5/8 or M10 x 1					
A	Adapters	12	3/4 or 3/4-16 or M12 x 1.5					
RA	Reducing Adapters	14	7/8-14 or M14 x 1.5					
RB	Reducing Bushing	16	1 or M16 x 1.5					
HP	Hex Plugs	17	1 1/16-12					
HHP	Hallow Hex Plugs	18	M18 x 1.5					
PC	Pipe Caps	19	1 3/16-12					
U	Union	20	1 1/4 or M20 x 1.5					
FE	Female Elbow	21	1 5/16-12					
ME	Male Elbow	22	M22 x 1.5					
UE	Union Elbow	24	1 1/2 or M24 x 1.5					
SE	Street Elbow	26	1 5/8-12					
FT	Female Tee	27	M27 x 2					
MT	Male Tee	30	1 7/8-12 or M30 x 2					
FBT	Female Branch Tee	32	2					
FRT	Female Run Tee							
ST	Street Tee							
BT	Branch Tee							
RT	Run Tee							
UT	Union Tee							
C	Cross							

Materials like Hastloy, Monel, Duplex 2205, Duplex 2507 etc are available upon request



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

Pressure Ratings

	316 SS		Brass		Carbon Steel	
Size	Male	Female	Male	Female	Male	Female
1/16	11000	6700	5500	3300	11000	6700
1/8	10000	6500	5000	3200	10000	6500
1/4	8000	6600	4000	3300	8000	6600
3/8	7800	5300	3900	2600	7800	5300
1/2	7700	4900	3800	2400	7700	4900
3/4	7300	4600	3600	2300	7300	4600
1	5300	4400	2600	2200	5300	4400
1 1/4	6000	5000	3000	2500	6000	5000
1 1/2	5000	4600	2500	2300	5000	4600
2	3900	3900	1900	1900	3900	3900

- Pressure ratings are based on ASME Code for pressure piping B13.3, Process piping with allowable stress 20,000psi for 316 SS 10,000psi/Brass, and 20,000psi/Carbon Steel.
- To determine pressure ratings in accordance with B31.1 Power piping - 316 SS x 0.94 / CS x 0.75 / Brass material remains same.
- To determine kPa. multiply by 6.89

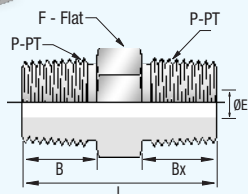
Material

Material	Bar Stock	Forging
316 SS	ASTM A276, ASME SA479, EN 1.4401	ASTM A182, ASME SA182, EN 1.4401
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

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

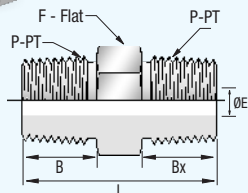
Instrumentation Pipe Fittings

Hex Nipple - NPT



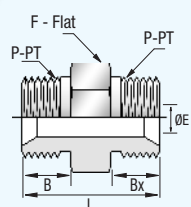
Part No	Pipe Size	Dimensions				
	P-PT, NPT	L	F	B	Bx	E
PHN-1N-SS	1/16	25.6	7.9	9.7	9.7	3.0
PHN-2N-SS	1/8	25.6	11.1	9.7	9.7	4.8
PHN-4N-SS	1/4	35.6	14.3	14.2	14.2	7.1
PHN-6N-SS	3/8	36.3	17.5	14.2	14.2	9.7
PHN-8N-SS	1/2	46.7	22.2	19.1	19.1	11.9
PHN-12N-SS	3/4	46.7	27.0	19.1	19.1	15.7
PHN-16N-SS	1	58.9	34.9	23.9	23.9	22.4
PHN-20N-SS	1 1/4	62.9	44.5	23.9	23.9	28.6
PHN-24N-SS	1 1/2	66.3	50.8	26.2	26.2	34.0
PHN-32N-SS	2	77.7	69.9	26.2	26.2	45.0

Hex Nipple - ISO Tapered



Part No	Pipe Size	Dimensions				
	P-PT, BSPT	L	F	B	Bx	E
PHN-2R-SS	1/8	25.6	11.1	9.7	9.7	4.8
PHN-4R-SS	1/4	35.6	14.3	14.2	14.2	7.1
PHN-6R-SS	3/8	36.3	17.5	14.2	14.2	9.7
PHN-8R-SS	1/2	46.7	22.2	19.1	19.1	11.9
PHN-12R-SS	3/4	46.7	27.0	19.1	19.1	15.7
PHN-16R-SS	1	58.9	34.9	23.9	23.9	22.4

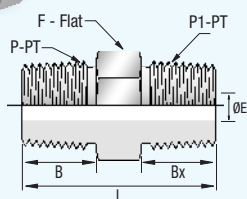
Hex Nipple - ISO Parallel



Part No	Pipe Size	Dimensions				
	P-PT, BSPP	L	F	B	Bx	E
PHN-2G-SS	1/8	23.5	14.0	8.0	8.0	3.5
PHN-4G-SS	1/4	31.5	19.0	11.0	11.0	4.7
PHN-6G-SS	3/8	34.7	22.0	12.0	12.0	7.9
PHN-8G-SS	1/2	40.7	27.0	14.0	14.0	11.1
PHN-10G-SS	5/8	45.2	30.0	16.0	16.0	14.3
PHN-12G-SS	3/4	45.2	32.0	16.0	16.0	16.7
PHN-16G-SS	1	51.9	41.0	19.0	19.0	22.2
PHN-20G-SS	1 1/4	61.4	50.0	20.0	20.0	28.6
PHN-24G-SS	1 1/2	67.4	55.0	22.0	22.0	33.3
PHN-32G-SS	2	76.4	70.0	25.0	25.0	46.0

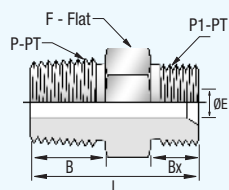
Instrumentation Pipe Fittings

Hex Nipple - NPT x ISO Tapered



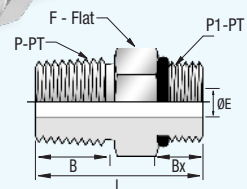
Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, BSPT	L	F	B	Bx	E
PHN-2N-2R-SS	1/8	1/8	25.6	11.1	9.7	9.7	4.8
PHN-4N-4R-SS	1/4	1/4	35.6	14.3	14.2	14.2	7.1
PHN-6N-6R-SS	3/8	3/8	36.3	17.5	14.2	14.2	9.7
PHN-8N-8R-SS	1/2	1/2	46.7	22.2	19.1	19.1	11.9
PHN-12N-12R-SS	3/4	3/4	46.7	27.0	19.1	19.1	15.7
PHN-16N-16R-SS	1	1	58.9	34.9	23.9	23.9	22.4

Hex Nipple - NPT x ISO Parallel



Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, BSPP	L	F	B	Bx	E
PHN-2N-2G-SS	1/8	1/8	24.4	14.0	9.7	8.0	3.5
PHN-4N-4G-SS	1/4	1/4	33.4	19.0	14.2	11.0	4.7
PHN-6N-6G-SS	3/8	3/8	35.1	22.0	14.2	12.0	7.9
PHN-8N-8G-SS	1/2	1/2	43.4	22.0	19.1	14.0	11.0
PHN-12N-12G-SS	3/4	3/4	45.9	30.0	19.1	16.0	16.7
PHN-16N-16G-SS	1	1	54.5	41.0	23.9	19.0	22.2
PHN-20N-20G-SS	1 1/4	1 1/4	63.7	50.0	23.9	20.0	28.6
PHN-24N-24G-SS	1 1/2	1 1/2	68.5	55.0	26.2	22.0	33.3
PHN-32N-32G-SS	2	2	76.4	70.0	26.2	25.0	46.0

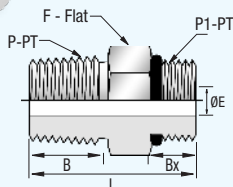
Hex Nipple - NPT x SAE / MS Straight



Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, SAE	L	F	B	Bx	E
PHN-4N-7S-SS	1/4	7/16-20	30.5	14.3	14.2	9.1	5.1
PHN-6N-9S-SS	3/8	9/16-18	32.0	17.5	14.2	9.1	7.1
PHN-8N-12S-SS	1/2	3/4-16	38.9	22.2	19.1	11.2	10.7
PHN-12N-17S-SS	3/4	1 1/16-12	44.4	31.8	19.1	15.0	15.7
PHN-16N-21S-SS	1	1 5/16-12	50.8	38.1	23.9	15.0	22.4

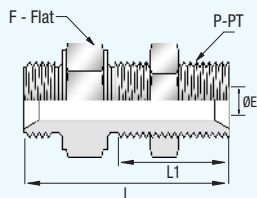
Instrumentation Pipe Fittings

Hex Nipple - NPT x Metric



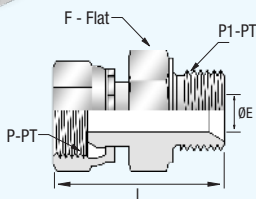
Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, Metric	L	F	B	Bx	E
PHN-4N-8M-SS	1/4	M8 x 1	29.0	14.3	14.2	9.0	3.2
PHN-4N-14M-SS	1/4	M14 x 1.5	34.2	15.9	14.2	13.0	7.0
PHN-4N-16M-SS	1/4	M16 x 1.5	35.2	17.5	14.2	14.0	7.1
PHN-4N-20M-SS	1/4	M20 x 1.5	37.2	22.2	14.2	16.0	7.1
PHN-6N-14M-SS	3/8	M14 x 1.5	34.2	17.5	14.2	13.0	7.0
PHN-6N-20M-SS	3/8	M20 x 1.5	37.2	22.2	14.2	16.0	9.5
PHN-6N-24M-SS	3/8	M24 x 1.5	38.2	25.4	14.2	17.0	9.5
PHN-8N-14M-SS	1/2	M14 x 1.5	39.1	22.2	19.1	13.0	7.2
PHN-8N-20M-SS	1/2	M20 x 1.5	42.0	22.2	19.1	16.0	10.0
PHN-8N-24M-SS	1/2	M24 x 1.5	43.5	25.4	19.1	17.0	11.9
PHN-12N-20M-SS	3/4	M20 x 1.5	42.1	27.0	19.1	16.0	10.8
PHN-12N-27M-SS	3/4	M27 x 2	46.7	38.8	19.1	18.0	15.8
PHN-16N-30M-SS	1	M30 x 2	56.3	34.9	23.9	20.0	19.4

