

## Features

- ◎ The hardened threads with smooth surface finishing avoid galling and help to extend the fitting service life
- ◎ Radius junction design for elbows provides smooth flow path
- ◎ Every fitting is marked with size, material and heat number

## Technical Data

- ◎ Sizes range from 1/16 to 2
- ◎ Thread Specifications:

Thread Type	Specification
NPT	ASME B1.20.1, SAE A571051
ISO Tapered	ISO 7-1, BS 21, JIS B0203
ISO Parallel	ISO 228, JIS B0202
SAE/MS	ASME B1.1, SAE J475
Metric	ISO 261

- ◎ Working Temperature:

For the working temperatures of FITOK pipe fittings, please see A-10.

- ◎ Working Pressure:

1. Catalog working pressures shown are based on ANSI/ASME B31.3 at ambient temperature, to determine working pressures in accordance with ANSI/ASME B31.1 multiply catalog working pressures shown by the factor from the table below.

Material	Factor
Carbon steel	0.85
Brass	1.0

2. Use the allowable working pressure at ambient temperature to multiply the elevated temperature factors to get the working pressure at elevated temperature. To know the elevated temperature factor, please see F-14.
3. For technical information of NPT thread and ISO tapered thread, please see page A-06 and A-07.

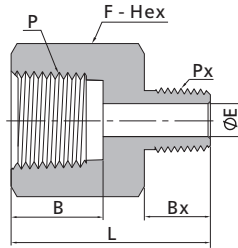
## Materials

Material	Bar Stock	Forging	Designator
316 stainless steel	ASTM A276, ASME SA479, EN 1.4401	ASTM A182, ASME SA182, EN 1.4401	SS
304 stainless steel	ASTM A276, ASME SA479, EN 1.4301	ASTM A182, ASME SA182, EN 1.4301	S4
Alloy 400	ASTM B164, ASME SB164	ASTM B564 ASME SB564	M
Alloy 600	ASTM B166, ASME SB166	ASTM B564, ASME SB564	INC
Alloy C-276	ASTM B574	ASTM B564,	HC
Brass	ASME B16/ASTM B453	ASTM B283	B
Carbon steel	ASTM A108	ASTM A105	CS
904L stainless steel	ASTM B649	ASTM A182	904L

## Cautions

- ◎ Do not loosen or tighten fittings when system is pressurized.
- ◎ Always use proper thread sealants on tapered pipe threads. FITOK PTFE thread seal tapes are available. For more details, see Page A-90 of the **6D Series Tube Fittings** catalog.
- ◎ To ensure an effective sealing of the system, choose the suitable sealing type for parallel threads.

