

Инструментальные трубные фитинги

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
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Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
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Иркутск (395)279-98-46
Россия (495)268-04-70

Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
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Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Киргизия (996)312-96-26-47

Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Казахстан (7172)727-132

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Features

- ❖ Available in sizes from 1/16 to 2 in. and 6 mm to 30 mm
- ❖ Hikelok pipe Fittings materials include stainless steel, alloy 400/R-405, brass, and carbon steel
- ❖ Hikelok provide NPT, ISO/BSP, SAE and ISO threads configurations
- ❖ Burrfree smooth thread provide optimum sealing and minimize galling

Materials Standards

Material	Bar Stock	Forgings
316 stainless steel	ASTM A276 ASME SA479, EN 1.4401	ASTM A182 ASME SA182, EN 1.4401
Alloy 20	ASTM B473	ASTM B462
Alloy 400/R-405	ASTM B164, ASME SB164	ASTM B564, ASME SB564
Alloy 600	ASTM B166, ASME SB166	ASTM B564, ASME SB564
Alloy 625	ASTM B446	ASTM B564, ASME SB564
Alloy 825	ASTM B425	ASTM B564, ASME SB564
Alloy C-276	ASTM B574	ASTM B564
Aluminum	ASTM B211	ASTM B247
Brass	ASTM B16, ASTM	ASTM B283
Carbon steel	B453 ASTM A108	—

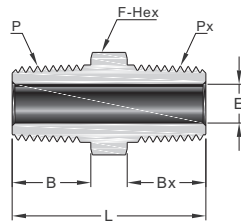
Thread Specifications

Thread Type(End Connection)	Reference Specification
NPT	ASME B1.20.1, SAE AS71051
ISO/BSP(parallel) (Based on DIN 3852) (Hikelok PPT,BP,and BS fittings)	ISO 228, JIS B0202
ISO/BSP(tapered) (Based on DIN 3852) (Hikelok BT fittings)	ISO 7, BS EN 10226-1, JIS B0203
ISO/BSP(gauge) (Based on EN 837-1 and 837-3) (Hikelok BG)	ISO 228
Unified (SAE) (Hikelok SA fittings)	ASME B1.1

Working Temperature Rating

Material	Working Temperature Rating °F (°C)
316 stainless steel	-65(-53) to 1000 (537)
Brass	-20(-28) to 400 (204)
Carbon steel	-65(-53) to 375 (190)
BS gaskets(FKM)	-5(-15) to 400 (204)
BG BP gaskets (copper)	-5(-15) to 400 (204)
SAE O-ring (FKM)	-5(-15) to 400 (204)

Hex Nipples



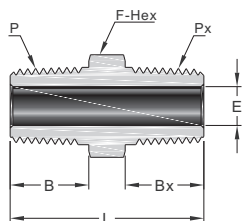
Male NPT Threads

P-NPT Size	Px-NPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)	
			L	F	B	Bx	E	316 SS, Steel	Brass
1/16	1/16	NPT1-THN-NPT1-	25.6	7.9	9.7	9.7	3.0	11000 (757)	5500 (378)
1/8	1/16	NPT2-THN-NPT1-	25.6	11.1	9.7	9.7	3.0	11000 (757)	5500 (378)
1/8	1/8	NPT2-THN-NPT2-	25.6	11.1	9.7	9.7	4.8	10000 (689)	5000 (344)
1/4	1/16	NPT4-THN-NPT1-	31.0	14.3	14.2	9.7	3.0	11000 (757)	5500 (378)
1/4	1/8	NPT4-THN-NPT2-	31.0	14.3	14.2	9.7	4.8	10000 (689)	5000 (344)
1/4	1/4	NPT4-THN-NPT4-	35.6	14.3	14.2	14.2	7.1	8000 (551)	4000 (275)
3/8	1/16	NPT6-THN-NPT1-	31.8	17.5	14.2	9.7	3.0	11000 (757)	5500 (378)
3/8	1/8	NPT6-THN-NPT2-	31.8	17.5	14.2	9.7	4.8	10000 (689)	5000 (344)
3/8	1/4	NPT6-THN-NPT4-	36.3	17.5	14.2	14.2	7.1	8000 (551)	4000 (275)
3/8	3/8	NPT6-THN-NPT6-	36.3	17.5	14.2	14.2	9.7	7800 (537)	3900 (268)
1/2	1/8	NPT8-THN-NPT2-	37.3	22.2	19.1	9.7	4.8	7700 (530)	3800 (261)
1/2	1/4	NPT8-THN-NPT4-	41.9	22.2	19.1	14.2	7.1	8000 (551)	4000 (275)
1/2	3/8	NPT8-THN-NPT6-	41.9	22.2	19.1	14.2	9.7	7800 (537)	3900 (268)
1/2	1/2	NPT8-THN-NPT8-	46.7	22.2	19.1	19.1	11.9	7700 (530)	3800 (261)
3/4	1/8	NPT12-THN-NPT2-	40.4	27.0	19.1	9.7	4.8	10000 (689)	5000 (344)
3/4	1/4	NPT12-THN-NPT4-	41.9	27.0	19.1	14.2	7.1	8000 (551)	4000 (275)
3/4	3/8	NPT12-THN-NPT6-	45.2	27.0	19.1	14.2	9.7	7800 (537)	3900 (268)
3/4	1/2	NPT12-THN-NPT8-	46.7	27.0	19.1	19.1	11.9	7700 (530)	3800 (261)
3/4	3/4	NPT12-THN-NPT12-	46.7	27.0	19.1	19.1	15.7	7300 (502)	3600 (248)
1	1/8	NPT16-THN-NPT2-	45.2	34.9	23.9	9.7	4.8	10000 (689)	5000 (344)
1	1/4	NPT16-THN-NPT4-	49.3	34.9	23.9	14.2	7.1	5300 (365)	2600 (179)
1	3/8	NPT16-THN-NPT6-	50.0	34.9	23.9	14.2	9.7	7800 (537)	3900 (268)
1	1/2	NPT16-THN-NPT8-	54.1	34.9	23.9	19.1	11.9	7700 (530)	3800 (261)
1	3/4	NPT16-THN-NPT12-	54.1	34.9	23.9	19.1	15.7	7300 (502)	3600 (248)
1	1	NPT16-THN-NPT16-	58.9	34.9	23.9	23.9	22.4	5300 (365)	2600 (179)
1 1/4	1	NPT20-THN-NPT16-	62.2	44.5	23.9	23.9	22.4	5300 (365)	2600 (179)
1 1/4	1 1/4	NPT20-THN-NPT20-	62.9	44.5	23.9	23.9	28.6	6000 (410)	3000 (200)
1 1/2	1 1/2	NPT24-THN-NPT24-	66.3	50.8	26.2	26.2	34.0	5000 (344)	2500 (172)
2	2	NPT32-THN-NPT32-	77.7	69.9	26.2	26.2	45.0	3900 (268)	1900 (130)
Heavy-Wall Male NPT Threads									
1/4	1/4	NPT4-THN1-NPT4-	35.6	14.3	14.2	14.2	5.8	10000 (689)	—
1/2	1/4	NPT8-THN1-NPT4-	41.9	22.2	19.1	14.2	5.8	10000 (689)	—
1/2	1/2	NPT8-THN1-NPT8-	46.7	22.2	19.1	19.1	9.9	10000 (689)	—

Male ISO Tapered Threads

P-BSPT Size	Px-BSPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)	
			L	F	B	Bx	E	316 SS, Steel	Brass
1/8	1/8	MBT2-THN-MBT2-	25.6	11.1	9.7	9.7	4.8	10000 (689)	5000 (344)
1/4	1/4	MBT4-THN-MBT4-	35.6	14.3	14.2	14.2	7.1	8000 (551)	4000 (275)
3/8	3/8	MBT6-THN-MBT6-	36.3	17.5	14.2	14.2	9.7	7800 (537)	3900 (268)
1/2	1/2	MBT8-THN-MBT8-	46.7	22.2	19.1	19.1	11.9	7700 (530)	3800 (261)
3/4	3/4	MBT12-THN-MBT12-	46.7	27.0	19.1	19.1	15.7	7300 (502)	3600 (248)
1	1	MBT16-THN-MBT16-	58.9	34.9	23.9	23.9	22.4	5300 (365)	2600 (179)

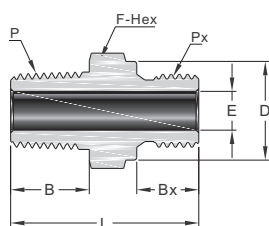
Hex Nipples



Male NPT Threads

P-NPT Size	Px-BSPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)	
			L	F	B	Bx	E	316 SS, Steel	Brass
1/8	1/8	NPT2-THN-MBT2-	25.6	11.1	9.7	9.7	4.8	10000 (689)	5000 (344)
1/4	1/4	NPT4-THN-MBT4-	35.6	14.3	14.2	14.2	7.1	8000 (551)	4000 (275)
3/8	3/8	NPT6-THN-MBT6-	36.3	17.5	14.2	14.2	9.7	7800 (537)	3900 (268)
1/2	1/2	NPT8-THN-MBT8-	46.7	22.2	19.1	19.1	11.9	7700 (530)	3800 (261)
3/4	3/4	NPT12-THN-MBT12-	46.7	27.0	19.1	19.1	15.7	7300 (502)	3600 (248)
1	1	NPT16-THN-MBT16-	58.9	34.9	23.9	23.9	22.4	5300 (365)	2600 (179)

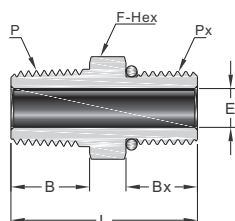
Male ISO Tapered Threads



Male NPT Threads

P-NPT Size	Px-BS Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
			L	F	B	Bx	E	D	316 SS, Steel	Brass
1/8	1/8	NPT2-THN-MBS2-	27.7	14.3	9.7	7.1	4.1	13.7	11400 (785)	5700 (392)
1/4	1/4	NPT4-THN-MBS4-	36.8	19.1	14.2	11.2	5.8	18.0	10300 (709)	5100 (351)
3/8	3/8	NPT6-THN-MBS6-	37.6	22.2	14.2	11.2	7.9	21.6	10300 (709)	5100 (351)
1/2	1/2	NPT8-THN-MBS8-	44.4	27.0	19.1	14.2	11.9	25.9	7600 (523)	3800 (261)
3/4	3/4	NPT12-THN-MBS12-	49.0	33.3	19.1	15.7	15.7	32.0	7300 (502)	3600 (248)
1	1	NPT16-THN-MBS16-	56.6	41.3	23.9	18.3	19.8	38.9	7400 (509)	3700 (254)

Male ISO parallel Threads

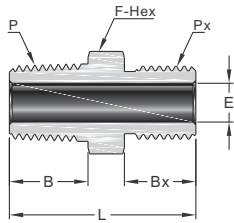


Male NPT Threads

P-NPT Size	Px-SAE/MS Thread Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar) 316 SS, Steel
			L	F	B	Bx	E	
1/4	7/16-20	NPT4-THN-OST7-	30.5	14.3	14.2	9.1	5.1	4500 (310)
3/8	9/16-18	NPT6-THN-OST9-	32.0	17.5	14.2	9.1	7.1	4500 (310)
1/2	3/4-16	NPT8-THN-OST12-	38.9	22.2	19.1	11.2	10.7	4500 (310)
3/4	1 1/16-12	NPT12-THN-OST17-	44.4	31.8	19.1	15.0	15.7	3600 (248)
1	1 5/16-12	NPT16-THN-OST21-	50.8	38.1	23.9	15.0	22.4	2900 (199)

Male SAE/MS Straight Threads

Hex Nipples



Male NPT Threads

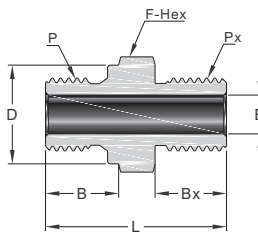
P-NPT Size	Px-Metric Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar) 316 SS, Steel
			L	F	B	Bx	E	
1/8	M20 x 1.5	NPT2-THN-MS20-	32.7	22.2	9.7	16	5.0	7700 (530)
1/4	M8 x 1	NPT4-THN-MS8-	29.0	14.3	14.2	9	3.2	8000 (551)
1/4	M14 x 1.5	NPT4-THN-MS14-	34.2	15.9	14.2	13	7.0	8000 (551)
1/4	M16 x 1.5	NPT4-THN-MS16-	35.2	17.5	14.2	14	7.1	7800 (537)
1/4	M20 x 1.5	NPT4-THN-MS20-	37.2	22.2	14.2	16	7.0	7700 (530)
3/8	M14 x 1.5	NPT6-THN-MS14-	34.2	17.5	14.2	13	7.0	7800 (537)
3/8	M20 x 1.5	NPT6-THN-MS20-	37.2	22.2	14.2	16	9.5	7700 (530)
3/8	M24 x 1.5	NPT6-THN-MS24-	38.2	27	14.2	17	9.5	7400 (509)
1/2	M14 x 1.5	NPT8-THN-MS14-	39.1	22.2	19.1	13	7.0	7700 (530)
1/2	M20 x 1.5	NPT8-THN-MS20-	42.0	22.2	19.1	16	10.0	7700 (530)
1/2	M24 x 1.5	NPT8-THN-MS24-	43.5	27	19.1	17	11.9	7400 (509)
3/4	M20 x 1.5	NPT12-THN-MS20-	42.1	27	19.1	16	10.0	7300 (502)
3/4	M27 x 2	NPT12-THN-MS27-	46.7	31.8	19.1	18	15.8	6100 (420)
1	M30 x 2	NPT16-THN-MS30-	55.0	34.9	23.9	20	11.9	6100 (420)

Male Metric Threads

Male ISO Tapered Threads

P-BSPT Size	Px-Metric Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar) 316 SS, Steel
			L	F	B	Bx	E	
1/8	M20 x 1.5	MBT2-THN-MS20-	32.7	22.2	9.7	16	5.0	7700 (530)
1/4	M12 x 1.5	MBT4-THN-MS12-	33.4	14.3	14.2	15	5.0	8000 (551)
1/4	M20 x 1.5	MBT4-THN-MS20-	37.2	22.2	14.2	16	7.0	7700 (530)
3/8	M20 x 1.5	MBT6-THN-MS20-	37.2	22.2	14.2	16	9.5	7700 (530)
1/2	M20 x 1.5	MBT8-THN-MS20-	42.0	22.2	19.1	16	10.0	7700 (530)

Male Metric Threads

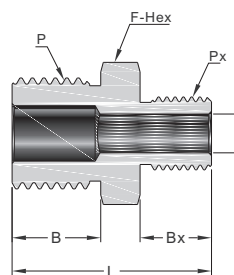


Male ISO Parallel Threads

P-BS Size	Px-Metric Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar) 316 SS, Steel
			L	F	B	Bx	E	D	
1/8	M20 x 1.5	MBS2-THN-MS20-	30.1	22.2	7.1	16	4.0	13.7	
1/4	M18 x 1.5	MBS4-THN-MS18-	34.2	20.6	11.2	15	5.9	18.0	
1/4	M20 x 1.5	MBS4-THN-MS20-	36.2	22.2	11.2	16	5.9	18.0	7700 (530)
3/8	M20 x 1.5	MBS6-THN-MS20-	36.2	22.2	11.2	16	7.9	21.6	7800 (537)
1/2	M20 x 1.5	MBS8-THN-MS20-	40.2	22.2	14.0	16	11.9	25.9	7700 (530)

Male Metric Threads

7700 (530)
7700 (530)

