



Application/Selection Guide

Fittings Solutions You Can Trust!

Your fluid handling system isn't complete without fittings to connect tubing lines, equipment, and containers. Cole-Parmer has one of the largest selections in the industry—we have the right fitting for your needs. If you can't find the right fitting in our catalog, you can contact us; we constantly update our product

offering to add new items. You can also contact our Applications Specialists—with a stunning 99.97% accuracy rate, they can help you find the fitting you need.

For specific sizes and materials available, please see each section:

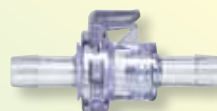
KEY INFORMATION



Barbed fittings
 Pages 510–524



Flare compression fittings
 Contact us for details



Quick-disconnect couplings
 Pages 549–559



High-pressure chromatography fittings (4000 to 10,000 psi)
 Page 572



Microbore tubing connectors
 Page 525



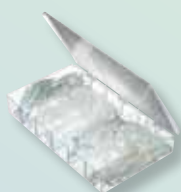
Threaded fittings
 Pages 537–541



**Push-to-connect/
 John Guest® fittings**
 Pages 560–561



PTFE fittings and filters (1000 psi max)
 Pages 573–574



Fitting kits
 Page 548



Flexible PVC fittings
 Contact us for details



Sanitary clamp fittings
 Pages 567–568



Dispensing nozzles
 Page 574



Compression fittings
 Pages 526–536



Luer fittings
 Pages 542–547



Sanitary gaskets
 Pages 569–571



Cam couplers
 Contact us for details

MORE online!

For technical information about selecting and using moisture equipment, go to . . .
ColeParmer.com/chemchart



Scan the code!
 Use your mobile device to scan this QR code and go directly to the URL above.

Certificates of Compliance

Cole-Parmer will provide a certificate of resin or elastomer compliance FREE at your request with each order of fittings, gaskets, or tubing. Certificates list your company's PO number, order reference number, catalog number, formulation, compound number, lot number (where applicable), and the regulations and agencies the fitting, gasket, or tubing complies with, including FDA, USP, USDA, National Formulary, NSF International, GMP, and 3A. Look for the red "compliance star" icon throughout this catalog to identify when a certificate of compliance is available.

compliance certificate 

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Barbed Fittings

Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low-pressure applications (generally less than 30 psi). Order tubing on pages 1823–1859.

Brass. Good chemical resistance. Temp range: –85 to 250°F (–65 to 121°C). Not recommended for sterilization.

High-Density Polyethylene (HDPE). Very good chemical resistance. Temp range: –65 to 150°F (–53 to 65°C). Sterilize by ethylene oxide only.

PVDF. Excellent chemical resistance. Temp range: –80 to 265°F (–62 to 129°C). Sterilize by ethylene oxide or autoclave.

Nylon. Good chemical resistance. Temp range: –50 to 250°F (–46 to 121°C). Sterilize by ethylene oxide only.

PFA. Excellent chemical resistance. Temp range: 0 to 400°F (–17 to 204°C). Sterilize by ethylene oxide or autoclave.

Polypropylene (PP). Very good chemical resistance. Temp range: 9 to 180°F (–13 to 66°C). Sterilize by ethylene oxide or gamma irradiation.

Black: Temp range: 9 to 180°F (–13 to 66°C). Sterilize by ethylene oxide or autoclave.

Clear: Temp range: 32 to 275°F (0 to 135°C). Sterilize by ethylene oxide or autoclave.

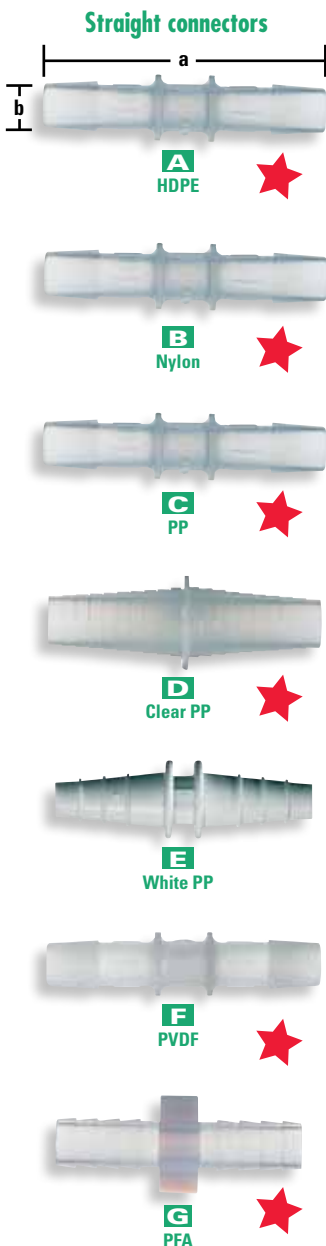
White: Temp range: 9 to 180°F (–13 to 66°C). Sterilize by autoclave only.

PVC. Good chemical resistance. Rated at 340 psi at 77°F (25°C). Temp range: –10 to 140°F (–23 to 60°C). Sterilize by ethylene oxide only.

Stainless Steel (316 SS). Very good chemical resistance. Rated at 200 psi at 77°F (25°C). Temp range: –40 to 200°F (–40 to 93°C). Sterilize by ethylene oxide, autoclave, or gamma irradiation.

FREE certificate of compliance is available for noted fittings on this page.

See page 509.



Tubing ID	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ pk	Price/ pk
Straight connectors											
1/16"	HDPE	A	1/2"	1/8"	1/32"	TW-30622-47	10		TW-30626-47	100	
1/16"	Nylon	B	1/2"	1/8"	1/32"	TW-30622-48	10		TW-30626-48	250	
1/16"	PP	C	1/2"	1/8"	1/32"	TW-40622-49	10		TW-40626-49	100	
1/16"	Clear PP	D	25/32"	1/4"	1/32"	TW-06365-11	25		TW-30506-00	250	
1/16"	PVDF	F	1/2"	1/8"	1/32"	TW-30703-00	10		TW-30803-00	100	
3/32"	HDPE	A	3/4"	3/16"	1/16"	TW-30622-44	10		TW-30626-44	100	
3/32"	Nylon	B	3/4"	3/16"	1/16"	TW-30622-45	10		TW-30626-45	100	
3/32"	PP	C	3/4"	3/16"	1/16"	TW-40622-46	10		TW-40626-46	100	
3/32"	Clear PP	D	3/4"	3/16"	1/16"	TW-06365-33	10		TW-30506-01	250	
3/32"	PVDF	F	3/4"	3/16"	1/16"	TW-30703-01	10		TW-30803-01	100	
1/8"	HDPE	A	31/32"	5/32"	1/16"	TW-30622-53	10		TW-30626-53	100	
1/8"	Nylon	B	31/32"	5/32"	1/16"	TW-30622-54	10		TW-30626-54	100	
1/8"	PP	C	31/32"	5/32"	1/16"	TW-41518-05	10		—	—	—
1/8"	Clear PP	D	1 1/4"	3/8"	1/16"	TW-06365-22	12		TW-30506-02	120	
1/8"	PVDF	F	1"	7/32"	3/32"	TW-30703-02	10		TW-30803-02	100	
1/8"	316 SS	H	13/16"	1/4"	3/32"	TW-30620-01	1		—	—	—
5/32"	HDPE	A	1 1/4"	3/16"	3/32"	TW-30622-50	10		TW-30626-50	100	
5/32"	Nylon	B	1 1/4"	3/16"	3/32"	TW-30622-51	10		TW-30626-51	100	
5/32"	PP	C	1 1/4"	3/16"	3/32"	TW-40622-52	10		TW-40626-52	100	
5/32"	PVDF	F	1 1/4"	3/16"	3/32"	TW-30703-03	10		—	—	—
5/32"	PFA	G	1 1/16"	3/16"	1/16"	TW-06383-95	1		—	—	—
4–5.25 mm	White PP	E	39 mm	13 mm	2 mm	TW-06288-10	10		TW-30601-00	100	
3/16"	HDPE	A	1 3/8"	7/32"	3/32"	TW-30622-55	10		TW-30626-55	100	
3/16"	Nylon	B	1 3/8"	7/32"	3/32"	TW-30622-56	10		TW-30626-56	100	
3/16"	PP	C	1 3/8"	7/32"	3/32"	TW-40622-57	10		TW-40626-57	100	
3/16"	PVDF	F	1 3/8"	7/32"	3/32"	TW-30703-04	10		—	—	—
3/16"	316 SS	H	1 1/16"	3/16"	3/32"	TW-30620-03	1		—	—	—
5 mm	Clear PP	D	52 mm	16 mm	2 mm	TW-06459-10	12		TW-30605-01	120	
6 mm	Clear PP	D	52 mm	16 mm	5 mm	TW-06459-20	12		TW-30605-02	120	
6–8 mm	White PP	E	52 mm	13 mm	3 mm	TW-06288-20	10		TW-30601-01	100	
1/4"	HDPE	A	1 15/16"	9/32"	1/8"	TW-30621-85	10		TW-30625-85	100	
1/4"	Nylon	B	1 15/16"	9/32"	1/8"	TW-30621-86	10		TW-30625-86	100	
1/4"	PP	C	1 15/16"	9/32"	1/8"	TW-40610-00	10		TW-40640-00	100	
1/4"	PVDF	F	1 15/16"	9/32"	1/8"	TW-30703-05	10		—	—	—
1/4"	PFA	G	1 3/4"	1/4"	1/8"	TW-06383-96	1		—	—	—
1/4"	316 SS	H	1 15/16"	7/16"	3/16"	TW-30620-04	1		—	—	—
5/16"	HDPE	A	2 1/8"	1 1/32"	3/16"	TW-30621-87	10		TW-30625-87	100	
5/16"	Nylon	B	2 1/8"	1 1/32"	3/16"	TW-30621-88	10		TW-30625-88	100	
5/16"	PP	C	2 1/8"	1 1/32"	3/16"	TW-40610-01	10		TW-40640-01	100	
5/16"	PVDF	F	2 1/8"	1 1/32"	3/16"	TW-30703-06	10		—	—	—
5/16"	316 SS	G	1 11/16"	3/8"	1/8"	TW-30620-02	1		—	—	—
8–10 mm	White PP	E	59 mm	16 mm	4 mm	TW-06288-30	10		TW-30601-02	100	
9 mm	Clear PP	D	62 mm	16 mm	7 mm	TW-06459-30	12		TW-30605-03	120	
3/8"	HDPE	A	2 3/32"	1 3/32"	1/4"	TW-30621-89	10		TW-30625-89	100	
3/8"	Nylon	B	2 3/32"	1 3/32"	1/4"	TW-30621-90	10		TW-30625-90	100	
3/8"	PP	C	2 3/32"	1 3/32"	1/4"	TW-40610-02	10		TW-40640-02	100	
3/8"	PVDF	F	2 3/32"	1 3/32"	1/4"	TW-30703-07	10		—	—	—
3/8"	PFA	G	1 3/4"	3/8"	1/4"	TW-06383-97	1		—	—	—
3/8"	316 SS	H	2 3/16"	9/16"	5/16"	TW-30620-05	1		—	—	—
10–12 mm	White PP	E	59 mm	18 mm	6 mm	TW-06288-40	10		TW-30601-03	100	
12–14 mm	White PP	E	66 mm	20 mm	8 mm	TW-06288-50	10		TW-30601-04	100	

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Fittings
Barbed, Straight / Reducing