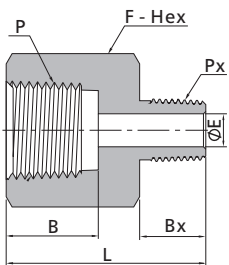
Adapters



Pipe Fittings  
Weld Fittings

Female NPT Threads			Male NPT Threads						
P-NPT Size	Px-NPT Size	Basic Ordering Number	Dimensions, in. (mm)					Working Pressure psig (bar)	
			L	F	B	Bx	E	316 SS, Steel	Brass
1/8	1/16	-PA-NS2-NS1	1.09 (27.7)	0.56 (14.3)	0.41 (10.4)	0.38 (9.7)	0.12 (3.0)	6500 (447)	3200 (220)
1/8	1/8	-PA-NS2	1.10 (27.9)	0.56 (14.3)	0.41 (10.4)	0.38 (9.7)	0.19 (4.8)	6500 (447)	3200 (220)
1/4	1/16	-PA-NS4-NS1	1.20 (30.5)	0.75 (19.1)	0.59 (15.0)	0.38 (9.7)	0.12 (3.0)	6600 (454)	3300 (227)
1/4	1/8	-PA-NS4-NS2	1.26 (32.0)	0.75 (19.1)	0.59 (15.0)	0.38 (9.7)	0.19 (4.8)	6600 (454)	3300 (227)
1/4	1/4	-PA-NS4	1.40 (35.6)	0.75 (19.1)	0.59 (15.0)	0.56 (14.2)	0.28 (7.1)	6600 (454)	3300 (227)
3/8	1/16	-PA-NS6-NS1	1.25 (31.8)	0.87 (22.2)	0.59 (15.0)	0.38 (9.7)	0.12 (3.0)	5300 (365)	2600 (179)
3/8	1/8	-PA-NS6-NS2	1.33 (33.8)	0.87 (22.2)	0.59 (15.0)	0.38 (9.7)	0.19 (4.8)	5300 (365)	2600 (179)
3/8	1/4	-PA-NS6-NS4	1.50 (38.1)	0.87 (22.2)	0.59 (15.0)	0.56 (14.2)	0.28 (7.1)	5300 (365)	2600 (179)
3/8	3/8	-PA-NS6	1.51 (38.4)	0.87 (22.2)	0.59 (15.0)	0.56 (14.2)	0.38 (9.6)	5300 (365)	2600 (179)
1/2	1/8	-PA-NS8-NS2	1.58 (40.1)	1.06 (27.0)	0.78 (19.8)	0.38 (9.7)	0.19 (4.8)	4900 (337)	2400 (165)
1/2	1/4	-PA-NS8-NS4	1.76 (44.7)	1.06 (27.0)	0.78 (19.8)	0.56 (14.2)	0.28 (7.1)	4900 (337)	2400 (165)
1/2	3/8	-PA-NS8-NS6	1.75 (44.4)	1.06 (27.0)	0.78 (19.8)	0.56 (14.2)	0.38 (9.6)	4900 (337)	2400 (165)
1/2	1/2	-PA-NS8	1.94 (49.3)	1.06 (27.0)	0.78 (19.8)	0.75 (19.1)	0.47 (11.9)	4900 (337)	2400 (165)
3/4	1/8	-PA-NS12-NS2	1.56 (39.6)	1.31 (33.3)	0.81 (20.6)	0.38 (9.7)	0.19 (4.8)	4600 (316)	2300 (158)
3/4	1/4	-PA-NS12-NS4	1.85 (47.0)	1.31 (33.3)	0.81 (20.6)	0.56 (14.2)	0.28 (7.1)	4600 (316)	2300 (158)
3/4	3/8	-PA-NS12-NS6	1.82 (46.2)	1.31 (33.3)	0.81 (20.6)	0.56 (14.2)	0.38 (9.6)	4600 (316)	2300 (158)
3/4	1/2	-PA-NS12-NS8	2.02 (51.3)	1.31 (33.3)	0.81 (20.6)	0.75 (19.1)	0.47 (11.9)	4600 (316)	2300 (158)
3/4	3/4	-PA-NS12	2.02 (51.3)	1.31 (33.3)	0.81 (20.6)	0.75 (19.1)	0.62 (15.7)	4600 (316)	2300 (158)
1	1/8	-PA-NS16-NS2	1.81 (46.0)	1.63 (41.3)	1.00 (25.4)	0.38 (9.7)	0.19 (4.8)	4400 (303)	2200 (151)
1	1/4	-PA-NS16-NS4	1.96 (49.8)	1.63 (41.3)	1.00 (25.4)	0.56 (14.2)	0.28 (7.1)	4400 (303)	2200 (151)
1	3/8	-PA-NS16-NS6	2.00 (50.8)	1.63 (41.3)	1.00 (25.4)	0.56 (14.2)	0.38 (9.6)	4400 (303)	2200 (151)
1	1/2	-PA-NS16-NS8	2.16 (54.9)	1.63 (41.3)	1.00 (25.4)	0.75 (19.1)	0.47 (11.9)	4400 (303)	2200 (151)
1	3/4	-PA-NS16-NS12	2.17 (55.1)	1.63 (41.3)	1.00 (25.4)	0.75 (19.1)	0.62 (15.7)	4400 (303)	2200 (151)
1	1	-PA-NS16	2.28 (57.9)	1.63 (41.3)	1.00 (25.4)	0.94 (23.9)	0.88 (22.4)	4400 (303)	2200 (151)
1 1/4	1	-PA-NS20-NS16	2.47 (62.7)	2.13 (54.0)	1.00 (25.4)	0.94 (23.9)	0.88 (22.4)	5000 (344)	2500 (172)

Adapters



Female NPT Threads			Male ISO Tapered Threads						
P-NPT Size	Px-RT Size	Basic Ordering Number	Dimensions, in. (mm)					Working Pressure psig (bar)	
			L	F	B	Bx	E	316 SS, Steel	Brass
1/8	1/8	-PA-NS2-RT2	1.09 (27.7)	0.56 (14.3)	0.41 (10.4)	0.38 (9.7)	0.19 (4.8)	6500 (447)	3200 (220)
1/4	1/4	-PA-NS4-RT4	1.42 (36.1)	0.75 (19.1)	0.59 (15.0)	0.56 (14.2)	0.28 (7.1)	6600 (454)	3300 (227)
3/8	3/8	-PA-NS6-RT6	1.50 (38.1)	0.87 (22.2)	0.59 (15.0)	0.56 (14.2)	0.38 (9.6)	5300 (365)	2600 (179)
1/2	1/2	-PA-NS8-RT8	1.94 (49.3)	1.06 (27.0)	0.78 (19.8)	0.75 (19.1)	0.47 (11.9)	4900 (337)	2400 (165)
3/4	3/4	-PA-NS12-RT12	2.02 (51.3)	1.31 (33.3)	0.81 (20.6)	0.75 (19.1)	0.62 (15.7)	4600 (316)	2300 (158)
1	1	-PA-NS16-RT16	2.30 (58.4)	1.63 (41.3)	1.00 (25.4)	0.94 (23.9)	0.88 (22.4)	4400 (303)	2200 (151)