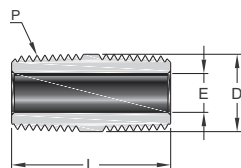


Male Metric Threads

P-Metric Size	Px-Metric Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar) 316 SS, Steel
			L	F	B	Bx	E	
M20 x 1.5	M10 x 1	MS20-THN-MS10-	34	22.2	16	11	4.0	
M20 x 1.5	M12 x 1.5	MS20-THN-MS12-	35	22.2	16	12	6.0	10000 (689)
M20 x 1.5	M14 x 1.5	MS20-THN-MS14-	36	22.2	16	13	8.0	9000 (620)
M20 x 1.5	M16 x 1.5	MS20-THN-MS16-	37	22.2	16	14	9.0	8000 (551)
M20 x 1.5	M20 x 1.5	MS20-THN-MS20-	39	22.2	16	16	10.0	7800 (537)
M27 x 2	M27 x 2	MS27-THN-MS27-	44.5	30.1	18	18	14.0	7700 (530)

7300 (502)

Close Nipples



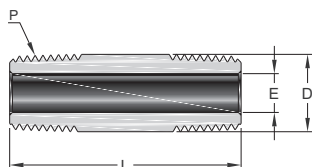
Male NPT Threads

P-NPT Size	Basic Ordering Number	Dimension, mm			Working Pressure psig (bar)	
		L	D	E	316 SS, Steel	Brass
1/16	NPT1-TCN-NPT1-	19.1	7.9	3.0	11000 (757)	5500 (378)
1/8	NPT2-TCN-NPT2-	19.1	10.3	4.8	10000 (689)	5000 (344)
1/4	NPT4-TCN-NPT4-	28.4	13.7	7.1	8000 (551)	4000 (275)
3/8	NPT6-TCN-NPT6-	28.4	17.1	9.6	7800 (537)	3900 (268)
1/2	NPT8-TCN-NPT8-	38.1	21.3	11.9	7700 (530)	3800 (261)
3/4	NPT12-TCN-NPT12-	38.1	26.7	15.7	7300 (502)	3600 (248)
1	NPT16-TCN-NPT16-	47.8	33.4	22.4	5300 (365)	2600 (179)

Male ISO Tapered Threads

P-BSPT Size	Basic Ordering Number	Dimension, mm			Working Pressure psig (bar)	
		L	D	E	316 SS, Steel	Brass
1/16	MBT1-TCN-MBT1-	19.1	7.9	3.0	11000 (757)	5500 (378)
1/8	MBT2-TCN-MBT2-	19.1	10.3	4.8	10000 (689)	5000 (344)
1/4	MBT4-TCN-MBT4-	28.4	13.7	7.1	8000 (551)	4000 (275)
3/8	MBT6-TCN-MBT6-	28.4	17.1	9.7	7800 (537)	3900 (268)
1/2	MBT8-TCN-MBT8-	38.1	21.3	11.9	7700 (530)	3800 (261)
3/4	MBT12-TCN-MBT12-	38.1	26.7	15.7	7300 (502)	3600 (248)
1	MBT16-TCN-MBT16-	47.8	33.4	22.4	5300 (365)	2600 (179)

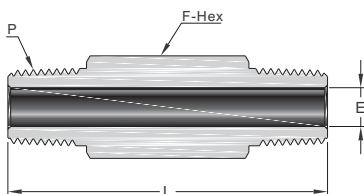
Special Pipe Nipples



Male NPT Threads

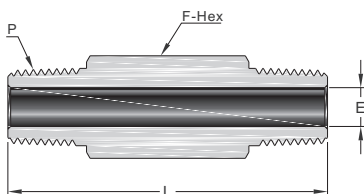
P-NPT Size	Basic Ordering Number	Dimension, mm			Working Pressure psig (bar)	
		L	D	E	316 SS, Steel	Brass
1/8	NPT2-TPN-NPT2-38.1-	38.1	10.3	4.8	10000 (689)	5000 (344)
1/8	NPT2-TPN-NPT2-50.8-	50.8	10.3	4.8	10000 (689)	5000 (344)
1/8	NPT2-TPN-NPT2-63.5-	63.5	10.3	4.8	10000 (689)	5000 (344)
1/8	NPT2-TPN-NPT2-76.2-	76.2	10.3	4.8	10000 (689)	5000 (344)
1/4	NPT4-TPN-NPT4-38.1-	38.1	13.7	7.1	8000 (551)	4000 (275)
1/4	NPT4-TPN-NPT4-50.8-	50.8	13.7	7.1	8000 (551)	4000 (275)
1/4	NPT4-TPN-NPT4-63.5-	63.5	13.7	7.1	8000 (551)	4000 (275)
1/4	NPT4-TPN-NPT4-76.2-	76.2	13.7	7.1	8000 (551)	4000 (275)
1/4	NPT4-TPN-NPT4-101.6-	101.6	13.7	7.1	8000 (551)	4000 (275)
3/8	NPT6-TPN-NPT6-38.1-	38.1	17.1	9.7	7800 (537)	3900 (268)
3/8	NPT6-TPN-NPT6-50.8-	50.8	17.1	9.7	7800 (537)	3900 (268)
3/8	NPT6-TPN-NPT6-63.5-	63.5	17.1	9.7	7800 (537)	3900 (268)
3/8	NPT6-TPN-NPT6-76.2-	76.2	17.1	9.7	7800 (537)	3900 (268)
3/8	NPT6-TPN-NPT6-101.6-	101.6	17.1	9.7	7800 (537)	3900 (268)
1/2	NPT8-TPN-NPT8-50.8-	50.8	21.3	11.9	7700 (530)	3800 (261)
1/2	NPT8-TPN-NPT8-76.2-	76.2	21.3	11.9	7700 (530)	3800 (261)
1/2	NPT8-TPN-NPT8-101.6-	101.6	21.3	11.9	7700 (530)	3800 (261)
1/2	NPT8-TPN-NPT8-152.4-	152.4	21.3	11.9	7700 (530)	3800 (261)
3/4	NPT12-TPN-NPT12-50.8-	50.8	26.7	15.7	7300 (502)	3600 (248)
3/4	NPT12-TPN-NPT12-76.2-	76.2	26.7	15.7	7300 (502)	3600 (248)
3/4	NPT12-TPN-NPT12-101.6-	101.6	26.7	15.7	7300 (502)	3600 (248)
1	NPT16-TPN-NPT16-76.2-	76.2	33.4	22.4	5300 (365)	2600 (179)
1	NPT16-TPN-NPT16-101.6-	101.6	33.4	22.4	5300 (365)	2600 (179)

Hex Long Nipples



Male NPT Threads

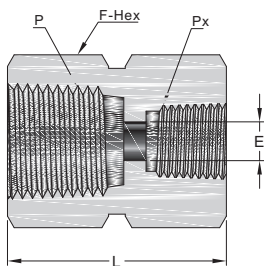
P-NPT Size	Basic Ordering Number	Dimension, mm			Working Pressure psig (bar)	
		L	F	E	316 SS, Steel	Brass
1/8	NPT2-TLN-NPT2-38.1-	38.1	11.1	4.8	10000 (689)	5000 (344)
1/8	NPT2-TLN-NPT2-50.8-	50.8	11.1	4.8	10000 (689)	5000 (344)
1/8	NPT2-TLN-NPT2-63.5-	63.5	11.1	4.8	10000 (689)	5000 (344)
1/8	NPT2-TLN-NPT2-76.2-	76.2	11.1	4.8	10000 (689)	5000 (344)
1/4	NPT4-TLN-NPT4-38.1-	38.1	14.3	7.1	8000 (551)	4000 (275)
1/4	NPT4-TLN-NPT4-50.8-	50.8	14.3	7.1	8000 (551)	4000 (275)
1/4	NPT4-TLN-NPT4-63.5-	63.5	14.3	7.1	8000 (551)	4000 (275)
1/4	NPT4-TLN-NPT4-76.2-	76.2	14.3	7.1	8000 (551)	4000 (275)
1/4	NPT4-TLN-NPT4-101.6-	101.6	14.3	7.1	8000 (551)	4000 (275)
3/8	NPT6-TLN-NPT6-38.1-	38.1	17.5	9.7	7800 (537)	3900 (268)
3/8	NPT6-TLN-NPT6-50.8-	50.8	17.5	9.7	7800 (537)	3900 (268)
3/8	NPT6-TLN-NPT6-63.5-	63.5	17.5	9.7	7800 (537)	3900 (268)
3/8	NPT6-TLN-NPT6-76.2-	76.2	17.5	9.7	7800 (537)	3900 (268)
3/8	NPT6-TLN-NPT6-101.6-	101.6	17.5	9.7	7800 (537)	3900 (268)
1/2	NPT8-TLN-NPT8-50.8-	50.8	22.2	11.9	7700 (530)	3800 (261)
1/2	NPT8-TLN-NPT8-76.2-	76.2	22.2	11.9	7700 (530)	3800 (261)
1/2	NPT8-TLN-NPT8-101.6-	101.6	22.2	11.9	7700 (530)	3800 (261)
1/2	NPT8-TLN-NPT8-152.4-	152.4	22.2	11.9	7700 (530)	3800 (261)
3/4	NPT12-TLN-NPT12-50.8-	50.8	27.0	15.7	7300 (502)	3600 (248)
3/4	NPT12-TLN-NPT12-76.2-	76.2	27.0	15.7	7300 (502)	3600 (248)
3/4	NPT12-TLN-NPT12-101.6-	101.6	27.0	15.7	7300 (502)	3600 (248)
1	NPT16-TLN-NPT16-76.2-	76.2	34.9	22.4	5300 (365)	2600 (179)
1	NPT16-TLN-NPT16-101.6-	101.6	34.9	22.4	5300 (365)	2600 (179)



Male ISO Tapered Threads

P-BSPT Size	Basic Ordering Number	Dimension, mm			Working Pressure psig (bar)	
		L	F	E	316 SS, Steel	Brass
1/8	MBT2-TLN-MBT2-38.1-	38.1	11.1	4.8	10000 (689)	5000 (344)
1/8	MBT2-TLN-MBT2-50.8-	50.8	11.1	4.8	10000 (689)	5000 (344)
1/8	MBT2-TLN-MBT2-63.5-	63.5	11.1	4.8	10000 (689)	5000 (344)
1/8	MBT2-TLN-MBT2-76.2-	76.2	11.1	4.8	10000 (689)	5000 (344)
1/4	MBT4-TLN-MBT4-38.1-	38.1	14.3	7.1	8000 (551)	4000 (275)
1/4	MBT4-TLN-MBT4-50.8-	50.8	14.3	7.1	8000 (551)	4000 (275)
1/4	MBT4-TLN-MBT4-63.5-	63.5	14.3	7.1	8000 (551)	4000 (275)
1/4	MBT4-TLN-MBT4-76.2-	76.2	14.3	7.1	8000 (551)	4000 (275)
1/4	MBT4-TLN-MBT4-101.6-	101.6	14.3	7.1	8000 (551)	4000 (275)
3/8	MBT6-TLN-MBT6-38.1-	38.1	17.5	9.7	7800 (537)	3900 (268)
3/8	MBT6-TLN-MBT6-50.8-	50.8	17.5	9.7	7800 (537)	3900 (268)
3/8	MBT6-TLN-MBT6-63.5-	63.5	17.5	9.7	7800 (537)	3900 (268)
3/8	MBT6-TLN-MBT6-76.2-	76.2	17.5	9.7	7800 (537)	3900 (268)
3/8	MBT6-TLN-MBT6-101.6-	101.6	17.5	9.7	7800 (537)	3900 (268)
1/2	MBT8-TLN-MBT8-50.8-	50.8	22.2	11.9	7700 (530)	3800 (261)
1/2	MBT8-TLN-MBT8-76.2-	76.2	22.2	11.9	7700 (530)	3800 (261)
1/2	MBT8-TLN-MBT8-101.6-	101.6	22.2	11.9	7700 (530)	3800 (261)
1/2	MBT8-TLN-MBT8-152.4-	152.4	22.2	11.9	7700 (530)	3800 (261)
3/4	MBT12-TLN-MBT12-50.8-	50.8	27.0	15.7	7300 (502)	3600 (248)
3/4	MBT12-TLN-MBT12-76.2-	76.2	27.0	15.7	7300 (502)	3600 (248)
3/4	MBT12-TLN-MBT12-101.6-	101.6	27.0	15.7	7300 (502)	3600 (248)
1	MBT16-TLN-MBT16-76.2-	76.2	34.9	22.4	5300 (365)	2600 (179)
1	MBT16-TLN-MBT16-101.6-	101.6	34.9	22.4	5300 (365)	2600 (179)

Hex Couplings



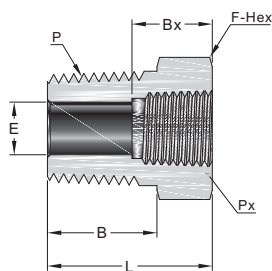
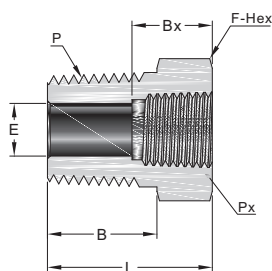
Female FNPT Threads

P-NPT Size	Px-NPT Size	Basic Ordering Number	Dimension, mm			Working Pressure psig (bar)	
			L	F	E	316 SS, Steel	Brass
1/16	1/16	FNPT1-THC-FNPT1-	19.8	11.1	4.8	6700 (460)	3300 (227)
1/8	1/8	FNPT2-THC-FNPT2-	20.6	14.3	8.6	6500 (447)	3200 (220)
1/4	1/8	FNPT4-THC-FNPT2-	31.0	19.1	8.6	6600 (454)	3300 (227)
1/4	1/4	FNPT4-THC-FNPT4-	30.2	19.1	11.4	6600 (454)	3300 (227)
3/8	1/4	FNPT6-THC-FNPT4-	35.1	22.2	11.4	5300 (365)	2600 (179)
3/8	3/8	FNPT6-THC-FNPT6-	33.3	22.2	15.0	5300 (365)	2600 (179)
1/2	1/8	FNPT8-THC-FNPT2-	39.6	27.0	8.6	4900 (337)	2400 (165)
1/2	1/4	FNPT8-THC-FNPT4-	44.4	27.0	11.4	4900 (337)	2400 (165)
1/2	3/8	FNPT8-THC-FNPT6-	45.2	27.0	15.0	4900 (337)	2400 (165)
1/2	1/2	FNPT8-THC-FNPT8-	39.6	27.0	18.5	4900 (337)	2400 (165)
3/4	1/4	FNPT12-THC-FNPT4-	46.0	33.3	11.4	4600 (316)	2300 (158)
3/4	1/2	FNPT12-THC-FNPT8-	52.3	33.3	18.5	4600 (316)	2300 (158)
3/4	3/4	FNPT12-THC-FNPT12-	41.1	33.3	23.9	4600 (316)	2300 (158)
1	1/2	FNPT16-THC-FNPT8-	55.6	41.3	18.5	4400 (303)	2200 (151)
1	3/4	FNPT16-THC-FNPT12-	57.2	41.3	23.9	4400 (303)	2200 (151)
1	1	FNPT16-THC-FNPT16-	50.8	41.3	29.7	4400 (303)	2200 (151)
Heavy-Wall Female FNPT Threads							
1/4	1/4	FNPT4-THC1-FNPT4-	30.2	25.4	11.4	10000 (689)	—
1/2	1/2	FNPT8-THC1-FNPT8-	39.6	38.1	18.5	10000 (689)	—
1/2	1/4	FNPT8-THC1-FNPT4-	44.4	38.1	11.4	10000 (689)	—

Female ISO Tapered Threads

P-BSPT Size	Px-BSPT Size	Basic Ordering Number	Dimension, mm			Working Pressure psig (bar)	
			L	F	E	316 SS, Steel	Brass
1/8	1/8	FBT2-THC-FBT2-	20.6	14.3	8.4	6500 (447)	3200 (220)
1/4	1/4	FBT4-THC-FBT4-	30.2	19.1	11.2	6600 (454)	3300 (227)
3/8	1/4	FBT6-THC-FBT4-	35.1	22.2	11.2	5300 (365)	2600 (179)
3/8	3/8	FBT6-THC-FBT6-	33.3	22.2	14.7	5300 (365)	2600 (179)
1/2	1/4	FBT8-THC-FBT4-	44.4	27.0	11.2	4900 (337)	2400 (165)
1/2	3/8	FBT8-THC-FBT6-	45.2	27.0	14.7	4900 (337)	2400 (165)
1/2	1/2	FBT8-THC-FBT8-	39.6	27.0	18.3	4900 (337)	2400 (165)