Tubing ID	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
Straight connectors—continued											
1/2"	HDPE	A	2 5/8"	9/16"	1 1/32"	TW-30621-92	10		TW-30625-92	100	
1/2"	Nylon	B	2 5/8"	9/16"	1 1/32"	TW-30621-93	10		TW-30625-93	100	
1/2"	PP	C	2 5/8"	9/16"	1 1/32"	TW-40610-03	10		TW-40640-03	100	
1/2"	PVDF	F	2 5/8"	9/16"	1 1/32"	TW-30703-08	10		—	—	—
1/2"	316 SS	H	2 3/8"	1 1/16"	3/8"	TW-30620-06	1		—	—	—
13 mm	Clear PP	D	62 mm	22 mm	9 mm	TW-06459-40	12		TW-30605-04	120	
5/8"	HDPE	A	2 3/32"	1 1/16"	1 9/32"	TW-30621-79	10		TW-30625-79	100	
5/8"	Nylon	B	2 3/32"	1 1/16"	1 9/32"	TW-30621-80	10		TW-30625-80	100	
5/8"	PP	C	2 3/32"	1 1/16"	1 9/32"	TW-40610-04	10		TW-40640-04	100	
5/8"	PVDF	F	2 3/32"	1 1/16"	1 9/32"	TW-30703-09	10		—	—	—
5/8"	316 SS	H	2 1/8"	1 3/16"	1 1/16"	TW-30620-07	1		—	—	—
3/4"	HDPE	A	3 5/16"	2 7/32"	9/16"	TW-30621-81	10		TW-30625-81	100	
3/4"	Nylon	B	3 5/16"	2 7/32"	9/16"	TW-30621-82	10		TW-30625-82	100	
3/4"	PP	C	3 5/16"	2 7/32"	9/16"	TW-40610-05	5		TW-40640-05	50	
3/4"	PVDF	F	3 5/16"	2 7/32"	9/16"	TW-30703-10	5		—	—	—
3/4"	316 SS	H	3 1/2"	1 1/16"	1 1/16"	TW-30620-08	1		—	—	—
14–16 mm	White PP	E	66 mm	22 mm	10 mm	TW-06288-60	10		TW-30601-05	100	
1"	HDPE	A	4"	1 3/32"	2 9/32"	TW-30621-83	10		TW-30625-83	100	
1"	Nylon	B	4"	1 3/32"	2 9/32"	TW-30621-84	10		TW-30625-84	100	
1"	PP	C	4"	1 3/32"	2 9/32"	TW-40610-06	5		TW-40640-06	50	
1"	PVDF	F	4"	1 3/32"	2 9/32"	TW-30703-11	5		—	—	—
1 1/4"	Nylon	B	1 5/16"	1/2"	1 3/32"	TW-31408-00	5		TW-31418-00	50	
1 1/4"	Black PP	I	1 5/16"	1/2"	1 3/32"	TW-31407-00	5		TW-31417-00	50	
1 1/2"	Nylon	B	1 1/2"	1 1/32"	1 1 1/32"	TW-31408-01	5		TW-31418-01	50	
1 1/2"	Black PP	I	1 1/8"	1 7/32"	1 1 5/32"	TW-31407-01	5		TW-31417-01	50	
2"	Nylon	B	2 2 5/32"	1 3/16"	1 2 9/32"	TW-31408-02	5		TW-31418-02	50	
2"	Black PP	I	2 2 5/32"	1 3/16"	1 2 9/32"	TW-31407-02	5		TW-31417-02	50	
Reducing connectors											
3/32" x 1/16"	HDPE	J	2 3/32"	1/8"	1/32"	TW-31518-22	10		—	—	—
3/32" x 1/16"	Nylon	K	2 3/32"	1/8"	1/32"	TW-30621-94	25		TW-30625-94	250	
3/32" x 1/16"	PP	L	2 3/32"	1/8"	1/32"	TW-40621-95	25		TW-40625-95	250	
3/32" x 1/16"	PVDF	N	2 3/32"	1/8"	1/32"	TW-30703-40	10		TW-30803-40	100	
1/8" x 1/16"	HDPE	J	1 3/16"	5/32"	1/32"	TW-31518-29	10		—	—	—
1/8" x 1/16"	Nylon	K	1 3/16"	5/32"	1/32"	TW-30622-22	25		TW-30626-22	250	
1/8" x 1/16"	PP	L	1 3/16"	5/32"	1/32"	TW-40622-23	25		TW-40626-23	250	
1/8" x 1/16"	PVDF	N	1 3/16"	5/32"	1/32"	TW-30703-41	10		TW-30803-41	100	
1/8" x 1/16"	316 SS	O	1 1/8"	1/4"	1/8"	TW-30620-09	1		—	—	—
1/8" x 3/32"	HDPE	J	7/8"	5/32"	1/16"	TW-31518-31	10		—	—	—
1/8" x 3/32"	Nylon	K	7/8"	5/32"	1/16"	TW-30622-20	25		TW-30626-20	250	
1/8" x 3/32"	PP	L	7/8"	5/32"	1/16"	TW-40622-21	25		TW-40626-21	250	
1/8" x 3/32"	PVDF	N	2 9/32"	7/32"	1/16"	TW-30703-42	10		TW-30803-42	100	
1/8" x 3/16"	316 SS	O	1 1 3/16"	7/16"	1/8"	TW-30620-10	1		—	—	—
3/16" x 1/16"	PVDF	N	1 1/16"	3/8"	1/32"	TW-30703-46	10		—	—	—
3/16" x 3/32"	PVDF	N	1 1/8"	3/8"	1/16"	TW-30703-47	10		—	—	—
3/16" x 1/8"	HDPE	J	1 1/4"	3/8"	1/16"	TW-31518-33	10		—	—	—
3/16" x 1/8"	PP	L	1 1/4"	3/8"	1/16"	TW-41518-34	10		—	—	—
3/16" x 1/8"	PVDF	N	1 1/4"	3/8"	1/16"	TW-30703-48	10		—	—	—
3/16" x 5/32"	PVDF	N	1 1 1/32"	3/8"	3/32"	TW-30703-49	10		—	—	—
1/4" x 1/8"	HDPE	J	1 1 9/32"	9/32"	1/16"	TW-30622-27	10		TW-30626-27	100	
1/4" x 1/8"	Nylon	K	1 1 9/32"	9/32"	1/16"	TW-30622-28	10		TW-30626-28	100	
1/4" x 1/8"	PP	L	1 1 9/32"	9/32"	1/16"	TW-41518-36	10		—	—	—
1/4" x 1/8"	PVDF	N	1 1 9/32"	9/32"	1/16"	TW-30703-50	10		—	—	—
1/4" x 5/32"	HDPE	J	1 2 1/32"	9/32"	1/16"	TW-30622-24	10		TW-30626-24	100	
1/4" x 5/32"	Nylon	K	1 2 1/32"	9/32"	1/16"	TW-30622-25	10		TW-30626-25	100	
1/4" x 5/32"	PP	L	1 2 1/32"	9/32"	1/16"	TW-40622-26	10		TW-40626-26	250	
1/4" x 5/32"	PVDF	N	1 2 1/32"	9/32"	1/16"	TW-30703-51	10		—	—	—
1/4" x 3/16"	HDPE	J	1 1 1/16"	9/32"	3/32"	TW-30622-29	10		TW-30626-29	100	
1/4" x 3/16"	Nylon	K	1 1 1/16"	9/32"	3/32"	TW-30622-30	10		TW-30626-30	100	
1/4" x 3/16"	PP	L	1 1 1/16"	9/32"	3/32"	TW-40622-32	10		TW-40626-32	100	
1/4" x 3/16"	PVDF	N	1 1 1/16"	9/32"	3/32"	TW-30703-52	10		—	—	—
5/16" x 1/4"	HDPE	J	2 1/16"	1 1/32"	1/8"	TW-30622-33	10		TW-30626-33	100	
5/16" x 1/4"	Nylon	K	2 1/16"	1 1/32"	1/8"	TW-30622-34	10		TW-30626-34	100	
5/16" x 1/4"	PP	L	2 1/16"	1 1/32"	1/8"	TW-40610-07	10		TW-40640-07	100	
5/16" x 1/4"	PVDF	N	2 1/16"	1 1/32"	1/8"	TW-30703-53	10		—	—	—
3/8" x 1/4"	HDPE	J	2 1/32"	9/16"	1/8"	TW-30622-35	10		TW-30626-35	100	
3/8" x 1/4"	Nylon	K	2 1/32"	9/16"	1/8"	TW-30703-99	10		—	—	—
3/8" x 1/4"	PP	L	2 1/32"	9/16"	1/8"	TW-40610-08	10		TW-40640-08	100	
3/8" x 1/4"	PVDF	N	2 1/32"	9/16"	1/8"	TW-30703-54	10		—	—	—

Straight connectors
(continued)

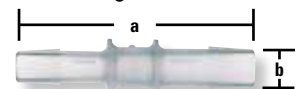


H
316 SS



I
Black PP

Reducing connectors



J
HDPE



K
Nylon



L
PP



M
Clear PP



N
PVDF



O
316 SS

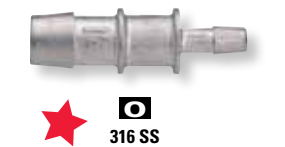
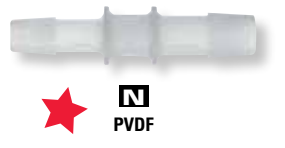
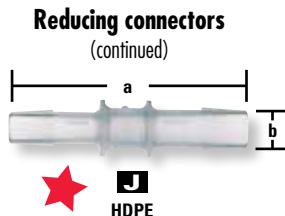
FREE certificate of compliance is available for noted fittings on this page. **See page 509.**

See next page for more...

Barbed Fittings (continued)

Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low-pressure applications (generally less than 30 psi). Order tubing on pages 1823–1859.
For material descriptions, refer to page 510.

FREE certificate of compliance is available for noted fittings on these pages. **See page 509.**



Tubing ID	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
Reducing connectors—continued											
3/8" x 5/16"	HDPE	J	2 1/4"	1 3/32"	3/16"	TW-30622-36	10		TW-30626-36	100	
3/8" x 3/16"	PP	L	2 1/4"	1 3/32"	3/16"	TW-40610-09	10		TW-40640-09	100	
3/8" x 5/16"	PVDF	N	2 1/4"	1 3/32"	3/16"	TW-30703-55	10		—	—	—
5/32" x 1/16"	PVDF	N	3 1/32"	5/16"	1/32"	TW-30703-43	10		—	—	—
5/32" x 3/32"	PVDF	N	1 1/2"	5/16"	1/16"	TW-30703-44	10		—	—	—
5/32" x 1/8"	HDPE	J	1 3/16"	3/16"	1/16"	TW-30622-17	10		TW-30626-17	100	
5/32" x 1/8"	Nylon	K	1 3/16"	3/16"	1/16"	TW-30622-18	10		TW-30626-18	100	
5/32" x 1/8"	PP	L	1 3/16"	3/16"	1/16"	TW-40622-19	10		TW-40626-19	100	
5/32" x 1/8"	PVDF	N	1 3/16"	3/16"	1/16"	TW-30703-45	10		—	—	—
6 mm x 5 mm	Clear PP	M	652 mm	16 mm	2 mm	TW-06458-10	12		—	—	—
9 mm x 5 mm	Clear PP	M	957 mm	18 mm	2 mm	TW-06458-20	12		—	—	—
9 mm x 6 mm	Clear PP	M	957 mm	18 mm	4 mm	TW-06458-40	12		—	—	—
1/2" x 1/4"	HDPE	J	2 1/16"	9/16"	1/8"	TW-30622-38	10		TW-30626-38	100	
1/2" x 1/4"	Nylon	K	2 1/16"	9/16"	1/8"	TW-30622-39	10		TW-30626-39	100	
1/2" x 1/4"	PP	L	2 1/16"	9/16"	1/8"	TW-40610-10	10		TW-40640-10	100	
1/2" x 1/4"	PVDF	N	2 1/16"	9/16"	1/8"	TW-30703-56	10		—	—	—
1/2" x 1/4"	316 SS	O	2 3/8"	1 1/16"	3/16"	TW-30620-11	1		—	—	—
1/2" x 3/16"	HDPE	J	2 1 3/32"	9/16"	3/16"	TW-30622-40	10		TW-30626-40	100	
1/2" x 5/16"	Nylon	K	2 1 3/32"	9/16"	3/16"	TW-30622-41	10		TW-30626-41	100	
1/2" x 5/16"	PP	L	2 1 3/32"	9/16"	3/16"	TW-40610-11	10		TW-40640-11	100	
1/2" x 3/16"	PVDF	N	2 1 3/32"	9/16"	3/16"	TW-30703-57	10		—	—	—
1/2" x 3/8"	HDPE	J	2 1 7/32"	9/16"	1/4"	TW-30622-42	10		TW-30626-42	100	
1/2" x 3/8"	Nylon	K	2 1 7/32"	9/16"	1/4"	TW-30622-43	10		TW-30626-43	100	
1/2" x 3/8"	PP	L	2 1 7/32"	9/16"	1/4"	TW-40610-12	10		TW-40640-12	100	
1/2" x 3/8"	PVDF	N	2 1 7/32"	9/16"	1/4"	TW-30703-58	10		—	—	—
13 mm x 5 mm	Clear PP	M	157 mm	20 mm	2 mm	TW-06458-30	12		—	—	—
13 mm x 6 mm	Clear PP	M	156 mm	16 mm	4 mm	TW-06458-50	12		—	—	—
13 mm x 9 mm	Clear PP	M	156 mm	16 mm	7 mm	TW-06458-60	12		—	—	—
5/8" x 1/4"	HDPE	J	2 2 1/32"	1 1/16"	1/8"	TW-30621-96	10		TW-30625-96	100	
5/8" x 1/4"	Nylon	K	2 2 1/32"	1 1/16"	1/8"	TW-30621-97	10		TW-30625-97	100	
5/8" x 1/4"	PP	L	2 2 1/32"	1 1/16"	1/8"	TW-40610-13	10		TW-40640-13	100	
5/8" x 1/4"	PVDF	N	2 2 1/32"	1 1/16"	1/8"	TW-30703-59	10		—	—	—
5/8" x 5/16"	HDPE	J	2 2 3/32"	1 1/16"	3/16"	TW-30621-98	10		TW-30625-98	100	
5/8" x 5/16"	Nylon	K	2 2 3/32"	1 1/16"	3/16"	TW-30621-99	10		TW-30625-99	100	
5/8" x 5/16"	PP	L	2 2 3/32"	1 1/16"	3/16"	TW-40610-14	10		TW-40640-14	100	
5/8" x 5/16"	PVDF	N	2 2 3/32"	1 1/16"	3/16"	TW-30703-60	10		—	—	—
5/8" x 3/8"	HDPE	J	2 3/4"	1 1/16"	1/4"	TW-30622-00	10		TW-30626-00	100	
5/8" x 3/8"	Nylon	K	2 3/4"	1 1/16"	1/4"	TW-30622-02	10		TW-30626-02	100	
5/8" x 3/8"	PP	L	2 3/4"	1 1/16"	1/4"	TW-40610-15	10		TW-40640-15	100	
5/8" x 3/8"	PVDF	N	2 3/4"	1 1/16"	1/4"	TW-30622-01	10		TW-30626-01	50	
5/8" x 1/2"	HDPE	J	2 7/8"	1 1/16"	1 1/32"	TW-30622-03	10		TW-30626-03	100	
5/8" x 1/2"	Nylon	K	2 7/8"	1 1/16"	1 1/32"	TW-30622-04	10		TW-30626-04	100	
5/8" x 1/2"	PP	L	2 7/8"	1 1/16"	1 1/32"	TW-40610-16	10		TW-40640-16	100	
5/8" x 1/2"	PVDF	N	2 7/8"	1 1/16"	1 1/32"	TW-30703-62	10		—	—	—
3/4" x 3/8"	HDPE	J	3"	2 7/32"	1/4"	TW-30622-07	5		TW-30626-07	50	
3/4" x 3/8"	Nylon	K	3"	2 7/32"	1/4"	TW-30622-08	5		TW-30626-08	50	
3/4" x 3/8"	PP	L	3"	2 7/32"	1/4"	TW-40610-17	5		TW-40640-17	50	
3/4" x 3/8"	PVDF	N	3"	2 7/32"	1/4"	TW-30703-63	5		—	—	—
3/4" x 1/2"	HDPE	J	3 3/32"	2 7/32"	1 1/32"	TW-30622-09	5		TW-30626-09	50	
3/4" x 1/2"	Nylon	K	3 3/32"	2 7/32"	1 1/32"	TW-30622-10	5		TW-30626-10	50	
3/4" x 1/2"	PP	L	3 3/32"	2 7/32"	1 1/32"	TW-40610-18	5		TW-40640-18	50	
3/4" x 1/2"	PVDF	N	3 3/32"	2 7/32"	1 1/32"	TW-30703-64	5		—	—	—
3/4" x 1/2"	316 SS	O	3 3/32"	2 7/32"	1 1/32"	TW-30620-12	1		—	—	—
3/4" x 5/8"	HDPE	J	3 7/32"	2 7/32"	1 5/32"	TW-30622-05	5		TW-30626-05	50	
3/4" x 5/8"	Nylon	K	3 7/32"	2 7/32"	1 5/32"	TW-30622-06	5		TW-30626-06	50	
3/4" x 5/8"	PP	L	3 7/32"	2 7/32"	1 5/32"	TW-40610-19	5		TW-40640-19	50	
3/4" x 5/8"	PVDF	N	3 7/32"	2 7/32"	1 5/32"	TW-30703-65	5		—	—	—
3/4" x 5/8"	HDPE	J	3 1 3/32"	1 3/32"	1 1/32"	TW-30622-15	5		TW-30626-15	50	
1" x 1/2"	Nylon	K	3 1 3/32"	1 3/32"	1 1/32"	TW-30622-16	5		TW-30626-16	50	
1" x 1/2"	PP	L	3 1 3/32"	1 3/32"	1 1/32"	TW-40610-20	5		TW-40640-20	50	
1" x 1/2"	PVDF	N	3 1 3/32"	1 3/32"	1 1/32"	TW-30703-66	5		—	—	—
1" x 3/4"	HDPE	J	3 1 1/16"	1 3/32"	1 5/32"	TW-30622-11	5		TW-30626-11	50	
1" x 3/4"	Nylon	K	3 1 1/16"	1 3/32"	1 5/32"	TW-30622-12	5		TW-30626-12	50	
1" x 3/4"	PP	L	3 1 1/16"	1 3/32"	1 5/32"	TW-40610-21	5		TW-40640-21	50	
1" x 3/4"	PVDF	N	3 1 1/16"	1 3/32"	1 5/32"	TW-30703-67	5		—	—	—
1" x 3/4"	HDPE	J	3 3/4"	1 3/32"	9/16"	TW-30622-13	5		TW-30626-13	50	
1" x 3/4"	Nylon	K	3 3/4"	1 3/32"	9/16"	TW-30622-14	5		TW-30626-14	50	
1" x 3/4"	PP	L	3 3/4"	1 3/32"	9/16"	TW-40610-22	5		TW-40640-22	50	
1" x 3/4"	PVDF	N	3 3/4"	1 3/32"	9/16"	TW-30703-68	5		—	—	—

MORE info!
Single barb fittings seal better than multi-barb fittings because they allow the tubing to relax around the barb.

