PANAM®

ENGINEERING BEYOND LIMITS

Pipe Fittings

Maximum Working Pressure upto 10000 psig (689 bar)

+91 22 4146 9000 sales@panam.in www.panam.in

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 Plpe 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.

Contents

Features & Ordering Information 01

Hex Nipples NPT 02

Hex Nipples ISO Tapered 02

Hex Nipples ISO Parallel 02

Hex Nipples NPT x ISO Tapered 03

Hex Nipples NPT x ISO Parallel 03

Hex Nipples NPT x SAE/MS Straight 03

Hex Nipples NPT x Metric 04

Bulkhead Union ISO Parallel 04

Swivel Connector ISO Parallel 04

Swivel Union ISO Parallel 05

Hex Reducing Nipples NPT 05

Hex Reducing Nipples ISO Parallel 06

Hex Reducing Nipples ISO Parallel x NPT 06

Hex Long Nipples NPT 07

Hex Long Nipples ISO Tapered 08

Close Nipples NPT 08

Close Nipples ISO Tapered 09

Long Pipe Nipples NPT 09

Hex Couplings NPT 10

Hex Couplings ISO Tapered 10

Hex Couplings ISO Parallel 10

Reducing Hex Couplings NPT 10

Adapters NPT 11

Adapters NPT x ISO Tapered 11

Adapters ISO Parallel 11

Adapters NPT x ISO Parallel 11

Adapters ISO Tapered 12

Adapters ISO Tapered x NPT 12

Adapters NPT x SAE/MS Straight 12

Adapters ISO Parallel x NPT 12

Reducing Adapters NPT 13

Reducing Adapters ISO Tapered 13

Reducing Adapters ISO Parallel 14

Reducing Bushing NPT 14

Reducing Bushing NPT x ISO Tapered 15

Contents

Reducing Busing
SAE / MS Straight
15

Hex Plugs
NPT
16

Plugs
ISO Tapered
16

Plugs
ISO Parallel
16

Plugs
SAE / MS Straight
17

Plugs
Metric
17

Hallow Hex Plugs
NPT
17

Hallow Hex Plugs
ISO Tapered
17

Hallow Hex Plugs
SAE / MS Straight
18

Pipe Caps
NPT
18

Union
NPT
18

Union
ISO Tapered
18

Female Elbow
NPT
19

Female Elbow
ISO Tapered
19

Female Elbow
ISO Parallel
19

Male Elbow
NPT
20

Male Elbow
ISO Tapered
20

Male Elbow
ISO Parallel
20

Swivel Male Elbow
ISO Parallel
21

Swivel Union Elbow
ISO Parallel
21

Street Elbow
NPT
22

Female Tee
NPT
23

Female Tee
ISO Parallel
23

Male Tee
NPT
23

Male Tee
ISO Parallel
24

Female Branch Tee
NPT
24

Female Run Tee
NPT
24

Street Tee
NPT
25

Branch Tee
NPT
25

Swivel Branch Tee
ISO Parallel
25

Swivel Run Tee
ISO Parallel
26

Swivel Union Tee
ISO Parallel
26

Female Cross
NPT
26

Female Cross
ISO Tapered
26

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	
HN	Hex Nipples
BHU	Bulkhead Union
SC	Swivel Connector
SU	Swivel Union
HRN	Hex Reducing Nipples
HLN	Hex Long Nipples
CN	Close Nipples
LPN	Long Pipe Nipples
HC	Hex Couplings
RHC	Reducing Hex Couplings
A	Adapters
RA	Reducing Adapters
RB	Reducing Bushing
HP	Hex Plugs
HHP	Hallow Hex Plugs
PC	Pipe Caps
U	Union
FE	Female Elbow
ME	Male Elbow
UE	Union Elbow
SE	Street Elbow
FT	Female Tee
MT	Male Tee
FBT	Female Branch Tee
FRT	Female Run Tee
ST	Street Tee
BT	Branch Tee
RT	Run Tee
UT	Union Tee
C	Cross

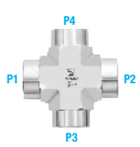
P1 Size	
1	1/16
2	1/8
3	3/16
4	1/4
5	5/16-24
6	3/8 or 3/8-24
7	7/16-20
8	1/2 or M8 x 1
9	9/16-18
10	5/8 or M10 x 1
12	3/4 or 3/4-16 or M12 x 1.5
14	7/8-14 or M14 x 1.5
16	1 or M16 x 1.5
17	1 1/16-12
18	M18 x 1.5
19	1 3/16-12
20	1 1/4 or M20 x 1.5
21	1 5/16-12
22	M22 x 1.5
24	1 1/2 or M24 x 1.5
26	1 5/8-12
27	M27 x 2
30	1 7/8-12 or M30 x 2
32	2

P1 Type	
N	NPT Threads
R	ISO Tapered Threads
G	ISO Parallel Threads
M	Metric Threads
S	SAE/MS Straight Threads
J	37° Flare

P2, P3, and P4
Specify as per P Type and P Size

Material	
SS	316 SS
B	Brass
M	Alloy 400
INC	Alloy 600
CS	Carbon Steel

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

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.

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

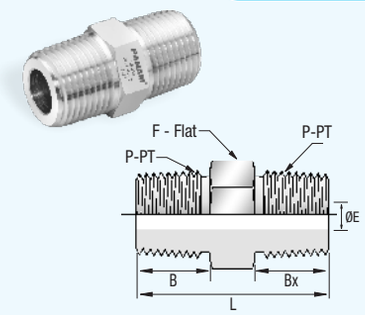
Pressure Ratings

	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

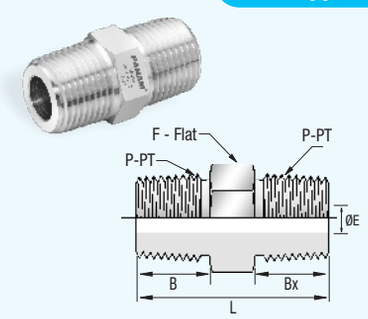
Thread Relevant Standards	
NPT Threads	ASME B1.20.1, SAE AS71051
ISO Tapered Threads	ISO 7-1, BS 21, JIS B0203
ISO Parallel Threads	ISO 228, JIS B0202
SAE/MS	ASME B1.1, SAE J475
Metric	ISO 261

Hex Nipple - NPT



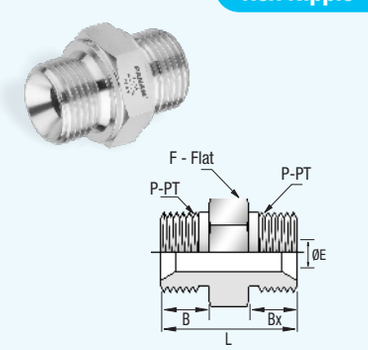
Part No	Pipe Size	Dimensions				
	P-PT, NPT	L	F	B	Bx	E
PHN-1N-SS	1/16	25.6	7.9	9.7	9.7	3.0
PHN-2N-SS	1/8	25.6	11.1	9.7	9.7	4.8
PHN-4N-SS	1/4	35.6	14.3	14.2	14.2	7.1
PHN-6N-SS	3/8	36.3	17.5	14.2	14.2	9.7
PHN-8N-SS	1/2	46.7	22.2	19.1	19.1	11.9
PHN-12N-SS	3/4	46.7	27.0	19.1	19.1	15.7
PHN-16N-SS	1	58.9	34.9	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



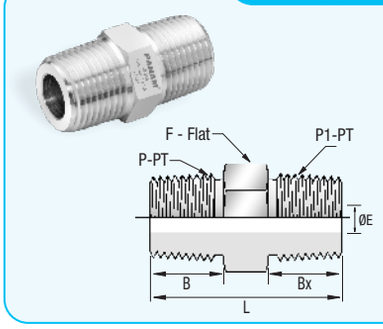
Part No	Pipe Size	Dimensions				
	P-PT, BSPT	L	F	B	Bx	E
PHN-2R-SS	1/8	25.6	11.1	9.7	9.7	4.8
PHN-4R-SS	1/4	35.6	14.3	14.2	14.2	7.1
PHN-6R-SS	3/8	36.3	17.5	14.2	14.2	9.7
PHN-8R-SS	1/2	46.7	22.2	19.1	19.1	11.9
PHN-12R-SS	3/4	46.7	27.0	19.1	19.1	15.7
PHN-16R-SS	1	58.9	34.9	23.9	23.9	22.4