Reducing Bushings



Male NPT Threads

Female NPT Threads

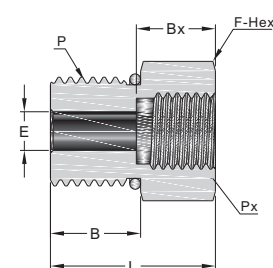
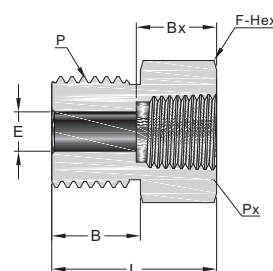
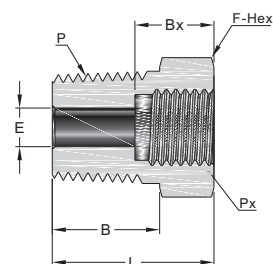
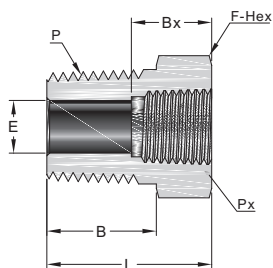
P-NPT Size	Px-NPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)	
			L	F	B	Bx	E	316 SS, Steel	Brass
1/8	1/16	NPT2-TRB-FNPT1-	26.2	11.1	9.7	9.9	4.8	6500 (447)	3200 (220)
1/4	1/16	NPT4-TRB-FNPT1-	21.8	14.3	14.2	9.9	4.8	8000 (551)	4000 (275)
1/4	1/8	NPT4-TRB-FNPT2-	26.9	14.3	14.2	10.4	7.1	6500 (447)	3300 (227)
3/8	1/16	NPT6-TRB-FNPT1-	21.8	17.5	14.2	9.9	4.8	13300 (971)	6600 (454)
3/8	1/8	NPT6-TRB-FNPT2-	21.8	17.5	14.2	10.4	8.6	9200 (633)	4700 (323)
3/8	1/4	NPT6-TRB-FNPT4-	30.2	19.1	14.2	15.0	9.6	6600 (454)	3300 (227)
1/2	1/8	NPT8-TRB-FNPT2-	27.4	22.2	19.1	10.4	8.6	12200 (840)	6200 (427)
1/2	1/4	NPT8-TRB-FNPT4-	27.4	22.2	19.1	15.0	11.4	8300 (571)	4400 (303)
1/2	3/8	NPT8-TRB-FNPT6-	35.8	22.2	19.1	15.0	11.9	5300 (365)	2600 (179)
3/4	1/8	NPT12-TRB-FNPT2-	27.4	27.0	19.1	10.4	7.1	20000(1378)	10000(689)
3/4	1/4	NPT12-TRB-FNPT4-	27.4	27.0	19.1	15.0	11.4	12000 (826)	6000 (410)
3/4	3/8	NPT12-TRB-FNPT6-	27.4	27.0	19.1	15.0	15.0	8200 (564)	4300 (296)
3/4	1/2	NPT12-TRB-FNPT8-	41.4	27.0	19.1	19.8	15.7	4900 (337)	2400 (165)
1	1/8	NPT16-TRB-FNPT2-	34.5	34.9	23.9	10.4	7.1	20000(1378)	10000(689)
1	1/4	NPT16-TRB-FNPT4-	34.8	34.9	23.9	15.0	11.4	14500 (999)	7400 (509)
1	3/8	NPT16-TRB-FNPT6-	34.8	34.9	23.9	15.0	15.0	11600 (799)	5900 (406)
1	1/2	NPT16-TRB-FNPT8-	34.8	34.9	23.9	19.8	18.5	8600 (592)	4300 (296)
1	3/4	NPT16-TRB-FNPT12-	47.0	34.9	23.9	20.6	22.4	5300 (365)	2600 (179)
1 1/4	3/4	NPT20-TRB-FNPT12-	37.3	44.5	23.9	20.6	22.4	7800 (537)	3900 (268)
1 1/4	1	NPT20-TRB-FNPT16-	37.3	44.5	23.9	25.4	22.4	3500 (241)	1750 (120)
1 1/2	1	NPT24-TRB-FNPT16-	40.1	50.8	26.2	25.4	22.4	6600 (454)	3300 (227)
1 1/2	1 1/4	NPT24-TRB-FNPT20-	56.0	54.0	26.2	25.4	34.0	5000 (344)	2500 (172)

Male NPT Threads

Female ISO Tapered Pipe Threads

P-NPT Size	Px-BSPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)	
			L	F	B	Bx	E	316 SS, Steel	Brass
1/8	1/16	NPT2-TRB-FBT1-	26.2	11.1	9.7	9.9	4.8	6500 (447)	3200 (220)
1/4	1/16	NPT4-TRB-FBT1-	21.8	14.3	14.2	9.9	4.8	8000 (551)	4000 (275)
1/4	1/8	NPT4-TRB-FBT2-	26.9	14.3	14.2	10.4	7.1	6500 (447)	3300 (227)
3/8	1/16	NPT6-TRB-FBT1-	21.8	17.5	14.2	9.9	4.8	13300 (917)	6600 (454)
3/8	1/8	NPT6-TRB-FBT2-	21.8	17.5	14.2	10.4	7.1	9200 (633)	4700 (323)
3/8	1/4	NPT6-TRB-FBT4-	30.2	19.1	14.2	15.0	9.7	6600 (454)	3300 (227)
1/2	1/8	NPT8-TRB-FBT2-	27.4	22.2	19.1	10.4	7.1	12200 (840)	6200 (427)
1/2	1/4	NPT8-TRB-FBT4-	27.4	22.2	19.1	15.0	10.4	8300 (571)	4400 (303)
1/2	3/8	NPT8-TRB-FBT6-	35.8	22.2	19.1	15.0	11.9	5300 (365)	2600 (179)
3/4	1/8	NPT12-TRB-FBT2-	27.4	27.0	19.1	10.4	7.1	20000 (1378)	10000 (689)
3/4	1/4	NPT12-TRB-FBT4-	27.4	27.0	19.1	15.0	10.4	12000 (826)	6000 (410)
3/4	3/8	NPT12-TRB-FBT6-	27.4	27.0	19.1	15.0	12.7	8200 (564)	4300 (296)
3/4	1/2	NPT12-TRB-FBT8-	41.4	27.0	19.1	19.8	15.7	4900 (337)	2400 (165)
1	1/8	NPT16-TRB-FBT2-	34.5	34.9	23.9	10.4	7.1	20000 (1378)	10000 (689)
1	1/4	NPT16-TRB-FBT4-	34.8	34.9	23.9	15.0	10.4	14500 (999)	7400 (509)
1	3/8	NPT16-TRB-FBT6-	34.8	34.9	23.9	15.0	12.7	11600 (799)	5900 (406)
1	1/2	NPT16-TRB-FBT8-	34.8	34.9	23.9	19.8	15.7	8600 (592)	4300 (296)
1	3/4	NPT16-TRB-FBT12-	47.0	34.9	23.9	20.6	22.4	5300 (365)	2600 (179)
1 1/4	3/4	NPT20-TRB-FBT12-	37.3	44.5	23.9	20.6	22.4	7800 (537)	3900 (268)
1 1/4	1	NPT20-TRB-FBT16-	37.3	44.5	23.9	25.4	22.4	3500 (241)	1750 (120)
1 1/2	1	NPT24-TRB-FBT16-	40.1	50.8	26.2	25.4	22.4	6600 (454)	3300 (227)
1 1/2	1 1/4	NPT24-TRB-FBT20-	56.0	54.0	26.2	25.4	34.0	5000 (344)	2500 (172)

Reducing Bushings



Male ISO Tapered Threads

P-BSPT Size	Px-BSPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)	
			L	F	B	Bx	E	316 SS, Steel	Brass
1/4	1/8	MBT4-TRB-FBT2-	26.9	14.3	14.2	10.4	7.1	6500 (447)	3200 (220)
3/8	1/4	MBT6-TRB-FBT4-	30.2	19.1	14.2	15.0	9.6	6600 (454)	3300 (227)
1/2	1/4	MBT8-TRB-FBT4-	27.4	22.2	19.1	15.0	11.2	8300 (571)	4400 (303)
1/2	3/8	MBT8-TRB-FBT6-	35.8	22.2	19.1	15.0	11.9	5300 (365)	2600 (179)

Female ISO Tapered Threads

Male NPT Threads

P-NPT Size	Px-BG Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)	
			L	F	B	Bx	E	316 SS, Steel	Brass
3/8	1/4	NPT6-TRB-FBP4-	30.2	19.1	14.2	12.9	5.6	5700 (392)	
1/2	3/8	NPT8-TRB-FBP6-	35.8	22.2	19.1	14.2	6.6	5700 (392)	
3/4	1/2	NPT12-TRB-FBP8-	41.4	27.0	19.1	18.8	7.1	3900 (268)	

Female ISO Parallel Threads

Male ISO Parallel Threads

P-BG Size	Px-NPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)	
			L	F	B	Bx	E	316 SS, Steel	Brass
1/4	1/8	MBP4-TRB-FNPT2-	26.9	14.3	12.9	10.4	4.5	6500 (447)	3200 (220)
3/8	1/4	MBP6-TRB-FNPT4-	31.0	19.1	14.2	15	7.1	6600 (454)	3300 (227)
1/2	3/8	MBP8-TRB-FNPT6-	35.8	22.2	18.8	15	6.6	5300 (365)	2600 (179)

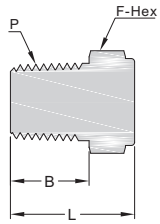
Female NPT Threads

Male SAE Straight Threads

P-SAE/MS Thread Size	Px-SAE/MS Thread Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)	
			L	F	B	Bx	E	316 SS, Steel	Brass
9/16-18	7/16-20	OST9-TRB-FST7-	28.4	20.6	9.9	14.0	7.1	4500 (310)	
3/4-16	7/16-20	OST12-TRB-FST7-	24.9	22.2	11.2	14.0	9.9	4500 (310)	
3/4-16	9/16-18	OST12-TRB-FST9-	30.2	25.4	11.2	16.0	10.7	4500 (310)	
7/8-14	9/16-18	OST14-TRB-FST9-	27.9	25.4	12.7	16.0	12.7	3600 (248)	
7/8-14	3/4-16	OST14-TRB-FST12-	36.1	30.2	12.7	18.0	12.7	3600 (248)	
1 1/16-12	3/4-16	OST17-TRB-FST12-	32.3	31.8	15.0	18.0	16.5	3600 (248)	
1 5/16-12	1 1/16-12	OST21-TRB-FST17-	40.9	41.3	15.0	24.0	22.1	2900 (199)	
1 5/8-12	1 5/16-12	OST26-TRB-FST21-	50.3	54.0	15.0	24.0	27.7	2300 (158)	
1 7/8-12	1 5/16-12	OST30-TRB-FST21-	50.3	54.0	15.0	24.0	31.2	2300 (158)	

Female MS Straight Threads

Pipe Plugs

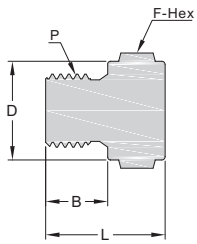


Male NPT Threads

P-NPT Size	Basic Ordering Number	Dimension, mm		
		L	F	B
1/16	TP-NPT1-	14.2	7.9	9.7
1/8	TP-NPT2-	14.2	11.1	9.7
1/4	TP-NPT4-	19.1	14.3	14.2
3/8	TP-NPT6-	19.8	17.5	14.2
1/2	TP-NPT8-	24.6	22.2	19.1
3/4	TP-NPT12-	30.7	27.0	19.1
1	TP-NPT16-	38.1	34.9	23.9
1 1/4	TP-NPT20-	38.4	44.5	23.9
1 1/2	TP-NPT24-	43.7	50.8	26.2
2	TP-NPT32-	50.8	69.9	26.2

Male ISO Tapered Threads

P-BSPT Size	Basic Ordering Number	Dimension, mm		
		L	F	B
1/16	TP-MBT1-	14.2	7.9	9.7
1/8	TP-MBT2-	14.2	11.1	9.7
1/4	TP-MBT4-	19.1	14.3	14.2
3/8	TP-MBT6-	19.8	17.5	14.2
1/2	TP-MBT8-	24.6	22.2	19.1
3/4	TP-MBT12-	30.7	27.0	19.1
1	TP-MBT16-	38.1	34.9	23.9
1 1/4	TP-MBT20-	38.4	44.5	23.9
1 1/2	TP-MBT24-	43.7	50.8	26.2
2	TP-MBT32-	50.8	69.9	26.2

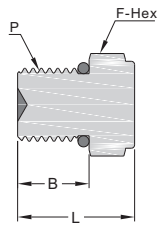


Male ISO parallel Threads

P-BS Size	Basic Ordering Number	Dimension, mm			
		L	F	B	D
1/8	TP-MBS2-	14.0	14.3	7.1	13.7
1/4	TP-MBS4-	19.8	19.1	11.2	18.0
3/8	TP-MBS6-	19.8	22.2	11.2	21.8
1/2	TP-MBS8-	25.1	27.0	14.0	25.9
3/4	TP-MBS12-	28.7	33.3	15.7	32.0
1	TP-MBS16-	30.7	41.3	18.0	39.1

Male Metric Threads

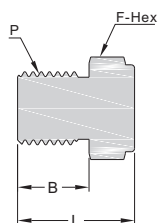
P-Metric Size	Basic Ordering Number	Dimension, mm			
		L	F	B	D
M14 x 1.5	TP-BSMS14-	21	20.6	12	18.8
M16 x 1.5	TP-BSMS16-	23	22.2	12	20.8
M18 x 1.5	TP-BSMS18-	25	23.8	12	22.8
M20 x 1.5	TP-BSMS20-	26.5	25.4	14	24.8
M22 x 1.5	TP-BSMS22-	28.5	28.6	14	26.8
M24 x 1.5	TP-BSMS24-	29	35.0	14	28.8
M27 x 2	TP-BSMS27-	30	36.5	16	31.8



Male SAE/MS Straight Threads

P-SAE/MS Thread Size	Basic Ordering Number	Dimension, mm		
		L	F	B
7/16-20	TP-OST7-	19.3	14.3	9.1
9/16-18	TP-OST9-	20.8	17.5	9.9
3/4-16	TP-OST12-	22.6	22.2	11.2
1 1/16-12	TP-OST17-	28.4	31.8	15.0
1 5/16-12	TP-OST21-	30.0	38.1	15.0

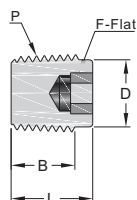
Pipe Plugs



Male Metric Threads

P-Metric Size	Basic Ordering Number	Dimension, mm		
		L	F	B
M14 x 1.5	TP-MS14-	18	16	13
M16 x 1.5	TP-MS16-	20	18	14
M18 x 1.5	TP-MS18-	22	19	15
M20 x 1.5	TP-MS20-	24	22	16
M22 x 1.5	TP-MS22-	26	24	17
M24 x 1.5	TP-MS24-	26	27	17
M27 x 2	TP-MS27-	27	30	18
M30 x 2	TP-MS30-	32	32	20