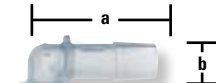


Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low-pressure applications (generally less than 30 psi). Order tubing on pages 1823–1859.

For material descriptions, refer to page 510.

Tubing ID	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ pk	Price/ pk
Elbow connectors											
1/16"	Clear PP	T	15/32"	15/32"	1/32"	TW-06365-17	25		TW-06365-15	100	
1/16"	PVDF	V	9/16"	5/16"	1/32"	TW-30703-20	10		—	—	—
3/32"	HDPE	P	15/32"	15/32"	1/16"	TW-30622-63	10		TW-30626-63	100	
3/32"	Nylon	Q	15/32"	15/32"	1/16"	TW-30623-16	10		TW-30627-16	100	
3/32"	PP	S	15/32"	15/32"	1/16"	TW-40622-64	10		TW-40626-64	100	
3/32"	PVDF	V	15/32"	15/32"	1/16"	TW-30703-21	10		—	—	—
3/32"	Clear PP	T	9/16"	9/16"	1/16"	TW-06365-28	25		TW-06365-25	100	
1/8"	HDPE	P	19/32"	5/8"	3/32"	TW-30622-71	10		TW-30626-71	100	
1/8"	Nylon	Q	19/32"	5/8"	3/32"	TW-30623-18	10		TW-30627-18	100	
1/8"	PP	S	19/32"	5/8"	3/32"	TW-40623-19	10		TW-40627-19	100	
1/8"	PVDF	V	19/32"	5/8"	3/32"	TW-30703-22	10		—	—	—
1/8"	316 SS	W	19/32"	5/8"	3/32"	TW-30620-13	1		—	—	—
3/16"	HDPE	P	25/32"	25/32"	3/32"	TW-30622-72	10		TW-30626-72	100	
3/16"	Nylon	Q	25/32"	25/32"	3/32"	TW-30622-74	10		TW-30626-74	100	
3/16"	PP	S	25/32"	25/32"	3/32"	TW-40622-75	10		TW-40626-75	100	
3/16"	PVDF	V	25/32"	25/32"	3/32"	TW-30622-73	10		TW-30626-73	50	
3/16"	316 SS	W	25/32"	25/32"	3/32"	TW-30620-14	10		—	—	—
4 mm	Clear PP	U	14 mm	14 mm	2 mm	TW-06285-10	20		—	—	—
6 mm	Clear PP	U	21 mm	21 mm	3 mm	TW-06285-20	20		—	—	—
1/4"	HDPE	P	13/32"	11/8"	1/8"	TW-30622-76	10		TW-30626-76	100	
1/4"	Nylon	Q	13/32"	11/8"	1/8"	TW-30622-77	10		TW-30626-77	100	
1/4"	PP	S	13/32"	11/8"	1/8"	TW-40610-23	10		TW-40640-23	100	
1/4"	PVDF	V	13/32"	11/8"	1/8"	TW-30703-25	10		—	—	—
1/4"	316 SS	W	13/32"	11/8"	1/8"	TW-30620-15	1		—	—	—
5/16"	316 SS	W	11/4"	11/4"	3/16"	TW-30620-16	1		—	—	—
8 mm	Clear PP	U	25 mm	25 mm	5 mm	TW-06285-30	20		—	—	—
3/8"	HDPE	P	15/16"	111/32"	7/32"	TW-30622-78	10		TW-30626-78	100	
3/8"	Nylon	Q	15/16"	111/32"	7/32"	TW-30622-79	10		TW-30626-79	100	
3/8"	PP	S	15/16"	111/32"	7/32"	TW-40610-24	10		TW-40640-24	100	
3/8"	PVDF	V	15/16"	111/32"	7/32"	TW-30703-27	10		—	—	—
3/8"	316 SS	W	11/16"	17/16"	5/16"	TW-30620-17	1		—	—	—
10 mm	Clear PP	U	30 mm	30 mm	7 mm	TW-06285-40	20		—	—	—
12 mm	Clear PP	U	35 mm	35 mm	8 mm	TW-06285-50	20		—	—	—
1/2"	HDPE	P	19/16"	19/16"	11/32"	TW-30622-80	10		TW-30626-80	100	
1/2"	Nylon	Q	19/16"	19/16"	11/32"	TW-30622-81	10		TW-30626-81	100	
1/2"	PP	S	19/16"	19/16"	11/32"	TW-40610-25	10		TW-40640-25	100	
1/2"	PVDF	V	19/16"	19/16"	11/32"	TW-30703-28	10		—	—	—
1/2"	316 SS	W	111/16"	19/8"	3/8"	TW-30620-18	1		—	—	—
14 mm	Clear PP	U	42 mm	42 mm	10 mm	TW-06285-60	10		—	—	—
5/8"	HDPE	P	125/32"	113/16"	15/32"	TW-30622-65	10		TW-30626-65	100	
5/8"	Nylon	Q	125/32"	113/16"	15/32"	TW-30622-66	10		TW-30626-66	100	
5/8"	PP	S	125/32"	113/16"	15/32"	TW-40610-26	10		TW-40640-26	100	
5/8"	PVDF	V	125/32"	113/16"	15/32"	TW-30703-29	10		—	—	—
5/8"	316 SS	W	17/8"	17/8"	1/2"	TW-30620-19	1		—	—	—
16 mm	Clear PP	U	48 mm	48 mm	12 mm	TW-06285-70	10		—	—	—
3/4"	HDPE	P	21/32"	21/32"	9/16"	TW-30622-67	10		TW-30626-67	100	
3/4"	Nylon	Q	21/32"	21/32"	9/16"	TW-30622-68	10		TW-30626-68	100	
3/4"	PP	S	21/32"	21/32"	9/16"	TW-40610-27	5		TW-40640-27	50	
3/4"	PVDF	V	21/32"	21/32"	9/16"	TW-30703-30	5		—	—	—
3/4"	316 SS	W	25/16"	25/16"	11/16"	TW-30620-20	1		—	—	—
1"	HDPE	P	21/2"	21/2"	25/32"	TW-30622-69	5		TW-30626-69	50	
1"	PP	S	21/2"	21/2"	25/32"	TW-40610-28	5		TW-40640-28	50	
1"	Nylon	Q	21/2"	21/2"	25/32"	TW-30622-70	5		TW-30626-70	100	
1"	PVDF	V	21/2"	21/2"	25/32"	TW-30703-31	5		—	—	—
11/4"	Nylon	Q	13/16"	15/32"	25/32"	TW-31408-05	5		TW-31418-05	50	
11/4"	Black PP	R	13/16"	15/32"	25/32"	TW-31407-05	5		TW-31417-05	50	
11/2"	Nylon	Q	15/32"	111/32"	1/2"	TW-31408-06	5		TW-31418-06	50	
11/2"	Black PP	R	15/32"	111/32"	1/2"	TW-31407-06	5		TW-31417-06	50	
2"	Nylon	Q	11/2"	311/32"	19/32"	TW-31408-07	5		TW-31418-07	50	
2"	Black PP	R	11/2"	311/32"	19/32"	TW-31407-07	5		TW-31417-07	50	

Elbow connectors



See next page for more...

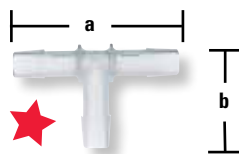
Barbed Fittings (continued)

Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low-pressure applications (generally less than 30 psi). Order tubing on pages 1823–1859.

For material descriptions, refer to page 510.

FREE certificate of compliance is available for noted fittings on these pages. **See page 509.**

T connectors



X
HDPE



Y
Nylon



Z
PP



AA
Clear PP



AB
Clear PP



AC
PVDF



AD
Black PP



AE
316 SS



Tubing ID	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ pk	Price/ pk
T connectors											
1/16"	Nylon	Y	29/32"	25/32"	1/32"	TW-31500-30	25	—	—	—	—
1/16"	HDPE	X	29/32"	15/32"	1/32"	TW-30624-27	10	—	—	—	—
1/16"	Nylon	Y	29/32"	15/32"	1/32"	TW-30624-29	10	—	—	—	—
1/16"	PP	Z	29/32"	15/32"	1/32"	TW-40624-30	10	—	—	—	—
1/16"	Clear PP	AA	29/32"	15/32"	1/32"	TW-06365-77	25	—	TW-30506-15	250	—
1/16"	PVDF	AC	1/2"	5/16"	1/32"	TW-30703-70	10	—	—	—	—
3/32"	HDPE	X	29/32"	15/32"	11/16"	TW-30623-56	10	—	TW-30627-56	100	—
3/32"	Nylon	Y	23/32"	15/32"	11/16"	TW-30624-26	10	—	TW-30628-26	100	—
3/32"	PP	Z	29/32"	15/32"	11/16"	TW-40623-57	10	—	TW-40627-57	100	—
3/32"	PP	Z	29/32"	15/32"	11/16"	TW-40624-28	25	—	TW-40628-29	250	—
3/32"	PVDF	AC	23/32"	15/32"	11/16"	TW-30703-71	10	—	—	—	—
1/8"	HDPE	X	31/32"	19/32"	1/16"	TW-30623-64	10	—	TW-30627-64	100	—
1/8"	Nylon	Y	31/32"	19/32"	1/16"	TW-30623-65	10	—	TW-30627-65	100	—
1/8"	PP	Z	31/32"	19/32"	1/16"	TW-40623-66	25	—	TW-40627-66	250	—
1/8"	PVDF	AC	31/32"	19/32"	1/16"	TW-30703-72	10	—	—	—	—
1/8"	316 SS	AE	19/16"	3/4"	1/8"	TW-30620-25	1	—	—	—	—
4 mm	Clear PP	AB	20 mm	15 mm	2 mm	TW-06294-10	20	—	—	—	—
3/16"	HDPE	X	1 3/8"	25/32"	3/32"	TW-30623-67	10	—	TW-30627-67	100	—
3/16"	Nylon	Y	1 3/8"	25/32"	3/32"	TW-30623-69	10	—	TW-30627-69	100	—
3/16"	PP	Z	1 3/8"	25/32"	3/32"	TW-40623-70	25	—	TW-40627-70	50	—
3/16"	PVDF	AC	1 3/8"	25/32"	3/32"	TW-30624-31	10	—	—	—	—
3/16"	316 SS	AE	1 11/16"	1 1/16"	1/8"	TW-30620-26	1	—	—	—	—
6 mm	Clear PP	AB	30 mm	23 mm	3 mm	TW-06294-20	20	—	—	—	—
1/4"	HDPE	X	1 15/16"	1 1/8"	1/8"	TW-30623-71	10	—	TW-30627-71	100	—
1/4"	Nylon	Y	1 15/16"	1 1/8"	1/8"	TW-30623-72	10	—	TW-30627-72	100	—
1/4"	PP	Z	1 15/16"	1 1/8"	1/8"	TW-40610-30	10	—	TW-40640-30	100	—
1/4"	PVDF	AC	1 15/16"	1 1/8"	1/8"	TW-30703-75	10	—	—	—	—
1/4"	316 SS	AE	1 7/8"	1 1/8"	3/16"	TW-30620-27	1	—	—	—	—
5/16"	HDPE	X	2 1/8"	1 7/32"	3/16"	TW-30623-73	10	—	TW-30627-73	100	—
5/16"	Nylon	Y	2 1/8"	1 7/32"	3/16"	TW-30623-75	10	—	TW-30627-75	100	—
5/16"	PP	Z	2 1/8"	1 7/32"	3/16"	TW-40623-76	10	—	TW-40627-76	100	—
5/16"	PVDF	AC	2 1/8"	1 7/32"	3/16"	TW-30623-74	10	—	TW-30627-74	50	—
5/16"	316 SS	AE	2"	1 1/4"	3/16"	TW-30620-28	1	—	—	—	—
8 mm	Clear PP	AB	40 mm	31 mm	5 mm	TW-06294-30	20	—	—	—	—
3/8"	HDPE	X	2 5/16"	1 15/32"	1/4"	TW-30623-77	10	—	TW-30627-77	100	—
3/8"	Nylon	Y	2 5/16"	1 15/32"	1/4"	TW-30623-78	10	—	TW-30627-78	100	—
3/8"	PP	Z	2 5/16"	1 15/32"	1/4"	TW-40610-31	10	—	TW-40640-31	100	—
3/8"	PVDF	AC	2 9/32"	1 7/16"	1/4"	TW-30703-77	10	—	—	—	—
3/8"	316 SS	AE	2 5/16"	1 7/16"	5/16"	TW-30620-29	1	—	—	—	—
10 mm	Clear PP	AB	55 mm	40 mm	7 mm	TW-06294-40	20	—	—	—	—
1/2"	HDPE	X	2 5/8"	1 9/16"	11/32"	TW-30623-79	10	—	TW-30627-79	100	—
1/2"	Nylon	Y	2 5/8"	1 9/16"	11/32"	TW-30623-80	10	—	TW-30627-80	100	—
1/2"	PP	Z	2 5/8"	1 9/16"	11/32"	TW-40610-32	10	—	TW-40640-32	100	—
1/2"	PVDF	AC	2 5/8"	1 9/16"	11/32"	TW-30703-78	10	—	—	—	—
1/2"	316 SS	AE	2 9/16"	1 11/16"	3/8"	TW-30620-30	1	—	—	—	—
12 mm	Clear PP	AB	70 mm	48 mm	9 mm	TW-06294-50	20	—	—	—	—
5/8"	HDPE	X	2 31/32"	1 19/16"	15/32"	TW-30623-58	10	—	TW-30627-58	100	—
5/8"	Nylon	Y	2 31/32"	1 19/16"	15/32"	TW-30623-59	10	—	TW-30627-59	100	—
5/8"	PP	Z	2 31/32"	1 19/16"	15/32"	TW-40610-33	10	—	TW-40640-33	100	—
5/8"	PVDF	AC	2 31/32"	1 19/16"	15/32"	TW-30703-79	10	—	—	—	—
5/8"	316 SS	AE	2 1/8"	1 7/8"	1/2"	TW-30620-31	1	—	—	—	—
14 mm	Clear PP	AB	79 mm	54 mm	10 mm	TW-06294-60	10	—	—	—	—
3/4"	HDPE	X	3 9/16"	2 1/32"	9/16"	TW-30623-60	10	—	TW-30627-60	100	—
3/4"	Nylon	Y	3 9/16"	2 1/32"	9/16"	TW-30623-61	10	—	TW-30627-61	100	—
3/4"	PP	Z	3 9/16"	2 1/32"	9/16"	TW-40610-34	5	—	TW-40640-34	50	—
3/4"	PVDF	AC	3 9/16"	2 1/32"	9/16"	TW-30703-80	5	—	—	—	—
3/4"	316 SS	AE	3 1/2"	2 5/16"	11/16"	TW-30620-32	1	—	—	—	—
16 mm	Clear PP	AB	89 mm	60 mm	12 mm	TW-06294-70	10	—	—	—	—
1"	HDPE	X	4"	2 1/2"	25/32"	TW-30623-62	10	—	TW-30627-62	100	—
1"	Nylon	Y	4"	2 1/2"	25/32"	TW-30623-63	10	—	—	—	—
1"	PP	Z	4"	2 1/2"	25/32"	TW-40610-35	5	—	TW-40640-35	50	—
1"	PVDF	AC	4"	2 1/2"	25/32"	TW-30703-81	5	—	—	—	—
1 1/4"	Nylon	Y	1 19/32"	25/32"	13/32"	TW-31408-08	5	—	TW-31418-08	50	—
1 1/4"	Black PP	AD	1 19/32"	25/32"	13/32"	TW-31407-08	5	—	TW-31417-08	50	—
1 1/2"	Nylon	Y	2 5/8"	1 1/16"	15/32"	TW-31408-09	5	—	TW-31418-09	50	—
1 1/2"	Black PP	AD	2 1/8"	1 1/16"	15/32"	TW-31407-05	5	—	TW-31417-05	50	—

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Fittings
Barbed, Reducing Tee / Y



Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low- pressure applications (generally less than 30 psi). Order tubing on pages 1823–1859.