Hex Nipple - ISO Parallel



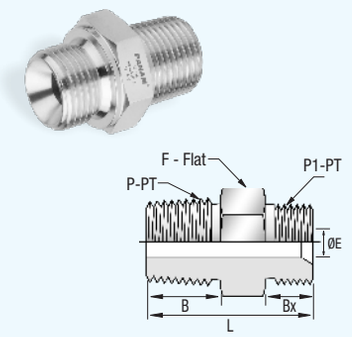
Part No	Pipe Size	Dimensions				
	P-PT, BSPP	L	F	B	Bx	E
PHN-2G-SS	1/8	23.5	14.0	8.0	8.0	3.5
PHN-4G-SS	1/4	31.5	19.0	11.0	11.0	4.7
PHN-6G-SS	3/8	34.7	22.0	12.0	12.0	7.9
PHN-8G-SS	1/2	40.7	27.0	14.0	14.0	11.1
PHN-10G-SS	5/8	45.2	30.0	16.0	16.0	14.3
PHN-12G-SS	3/4	45.2	32.0	16.0	16.0	16.7
PHN-16G-SS	1	51.9	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

Hex Nipple - NPT x ISO Tapered



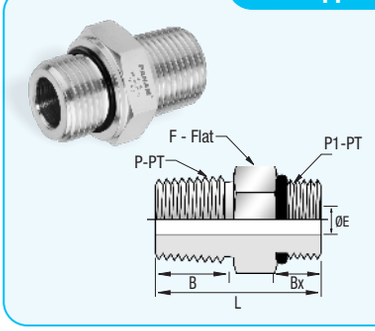
Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, BSPT	L	F	B	Bx	E
PHN-2N-2R-SS	1/8	1/8	25.6	11.1	9.7	9.7	4.8
PHN-4N-4R-SS	1/4	1/4	35.6	14.3	14.2	14.2	7.1
PHN-6N-6R-SS	3/8	3/8	36.3	17.5	14.2	14.2	9.7
PHN-8N-8R-SS	1/2	1/2	46.7	22.2	19.1	19.1	11.9
PHN-12N-12R-SS	3/4	3/4	46.7	27.0	19.1	19.1	15.7
PHN-16N-16R-SS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

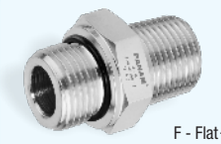
Hex Nipple - NPT x SAE / MS Straight

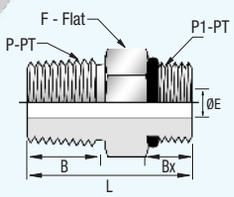


Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, SAE	L	F	B	Bx	E
PHN-4N-7S-SS	1/4	7/16-20	30.5	14.3	14.2	9.1	5.1
PHN-6N-9S-SS	3/8	9/16-18	32.0	17.5	14.2	9.1	7.1
PHN-8N-12S-SS	1/2	3/4-16	38.9	22.2	19.1	11.2	10.7
PHN-12N-17S-SS	3/4	1 1/16-12	44.4	31.8	19.1	15.0	15.7
PHN-16N-21S-SS	1	1 5/16-12	50.8	38.1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

Instrumentation Pipe Fittings

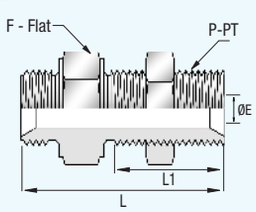
Hex Nipple - NPT x Metric





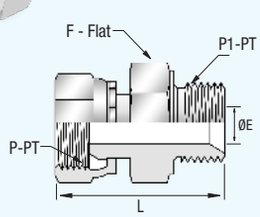
Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, Metric	L	F	B	Bx	E
PHN-4N-8M-SS	1/4	M8 x1	29.0	14.3	14.2	9.0	3.2
PHN-4N-14M-SS	1/4	M14 x1.5	34.2	15.9	14.2	13.0	7.0
PHN-4N-16M-SS	1/4	M16 x 1.5	35.2	17.5	14.2	14.0	7.1
PHN-4N-20M-SS	1/4	M20 x 1.5	37.2	22.2	14.2	16.0	7.1
PHN-6N-14M-SS	3/8	M14 x1.5	34.2	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



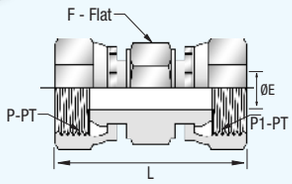
Part No	Pipe Size	Dimensions			
	P-PT, BSPP	L	L1	F	E
PBHU-4G-SS	1/4	46.8	28.0	19.0	4.7
PBHU-6G-SS	3/8	52.5	32.0	22.0	7.9
PBHU-8G-SS	1/2	59.0	35.0	27.0	11.1
PBHU-10G-SS	5/8	61.5	35.0	30.0	14.3
PBHU-12G-SS	3/4	64.5	38.0	32.0	16.7
PBHU-16G-SS	1	71.2	41.0	41.0	22.2
PBHU-20G-SS	1 1/4	82.7	44.0	50.0	28.6
PBHU-24G-SS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

Swivel Connector - ISO Parallel



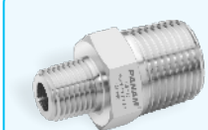
Part No	Pipe Size		Dimensions		
	P-PT, BSPP	P1PT, BSPP	L	F	E
PSC-4G-SWL-SS	1/4	1/4	36.6	19.0	4.7
PSC-4G-6G-SWL-SS	1/4	3/8	38.5	22.0	4.7
PSC-4G-8G-SWL-SS	1/4	1/2	42.0	27.0	4.7
PSC-6G-4G-SWL-SS	3/8	1/4	38.3	22.0	4.7
PSC-6G-SWL-SS	3/8	3/8	40.0	22.0	7.9
PSC-6G-8G-SWL-SS	3/8	1/2	43.6	27.0	7.9
PSC-8G-6G-SWL-SS	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

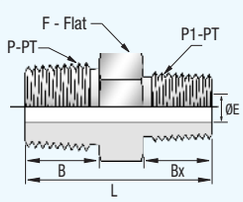
Swivel Union - ISO Parallel



Part No	Pipe Size		Dimensions		
	P-PT, BSPP	P-PT1, 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

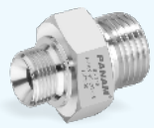
Hex Reducing Nipple - NPT

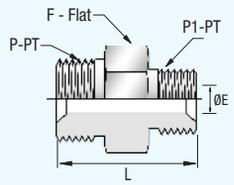




Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, NPT	L	F	B	Bx	E
PHRN-2N-1N-SS	1/8	1/16	25.6	11.1	9.7	9.7	3.0
PHRN-4N-1N-SS	1/4	1/16	31.0	14.3	14.2	9.7	3.0
PHRN-4N-2N-SS	1/4	1/8	31.0	14.3	14.2	9.7	4.8
PHRN-6N-1N-SS	3/8	1/16	31.8	17.5	14.2	9.7	3.0
PHRN-6N-2N-SS	3/8	1/8	31.8	17.5	14.2	9.7	4.8
PHRN-6N-4N-SS	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

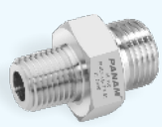
Hex Reducing Nipple - ISO Parallel

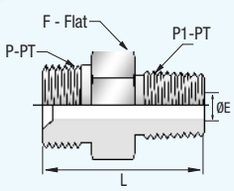




Part No	Pipe Size		Dimensions		
	P-PT, BSPP	P1-PT, BSPP	L	F	E
PHRN-4G-2G-SS	1/4	1/8	28.0	19.0	3.5
PHRN-6G-4G-SS	3/8	1/4	33.2	22.0	4.7
PHRN-8G-4G-SS	1/2	1/4	36.7	27.0	4.7
PHRN-8G-6G-SS	1/2	3/8	38.2	27.0	7.9
PHRN-10G-8G-SS	5/8	1/2	43.2	30.0	11.1
PHRN-12G-4G-SS	3/4	1/4	39.2	32.0	4.7
PHRN-12G-6G-SS	3/4	3/8	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

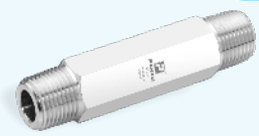
Hex Reducing Nipple - ISO Parallel x NPT