Bulkhead Union - ISO Parallel



Part No	Pipe Size	Dimensions			
	P-PT, BSPP	L	L1	F	E
PBHU-4G-SS	1/4	46.8	28.0	19.0	4.7
PBHU-6G-SS	3/8	52.5	32.0	22.0	7.9
PBHU-8G-SS	1/2	59.0	35.0	27.0	11.1
PBHU-10G-SS	5/8	61.5	35.0	30.0	14.3
PBHU-12G-SS	3/4	64.5	38.0	32.0	16.7
PBHU-16G-SS	1	71.2	41.0	41.0	22.2
PBHU-20G-SS	1 1/4	82.7	44.0	50.0	28.6
PBHU-24G-SS	1 1/2	90.7	48.0	55.0	33.3

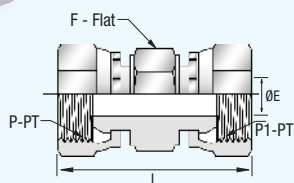
Swivel Connector - ISO Parallel



Part No	Pipe Size		Dimensions		
	P-PT, BSPP	P1PT, BSPP	L	F	E
PSC-4G-SWL-SS	1/4	1/4	36.6	19.0	4.7
PSC-4G-6G-SWL-SS	1/4	3/8	38.5	22.0	4.7
PSC-4G-8G-SWL-SS	1/4	1/2	42.0	27.0	4.7
PSC-6G-4G-SWL-SS	3/8	1/4	38.3	22.0	4.7
PSC-6G-SWL-SS	3/8	3/8	40.0	22.0	7.9
PSC-6G-8G-SWL-SS	3/8	1/2	43.6	27.0	7.9
PSC-8G-6G-SWL-SS	1/2	3/8	43.5	27.0	7.9
PSC-8G-SWL-SS	1/2	1/2	46.1	27.0	11.1
PSC-8G-12G-SWL-SS	1/2	3/4	48.0	32.0	11.1
PSC-12G-8G-SWL-SS	3/4	1/2	48.6	32.0	11.1
PSC-12G-SWL-SS	3/4	3/4	50.0	32.0	16.7
PSC-12G-16G-SWL-SS	3/4	1	54.3	41.0	16.7
PSC-16G-SWL-SS	1	1	57.3	41.0	22.2

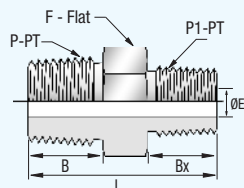
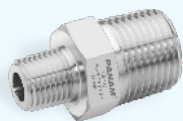
Instrumentation Pipe Fittings

Swivel Union - ISO Parallel



Part No	Pipe Size		Dimensions		
	P-PT, BSPP	P1-PT, BSPP	L	F	E
PSU-4G-SWL-SS	1/4	1/4	37.0	19.0	4.7
PSU-6G-4G-SWL-SS	3/8	1/4	38.6	22.0	4.7
PSU-6G-SWL-SS	3/8	3/8	40.5	22.0	7.9
PSU-8G-4G-SWL-SS	1/2	1/4	41.5	27.0	4.7
PSU-8G-6G-SWL-SS	1/2	3/8	42.9	27.0	7.9
PSU-8G-SWL-SS	1/2	1/2	45.8	27.0	11.1
PSU-10G-SWL-SS	5/8	5/8	47.5	30.0	14.3
PSU-12G-8G-SWL-SS	3/4	1/2	48.2	32.0	11.1
PSU-12G-SWL-SS	3/4	3/4	49.5	32.0	16.7
PSU-16G-SWL-SS	1	1	57.5	41.0	22.2
PSU-20G-SWL-SS	1 1/4	1 1/4	66.0	50.0	28.6
PSU-24G-SWL-SS	1 1/2	1 1/2	70.0	60.0	33.3

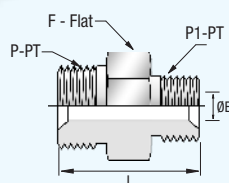
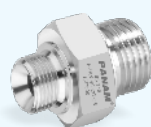
Hex Reducing Nipple - NPT



Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, NPT	L	F	B	Bx	E
PHRN-2N-1N-SS	1/8	1/16	25.6	11.1	9.7	9.7	3.0
PHRN-4N-1N-SS	1/4	1/16	31.0	14.3	14.2	9.7	3.0
PHRN-4N-2N-SS	1/4	1/8	31.0	14.3	14.2	9.7	4.8
PHRN-6N-1N-SS	3/8	1/16	31.8	17.5	14.2	9.7	3.0
PHRN-6N-2N-SS	3/8	1/8	31.8	17.5	14.2	9.7	4.8
PHRN-6N-4N-SS	3/8	1/4	36.3	17.5	14.2	14.2	7.1
PHRN-8N-2N-SS	1/2	1/8	37.3	22.2	19.1	9.7	4.8
PHRN-8N-4N-SS	1/2	1/4	41.9	22.2	19.1	14.2	7.1
PHRN-8N-6N-SS	1/2	3/8	41.9	22.2	19.1	14.2	9.7
PHRN-12N-2N-SS	3/4	1/8	40.4	27.0	19.1	9.7	4.8
PHRN-12N-4N-SS	3/4	1/4	41.9	21.0	19.1	14.2	7.1
PHRN-12N-6N-SS	3/4	3/8	45.2	27.0	19.1	14.2	9.7
PHRN-12N-8N-SS	3/4	1/2	46.7	27.0	19.1	19.1	11.9
PHRN-16N-2N-SS	1	1/8	45.2	34.9	23.9	9.7	4.8
PHRN-16N-4N-SS	1	1/4	49.3	34.9	23.9	14.2	7.1
PHRN-16N-6N-SS	1	3/8	50.0	34.9	23.9	14.2	9.7
PHRN-16N-8N-SS	1	1/2	54.1	34.9	23.9	19.1	11.9
PHRN-16N-12N-SS	1	3/4	54.1	34.9	23.9	19.1	15.7
PHRN-20N-16N-SS	1 1/4	1	62.2	44.5	23.9	23.9	22.4

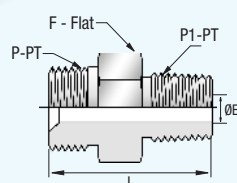
Instrumentation Pipe Fittings

Hex Reducing Nipple - ISO Parallel



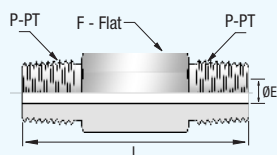
Part No	Pipe Size		Dimensions		
	P-PT, BSPP	P1-PT, BSPP	L	F	E
PHRN-4G-2G-SS	1/4	1/8	28.0	19.0	3.5
PHRN-6G-4G-SS	3/8	1/4	33.2	22.0	4.7
PHRN-8G-4G-SS	1/2	1/4	36.7	27.0	4.7
PHRN-8G-6G-SS	1/2	3/8	38.2	27.0	7.9
PHRN-10G-8G-SS	5/8	1/2	43.2	30.0	11.1
PHRN-12G-4G-SS	3/4	1/4	39.2	32.0	4.7
PHRN-12G-6G-SS	3/4	3/8	40.7	32.0	7.9
PHRN-12G-8G-SS	3/4	1/2	43.2	32.0	11.1
PHRN-12G-10G-SS	3/4	5/8	45.2	32.0	14.3
PHRN-16G-8G-SS	1	1/2	46.9	41.0	11.1
PHRN-16G-10G-SS	1	5/8	48.9	41.0	14.3
PHRN-16G-12G-SS	1	3/4	48.9	41.0	16.7
PHRN-20G-12G-SS	1 1/4	3/4	57.4	50.0	16.7
PHRN-20G-16G-SS	1 1/4	1	60.4	50.0	22.2
PHRN-24G-16G-SS	1 1/2	1	64.4	55.0	22.2
PHRN-24G-20G-SS	1 1/2	1 1/4	65.4	55.0	28.6
PHRN-32G-24G-SS	2	1 1/2	72.9	70.0	33.3

Hex Reducing Nipple - ISO Parallel x NPT



Part No	Pipe Size		Dimensions		
	P-PT, BSPP	P1-PT, NPT	L	F	E
PHRN-2G-4N-SS	1/8	1/4	28.9	14.0	3.5
PHRN-4G-2N-SS	1/4	1/8	28.9	19.0	3.5
PHRN-4G-6N-SS	1/4	3/8	33.4	19.0	4.7
PHRN-6G-4N-SS	3/8	1/4	35.1	22.0	4.7
PHRN-6G-8N-SS	3/8	1/2	39.9	22.0	7.9
PHRN-8G-6N-SS	1/2	3/8	38.6	27.0	7.9
PHRN-10G-8N-SS	5/8	1/2	45.9	27.0	11.1
PHRN-10G-12N-SS	5/8	3/4	45.9	30.0	14.3
PHRN-12G-8N-SS	3/4	1/2	46.0	32.0	11.1
PHRN-12G-16N-SS	3/4	1	50.8	36.0	16.7
PHRN-16G-12N-SS	1	3/4	49.6	41.0	16.7

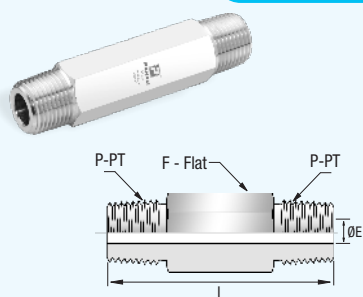
Hex Long Nipples - NPT



Part No	Pipe Size	Dimensions		
	P-PT, NPT	L	F	E
PHLN-2N-SS-L1.5	1/8	38.1	11.1	4.8
PHLN-2N-SS-L2.0	1/8	50.8	11.1	4.8
PHLN-2N-SS-L2.5	1/8	63.5	11.1	4.8
PHLN-2N-SS-L3.0	1/8	76.2	11.1	4.8
PHLN-4N-SS-L1.5	1/4	38.1	14.3	7.1
PHLN-4N-SS-L2.0	1/4	50.8	14.3	7.1
PHLN-4N-SS-L2.5	1/4	63.5	14.3	7.1
PHLN-4N-SS-L3.0	1/4	76.2	14.3	7.1
PHLN-4N-SS-L4.0	1/4	101.6	14.3	7.1
PHLN-6N-SS-L1.5	3/8	38.1	17.5	9.7
PHLN-6N-SS-L2.0	3/8	50.8	17.5	9.7
PHLN-6N-SS-L2.5	3/8	63.5	17.5	9.7
PHLN-6N-SS-L3.0	3/8	76.2	17.5	9.7
PHLN-6N-SS-L4.0	3/8	101.6	17.5	9.7
PHLN-8N-SS-L2.0	1/2	50.8	22.2	11.9
PHLN-8N-SS-L3.0	1/2	76.2	22.2	11.9
PHLN-8N-SS-L4.0	1/2	101.6	22.2	11.9
PHLN-8N-SS-L6.0	1/2	152.4	22.2	11.9
PHLN-12N-SS-L2.0	3/4	50.8	27.0	15.7
PHLN-12N-SS-L3.0	3/4	76.2	27.0	15.7
PHLN-12N-SS-L4.0	3/4	101.6	27.0	15.7
PHLN-16N-SS-L3.0	1	76.2	34.9	22.4
PHLN-16N-SS-L4.0	1	101.6	34.9	22.4