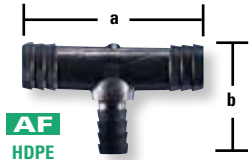
For material descriptions, refer to page 510.

Tubing ID	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ pk	Price/ pk
Reducing T connectors (straight x branch)											
1/16" x 1/8"	316 SS	AI	2 7/32"	3/8"	1/16"	TW-31208-41	1		—	—	—
1/8" x 1/16"	316 SS	AI	2 7/32"	3/8"	1/16"	TW-31208-42	1		—	—	—
3/16" x 1/8"	316 SS	AI	1 5/16"	7/16"	3/32"	TW-31208-44	1		—	—	—
1/4" x 1/8"	316 SS	AI	1 5/16"	1 7/32"	3/32"	TW-31208-45	1		—	—	—
1/4" x 3/8"	316 SS	AI	1 29/34"	1 3/16"	3/16"	TW-31208-46	1		—	—	—
3/8" x 1/8"	316 SS	AI	1 29/64"	1 3/16"	3/32"	TW-31208-47	1		—	—	—
3/8" x 3/16"	HDPE	AF	2 3/16"	1 3/16"	1/16"	TW-31702-47	10		—	—	—
3/8" x 3/16"	Nylon	AG	2 3/16"	1 3/16"	1/16"	TW-31702-45	10		—	—	—
3/8" x 1/4"	Nylon	AG	2 1/16"	1 13/32"	1/4"	TW-31702-57	10		—	—	—
3/8" x 1/4"	316 SS	AI	1 29/64"	1 3/16"	3/16"	TW-31208-48	1		—	—	—
3/8" x 5/16"	316 SS	AI	1 29/64"	1 3/16"	3/16"	TW-30620-33	1		—	—	—
1/2" x 1/4"	Nylon	AG	2 1/16"	1 13/32"	1 1/32"	TW-31702-61	10		TW-31702-62	100	
1/2" x 3/8"	HDPE	AF	2 1/4"	1 3/8"	1 1/32"	TW-30401-56	10		TW-30401-54	100	
3/4" x 3/8"	PVDF	AH	3 15/16"	1 3/4"	1 9/32"	TW-30703-96	10		TW-30703-98	100	
3/4" x 1/2"	HDPE	AF	2 15/16"	1 3/4"	5/16"	TW-30401-59	10		TW-30401-58	100	
5/8" x 3/8"	HDPE	AF	2 7/16"	1 7/16"	3/16"	TW-30401-63	10		TW-30401-62	100	
5/8" x 3/8"	PVDF	AH	3"	1 5/8"	1 9/32"	TW-30703-95	10		TW-30703-97	100	

Y connectors

1/16"	HDPE	AJ	1/2"	3/8"	1/32"	TW-30726-01	10		TW-30727-01	100	
1/16"	Nylon	AK	1/2"	3/8"	1/32"	TW-30726-21	10		TW-30727-21	100	
1/16"	PP	AL	1/2"	3/8"	1/32"	TW-40726-41	10		TW-40727-41	100	
1/16"	PVDF	AO	1/2"	3/8"	1/32"	TW-30703-90	10		TW-30727-61	100	
1/16"	316 SS	AP	1 1/16"	9/16"	1/16"	TW-31209-55	1		—	—	—
3/32"	HDPE	AJ	29/32"	1 7/32"	1/16"	TW-30726-02	10		TW-30727-02	100	
3/32"	Nylon	AK	29/32"	1 7/32"	1/16"	TW-30726-22	10		TW-30727-22	100	
3/32"	PP	AL	29/32"	1 7/32"	1/16"	TW-40726-42	10		TW-40727-42	100	
3/32"	PVDF	AO	29/32"	1 7/32"	1/16"	TW-30703-91	10		TW-30727-62	100	
1/8"	HDPE	AJ	29/32"	1 11/16"	3/32"	TW-30726-03	10		TW-30727-03	100	
1/8"	Nylon	AK	29/32"	1 11/16"	3/32"	TW-30726-23	10		TW-30727-23	100	
1/8"	PP	AL	29/32"	1 11/16"	3/32"	TW-40726-43	10		TW-40727-43	100	
1/8"	PVDF	AO	29/32"	1 11/16"	3/32"	TW-30703-92	10		TW-30727-63	100	
1/8"	316 SS	AP	1 3/32"	1 3/16"	1/16"	TW-30620-21	1		—	—	—
4 mm	Clear PP	AM	24 mm	14 mm	2 mm	TW-06295-10	20		—	—	—
4-6 mm	White PP	AN	32 mm	36 mm	2 mm	TW-06296-10	20		—	—	—
3/16"	HDPE	AJ	1 9/32"	1 15/16"	1/8"	TW-30726-04	10		TW-30727-04	100	
3/16"	Nylon	AK	1 9/32"	1 15/16"	1/8"	TW-30726-24	10		TW-30727-24	100	
3/16"	PP	AL	1 9/32"	1 15/16"	1/8"	TW-40726-44	10		TW-40727-44	100	
3/16"	PVDF	AO	1 9/32"	1 15/16"	1/8"	TW-30726-64	10		TW-30727-64	100	
3/16"	316 SS	AP	1 5/8"	1 3/16"	1/8"	TW-30620-22	1		—	—	—
6 mm	Clear PP	AM	35 mm	21 mm	3 mm	TW-06295-20	20		—	—	—
1/4"	HDPE	AJ	1 15/16"	1 3/8"	1/8"	TW-30726-05	10		TW-30727-05	100	
1/4"	Nylon	AK	1 15/16"	1 3/8"	1/8"	TW-30726-25	10		TW-30727-25	100	
1/4"	PP	AL	1 15/16"	1 3/8"	1/8"	TW-40726-45	10		TW-40727-45	100	
1/4"	PVDF	AO	1 15/16"	1 3/8"	1/8"	TW-30726-65	10		TW-30727-65	100	
6-8 mm	White PP	AN	54 mm	61 mm	3 mm	TW-06296-20	20		—	—	—
5/16"	316 SS	AP	2"	1 1/2"	1 3/64"	TW-30620-23	1		—	—	—
8 mm	Clear PP	AM	54 mm	34 mm	4 mm	TW-06295-30	20		—	—	—
8-10 mm	White PP	AN	49 mm	34 mm	5 mm	TW-06296-00	20		—	—	—
3/8"	HDPE	AJ	1 15/16"	1 3/4"	1/4"	TW-30726-06	10		TW-30727-06	100	
3/8"	Nylon	AK	1 15/16"	1 3/4"	1/4"	TW-30726-26	10		TW-30727-26	100	
3/8"	PP	AL	1 15/16"	1 3/4"	1/4"	TW-40726-46	10		TW-40727-46	100	
3/8"	PVDF	AO	1 15/16"	1 3/4"	1/4"	TW-30703-93	10		TW-30727-66	100	
3/8"	316 SS	AP	2 5/16"	1 29/32"	1/4"	TW-30620-24	10		—	—	—
10 mm	Clear PP	AM	65 mm	40 mm	6 mm	TW-06295-40	20		—	—	—
10-12 mm	White PP	AN	56 mm	35 mm	8 mm	TW-06296-40	20		—	—	—
12 mm	Clear PP	AM	74 mm	47 mm	9 mm	TW-06295-50	20		—	—	—
12-14 mm	White PP	AN	59 mm	36 mm	8 mm	TW-06296-50	20		—	—	—

Reducing T connectors



AF
HDPE



AG
Nylon

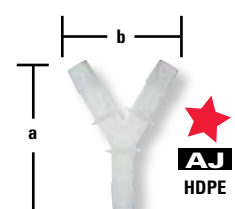


AH
PVDF



AI
316 SS

Y connectors



AJ
HDPE



AK
Nylon



AL
PP



AM
Clear PP



AN
White PP



AO
PVDF



AP
316 SS

MORE info!

Single barb fittings seal better than multi-barb fittings because they allow the tubing to relax around the barb.

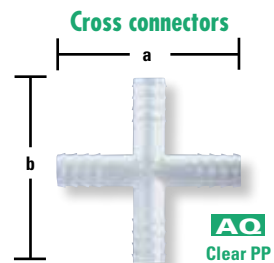
See next page for more...

Barbed Fittings (continued)

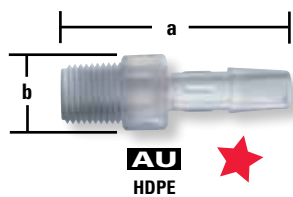
Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low-pressure applications (generally less than 30 psi). Order tubing on pages 1823–1859.

For material descriptions, refer to page 510.

FREE certificate of compliance is available for noted fittings on these pages. **See page 509.**



NPT male threaded adapters



Tubing ID	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
Y connectors—continued											
1/2"	HDPE	AJ	2 1/2"	2 1/16"	2 7/16"	TW-30726-07	10		TW-30727-07	100	
1/2"	Nylon	AK	2 1/2"	2 1/16"	2 7/16"	TW-30726-27	10		TW-30727-27	100	
1/2"	PP	AL	2 1/2"	2 1/16"	2 7/16"	TW-40726-47	10		TW-40727-47	100	
1/2"	PVDF	AO	2 1/2"	2 1/16"	2 7/16"	TW-30703-94	10		TW-30727-67	100	
14 mm	Clear PP	AM	86 mm	54 mm	10 mm	TW-06295-60	20				
14-16 mm	White PP	AN	65 mm	39 mm	10 mm	TW-06296-60	20				
5/8"	HDPE	AJ	2 15/16"	2 3/8"	1/2"	TW-30726-08	10		TW-30727-08	100	
5/8"	Nylon	AK	2 15/16"	2 3/8"	1/2"	TW-30726-28	10		TW-30727-28	100	
5/8"	PP	AL	2 15/16"	2 3/8"	1/2"	TW-30726-48	10		TW-30727-48	100	
5/8"	PVDF	AO	2 15/16"	2 3/8"	1/2"	TW-30726-68	10		TW-30727-68	100	
16 mm	Clear PP	AM	96 mm	61 mm	12 mm	TW-06295-70	20				
Cross connectors											
1/16"	316 SS	AR	5/8"	1 1/16"	1 1/16"	TW-31208-51	1				
3/32"	316 SS	AR	9/8"	1 1/16"	1 1/16"	TW-31208-52	1				
1/8"	316 SS	AR	27/32"	1 5/16"	3/32"	TW-31208-53	1				
4 mm	Clear PP	AQ	25 mm	25 mm	2 mm	TW-06297-10	20				
3/16"	316 SS	AR	1"	1 1/8"	1/8"	TW-31208-54	1				
1/4"	Black PP	AS	1 3/8"	1 5/16"	1/8"	TW-31407-11	5		TW-31417-11	50	
1/4"	Nylon	AT	1 3/8"	1 5/16"	1/8"	TW-31408-11	5		TW-31418-11	50	
6 mm	Clear PP	AQ	35 mm	35 mm	3 mm	TW-06297-20	20				
8 mm	Clear PP	AQ	42 mm	42 mm	4 mm	TW-06297-30	20				
3/8"	316 SS	AR	1 1/16"	1 39/64"	9/32"	TW-31208-55	1				
10 mm	Clear PP	AQ	50 mm	50 mm	6 mm	TW-06297-40	20				
12 mm	Clear PP	AQ	62 mm	62 mm	8 mm	TW-06297-50	20				
14 mm	Clear PP	AQ	74 mm	74 mm	9 mm	TW-06297-60	20				
NPT male threaded adapters, NPT(M) x tubing ID											
1/16" x 1/16"	PVDF	AZ	23/32"	3/8"	1/32"	TW-30704-00	10				
1/16" x 1/16"	316 SS	BC	43/64"	5/16"	1/16"	TW-31208-59	1				
1/16" x 3/32"	PP	AX	13/16"	3/8"	1/16"	TW-30641-01	10				
1/16" x 3/32"	316 SS	BC	43/64"	5/16"	1/16"	TW-31208-60	1				
1/16" x 1/8"	PVDF	AZ	29/32"	3/8"	3/32"	TW-30704-02	10				
1/16" x 1/8"	316 SS	BC	49/64"	5/16"	3/32"	TW-31208-61	1				
1/16" x 3/16"	PVDF	AZ	19/32"	3/8"	1/8"	TW-30704-04	10				
1/16" x 3/16"	316 SS	BC	53/64"	5/16"	1/8"	TW-31208-62	1				
1/16" x 1/4"	316 SS	BC	61/64"	5/16"	3/16"	TW-31208-63	1				
1/8" x 1/16"	Clear PP	AY	3 1/2"	7/16"	1/32"	TW-06365-41	25		TW-30506-20	250	
1/8" x 1/16"	PVDF	AZ	23/32"	1/2"	1/32"	TW-30704-05	10				
1/8" x 1/16"	316 SS	BC	3/4"	7/16"	1/16"	TW-31208-65	1				
1/8" x 3/32"	Clear PP	AY	1"	7/16"	1/16"	TW-06365-42	25		TW-30506-21	250	
1/8" x 3/32"	PVDF	AZ	13/16"	1/2"	1/16"	TW-30704-06	10				
1/8" x 3/32"	316 SS	BC	3/4"	7/16"	1/16"	TW-31208-66	1				
1/8" x 1/8"	HDPE	AU	1 1/8"	5/16"	1/16"	TW-30621-26	10		TW-30625-26	100	
1/8" x 1/8"	Nylon	AV	1 1/8"	5/16"	1/16"	TW-30621-27	10		TW-30625-27	100	
1/8" x 1/8"	PP	AX	1 1/8"	5/16"	1/16"	TW-40621-28	10		TW-40625-28	100	
1/8" x 1/8"	Clear PP	AY	1 1/8"	1 1/8"	5/16"	TW-06365-43	25		TW-30506-22	250	
1/8" x 1/8"	PVDF	AZ	1 1/8"	5/16"	1/16"	TW-30704-07	10				
1/8" x 1/8"	316 SS	BC	29/32"	1/2"	3/32"	TW-30621-30	1				
1/8" x 5/32"	HDPE	AU	1 3/16"	5/16"	3/32"	TW-31517-21	10				
1/8" x 5/32"	Nylon	AV	1 3/16"	5/16"	3/32"	TW-30621-24	10		TW-30625-24	100	
1/8" x 5/32"	PP	AX	1 3/16"	5/16"	3/32"	TW-40621-22	10		TW-40625-22	100	
1/8" x 5/32"	PVDF	AZ	1 3/16"	5/16"	3/32"	TW-30704-08	10				
1/8" x 5/32"	PFA	BA	1 7/16"	1/2"	1/16"	TW-06383-90	1				
1/8" x 3/16"	HDPE	AU	1 1/2"	7/16"	1/8"	TW-31702-04	10		TW-31701-82	100	
1/8" x 3/16"	Nylon	AV	1 1/2"	7/16"	1/8"	TW-31702-02	10				
1/8" x 3/16"	Black PP	AW	1 7/32"	7/16"	3/32"	TW-06444-16	10		TW-31204-20	100	
1/8" x 3/16"	316 SS	BC	3/32"	7/16"	1/8"	TW-31208-68	1				
1/8" x 1/4"	HDPE	AU	1 15/32"	7/32"	1/8"	TW-30621-31	10		TW-30625-31	100	
1/8" x 1/4"	Nylon	AV	1 15/32"	5/16"	1/8"	TW-30621-32	10		TW-30625-32	100	
1/8" x 1/4"	PP	AX	1 15/32"	5/16"	1/8"	TW-40610-36	10		TW-40640-36	100	
1/8" x 1/4"	PVDF	AZ	1 15/32"	5/16"	1/8"	TW-30704-09	10				
1/8" x 1/4"	PFA	BA	1 9/16"	5/8"	1/8"	TW-06383-91	1				
1/8" x 1/4"	Brass	BB	1 9/16"	7/16"	1/4"	TW-30904-01	5		TW-30905-01	50	
1/8" x 1/4"	316 SS	BC	1 9/16"	7/16"	1/4"	TW-30621-33	1				

MORE info!