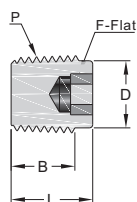
Hollow Hex Plugs



Male ISO Tapered Threads

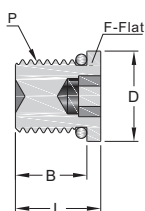
P-BSPT Size	Basic Ordering Number	Dimension, mm			
		L	F	B	D
1/16	THP-MBT1-	7.6	4.0	7.4	7.4
1/8	THP-MBT2-	10.4	4.8	7.4	9.4
1/4	THP-MBT4-	15.5	6.4	12.4	12.1
3/8	THP-MBT6-	15.5	7.9	12.4	15.7
1/2	THP-MBT8-	19.3	9.5	16.2	19.3
3/4	THP-MBT12-	19.8	14.3	16.7	25.7
1	THP-MBT16-	20.8	15.9	17.7	31.8

Hollow Hex Plugs



Male NPT Threads

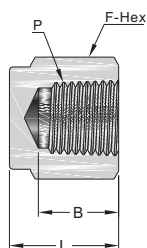
P-NPT Size	Basic Ordering Number	Dimension, mm			
		L	F	B	D
1/16	THP-NPT1-	7.6	4.0	7.4	7.4
1/8	THP-NPT2-	10.4	4.8	7.4	9.4
1/4	THP-NPT4-	15.5	6.4	12.4	12.1
3/8	THP-NPT6-	15.0	7.9	11.9	15.7
1/2	THP-NPT8-	19.3	9.5	16.2	19.3
3/4	THP-NPT12-	19.8	14.3	16.7	25.7
1	THP-NPT16-	20.8	15.9	17.7	31.8



Male SAE/MS Straight Threads

P-SAE/MS Thread Size	Basic Ordering Number	Dimension, mm			
		L	F	B	D
7/16-20	THP-OST7-	11.4	4.8	9.1	14.2
9/16-18	THP-OST9-	12.2	6.4	9.9	17.5
3/4-16	THP-OST12-	14.2	7.9	11.2	22.4
1 1/16-12	THP-OST17-	19.1	14.3	15.0	31.8
1 5/16-12	THP-OST21-	19.1	15.9	15.0	38.1

Pipe Caps



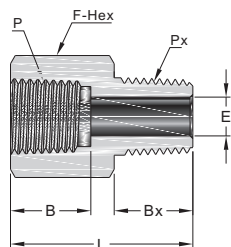
Female NPT Threads

P-NPT Size	Basic Ordering Number	Dimension, mm			Working Pressure psig (bar)	
		L	F	B	316 SS, Steel	Brass
1/16	PC-FNPT1-	12.7	11.1	9.9	6700 (460)	3300 (227)
1/8	PC-FNPT2-	19.1	14.3	10.4	6500 (447)	3200 (220)
1/4	PC-FNPT4-	23.1	19.1	15.0	6600 (454)	3300 (277)
3/8	PC-FNPT6-	26.2	22.2	15.0	5300 (365)	2600 (179)
1/2	PC-FNPT8-	34.0	27.0	19.8	4900 (337)	2400 (165)
3/4	PC-FNPT12-	36.6	33.3	20.6	4600 (316)	2300 (158)
1	PC-FNPT16-	41.1	41.3	25.4	4400 (303)	2200 (151)
Heavy-Wall Female NPT Threads						
1/4	PC1-FNPT4	28.2	25.4	15.0	10000 (689)	—
1/2	PC1-FNPT8	40.1	38.1	19.8	10000 (689)	—

Female ISO Tapered Threads

P-BSPT Size	Basic Ordering Number	Dimension, mm			Working Pressure psig (bar)	
		L	F	B	316 SS, Steel	Brass
1/16	PC-FBT1-	12.7	11.1	9.9	6700 (460)	3300 (227)
1/8	PC-FBT2-	19.1	14.3	10.4	6500 (447)	3200 (220)
1/4	PC-FBT4-	23.1	19.1	15.0	6600 (454)	3300 (277)
3/8	PC-FBT6-	26.2	22.2	15.0	5300 (365)	2600 (179)
1/2	PC-FBT8-	34.0	27.0	19.8	4900 (337)	2400 (165)
3/4	PC-FBT12-	36.6	33.3	20.6	4600 (316)	2300 (158)
1	PC-FBT16-	41.1	41.3	25.4	4400 (303)	2200 (151)

Adapters

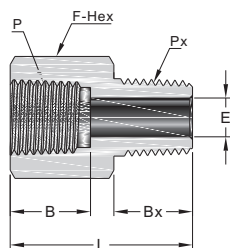


Female NPT Threads

Male NPT Threads

P-NPT Size	Px-NPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)	
			L	F	B	Bx	E	316 SS, Steel	Brass
1/8	1/16	FNPT2-TA-NPT1-	27.7	14.3	10.4	9.7	3.0	6500 (447)	3200 (220)
1/8	1/8	FNPT2-TA-NPT2-	27.9	14.3	10.4	9.7	4.8	6500 (447)	3200 (220)
1/4	1/16	FNPT4-TA-NPT1-	30.5	19.1	15.0	9.7	3.0	6600 (454)	3300 (227)
1/4	1/8	FNPT4-TA-NPT2-	32.0	19.1	15.0	9.7	4.8	6600 (454)	3300 (227)
1/4	1/4	FNPT4-TA-NPT4-	35.6	19.1	15.0	14.2	7.1	6600 (454)	3300 (227)
3/8	1/16	FNPT6-TA-NPT1-	31.8	22.2	15.0	9.7	3.0	5300 (365)	2600 (179)
3/8	1/8	FNPT6-TA-NPT2-	33.8	22.2	15.0	9.7	4.8	5300 (365)	2600 (179)
3/8	1/4	FNPT6-TA-NPT4-	38.1	22.2	15.0	14.2	7.1	5300 (365)	2600 (179)
3/8	3/8	FNPT6-TA-NPT6-	38.4	22.2	15.0	14.2	9.7	5300 (365)	2600 (179)
1/2	1/8	FNPT8-TA-NPT2-	40.1	27.0	19.8	9.7	4.8	4900 (337)	2400 (165)
1/2	1/4	FNPT8-TA-NPT4-	44.7	27.0	19.8	14.2	7.1	4900 (337)	2400 (165)
1/2	3/8	FNPT8-TA-NPT6-	44.4	27.0	19.8	14.2	9.6	4900 (337)	2400 (165)
1/2	1/2	FNPT8-TA-NPT8-	49.3	27.0	19.8	19.1	11.9	4900 (337)	2400 (165)
3/4	1/8	FNPT12-TA-NPT2-	39.6	33.3	20.6	9.7	4.8	4600 (316)	2300 (158)
3/4	1/4	FNPT12-TA-NPT4-	47.0	33.3	20.6	14.2	7.1	4600 (316)	2300 (158)
3/4	3/8	FNPT12-TA-NPT6-	46.2	33.3	20.6	14.2	9.7	4600 (316)	2300 (158)
3/4	1/2	FNPT12-TA-NPT8-	51.3	33.3	20.6	19.1	11.9	4600 (316)	2300 (158)
3/4	3/4	FNPT12-TA-NPT12-	51.3	33.3	20.6	19.1	15.7	4600 (316)	2300 (158)
1	1/8	FNPT16-TA-NPT2-	46.0	41.3	25.4	9.7	4.8	4400 (303)	2200 (151)
1	1/4	FNPT16-TA-NPT4-	49.8	41.3	25.4	14.2	7.1	4400 (303)	2200 (151)
1	3/8	FNPT16-TA-NPT6-	50.8	41.3	25.4	14.2	9.7	4400 (303)	2200 (151)
1	1/2	FNPT16-TA-NPT8-	54.9	41.3	25.4	19.1	11.9	4400 (303)	2200 (151)
1	3/4	FNPT16-TA-NPT12-	55.1	41.3	25.4	19.1	15.7	4400 (303)	2200 (151)
1	1	FNPT16-TA-NPT16-	57.9	41.3	25.4	23.9	22.4	4400 (303)	2200 (151)
1 1/4	1	FNPT20-TA-NPT16-	62.7	54.0	25.4	23.9	22.4	5000 (344)	2500 (172)
Heavy-Wall Female to male NPT Threads									
1/4	1/4	FNPT4-TA1-NPT4-	36.3	25.4	15.0	14.2	5.8	10000 (689)	/
1/2	1/4	FNPT8-TA1-NPT4-	46.0	38.1	19.8	14.2	5.8	10000 (689)	/
1/2	1/2	FNPT8-TA1-NPT8-	51.3	38.1	19.8	19.1	9.9	10000 (689)	/

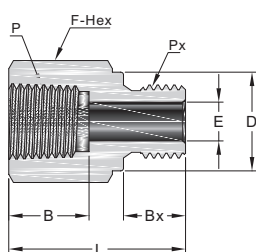
Adapters



Female NPT Threads

Male ISO Tapered Threads

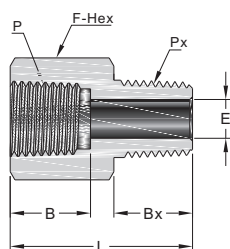
P-NPT Size	Px-BSPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)	
			L	F	B	Bx	E	316 SS, Steel	Brass
1/8	1/8	FNPT2-TA-MBT2-	27.7	14.3	10.4	9.7	4.8	6500 (447)	3200 (220)
1/4	1/4	FNPT4-TA-MBT4-	36.1	19.1	15.0	14.2	7.1	6600 (454)	3300 (227)
3/8	3/8	FNPT6-TA-MBT6-	38.1	22.2	15.0	14.2	9.7	5300 (365)	2600 (179)
1/2	1/2	FNPT8-TA-MBT8-	49.3	27.0	19.8	19.1	11.9	4900 (337)	2400 (165)
3/4	3/4	FNPT12-TA-MBT12-	51.3	33.3	20.6	19.1	15.7	4600 (316)	2300 (158)
1	1	FNPT16-TA-MBT16-	58.4	41.3	25.4	23.9	22.4	4400 (303)	2200 (151)



Female NPT Threads

Male ISO Parallel Threads

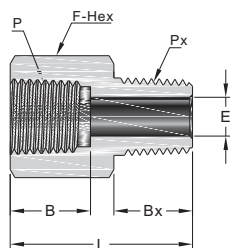
P-NPT Size	Px-BS Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
			L	F	B	Bx	D	E	316 SS, Steel	Brass
1/8	1/8	FNPT2-TA-MBS2-	25.1	14.3	9.9	7.1	13.7	4.1	6500 (447)	3200 (220)
1/4	1/4	FNPT4-TA-MBS4-	33.5	19.1	10.4	11.2	18.0	5.8	6600 (454)	3300 (227)
3/8	3/8	FNPT6-TA-MBS6-	35.8	22.2	15.0	11.2	21.6	7.9	5300 (365)	2600 (179)
1/2	1/2	FNPT8-TA-MBS8-	44.2	27.0	15.0	14.2	25.9	11.9	4900 (337)	2400 (165)
3/4	3/4	FNPT12-TA-MBS12-	48.0	33.3	20.6	15.7	32.0	15.7	4600 (316)	2300 (158)
1	1	FNPT16-TA-MBS16-	53.3	41.3	25.4	18.3	38.9	19.8	4400 (303)	2200 (151)



Female ISO Tapered Threads

Male ISO Tapered Threads

P-BSPT Size	Px-BSPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)	
			L	F	B	Bx	E	316 SS, Steel	Brass
1/8	1/8	FBT2-TA-MBT2-	27.7	14.3	10.4	9.7	4.8	6500 (447)	3200 (220)
1/4	1/8	FBT4-TA-MBT2-	32.0	19.1	15.0	9.7	4.8	6600 (454)	3300 (227)
1/4	1/4	FBT4-TA-MBT4-	36.1	19.1	15.0	14.2	7.1	6600 (454)	3300 (227)
3/8	1/4	FBT6-TA-MBT4-	38.1	22.2	15.0	14.2	7.1	5300 (365)	2600 (179)
3/8	3/8	FBT6-TA-MBT6-	38.1	22.2	15.0	14.2	9.7	5300 (365)	2600 (179)
1/2	1/4	FBT8-TA-MBT4-	44.7	27.0	19.8	14.2	7.1	4900 (337)	2400 (165)
1/2	3/8	FBT8-TA-MBT6-	44.4	27.0	19.8	14.2	9.7	4900 (337)	2400 (165)
1/2	1/2	FBT8-TA-MBT8-	49.5	27.0	19.8	19.1	11.9	4900 (337)	2400 (165)
3/4	3/4	FBT12-TA-MBT12-	51.3	33.3	20.6	19.1	15.7	4600 (316)	2300 (158)
1	1	FBT16-TA-MBT16-	58.4	41.3	25.4	23.9	22.4	4400 (303)	2200 (151)

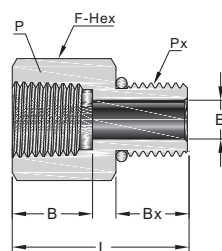


Female ISO Tapered Threads

Male NPT Threads

P-BSPT Size	Px-NPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)	
			L	F	B	Bx	E	316 SS, Steel	Brass
1/8	1/8	FBT2-TA-NPT2-	27.7	14.3	10.4	9.7	4.8	6500 (447)	3200 (220)
1/4	1/4	FBT4-TA-NPT4-	36.3	19.1	15.0	14.2	7.1	6600 (454)	3300 (227)
3/8	3/8	FBT6-TA-NPT6-	38.4	22.2	15.0	14.2	9.6	5300 (365)	2600 (179)
1/2	1/2	FBT8-TA-NPT8-	49.8	27.0	19.8	19.1	11.9	4900 (337)	2400 (165)
3/4	3/4	FBT12-TA-NPT12-	51.3	33.3	20.6	19.1	15.7	4600 (316)	2300 (158)
1	1	FBT16-TA-NPT16-	58.4	41.3	25.4	23.9	22.4	4400 (303)	2200 (151)

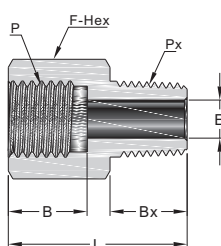
Adapters



Female NPT Threads

Male SAE/MS Straight Threads

P-NPT Size	Px-SAE/MS Thread Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar) 316 SS, Steel
			L	F	B	Bx	E	
1/4	7/16-20	FNPT4-TA-OST7-	33.5	19.1	15.0	9.1	5.1	4500 (310)
3/8	9/16-18	FNPT6-TA-OST9-	35.3	23.8	15.0	9.9	7.1	4500 (310)
1/2	3/4-16	FNPT8-TA-OST12-	44.7	27.0	19.8	11.2	10.7	4500 (310)
3/4	1 1/16-12	FNPT12-TA-OST17-	50.5	34.9	20.6	15.0	16.7	3600 (248)
1	1 5/16-12	FNPT16-TA-OST21-	53.8	41.3	25.4	15.0	22.4	2900 (199)

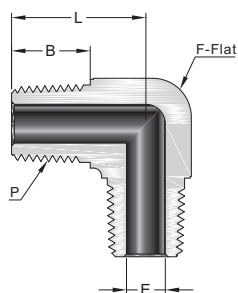


Female ISO Parallel Threads

Male NPT Threads

P-BG Size	Px-NPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar) 316 SS, Steel
			L	F	B	Bx	E	
1/8	1/8	FBP2-TA-NPT2-	21.8	14.3	6.5	9.7	4.8	6100 (420)
1/4	1/4	FBP4-TA-NPT4-	30.2	19.1	12.9	14.2	5.6	5700 (392)
3/8	3/8	FBP6-TA-NPT6-	32.2	23.8	14.2	14.2	6.6	5700 (392)
1/2	1/2	FBP8-TA-NPT8-	42.7	27.0	18.8	19.1	7.1	3900 (268)