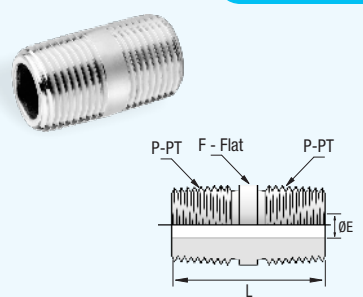
Instrumentation Pipe Fittings

Hex Long Nipples - ISO Tapered



Part No	Pipe Size	Dimensions		
	P-PT, BSPT	L	F	E
PHLN-2R-SS-L1.5	1/8	38.1	11.1	4.8
PHLN-2R-SS-L2.0	1/8	50.8	11.1	4.8
PHLN-2R-SS-L2.5	1/8	63.5	11.1	4.8
PHLN-2R-SS-L3.0	1/8	76.2	11.1	4.8
PHLN-4R-SS-L1.5	1/4	38.1	14.3	7.1
PHLN-4R-SS-L2.0	1/4	50.8	14.3	7.1
PHLN-4R-SS-L2.5	1/4	63.5	14.3	7.1
PHLN-4R-SS-L3.0	1/4	76.2	14.3	7.1
PHLN-4R-SS-L4.0	1/4	101.6	14.3	7.1
PHLN-6R-SS-L1.5	3/8	38.1	17.5	9.7
PHLN-6R-SS-L2.0	3/8	50.8	17.5	9.7
PHLN-6R-SS-L2.5	3/8	63.5	17.5	9.7
PHLN-6R-SS-L3.0	3/8	76.2	17.5	9.7
PHLN-6R-SS-L4.0	3/8	101.6	17.5	9.7
PHLN-8R-SS-L2.0	1/2	50.8	22.2	11.9
PHLN-8R-SS-L3.0	1/2	76.2	22.2	11.9
PHLN-8R-SS-L4.0	1/2	101.6	22.2	11.9
PHLN-8R-SS-L6.0	1/2	152.4	22.2	11.9
PHLN-12R-SS-L2.0	3/4	50.8	27.0	15.7
PHLN-12R-SS-L3.0	3/4	76.2	27.0	15.7
PHLN-12R-SS-L4.0	3/4	101.6	27.0	15.7
PHLN-16R-SS-L3.0	1	76.2	34.9	22.4
PHLN-16R-SS-L4.0	1	101.6	34.9	22.4

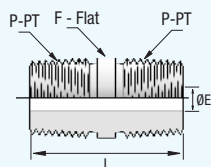
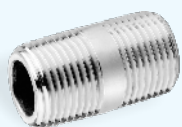
Close Nipples - NPT



Part No	Pipe Size	Dimensions		
	P-PT, NPT	L	F	E
PCN-1N-SS	1/16	19.1	7.9	3.0
PCN-2N-SS	1/8	19.1	10.3	4.8
PCN-4N-SS	1/4	28.4	13.7	7.1
PCN-6N-SS	3/8	28.4	17.1	9.6
PCN-8N-SS	1/2	38.1	21.3	11.9
PCN-12N-SS	3/4	38.1	26.7	15.7
PCN-16N-SS	1	47.8	33.4	22.4

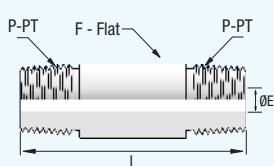
Instrumentation Pipe Fittings

Close Nipples - ISO Tapered



Part No	Pipe Size	Dimensions		
	P-PT, BSPT	L	F	E
PCN-1R-SS	1/16	19.1	7.9	3.0
PCN-2R-SS	1/8	19.1	10.3	4.8
PCN-4R-SS	1/4	28.4	13.7	7.1
PCN-6R-SS	3/8	28.4	17.1	9.7
PCN-8R-SS	1/2	38.1	21.3	11.9
PCN-12R-SS	3/4	38.1	26.7	15.7
PCN-16R-SS	1	47.8	33.4	22.4

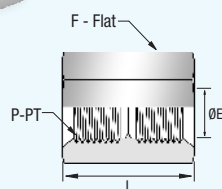
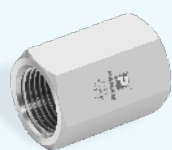
Long Pipe Nipples - NPT



Part No	Pipe Size	Dimensions		
	P-PT, NPT	L	F	E
PLPN-2N-SS-L1.5	1/8	38.1	10.3	4.8
PLPN-2N-SS-L2.0	1/8	50.8	10.3	4.8
PLPN-2N-SS-L2.5	1/8	63.5	10.3	4.8
PLPN-2N-SS-L3.0	1/8	76.2	10.3	4.8
PLPN-4N-SS-L1.5	1/4	38.1	13.7	7.1
PLPN-4N-SS-L2.0	1/4	50.8	13.7	7.1
PLPN-4N-SS-L2.5	1/4	63.5	13.7	7.1
PLPN-4N-SS-L3.0	1/4	76.2	13.7	7.1
PLPN-4N-SS-L4.0	1/4	101.6	13.7	7.1
PLPN-6N-SS-L1.5	3/8	38.1	17.1	9.7
PLPN-6N-SS-L2.0	3/8	50.8	17.1	9.7
PLPN-6N-SS-L2.5	3/8	63.5	17.1	9.7
PLPN-6N-SS-L3.0	3/8	76.2	17.1	9.7
PLPN-6N-SS-L4.0	3/8	101.6	17.1	9.7
PLPN-8N-SS-L2.0	1/2	50.8	21.3	11.9
PLPN-8N-SS-L3.0	1/2	76.2	21.3	11.9
PLPN-8N-SS-L4.0	1/2	101.6	21.3	11.9
PLPN-8N-SS-L6.0	1/2	152.4	21.3	11.9
PLPN-12N-SS-L2.0	3/4	50.8	26.7	15.7
PLPN-12N-SS-L3.0	3/4	76.2	26.7	15.7
PLPN-12N-SS-L4.0	3/4	101.6	26.7	15.7
PLPN-16N-SS-L3.0	1	76.2	33.4	22.4
PLPN-16N-SS-L4.0	1	101.6	33.4	22.4

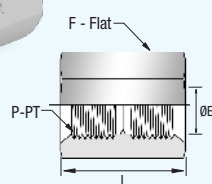
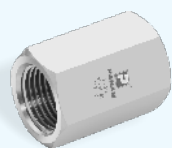
Instrumentation Pipe Fittings

Hex Couplings - NPT



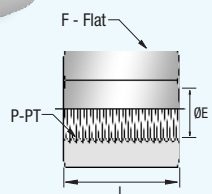
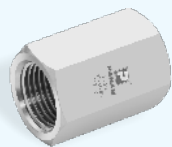
Part No	Pipe Size	Dimensions		
	P-PT, NPT	L	F	E
PHC-1N-SS	1/16	19.8	11.1	4.8
PHC-2N-SS	1/8	20.6	14.3	8.6
PHC-4N-SS	1/4	30.2	19.1	11.4
PHC-6N-SS	3/8	33.3	22.2	15.0
PHC-8N-SS	1/2	39.6	27.0	18.5
PHC-12N-SS	3/4	41.1	33.3	23.9
PHC-16N-SS	1	50.8	41.3	29.7

Hex Couplings - ISO Tapered



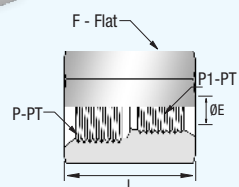
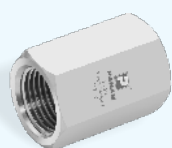
Part No	Pipe Size	Dimensions		
	P-PT, BSPT	L	F	E
PHC-2R-SS	1/8	20.6	14.3	8.4
PHC-4R-SS	1/4	30.2	19.1	11.2
PHC-6R-SS	3/8	33.3	22.2	14.7
PHC-8R-SS	1/2	39.6	27.0	18.3

Hex Couplings - ISO Parallel



Part No	Pipe Size	Dimensions		
	P-PT, BSPP	L	F	E
PHC-1G-SS	1/16	19.8	11.1	4.8
PHC-2G-SS	1/8	20.6	14.3	8.6
PHC-4G-SS	1/4	30.2	19.1	11.4
PHC-6G-SS	3/8	33.3	22.2	15.0
PHC-8G-SS	1/2	39.6	27.0	18.5
PHC-12G-SS	3/4	41.1	33.3	23.9
PHC-16G-SS	1	50.8	41.3	29.7

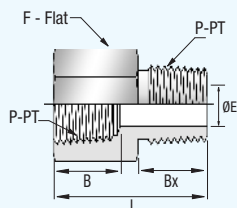
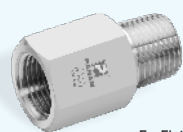
Reducing Hex Couplings - NPT



Part No	Pipe Size		Dimensions		
	P-PT, NPT	P1-PT, NPT	L	F	E
PRHC-4N-2N-SS	1/4	1/8	31.0	19.1	8.6
PRHC-6N-4N-SS	3/8	1/4	35.1	22.2	11.4
PRHC-8N-2N-SS	1/2	1/8	39.6	27.0	8.6
PRHC-8N-4N-SS	1/2	1/4	44.4	27.0	11.4
PRHC-8N-6N-SS	1/2	3/8	45.2	27.0	15.0
PRHC-12N-4N-SS	3/4	1/4	46.0	33.3	11.4
PRHC-12N-8N-SS	3/4	1/2	52.3	33.3	18.5
PRHC-16N-8N-SS	1	1/2	55.6	41.3	18.5
PRHC-16N-12N-SS	1	3/4	57.2	41.3	23.9

