

Pneufit push-in fittings

Inch

Ø 1/8" to 1/2" O/D tube

For simple and quick assembly of pneumatic circuits.

Positive tube connection.

Wide range of types available.

Reliable and corrosion resistant.

Specifications

Fluid: Compressed air, nitrogen, inert and non-combustible gases compatible with materials of construction.

Note: For other types of fluids or compressed gases, please consult factory.

Working Pressure: 29.5" Hg vacuum to 260 psig (750 mm Hg to 18 bar)

Note: Flow Control working pressures: 5 to 150 psig (.3 to 10 bar)

Working Temperature: 0° to 175°F (-20° to 80°C)

Request viton® option on selected part numbers for extended temperature range : 0° to 350°F (-20° to 180°C)

Materials

Body, swivel fitting and collet: Nickel plated brass

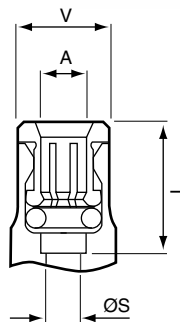
O-ring: Silicone free Nitrile

Sealing washer (parallel male threads): silicone free nitrile

Tubing: Nylon 11 or 12, Polyurethane (95 durometer or above) and LDPE (Low Density Polyethylene).

Note: Lower durometer polyurethane may be used, however, an internal tube support is required to prevent internal collapse of the tube wall.

Thread Sealant: Precote 5 thread sealant is factory applied to the circumference of tapered male threads.

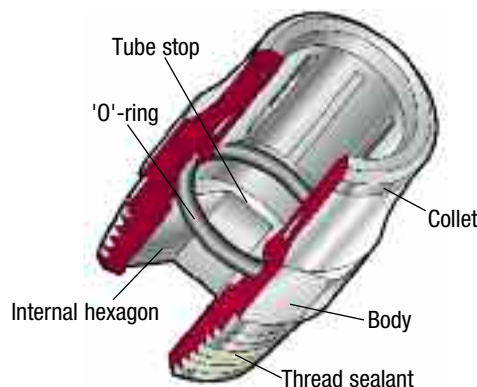


Dimensions Inches (mm)

A O.D. Tube	T S	Tubing Stop	V
1/8"	0.09 (2.3)	0.53 (13.5)	0.26 (6.5)
5/32" (4)	0.11 (2.8)	0.55 (14.0)	0.30 (7.5)
3/16"	0.13 (3.4)	0.59 (15.1)	0.38 (9.7)
1/4"	0.17 (4.4)	0.61 (15.5)	0.42 (10.7)
5/16" (8)	0.24 (6.0)	0.65 (16.5)	0.51 (13.0)
3/8"	0.30 (7.6)	0.83 (21.0)	0.59 (15.1)
1/2"	0.38 (9.6)	0.96 (24.3)	0.71 (18.1)

Recommended tightening torques

Thread	Tightening torque ft lbs (Nm)
10-32 UNF	.75 – 1 (1-1.4)
1/8" NPT	5.0 – 6.5 (6.9 – 8.8)
1/4" NPT	8.7 – 10.1 (11.8 – 13.7)
3/8" NPT	15.9 – 17.3 (21.6 – 23.5)
1/2" NPT	20.2 – 21.7 (27.4 – 29.4)



Tube O.D.'s and Tube Tolerances

Tube O.D.	O.D. Tube Tolerances	
	Nylon	Polyurethane
1/8" to 1/2"	+0.002" (+0.05 mm)	+0.005"
(3 mm to 14 mm)	-0.004" (-0.10 mm)	(±0.12 mm)

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Ø 1/8" to 1/2" O/D tube

Pneufit Union

O/D Tube	Part Number
1/8"	12 020 0100
1/8" to 1/4"*	12 020 0104
5/32"	12 020 0200
3/16"	12 020 0300
1/4"	12 020 0400
5/16"	12 020 0500
3/8"	12 020 0600
1/2"	12 020 0700

* Reducing union with 1/8" and 1/4" connections

Pneufit Conversion Union (Inch tube to mm tube)