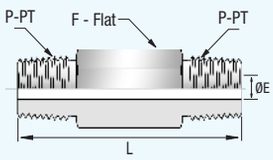




Part No	Pipe Size		Dimensions		
	P-PT, BSPP	P1-PT, NPT	L	F	E
PHRN-2G-4N-SS	1/8	1/4	28.9	14.0	3.5
PHRN-4G-2N-SS	1/4	1/8	28.9	19.0	3.5
PHRN-4G-6N-SS	1/4	3/8	33.4	19.0	4.7
PHRN-6G-4N-SS	3/8	1/4	35.1	22.0	4.7
PHRN-6G-8N-SS	3/8	1/2	39.9	22.0	7.9
PHRN-8G-6N-SS	1/2	3/8	38.6	27.0	7.9
PHRN-10G-8N-SS	5/8	1/2	45.9	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

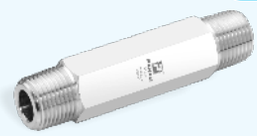
Hex Long Nipples - NPT

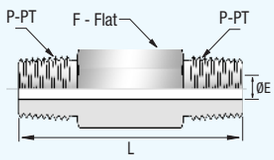




Part No	Pipe Size	Dimensions		
	P-PT, NPT	L	F	E
PHLN-2N-SS-L1.5	1/8	38.1	11.1	4.8
PHLN-2N-SS-L2.0	1/8	50.8	11.1	4.8
PHLN-2N-SS-L2.5	1/8	63.5	11.1	4.8
PHLN-2N-SS-L3.0	1/8	76.2	11.1	4.8
PHLN-4N-SS-L1.5	1/4	38.1	14.3	7.1
PHLN-4N-SS-L2.0	1/4	50.8	14.3	7.1
PHLN-4N-SS-L2.5	1/4	63.5	14.3	7.1
PHLN-4N-SS-L3.0	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

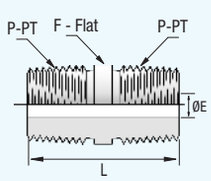
Hex Long Nipples - ISO Tapered





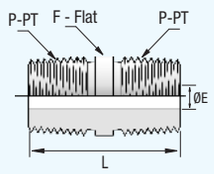
Part No	Pipe Size	Dimensions		
	P-PT, BSPT	L	F	E
PHLN-2R-SS-L1.5	1/8	38.1	11.1	4.8
PHLN-2R-SS-L2.0	1/8	50.8	11.1	4.8
PHLN-2R-SS-L2.5	1/8	63.5	11.1	4.8
PHLN-2R-SS-L3.0	1/8	76.2	11.1	4.8
PHLN-4R-SS-L1.5	1/4	38.1	14.3	7.1
PHLN-4R-SS-L2.0	1/4	50.8	14.3	7.1
PHLN-4R-SS-L2.5	1/4	63.5	14.3	7.1
PHLN-4R-SS-L3.0	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



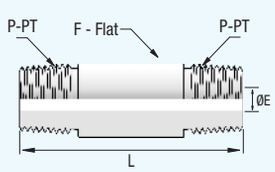
Part No	Pipe Size	Dimensions		
	P-PT, NPT	L	F	E
PCN-1N-SS	1/16	19.1	7.9	3.0
PCN-2N-SS	1/8	19.1	10.3	4.8
PCN-4N-SS	1/4	28.4	13.7	7.1
PCN-6N-SS	3/8	28.4	17.1	9.6
PCN-8N-SS	1/2	38.1	21.3	11.9
PCN-12N-SS	3/4	38.1	26.7	15.7
PCN-16N-SS	1	47.8	33.4	22.4

Close Nipples - ISO Tapered



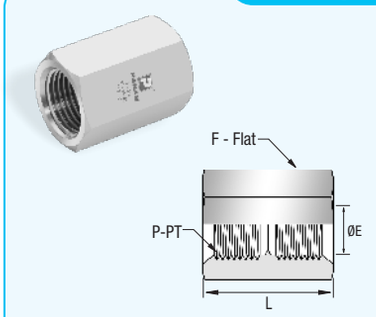
Part No	Pipe Size	Dimensions		
	P-PT, BSPT	L	F	E
PCN-1R-SS	1/16	19.1	7.9	3.0
PCN-2R-SS	1/8	19.1	10.3	4.8
PCN-4R-SS	1/4	28.4	13.7	7.1
PCN-6R-SS	3/8	28.4	17.1	9.7
PCN-8R-SS	1/2	38.1	21.3	11.9
PCN-12R-SS	3/4	38.1	26.7	15.7
PCN-16R-SS	1	47.8	33.4	22.4

Long Pipe Nipples - NPT



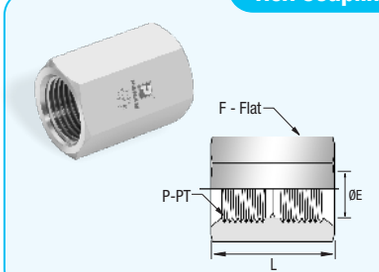
Part No	Pipe Size	Dimensions		
	P-PT, NPT	L	F	E
PLPN-2N-SS-L1.5	1/8	38.1	10.3	4.8
PLPN-2N-SS-L2.0	1/8	50.8	10.3	4.8
PLPN-2N-SS-L2.5	1/8	63.5	10.3	4.8
PLPN-2N-SS-L3.0	1/8	76.2	10.3	4.8
PLPN-4N-SS-L1.5	1/4	38.1	13.7	7.1
PLPN-4N-SS-L2.0	1/4	50.8	13.7	7.1
PLPN-4N-SS-L2.5	1/4	63.5	13.7	7.1
PLPN-4N-SS-L3.0	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

Hex Couplings - NPT



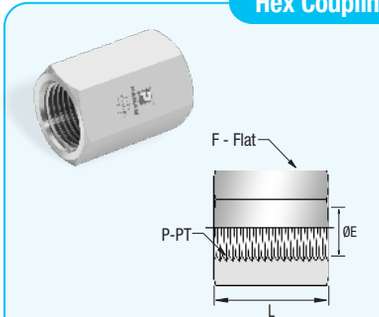
Part No	Pipe Size	Dimensions		
	P-PT, NPT	L	F	E
PHC-1N-SS	1/16	19.8	11.1	4.8
PHC-2N-SS	1/8	20.6	14.3	8.6
PHC-4N-SS	1/4	30.2	19.1	11.4
PHC-6N-SS	3/8	33.3	22.2	15.0
PHC-8N-SS	1/2	39.6	27.0	18.5
PHC-12N-SS	3/4	41.1	33.3	23.9
PHC-16N-SS	1	50.8	41.3	29.7

Hex Couplings - ISO Tapered



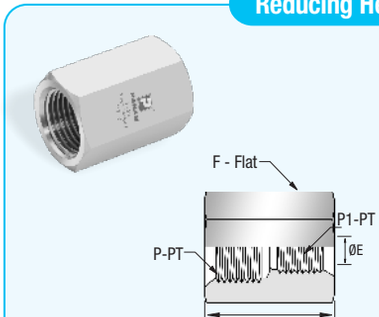
Part No	Pipe Size	Dimensions		
	P-PT, BSPT	L	F	E
PHC-2R-SS	1/8	20.6	14.3	8.4
PHC-4R-SS	1/4	30.2	19.1	11.2
PHC-6R-SS	3/8	33.3	22.2	14.7
PHC-8R-SS	1/2	39.6	27.0	18.3

Hex Couplings - ISO Parallel



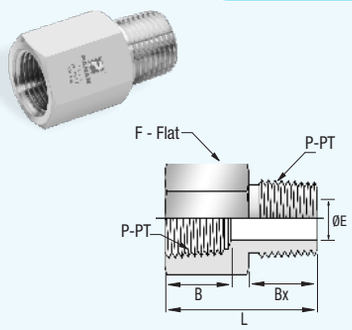
Part No	Pipe Size	Dimensions		
	P-PT, BSPP	L	F	E
PHC-1G-SS	1/16	19.8	11.1	4.8
PHC-2G-SS	1/8	20.6	14.3	8.6
PHC-4G-SS	1/4	30.2	19.1	11.4
PHC-6G-SS	3/8	33.3	22.2	15.0
PHC-8G-SS	1/2	39.6	27.0	18.5
PHC-12G-SS	3/4	41.1	33.3	23.9
PHC-16G-SS	1	50.8	41.3	29.7