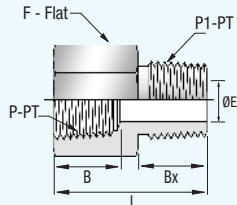
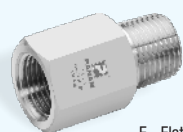
Instrumentation Pipe Fittings

Adapters - NPT



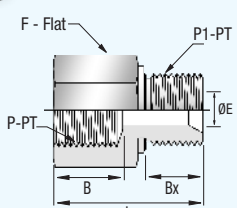
Part No	Pipe Size	Dimensions				
	P-PT, NPT	L	F	B	Bx	E
PA-2N-SS	1/8	27.9	14.3	10.4	9.7	4.8
PA-4N-SS	1/4	35.6	19.1	15.0	14.2	7.1
PA-6N-SS	3/8	38.4	22.2	15.0	14.2	9.6
PA-8N-SS	1/2	49.3	27.0	19.8	19.1	11.9
PA-12N-SS	3/4	51.3	33.3	20.6	19.1	15.7
PA-16N-SS	1	57.9	41.3	25.4	23.9	22.4

Adapters - NPT x ISO Tapered



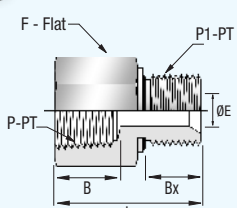
Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, BSPT	L	F	B	Bx	E
PA-2N-2R-SS	1/8	1/8	27.7	14.3	10.4	9.7	4.8
PA-4N-4R-SS	1/4	1/4	36.1	19.1	15.0	14.2	7.1
PA-6N-6R-SS	3/8	3/8	38.1	22.2	15.0	14.2	9.6
PA-8N-8R-SS	1/2	1/2	49.3	27.0	19.8	19.1	11.9
PA-12N-12R-SS	3/4	3/4	51.3	33.3	20.6	19.1	15.7
PA-16N-16R-SS	1	1	58.4	41.3	25.4	23.9	22.4

Adapters - ISO Parallel



Part No	Pipe Size		Dimensions				
	P-PT, BSPP	P1-PT, BSPP	L	F	B	Bx	E
PA-2G-SS	1/8	1/8	27.1	14.0	10.4	7.1	3.5
PA-4G-SS	1/4	1/4	37.1	22.0	15.0	11.2	4.7
PA-6G-SS	3/8	3/8	36.9	23.0	15.0	11.2	7.9
PA-8G-SS	1/2	1/2	45.3	30.0	19.8	14.2	7.9
PA-12G-SS	3/4	3/4	47.3	32.0	20.6	15.7	11.1
PA-16G-SS	1	1	52.2	41.0	25.4	18.3	16.7

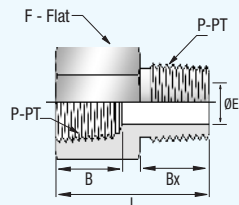
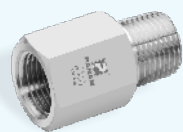
Adapters - NPT x ISO Parallel



Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, BSPP	L	F	B	Bx	E
PA-2N-2G-SS	1/8	1/8	25.1	14.3	9.9	7.1	4.1
PA-4N-4G-SS	1/4	1/4	33.5	19.1	10.4	11.2	5.8
PA-6N-6G-SS	3/8	3/8	35.8	22.2	15.0	11.2	7.9
PA-8N-8G-SS	1/2	1/2	44.2	27.0	15.0	14.2	11.9
PA-12N-12G-SS	3/4	3/4	48.0	33.3	20.6	15.7	15.7
PA-16N-16G-SS	1	1	53.3	41.3	25.4	18.3	19.8

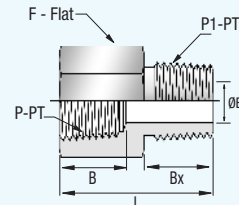
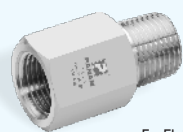
Instrumentation Pipe Fittings

Adapters - ISO Tapered



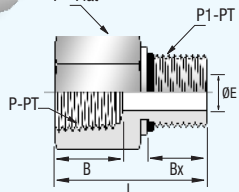
Part No	Pipe Size	Dimensions				
	P-PT, BSPT	L	F	B	Bx	E
PA-2R-SS	1/8	27.7	14.3	10.4	9.7	4.8
PA-4R-SS	1/4	36.1	19.1	15.0	14.2	7.1
PA-6R-SS	3/8	38.1	22.2	15.0	14.2	9.7
PA-8R-SS	1/2	49.5	27.0	19.8	19.1	11.9
PA-12R-SS	3/4	51.3	33.3	20.6	19.1	15.7
PA-16R-SS	1	58.4	41.3	25.4	23.9	22.4

Adapters - ISO Tapered x NPT



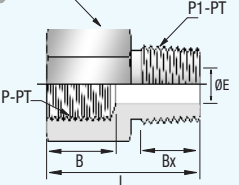
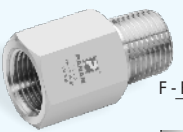
Part No	Pipe Size		Dimensions				
	P-PT, BSPT	P1-PT, NPT	L	F	B	Bx	E
PA-2R-2N-SS	1/8	1/8	27.7	14.3	10.4	9.7	4.8
PA-4R-4N-SS	1/4	1/4	36.3	19.1	15.0	14.2	7.1
PA-6R-6N-SS	3/8	3/8	38.4	22.2	15.0	14.2	9.6
PA-8R-8N-SS	1/2	1/2	49.8	27.0	19.8	19.1	11.9
PA-12R-12N-SS	3/4	3/4	51.3	33.3	20.6	19.1	15.7
PA-16R-16N-SS	1	1	58.4	41.3	25.4	23.9	22.4

Adapters - NPT x SAE / MS Straight



Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, SAE	L	F	B	Bx	E
PA-4N-7S-SS	1/4	7/16-20	33.5	19.1	15.0	9.1	5.1
PA-6N-9S-SS	3/8	9/16-18	35.3	23.8	15.0	9.9	7.1
PA-8N-12S-SS	1/2	3/4-16	44.7	27.0	19.8	11.2	10.7
PA-12N-17S-SS	3/4	1 1/16-12	50.5	34.9	20.6	15.0	16.8
PA-16N-21S-SS	1	1 5/16-12	53.8	41.3	25.4	15.0	21.5

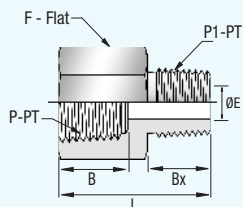
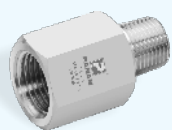
Adapters - ISO Parallel x NPT



Part No	Pipe Size		Dimensions				
	P-PT, BSPP	P1-PT, NPT	L	F	B	Bx	E
PA-2G-2N-SS	1/8	1/8	21.8	14.3	6.5	9.7	4.5
PA-4G-4N-SS	1/4	1/4	30.2	19.1	12.9	14.2	5.5
PA-6G-6N-SS	3/8	3/8	32.2	23.8	14.2	14.2	6.5
PA-8G-8N-SS	1/2	1/2	42.7	27.0	18.8	19.1	7.0

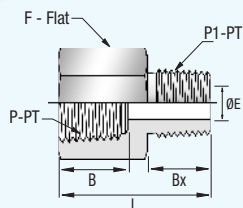
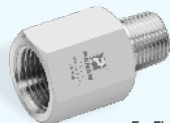
Instrumentation Pipe Fittings

Reducing Adapters - NPT



Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, NPT	L	F	B	Bx	E
PRA-2N-1N-SS	1/8	1/16	27.7	14.3	10.4	9.7	3.0
PRA-4N-1N-SS	1/4	1/16	30.5	19.1	15.0	9.7	3.0
PRA-4N-2N-SS	1/4	1/8	32.0	19.1	15.0	9.7	4.8
PRA-6N-1N-SS	3/8	1/16	31.8	22.2	15.0	9.7	3.0
PRA-6N-2N-SS	3/8	1/8	33.8	22.2	15.0	9.7	4.8
PRA-6N-4N-SS	3/8	1/4	38.1	22.2	15.0	14.2	7.1
PRA-8N-2N-SS	1/2	1/8	40.0	27.0	19.8	9.7	4.8
PRA-8N-4N-SS	1/2	1/4	44.7	27.0	19.8	14.2	7.1
PRA-8N-6N-SS	1/2	3/8	44.4	27.0	19.8	14.2	9.6
PRA-12N-2N-SS	3/4	1/8	39.6	33.3	20.6	9.7	4.8
PRA-12N-4N-SS	3/4	1/4	47.0	33.3	20.6	14.2	7.1
PRA-12N-6N-SS	3/4	3/8	46.2	33.3	20.6	14.2	9.6
PRA-12N-8N-SS	3/4	1/2	51.3	33.3	20.6	19.1	11.9
PRA-16N-2N-SS	1	1/8	46.0	41.3	25.4	9.7	4.8
PRA-16N-4N-SS	1	1/4	49.8	41.3	25.4	14.2	7.1
PRA-16N-6N-SS	1	3/8	50.8	41.3	25.4	14.2	9.6
PRA-16N-8N-SS	1	1/2	54.9	41.3	25.4	19.1	11.9
PRA-16N-12N-SS	1	3/4	55.1	41.3	25.4	19.1	15.7
PRA-20N-16N-SS	1 1/4	1	62.7	54.0	25.4	23.9	22.4

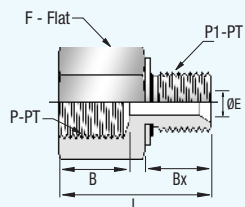
Reducing Adapters - ISO Tapered



Part No	Pipe Size		Dimensions				
	P-PT, BSPT	P1-PT, BSPT	L	F	B	Bx	E
PRA-4R-2R-SS	1/4	1/8	32.0	19.1	15.0	9.7	4.8
PRA-6R-4R-SS	3/8	1/4	38.1	22.2	15.0	14.2	7.1
PRA-8R-4R-SS	1/2	1/4	44.7	27.0	19.8	14.2	7.1
PRA-8R-6R-SS	1/2	3/8	44.4	27.0	19.8	14.2	9.7