O/D Inch	O/D MM	Part Number
5/32	4	12 020 0200
3/16	5	12 037 0305
1/4	6	12 037 0406
5/16	8	12 020 0500
3/8	10	12 037 0610
1/2	12	12 037 0712

Pneufit Double Male Union (Brass)

O/D Stem	Part Number
1/8"	12 022 0100
5/32"	12 022 0200
3/16"	12 022 0300
1/4"	12 022 0400
5/16"	12 022 0500
3/8"	12 022 0600
1/2"	12 022 0700

Not suitable for use with Pneufit C

Pneufit Double Male Union (Plastic)

O/D Stem	Part Number
5/32"	C0 022 0400
3/16"	C2 022 0300
1/4"	C2 022 0400
5/16"	C2 022 0500
3/8"	C2 022 0600
1/2"	C2 022 0700

Pneufit Tube End Expander/Reducer

O/D Tube	O/D Stem	Part Number
Reducing		
1/8"	5/32"	12 023 0201
1/8"	1/4"	12 023 0401
5/32"	1/4"	12 023 0402
5/32"	5/16"	12 023 0502
5/32"	3/8"	12 023 0602
3/16"	1/4"	12 023 0403
3/16"	5/16"	12 023 0503
1/4"	5/16"	12 023 0504
1/4"	3/8"	12 023 0604
1/4"	1/2"	12 023 0704
5/16"	3/8"	12 023 0605
5/16"	1/2"	12 023 0705
3/8"	1/2"	12 023 0706
Expanding		
1/4"	1/8"	12 023 0104
1/4"	5/32"	12 023 0204
1/4"	3/16"	12 023 0304

Not suitable for use with Pneufit C

Pneufit Bulkhead Union

O/D Tube	Metric Thread	Part Number
1/8"	M10 x 1.0	12 029 0100
5/32"	M10 x 1.0	12 029 0200
3/16"	M12 x 1.0	12 029 0300
1/4"	M14 x 1.5	12 029 0400
5/16"	M16 x 1.5	12 029 0500
3/8"	M20 x 1.5	12 029 0600
1/2"	M24 x 1.5	12 029 0700

Pneufit Union Elbow

O/D Tube	Part Number
1/8"	12 040 0100
5/32"	12 040 0200
3/16"	12 040 0300
1/4"	12 040 0400
5/16"	12 040 0500
3/8"	12 040 0600
1/2"	12 040 0700

Pneufit Union Tee

O/D Tube	Part Number
1/8"	12 060 0100
5/32"	12 060 0200
3/16"	12 060 0300
1/4"	12 060 0400
5/16"	12 060 0500
3/8"	12 060 0600
1/2"	12 060 0700

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Ø 1/8" to 1/2" O/D tube

Pneufit Parallel Union "Y"*



O/D Tube	O/D Tube	Part Number
5/32"	5/32"	12 082 0200
5/32"	1/4"	12 082 0402
1/4"	1/4"	12 082 0400
5/16"	5/16"	12 082 0500

*Body Material: Thermoplastic

Pneufit Stem "Y"*



O/D Tube	O/D Stem	Part Number
5/32"	5/32"	12 084 0202
5/32"	1/4"	12 084 0402
1/4"	1/4"	12 084 0404
5/16"	5/16"	12 084 0505

*Body Material: Thermoplastic

Pneumatic Male Adapter



O/D Tube	NPT or UNF Thread	Part Number
1/8"	10-32 UNF	12 425 0110
1/8"	1/16	12 425 0116
1/8"	1/8	12 425 0118
1/8"	1/4	12 425 0128
5/32"	10-32 UNF	12 425 0210
5/32"	1/8	12 425 0218
5/32"	1/4	12 425 0228
3/16"	1/8	12 425 0318
3/16"	1/4	12 425 0328
1/4"	10-32 UNF	12 425 0410
1/4"	1/8	12 425 0418
1/4"	1/4	12 425 0428
1/4"	3/8	12 425 0438
5/16"	1/8	12 425 0518
5/16"	1/4	12 425 0528
5/16"	3/8	12 425 0538
3/8"	1/8	12 425 0618
3/8"	1/4	12 425 0628
3/8"	3/8	12 425 0638
3/8"	1/2	12 425 0648
1/2"	1/4	12 425 0728
1/2"	3/8	12 425 0738
1/2"	1/2	12 425 0748