Reducing Hex Couplings - NPT



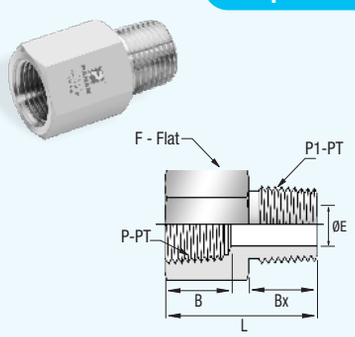
Part No	Pipe Size		Dimensions		
	P-PT, NPT	P1-PT, NPT	L	F	E
PRHC-4N-2N-SS	1/4	1/8	31.0	19.1	8.6
PRHC-6N-4N-SS	3/8	1/4	35.1	22.2	11.4
PRHC-8N-2N-SS	1/2	1/8	39.6	27.0	8.6
PRHC-8N-4N-SS	1/2	1/4	44.4	27.0	11.4
PRHC-8N-6N-SS	1/2	3/8	45.2	27.0	15.0
PRHC-12N-4N-SS	3/4	1/4	46.0	33.3	11.4
PRHC-12N-8N-SS	3/4	1/2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

Adapters - NPT



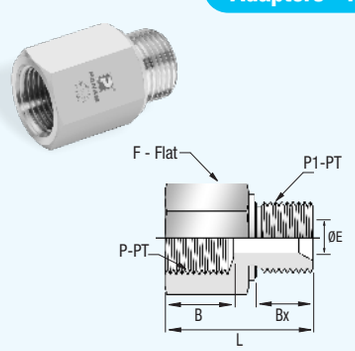
Part No	Pipe Size	Dimensions				
	P-PT, NPT	L	F	B	Bx	E
PA-2N-SS	1/8	27.9	14.3	10.4	9.7	4.8
PA-4N-SS	1/4	35.6	19.1	15.0	14.2	7.1
PA-6N-SS	3/8	38.4	22.2	15.0	14.2	9.6
PA-8N-SS	1/2	49.3	27.0	19.8	19.1	11.9
PA-12N-SS	3/4	51.3	33.3	20.6	19.1	15.7
PA-16N-SS	1	57.9	41.3	25.4	23.9	22.4

Adapters - NPT x ISO Tapered



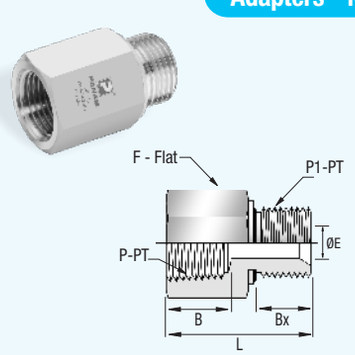
Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, BSPT	L	F	B	Bx	E
PA-2N-2R-SS	1/8	1/8	27.7	14.3	10.4	9.7	4.8
PA-4N-4R-SS	1/4	1/4	36.1	19.1	15.0	14.2	7.1
PA-6N-6R-SS	3/8	3/8	38.1	22.2	15.0	14.2	9.6
PA-8N-8R-SS	1/2	1/2	49.3	27.0	19.8	19.1	11.9
PA-12N-12R-SS	3/4	3/4	51.3	33.3	20.6	19.1	15.7
PA-16N-16R-SS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

Adapters - ISO Parallel



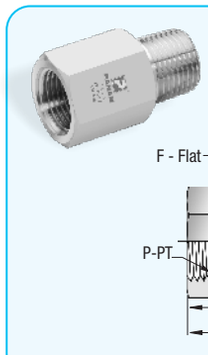
Part No	Pipe Size		Dimensions				
	P-PT, BSPP	P1-PT, BSPP	L	F	B	Bx	E
PA-2G-SS	1/8	1/8	27.1	14.0	10.4	7.1	3.5
PA-4G-SS	1/4	1/4	37.1	22.0	15.0	11.2	4.7
PA-6G-SS	3/8	3/8	36.9	23.0	15.0	11.2	7.9
PA-8G-SS	1/2	1/2	45.3	30.0	19.8	14.2	7.9
PA-12G-SS	3/4	3/4	47.3	32.0	20.6	15.7	11.1
PA-16G-SS	1	1	52.2	41.0	25.4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

Adapters - NPT x ISO Parallel



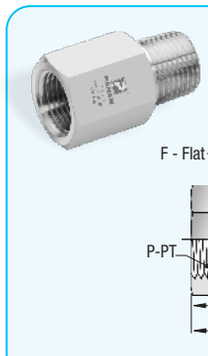
Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, BSPP	L	F	B	Bx	E
PA-2N-2G-SS	1/8	1/8	25.1	14.3	9.9	7.1	4.1
PA-4N-4G-SS	1/4	1/4	33.5	19.1	10.4	11.2	5.8
PA-6N-6G-SS	3/8	3/8	35.8	22.2	15.0	11.2	7.9
PA-8N-8G-SS	1/2	1/2	44.2	27.0	15.0	14.2	11.9
PA-12N-12G-SS	3/4	3/4	48.0	33.3	20.6	15.7	15.7
PA-16N-16G-SS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

Adapters - ISO Tapered



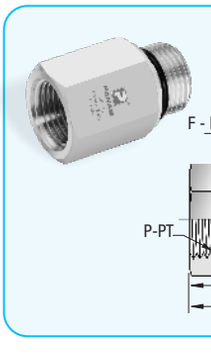
Part No	Pipe Size	Dimensions				
	P-PT, BSPT	L	F	B	Bx	E
PA-2R-SS	1/8	27.7	14.3	10.4	9.7	4.8
PA-4R-SS	1/4	36.1	19.1	15.0	14.2	7.1
PA-6R-SS	3/8	38.1	22.2	15.0	14.2	9.7
PA-8R-SS	1/2	49.5	27.0	19.8	19.1	11.9
PA-12R-SS	3/4	51.3	33.3	20.6	19.1	15.7
PA-16R-SS	1	58.4	41.3	25.4	23.9	22.4

Adapters - ISO Tapered x NPT



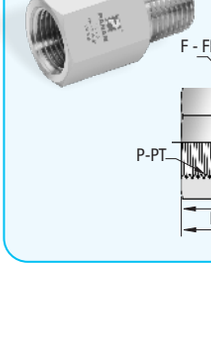
Part No	Pipe Size		Dimensions				
	P-PT, BSPT	P1-PT, NPT	L	F	B	Bx	E
PA-2R-2N-SS	1/8	1/8	27.7	14.3	10.4	9.7	4.8
PA-4R-4N-SS	1/4	1/4	36.3	19.1	15.0	14.2	7.1
PA-6R-6N-SS	3/8	3/8	38.4	22.2	15.0	14.2	9.6
PA-8R-8N-SS	1/2	1/2	49.8	27.0	19.8	19.1	11.9
PA-12R-12N-SS	3/4	3/4	51.3	33.3	20.6	19.1	15.7
PA-16R-16N-SS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

Adapters - NPT x SAE / MS Straight



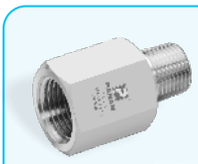
Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, SAE	L	F	B	Bx	E
PA-4N-7S-SS	1/4	7/16-20	33.5	19.1	15.0	9.1	5.1
PA-6N-9S-SS	3/8	9/16-18	35.3	23.8	15.0	9.9	7.1
PA-8N-12S-SS	1/2	3/4-16	44.7	27.0	19.8	11.2	10.7
PA-12N-17S-SS	3/4	1 1/16-12	50.5	34.9	20.6	15.0	16.8
PA-16N-21S-SS	1	1 5/16-12	53.8	41.3	25.4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