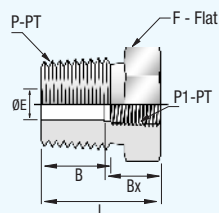
Instrumentation Pipe Fittings

Reducing Adapters - ISO Parallel



Part No	Pipe Size		Dimensions				
	P-PT, BSPP	P1-PT, BSPP	L	F	B	Bx	E
PRA-6G-4G-SS	3/8	1/4	37.1	22.0	15.0	11.0	4.7
PRA-8G-4G-SS	1/2	1/4	38.0	27.0	19.8	11.0	4.7
PRA-8G-6G-SS	1/2	3/8	45.3	30.0	19.8	12.0	7.9
PRA-12G-4G-SS	3/4	1/4	40.0	32.0	20.6	11.0	4.7
PRA-12G-6G-SS	3/4	3/8	41.6	32.0	20.6	12.0	7.9
PRA-12G-8G-SS	3/4	1/2	47.3	32.0	20.6	14.0	11.1
PRA-16G-4G-SS	1	1/4	43.0	41.0	25.4	11.0	4.7
PRA-16G-6G-SS	1	3/8	44.6	41.0	25.4	12.0	7.9
PRA-16G-8G-SS	1	1/2	50.3	41.0	25.4	14.0	11.1
PRA-16G-12G-SS	1	3/4	52.2	41.0	25.4	16.0	16.7

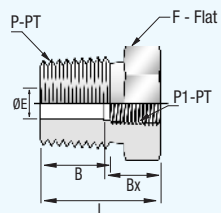
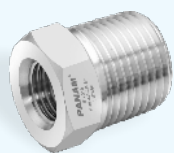
Reducing Bushings - NPT



Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, NPT	L	F	B	Bx	E
PRB-2N-1N-SS	1/8	1/16	26.2	11.1	9.7	9.9	4.8
PRB-4N-1N-SS	1/4	1/16	21.8	14.3	14.2	9.9	4.8
PRB-4N-2N-SS	1/4	1/8	26.9	14.3	14.2	10.4	7.1
PRB-6N-1N-SS	3/8	1/16	21.8	17.5	14.2	9.9	4.8
PRB-6N-2N-SS	3/8	1/8	21.8	17.5	14.2	10.4	7.1
PRB-6N-4N-SS	3/8	1/4	30.2	19.1	14.2	15.0	9.7
PRB-8N-2N-SS	1/2	1/8	27.4	22.2	19.1	10.4	7.1
PRB-8N-4N-SS	1/2	1/4	27.4	22.2	19.1	15.0	10.4
PRB-8N-6N-SS	1/2	3/8	35.8	22.2	19.1	15.0	11.9
PRB-12N-2N-SS	3/4	1/8	27.4	27.0	19.1	10.4	7.1
PRB-12N-4N-SS	3/4	1/4	27.4	27.0	19.1	15.0	10.4
PRB-12N-6N-SS	3/4	3/8	27.4	27.0	19.1	15.0	12.7
PRB-12N-8N-SS	3/4	1/2	41.4	27.0	19.1	19.8	15.7
PRB-16N-2N-SS	1	1/8	34.5	34.9	23.9	10.4	7.1
PRB-16N-4N-SS	1	1/4	34.8	34.9	23.9	15.0	10.4
PRB-16N-6N-SS	1	3/8	34.8	34.9	23.9	15.0	12.7
PRB-16N-8N-SS	1	1/2	34.8	34.9	23.9	19.8	15.7
PRB-16N-12N-SS	1	3/4	47.0	34.9	23.9	20.6	22.4

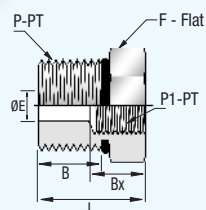
Instrumentation Pipe Fittings

Reducing Bushings - NPT x ISO Tapered



Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, BSPT	L	F	B	Bx	E
PRB-2N-1R-SS	1/8	1/16	26.2	11.1	9.7	9.9	4.8
PRB-4N-1R-SS	1/4	1/16	21.8	14.3	14.2	9.9	4.8
PRB-4N-2R-SS	1/4	1/8	26.9	14.3	14.2	10.4	7.1
PRB-6N-1R-SS	3/8	1/16	21.8	17.5	14.2	9.9	4.8
PRB-6N-2R-SS	3/8	1/8	21.8	17.5	14.2	10.4	7.1
PRB-6N-4R-SS	3/8	1/4	30.2	19.1	14.2	15.0	9.7
PRB-8N-2R-SS	1/2	1/8	27.4	22.2	19.1	10.4	7.1
PRB-8N-4R-SS	1/2	1/4	27.4	22.2	19.1	15.0	10.4
PRB-8N-6R-SS	1/2	3/8	35.8	22.2	19.1	15.0	11.9
PRB-12N-2R-SS	3/4	1/8	27.4	27.0	19.1	10.4	7.1
PRB-12N-4R-SS	3/4	1/4	27.4	27.0	19.1	15.0	10.4
PRB-12N-6R-SS	3/4	3/8	27.4	27.0	19.1	15.0	12.7
PRB-12N-8R-SS	3/4	1/2	41.4	27.0	19.1	19.8	15.7
PRB-16N-2R-SS	1	1/8	34.5	34.9	23.9	10.4	7.1
PRB-16N-4R-SS	1	1/4	34.8	34.9	23.9	15.0	10.4
PRB-16N-6R-SS	1	3/8	34.8	34.9	23.9	15.0	12.7
PRB-16N-8R-SS	1	1/2	34.8	34.9	23.9	19.8	15.7
PRB-16N-12R-SS	1	3/4	47.0	34.9	23.9	20.6	22.4

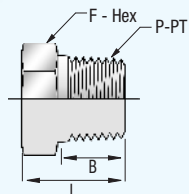
Reducing Bushing - SAE / MS Straight



Part No	Pipe Size		Dimensions				
	P-PT, SAE	P1-PT, SAE	L	F	B	Bx	E
PRB-9S-7S-SS	9/16-18	7/16-20	28.4	20.6	9.9	14.0	7.1
PRB-12S-7S-SS	3/4-16	7/16-20	24.9	22.2	11.2	14.0	9.9
PRB-12S-9S-SS	3/4-16	9/16-18	30.2	25.4	11.2	16.0	10.7
PRB-14S-9S-SS	7/8-14	9/16-18	27.9	25.4	12.7	16.0	12.7
PRB-14S-12S-SS	7/8-14	3/4-16	36.1	30.2	12.7	18.0	12.7
PRB-17S-12S-SS	1 1/16-12	3/4-16	32.3	31.8	15.0	18.0	16.5
PRB-21S-17S-SS	1 5/16-12	1 1/16-12	40.9	41.3	15.0	24.0	22.1
PRB-26S-21S-SS	1 5/8-12	1 5/16-12	50.3	54.0	15.0	24.0	27.7
PRB-30S-21S-SS	1 7/8-12	1 5/16-12	50.3	54.0	15.0	24.0	31.2

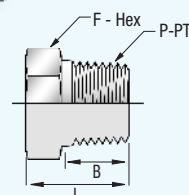
Instrumentation Pipe Fittings

Hex Plugs - NPT



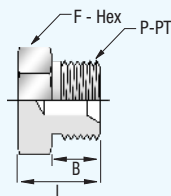
Part No	Pipe Size	Dimensions		
	P-PT, NPT	L	F	B
PHP-1N-SS	1/16	14.2	7.9	9.7
PHP-2N-SS	1/8	14.2	11.1	9.7
PHP-4N-SS	1/4	19.1	14.3	14.2
PHP-6N-SS	3/8	19.8	17.5	14.2
PHP-8N-SS	1/2	24.6	22.2	19.1
PHP-12N-SS	3/4	30.7	27.0	19.1
PHP-16N-SS	1	38.1	34.9	23.9
PHP-20N-SS	1 1/4	38.4	44.5	23.9
PHP-24N-SS	1 1/2	43.7	50.8	26.2
PHP-32N-SS	2	50.8	69.9	26.2

Hex Plugs - ISO Tapered



Part No	Pipe Size	Dimensions		
	P-PT, BSPT	L	F	B
PHP-1R-SS	1/16	14.2	7.9	9.7
PHP-2R-SS	1/8	14.2	11.1	9.7
PHP-4R-SS	1/4	19.1	14.3	14.2
PHP-6R-SS	3/8	19.8	17.5	14.2
PHP-8R-SS	1/2	24.6	22.2	19.1
PHP-12R-SS	3/4	30.7	27.0	19.1
PHP-16R-SS	1	38.1	34.9	23.9
PHP-20R-SS	1 1/4	38.4	44.5	23.9
PHP-24R-SS	1 1/2	43.7	50.8	26.2
PHP-32R-SS	2	50.8	69.9	26.2

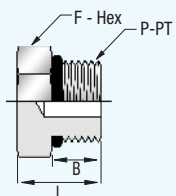
Hex Plugs - ISO Parallel



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

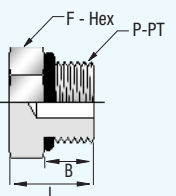
Instrumentation Pipe Fittings

Hex Plugs - SAE / MS Straight



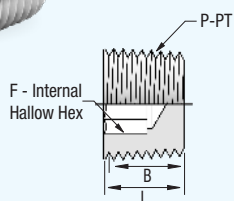
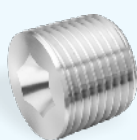
Part No	Pipe Size	Dimensions		
	P-PT, SAE	L	F	B
PHP-7S-SS	7/16-20	19.3	14.3	9.1
PHP-9S-SS	9/16-18	20.8	17.5	9.9
PHP-12S-SS	3/4-16	22.6	22.2	11.2
PHP-17S-SS	1 1/16-12	28.4	31.8	15.0
PHP-21S-SS	1 5/16-12	30.0	38.1	15.0

Hex Plugs - Metric



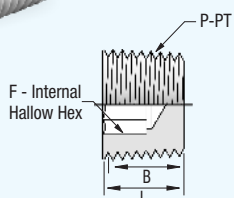
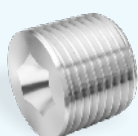
Part No	Pipe Size	Dimensions		
	P-PT, Metric	L	F	B
PHP-14M-SS	M14 x 1.5	21.0	20.6	12.0
PHP-16M-SS	M16 X1.5	23.0	22.2	12.0
PHP-18M-SS	M18 X 1.5	25.0	23.8	12.0
PHP-20M-SS	M20 X 1.5	26.5	25.4	14.0
PHP-22M-SS	M22 X 1.5	28.8	28.6	14.0
PHP-24M-SS	M24 X 1.5	29.0	35.0	14.0
PHP-27M-SS	M27 X 2	30.0	36.5	16.0