Pneufit Straight Adapter



O/D Tube	G Thread	Part Number
1/4"	M5x08	12 225 0405
1/4"	G 1/8	12 225 0418
1/4"	G 1/4	12 225 0428
3/8"	G 1/4	12 225 0628
3/8"	G 3/8	12 225 0638
1/2"	G 3/8	12 225 0738
1/2"	G 1/2	12 225 0748

Pneufit Male Adapter - Conversion (mm O.D. Tube to NPTF [Male] Thread)

A O/D Tube	B NPT Thread	Part Number
4	10-32	12 425 0210
4	1/8	12 425 0218
4	1/4	12 425 0228
5	1/8	10 425 0518
5	1/4	10 425 0528
6	10-32	10 425 0610
6	1/8	10 425 0618
6	1/4	10 425 0628
6	3/8	10 425 0638
8	1/8	12 425 0518
8	1/4	12 425 0528
8	3/8	12 425 0538
10	1/8	10 425 1018
10	1/4	10 425 1028
10	3/8	10 425 1038
10	1/2	10 425 1048
12	1/4	10 425 1228
12	3/8	10 425 1238
12	1/2	10 425 1248

Pneufit Female Bulkhead Adapter

O/D Tube	NPT Female	Part Number
1/4"	1/4	12 432 0428
3/8"	1/4	12 432 0628

Pneufit Male Adapter - Conversion (Inch O.D. Tube to ISO R [Male] Thread)

O/D Tube	ISO R Thread	Part Number
1/8"	1/8	12 125 0118
1/8"	1/4	12 125 0128
5/32"	1/8	10 125 0418
5/32"	1/4	10 125 0428
1/4"	1/8	12 125 0418
1/4"	1/4	12 125 0428
1/4"	3/8	12 125 0438
5/16"	1/8	10 125 0818
5/16"	1/4	10 125 0828
5/16"	3/8	10 125 0838
3/8"	1/8	12 125 0618
3/8"	1/4	12 125 0628
3/8"	3/8	12 125 0638
3/8"	1/2	12 125 0648
1/2"	1/4	12 125 0728
1/2"	3/8	12 125 0738
1/2"	1/2	12 125 0748

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Ø 1/8" to 1/2" O/D tube

Pneufit Self Sealing (Checked) Adapter (Inch tube to NPT)

O/D Tube	NPT Thread	Part Number
5/32"	1/8	12 424 0218
1/4"	1/8	12 424 0418
1/4"	1/4	12 424 0428
5/16"	1/4	12 424 0528

Pneufit Stem Adapter

O/D Tube	NPT Thread	Part Number
3/32"	10-32	12 415 0210
5/32"	1/8	12 415 0218
5/32"	1/4	12 415 0228
1/4"	1/8	12 415 0418
1/4"	1/4	12 415 0428
5/16"	1/8	12 415 0518
5/16"	1/4	12 415 0528
3/8"	1/4	12 415 0628
3/8"	3/8	12 415 0638
1/2"	3/8	12 415 0738
1/2"	1/2	12 415 0748

Not suitable for use with Pneufit C

Pneufit Stem Adapter (mm O.D. Stem to NPT [Male] Thread)

O/D Stem	NPT Thread	Part Number
4	1/8	12 415 0218
4	1/4	12 415 0228
8	1/8	12 415 0518
8	1/4	12 415 0528

Not suitable for use with Pneufit C

Pneufit Stem Adapter (Inch O.D. Stem to ISO R Thread)

O/D Stem	ISO R Thread	Part Number
5/32	1/8	10 115 0418
5/32	1/4	10 115 0428
1/4	1/8	12 115 0418
1/4	1/4	12 115 0428
5/16	1/8	10 115 0518
5/16	1/4	10 115 0528
3/8	1/4	12 115 0628
3/8	3/8	12 115 0638
1/2	3/8	12 115 0738
1/2	1/2	12 115 0748