Single barb fittings seal better than multi-barb fittings because they allow the tubing to relax around the barb.



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Fittings

Barbed, NPT Male Threaded Adapters

Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low-pressure applications (generally less than 30 psi). Order tubing on pages 1823–1859.

For material descriptions, refer to page 510.

Tubing ID	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ pk	Price/ pk
NPT male threaded adapters, NPT(M) x tubing ID—continued											
1/8" x 3/16"	HDPE	AU	1 1/2"	7/16"	3/32"	TW-30401-72	10		TW-30401-73	100	
1/8" x 5/16"	Nylon	AV	1 3/16"	5/16"	3/32"	TW-30622-31	10		TW-30622-58	100	
1/8" x 5/16"	PP	AX	1 3/16"	5/16"	3/32"	TW-41517-27	10		—	—	—
1/8" x 5/16"	PVDF	AZ	1 3/16"	5/16"	3/32"	TW-31517-26	10		—	—	—
1/8" x 3/8"	HDPE	AU	1 3/16"	5/16"	1/4"	TW-30621-35	10		TW-30625-35	100	
1/8" x 3/8"	Nylon	AV	1 3/16"	5/16"	1/4"	TW-30621-36	10		TW-30625-36	100	
1/8" x 3/8"	PP	AX	1 3/16"	5/16"	1/4"	TW-40610-37	10		TW-40640-37	100	
1/8" x 3/8"	PVDF	AZ	1 3/16"	5/16"	1/4"	TW-30704-10	10		—	—	—
1/8" x 3/8"	Brass	BB	1 3/16"	7/16"	5/32"	TW-30904-00	5		TW-30905-00	50	
1/8" x 3/8"	316 SS	BC	1 3/16"	7/16"	3/32"	TW-31208-70	1		—	—	—
1/4" x 1/16"	316 SS	BC	3 1/32"	9/16"	1/16"	TW-31208-74	1		—	—	—
1/4" x 3/32"	316 SS	BC	3 1/32"	9/16"	1/16"	TW-31208-75	1		—	—	—
1/4" x 1/8"	HDPE	AU	1 11/32"	13/32"	1/16"	TW-30621-42	10		TW-30625-42	100	
1/4" x 1/8"	Nylon	AV	1 11/32"	13/32"	1/16"	TW-30621-44	10		TW-30625-44	100	
1/4" x 1/8"	PP	AX	1 11/32"	13/32"	1/16"	TW-40621-45	10		TW-40625-45	100	
1/4" x 1/8"	PVDF	AZ	1 11/32"	13/32"	1/16"	TW-30621-43	10		TW-30625-43	50	
1/4" x 1/8"	316 SS	BC	1 1/16"	9/16"	3/32"	TW-31208-76	1		—	—	—
1/4" x 5/32"	HDPE	AU	1 3/8"	13/32"	3/32"	TW-30621-38	10		TW-30625-38	100	
1/4" x 5/32"	Nylon	AV	1 3/8"	13/32"	3/32"	TW-30621-40	10		TW-30625-40	100	
1/4" x 5/32"	PP	AX	1 3/8"	13/32"	3/32"	TW-40621-41	10		TW-40625-41	100	
1/4" x 5/32"	PVDF	AZ	1 3/8"	13/32"	3/32"	TW-30621-39	10		TW-30625-39	50	
1/4" x 5/32"	316 SS	BC	1 1/16"	9/16"	3/32"	TW-31208-77	1		—	—	—
1/4" x 3/16"	HDPE	AU	1 5/8"	9/16"	1/8"	TW-31702-08	10		—	—	—
1/4" x 3/16"	Nylon	AV	1 5/8"	9/16"	1/8"	TW-31702-06	10		TW-31702-07	100	
1/4" x 3/16"	PP	AX	1 5/8"	9/16"	1/8"	TW-41517-47	10		—	—	—
1/4" x 3/16"	Black PP	AW	1 3/4"	9/16"	3/32"	TW-06444-18	10		TW-31204-22	100	
1/4" x 3/16"	PVDF	AZ	1 5/8"	9/16"	1/8"	TW-31517-46	10		—	—	—
1/4" x 3/16"	316 SS	BC	1 1/8"	9/16"	1/8"	TW-31208-78	1		—	—	—
1/4" x 1/4"	HDPE	AU	1 11/16"	3/32"	1/8"	TW-30621-46	10		TW-30625-46	100	
1/4" x 1/4"	Nylon	AV	1 11/16"	3/32"	1/8"	TW-30621-47	10		TW-30625-47	100	
1/4" x 1/4"	PP	AX	1 11/16"	3/32"	1/8"	TW-40610-38	10		TW-40640-38	100	
1/4" x 1/4"	PVDF	AZ	1 11/16"	3/32"	1/8"	TW-30704-11	10		—	—	—
1/4" x 1/4"	PFA	BA	1 3/16"	5/8"	1/8"	TW-06383-92	1		—	—	—
1/4" x 1/4"	Brass	BB	1 11/16"	9/16"	5/32"	TW-30904-10	5		TW-30905-10	50	
1/4" x 1/4"	316 SS	BC	1 1/4"	9/16"	3/16"	TW-31208-79	1		—	—	—
1/4" x 3/16"	HDPE	AU	1 23/32"	13/32"	3/16"	TW-30621-48	10		TW-30625-48	100	
1/4" x 3/16"	Nylon	AV	1 23/32"	13/32"	3/16"	TW-30621-50	10		TW-30625-50	100	
1/4" x 3/16"	PP	AX	1 23/32"	13/32"	3/16"	TW-40621-51	10		TW-40625-51	100	
1/4" x 3/16"	PVDF	AZ	1 23/32"	13/32"	3/16"	TW-30621-49	10		TW-30625-49	50	
1/4" x 3/8"	HDPE	AU	1 25/32"	13/32"	1/4"	TW-30621-52	10		TW-30625-52	100	
1/4" x 3/8"	Nylon	AV	1 25/32"	13/32"	1/4"	TW-30621-53	10		TW-30625-53	100	
1/4" x 3/8"	PP	AX	1 25/32"	13/32"	1/4"	TW-40610-39	10		TW-40640-39	100	
1/4" x 3/8"	PVDF	AZ	1 25/32"	13/32"	1/4"	TW-30704-12	10		—	—	—
1/4" x 3/8"	PFA	BA	1 3/16"	5/8"	1/4"	TW-06383-93	1		—	—	—
1/4" x 3/8"	Brass	BB	1 11/16"	9/16"	5/32"	TW-30904-11	5		TW-30905-11	50	
1/4" x 3/8"	316 SS	BC	1 3/32"	9/16"	3/32"	TW-31208-80	1		—	—	—
1/4" x 1/2"	HDPE	AU	1 7/8"	13/32"	11/32"	TW-30621-54	10		TW-30625-54	100	
1/4" x 1/2"	Nylon	AV	1 7/8"	13/32"	11/32"	TW-30621-55	10		TW-30625-55	100	
1/4" x 1/2"	PP	AX	1 7/8"	13/32"	11/32"	TW-40610-40	10		TW-40640-40	100	
1/4" x 1/2"	PVDF	AZ	1 7/8"	13/32"	11/32"	TW-30704-13	10		—	—	—
3/8" x 3/32"	316 SS	BC	2 3/32"	11/16"	1/16"	TW-31208-83	1		—	—	—
3/8" x 1/8"	316 SS	BC	1"	11/16"	3/32"	TW-31208-84	1		—	—	—
3/8" x 1/4"	HDPE	AU	1 11/16"	9/16"	1/8"	TW-30621-56	10		TW-30625-56	100	
3/8" x 1/4"	Nylon	AV	1 11/16"	9/16"	1/8"	TW-30621-57	10		TW-30625-57	100	
3/8" x 1/4"	Clear PP	AY	1 11/16"	9/16"	1/8"	TW-40610-41	10		TW-40640-41	100	
3/8" x 1/4"	PVDF	AZ	1 11/16"	9/16"	1/8"	TW-30704-14	10		—	—	—
3/8" x 1/4"	Brass	BB	1 11/16"	11/16"	5/32"	TW-30904-20	5		TW-30905-20	50	
3/8" x 1/4"	316 SS	BC	1 3/16"	11/16"	3/16"	TW-31208-85	1		—	—	—
3/8" x 3/16"	HDPE	AU	1 3/4"	9/16"	3/16"	TW-30621-58	10		TW-30625-58	100	
3/8" x 5/16"	Nylon	AV	1 3/4"	9/16"	3/16"	TW-30621-60	10		TW-30625-60	100	
3/8" x 5/16"	PP	AX	1 3/4"	9/16"	3/16"	TW-40621-61	10		TW-40625-61	100	
3/8" x 5/16"	PVDF	AZ	1 3/4"	9/16"	3/16"	TW-30621-59	10		TW-30625-59	50	

NPT male threaded adapters
(continued)



AW
Black PP



AX
PP



AY
Clear PP



AZ
PVDF



BA
PFA



BB
Brass



BC
316 SS

See next page for more...



Fittings

Barbed, NPT Male Threaded Adapters

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Barbed Fittings (continued)

Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low-pressure applications (generally less than 30 psi). Order tubing on pages 1823–1859.

For material descriptions, refer to page 510.

FREE certificate of compliance is available for noted fittings on these pages. **See page 509.**

NPT male threaded adapters (continued)



AW
Black PP



AX
PP



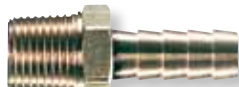
AY
Clear PP



AZ
PVDF



BA
PFA



BB
Brass



BC
316 SS

Tubing ID	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
NPT male threaded adapters, NPT(M) x tubing ID—continued											
3/8" x 3/8"	HDPE	AU	12 ⁵ / ₃₂ "	9/16"	1/4"	TW-30621-62	10		TW-30625-62	100	
3/8" x 3/8"	Nylon	AV	12 ⁵ / ₃₂ "	9/16"	1/4"	TW-30621-63	10		TW-30625-63	100	
3/8" x 3/8"	PP	AX	12 ⁵ / ₃₂ "	9/16"	1/4"	TW-40610-42	10		TW-40640-42	100	
3/8" x 3/8"	PVDF	AZ	12 ⁵ / ₃₂ "	9/16"	1/4"	TW-30704-15	10		—	—	—
3/8" x 3/8"	PFA	BA	13 ¹ / ₁₆ "	13/16"	1/4"	TW-06383-94	1		—	—	—
3/8" x 3/8"	Brass	BB	11 ¹ / ₁₆ "	11/16"	9/32"	TW-30904-21	5		TW-30905-21	50	
3/8" x 3/8"	316 SS	BC	17 ¹ / ₃₂ "	11/16"	9/32"	TW-31208-86	1		—	—	—
3/8" x 1/2"	HDPE	AU	17/8"	9/16"	11/32"	TW-30621-64	10		TW-30625-64	100	
3/8" x 1/2"	Nylon	AV	17/8"	9/16"	11/32"	TW-30621-65	10		TW-30625-65	100	
3/8" x 1/2"	PP	AX	17/8"	9/16"	11/32"	TW-40610-43	10		TW-40640-43	100	
3/8" x 1/2"	PVDF	AZ	17/8"	9/16"	11/32"	TW-30704-16	10		—	—	—
3/8" x 1/2"	Brass	BB	11 ¹ / ₁₆ "	11/16"	9/8"	TW-30904-22	5		TW-30905-22	50	
1/2" x 3/16"	HDPE	AU	13/8"	7/8"	1/8"	TW-31702-18	10		—	—	—
1/2" x 1/4"	HDPE	AU	17/8"	11/16"	1/8"	TW-30621-73	10		TW-30625-73	100	
1/2" x 1/4"	Nylon	AV	17/8"	11/16"	1/8"	TW-30621-74	10		TW-30625-74	100	
1/2" x 1/4"	PP	AX	17/8"	11/16"	1/8"	TW-40610-44	10		TW-40640-44	100	
1/2" x 1/4"	PVDF	AZ	17/8"	11/16"	1/8"	TW-30704-17	10		—	—	—
1/2" x 1/4"	316 SS	BC	12 ¹ / ₃₂ "	7/8"	9/16"	TW-31210-30	1		—	—	—
1/2" x 3/8"	HDPE	AU	13 ¹ / ₃₂ "	11/16"	1/4"	TW-30621-75	10		TW-30625-75	100	
1/2" x 3/8"	Nylon	AV	13 ¹ / ₃₂ "	11/16"	1/4"	TW-30621-76	10		TW-30625-76	100	
1/2" x 3/8"	PP	AX	13 ¹ / ₃₂ "	11/16"	1/4"	TW-40610-45	10		TW-40640-45	100	
1/2" x 3/8"	PVDF	AZ	13 ¹ / ₃₂ "	11/16"	1/4"	TW-30704-18	10		—	—	—
1/2" x 3/8"	Brass	BB	11 ³ / ₁₆ "	7/8"	9/32"	TW-30904-31	5		—	—	—
1/2" x 3/8"	316 SS	BC	12 ¹ / ₃₂ "	7/8"	5/16"	TW-31210-31	1		—	—	—
1/2" x 1/2"	HDPE	AU	21/16"	11/16"	11/32"	TW-30621-77	10		TW-30625-77	100	
1/2" x 1/2"	Nylon	AV	21/16"	11/16"	11/32"	TW-30621-78	10		TW-30625-78	100	
1/2" x 1/2"	PP	AX	21/16"	11/16"	11/32"	TW-40610-46	10		TW-40640-46	100	
1/2" x 1/2"	PVDF	AZ	21/16"	11/16"	11/32"	TW-30704-19	10		—	—	—
1/2" x 1/2"	Brass	BB	11 ³ / ₁₆ "	7/8"	3/8"	TW-30904-32	5		—	—	—
1/2" x 1/2"	316 SS	BC	29 ³ / ₃₂ "	7/8"	3/8"	TW-31210-32	1		—	—	—
1/2" x 5/8"	HDPE	AU	29 ³ / ₃₂ "	11/16"	15/32"	TW-30621-66	10		TW-30625-66	100	
1/2" x 5/8"	Nylon	AV	29 ³ / ₃₂ "	11/16"	15/32"	TW-30621-68	10		TW-30625-68	100	
1/2" x 5/8"	PP	AX	29 ³ / ₃₂ "	11/16"	15/32"	TW-40621-69	10		TW-40625-69	100	
1/2" x 5/8"	PVDF	AZ	29 ³ / ₃₂ "	11/16"	15/32"	TW-30621-67	5		TW-30625-67	25	
1/2" x 5/8"	Brass	BB	21/16"	7/8"	1/2"	TW-30904-52	5		—	—	—
1/2" x 5/8"	316 SS	BC	21 ³ / ₃₂ "	7/8"	1/2"	TW-31210-33	1		—	—	—
1/2" x 3/4"	HDPE	AU	29 ³ / ₃₂ "	11/16"	9/16"	TW-30621-70	10		TW-30625-70	100	
1/2" x 3/4"	Nylon	AV	29 ³ / ₃₂ "	11/16"	9/16"	TW-30621-72	10		TW-30625-72	100	
1/2" x 3/4"	PP	AX	29 ³ / ₃₂ "	11/16"	9/16"	TW-40610-47	10		TW-40640-47	100	
1/2" x 3/4"	PVDF	AZ	29 ³ / ₃₂ "	11/16"	9/16"	TW-30621-71	5		TW-30625-71	25	
1/2" x 3/4"	316 SS	BC	21 ⁸ / ₃₂ "	11/16"	17/32"	TW-31210-34	1		—	—	—
3/4" x 3/8"	HDPE	AU	13 ¹ / ₃₂ "	29 ³ / ₃₂ "	1/4"	TW-30621-18	10		—	—	—
3/4" x 3/8"	Nylon	AV	13 ¹ / ₃₂ "	29 ³ / ₃₂ "	1/4"	TW-30621-19	10		—	—	—
3/4" x 3/8"	PP	AX	13 ¹ / ₃₂ "	29 ³ / ₃₂ "	1/4"	TW-40610-49	5		TW-40640-49	50	
3/4" x 3/8"	PVDF	AZ	13 ¹ / ₃₂ "	29 ³ / ₃₂ "	1/4"	TW-30704-22	5		—	—	—
3/4" x 3/8"	Brass	BB	11 ³ / ₁₆ "	11/16"	9/32"	TW-30904-53	5		—	—	—
3/4" x 1/4"	HDPE	AU	17/8"	29 ³ / ₃₂ "	1/8"	TW-30621-16	10		TW-30625-16	100	
3/4" x 1/4"	Nylon	AV	17/8"	29 ³ / ₃₂ "	1/8"	TW-30621-17	10		TW-30625-17	100	
3/4" x 1/4"	PP	AX	17/8"	29 ³ / ₃₂ "	1/8"	TW-40610-48	5		TW-40640-48	50	
3/4" x 1/4"	PVDF	AZ	17/8"	29 ³ / ₃₂ "	1/8"	TW-30704-21	5		—	—	—
3/4" x 1/2"	HDPE	AU	29 ³ / ₃₂ "	29 ³ / ₃₂ "	11/32"	TW-30621-20	10		—	—	—
3/4" x 1/2"	Nylon	AV	29 ³ / ₃₂ "	29 ³ / ₃₂ "	11/32"	TW-30621-21	10		—	—	—
3/4" x 1/2"	PP	AX	29 ³ / ₃₂ "	29 ³ / ₃₂ "	11/32"	TW-40610-50	5		TW-40640-50	50	
3/4" x 1/2"	PVDF	AZ	29 ³ / ₃₂ "	29 ³ / ₃₂ "	11/32"	TW-30704-23	5		—	—	—
3/4" x 1/2"	Brass	BB	11 ³ / ₁₆ "	11/16"	9/8"	TW-30904-42	5		—	—	—
3/4" x 5/8"	HDPE	AU	23/16"	29 ³ / ₃₂ "	15/32"	TW-30621-08	10		—	—	—
3/4" x 5/8"	Nylon	AV	23/16"	29 ³ / ₃₂ "	15/32"	TW-30621-10	10		—	—	—
3/4" x 5/8"	PP	AX	23/16"	29 ³ / ₃₂ "	15/32"	TW-40621-11	10		TW-40625-11	100	
3/4" x 5/8"	PVDF	AZ	23/16"	29 ³ / ₃₂ "	15/32"	TW-30621-09	5		TW-30625-09	25	
3/4" x 5/8"	Brass	BB	21/8"	11/16"	1/2"	TW-30904-54	5		—	—	—