Hollow Hex Plugs - NPT



Part No	Pipe Size	Dimensions		
	P-PT, NPT	L	F	B
PHHP-1N-SS	1/16	7.6	4.0	7.4
PHHP-2N-SS	1/8	10.4	4.8	7.4
PHHP-4N-SS	1/4	15.5	6.4	12.4
PHHP-6N-SS	3/8	15.0	7.9	11.9
PHHP-8N-SS	1/2	19.3	9.5	16.2
PHHP-12N-SS	3/4	19.8	14.3	16.7
PHHP-16N-SS	1	20.8	15.9	17.7

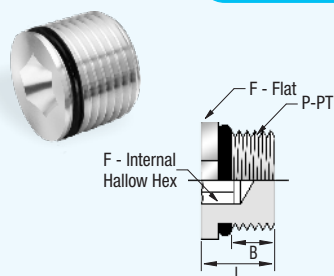
Hollow Hex Plugs - ISO Tapered



Part No	Pipe Size	Dimensions		
	P-PT, BSPT	L	F	B
PHHP-1R-SS	1/16	7.6	4.0	7.4
PHHP-2R-SS	1/8	10.4	4.8	7.4
PHHP-4R-SS	1/4	15.5	6.4	12.4
PHHP-6R-SS	3/8	15.5	7.9	12.4
PHHP-8R-SS	1/2	19.3	9.5	16.2
PHHP-12R-SS	3/4	19.8	14.3	16.7
PHHP-16R-SS	1	20.8	15.9	17.7

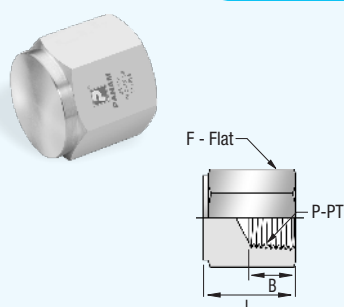
Instrumentation Pipe Fittings

Hollow Hex Plugs - SAE / MS Straight



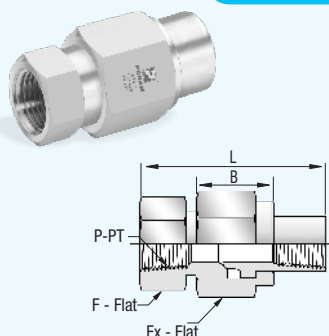
Part No	Pipe Size	Dimensions		
	P-PT, SAE	L	F	B
PHHP-7S-SS	7/16-20	11.4	14.2	9.1
PHHP-9S-SS	9/16-18	12.2	17.5	9.9
PHHP-12S-SS	3/4-16	14.2	22.4	11.2
PHHP-17S-SS	1 1/16-12	19.1	31.8	15.0
PHHP-21S-SS	1 5/16-12	19.1	38.1	15.0

Pipe Caps - NPT



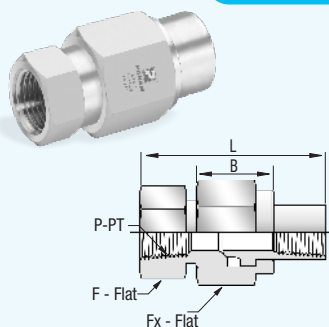
Part No	Pipe Size	Dimensions		
	P-PT, NPT	L	F	B
PPC-1N-SS	1/16	12.7	11.1	9.9
PPC-2N-SS	1/8	19.1	14.3	10.4
PPC-4N-SS	1/4	23.1	19.1	15.0
PPC-6N-SS	3/8	26.2	22.2	15.0
PPC-8N-SS	1/2	34.0	27.0	19.8
PPC-12N-SS	3/4	36.6	33.3	20.6
PPC-16N-SS	1	41.1	41.3	25.4

Union - NPT



Part No	Pipe Size	Dimensions				
	P-PT, NPT	L	F	Fx	B	E
PU-2N-SS	1/8	46.0	23.8	28.6	10.4	6.8
PU-4N-SS	1/4	59.4	30.2	34.9	15.0	9.1
PU-6N-SS	3/8	63.5	33.3	38.1	15.0	13.2
PU-8N-SS	1/2	68.3	41.3	44.5	19.8	15.7
PU-12N-SS	3/4	79.2	47.6	54.0	20.6	22.4
PU-16N-SS	1	90.4	60.3	63.5	25.4	26.2

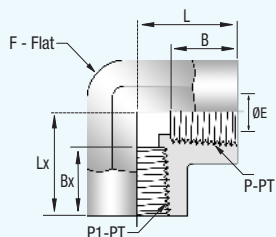
Union - ISO Tapered



Part No	Pipe Size	Dimensions				
	P-PT, BSPT	L	F	Fx	B	E
PU-2R-SS	1/8	46.0	23.8	28.6	10.4	6.8
PU-4R-SS	1/4	59.4	30.2	34.9	15.0	9.1
PU-6N-SS	3/8	63.5	33.3	38.1	15.0	13.2
PU-8R-SS	1/2	68.3	41.3	44.5	19.8	15.7
PU-12R-SS	3/4	79.2	47.6	54.0	20.6	22.4
PU-16R-SS	1	90.4	60.3	63.5	25.4	26.2

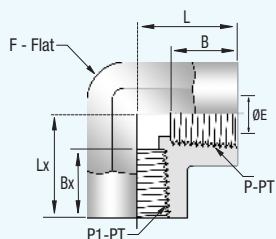
Instrumentation Pipe Fittings

Female Elbow - NPT



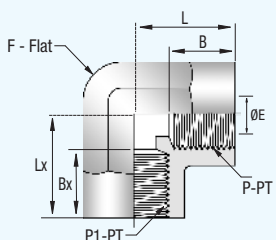
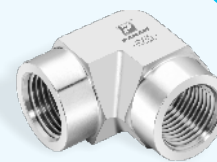
Part No	Pipe Size		Dimensions					
	P-PT, NPT	P1-PT, NPT	L	F	B	E	Lx	Bx
PFE-1N-SS	1/16	1/16	21.8	11.1	9.9	4.8	21.8	9.9
PFE-2N-1N-SS	1/8	1/16	26.4	12.7	10.4	4.8	26.4	9.9
PFE-2N-SS	1/8	1/8	26.4	12.7	10.4	7.1	26.4	10.4
PFE-4N-2N-SS	1/4	1/8	29.7	17.5	15.0	7.1	29.7	10.4
PFE-4N-SS	1/4	1/4	29.7	17.5	15.0	10.4	29.7	15.0
PFE-6N-SS	3/8	3/8	36.1	20.6	15.0	12.7	36.1	15.0
PFE-8N-SS	1/2	1/2	39.6	25.4	19.8	17.1	39.6	19.8
PFE-12N-SS	3/4	3/4	48.8	31.8	20.6	22.4	48.8	20.6
PFE-16N-SS	1	1	48.5	42.9	25.4	28.1	48.5	25.4
PFE-20N-SS	1 1/4	1 1/4	59.8	50.8	25.4	27.7	59.8	25.4
PFE-24N-SS	1 1/2	1 1/2	65.0	63.5	27.7	34.0	65.0	27.7

Female Elbow - ISO Tapered



Part No	Pipe Size		Dimensions					
	P-PT, BSPT	P1-PT, BSPT	L	F	B	E	Lx	Bx
PFE-1R-SS	1/16	1/16	21.8	11.1	9.9	4.8	21.8	9.9
PFE-2R-1R-SS	1/8	1/16	26.4	12.7	10.4	4.8	26.4	9.9
PFE-2R-SS	1/8	1/8	26.4	12.7	10.4	7.1	26.4	10.4
PFE-4R-2R-SS	1/4	1/8	29.7	17.5	15.0	7.1	29.7	10.4
PFE-4R-SS	1/4	1/4	29.7	17.5	15.0	10.4	29.7	15.0
PFE-6R-SS	3/8	3/8	36.1	20.6	15.0	12.7	36.1	15.0
PFE-8R-SS	1/2	1/2	39.6	25.4	19.8	17.1	39.6	19.8
PFE-12R-SS	3/4	3/4	48.8	31.8	20.6	22.4	48.8	20.6
PFE-16R-SS	1	1	48.5	42.9	25.4	28.1	48.5	25.4
PFE-20R-SS	1 1/4	1 1/4	59.8	50.8	25.4	27.7	59.8	25.4
PFE-24R-SS	1 1/2	1 1/2	65.0	63.5	27.7	34.0	65.0	27.7

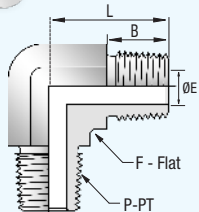
Female Elbow - ISO Parallel



Part No	Pipe Size		Dimensions					
	P-PT, BSPP	P1-PT, BSPP	L	F	B	E	Lx	Bx
PFE-1G-SS	1/16	1/16	21.8	11.1	9.9	4.8	21.8	9.9
PFE-2G-1G-SS	1/8	1/16	26.4	12.7	10.4	4.8	26.4	9.9
PFE-2G-SS	1/8	1/8	26.4	12.7	10.4	7.1	26.4	10.4
PFE-4G-2G-SS	1/4	1/8	29.7	17.5	15.0	7.1	29.7	10.4
PFE-4G-SS	1/4	1/4	29.7	17.5	15.0	10.4	29.7	15.0
PFE-6G-SS	3/8	3/8	36.1	20.6	15.0	12.7	36.1	15.0
PFE-8G-SS	1/2	1/2	39.6	25.4	19.8	17.1	39.6	19.8
PFE-12G-SS	3/4	3/4	48.8	31.8	20.6	22.4	48.8	20.6
PFE-16G-SS	1	1	48.5	42.9	25.4	28.1	48.5	25.4
PFE-20G-SS	1 1/4	1 1/4	59.8	50.8	25.4	27.7	59.8	25.4
PFE-24G-SS	1 1/2	1 1/2	65.0	63.5	27.7	34.0	65.0	27.7

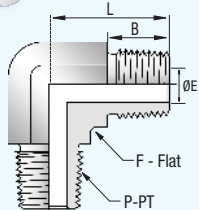
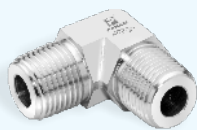
Instrumentation Pipe Fittings