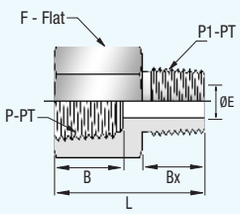
Adapters - ISO Parallel x NPT



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

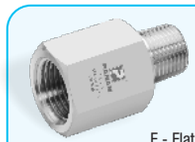
Reducing Adapters - NPT

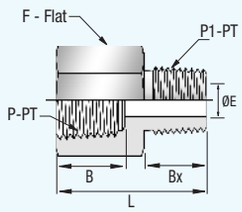




Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, NPT	L	F	B	Bx	E
PRA-2N-1N-SS	1/8	1/16	27.7	14.3	10.4	9.7	3.0
PRA-4N-1N-SS	1/4	1/16	30.5	19.1	15.0	9.7	3.0
PRA-4N-2N-SS	1/4	1/8	32.0	19.1	15.0	9.7	4.8
PRA-6N-1N-SS	3/8	1/16	31.8	22.2	15.0	9.7	3.0
PRA-6N-2N-SS	3/8	1/8	33.8	22.2	15.0	9.7	4.8
PRA-6N-4N-SS	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
PRA12N-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

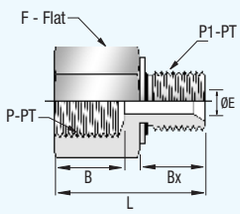
Reducing Adapters - ISO Tapered





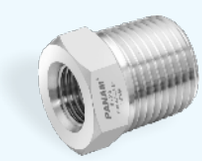
Part No	Pipe Size		Dimensions				
	P-PT, BSPT	P1-PT, BSPT	L	F	B	Bx	E
PRA-4R-2R-SS	1/4	1/8	32.0	19.1	15.0	9.7	4.8
PRA-6R-4R-SS	3/8	1/4	38.1	22.2	15.0	14.2	7.1
PRA-8R-4R-SS	1/2	1/4	44.7	27.0	19.8	14.2	7.1
PRA-8R-6R-SS	1/2	3/8	44.4	27.0	19.8	14.2	9.7

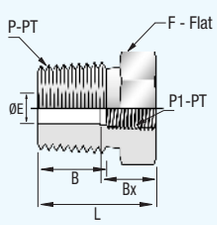
Reducing Adapters - ISO Parallel



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

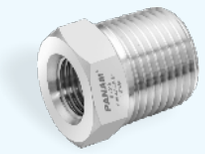
Reducing Bushings - NPT

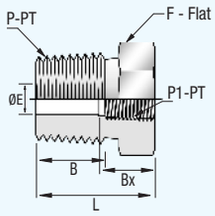




Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, NPT	L	F	B	Bx	E
PRB-2N-1N-SS	1/8	1/16	26.2	11.1	9.7	9.9	4.8
PRB-4N-1N-SS	1/4	1/16	21.8	14.3	14.2	9.9	4.8
PRB-4N-2N-SS	1/4	1/8	26.9	14.3	14.2	10.4	7.1
PRB-6N-1N-SS	3/8	1/16	21.8	17.5	14.2	9.9	4.8
PRB-6N-2N-SS	3/8	1/8	21.8	17.5	14.2	10.4	7.1
PRB-6N-4N-SS	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

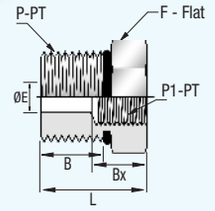
Reducing Bushings - NPT x ISO Tapered





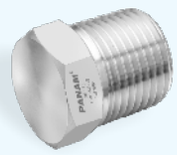
Part No	Pipe Size		Dimensions				
	P-PT, NPT	P1-PT, BSPT	L	F	B	Bx	E
PRB-2N-1R-SS	1/8	1/16	26.2	11.1	9.7	9.9	4.8
PRB-4N-1R-SS	1/4	1/16	21.8	14.3	14.2	9.9	4.8
PRB-4N-2R-SS	1/4	1/8	26.9	14.3	14.2	10.4	7.1
PRB-6N-1R-SS	3/8	1/16	21.8	17.5	14.2	9.9	4.8
PRB-6N-2R-SS	3/8	1/8	21.8	17.5	14.2	10.4	7.1
PRB-6N-4R-SS	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

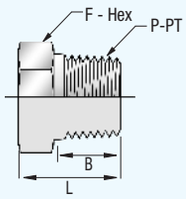
Reducing Bushing - SAE / MS Straight



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

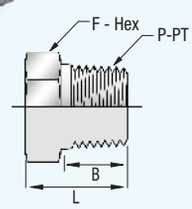
Hex Plugs - NPT





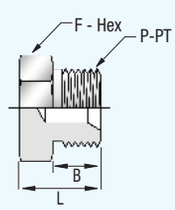
Part No	Pipe Size	Dimensions		
	P-PT, NPT	L	F	B
PHP-1N-SS	1/16	14.2	7.9	9.7
PHP-2N-SS	1/8	14.2	11.1	9.7
PHP-4N-SS	1/4	19.1	14.3	14.2
PHP-6N-SS	3/8	19.8	17.5	14.2
PHP-8N-SS	1/2	24.6	22.2	19.1
PHP-12N-SS	3/4	30.7	27.0	19.1
PHP-16N-SS	1	38.1	34.9	23.9
PHP-20N-SS	1 1/4	38.4	44.5	23.9
PHP-24N-SS	1 1/2	43.7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

Hex Plugs - ISO Tapered



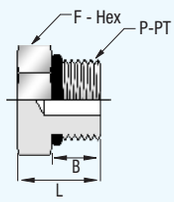
Part No	Pipe Size	Dimensions		
	P-PT, BSPT	L	F	B
PHP-1R-SS	1/16	14.2	7.9	9.7
PHP-2R-SS	1/8	14.2	11.1	9.7
PHP-4R-SS	1/4	19.1	14.3	14.2
PHP-6R-SS	3/8	19.8	17.5	14.2
PHP-8R-SS	1/2	24.6	22.2	19.1
PHP-12R-SS	3/4	30.7	27.0	19.1
PHP-16R-SS	1	38.1	34.9	23.9
PHP-20R-SS	1 1/4	38.4	44.5	23.9
PHP-24R-SS	1 1/2	43.7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

Hex Plugs - ISO Parallel



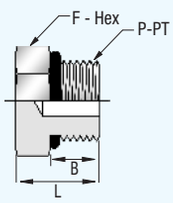
Part No	Pipe Size	Dimensions		
	P-PT, BSPP	L	F	B
PHP-2G-SS	1/8	14.3	14.0	8.0
PHP-4G-SS	1/4	18.8	19.0	11.0
PHP-6G-SS	3/8	20.5	22.0	12.0
PHP-8G-SS	1/2	24.0	27.0	14.0
PHP-12G-SS	5/8	24.0	30.0	16.0
PHP-16G-SS	3/4	26.5	32.0	16.0
PHP-16G-SS	1	30.2	41.0	19.0
PHP-16G-SS	1 1/4	38.7	50.0	20.0
PHP-16G-SS	1 1/2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

Hex Plugs - SAE / MS Straight



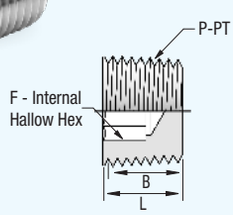
Part No	Pipe Size	Dimensions		
	P-PT, SAE	L	F	B
PHP-7S-SS	7/16-20	19.3	14.3	9.1
PHP-9S-SS	9/16-18	20.8	17.5	9.9
PHP-12S-SS	3/4-16	22.6	22.2	11.2
PHP-17S-SS	1 1/16-12	28.4	31.8	15.0
PHP-21S-SS	1 5/16-12	30.0	38.1	15.0

Hex Plugs - Metric



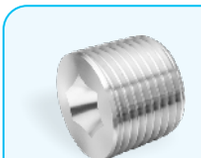
Part No	Pipe Size	Dimensions		
	P-PT, Metric	L	F	B
PHP-14M-SS	M14 x 1.5	21.0	20.6	12.0
PHP-16M-SS	M16 X1.5	23.0	22.2	12.0
PHP-18M-SS	M18 X 1.5	25.0	23.8	12.0
PHP-20M-SS	M20 X 1.5	26.5	25.4	14.0
PHP-22M-SS	M22 X 1.5	28.8	28.6	14.0
PHP-24M-SS	M24 X 1.5	29.0	35.0	14.0
PHP-27M-SS	M27 X 2	30.0	36.5	16.0