Male Elbows



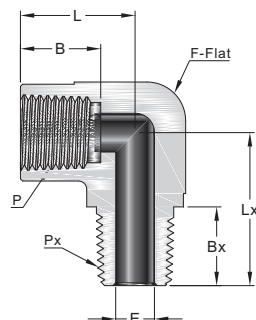
Male NPT Threads

P-NPT Size	Basic Ordering Number	Dimension, mm				Working Pressure psig (bar)	
		L	F	B	E	316 SS, Steel	Brass
1/16	NPT1-TME-NPT1-	18.3	9.5	9.7	3.0	11000 (757)	5500 (378)
1/8	NPT2-TME-NPT2-	22.4	11.1	9.7	4.8	10000 (689)	5000 (344)
1/4	NPT4-TME-NPT4-	26.7	12.7	14.2	7.1	8000 (551)	4000 (275)
3/8	NPT6-TME-NPT6-	29.7	17.5	14.2	9.6	7800 (537)	3900 (268)
1/2	NPT8-TME-NPT8-	36.8	20.6	19.1	11.9	7700 (530)	3800 (261)
3/4	NPT12-TME-NPT12-	40.4	27.0	19.1	15.7	7300 (502)	3600 (248)
1	NPT16-TME-NPT16-	50.0	34.9	23.9	22.4	5300 (365)	2600 (179)

Male ISO Tapered Pipe Threads

P-BSPT Size	Basic Ordering Number	Dimension, mm				Working Pressure psig (bar)	
		L	F	B	E	316 SS, Steel	Brass
1/16	MBT1-TME-MBT1-	18.3	9.5	9.7	3.0	11000 (757)	5500 (378)
1/8	MBT2-TME-MBT2-	22.4	11.1	9.7	4.8	10000 (689)	5000 (344)
1/4	MBT4-TME-MBT4-	26.7	12.7	14.2	7.1	8000 (551)	4000 (275)
3/8	MBT6-TME-MBT6-	29.7	17.5	14.2	9.7	7800 (537)	3900 (268)
1/2	MBT8-TME-MBT8-	36.8	20.6	19.1	11.9	7700 (530)	3800 (261)
3/4	MBT12-TME-MBT12-	40.4	27.0	19.1	15.7	7300 (502)	3600 (248)
1	MBT16-TME-MBT16-	50.0	34.9	23.9	22.4	5300 (365)	2600 (179)

Street Elbows

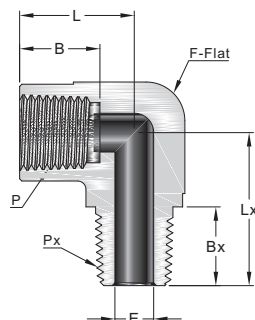


Female NPT Threads

Male NPT Threads

P-NPT Size	Px-NPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
			L	F	B	E	Lx	Bx	316 SS, Steel	Brass
1/16	1/16	FNPT1-TSE-NPT1-	21.8	11.1	9.9	3.0	22.4	9.7	9200 (633)	4600 (316)
1/16	1/8	FNPT1-TSE-NPT2-	21.8	11.1	9.9	4.8	22.4	9.7	9200 (633)	4600 (316)
1/16	1/4	FNPT1-TSE-NPT4-	22.4	14.3	9.9	4.8	27.7	14.2	8000 (551)	4000 (275)
1/16	3/8	FNPT1-TSE-NPT6-	22.4	17.5	9.9	4.8	29.7	14.2	7800 (537)	3900 (268)
1/8	1/16	FNPT2-TSE-NPT1-	26.4	12.7	10.4	3.0	22.1	9.7	6200 (426)	3100 (213)
1/8	1/8	FNPT2-TSE-NPT2-	26.4	12.7	10.4	4.8	22.1	9.7	6200 (426)	3100 (213)
1/8	1/4	FNPT2-TSE-NPT4-	22.4	14.3	10.4	7.1	27.7	14.2	6500 (447)	3200 (220)
1/8	3/8	FNPT2-TSE-NPT6-	22.4	17.5	10.4	7.1	29.7	14.2	7800 (537)	3900 (268)
1/8	1/2	FNPT2-TSE-NPT8-	24.1	20.6	10.4	7.1	36.8	19.1	7700 (530)	3800 (261)
1/8	3/4	FNPT2-TSE-NPT12-	25.4	27.0	10.4	7.1	40.4	19.1	7300 (502)	3600 (248)
1/8	1	FNPT2-TSE-NPT16-	26.4	34.9	10.4	7.1	50.0	23.9	5300 (365)	2600 (179)
1/4	1/8	FNPT4-TSE-NPT2-	29.7	17.5	15.0	4.8	25.4	9.7	7200 (496)	3600 (248)
1/4	1/4	FNPT4-TSE-NPT4-	29.7	17.5	15.0	7.1	29.7	14.2	7200 (496)	3600 (248)
1/4	3/8	FNPT4-TSE-NPT6-	29.7	17.5	15.0	8.6	29.7	14.2	7200 (496)	3600 (248)
1/4	1/2	FNPT4-TSE-NPT8-	25.4	20.6	15.0	8.6	36.8	19.1	7200 (496)	3600 (248)
1/4	3/4	FNPT4-TSE-NPT12-	25.4	27.0	15.0	8.6	40.4	19.1	7300 (502)	3600 (248)
1/4	1	FNPT4-TSE-NPT16-	41.4	34.9	15.0	8.6	50.0	23.9	5300 (365)	2600 (179)
3/8	1/4	FNPT6-TSE-NPT4-	36.1	20.6	15.0	7.1	32.0	14.2	5600 (385)	2800 (192)
3/8	3/8	FNPT6-TSE-NPT6-	36.1	20.6	15.0	9.6	32.0	14.2	5600 (385)	2800 (192)
3/8	1/2	FNPT6-TSE-NPT8-	36.1	20.6	15.0	11.9	36.8	19.1	5600 (385)	2800 (192)
3/8	3/4	FNPT6-TSE-NPT12-	31.2	27.0	15.0	11.9	40.4	19.1	7300 (502)	3600 (248)
3/8	1	FNPT6-TSE-NPT16-	41.4	34.9	15.0	11.9	50.0	23.9	5300 (365)	2600 (179)
1/2	1/4	FNPT8-TSE-NPT4-	39.6	25.4	19.8	7.1	35.1	14.2	5600 (385)	2800 (192)
1/2	3/8	FNPT8-TSE-NPT6-	39.6	25.4	19.8	9.6	35.1	14.2	5600 (385)	2800 (192)
1/2	1/2	FNPT8-TSE-NPT8-	39.6	25.4	19.8	11.9	39.6	19.1	5600 (385)	2800 (192)
1/2	3/4	FNPT8-TSE-NPT12-	31.2	27.0	19.8	15.7	40.4	19.1	5600 (385)	2800 (192)
1/2	1	FNPT8-TSE-NPT16-	41.4	34.9	19.8	15.7	50.0	23.9	5300 (365)	2600 (179)
3/4	3/4	FNPT12-TSE-NPT12-	48.8	31.8	20.6	15.7	42.4	19.1	5100 (351)	2500 (172)
3/4	1	FNPT12-TSE-NPT16-	41.4	34.9	20.6	22.4	50.0	23.9	5100 (351)	2500 (172)
1	1	FNPT16-TSE-NPT16-	48.5	42.9	25.4	22.4	49.3	23.9	5300 (365)	2600 (179)
1 1/4	1 1/4	FNPT20-TSE-NPT20-	60.5	50.8	25.4	31.8	60.5	23.9	3100 (213)	1600 (110)

Street Elbows

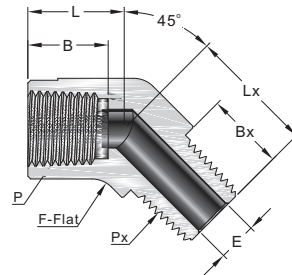


Female ISO Tapered Pipe Threads

Male ISO Tapered Threads

P-BSPT Size	Px-BSPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
			L	F	B	E	Lx	Bx	316 SS, Steel	Brass
1/16	1/16	FBT1-TSE-MBT1-	21.8	11.1	9.9	3.0	22.4	9.7	9200 (633)	4600 (316)
1/16	1/8	FBT1-TSE-MBT2-	21.8	11.1	9.9	4.8	22.4	9.7	9200 (633)	4600 (316)
1/16	1/4	FBT1-TSE-MBT4-	22.4	14.3	9.9	4.8	27.7	14.2	8000 (551)	4000 (275)
1/16	3/8	FBT1-TSE-MBT6-	22.4	17.5	9.9	4.8	29.7	14.2	7800 (537)	3900 (268)
1/8	1/16	FBT2-TSE-MBT1-	26.4	12.7	10.4	3.0	22.1	9.7	6200 (426)	3100 (213)
1/8	1/8	FBT2-TSE-MBT2-	26.4	12.7	10.4	4.8	22.1	9.7	6200 (426)	3100 (213)
1/8	1/4	FBT2-TSE-MBT4-	22.4	14.3	10.4	7.1	27.7	14.2	6500 (447)	3200 (220)
1/8	3/8	FBT2-TSE-MBT6-	22.4	17.5	10.4	7.1	29.7	14.2	7800 (537)	3900 (268)
1/8	1/2	FBT2-TSE-MBT8-	24.1	20.6	10.4	7.1	36.8	19.1	7700 (530)	3800 (261)
1/8	3/4	FBT2-TSE-MBT12-	25.4	27.0	10.4	7.1	40.4	19.1	7300 (502)	3600 (248)
1/8	1	FBT2-TSE-MBT16-	26.4	34.9	10.4	7.1	50.0	23.9	5300 (365)	2600 (179)
1/4	1/8	FBT4-TSE-MBT2-	29.7	17.5	15.0	4.8	25.4	9.7	7200 (496)	3600 (248)
1/4	1/4	FBT4-TSE-MBT4-	29.7	17.5	15.0	7.1	29.7	14.2	7200 (496)	3600 (248)
1/4	3/8	FBT4-TSE-MBT6-	29.7	17.5	15.0	8.6	29.7	14.2	7200 (496)	3600 (248)
1/4	1/2	FBT4-TSE-MBT8-	25.4	20.6	15.0	8.6	36.8	19.1	7200 (496)	3600 (248)
1/4	3/4	FBT4-TSE-MBT12-	25.4	27.0	15.0	8.6	40.4	19.1	7300 (502)	3600 (248)
1/4	1	FBT4-TSE-MBT16-	41.4	34.9	15.0	8.6	50.0	23.9	5300 (365)	2600 (179)
3/8	1/4	FBT6-TSE-MBT4-	36.1	20.6	15.0	7.1	32.0	14.2	5600 (385)	2800 (192)
3/8	3/8	FBT6-TSE-MBT6-	36.1	20.6	15.0	9.7	32.0	14.2	5600 (385)	2800 (192)
3/8	1/2	FBT6-TSE-MBT8-	36.1	20.6	15.0	11.9	36.8	19.1	5600 (385)	2800 (192)
3/8	3/4	FBT6-TSE-MBT12-	31.2	27.0	15.0	11.9	40.4	19.1	7300 (502)	3600 (248)
3/8	1	FBT6-TSE-MBT16-	41.4	34.9	15.0	11.9	50.0	23.9	5300 (365)	2600 (179)
1/2	1/4	FBT8-TSE-MBT4-	39.6	25.4	19.8	7.1	35.1	14.2	5600 (385)	2800 (192)
1/2	3/8	FBT8-TSE-MBT6-	39.6	25.4	19.8	9.7	35.1	14.2	5600 (385)	2800 (192)
1/2	1/2	FBT8-TSE-MBT8-	39.6	25.4	19.8	11.9	39.6	19.1	5600 (385)	2800 (192)
1/2	3/4	FBT8-TSE-MBT12-	31.2	27.0	19.8	15.7	40.4	19.1	5600 (385)	2800 (192)
1/2	1	FBT8-TSE-MBT16-	41.4	34.9	19.8	15.7	50.0	23.9	5300 (365)	2600 (179)
3/4	3/4	FBT12-TSE-MBT12-	48.8	31.8	20.6	15.7	42.4	19.1	5100 (351)	2500 (172)
3/4	1	FBT12-TSE-MBT16-	41.4	34.9	20.6	22.4	50.0	23.9	5100 (351)	2500 (172)
1	1	FBT16-TSE-MBT16-	48.5	42.9	25.4	22.4	49.3	23.9	5300 (365)	2600 (179)
1 1/4	1 1/4	FBT20-TSE-MBT20-	60.5	50.8	25.4	31.8	60.5	23.9	3100 (213)	1600 (110)

45° Street Elbows

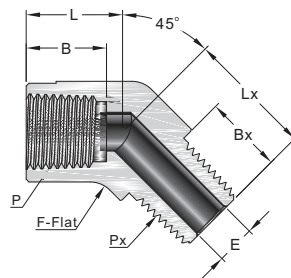


Female NPT Threads

Male NPT Threads

P-NPT Size	Px-NPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
			L	F	B	E	Lx	Bx	316 SS, Steel	Brass
1/16	1/16	FNPT1-T45E-NPT1-	16.8	11.1	9.9	3.0	16.8	9.7	9200 (633)	4600 (316)
1/16	1/8	FNPT1-T45E-NPT2-	16.8	11.1	9.9	4.8	16.8	9.7	9200 (633)	4600 (316)
1/16	1/4	FNPT1-T45E-NPT4-	16.8	14.3	9.9	4.8	21.8	14.2	8000 (551)	4000 (275)
1/16	3/8	FNPT1-T45E-NPT6-	22.4	17.5	9.9	4.8	23.8	14.2	7800 (537)	3900 (268)
1/8	1/16	FNPT2-T45E-NPT1-	20.2	12.7	10.4	3.0	17.2	9.7	6200 (426)	3100 (213)
1/8	1/8	FNPT2-T45E-NPT2-	20.2	12.7	10.4	4.8	17.2	9.7	6200 (426)	3100 (213)
1/8	1/4	FNPT2-T45E-NPT4-	16.8	14.3	10.4	7.1	21.8	14.2	6500 (447)	3200 (220)
1/8	3/8	FNPT2-T45E-NPT6-	22.4	17.5	10.4	7.1	23.8	14.2	7800 (537)	3900 (268)
1/8	1/2	FNPT2-T45E-NPT8-	22.2	20.6	10.4	7.1	29.0	19.1	7700 (530)	3800 (261)
1/8	3/4	FNPT2-T45E-NPT12-	25.4	27.0	10.4	7.1	30.5	19.1	7300 (502)	3600 (248)
1/8	1	FNPT2-T45E-NPT16-	26.4	34.9	10.4	7.1	49.3	23.9	5300 (365)	2600 (179)
1/4	1/8	FNPT4-T45E-NPT2-	25.4	17.5	15.0	4.8	19.3	9.7	7200 (496)	3600 (248)
1/4	1/4	FNPT4-T45E-NPT4-	25.4	17.5	15.0	7.1	19.3	14.2	7200 (496)	3600 (248)
1/4	3/8	FNPT4-T45E-NPT6-	25.4	17.5	15.0	8.6	23.8	14.2	7200 (496)	3600 (248)
1/4	1/2	FNPT4-T45E-NPT8-	22.2	20.6	15.0	8.6	29.0	19.1	7200 (496)	3600 (248)
1/4	3/4	FNPT4-T45E-NPT12-	25.4	27.0	15.0	8.6	30.5	19.1	7300 (502)	3600 (248)
1/4	1	FNPT4-T45E-NPT16-	32.0	34.9	15.0	8.6	37.6	23.9	5300 (365)	2600 (179)
3/8	1/4	FNPT6-T45E-NPT4-	27.0	20.6	15.0	7.1	24.2	14.2	5600 (385)	2800 (192)
3/8	3/8	FNPT6-T45E-NPT6-	27.0	20.6	15.0	9.7	24.2	14.2	5600 (385)	2800 (192)
3/8	1/2	FNPT6-T45E-NPT8-	27.0	20.6	15.0	11.9	29.0	19.1	5600 (385)	2800 (192)
3/8	3/4	FNPT6-T45E-NPT12-	27.0	27.0	15.0	11.9	30.5	19.1	7300 (502)	3600 (248)
3/8	1	FNPT6-T45E-NPT16-	32.0	34.9	15.0	11.9	37.6	23.9	5300 (365)	2600 (179)
1/2	1/4	FNPT8-T45E-NPT4-	32.0	25.4	19.8	7.1	25.2	14.2	5600 (385)	2800 (192)
1/2	3/8	FNPT8-T45E-NPT6-	32.0	25.4	19.8	9.7	25.2	14.2	5600 (385)	2800 (192)
1/2	1/2	FNPT8-T45E-NPT8-	32.0	25.4	19.8	11.9	32.0	19.1	5600 (385)	2800 (192)
1/2	3/4	FNPT8-T45E-NPT12-	32.5	27.0	19.8	15.7	30.5	19.1	5600 (385)	2800 (192)
1/2	1	FNPT8-T45E-NPT16-	37.6	34.9	19.8	15.7	37.6	23.9	5300 (365)	2600 (179)
3/4	3/4	FNPT12-T45E-NPT12-	34.5	31.8	20.6	15.7	34.5	19.1	5100 (351)	2500 (172)
3/4	1	FNPT12-T45E-NPT16-	37.6	34.9	20.6	22.4	37.6	23.9	5100 (351)	2500 (172)
1	1	FNPT16-T45E-NPT16-	46.0	42.9	25.4	22.4	46.0	23.9	5300 (365)	2600 (179)
1 1/4	1 1/4	FNPT20-T45E-NPT20-	50.8	50.8	25.4	31.8	50.8	23.9	3100 (213)	1600 (110)