Male Elbow - NPT



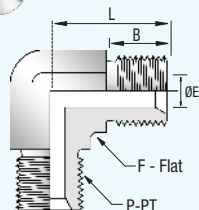
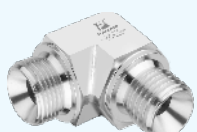
Part No	Pipe Size	Dimensions			
	P-PT, NPT	L	F	B	E
PME-1N-SS	1/16	18.3	9.5	9.7	3.0
PME-2N-SS	1/8	22.4	11.1	9.7	4.8
PME-4N-SS	1/4	26.7	12.7	14.2	7.1
PME-6N-SS	3/8	29.7	17.5	14.2	9.6
PME-8N-SS	1/2	36.8	20.6	19.1	11.9
PME-12N-SS	3/4	40.4	27.0	19.1	15.7
PME-16N-SS	1	50.0	34.9	23.9	22.4

Male Elbow - ISO Tapered



Part No	Pipe Size	Dimensions			
	P-PT, BSPT	L	F	B	E
PME-1R-SS	1/16	18.3	9.5	9.7	3.0
PME-2R-SS	1/8	22.4	11.1	9.7	4.8
PME-4R-SS	1/4	26.7	12.7	14.2	7.1
PME-6R-SS	3/8	29.7	17.5	14.2	9.6
PME-8R-SS	1/2	36.8	20.6	19.1	11.9
PME-12R-SS	3/4	40.4	27.0	19.1	15.7
PME-16R-SS	1	50.0	34.9	23.9	22.4

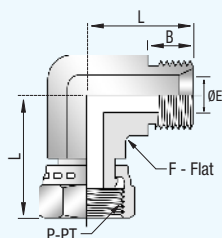
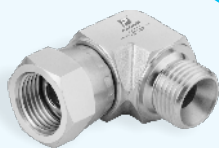
Male Elbow - ISO Parallel



Part No	Pipe Size	Dimensions			
	P-PT, BSPP	L	F	B	E
PME-2G-SS	1/8	16.6	11.0	8.0	3.5
PME-4G-SS	1/4	27.8	14.0	11.0	4.7
PME-6G-SS	3/8	31.7	19.0	12.0	7.9
PME-8G-SS	1/2	37.0	22.0	14.0	11.1
PME-10G-SS	5/8	39.0	22.0	16.0	14.3
PME-12G-SS	3/4	41.6	27.0	16.0	16.7
PME-16G-SS	1	49.7	23.0	19.0	22.2

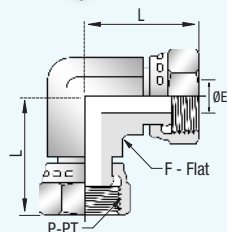
Instrumentation Pipe Fittings

Swivel Male Elbow



Part No	Pipe Size	Dimensions				
	P-PT, BSPP	L	L1	F	B	E
PME-2G-SWL-SS	1/8	16.6	22.0	11.0	8.0	3.5
PME-4G-SWL-SS	1/4	27.8	31.2	19.0	11.0	4.7
PME-6G-SWL-SS	3/8	31.7	36.2	22.0	12.0	7.9
PME-8G-SWL-SS	1/2	37.0	41.0	27.0	14.0	11.1
PME-10G-SWL-SS	5/8	39.0	41.6	27.0	16.0	14.3
PME-12G-SWL-SS	3/4	41.6	45.3	33.0	16.0	16.7
PME-16G-SWL-SS	1	49.7	53.9	41.0	19.0	22.2
PME-20G-SWL-SS	1 1/4	54.4	60.0	48.0	20.0	28.6
PME-24G-SWL-SS	1 1/2	53.7	63.3	48.0	22.0	33.3

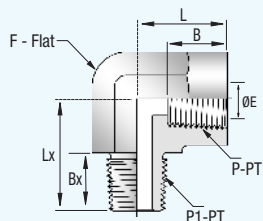
Swivel Union Elbow



Part No	Pipe Size	Dimensions		
	P-PT, BSPP	F	L	E
PUE-4G-SWL-SS	1/4	14.0	30.5	4.7
PUE-6G-SWL-SS	3/8	19.0	33.0	7.9
PUE-8G-SWL-SS	1/2	22.0	38.8	11.1
PUE-10G-SWL-SS	5/8	22.0	39.4	14.3
PUE-12G-SWL-SS	3/4	27.0	42.3	16.7
PUE-16G-SWL-SS	1	33.0	49.0	22.2
PUE-20G-SWL-SS	1 1/4	41.0	58.2	28.6
PUE-24G-SWL-SS	1 1/2	48.0	63.3	33.3

Instrumentation Pipe Fittings

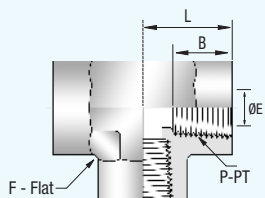
Street Elbow - NPT



Part No	Pipe Size		Dimensions					
	P-PT, NPT	P1-PT, NPT	L	F	B	E	Lx	Bx
PSE-1N-SS	1/16	1/16	21.8	11.1	9.9	3.0	22.4	9.7
PSE-1N-2N-SS	1/16	1/8	21.8	11.1	9.9	4.8	22.4	9.7
PSE-1N-4N-SS	1/16	1/4	22.4	14.3	9.9	4.8	27.7	14.2
PSE-1N-6N-SS	1/16	3/8	22.4	17.5	9.9	4.8	29.7	14.2
PSE-2N-1N-SS	1/8	1/16	26.4	12.7	10.4	3.0	22.1	9.7
PSE-2N-SS	1/8	1/8	26.4	12.7	10.4	4.8	22.1	9.7
PSE-2N-4N-SS	1/8	1/4	22.4	14.3	10.4	7.1	27.7	14.2
PSE-2N-6N-SS	1/8	3/8	22.4	17.5	10.4	7.1	29.7	14.2
PSE-2N-8N-SS	1/8	1/2	24.1	20.6	10.4	7.1	36.8	19.1
PSE-2N-12N-SS	1/8	3/4	25.4	27.0	10.4	7.1	40.4	19.1
PSE-2N-16N-SS	1/8	1	26.4	34.9	10.4	7.1	50.0	23.9
PSE-4N-2N-SS	1/4	1/8	29.7	17.5	15.0	4.8	25.4	9.7
PSE-4N-SS	1/4	1/4	29.7	17.5	15.0	7.1	29.7	14.2
PSE-4N-6N-SS	1/4	3/8	29.7	17.5	15.0	8.6	29.7	14.2
PSE-4N-8N-SS	1/4	1/2	25.4	20.6	15.0	8.6	36.8	19.1
PSE-4N-12N-SS	1/4	3/4	25.4	27.0	15.0	8.6	40.4	19.1
PSE-4N-16N-SS	1/4	1	41.4	34.9	15.0	8.6	50.0	23.9
PSE-6N-4N-SS	3/8	1/4	36.1	20.6	15.0	7.1	32.0	14.2
PSE-6N-SS	3/8	3/8	36.1	20.6	15.0	9.6	32.0	14.2
PSE-6N-8N-SS	3/8	1/2	36.1	20.6	15.0	11.9	36.8	19.1
PSE-6N-12N-SS	3/8	3/4	31.2	27.0	15.0	11.9	40.4	19.1
PSE-6N-16N-SS	3/8	1	41.4	34.9	15.0	11.9	50.0	23.9
PSE-8N-4N-SS	1/2	1/4	39.6	25.4	19.8	7.1	35.1	14.2
PSE-8N-6N-SS	1/2	3/8	39.6	25.4	19.8	9.6	35.1	14.2
PSE-8N-SS	1/2	1/2	39.6	25.4	19.8	11.9	39.6	19.1
PSE-8N-12N-SS	1/2	3/4	31.2	27.0	19.8	15.7	40.4	19.1
PSE-8N-16N-SS	1/2	1	41.4	34.9	19.8	15.7	50.0	23.9
PSE-12N-SS	3/4	3/4	48.8	31.8	20.6	15.7	42.4	19.1
PSE-12N-16N-SS	3/4	1	41.4	34.9	20.6	22.4	50.0	23.9
PSE-16N-SS	1	1	48.5	42.9	25.4	22.4	49.3	23.9
PSE-20N-SS	1 1/4	1 1/4	60.5	50.8	25.4	31.8	60.5	23.9

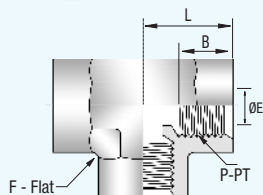
Instrumentation Pipe Fittings

Female Tee - NPT



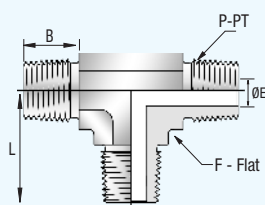
Part No	Pipe Size	Dimensions			
	P-PT, NPT	L	F	B	E
PFT-1N-SS	1/16	21.8	11.1	9.9	4.8
PFT-2N-SS	1/8	26.4	12.7	10.4	8.6
PFT-4N-SS	1/4	29.7	17.5	15.0	11.4
PFT-6N-SS	3/8	36.1	20.6	15.0	15.0
PFT-8N-SS	1/2	39.6	25.4	19.8	18.5
PFT-12N-SS	3/4	48.8	31.8	20.6	23.9
PFT-16N-SS	1	48.5	42.9	25.4	29.7
PFT-20N-SS	1 1/4	59.8	50.8	25.4	37.2
PFT-24N-SS	1 1/2	65.0	63.5	27.7	43.3

Female Tee - ISO Parallel



Part No	Pipe Size	Dimensions			
	P-PT, BSPP	L	F	B	E
PFT-1G-SS	1/16	21.8	11.1	9.9	4.8
PFT-2G-SS	1/8	26.4	12.7	10.4	8.6
PFT-4G-SS	1/4	29.7	17.5	15.0	11.4
PFT-6G-SS	3/8	36.1	20.6	15.0	15.0
PFT-8G-SS	1/2	39.6	25.4	19.8	18.5
PFT-12G-SS	3/4	48.8	31.8	20.6	23.9
PFT-16G-SS	1	48.5	42.9	25.4	29.7
PFT-20G-SS	1 1/4	59.8	50.8	25.4	37.2
PFT-24G-SS	1 1/2	65.0	63.5	27.7	43.3

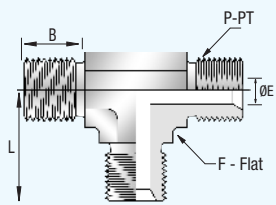
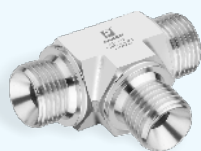
Male Tee - NPT