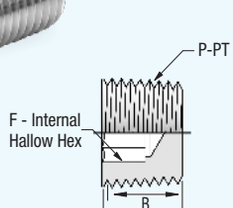
Hollow Hex Plugs - NPT



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

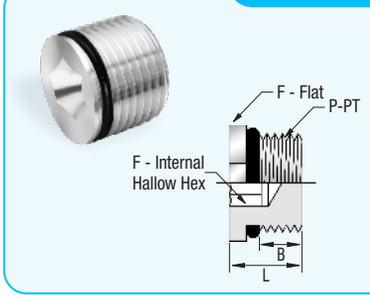
Hollow Hex Plugs - ISO Tapered





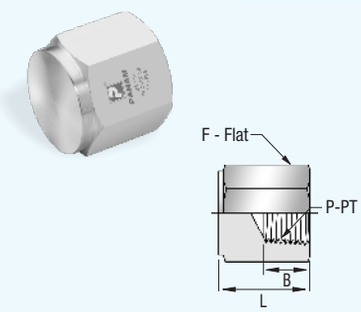
Part No	Pipe Size	Dimensions		
	P-PT, BSPT	L	F	B
PHHP-1R-SS	1/16	7.6	4.0	7.4
PHHP-2R-SS	1/8	10.4	4.8	7.4
PHHP-4R-SS	1/4	15.5	6.4	12.4
PHHP-6R-SS	3/8	15.5	7.9	12.4
PHHP-8R-SS	1/2	19.3	9.5	16.2
PHHP-12R-SS	3/4	19.8	14.3	16.7
PHHP-16R-SS	1	20.8	15.9	17.7

Hollow Hex Plugs - SAE / MS Straight



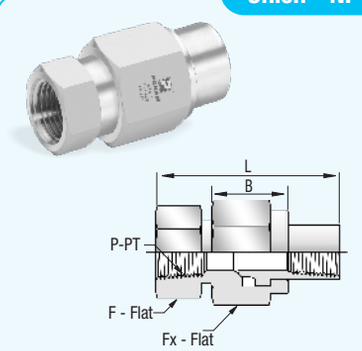
Part No	Pipe Size	Dimensions		
	P-PT, SAE	L	F	B
PHHP-7S-SS	7/16-20	11.4	14.2	9.1
PHHP-9S-SS	9/16-18	12.2	17.5	9.9
PHHP-12S-SS	3/4-16	14.2	22.4	11.2
PHHP-17S-SS	1 1/16-12	19.1	31.8	15.0
PHHP-21S-SS	1 5/16-12	19.1	38.1	15.0

Pipe Caps - NPT



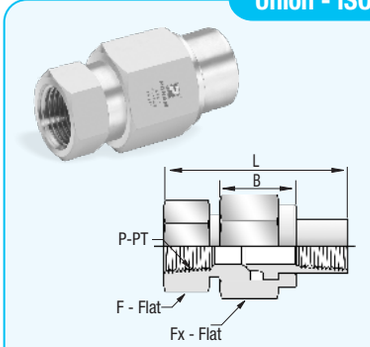
Part No	Pipe Size	Dimensions		
	P-PT, NPT	L	F	B
PPC-1N-SS	1/16	12.7	11.1	9.9
PPC-2N-SS	1/8	19.1	14.3	10.4
PPC-4N-SS	1/4	23.1	19.1	15.0
PPC-6N-SS	3/8	26.2	22.2	15.0
PPC-8N-SS	1/2	34.0	27.0	19.8
PPC-12N-SS	3/4	36.6	33.3	20.6
PPC-16N-SS	1	41.1	41.3	25.4

Union - NPT



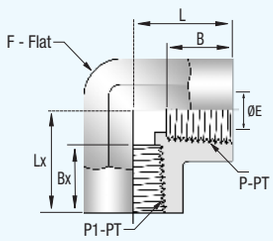
Part No	Pipe Size	Dimensions				
	P-PT, NPT	L	F	Fx	B	E
PU-2N-SS	1/8	46.0	23.8	28.6	10.4	6.8
PU-4N-SS	1/4	59.4	30.2	34.9	15.0	9.1
PU-6N-SS	3/8	63.5	33.3	38.1	15.0	13.2
PU-8N-SS	1/2	68.3	41.3	44.5	19.8	15.7
PU-12N-SS	3/4	79.2	47.6	54.0	20.6	22.4
PU-16N-SS	1	90.4	60.3	63.5	25.4	26.2

Union - ISO Tapered



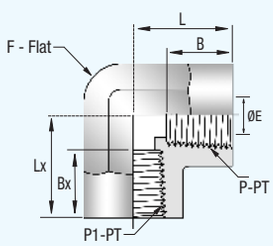
Part No	Pipe Size	Dimensions				
	P-PT, BSPT	L	F	Fx	B	E
PU-2R-SS	1/8	46.0	23.8	28.6	10.4	6.8
PU-4R-SS	1/4	59.4	30.2	34.9	15.0	9.1
PU-6N-SS	3/8	63.5	33.3	38.1	15.0	13.2
PU-8R-SS	1/2	68.3	41.3	44.5	19.8	15.7
PU-12R-SS	3/4	79.2	47.6	54.0	20.6	22.4
PU-16R-SS	1	90.4	60.3	63.5	25.4	26.2

Female Elbow - NPT



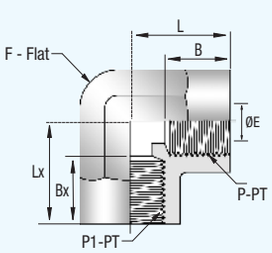
Part No	Pipe Size		Dimensions					
	P-PT, NPT	P1-PT, NPT	L	F	B	E	Lx	Bx
PFE-1N-SS	1/16	1/16	21.8	11.1	9.9	4.8	21.8	9.9
PFE-2N-1N-SS	1/8	1/16	26.4	12.7	10.4	4.8	26.4	9.9
PFE-2N-SS	1/8	1/8	26.4	12.7	10.4	7.1	26.4	10.4
PFE-4N-2N-SS	1/4	1/8	29.7	17.5	15.0	7.1	29.7	10.4
PFE-4N-SS	1/4	1/4	29.7	17.5	15.0	10.4	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



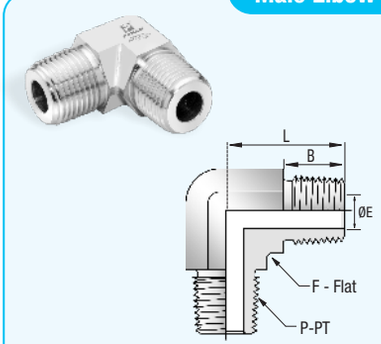
Part No	Pipe Size		Dimensions					
	P-PT, BSPT	P1-PT, BSPT	L	F	B	E	Lx	Bx
PFE-1R-SS	1/16	1/16	21.8	11.1	9.9	4.8	21.8	9.9
PFE-2R-1R-SS	1/8	1/16	26.4	12.7	10.4	4.8	26.4	9.9
PFE-2R-SS	1/8	1/8	26.4	12.7	10.4	7.1	26.4	10.4
PFE-4R-2R-SS	1/4	1/8	29.7	17.5	15.0	7.1	29.7	10.4
PFE-4R-SS	1/4	1/4	29.7	17.5	15.0	10.4	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



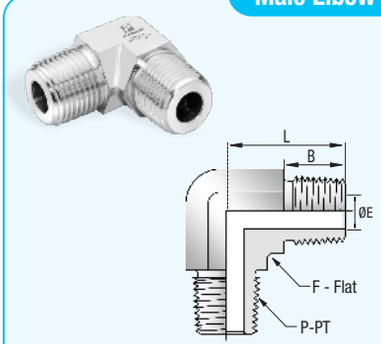
Part No	Pipe Size		Dimensions					
	P-PT, BSPP	P1-PT, BSPP	L	F	B	E	Lx	Bx
PFE-1G-SS	1/16	1/16	21.8	11.1	9.9	4.8	21.8	9.9
PFE-2G-1G-SS	1/8	1/16	26.4	12.7	10.4	4.8	26.4	9.9
PFE-2G-SS	1/8	1/8	26.4	12.7	10.4	7.1	26.4	10.4
PFE-4G-2G-SS	1/4	1/8	29.7	17.5	15.0	7.1	29.7	10.4
PFE-4G-SS	1/4	1/4	29.7	17.5	15.0	10.4	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