45° Street Elbows

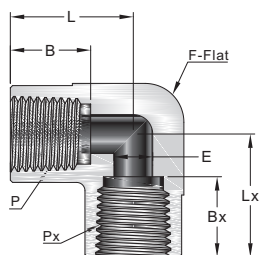


Female ISO Tapered Threads

Male ISO Tapered Threads

P-BSPT Size	Px-BSPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
			L	F	B	E	Lx	Bx	316 SS, Steel	Brass
1/16	1/16	FBT1-T45E-MBT1-	16.8	11.1	9.9	3.0	16.8	9.7	9200 (633)	4600 (316)
1/16	1/8	FBT1-T45E-MBT2-	16.8	11.1	9.9	4.8	16.8	9.7	9200 (633)	4600 (316)
1/16	1/4	FBT1-T45E-MBT4-	16.8	14.3	9.9	4.8	21.8	14.2	8000 (551)	4000 (275)
1/16	3/8	FBT1-T45E-MBT6-	22.4	17.5	9.9	4.8	23.8	14.2	7800 (537)	3900 (268)
1/8	1/16	FBT2-T45E-MBT1-	20.2	12.7	10.4	3.0	17.2	9.7	6200 (426)	3100 (213)
1/8	1/8	FBT2-T45E-MBT2-	20.2	12.7	10.4	4.8	17.2	9.7	6200 (426)	3100 (213)
1/8	1/4	FBT2-T45E-MBT4-	16.8	14.3	10.4	7.1	21.8	14.2	6500 (447)	3200 (220)
1/8	3/8	FBT2-T45E-MBT6-	22.4	17.5	10.4	7.1	23.8	14.2	7800 (537)	3900 (268)
1/8	1/2	FBT2-T45E-MBT8-	22.2	20.6	10.4	7.1	29.0	19.1	7700 (530)	3800 (261)
1/8	3/4	FBT2-T45E-MBT12-	25.4	27.0	10.4	7.1	30.5	19.1	7300 (502)	3600 (248)
1/8	1	FBT2-T45E-MBT16-	26.4	34.9	10.4	7.1	49.3	23.9	5300 (365)	2600 (179)
1/4	1/8	FBT4-T45E-MBT2-	25.4	17.5	15.0	4.8	19.3	9.7	7200 (496)	3600 (248)
1/4	1/4	FBT4-T45E-MBT4-	25.4	17.5	15.0	7.1	19.3	14.2	7200 (496)	3600 (248)
1/4	3/8	FBT4-T45E-MBT6-	25.4	17.5	15.0	8.6	23.8	14.2	7200 (496)	3600 (248)
1/4	1/2	FBT4-T45E-MBT8-	22.2	20.6	15.0	8.6	29.0	19.1	7200 (496)	3600 (248)
1/4	3/4	FBT4-T45E-MBT12-	25.4	27.0	15.0	8.6	30.5	19.1	7300 (502)	3600 (248)
1/4	1	FBT4-T45E-MBT16-	32.0	34.9	15.0	8.6	37.6	23.9	5300 (365)	2600 (179)
3/8	1/4	FBT6-T45E-MBT4-	27.0	20.6	15.0	7.1	24.2	14.2	5600 (385)	2800 (192)
3/8	3/8	FBT6-T45E-MBT6-	27.0	20.6	15.0	9.7	24.2	14.2	5600 (385)	2800 (192)
3/8	1/2	FBT6-T45E-MBT8-	27.0	20.6	15.0	11.9	29.0	19.1	5600 (385)	2800 (192)
3/8	3/4	FBT6-T45E-MBT12-	27.0	27.0	15.0	11.9	30.5	19.1	7300 (502)	3600 (248)
3/8	1	FBT6-T45E-MBT16-	32.0	34.9	15.0	11.9	37.6	23.9	5300 (365)	2600 (179)
1/2	1/4	FBT8-T45E-MBT4-	32.0	25.4	19.8	7.1	25.2	14.2	5600 (385)	2800 (192)
1/2	3/8	FBT8-T45E-MBT6-	32.0	25.4	19.8	9.7	25.2	14.2	5600 (385)	2800 (192)
1/2	1/2	FBT8-T45E-MBT8-	32.0	25.4	19.8	11.9	32.0	19.1	5600 (385)	2800 (192)
1/2	3/4	FBT8-T45E-MBT12-	32.5	27.0	19.8	15.7	30.5	19.1	5600 (385)	2800 (192)
1/2	1	FBT8-T45E-MBT16-	37.6	34.9	19.8	15.7	37.6	23.9	5300 (365)	2600 (179)
3/4	3/4	FBT12-T45E-MBT12-	34.5	31.8	20.6	15.7	34.5	19.1	5100 (351)	2500 (172)
3/4	1	FBT12-T45E-MBT16-	37.6	34.9	20.6	22.4	37.6	23.9	5100 (351)	2500 (172)
1	1	FBT16-T45E-MBT16-	46.0	42.9	25.4	22.4	46.0	23.9	5300 (365)	2600 (179)
1 1/4	1 1/4	FBT20-T45E-MBT20-	50.8	50.8	25.4	31.8	50.8	23.9	3100 (213)	1600 (110)

Female Elbows



Female FNPT Threads

P-FNPT Size	Px-FNPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
			L	F	B	E	Lx	Bx	316 SS, Steel	Brass
1/16	1/16	FNPT1-TFE-FNPT1-	21.8	11.1	9.9	4.8	21.8	9.9	6700 (460)	3300 (227)
1/8	1/16	FNPT2-TFE-FNPT1-	26.4	12.7	10.4	4.8	26.4	9.9	6200 (427)	3100 (213)
1/8	1/8	FNPT2-TFE-FNPT2-	26.4	12.7	10.4	8.6	26.4	10.4	6200 (427)	3100 (213)
1/4	1/8	FNPT4-TFE-FNPT2-	29.7	17.5	15.0	7.1	29.7	10.4	7200 (496)	3600 (248)
1/4	1/4	FNPT4-TFE-FNPT4-	29.7	17.5	15.0	11.4	29.7	15.0	7200 (496)	3600 (248)
3/8	3/8	FNPT6-TFE-FNPT6-	36.1	20.6	15.0	15.0	36.1	15.0	5600 (385)	2800 (192)
1/2	1/2	FNPT8-TFE-FNPT8-	39.6	25.4	19.8	18.5	39.6	19.8	5600 (385)	2800 (192)
3/4	3/4	FNPT12-TFE-FNPT12-	48.8	31.8	20.6	23.9	48.8	20.6	5100 (351)	2500 (172)
1	1	FNPT16-TFE-FNPT16-	48.5	42.9	25.4	29.7	48.5	25.4	6400 (440)	3200 (220)
1 1/4	1 1/4	FNPT20-TFE-FNPT20-	59.8	50.8	25.4	27.7	50.8	25.4	3100 (213)	1600 (110)
1 1/2	1 1/2	FNPT24-TFE-FNPT24-	65.0	63.5	27.7	34.0	52.8	27.7	5100 (351)	2500 (172)

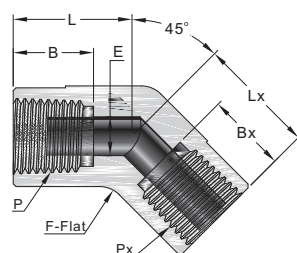
Heavy-Wall Female NPT Threads

1/4	1/4	FNPT4-TFE1-FNPT4-	39.6	25.4	15.0	11.4	29.7	15.0	10000 (689)	—
1/2	1/2	FNPT8-TFE1-FNPT8-	50.0	42.9	19.8	18.5	39.6	19.8	10000 (689)	—

Female ISO Tapered Threads

P-BSPT Size	Px-BSPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
			L	F	B	E	Lx	Bx	316 SS, Steel	Brass
1/16	1/16	FBT1-TFE-FBT1-	21.8	11.1	9.9	4.8	21.6	9.9	6700 (460)	3300 (227)
1/8	1/16	FBT2-TFE-FBT1-	16.8	12.7	10.4	4.8	16.8	9.9	6200 (427)	3100 (213)
1/8	1/8	FBT2-TFE-FBT2-	26.4	12.7	10.4	7.1	26.4	10.4	6200 (427)	3100 (213)
1/4	1/8	FBT4-TFE-FBT2-	29.7	17.5	15.0	7.1	29.7	10.4	7200 (496)	3600 (248)
1/4	1/4	FBT4-TFE-FBT4-	29.7	17.5	15.0	10.4	29.7	15.0	7200 (496)	3600 (248)
3/8	3/8	FBT6-TFE-FBT6-	36.1	20.6	15.0	12.7	36.1	15.0	5600 (385)	2800 (192)
1/2	1/2	FBT8-TFE-FBT8-	39.6	25.4	19.8	15.7	39.6	19.8	5600 (385)	2800 (192)
3/4	3/4	FBT12-TFE-FBT12-	48.8	31.8	20.6	22.4	48.8	20.6	5100 (351)	2500 (172)
1	1	FBT16-TFE-FBT16-	48.5	42.9	25.4	22.4	48.5	25.4	6400 (440)	3200 (220)
1 1/4	1 1/4	FBT20-TFE-FBT20-	59.8	50.8	25.4	27.7	50.8	25.4	3100 (213)	1600 (110)
1 1/2	1 1/2	FBT24-TFE-FBT24-	65.0	63.5	27.7	34.0	52.8	27.7	5100 (351)	2500 (172)

45° Female Elbows



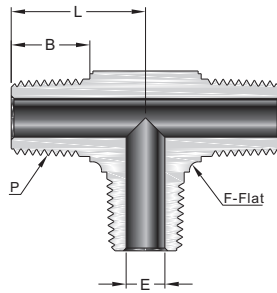
Female NPT Threads

P-NPT Size	Px-NPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
			L	F	B	E	Lx	Bx	316 SS, Steel	Brass
1/16	1/16	FNPT1-T45FE-FNPT1-	16.8	11.1	9.9	4.8	16.8	9.9	6700 (460)	3300 (227)
1/8	1/16	FNPT2-T45FE-FNPT1-	20.2	12.7	10.4	4.8	20.2	9.9	6200 (427)	3100 (213)
1/8	1/8	FNPT2-T45FE-FNPT2-	20.2	12.7	10.4	7.1	20.2	10.4	6200 (427)	3100 (213)
1/4	1/8	FNPT4-T45FE-FNPT2-	25.4	17.5	15.0	7.1	25.4	10.4	7200 (496)	3600 (248)
1/4	1/4	FNPT4-T45FE-FNPT4-	25.4	17.5	15.0	10.4	25.4	15.0	7200 (496)	3600 (248)
3/8	3/8	FNPT6-T45FE-FNPT6-	27.0	20.6	15.0	12.7	27.0	15.0	5600 (385)	2800 (192)
1/2	1/2	FNPT8-T45FE-FNPT8-	32.0	25.4	19.8	15.7	32.0	19.8	5600 (385)	2800 (192)
3/4	3/4	FNPT12-T45FE-FNPT12-	34.5	31.8	20.6	22.4	34.5	20.6	5100 (351)	2500 (172)
1	1	FNPT16-T45FE-FNPT16-	46.0	42.9	25.4	22.4	46.0	25.4	6400 (440)	3200 (220)
1 1/4	1 1/4	FNPT20-T45FE-FNPT20-	43.2	50.8	25.4	27.7	43.2	25.4	3100 (213)	1600 (110)
1 1/2	1 1/2	FNPT24-T45FE-FNPT24-	46.0	63.5	27.7	34.0	46.0	27.7	5100 (351)	2500 (172)

Female ISO Tapered Pipe Threads

P-BSPT Size	Px-BSPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
			L	F	B	E	Lx	Bx	316 SS, Steel	Brass
1/16	1/16	FBT1-T45FE-FBT1-	16.8	11.1	9.9	4.8	16.8	9.9	6700 (460)	3300 (227)
1/8	1/16	FBT2-T45FE-FBT1-	20.2	12.7	10.4	4.8	20.2	9.9	6200 (427)	3100 (213)
1/8	1/8	FBT2-T45FE-FBT2-	20.2	12.7	10.4	7.1	20.2	10.4	6200 (427)	3100 (213)
1/4	1/8	FBT4-T45FE-FBT2-	25.4	17.5	15.0	7.1	25.4	10.4	7200 (496)	3600 (248)
1/4	1/4	FBT4-T45FE-FBT4-	25.4	17.5	15.0	10.4	25.4	15.0	7200 (496)	3600 (248)
3/8	3/8	FBT6-T45FE-FBT6-	27.0	20.6	15.0	12.7	27.0	15.0	5600 (385)	2800 (192)
1/2	1/2	FBT8-T45FE-FBT8-	32.0	25.4	19.8	15.7	32.0	19.8	5600 (385)	2800 (192)
3/4	3/4	FBT12-T45FE-FBT12-	34.5	31.8	20.6	22.4	34.5	20.6	5100 (351)	2500 (172)
1	1	FBT16-T45FE-FBT16-	46.0	42.9	25.4	22.4	46.0	25.4	6400 (440)	3200 (220)
1 1/4	1 1/4	FBT20-T45FE-FBT20-	43.2	50.8	25.4	27.7	43.2	25.4	3100 (213)	1600 (110)
1 1/2	1 1/2	FBT24-T45FE-FBT24-	46.0	63.5	27.7	34.0	46.0	27.7	5100 (351)	2500 (172)

Male Tees



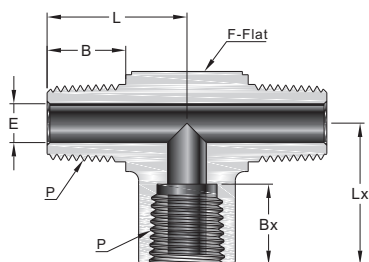
Male NPT Threads

P-NPT Size	Basic Ordering Number	Dimension, mm				Working Pressure psig (bar)	
		L	F	B	E	316 SS, Steel	Brass
1/16	NPT1-TMT-NPT1-NPT1-	18.3	9.5	9.7	3.0	11000 (757)	5500 (378)
1/8	NPT2-TMT-NPT2-NPT2-	22.4	11.1	9.7	4.8	10000 (689)	5000 (344)
1/4	NPT4-TMT-NPT4-NPT4-	26.7	12.7	14.2	7.1	8000 (551)	4000 (275)
3/8	NPT6-TMT-NPT6-NPT6-	29.7	17.5	14.2	9.6	7800 (537)	3900 (268)
1/2	NPT8-TMT-NPT8-NPT8-	36.8	20.6	19.1	11.9	7700 (530)	3800 (261)
3/4	NPT12-TMT-NPT12-NPT12-	42.4	27.0	19.1	15.7	7300 (502)	3600 (248)
1	NPT16-TMT-NPT16-NPT16-	49.3	34.9	23.9	22.4	5300 (365)	2600 (179)
1 1/4	NPT20-TMT-NPT20-NPT20-	56.4	42.9	23.9	27.7	6000 (410)	3000 (200)
1 1/2	NPT24-TMT-NPT24-NPT24-	67.1	47.6	26.2	34.0	5000 (344)	2500 (172)