Part No	Pipe Size	Dimensions			
	P-PT, NPT	L	F	B	E
PMT-1N-SS	1/16	18.3	9.5	9.7	3.0
PMT-2N-SS	1/8	22.4	11.1	9.7	4.8
PMT-4N-SS	1/4	26.7	12.7	14.2	7.1
PMT-6N-SS	3/8	29.7	17.5	14.2	9.6
PMT-8N-SS	1/2	36.8	20.6	19.1	11.9
PMT-12N-SS	3/4	42.4	27.0	19.1	15.7
PMT-16N-SS	1	49.3	34.9	23.9	22.4
PMT-20N-SS	1 1/4	56.4	42.9	23.9	27.7
PMT-24N-SS	1 1/2	67.1	47.6	26.2	34.0

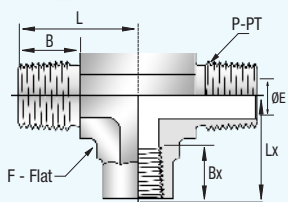
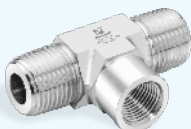
Instrumentation Pipe Fittings

Male Tee - ISO Parallel



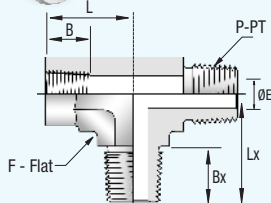
Part No	Pipe Size	Dimensions			
	P-PT, BSPP	L	F	B	E
PMT-2G-SS	1/8	16.6	11.0	8.0	3.5
PMT-4G-SS	1/4	27.8	19.0	11.0	4.7
PMT-6G-SS	3/8	31.7	22.0	12.0	7.9
PMT-8G-SS	1/2	37.0	27.0	14.0	11.1
PMT-10G-SS	5/8	39.0	27.0	16.0	14.3
PMT-12G-SS	3/4	41.9	33.0	16.0	16.7
PMT-16G-SS	1	49.7	41.0	19.0	22.2
PMT-20G-SS	1 1/4	54.4	48.0	20.0	28.6
PMT-24G-SS	1 1/2	53.7	48.0	22.0	33.3

Female Branch Tee - NPT



Part No	Pipe Size	Dimensions					
	P-PT, NPT	L	F	B	E	Lx	Bx
PFBT-1N-SS	1/16	18.3	11.1	9.7	3.0	21.8	9.9
PFBT-2N-SS	1/8	22.1	12.7	9.7	4.8	26.4	10.4
PFBT-4N-SS	1/4	29.7	17.5	14.2	7.1	29.7	15.0
PFBT-6N-SS	3/8	32.0	20.6	14.2	9.6	36.1	15.0
PFBT-8N-SS	1/2	39.6	25.4	19.1	11.9	39.6	19.8
PFBT-12N-SS	3/4	42.4	31.8	19.1	15.7	48.8	20.6
PFBT-16N-SS	1	49.3	42.9	23.9	22.4	48.5	25.4

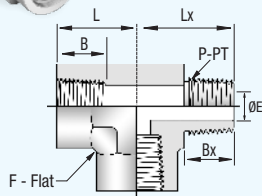
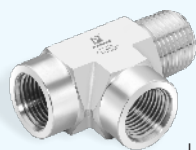
Female Run Tee - NPT



Part No	Pipe Size	Dimensions					
	P-PT, NPT	L	F	B	E	Lx	Bx
PFRT-1N-SS	1/16	21.8	11.1	9.9	3.0	18.3	9.7
PFRT-2N-SS	1/8	26.4	12.7	10.4	4.8	22.1	9.7
PFRT-4N-SS	1/4	29.7	17.5	15.0	7.1	29.7	14.2
PFRT-6N-SS	3/8	36.1	20.6	15.0	9.6	32.0	14.2
PFRT-8N-SS	1/2	39.6	25.4	19.8	11.9	39.6	19.1
PFRT-12N-SS	3/4	48.8	31.8	20.6	15.7	42.4	19.1
PFRT-16N-SS	1	48.5	42.9	25.4	22.4	49.3	23.9

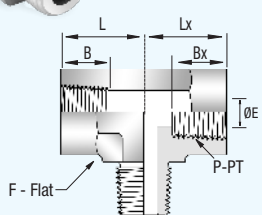
Instrumentation Pipe Fittings

Street Tee - NPT



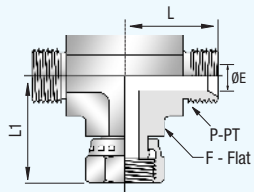
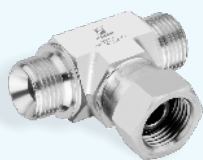
Part No	Pipe Size	Dimensions					
	P-PT, NPT	L	F	B	E	Lx	Bx
PST-1N-SS	1/16	21.8	11.1	9.9	3.0	18.3	9.7
PST-2N-SS	1/8	26.4	12.7	10.4	4.8	22.1	9.7
PST-4N-SS	1/4	29.7	17.5	15.0	7.1	29.7	14.2
PST-6N-SS	3/8	36.1	20.6	15.0	9.6	32.0	14.2
PST-8N-SS	1/2	39.6	25.4	19.8	11.9	39.6	19.1
PST-12N-SS	3/4	48.8	31.8	20.6	15.7	42.4	19.1
PST-16N-SS	1	48.5	42.9	25.4	22.4	49.3	23.9

Branch Tee - NPT



Part No	Pipe Size	Dimensions					
	P-PT, NPT	L	F	B	E	Lx	Bx
PBT-1N-SS	1/16	21.8	11.1	9.9	3.0	18.3	9.7
PBT-2N-SS	1/8	26.4	12.7	10.4	4.8	22.1	9.7
PBT-4N-SS	1/4	29.7	17.5	15.0	7.1	29.7	14.2
PBT-6N-SS	3/8	36.1	20.6	15.0	9.6	32.0	14.2
PBT-8N-SS	1/2	39.6	25.4	19.8	11.9	39.6	19.1
PBT-12N-SS	3/4	48.8	31.8	20.6	15.7	42.4	19.1
PBT-16N-SS	1	48.5	42.9	25.4	22.4	49.3	23.9

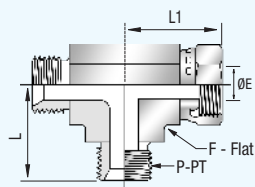
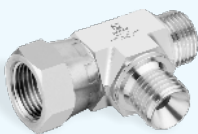
Swivel Branch Tee



Part No	Pipe Size	Dimensions			
	P-PT, BSPP	L	L1	F	E
PBT-2G-SWL-SS	1/8	16.6	22.0	11.0	3.5
PBT-4G-SWL-SS	1/4	27.8	31.2	19.0	4.7
PBT-6G-SWL-SS	3/8	31.7	36.2	27.0	7.9
PBT-8G-SWL-SS	1/2	37.0	41.0	27.0	11.1
PBT-10G-SWL-SS	5/8	39.0	41.6	27.0	14.3
PBT-12G-SWL-SS	3/4	41.6	45.3	33.0	16.7
PBT-16G-SWL-SS	1	49.7	53.9	41.0	22.2
PBT-20G-SWL-SS	1 1/4	54.4	60.0	48.0	28.6

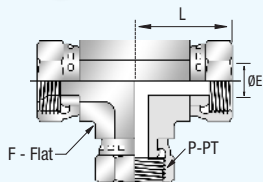
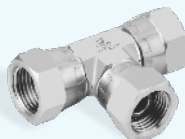
Instrumentation Pipe Fittings

Swivel Run Tee



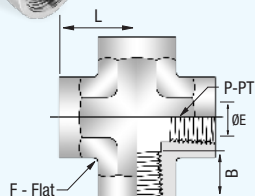
Part No	Pipe Size	Dimensions			
	P-PT, BSPP	L	L1	F	E
PRT-2G-SWL-SS	1/8	16.6	22.0	11.0	3.5
PRT-4G-SWL-SS	1/4	27.8	31.2	19.0	4.7
PRT-6G-SWL-SS	3/8	31.7	36.2	27.0	7.9
PRT-8G-SWL-SS	1/2	37.0	41.0	27.0	11.1
PRT-10G-SWL-SS	5/8	39.0	41.6	27.0	14.3
PRT-12G-SWL-SS	3/4	41.6	45.3	33.0	16.7
PRT-16G-SWL-SS	1	49.7	53.9	41.0	22.2
PRT-20G-SWL-SS	1 1/4	54.4	60.0	48.0	28.6

Swivel Union Tee



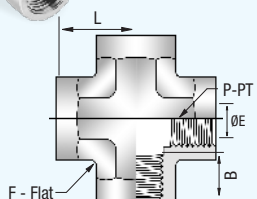
Part No	Pipe Size	Dimensions		
	P-PT, BSPP	L	F	E
PUT-4G-SWL-SS	1/4	30.5	14.0	4.7
PUT-6G-SWL-SS	3/8	33.0	19.0	7.9
PUT-8G-SWL-SS	1/2	38.8	22.0	11.0
PUT-10G-SWL-SS	5/8	39.4	22.0	14.3
PUT-12G-SWL-SS	3/4	42.3	27.0	16.7
PUT-16G-SWL-SS	1	49.0	33.0	22.2
PUT-20G-SWL-SS	1 1/4	58.2	41.0	28.6

Female Cross - NPT



Part No	Pipe Size	Dimensions			
	P-PT, NPT	L	F	B	E
PC-1N-SS	1/16	21.8	11.1	9.9	4.8
PC-2N-SS	1/8	26.4	12.7	10.4	8.6
PC-4N-SS	1/4	29.7	17.5	15.0	11.4
PC-6N-SS	3/8	36.1	20.6	15.0	15.0
PC-8N-SS	1/2	39.6	25.4	19.8	18.5
PC-12N-SS	3/4	48.8	31.8	20.6	23.9
PC-16N-SS	1	48.5	42.9	25.4	29.7

Female Cross - ISO Tapered



Part No	Pipe Size	Dimensions			
	P-PT, BSPT	L	F	B	E
PC-1R-SS	1/16	21.8	11.1	9.9	4.8
PC-2R-SS	1/8	26.4	12.7	10.4	8.6
PC-4R-SS	1/4	29.7	17.5	15.0	11.4
PC-6R-SS	3/8	36.1	20.6	15.0	15.0
PC-8R-SS	1/2	39.6	25.4	19.8	18.5
PC-12R-SS	3/4	48.8	31.8	20.6	23.9
PC-16R-SS	1	48.5	42.9	25.4	29.7

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