Male Elbow - NPT



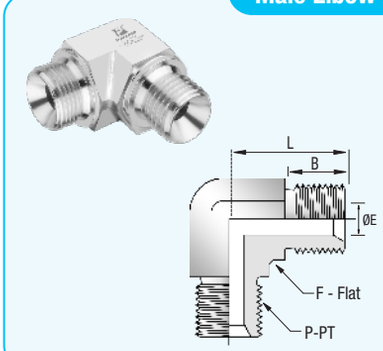
Part No	Pipe Size	Dimensions			
	P-PT, NPT	L	F	B	E
PME-1N-SS	1/16	18.3	9.5	9.7	3.0
PME-2N-SS	1/8	22.4	11.1	9.7	4.8
PME-4N-SS	1/4	26.7	12.7	14.2	7.1
PME-6N-SS	3/8	29.7	17.5	14.2	9.6
PME-8N-SS	1/2	36.8	20.6	19.1	11.9
PME-12N-SS	3/4	40.4	27.0	19.1	15.7
PME-16N-SS	1	50.0	34.9	23.9	22.4

Male Elbow - ISO Tapered



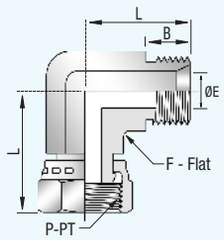
Part No	Pipe Size	Dimensions			
	P-PT, BSPT	L	F	B	E
PME-1R-SS	1/16	18.3	9.5	9.7	3.0
PME-2R-SS	1/8	22.4	11.1	9.7	4.8
PME-4R-SS	1/4	26.7	12.7	14.2	7.1
PME-6R-SS	3/8	29.7	17.5	14.2	9.6
PME-8R-SS	1/2	36.8	20.6	19.1	11.9
PME-12R-SS	3/4	40.4	27.0	19.1	15.7
PME-16R-SS	1	50.0	34.9	23.9	22.4

Male Elbow - ISO Parallel



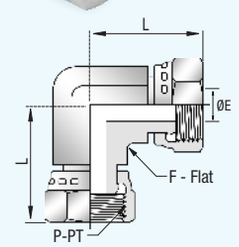
Part No	Pipe Size	Dimensions			
	P-PT, BSPP	L	F	B	E
PME-2G-SS	1/8	16.6	11.0	8.0	3.5
PME-4G-SS	1/4	27.8	14.0	11.0	4.7
PME-6G-SS	3/8	31.7	19.0	12.0	7.9
PME-8G-SS	1/2	37.0	22.0	14.0	11.1
PME-10G-SS	5/8	39.0	22.0	16.0	14.3
PME-12G-SS	3/4	41.6	27.0	16.0	16.7
PME-16G-SS	1	49.7	23.0	19.0	22.2

Swivel Male Elbow



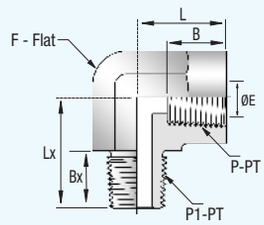
Part No	Pipe Size	Dimensions				
	P-PT, BSPP	L	L1	F	B	E
PME-2G-SWL-SS	1/8	16.6	22.0	11.0	8.0	3.5
PME-4G-SWL-SS	1/4	27.8	31.2	19.0	11.0	4.7
PME-6G-SWL-SS	3/8	31.7	36.2	22.0	12.0	7.9
PME-8G-SWL-SS	1/2	37.0	41.0	27.0	14.0	11.1
PME-10G-SWL-SS	5/8	39.0	41.6	27.0	16.0	14.3
PME-12G-SWL-SS	3/4	41.6	45.3	33.0	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



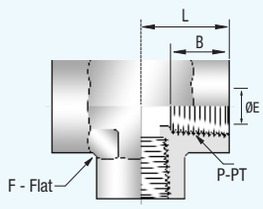
Part No	Pipe Size	Dimensions		
	P-PT, BSPP	F	L	E
PUE-4G-SWL-SS	1/4	14.0	30.5	4.7
PUE-6G-SWL-SS	3/8	19.0	33.0	7.9
PUE-8G-SWL-SS	1/2	22.0	38.8	11.1
PUE-10G-SWL-SS	5/8	22.0	39.4	14.3
PUE-12G-SWL-SS	3/4	27.0	42.3	16.7
PUE-16G-SWL-SS	1	33.0	49.0	22.2
PUE-20G-SWL-SS	1 1/4	41.0	58.2	28.6
PUE-24G-SWL-SS	1 1/2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

Street Elbow - NPT



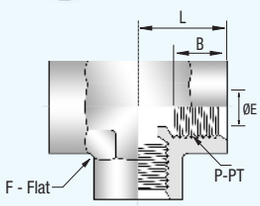
Part No	Pipe Size		Dimensions					
	P-PT, NPT	P1-PT, NPT	L	F	B	E	Lx	Bx
PSE-1N-SS	1/16	1/16	21.8	11.1	9.9	3.0	22.4	9.7
PSE-1N-2N-SS	1/16	1/8	21.8	11.1	9.9	4.8	22.4	9.7
PSE-1N-4N-SS	1/16	1/4	22.4	14.3	9.9	4.8	27.7	14.2
PSE-1N-6N-SS	1/16	3/8	22.4	17.5	9.9	4.8	29.7	14.2
PSE-2N-1N-SS	1/8	1/16	26.4	12.7	10.4	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

Female Tee - NPT



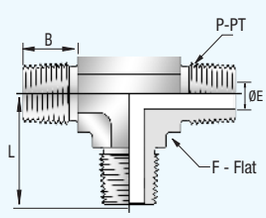
Part No	Pipe Size	Dimensions			
	P-PT, NPT	L	F	B	E
PFT-1N-SS	1/16	21.8	11.1	9.9	4.8
PFT-2N-SS	1/8	26.4	12.7	10.4	8.6
PFT-4N-SS	1/4	29.7	17.5	15.0	11.4
PFT-6N-SS	3/8	36.1	20.6	15.0	15.0
PFT-8N-SS	1/2	39.6	25.4	19.8	18.5
PFT-12N-SS	3/4	48.8	31.8	20.6	23.9
PFT-16N-SS	1	48.5	42.9	25.4	29.7
PFT-20N-SS	1 1/4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



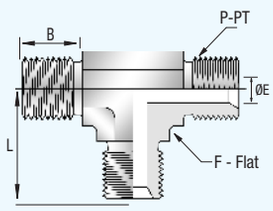
Part No	Pipe Size	Dimensions			
	P-PT, BSPP	L	F	B	E
PFT-1G-SS	1/16	21.8	11.1	9.9	4.8
PFT-2G-SS	1/8	26.4	12.7	10.4	8.6
PFT-4G-SS	1/4	29.7	17.5	15.0	11.4
PFT-6G-SS	3/8	36.1	20.6	15.0	15.0
PFT-8G-SS	1/2	39.6	25.4	19.8	18.5
PFT-12G-SS	3/4	48.8	31.8	20.6	23.9
PFT-16G-SS	1	48.5	42.9	25.4	29.7
PFT-20G-SS	1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



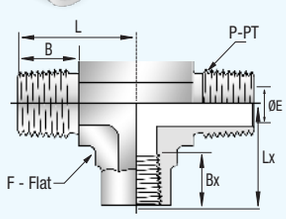
Part No	Pipe Size	Dimensions			
	P-PT, NPT	L	F	B	E
PMT-1N-SS	1/16	18.3	9.5	9.7	3.0
PMT-2N-SS	1/8	22.4	11.1	9.7	4.8
PMT-4N-SS	1/4	26.7	12.7	14.2	7.1
PMT-6N-SS	3/8	29.7	17.5	14.2	9.6
PMT-8N-SS	1/2	36.8	20.6	19.1	11.9
PMT-12N-SS	3/4	42.4	27.0	19.1	15.7
PMT-16N-SS	1	49.3	34.9	23.9	22.4
PMT-20N-SS	1 1/4	56.4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

Male Tee - ISO Parallel



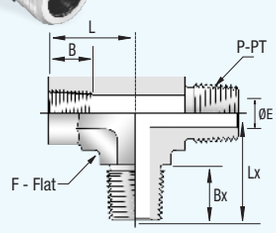
Part No	Pipe Size	Dimensions			
	P-PT, BSPP	L	F	B	E
PMT-2G-SS	1/8	16.6	11.0	8.0	3.5
PMT-4G-SS	1/4	27.8	19.0	11.0	4.7
PMT-6G-SS	3/8	31.7	22.0	12.0	7.9
PMT-8G-SS	1/2	37.0	27.0	14.0	11.1
PMT-10G-SS	5/8	39.0	27.0	16.0	14.3
PMT-12G-SS	3/4	41.9	33.0	16.0	16.7
PMT-16G-SS	1	49.7	41.0	19.0	22.2
PMT-20G-SS	1 1/4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



