

PLUMBING

Push-To-Connect Fittings & Metal Manifolds

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Details on page A1.



Silicone-Free Nickel-Plated Brass Push-To-Connect Fittings

- Max. working pressure: 7 to 435 psi
- Working temp. range: -4° to 302°F
- FKM O-ring

Fittings are easy to install, connect, and disconnect. The high phosphorus chemical nickel plating resists abrasion, chemicals, and corrosion. Fittings are ideal for aggressive environments such as in welding applications where fittings must remain intact even if hit by weld spatter. FDA approved for use in food processing applications.



Tube Size	Pipe Size - Pipe Fitting	Female Connector, Tube x BSPP Item No.	Male Branch Tee, Tube x BSPP Item No.	Male Branch Tee, Tube x Male BSPT Item No.	Pipe Size - Pipe Fitting	90° Swivel Male Elbow, Tube x MNPT Item No.	Male Connector, Tube x MNPT Item No.
1/4 in	1/8 in	18E470	—	3ZNP3	1/2 in	3ZNT1	3ZNU9
1/4 in	1/4 in	18E471	—	3ZNP4	3/8 in	3ZNT2	3ZNV1
3/8 in	1/2 in	18E472	18E499	—	1/2 in	3ZNT3	3ZNV2
3/8 in	3/4 in	18E473	—	3ZNP5	3/4 in	3ZNT4	3ZNV3
1/2 in	1/2 in	—	—	—	1/2 in	3ZNT5	3ZNV4
1/2 in	3/4 in	—	—	—	3/4 in	3ZNT6	3ZNV5
3/4 in	1/2 in	—	—	—	1/2 in	3ZNT7	3ZNV6
3/4 in	3/4 in	—	—	—	3/4 in	3ZNT8	3ZNV7

Tube Size	Pipe Size - Pipe Fitting	90° Male Elbow, Tube x BSPP Item No.	90° Male Swivel Elbow, Tube x BSPT Item No.
1/2 in	1/8 in	18E485	3ZNR4
1/2 in	1/4 in	18E486	3ZNR5
3/8 in	M5	18E487	—
3/8 in	10/32 in	18E488	—
3/8 in	M6	18E489	—
1/2 in	1/8 in	18E490	—
1/2 in	1/4 in	18E491	—
1/2 in	M10	18E492	—
3/4 in	1/8 in	18E493	—
3/4 in	1/4 in	18E494	—
3/4 in	3/8 in	18E495	—
1/2 in	1/2 in	18E496	—
1/2 in	3/8 in	18E497	18E481
1/2 in	1/4 in	18E498	—
6mm	1/8 in	—	3ZNR6
6mm	1/4 in	—	3ZNR7
8mm	1/4 in	—	3ZNR8
8mm	3/8 in	—	18E479
10mm	1/4 in	—	3ZNR9
12mm	1/4 in	—	18E482
12mm	3/8 in	—	18E483
12mm	1/2 in	—	18E484

Tube Size	90° Union Elbow, Tube x Tube Item No.	Union Tee, Tube x Tube Item No.	Union, Tube x Tube Item No.	Straight Union, Tube x Tube Item No.
1/2 in	—	3ZNL5	3ZNN3	—
1/4 in	3ZNL8	3ZNL9	3ZNN4	—
1/4 in	3ZNL2	—	3ZNN8	—
3/8 in	3ZNL9	3ZNL7	3ZNN5	—
3/8 in	3ZNL3	3ZNN1	—	—
1/2 in	—	3ZNL8	3ZNN6	—
1/2 in	18E501	18E502	—	18E503
1/2 in	3ZNL4	3ZNN2	3ZNP1	—
6mm	—	3ZNL6	—	—

Tube Size	Bulkhead Union, Tube x Tube Item No.	Plug-In Adapter, Tube x Tube Item No.	Adapter, Tube x Tube Item No.
1/2 in	18E474	—	—
1/2 in	18E475	—	—
1/4 in x 1/4" Adaptor	—	3ZNT9	—
1/4 in x 8mm Adaptor	18E476	—	18E504
3/8 in	—	—	—
3/8 in x 10mm Adaptor	—	—	18E505
1/2 in	18E477	—	—

Tube Size	Pipe Size - Pipe Fitting	Male Connector, Tube x BSPP Item No.	Male Connector, Tube x BSPT Item No.
1/2 in	1/8 in	18E451	3ZNU3
1/2 in	1/4 in	18E452	3ZNU4
3/8 in	M5	18E453	—
3/8 in	10/32 in	18E454	—
3/8 in	M6	18E455	—
1/2 in	M8	18E456	—
1/2 in	1/8 in	18E457	3ZNU5
1/2 in	1/4 in	18E458	3ZNU6
1/2 in	M5	18E459	—
1/2 in	M10	18E460	—
3/4 in	1/8 in	18E461	18E442
3/4 in	1/4 in	18E462	3ZNU7
3/4 in	3/8 in	18E463	18E443
1/2 in	1/2 in	18E464	3ZNU8
1/2 in	3/8 in	18E465	18E444
1/2 in	1/2 in	18E466	18E445



Metal Manifolds

- Max. pressure: 1000 psi, except stainless steel are 3500 psi
- Temp. range: -10° to 200°F, except stainless steel are -100° to 500°F
- Mounting hole: 49AV63 to 49AV90 are 0.26", stainless steel are 0.20"

Simple tube run design and layout reduces clutter, eases troubleshooting, and provides the basis for orderly tube runs. FNPT connections. Models with 90° port orientation allow manifolds to be configured and mounted in difficult applications. All are for use with air, water, and hydraulic oils, except black anodized aluminum are also for use with natural gas and gasoline.