MORE info!

Single barb fittings seal better than multi-barb fittings because they allow the tubing to relax around the barb.

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Fittings

Barbed, NPT / UNF Male Threaded Adapters

Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low-pressure applications (generally less than 30 psi). Order tubing on pages 1823–1859.

For material descriptions, refer to page 510.

UNF male threaded adapters



Tubing ID	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
NPT male threaded adapters, NPT(M) x tubing ID—continued											
3/4" x 3/4"	HDPE	AU	2 5/32"	2 9/32"	1 1/32"	TW-30621-12	10	—	—	—	—
3/4" x 3/4"	Nylon	AV	2 5/32"	2 9/32"	1 1/32"	TW-30621-13	10	—	—	—	—
3/4" x 3/4"	PP	AX	2 5/32"	2 9/32"	1 1/32"	TW-40610-51	5	—	TW-40640-51	50	—
3/4" x 3/4"	PVDF	AZ	2 5/32"	2 9/32"	1 1/32"	TW-30704-24	5	—	—	—	—
3/4" x 3/4"	Brass	BB	2 1/8"	1 1/16"	1 9/32"	TW-30904-44	5	—	—	—	—
3/4" x 3/4"	316 SS	BC	2 1 3/32"	1 1/16"	5/16"	TW-31210-44	1	—	—	—	—
3/4" x 1"	HDPE	AU	2 1 5/32"	2 9/32"	2 9/32"	TW-30621-14	10	—	TW-30625-14	100	—
3/4" x 1"	Nylon	AV	2 1 5/32"	2 9/32"	2 9/32"	TW-30621-15	10	—	TW-30625-15	100	—
3/4" x 1"	PP	AX	2 1/2"	1 5/16"	2 5/32"	TW-40610-52	5	—	TW-40640-52	50	—
3/4" x 1"	PVDF	AZ	2 1 5/32"	1 5/16"	2 9/32"	TW-30704-25	5	—	—	—	—
3/4" x 1"	Brass	BB	2 3/8"	1 5/16"	3/4"	TW-30904-55	5	—	—	—	—
3/4" x 1"	316 SS	BC	2 1/2"	1 5/16"	5/16"	TW-31210-45	1	—	—	—	—
1" x 3/4"	Nylon	AV	2 5/32"	1 1 3/32"	9/16"	TW-31702-00	10	—	—	—	—
1" x 3/4"	316 SS	BC	2"	1 3/8"	1 5/16"	TW-31210-50	1	—	—	—	—
1" x 1"	HDPE	AU	2 5/32"	1 1 3/32"	2 9/32"	TW-31517-18	10	—	—	—	—
1" x 1"	Nylon	AV	2 5/32"	1 1 3/32"	2 9/32"	TW-30401-34	10	—	TW-31401-35	100	—
1" x 1"	PP	AX	2 1 1/16"	1 1 9/32"	2 5/32"	TW-40610-53	5	—	TW-40640-53	50	—
1" x 1"	PVDF	AZ	2 2 1/32"	1 1 9/32"	2 9/32"	TW-30704-26	5	—	—	—	—
1" x 1"	316 SS	BC	2"	1 1/8"	2 9/32"	TW-31210-51	1	—	—	—	—
1" x 1 1/4"	Nylon	AV	2 1/2"	1 1/8"	1 1/32"	TW-31408-12	5	—	TW-31418-12	50	—
1" x 1 1/4"	Black PP	AW	1 3/16"	7/16"	3/8"	TW-31407-12	5	—	TW-31417-12	50	—
1 1/4" x 1"	Nylon	AV	1 3/4"	1 1/8"	1 1/32"	TW-31408-13	5	—	TW-31418-13	50	—
1 1/4" x 1"	Black PP	AW	2 9/32"	7/16"	3/16"	TW-31407-13	5	—	TW-31417-13	50	—
1 1/4" x 1 1/4"	Nylon	AV	1 3/4"	1 1/8"	1/4"	TW-31408-14	5	—	TW-31418-14	50	—
1 1/4" x 1 1/4"	Black PP	AW	2 9/32"	7/16"	1 9/32"	TW-31407-14	5	—	TW-31417-14	50	—
1 1/4" x 1 1/4"	316 SS	BC	3 1/2"	1 1 1/16"	7/8"	TW-31210-60	1	—	—	—	—
1 1/4" x 1 1/2"	Black PP	AW	1 23/32"	1 7/32"	1 9/32"	TW-31407-15	5	—	TW-31417-15	50	—
1 1/2" x 1 1/4"	Nylon	AV	1 13/16"	1 1/8"	1 9/32"	TW-31408-17	5	—	TW-31418-17	50	—
1 1/2" x 1 1/4"	Black PP	AW	3 1/32"	7/16"	3/8"	TW-31407-17	5	—	TW-31417-17	50	—
1 1/2" x 1 1/2"	Nylon	AV	1 13/16"	1 1/8"	7/16"	TW-31408-16	5	—	TW-31418-16	50	—
1 1/2" x 1 1/2"	Black PP	AW	1 1/16"	3/8"	1 5/32"	TW-31407-16	5	—	TW-31417-16	50	—
1 1/2" x 1 1/2"	316 SS	BC	3 7/8"	2"	1 1/4"	TW-31210-61	1	—	—	—	—
1 1/2" x 2"	Nylon	AV	2 1/8"	1 1/8"	1 3/16"	TW-31408-18	5	—	TW-31418-18	50	—
1 1/2" x 2"	Black PP	AW	1 5/16"	3/4"	1 1/16"	TW-31407-18	5	—	TW-31417-18	50	—
2" x 1 1/2"	Nylon	AV	2 25/32"	1 1 3/32"	9/16"	TW-31408-19	5	—	TW-31418-19	50	—
2" x 1 1/2"	Black PP	AW	1 7/32"	1 7/32"	1 9/32"	TW-31407-19	5	—	TW-31417-19	50	—
2" x 2"	Nylon	AV	2 5/32"	1 1 3/32"	2 5/32"	TW-31408-20	5	—	TW-31418-20	50	—
2" x 2"	Black PP	AW	1 7/16"	3/4"	1 1/16"	TW-31407-20	5	—	TW-31417-20	50	—
2" x 2"	316 SS	BC	4 7/16"	2 7/16"	1 1/2"	TW-31210-70	1	—	—	—	—

BD
HDPE



BE
Nylon



BF
PP



BG
Clear PP

BH
PVDF



Cole-Parmer
PTFE Thread Tape

PTFE thread sealer tape prevents leaks and seepage at threads. PTFE tape withstands temperatures from -250 to 500°F (-157 to 260°C).

LZ-08270-33 PTFE thread tape (Plumber's). Roll measures 43 ft x 1/2"W

LZ-08270-34 PTFE thread tape (Plumber's). Roll measures 43 ft x 3/4"W

LZ-08782-45 PTFE thread sealer string. Roll of 20 ft x 3/32"W

See next page for more...

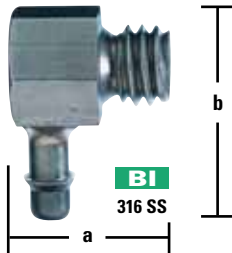
Find MORE!
For flexible tubing, see pages 1823–1859.

Barbed Fittings (continued)

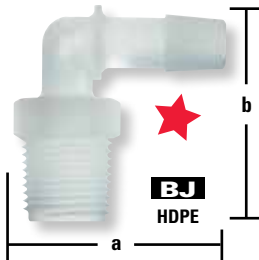
Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low-pressure applications (generally less than 30 psi). Order tubing on pages 1823–1859.

For material descriptions, refer to page 510.

UNF male threaded adapters (elbows)



NPT male threaded adapter elbows



Tubing ID	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
UNF male threaded adapter elbows, UNF(M) x tubing ID											
10-32 x 1/16"	316 SS	BI	9/16"	1 1/16"	1/16"	TW-31209-45	1		—	—	—
10-32 x 1/8"	316 SS	BI	7/16"	9/16"	3/32"	TW-31209-46	1		—	—	—
NPT male threaded adapter elbows, NPT(M) x tubing ID											
1/16" x 1/16"	316 SS	BN	3/8"	1 1/32"	1/16"	TW-31208-87	1		—	—	—
1/16" x 3/32"	316 SS	BN	3/8"	1 1/32"	1/16"	TW-31208-88	1		—	—	—
1/16" x 1/8"	316 SS	BN	1 1/32"	1 1/32"	3/32"	TW-31208-89	1		—	—	—
1/16" x 3/16"	316 SS	BN	1 1/32"	1 1/32"	1/8"	TW-31208-90	1		—	—	—
1/16" x 1/4"	316 SS	BN	1 1/32"	1 1/32"	3/16"	TW-31208-91	1		—	—	—
1/8" x 1/16"	316 SS	BN	7/16"	9/16"	1/16"	TW-31208-92	1		—	—	—
1/8" x 3/32"	316 SS	BN	7/16"	9/16"	1/16"	TW-31208-93	1		—	—	—
1/8" x 1/8"	HDPE	BJ	3/4"	1 3/16"	3/32"	TW-31518-77	10		—	—	—
1/8" x 1/8"	PP	BL	3/4"	1 3/16"	3/32"	TW-41518-78	10		—	—	—
1/8" x 1/8"	PVDF	BM	3/4"	1 3/16"	3/32"	TW-30704-30	10		—	—	—
1/8" x 1/8"	316 SS	BN	1 1/32"	9/16"	3/32"	TW-31208-94	1		—	—	—
1/8" x 3/16"	HDPE	BJ	1 1/32"	1 3/16"	5/32"	TW-31702-30	10		—	—	—
1/8" x 3/16"	Nylon	BK	1 1/32"	1 3/16"	5/32"	TW-31702-28	10		—	—	—
1/8" x 3/16"	PVDF	BM	3 1/32"	1 5/16"	1/8"	TW-30704-31	10		—	—	—
1/8" x 3/16"	316 SS	BN	1 9/32"	5/8"	1/8"	TW-31208-95	1		—	—	—
1/8" x 1/4"	HDPE	BJ	1 1/4"	1 7/32"	5/32"	TW-30401-04	10		TW-30401-06	100	—
1/8" x 1/4"	Nylon	BK	1 1/4"	1 7/32"	5/32"	TW-30401-05	10		TW-30401-07	100	—
1/8" x 1/4"	PP	BL	1 1/4"	1 7/32"	1/8"	TW-40610-54	10		TW-40640-54	100	—
1/8" x 1/4"	PVDF	BM	1 1/32"	1 5/32"	1/8"	TW-30704-33	10		—	—	—
1/8" x 1/4"	316 SS	BN	2 3/32"	1 1/16"	3/16"	TW-31208-96	1		—	—	—
1/8" x 5/16"	HDPE	BJ	1 5/16"	1 7/32"	3/16"	TW-30622-82	10		TW-30626-82	100	—
1/8" x 5/16"	Nylon	BK	1 5/16"	1 7/32"	3/16"	TW-30622-85	10		TW-30626-85	100	—
1/8" x 5/16"	PP	BL	1 5/16"	1 7/32"	3/16"	TW-40622-86	10		TW-40626-86	100	—
1/8" x 5/16"	PVDF	BM	1 5/16"	1 7/32"	3/16"	TW-30622-84	10		TW-30626-84	50	—
1/8" x 3/8"	HDPE	BJ	1 3/32"	1 9/32"	7/32"	TW-30401-08	10		TW-30401-10	100	—
1/8" x 3/8"	Nylon	BK	1 3/8"	1 9/32"	7/32"	TW-30622-87	10		TW-30626-87	100	—
1/8" x 3/8"	PP	BL	1 3/8"	1 9/32"	7/32"	TW-40610-55	10		TW-40640-55	100	—
1/8" x 3/8"	PVDF	BM	1 3/8"	1 9/32"	7/32"	TW-30704-34	10		—	—	—
1/8" x 3/8"	316 SS	BN	2 1/32"	1 5/64"	3/32"	TW-31208-97	1		—	—	—
1/4" x 1/16"	316 SS	BN	2 5/32"	3/4"	1/16"	TW-31209-00	1		—	—	—
1/4" x 3/32"	316 SS	BN	2 5/32"	3/4"	1/16"	TW-31209-01	1		—	—	—
1/4" x 1/8"	HDPE	BJ	1 1/4"	7/8"	1/16"	TW-30622-88	10		TW-30626-88	100	—
1/4" x 1/8"	Nylon	BK	1 1/4"	7/8"	1/16"	TW-30622-90	10		TW-30626-90	100	—
1/4" x 1/8"	PP	BL	1 1/4"	7/8"	1/16"	TW-40622-91	10		TW-40626-91	100	—
1/4" x 1/8"	PVDF	BM	1 1/4"	7/8"	1/16"	TW-30622-89	10		TW-30626-89	50	—
1/4" x 1/8"	316 SS	BN	7/8"	3/4"	3/32"	TW-31209-02	1		—	—	—
1/4" x 5/32"	316 SS	BN	7/8"	3/4"	3/32"	TW-31209-03	1		—	—	—
1/4" x 3/16"	HDPE	BJ	1 9/32"	1"	3/32"	TW-30622-92	10		TW-30626-92	100	—
1/4" x 3/16"	Nylon	BK	1 9/32"	1"	3/32"	TW-30622-94	10		TW-30626-94	100	—
1/4" x 3/16"	PP	BL	1 9/32"	1"	3/32"	TW-40622-95	10		TW-40626-95	100	—
1/4" x 3/16"	PVDF	BM	1 9/32"	1"	3/32"	TW-30622-93	10		TW-30626-93	50	—
1/4" x 3/16"	316 SS	BN	1 5/16"	3/4"	1/8"	TW-31209-04	1		—	—	—
1/4" x 1/4"	HDPE	BJ	1 5/16"	1 13/32"	1/8"	TW-30622-96	10		TW-30626-96	100	—
1/4" x 1/4"	Nylon	BK	1 5/16"	1 13/32"	1/8"	TW-30622-97	10		TW-30626-97	100	—
1/4" x 1/4"	PP	BL	1 5/16"	1 13/32"	1/8"	TW-40610-56	10		TW-40640-56	100	—
1/4" x 1/4"	PVDF	BM	1 5/16"	1 13/32"	1/8"	TW-30704-35	10		—	—	—
1/4" x 1/4"	316 SS	BN	1 1/16"	7/8"	3/32"	TW-31209-05	1		—	—	—
1/4" x 3/8"	HDPE	BJ	1 1/2"	1 19/32"	1/4"	TW-30622-98	10		TW-30626-98	100	—
1/4" x 3/8"	Nylon	BK	1 1/2"	1 19/32"	1/4"	TW-30622-99	10		TW-30626-99	100	—
1/4" x 3/8"	PP	BL	1 1/2"	1 19/32"	1/4"	TW-40610-57	10		TW-40640-57	100	—
1/4" x 3/8"	PVDF	BM	1 1/2"	1 19/32"	1/4"	TW-30704-36	10		—	—	—