Not suitable for use with Pneufit C

Pneufit Female Adapter

O/D Tube	NPT Thread	Part Number
1/8"	1/8	12 426 0118
1/8"	1/4	12 426 0128
5/32"	1/8	12 426 0218
5/32"	1/4	12 426 0228
1/4"	1/8	12 426 0418
1/4"	1/4	12 426 0428
5/16"	1/8	12 426 0518
5/16"	1/4	12 426 0528
3/8"	1/4	12 426 0628
3/8"	3/8	12 426 0638

Pneufit Fixed Male Elbow

O/D Tube	NPT Thread	Part Number
1/8"	1/8	12 445 0118
5/32"	1/8	12 445 0218
5/32"	1/4	12 445 0228
3/16"	1/8	12 445 0318
3/16"	1/4	12 445 0328
1/4"	1/8	12 445 0418
1/4"	1/4	12 445 0428
1/4"	3/8	12 445 0438
5/16"	1/8	12 445 0518
5/16"	1/4	12 445 0528
3/8"	1/8	12 445 0618
3/8"	1/4	12 445 0628
3/8"	3/8	12 445 0638
3/8"	1/2	12 445 0648
1/2"	1/4	12 445 0728
1/2"	3/8	12 445 0738
1/2"	1/2	12 445 0748

Pneufit Swivel Male Elbow

O/D Tube	NPT or UNF Thread	Part Number
1/8"	10-32 UNF	12 447 0110
1/8"	1/8	12 447 0118
1/8"	1/4	12 447 0128
5/32"	10-32 UNF	12 447 0210
5/32"	1/8	12 447 0218
5/32"	1/4	12 447 0228
3/16"	1/8	12 447 0318
3/16"	1/4	12 447 0328
1/4"	10-32 UNF	12 447 0410
1/4"	1/8	12 447 0418
1/4"	1/4	12 447 0428
1/4"	3/8	12 447 0438
5/16"	1/8	12 447 0518
5/16"	1/4	12 447 0528
3/8"	1/8	12 447 0618
3/8"	1/4	12 447 0628
3/8"	3/8	12 447 0638
3/8"	1/2	12 447 0648
1/2"	1/4	12 447 0728
1/2"	3/8	12 447 0738
1/2"	1/2	12 447 0748

CAUTION: Swivel adapters are not suitable for use in continuously rotating or gyrating applications.

Pneufit push-in fittings

Inch

Ø 1/8" to 1/2" O/D tube



Pneufit Extended Swivel Male Elbow

O/D Tube	NPT Thread	Part Number
5/32"	1/8	12 454 0218
5/32"	1/4	12 454 0228
1/4"	1/8	12 454 0418
1/4"	1/4	12 454 0428
3/8"	1/4	12 454 0628
3/8"	3/8	12 454 0638



CAUTION: Swivel adapters are not suitable for use in continuously rotating or gyrating applications.

Pneufit Swivel Male Side Tee

O/D Tube	NPT or UNF Thread	Part Number
1/8"	10-32 UNF	12 468 0110
1/8"	1/8	12 468 0118
1/8"	1/4	12 468 0128
5/32"	10-32 UNF	12 468 0210
5/32"	1/8	12 468 0218
5/32"	1/4	12 468 0228
3/16"	1/8	12 468 0318
3/16"	1/4	12 468 0328
1/4"	1/8	12 468 0418
1/4"	1/4	12 468 0428
1/4"	3/8	12 468 0438
5/16"	1/8	12 468 0518
5/16"	1/4	12 468 0528
3/8"	1/8	12 468 0618
3/8"	1/4	12 468 0628
3/8"	3/8	12 468 0638
3/8"	1/2	12 468 0648
1/2"	1/4	12 468 0728
1/2"	3/8	12 468 0738
1/2"	1/2	12 468 0748

Pneufit Swivel Male Elbow

O/D Tube	NPT Thread	Part Number
1/4"	M5x08	12 447 0405
1/4"	G1/8	12 447 0418
1/4"	G1/4	12 447 0428
3/8"	G1/4	12 447 0628
3/8"	G3/8	12 447 0638
1/2"	G3/8	12 447 0738
1/2"	G1/2	12 447 0748

CAUTION: Swivel adapters are not suitable for use in continuously rotating or gyrating applications.