Male ISO Tapered Threads

P-BSPT Size	Basic Ordering Number	Dimension, mm				Working Pressure psig (bar)	
		L	F	B	E	316 SS, Steel	Brass
1/16	MBT1-TMT-MBT1-MBT1-	18.3	9.5	9.7	3.0	11000 (757)	5500 (378)
1/8	MBT2-TMT-MBT2-MBT2-	22.4	11.1	9.7	4.8	10000 (689)	5000 (344)
1/4	MBT4-TMT-MBT4-MBT4-	26.7	12.7	14.2	7.1	8000 (551)	4000 (275)
3/8	MBT6-TMT-MBT6-MBT6-	29.7	17.5	14.2	9.7	7800 (537)	3900 (268)
1/2	MBT8-TMT-MBT8-MBT8-	36.8	20.6	19.1	11.9	7700 (530)	3800 (261)
3/4	MBT12-TMT-MBT12-MBT12-	42.4	27.0	19.1	15.7	7300 (502)	3600 (248)
1	MBT16-TMT-MBT16-MBT16-	49.3	34.9	23.9	22.4	5300 (365)	2600 (179)
1 1/4	MBT20-TMT-MBT20-MBT20-	56.4	42.9	23.9	27.7	6000 (410)	3000 (200)
1 1/2	MBT24-TMT-MBT24-MBT24-	67.1	47.6	26.2	34.0	5000 (344)	2500 (172)

Female Branch Tees



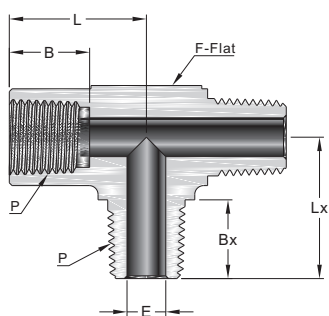
NPT Threads

P-NPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
		L	F	E	B	Lx	Bx	316 SS, Steel	Brass
1/16	NPT1-TFBT-NPT1-FNPT1-	18.3	11.1	3.0	9.7	21.8	9.9	9200 (633)	4600 (316)
1/8	NPT2-TFBT-NPT2-FNPT2-	22.1	12.7	4.8	9.7	26.4	10.4	6200 (427)	3100 (213)
1/4	NPT4-TFBT-NPT4-FNPT4-	29.7	17.5	7.1	14.2	29.7	15.0	7200 (496)	3600 (248)
3/8	NPT6-TFBT-NPT6-FNPT6-	32.0	20.6	9.7	14.2	36.1	15.0	5600 (385)	2800 (192)
1/2	NPT8-TFBT-NPT8-FNPT8-	39.6	25.4	11.9	19.1	39.6	19.8	5600 (385)	2800 (192)
3/4	NPT12-TFBT-NPT12-FNPT12-	42.4	31.8	15.7	19.1	48.8	20.6	5100 (351)	2500 (172)
1	NPT16-TFBT-NPT16-FNPT16-	49.3	42.9	22.4	23.9	48.5	25.4	5300 (365)	2600 (179)

ISO Tapered Pipe Threads

P-BSPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
		L	F	E	B	Lx	Bx	316 SS, Steel	Brass
1/16	MBT1-TFBT-MBT1-FBT1-	18.3	11.1	3.0	9.7	21.8	9.9	9200 (633)	4600 (316)
1/8	MBT2-TFBT-MBT2-FBT2-	22.1	12.7	4.8	9.7	26.4	10.4	6200 (427)	3100 (213)
1/4	MBT4-TFBT-MBT4-FBT4-	29.7	17.5	7.1	14.2	29.7	15.0	7200 (496)	3600 (248)
3/8	MBT6-TFBT-MBT6-FBT6-	32.0	20.6	9.7	14.2	36.1	15.0	5600 (385)	2800 (192)
1/2	MBT8-TFBT-MBT8-FBT8-	39.6	25.4	11.9	19.1	39.6	19.8	5600 (385)	2800 (192)
3/4	MBT12-TFBT-MBT12-FBT12-	42.4	31.8	15.7	19.1	48.8	20.6	5100 (351)	2500 (172)
1	MBT16-TFBT-MBT16-FBT16-	49.3	42.9	22.4	23.9	48.5	25.4	5300 (365)	2600 (179)

Female Run Tees



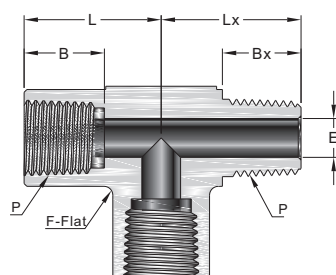
NPT Threads

P-NPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
		L	F	E	B	Lx	Bx	316 SS, Steel	Brass
1/16	FNPT1-TFRT-NPT1-NPT1-	21.8	11.1	3.0	9.9	18.3	9.7	9200 (633)	4600 (316)
1/8	FNPT2-TFRT-NPT2-NPT2-	26.4	12.7	4.8	10.4	22.1	9.7	6200 (427)	3100 (213)
1/4	FNPT4-TFRT-NPT4-NPT4-	29.7	17.5	7.1	15.0	29.7	14.2	7200 (496)	3600 (248)
3/8	FNPT6-TFRT-NPT6-NPT6-	36.1	20.6	9.7	15.0	32.0	14.2	5600 (385)	2800 (192)
1/2	FNPT8-TFRT-NPT8-NPT8-	39.6	25.4	11.9	19.8	39.6	19.1	5600 (385)	2800 (192)
3/4	FNPT12-TFRT-NPT12-NPT12-	48.8	31.8	15.7	20.6	42.4	19.1	5100 (351)	2500 (172)
1	FNPT16-TFRT-NPT16-NPT16-	48.5	42.9	22.4	25.4	49.3	23.9	5300 (365)	2600 (179)

ISO Tapered Threads

P-BSPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
		L	F	E	B	Lx	Bx	316 SS, Steel	Brass
1/16	FBT1-TFRT-MBT1-MBT1-	21.8	11.1	3.0	9.9	18.3	9.7	9200 (633)	4600 (316)
1/8	FBT2-TFRT-MBT2-MBT2-	26.4	12.7	4.8	10.4	22.1	9.7	6200 (427)	3100 (213)
1/4	FBT4-TFRT-MBT4-MBT4-	29.7	17.5	7.1	15.0	29.7	14.2	7200 (496)	3600 (248)
3/8	FBT6-TFRT-MBT6-MBT6-	36.1	20.6	9.7	15.0	32.0	14.2	5600 (385)	2800 (192)
1/2	FBT8-TFRT-MBT8-MBT8-	39.6	25.4	11.9	19.8	39.6	19.1	5600 (385)	2800 (192)
3/4	FBT12-TFRT-MBT12-MBT12-	48.8	31.8	15.7	20.6	42.4	19.1	5100 (351)	2500 (172)
1	FBT16-TFRT-MBT16-MBT16-	48.5	42.9	22.4	25.4	49.3	23.9	5300 (365)	2600 (179)

Male Street Tees



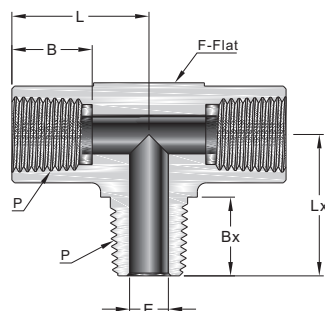
NPT Threads

P-NPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
		L	F	E	B	Lx	Bx	316 SS, Steel	Brass
1/16	FNPT1-TMST-NPT1-FNPT1-	21.8	11.1	3.0	9.9	18.3	9.7	9200 (633)	4600 (316)
1/8	FNPT2-TMST-NPT2-FNPT2-	26.4	12.7	4.8	10.4	22.1	9.7	6200 (427)	3100 (213)
1/4	FNPT4-TMST-NPT4-FNPT4-	29.7	17.5	7.1	15.0	29.7	14.2	7200 (496)	3600 (248)
3/8	FNPT6-TMST-NPT6-FNPT6-	36.1	20.6	9.6	15.0	32.0	14.2	5600 (385)	2800 (192)
1/2	FNPT8-TMST-NPT8-FNPT8-	39.6	25.4	11.9	19.8	39.6	19.1	5600 (385)	2800 (192)
3/4	FNPT12-TMST-NPT12-FNPT12-	48.8	31.8	15.7	20.6	42.4	19.1	5100 (351)	2500 (172)
1	FNPT16-TMST-NPT16-FNPT16-	48.5	42.9	22.4	25.4	49.3	23.9	5300 (365)	2600 (179)

ISO Tapered Pipe Threads

P-BSPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
		L	F	E	B	Lx	Bx	316 SS, Steel	Brass
1/16	FBT1-TMST-MBT1-FBT1-	21.8	11.1	3.0	9.9	18.3	9.7	9200 (633)	4600 (316)
1/8	FBT2-TMST-MBT2-FBT2-	26.4	12.7	4.8	10.4	22.1	9.7	6200 (427)	3100 (213)
1/4	FBT4-TMST-MBT4-FBT4-	29.7	17.5	7.1	15.0	29.7	14.2	7200 (496)	3600 (248)
3/8	FBT6-TMST-MBT6-FBT6-	36.1	20.6	9.7	15.0	32.0	14.2	5600 (385)	2800 (192)
1/2	FBT8-TMST-MBT8-FBT8-	39.6	25.4	11.9	19.8	39.6	19.1	5600 (385)	2800 (192)
3/4	FBT12-TMST-MBT12-FBT12-	48.8	31.8	15.7	20.6	42.4	19.1	5100 (351)	2500 (172)
1	FBT16-TMST-MBT16-FBT16-	48.5	42.9	22.4	25.4	49.3	23.9	5300 (365)	2600 (179)

Male Branch Tees



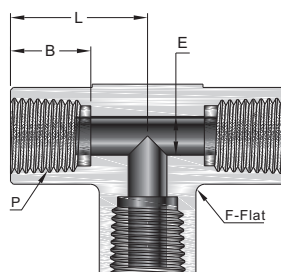
NPT Threads

P-NPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
		L	F	E	B	Lx	Bx	316 SS, Steel	Brass
1/16	FNPT1-TMBT-FNPT1-NPT1-	21.8	11.1	3.0	9.9	18.3	9.7	9200 (633)	4600 (316)
1/8	FNPT2-TMBT-FNPT2-NPT2-	26.4	12.7	4.8	10.4	22.1	9.7	6200 (427)	3100 (213)
1/4	FNPT4-TMBT-FNPT4-NPT4-	29.7	17.5	7.1	15.0	29.7	14.2	7200 (496)	3600 (248)
3/8	FNPT6-TMBT-FNPT6-NPT6-	36.1	20.6	9.6	15.0	32.0	14.2	5600 (385)	2800 (192)
1/2	FNPT8-TMBT-FNPT8-NPT8-	39.6	25.4	11.9	19.8	39.6	19.1	5600 (385)	2800 (192)
3/4	FNPT12-TMBT-FNPT12-NPT12-	48.8	31.8	15.7	20.6	42.4	19.1	5100 (351)	2500 (172)
1	FNPT16-TMBT-FNPT16-NPT16-	48.5	42.9	22.4	25.4	49.3	23.9	5300 (365)	2600 (179)

ISO Tapered Pipe Threads

P-BSPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)	
		L	F	E	B	Lx	Bx	316 SS, Steel	Brass
1/16	FBT1-TMBT-FBT1-MBT1-	21.8	11.1	3.0	9.9	18.3	9.7	9200 (633)	4600 (316)
1/8	FBT2-TMBT-FBT2-MBT2-	26.4	12.7	4.8	10.4	22.1	9.7	6200 (427)	3100 (213)
1/4	FBT4-TMBT-FBT4-MBT4-	29.7	17.5	7.1	15.0	29.7	14.2	7200 (496)	3600 (248)
3/8	FBT6-TMBT-FBT6-MBT6-	36.1	20.6	9.7	15.0	32.0	14.2	5600 (385)	2800 (192)
1/2	FBT8-TMBT-FBT8-MBT8-	39.6	25.4	11.9	19.8	39.6	19.1	5600 (385)	2800 (192)
3/4	FBT12-TMBT-FBT12-MBT12-	48.8	31.8	15.7	20.6	42.4	19.1	5100 (351)	2500 (172)
1	FBT16-TMBT-FBT16-MBT16-	48.5	42.9	22.4	25.4	49.3	23.9	5300 (365)	2600 (179)

Female Tees



Female NPT Threads

P-NPT Size	Basic Ordering Number	Dimension, mm				Working Pressure psig (bar)	
		L	F	E	B	316 SS, Steel	Brass
1/16	FNPT1-TFT-FNPT1-FNPT1-	21.8	11.1	4.8	9.9	6700 (460)	3300 (227)
1/8	FNPT2-TFT-FNPT2-FNPT2-	26.4	12.7	8.6	10.4	6200 (427)	3100 (213)
1/4	FNPT4-TFT-FNPT4-FNPT4-	29.7	17.5	11.4	15.0	7200 (496)	3600 (248)
3/8	FNPT6-TFT-FNPT6-FNPT6-	36.1	20.6	15.0	15.0	5600 (385)	2800 (192)
1/2	FNPT8-TFT-FNPT8-FNPT8-	39.6	25.4	18.5	19.8	5600 (385)	2800 (192)
3/4	FNPT12-TFT-FNPT12-FNPT12-	48.8	31.8	23.9	20.6	5100 (351)	2500 (172)
1	FNPT16-TFT-FNPT16-FNPT16-	48.5	42.9	29.7	25.4	6400 (440)	3200 (220)
1 1/4	FNPT20-TFT-FNPT20-FNPT20-	59.8	50.8	37.2	25.4	3100 (213)	1600 (110)
1 1/2	FNPT24-TFT-FNPT24-FNPT24-	65.0	63.5	43.3	27.7	5100 (351)	2500 (172)

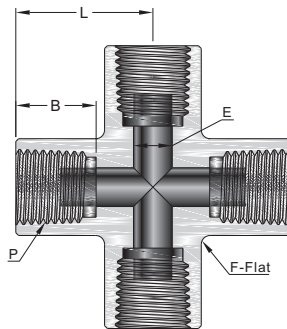
Heavy-Wall Female NPT Threads

1/4	FNPT4-TFT1-FNPT4-FNPT4-	39.6	25.4	11.4	15.0	10000 (689)	
1/2	FNPT8-TFT1-FNPT8-FNPT8-	50.0	27.0	18.5	19.8	10000 (689)	

Female ISO Tapered Pipe Threads

P-BSPT Size	Basic Ordering Number	Dimension, mm				Working Pressure psig (bar)	
		L	F	E	B	316 SS, Steel	Brass
1/16	FBT1-TFT-FBT1-FBT1-	21.8	11.1	4.8	9.9	6700 (460)	3300 (227)
1/8	FBT2-TFT-FBT2-FBT2-	26.4	12.7	8.6	10.4	6200 (427)	3100 (213)
1/4	FBT4-TFT-FBT4-FBT4-	29.7	17.5	11.2	15.0	7200 (496)	3600 (248)
3/8	FBT6-TFT-FBT6-FBT6-	36.1	20.6	14.7	15.0	5600 (385)	2800 (192)
1/2	FBT8-TFT-FBT8-FBT8-	39.6	25.4	18.3	19.8	5600 (385)	2800 (192)
3/4	FBT12-TFT-FBT12-FBT12-	48.8	31.8	23.9	20.6	5100 (351)	2500 (172)
1	FBT16-TFT-FBT16-FBT16-	48.5	42.9	29.7	25.4	6400 (440)	3200 (220)
1 1/4	FBT20-TFT-FBT20-FBT20-	59.8	50.8	37.2	25.4	3100 (213)	1600 (110)
1 1/2	FBT24-TFT-FBT24-FBT24-	65.0	63.5	43.3	27.7	5100 (351)	2500 (172)