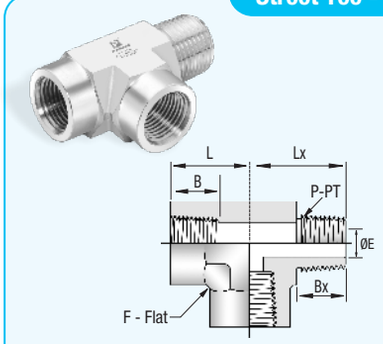
Part No	Pipe Size	Dimensions					
	P-PT, NPT	L	F	B	E	Lx	Bx
PFBT-1N-SS	1/16	18.3	11.1	9.7	3.0	21.8	9.9
PFBT-2N-SS	1/8	22.1	12.7	9.7	4.8	26.4	10.4
PFBT-4N-SS	1/4	29.7	17.5	14.2	7.1	29.7	15.0
PFBT-6N-SS	3/8	32.0	20.6	14.2	9.6	36.1	15.0
PFBT-8N-SS	1/2	39.6	25.4	19.1	11.9	39.6	19.8
PFBT-12N-SS	3/4	42.4	31.8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



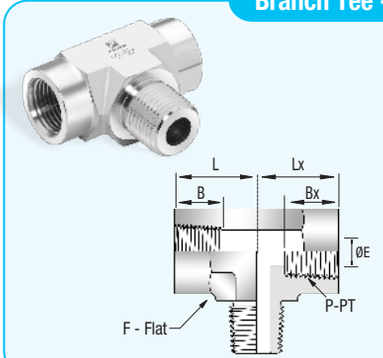
Part No	Pipe Size	Dimensions					
	P-PT, NPT	L	F	B	E	Lx	Bx
PFRT-1N-SS	1/16	21.8	11.1	9.9	3.0	18.3	9.7
PFRT-2N-SS	1/8	26.4	12.7	10.4	4.8	22.1	9.7
PFRT-4N-SS	1/4	29.7	17.5	15.0	7.1	29.7	14.2
PFRT-6N-SS	3/8	36.1	20.6	15.0	9.6	32.0	14.2
PFRT-8N-SS	1/2	39.6	25.4	19.8	11.9	39.6	19.1
PFRT-12N-SS	3/4	48.8	31.8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

Street Tee - NPT



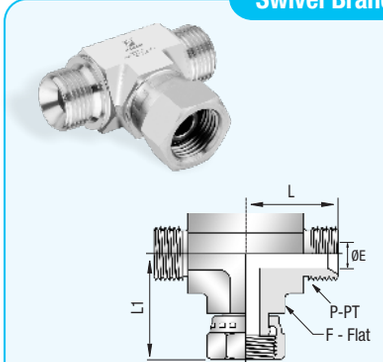
Part No	Pipe Size	Dimensions					
	P-PT, NPT	L	F	B	E	Lx	Bx
PST-1N-SS	1/16	21.8	11.1	9.9	3.0	18.3	9.7
PST-2N-SS	1/8	26.4	12.7	10.4	4.8	22.1	9.7
PST-4N-SS	1/4	29.7	17.5	15.0	7.1	29.7	14.2
PST-6N-SS	3/8	36.1	20.6	15.0	9.6	32.0	14.2
PST-8N-SS	1/2	39.6	25.4	19.8	11.9	39.6	19.1
PST-12N-SS	3/4	48.8	31.8	20.6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

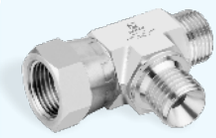
Swivel Branch Tee

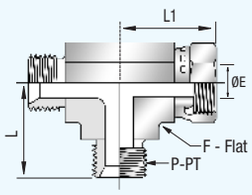


Part No	Pipe Size	Dimensions			
	P-PT, BSPP	L	L1	F	E
PBT-2G-SWL-SS	1/8	16.6	22.0	11.0	3.5
PBT-4G-SWL-SS	1/4	27.8	31.2	19.0	4.7
PBT-6G-SWL-SS	3/8	31.7	36.2	27.0	7.9
PBT-8G-SWL-SS	1/2	37.0	41.0	27.0	11.1
PBT-10G-SWL-SS	5/8	39.0	41.6	27.0	14.3
PBT-12G-SWL-SS	3/4	41.6	45.3	33.0	16.7
PBT-16G-SWL-SS	1	49.7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

Instrumentation Pipe Fittings

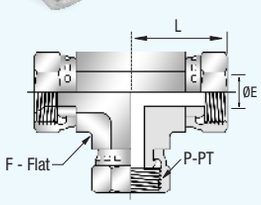
Swivel Run Tee





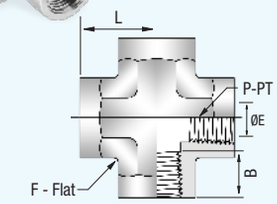
Part No	Pipe Size	Dimensions			
	P-PT, BSPP	L	L1	F	E
PRT-2G-SWL-SS	1/8	16.6	22.0	11.0	3.5
PRT-4G-SWL-SS	1/4	27.8	31.2	19.0	4.7
PRT-6G-SWL-SS	3/8	31.7	36.2	27.0	7.9
PRT-8G-SWL-SS	1/2	37.0	41.0	27.0	11.1
PRT-10G-SWL-SS	5/8	39.0	41.6	27.0	14.3
PRT-12G-SWL-SS	3/4	41.6	45.3	33.0	16.7
PRT-16G-SWL-SS	1	49.7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

Swivel Union Tee



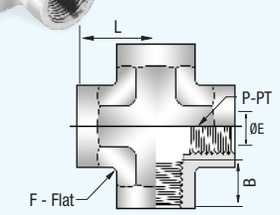
Part No	Pipe Size	Dimensions		
	P-PT, BSPP	L	F	E
PUT-4G-SWL-SS	1/4	30.5	14.0	4.7
PUT-6G-SWL-SS	3/8	33.0	19.0	7.9
PUT-8G-SWL-SS	1/2	38.8	22.0	11.0
PUT-10G-SWL-SS	5/8	39.4	22.0	14.3
PUT-12G-SWL-SS	3/4	42.3	27.0	16.7
PUT-16G-SWL-SS	1	49.0	33.0	22.2
PUT-20G-SWL-SS	1 1/4	58.2	41.0	28.6

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

Other Products

2-3-5 VALVE MANIFOLDS

BELLOW SEAL VALVES

GAUGE ROOT VALVES

NEEDLE VALVES

HP NEEDLE VALVES

BALL VALVES

HP BALL VALVES

DOUBLE BLOCK & BLEED VALVES

MONO FLANGE VALVES

CHECK VALVES

RELIEF VALVES

FILTERS

TUBE FITTINGS

PIPE FITTINGS

HP PIPE FITTINGS

SWIVEL FITTINGS

JIC FITTINGS

WELD FITTINGS

HIGH PRESSURE FITTINGS

GAUGE SAVERS

PRESSURE GAUGES

TEMPERATURE GAUGES

PRESSURE TRANSMITTERS

TEMPERATURE TRANSMITTERS

PRESSURE REGULATORS

CONDENSATE POTS

AIR HEADERS

GRAB SAMPLING SYSTEM

PRE-FABRICATED HOOK UPS

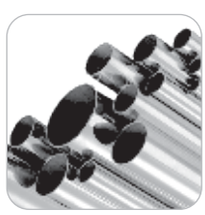
FLANGE ADAPTERS

SWIVEL GAUGE ADAPTERS

THERMOWELLS

BLEED PLUGS

DIE-ELECTRIC FITTINGS


TUBING

PANAM ENGINEERS LTD.

501, Jaisingh Business Center, Parsiwada, Sahar Road, Andheri (East),
Mumbai - 400 099. BHARAT • Tel.: +91 22 4146 9000 / 4146 9001 / 4146 9002 / 4146 9003 / 4146 9004.
Email: sales@panam.in / sales@panamengineers.com
Website: www.panam.in / www.panamengineers.com