FREE certificate of compliance is available for noted fittings on these pages. **See page 509.**



Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low-pressure applications (generally less than 30 psi). Order tubing on pages 1823–1859.

For material descriptions, refer to page 510.

Tubing ID	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
NPT male threaded adapter elbows, NPT(M) x tubing ID—continued											
1/4" x 3/8"	316 SS	BN	1 1/8"	1 1/4"	9/32"	TW-31209-06	1		—	—	—
1/4" x 1/2"	HDPE	BJ	1 21/32"	1 23/32"	1 1/32"	TW-30623-00	10		TW-30627-00	100	
1/4" x 1/2"	Nylon	BK	1 21/32"	1 23/32"	1 1/32"	TW-30623-01	10		TW-30627-01	100	
1/4" x 1/2"	PP	BL	1 21/32"	1 23/32"	1 1/32"	TW-40610-58	10		TW-40640-58	100	
1/4" x 1/2"	PVDF	BM	1 21/32"	1 23/32"	1 1/32"	TW-30704-37	10		—	—	—
3/8" x 1/8"	316 SS	BN	1"	25/32"	3/32"	TW-31209-07	1		—	—	—
3/8" x 1/4"	HDPE	BJ	1 3/8"	1 3/8"	1/8"	TW-30623-02	10		TW-30627-02	100	
3/8" x 1/4"	Nylon	BK	1 3/8"	1 3/8"	1/8"	TW-30623-03	10		TW-30627-03	100	
3/8" x 1/4"	PP	BL	1 3/8"	1 3/8"	1/8"	TW-40610-59	10		TW-40640-59	100	
3/8" x 1/4"	PVDF	BM	1 3/8"	1 3/8"	1/8"	TW-30704-38	10		—	—	—
3/8" x 3/8"	HDPE	BJ	1 9/16"	1 19/32"	1/4"	TW-30623-04	10		TW-30627-04	100	
3/8" x 3/8"	Nylon	BK	1 9/16"	1 19/32"	1/4"	TW-30623-05	10		—	—	—
3/8" x 3/8"	PP	BL	1 9/16"	1 19/32"	1/4"	TW-40610-60	10		TW-40640-60	100	
3/8" x 3/8"	PVDF	BM	1 9/16"	1 19/32"	1/4"	TW-30704-39	10		—	—	—
3/8" x 1/2"	HDPE	BJ	1 1 1/16"	1 1 1/16"	1 1/32"	TW-30623-06	10		TW-30627-06	100	
3/8" x 1/2"	Nylon	BK	1 1 1/16"	1 1 1/16"	1 1/32"	TW-30623-07	10		TW-30627-07	100	
3/8" x 1/2"	PP	BL	1 1 1/16"	1 1 1/16"	1 1/32"	TW-40610-61	10		TW-40640-61	100	
3/8" x 1/2"	PVDF	BM	1 1 1/16"	1 1 1/16"	1 1/32"	TW-30704-40	10		—	—	—
1/2" x 1/4"	HDPE	BJ	1 1/2"	1 19/32"	1/8"	TW-30623-10	10		TW-30627-10	100	
1/2" x 1/4"	Nylon	BK	1 1/2"	1 19/32"	1/8"	TW-30623-11	10		TW-30627-11	100	
1/2" x 1/4"	PP	BL	1 1/2"	1 19/32"	1/8"	TW-40610-62	10		TW-40640-62	100	
1/2" x 1/4"	PVDF	BM	1 1/2"	1 19/32"	1/8"	TW-30704-41	10		—	—	—
1/2" x 3/8"	HDPE	BJ	1 21/32"	1 25/32"	1/4"	TW-30623-12	10		TW-30627-12	100	
1/2" x 3/8"	Nylon	BK	1 21/32"	1 25/32"	1/4"	TW-30623-13	10		TW-30627-13	100	
1/2" x 3/8"	PP	BL	1 21/32"	1 25/32"	1/4"	TW-40610-63	10		TW-40640-63	100	
1/2" x 3/8"	PVDF	BM	1 21/32"	1 25/32"	1/4"	TW-30704-42	10		—	—	—
1/2" x 1/2"	HDPE	BJ	1 27/32"	1 29/32"	1 1/32"	TW-30623-14	10		TW-30627-14	100	
1/2" x 1/2"	Nylon	BK	1 27/32"	1 29/32"	1 1/32"	TW-30623-15	10		TW-30627-15	100	
1/2" x 1/2"	PP	BL	1 27/32"	1 29/32"	1 1/32"	TW-40610-64	10		TW-40640-64	100	
1/2" x 1/2"	PVDF	BM	1 27/32"	1 29/32"	1 1/32"	TW-30704-43	10		—	—	—
1/2" x 5/8"	HDPE	BJ	1 5/8"	1 31/32"	1 15/16"	TW-30623-08	10		TW-30627-08	100	
1/2" x 5/8"	Nylon	BK	1 5/8"	1 31/32"	1 15/16"	TW-30623-09	10		TW-30627-09	100	
1/2" x 3/4"	HDPE	BJ	1 15/32"	1 9/8"	1 9/32"	TW-30401-28	10		—	—	—
1/2" x 3/4"	Nylon	BK	1 15/32"	1 9/8"	1 9/32"	TW-30401-00	10		TW-30401-01	100	
1/2" x 3/4"	PP	BL	2 3/16"	2 7/32"	9/16"	TW-40610-65	10		TW-40640-65	100	
1/2" x 3/4"	PVDF	BM	2 1/8"	2 3/16"	9/16"	TW-30704-44	10		—	—	—
3/4" x 1/4"	PP	BL	1 21/32"	1 9/8"	1/8"	TW-40610-66	5		TW-40640-66	50	
3/4" x 1/4"	PVDF	BM	1 19/32"	1 19/32"	1/8"	TW-30704-45	5		—	—	—
3/4" x 3/8"	PP	BL	1 13/16"	1 29/32"	1/4"	TW-40610-67	5		TW-40640-67	50	
3/4" x 3/8"	PVDF	BM	1 25/32"	1 3/4"	1/4"	TW-30704-46	5		—	—	—
3/4" x 1/2"	Nylon	BK	1 7/8"	2 1/8"	3/8"	TW-30401-17	10		TW-30401-19	100	
3/4" x 1/2"	PP	BL	2"	1 29/32"	1 1/32"	TW-40610-68	5		—	—	—
3/4" x 1/2"	PVDF	BM	1 15/16"	1 7/8"	1 1/32"	TW-30704-47	5		—	—	—
3/4" x 5/8"	HDPE	BJ	1 7/8"	2 3/32"	1 9/32"	TW-30401-25	10		TW-30401-27	100	
3/4" x 5/8"	Nylon	BK	1 7/8"	2 3/32"	1 9/32"	TW-30401-24	10		TW-30401-26	100	
3/4" x 3/4"	HDPE	BJ	1 7/8"	2 3/8"	9/16"	TW-30401-31	10		TW-30401-23	100	
3/4" x 3/4"	Nylon	BK	1 7/8"	2 3/8"	9/16"	TW-30401-21	10		TW-30401-22	100	
3/4" x 3/4"	PP	BL	2 5/16"	2 7/32"	9/16"	TW-40610-69	5		—	—	—
3/4" x 3/4"	PVDF	BM	2 9/32"	2 3/16"	9/16"	TW-30704-48	5		—	—	—
3/4" x 1"	Nylon	BK	2 1/16"	2 1/2"	1 3/16"	TW-30401-14	10		TW-30401-15	100	
3/4" x 1"	PP	BL	2 21/32"	2 1/2"	2 9/32"	TW-40610-70	5		—	—	—
3/4" x 1"	PVDF	BM	2 19/32"	2 1/16"	2 5/32"	TW-30704-49	5		—	—	—
1" x 1"	PP	BL	2 1/16"	2 1 1/16"	2 9/32"	TW-40610-71	5		TW-40640-71	50	
1" x 1"	PVDF	BM	2 3/4"	2 5/8"	2 5/32"	TW-30704-50	5		—	—	—
1 1/4" x 1 1/4"	Nylon	BK	3 7/16"	1 5/32"	1 1/2"	TW-31408-22	5		TW-31418-22	50	

NPT male threaded adapter elbows
(continued)



Cole-Parmer PTFE Thread Tape

PTFE thread sealer tape prevents leaks and seepage at threads. PTFE tape withstands temperatures from -250 to 500°F (-157 to 260°C).

LZ-08270-33 PTFE thread tape (Plumber's). Roll measures 43 ft x 1/2"W

LZ-08270-34 PTFE thread tape (Plumber's). Roll measures 43 ft x 3/4"W

LZ-08782-45 PTFE thread sealer string. Roll of 20 ft x 3/32"W

See next page for more...

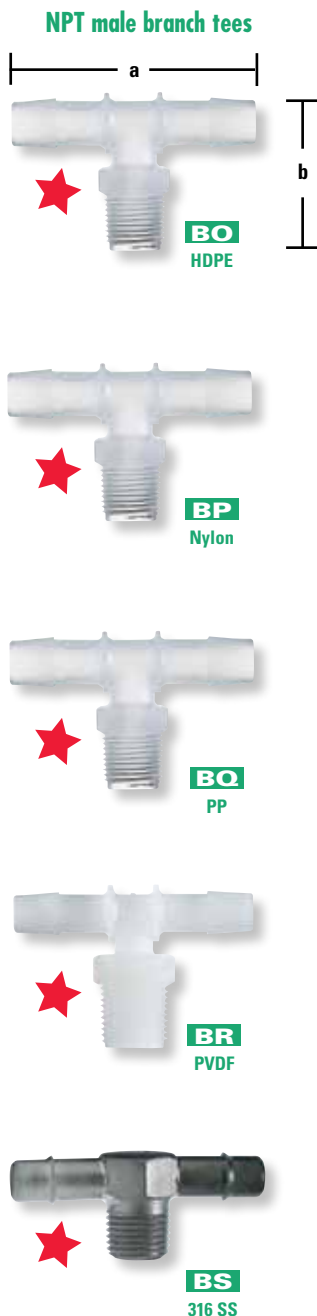
Barbed Fittings (continued)

Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low-pressure applications (generally less than 30 psi). Order tubing on pages 1823–1859.

For material descriptions, refer to page 510.

FREE certificate of compliance is available for noted fittings on these pages.

See page 509.