Female Crosses



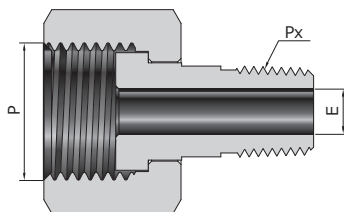
Female NPT Threads

P-NPT Size	Basic Ordering Number	Dimension, mm				Working Pressure psig (bar)	
		L	F	E	B	316 SS, Steel	Brass
1/16	FNPT1-TFC-FNPT1-FNPT1-FNPT1-	21.8	11.1	4.8	9.9	6700 (460)	3300 (227)
1/8	FNPT2-TFC-FNPT2-FNPT2-FNPT2-	26.4	12.7	8.6	10.4	6200 (427)	3100 (213)
1/4	FNPT4-TFC-FNPT4-FNPT4-FNPT4-	29.7	17.5	11.4	15.0	7200 (496)	3600 (248)
3/8	FNPT6-TFC-FNPT6-FNPT6-FNPT6-	36.1	20.6	15.0	15.0	5600 (385)	2800 (192)
1/2	FNPT8-TFC-FNPT8-FNPT8-FNPT8-	39.6	25.4	18.5	19.8	5600 (385)	2800 (192)
3/4	FNPT12-TFC-FNPT12-FNPT12-FNPT12-	48.8	31.8	23.9	20.6	5100 (351)	2500 (172)
1	FNPT16-TFC-FNPT16-FNPT16-FNPT16-	48.5	42.9	29.7	25.4	6400 (440)	3200 (220)

Female ISO Tapered Threads

P-BSPT Size	Basic Ordering Number	Dimension, mm				Working Pressure psig (bar)	
		L	F	E	B	316 SS, Steel	Brass
1/16	FBT1-TFC-FBT1-FBT1-FBT1-	21.8	11.1	4.8	9.9	6700 (460)	3300 (227)
1/8	FBT2-TFC-FBT2-FBT2-FBT2-	26.4	12.7	8.6	10.4	6200 (427)	3100 (213)
1/4	FBT4-TFC-FBT4-FBT4-FBT4-	29.7	17.5	11.4	15.0	7200 (496)	3600 (248)
3/8	FBT6-TFC-FBT6-FBT6-FBT6-	36.1	20.6	15.0	15.0	5600 (385)	2800 (192)
1/2	FBT8-TFC-FBT8-FBT8-FBT8-	39.6	25.4	18.5	19.8	5600 (385)	2800 (192)
3/4	FBT12-TFC-FBT12-FBT12-FBT12-	48.8	31.8	23.9	20.6	5100 (351)	2500 (172)
1	FBT16-TFC-FBT16-FBT16-FBT16-	48.5	42.9	29.7	25.4	6400 (440)	3200 (220)

Pipe to Pipe Unions



Metric Thread

P-Metric Thread Size	Px-NPT Size	Basic Ordering Number	Dimension, mm	Working Pressure psig (bar)
			E	316 SS, Steel
M20 x 1.5	1/8	FMS20-TPU-NPT2-	4.8	4500 (310)
M20 x 1.5	1/4	FMS20-TPU-NPT4-	7.1	4500 (310)

NPT Threads

Metric Thread

P-Metric Thread Size	Px-BSPT Size	Basic Ordering Number	Dimension, mm	Working Pressure psig (bar)
			E	316 SS, Steel
M20 x 1.5	1/8	FMS20-TPU-MBT2-	4.8	4500 (310)
M20 x 1.5	1/4	FMS20-TPU-MBT4-	7.1	4500 (310)

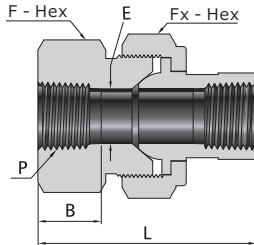
ISO Tapered Pipe Threads

ISO Parallel Thread

P-BG Size	Px-NPT Size	Basic Ordering Number	Dimension, mm	Working Pressure psig (bar)
			E	316 SS, Steel
1/2	1/8	FBP8-TPU-NPT2	4.8	4900 (337)
1/2	1/4	FBP8-TPU-NPT4	7.1	4900 (337)

NPT Threads

Union Ball Joints



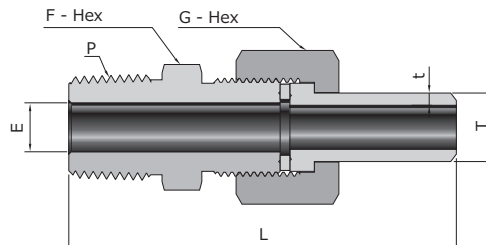
Female NPT Threads

P-NPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar) 316 SS, Steel
		L	F	Fx	B	E	
1/8	FNPT2-UBJ-FNPT2-	46.0	23.8	28.6	10.4	6.8	8400 (578)
1/4	FNPT4-UBJ-FNPT4-	59.4	30.2	34.9	15.0	9.1	6600 (454)
3/8	FNPT6-UBJ-FNPT6-	63.5	33.3	38.1	15.0	13.2	5300 (365)
1/2	FNPT8-UBJ-FNPT8-	68.3	41.3	44.5	19.8	15.7	6000 (410)
3/4	FNPT12-UBJ-FNPT12-	79.2	47.6	54.0	20.6	22.4	4600 (316)
1	FNPT16-UBJ-FNPT16-	90.4	60.3	63.5	25.4	26.2	6800 (468)

Female ISO Tapered Threads

P-BSPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar) 316 SS, Steel
		L	F	Fx	B	E	
1/8	FBT2-UBJ-FBT2-	46.0	23.8	28.6	10.4	6.8	8400 (578)
1/4	FBT4-UBJ-FBT4-	59.4	30.2	34.9	15.0	9.1	6600 (454)
3/8	FBT6-UBJ-FBT6-	63.5	33.3	38.1	15.0	13.2	5300 (365)
1/2	FBT8-UBJ-FBT8-	68.3	41.3	44.5	19.8	15.7	6000 (410)
3/4	FBT12-UBJ-FBT12-	79.2	47.6	54.0	20.6	22.4	4600 (316)
1	FBT16-UBJ-FBT16-	90.4	60.3	63.5	25.4	26.2	6800 (468)

Male Pipe to Tube Butt Weld (UGJ)

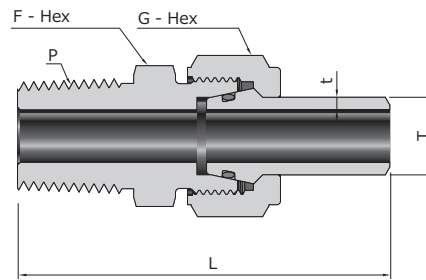


NPT Thread

Metric Tube

P-NPT Size	T-Tube O.D. (mm)	t-Wall Thickness (mm)	Basic Ordering Number	Dimension, mm				Working Pressure psig (bar)
				L	F	G	E	
1/8	14	2.5	NPT2-UGJ-MBW14-	69.0 (2.72)	19.0 (0.75)	22.0 (0.87)	4.8 (0.19)	6280 (433)
1/4	6	1.8	NPT4-UGJ-MBW6-	60.0 (2.36)	14.0 (0.55)	14.0 (0.55)	3.0 (0.12)	8240 (566)
1/4	8	1.8	NPT4-UGJ-MBW8-	73.2 (2.88)	14.0 (0.55)	16.0 (0.63)	4.0 (0.16)	8240 (566)
1/4	10	2.2	NPT4-UGJ-MBW10-	73.2 (2.88)	15.0 (0.59)	18.0 (0.71)	6.0 (0.24)	8160 (563)
1/4	12	2.2	NPT4-UGJ-MBW12-	73.2 (2.88)	18.0 (0.71)	22.0 (0.87)	7.0 (0.28)	6470 (446)
1/4	14	2.5	NPT4-UGJ-MBW14-	73.2 (2.88)	19.0 (0.75)	22.0 (0.87)	7.1 (0.28)	6280 (433)
1/4	16	2.8	NPT4-UGJ-MBW16-	73.2 (2.88)	22.0 (0.87)	25.0 (0.98)	7.1 (0.28)	6140 (423)
1/4	18	2.8	NPT4-UGJ-MBW18-	74.2 (2.92)	24.0 (0.94)	27.0 (1.06)	7.1 (0.28)	5670 (392)
3/8	14	2.5	NPT6-UGJ-MBW14-	73.2 (2.88)	19.0 (0.75)	22.0 (0.87)	9.7 (0.38)	6280 (433)
1/2	12	2.2	NPT8-UGJ-MBW12-	78.0 (3.07)	18.0 (0.71)	22.0 (0.87)	7.0 (0.28)	6470 (446)
1/2	14	2.5	NPT8-UGJ-MBW14-	78.0 (3.07)	19.0 (0.75)	22.0 (0.87)	9.0 (0.35)	6280 (433)
1/2	16	2.8	NPT8-UGJ-MBW16-	78.0 (3.07)	22.0 (0.87)	25.0 (0.98)	10.0 (0.39)	6140 (423)
1/2	22	3.0	NPT8-UGJ-MBW22-	82.0 (3.23)	30.0 (1.18)	32.0 (1.26)	11.9 (0.47)	4620 (319)
1/2	25	2.8	NPT8-UGJ-MBW25-	86.0 (3.39)	32.0 (1.26)	35.0 (1.38)	11.9 (0.47)	4730 (326)
1	25	3.5	NPT16-UGJ-MBW25-	103.0 (4.06)	35.0 (1.38)	35.0 (1.38)	17.0 (0.67)	4730 (326)

Male Pipe to Tube Butt Weld (UOJ)



NPT Thread

Metric Tube

P-NPT Size	T-Tube O.D. (mm)	t-Wall Thickness (mm)	Basic Ordering Number	Dimension, in. (mm)				Working Pressure psig (bar)
				L	F	G	E	
1/8	14	2.5	NPT2-UOJ-MBW14-	69.0 (2.72)	19.0 (0.75)	22.0 (0.87)	4.8 (0.19)	6280 (433)
1/4	6	1.8	NPT4-UOJ-MBW6-	60.0 (2.36)	14.0 (0.55)	14.0 (0.55)	3.0 (0.12)	8240 (566)
1/4	8	1.8	NPT4-UOJ-MBW8-	73.2 (2.88)	14.0 (0.55)	16.0 (0.63)	4.0 (0.16)	8240 (566)
1/4	10	2.2	NPT4-UOJ-MBW10-	73.2 (2.88)	15.0 (0.59)	18.0 (0.71)	6.0 (0.24)	8160 (563)
1/4	12	2.2	NPT4-UOJ-MBW12-	73.2 (2.88)	18.0 (0.71)	22.0 (0.87)	7.0 (0.28)	6470 (446)
1/4	14	2.5	NPT4-UOJ-MBW14-	73.2 (2.88)	19.0 (0.75)	22.0 (0.87)	7.1 (0.28)	6280 (433)
1/4	16	2.8	NPT4-UOJ-MBW16-	73.2 (2.88)	22.0 (0.87)	25.0 (0.98)	7.1 (0.28)	6140 (423)
1/4	18	2.8	NPT4-UOJ-MBW18-	74.2 (2.92)	24.0 (0.94)	27.0 (1.06)	7.1 (0.28)	5670 (392)
3/8	14	2.5	NPT6-UOJ-MBW14-	73.2 (2.88)	19.0 (0.75)	22.0 (0.87)	9.7 (0.38)	6280 (433)
1/2	12	2.2	NPT8-UOJ-MBW12-	78.0 (3.07)	18.0 (0.71)	22.0 (0.87)	7.0 (0.28)	6470 (446)
1/2	14	2.5	NPT8-UOJ-MBW14-	78.0 (3.07)	19.0 (0.75)	22.0 (0.87)	9.0 (0.35)	6280 (433)
1/2	16	2.8	NPT8-UOJ-MBW16-	78.0 (3.07)	22.0 (0.87)	25.0 (0.98)	10.0 (0.39)	6140 (423)
1/2	22	3.0	NPT8-UOJ-MBW22-	82.0 (3.23)	30.0 (1.18)	32.0 (1.26)	11.9 (0.47)	4620 (319)
1/2	25	2.8	NPT8-UOJ-MBW25-	86.0 (3.39)	32.0 (1.26)	35.0 (1.38)	11.9 (0.47)	4730 (326)
1	25	3.5	NPT16-UOJ-MBW25-	103.0 (4.06)	35.0 (1.38)	35.0 (1.38)	17.0 (0.67)	4730 (326)

How to Order

FNPT8

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TSE

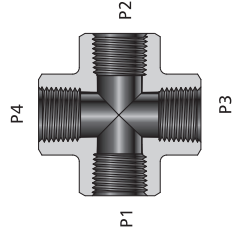
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NPT4

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316

Port 1 Type	Port 1 Size	Fitting Configuration	Port 2 Port 3 and Port 4	Material
FNPT Female NPT	2 1/8 in.	TP Pipe Plug	Same as the Port 1 or as follow : FMS Female ISO MS Male ISO (for BG) BPMS Male ISO (for BP) BSMS Male ISO (for BS) MSO O-ring with Male ISO FST Female SAE MST Male SAE (for BG) BPST Male SAE (for BP) BSST Male SAE (for BS) OST O-ring with Male SAE PPT Positionable BSP Parallel Thread PMS Positionable ISO Parallel Thread PST Positionable SAE Parallel Thread	316 316 S.S.
NPT Male NPT	4 1/4 in.	THP Hollow Hex Plug		316L 316L S.S
NPTO O-ring with Male NPT	5 5/16-24	TCN Close Nipple		304 304 S.S.
FBT Female BSPT	6 3/8 in. or 3/8-24	TPN Special Pipe Nipple		304L 304L S.S.
MBT Male BSPT	7 7/16-20	THN Hex Nipple		A20 Alloy 20
MBTO O-ring with Male BSPT	8 1/2 in or M8 x 1	TLN Hex Long Nipple		A400 Alloy 400
	9 9/16-18	TRB Reducing Bushing		A600 Alloy 600
	10 M10 x 1	PC Pipe Cap		A825 Alloy 825
FBP Female BSPP	12 3/4 in. or M12 x 1.5 or 3/4-16	THC Hex Coupling		A276 Alloy C276
PMBP Male BSPP (for BP)	14 M14 x 1.5 or 7/8-14	UBJ Union Ball Joints		DU7 Duplex 2507
MBS Male BSPP (for BS)	16 1 in. or M16 x 1.5	UGJ Union Gasket Joints		BR Brass
MBP Male BSPP (for BG)	17 1 1/16-12	UOJ Union O-Ring Joints		CS Carbon steel
	18 M18 x 1.5	TA Adapter		TI Titanium
	19 1 3/16 -12	TME Male Elbow		
	20 1 1/4 in. or M20 x 1.5	TSE Street Elbow		
	21 1 5/16 -12	T45E 45°Street Elbow		
	22 M22 x 1.5	TFE Female Elbow		
	24 1 1/2 in. or M24 x 1.5	T45FE 45°Female Elbow		
	26 1 5/8 -12	TMT Male Tee		
	27 M27 x 2	TFBT Female Branch Tee		
	30 1 7/8-12 or M30 x 2	TFRT Female Run Tee		
	32 2 in.	TMST Male Street Tee		
		TMBT Male Branch Tee		
		TFT Female Tee		
		TFC Female Cross		



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