No. of Outlets	Inlet Size	Outlet Size	Overall Length	Overall Width	Overall Height	Mounting Hole Size	Black Anodized Aluminum Item No.	Black Anodized Aluminum w/90° Ports Item No.	Aluminum Item No.	Aluminum w/90° Ports Item No.
2	1/4 in	1/8 in	1 1/4 in	1 in	1 in	0.17 in	2KGZ2	2KHA1	49AV63	—
2	1/2 in	1/4 in	2 1/8 in	1 1/4 in	1 1/4 in	0.2 in	2KHA7	2KHC6	49AV70	—
3	1/2 in	3/8 in	2 3/4 in	1 1/2 in	1 1/2 in	0.2 in	2KHD4	2KHE3	49AV64	—
3	3/4 in	1/2 in	4 3/8 in	1 1/2 in	1 1/2 in	0.2 in	2KHH2	—	49AV71	—
3	1/2 in	1/8 in	2 1/2 in	1 in	1 in	0.17 in	2KGZ3	2KHA2	49AV65	49AV77
3	3/8 in	1/4 in	3 in	1 1/4 in	1 1/4 in	0.2 in	2KHA8	2KHC7	49AV72	—
3	1/2 in	3/8 in	3 3/4 in	1 1/2 in	1 1/2 in	0.2 in	2KHD5	2KHE4	49AV66	—
3	3/4 in	3/8 in	5 3/4 in	1 1/2 in	1 1/2 in	0.2 in	2KHH3	—	49AV73	—
3	1/2 in	1/8 in	3 1/4 in	1 in	1 in	0.17 in	2KGZ4	2KHA3	49AV74	49AV78
3	3/8 in	1/4 in	3 7/8 in	1 1/4 in	1 1/4 in	0.2 in	2KHA9	2KHC8	49AV75	—
3	1/2 in	3/8 in	4 3/4 in	1 1/2 in	1 1/2 in	0.2 in	2KHD6	2KHE5	49AV68	—
3	3/4 in	3/8 in	6 7/8 in	1 1/2 in	1 1/2 in	0.2 in	2KHH4	—	49AV76	—
3	1/2 in	1/8 in	4 in	1 in	1 in	0.17 in	2KGZ5	2KHA4	49AV69	49AV79
3	3/8 in	1/4 in	4 3/4 in	1 1/4 in	1 1/4 in	0.2 in	2KHC1	2KHC9	—	—
3	1/2 in	3/8 in	5 3/4 in	1 1/2 in	1 1/2 in	0.2 in	2KHD7	2KHE6	49AV86	—
3	3/4 in	3/8 in	8 in	1 1/2 in	1 1/2 in	0.2 in	2KHH5	—	49AV80	—
3	1/2 in	1/8 in	4 3/4 in	1 in	1 in	0.17 in	2KGZ6	2KHA5	49AV87	—
3	3/8 in	1/4 in	5 5/8 in	1 1/4 in	1 1/4 in	0.2 in	2KHC2	2KHC7	49AV81	—
3	1/2 in	3/8 in	6 3/4 in	1 1/2 in	1 1/2 in	0.2 in	2KHD8	2KHE7	49AV88	—
3	3/4 in	3/8 in	9 7/8 in	1 1/2 in	1 1/2 in	0.2 in	2KHH6	—	49AV82	—
3	1/2 in	1/8 in	5 1/2 in	1 in	1 in	0.17 in	2KGZ7	—	49AV89	—
3	3/8 in	1/4 in	6 1/2 in	1 1/4 in	1 1/4 in	0.2 in	2KHC3	—	49AV83	—
3	1/2 in	3/8 in	7 3/4 in	1 1/2 in	1 1/2 in	0.2 in	2KHD9	—	49AV90	—
3	3/4 in	3/8 in	6 3/4 in	1 in	1 in	0.17 in	2KGZ8	2KHA6	—	—
3	1/2 in	1/8 in	7 3/8 in	1 1/4 in	1 1/4 in	0.2 in	2KHC4	2KHD2	—	—
3	3/4 in	3/8 in	8 3/4 in	1 1/2 in	1 1/2 in	0.2 in	2KHE1	2KHE8	—	—
3	1/2 in	1/8 in	11 3/8 in	1 1/2 in	1 1/2 in	0.2 in	2KHH7	—	—	—
3	3/4 in	3/8 in	7 3/4 in	1 in	1 in	0.17 in	2KGZ9	—	—	—
3	1/2 in	1/8 in	9 7/8 in	1 1/4 in	1 1/4 in	0.2 in	2KHC5	2KHD3	—	—
3	3/4 in	3/8 in	10 3/4 in	1 1/2 in	1 1/2 in	0.2 in	2KHE2	2KHE9	—	—
3	1/2 in	1/8 in	13 3/8 in	1 1/2 in	1 1/2 in	0.2 in	2KHH8	—	—	—

No. of Outlets	Inlet Size	Outlet Size	Overall Length	Overall Width	Overall Height	Stainless Steel Item No.
2	3/8 in	1/4 in	2 1/8 in	1 1/4 in	1 1/4 in	2KHL7
4	3/8 in	1/4 in	3 7/8 in	1 1/4 in	1 1/4 in	2KHL8
6	3/8 in	1/4 in	5 7/8 in	1 1/4 in	1 1/4 in	2KHL9
8	3/8 in	1/4 in	7 7/8 in	1 1/4 in	1 1/4 in	2KHN1
10	3/8 in	1/4 in	9 7/8 in	1 1/4 in	1 1/4 in	2KHN2