Swivel Female Elbow

O/D Tube	NPT Thread	Part Number
1/8"	1/8	12 448 0118
5/32"	1/8	12 448 0218
5/32"	1/4	12 448 0228
1/4"	1/8	12 448 0418
1/4"	1/4	12 448 0428
5/16"	1/4	12 448 0528
3/8"	1/4	12 448 0628
1/2"	3/8	12 448 0738

CAUTION: Swivel adapters are not suitable for use in continuously rotating or gyrating applications.



*Material: Thermoplastic

Pneufit Male Swivel Y*

O/D Tube	NPT Thread	Part Number
5/32"	1/8	12 488 0218
5/32"	1/4	12 488 0228
1/4"	1/8	12 488 0418
1/4"	1/4	12 488 0428
3/8"	3/8	12 488 0638

Pneufit Swivel Male Tee

O/D Tube	NPT or UNF Thread	Part Number
1/8"	10-32 UNF	12 467 0110
1/8"	1/8	12 467 0118
1/8"	1/4	12 467 0128
5/32"	10-32 UNF	12 467 0210
5/32"	1/8	12 467 0218
5/32"	1/4	12 467 0228
3/16"	1/8	12 467 0318
3/16"	1/4	12 467 0328
1/4"	1/8	12 467 0418
1/4"	1/4	12 467 0428
1/4"	3/8	12 467 0438
5/16"	1/8	12 467 0518
5/16"	1/4	12 467 0528
3/8"	1/8	12 467 0618
3/8"	1/4	12 467 0628
3/8"	3/8	12 467 0638
3/8"	1/2	12 467 0648
1/2"	1/4	12 467 0728
1/2"	3/8	12 467 0738
1/2"	1/2	12 467 0748

CAUTION: Swivel adapters are not suitable for use in continuously rotating or gyrating applications.



Pneufit Banjo Elbow

O/D Tube	NPT or UNF Thread	Part Number
1/8"	1/8	12 R51 0118
5/32"	10-32 UNF	12 R51 0210
5/32"	1/8	12 R51 0218
1/4"	1/8	12 R51 0418
1/4"	1/4	12 R51 0428
1/4"	3/8	12 R51 0438
3/8"	1/4	12 R51 0628
3/8"	3/8	12 R51 0638

Pneufit Banjo Tee

O/D Tube	NPT or UNF Thread	Part Number
5/32"	10-32 UNF	12 R71 0210
1/4"	1/8	12 R71 0418
1/4"	1/4	12 R71 0428
3/8"	1/4	12 R71 0628
3/8"	3/8	12 R71 0638



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* Material: Nickel plated Brass

Pneufit Plug*

O/D Stem	Part Number
1/8"	12 004 0100
5/32"	12 004 0200
3/16"	12 004 0300
1/4"	12 004 0400
5/16"	12 004 0500
3/8"	12 004 0600
1/2"	12 004 0700

Not suitable for use with Pneufit C



Pneufit Manifold**

A O/D Tube	B O/D Tube	C NPT Thread	Product Number
5/16	5/32	1/4	12 4D6 0228
5/16	5/32	3/8	12 4D6 0238
5/16	1/4	1/4	12 4D6 0428
5/16	1/4	3/8	12 4D6 0438
3/8	1/4	1/2	12 4D6 0448
3/8	5/16	1/2	12 4D6 0548

**Body material PBT



Pneufit Barb Adapter

A O/D Stem	B Hose Bore	Part Number
1/8"	1/8"	12 019 0101
5/32"	1/8"	12 019 0201
1/4"	3/16"	12 019 0403
3/8"	5/16"	12 019 0605
1/2"	3/8"	12 019 0706

Not suitable for use with Pneufit C



Pneufit Manifold**

A O/D Inlet	B O/D Outlet	Part Number
1/4	5/32	12 0D6 0402
5/16	5/32	12 0D6 0502
3/8	1/4	12 0D6 0604
3/8	5/16	12 0D6 0605

**Body material PBT