Tubing ID	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
NPT male branch tees, NPT(M) branch x tubing ID											
1/16" x 1/8"	316 SS	BS	15/16"	17/32"	3/32"	TW-31209-13	1	—	—	—	—
1/16" x 3/16"	316 SS	BS	11/16"	17/32"	1/8"	TW-31209-14	1	—	—	—	—
1/8" x 1/16"	316 SS	BS	7/8"	9/16"	1/16"	TW-31209-15	1	—	—	—	—
1/8" x 3/32"	316 SS	BS	7/8"	9/16"	1/16"	TW-31209-16	1	—	—	—	—
1/8" x 1/8"	316 SS	BS	11/16"	9/16"	3/32"	TW-31209-17	1	—	—	—	—
1/8" x 3/16"	316 SS	BS	13/16"	5/8"	1/8"	TW-31209-18	1	—	—	—	—
1/8" x 1/4"	HDPE	BO	23/16"	13/16"	5/32"	TW-31701-86	10	—	TW-30401-67	100	—
1/8" x 1/4"	Nylon	BP	23/16"	13/16"	5/32"	TW-30401-64	10	—	TW-30401-66	100	—
1/8" x 1/4"	PP	BQ	131/32"	17/32"	1/8"	TW-40610-72	10	—	—	—	—
1/8" x 1/4"	PVDF	BR	131/32"	17/32"	1/8"	TW-30704-61	10	—	—	—	—
1/8" x 1/4"	316 SS	BS	17/16"	11/16"	3/16"	TW-31209-19	1	—	—	—	—
1/8" x 3/8"	PP	BQ	23/16"	13/8"	1/4"	TW-40610-73	10	—	TW-40640-73	100	—
1/8" x 3/8"	PVDF	BR	29/32"	13/8"	1/4"	TW-30704-62	10	—	TW-30628-01	50	—
1/8" x 3/8"	316 SS	BS	111/16"	15/64"	9/32"	TW-31209-20	1	—	—	—	—
1/4" x 1/16"	316 SS	BS	1"	3/4"	1/16"	TW-31209-21	1	—	—	—	—
1/4" x 1/8"	316 SS	BS	13/16"	3/4"	3/32"	TW-31209-23	1	—	—	—	—
1/4" x 3/16"	316 SS	BS	13/16"	3/4"	1/8"	TW-31209-24	1	—	—	—	—
1/4" x 5/32"	HDPE	BO	11/4"	11/32"	3/32"	TW-30623-96	10	—	TW-30627-96	100	—
1/8" x 5/32"	Nylon	BP	11/4"	11/32"	3/32"	TW-30623-98	10	—	TW-30627-98	100	—
1/8" x 5/32"	PP	BQ	11/4"	11/32"	3/32"	TW-40623-99	10	—	TW-40627-99	100	—
1/8" x 5/32"	PVDF	BR	11/4"	11/32"	3/32"	TW-30623-97	10	—	TW-30627-97	50	—
1/8" x 3/8"	HDPE	BO	29/32"	19/32"	1/4"	TW-30624-00	10	—	TW-30628-00	100	—
1/8" x 3/8"	Nylon	BP	29/32"	19/32"	1/4"	TW-30624-02	10	—	TW-30628-02	100	—
1/4" x 1/4"	HDPE	BO	131/32"	113/32"	1/8"	TW-30624-04	10	—	TW-30628-04	100	—
1/4" x 1/4"	Nylon	BP	131/32"	113/32"	1/8"	TW-30624-05	10	—	TW-30628-05	100	—
1/4" x 1/4"	PP	BQ	131/32"	113/32"	1/8"	TW-40610-74	10	—	—	—	—
1/4" x 1/4"	PVDF	BR	131/32"	113/32"	1/8"	TW-30704-63	10	—	—	—	—
1/4" x 3/8"	HDPE	BO	29/32"	119/32"	1/4"	TW-30624-06	10	—	TW-30628-06	100	—
1/4" x 3/8"	Nylon	BP	29/32"	119/32"	1/4"	TW-30624-07	10	—	TW-30628-07	100	—
1/4" x 3/8"	PP	BQ	29/32"	119/32"	1/4"	TW-40624-09	10	—	TW-40628-09	100	—
1/4" x 3/8"	PVDF	BR	29/32"	119/32"	1/4"	TW-30704-64	10	—	—	—	—
1/4" x 1/2"	HDPE	BO	221/32"	129/32"	11/32"	TW-30624-10	10	—	TW-30628-10	100	—
1/4" x 1/2"	Nylon	BP	221/32"	129/32"	11/32"	TW-30624-11	10	—	TW-30628-11	100	—
1/4" x 1/2"	PP	BQ	221/32"	129/32"	11/32"	TW-40610-76	10	—	—	—	—
1/4" x 1/2"	PVDF	BR	25/8"	111/16"	11/32"	TW-30704-65	10	—	—	—	—
3/8" x 3/16"	316 SS	BS	17/16"	25/32"	1/8"	TW-31209-28	1	—	—	—	—
3/8" x 1/4"	HDPE	BO	131/32"	17/16"	1/8"	TW-30624-12	10	—	TW-30628-12	100	—
3/8" x 1/4"	Nylon	BP	131/32"	17/16"	1/8"	TW-30624-13	10	—	TW-30628-13	100	—
3/8" x 1/4"	PP	BQ	131/32"	17/16"	1/8"	TW-40610-77	10	—	—	—	—
3/8" x 1/4"	PVDF	BR	131/32"	119/32"	1/8"	TW-30704-66	10	—	—	—	—
3/8" x 1/4"	316 SS	BS	111/16"	15/16"	3/16"	TW-31209-29	1	—	—	—	—
3/8" x 3/8"	HDPE	BO	29/32"	115/32"	1/4"	TW-30624-14	10	—	TW-30628-14	100	—
3/8" x 3/8"	Nylon	BP	29/32"	115/32"	1/4"	TW-30624-15	10	—	TW-30628-15	100	—
3/8" x 3/8"	PP	BQ	25/16"	119/32"	1/4"	TW-40610-78	10	—	—	—	—
3/8" x 3/8"	PVDF	BR	29/32"	19/16"	1/4"	TW-30704-67	10	—	—	—	—
3/8" x 3/8"	316 SS	BS	13/4"	15/16"	19/32"	TW-31209-30	1	—	—	—	—
3/8" x 1/2"	HDPE	BO	221/32"	129/32"	11/32"	TW-30624-16	10	—	TW-30628-16	100	—
3/8" x 1/2"	Nylon	BP	221/32"	129/32"	11/32"	TW-30624-17	10	—	TW-30628-17	100	—
3/8" x 1/2"	PP	BQ	221/32"	129/32"	11/32"	TW-40610-79	10	—	—	—	—
3/8" x 1/2"	PVDF	BR	25/8"	111/16"	11/32"	TW-30704-68	10	—	—	—	—
1/2" x 1/4"	HDPE	BO	115/16"	19/16"	1/8"	TW-30624-20	10	—	TW-30628-20	100	—
1/2" x 1/4"	Nylon	BP	115/16"	19/16"	1/8"	TW-30624-21	10	—	TW-30628-21	100	—
1/2" x 1/4"	PP	BQ	131/32"	119/32"	1/8"	TW-40610-80	10	—	TW-40640-80	100	—
1/2" x 1/4"	PVDF	BR	115/16"	19/16"	1/8"	TW-30704-69	10	—	—	—	—
1/2" x 3/8"	HDPE	BO	25/16"	129/32"	1/4"	TW-30624-22	10	—	TW-30628-22	100	—
1/2" x 3/8"	Nylon	BP	25/16"	129/32"	1/4"	TW-30624-23	10	—	TW-30628-23	100	—
1/2" x 3/8"	PP	BQ	29/16"	129/32"	1/4"	TW-40610-81	10	—	—	—	—
1/2" x 3/8"	PVDF	BR	29/32"	13/4"	1/4"	TW-30704-70	10	—	—	—	—
1/2" x 1/2"	HDPE	BO	221/32"	129/32"	11/32"	TW-30624-24	10	—	TW-30628-24	100	—
1/2" x 1/2"	Nylon	BP	221/32"	129/32"	11/32"	TW-30624-25	10	—	TW-30628-25	100	—

Find MORE!

For flexible tubing, see pages 1823–1859.



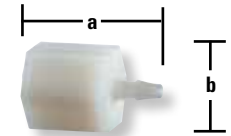
Barbed, NPT Male Branch Tees / NPT Female Threaded Adapters / Plugs

Barbed fittings are designed for quick and easy assembly without tools. Combine these simple, economical fittings with our flexible tubing for use in your low-pressure applications (generally less than 30 psi). Order tubing on pages 1823–1859.

For material descriptions, refer to page 510.

Tubing ID	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ pk	Price/ pk
NPT male branch tees, NPT(M) branch x tubing ID—continued											
1/2" x 1/2"	PP	BQ	221/32"	129/32"	11/32"	TW-40610-82	10		TW-40640-82	100	
1/2" x 1/2"	PVDF	BR	25/8"	17/8"	1/2"	TW-30704-71	10		—	—	—
1/2" x 3/4"	HDPE	BO	35/16"	21/16"	9/16"	TW-30624-18	10		TW-30627-18	100	
1/2" x 3/4"	Nylon	BP	35/16"	21/16"	9/16"	TW-30624-19	10		TW-30628-19	100	
1/2" x 3/4"	PP	BQ	311/32"	27/32"	9/16"	TW-40610-83	10		—	—	—
1/2" x 3/4"	PVDF	BR	35/16"	23/16"	9/16"	TW-30704-72	10		—	—	—
3/4" x 1/4"	HDPE	BO	115/16"	19/16"	1/8"	TW-30623-86	10		TW-30627-86	100	
3/4" x 1/4"	Nylon	BP	115/16"	19/16"	1/8"	TW-30623-87	10		TW-30627-87	100	
3/4" x 1/4"	PP	BQ	131/32"	19/8"	1/8"	TW-40610-84	5		—	—	—
3/4" x 1/4"	PVDF	BR	131/32"	19/16"	1/8"	TW-30704-73	5		—	—	—
3/4" x 3/8"	HDPE	BO	29/32"	111/16"	1/4"	TW-30623-88	10		TW-30627-88	100	
3/4" x 3/8"	Nylon	BP	29/32"	111/16"	1/4"	TW-30623-90	10		TW-30627-90	100	
3/4" x 3/8"	PP	BQ	29/16"	125/32"	1/4"	TW-40610-85	5		—	—	—
3/4" x 3/8"	PVDF	BR	29/32"	111/16"	1/4"	TW-30623-89	5		TW-30627-89	25	
3/4" x 1/2"	HDPE	BO	29/8"	113/16"	11/32"	TW-30623-91	10		TW-30627-91	100	
3/4" x 1/2"	Nylon	BP	29/8"	113/16"	11/32"	TW-30623-93	10		TW-30627-93	100	
3/4" x 1/2"	PP	BQ	221/32"	129/32"	11/32"	TW-40610-86	5		—	—	—
3/4" x 1/2"	PVDF	BR	29/8"	17/8"	11/32"	TW-30704-75	5		—	—	—
3/4" x 3/4"	HDPE	BO	3"	23/8"	9/16"	TW-30401-71	10		TW-30401-70	100	
3/4" x 3/4"	PP	BQ	311/32"	27/32"	9/16"	TW-40610-87	5		—	—	—
3/4" x 3/4"	HDPE	BO	35/16"	23/32"	9/16"	TW-30623-81	5		TW-30627-81	50	
3/4" x 3/4"	Nylon	BP	35/16"	23/32"	9/16"	TW-30623-82	5		TW-30627-82	50	
3/4" x 3/4"	PP	BQ	35/16"	23/32"	9/16"	TW-40623-83	10		TW-40627-83	100	
3/4" x 3/4"	PVDF	BR	35/16"	23/16"	9/16"	TW-30704-76	5		—	—	—
3/4" x 1"	HDPE	BO	331/32"	219/32"	25/32"	TW-30623-84	5		TW-30627-84	50	
3/4" x 1"	Nylon	BP	331/32"	219/32"	25/32"	TW-30623-85	5		TW-30627-85	50	
3/4" x 1"	PP	BQ	331/32"	21/2"	25/32"	TW-40610-88	5		—	—	—
3/4" x 1"	PVDF	BR	331/32"	219/32"	25/32"	TW-30704-77	5		—	—	—
1" x 1"	HDPE	BO	4"	217/32"	25/32"	TW-30623-94	5		TW-30627-94	50	
1" x 1"	Nylon	BP	4"	217/32"	25/32"	TW-30623-95	5		TW-30627-95	50	
1" x 1"	PP	BQ	4"	211/16"	25/32"	TW-40610-89	5		—	—	—
1" x 1"	PVDF	BR	319/16"	25/8"	25/32"	TW-30704-78	5		—	—	—

NPT female threaded adapters



BT
Nylon

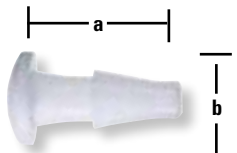


BU
Clear PP



BV
PVC

Press-in plugs



BW
Nylon



BX
PP

NPT female threaded adapters, NPT(F) x tubing ID											
1/8" x 1/8"	Nylon	BT	11/32"	5/8"	1/16"	TW-31500-40	25		—	—	—
1/8" x 1/8"	Clear PP	BU	11/32"	5/8"	1/16"	TW-31501-41	25		—	—	—
1/4" x 1/8"	Nylon	BT	11/32"	5/8"	1/16"	TW-31500-40	25		—	—	—
1/4" x 1/8"	Clear PP	BU	11/32"	5/8"	1/16"	TW-31501-41	25		—	—	—
1/4" x 1/4"	Nylon	BT	11/2"	3/4"	1/8"	TW-31702-20	10		TW-31701-85	100	
1/4" x 3/8"	Nylon	BT	11/2"	3/4"	1/4"	TW-31702-22	10		—	—	—
1/2" x 1/2"	PVC	BV	213/32"	15/32"	15/32"	TW-31207-10	10		—	—	—
3/4" x 3/4"	PVC	BV	27/16"	111/32"	9/16"	TW-31207-20	10		—	—	—
1" x 1"	PVC	BV	21/16"	15/8"	3/4"	TW-31207-30	10		—	—	—

Press-in plugs											
1/16"	Nylon	BW	5/16"	5/32"	—	TW-31220-11	10		—	—	—
1/16"	PP	BX	5/16"	5/32"	—	TW-31220-01	10		—	—	—
1/16"	PVDF	BY	5/16"	5/32"	—	TW-31220-21	10		—	—	—
3/32"	Nylon	BW	13/32"	3/16"	—	TW-31220-12	10		—	—	—
3/32"	PP	BX	13/32"	3/16"	—	TW-31220-02	10		—	—	—
3/32"	PVDF	BY	13/32"	3/16"	—	TW-31220-22	10		—	—	—
1/8"	Nylon	BW	17/32"	5/16"	—	TW-31220-13	10		—	—	—
1/8"	PP	BX	17/32"	5/16"	—	TW-31220-03	10		—	—	—
1/8"	PVDF	BY	17/32"	5/16"	—	TW-31220-23	10		—	—	—
5/32"	Nylon	BW	5/8"	5/16"	—	TW-31220-14	10		—	—	—
5/32"	PP	BX	5/8"	5/16"	—	TW-31220-04	10		—	—	—
5/32"	PVDF	BY	5/8"	5/16"	—	TW-31220-24	10		—	—	—
3/16"	Nylon	BW	3/4"	3/8"	—	TW-31220-15	10		—	—	—
3/16"	PP	BX	3/4"	3/8"	—	TW-31220-05	10		—	—	—
3/16"	PVDF	BY	3/4"	3/8"	—	TW-31220-25	10		—	—	—
1/4"	Nylon	BW	1"	7/16"	—	TW-31220-16	10		—	—	—
1/4"	PP	BX	1"	7/16"	—	TW-31220-06	10		—	—	—
1/4"	PVDF	BY	1"	7/16"	—	TW-31220-26	10		—	—	—

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MASTERFLEX® Barbed Fittings

- Designed to tight tolerances
- Made from virgin materials

Ensure a tight seal every time with Masterflex fittings! Designed to tight tolerances, these fittings match perfectly to your tubing to ensure smooth flow and a proper fit. Fittings are available in four materials and are available in packs of 10.

High-Density Polyethylene (HDPE): Very good chemical resistance. Temp range: -65 to 150°F (-53 to 65°C). Sterilize by ethylene oxide only.

Nylon: Good chemical resistance. Temp range: -50 to 250°F (-46 to 121°C). Sterilize by ethylene oxide only.

Polypropylene (PP): Very good chemical resistance. Temp range: 32 to 275°F (0 to 135°C). Sterilize by ethylene oxide or autoclave.

PVDF: Excellent chemical resistance. Temp range: -80 to 265°F (-62 to 129°C). Sterilize by ethylene oxide or autoclave.



A
Straight



B
Tee



C
Y



D
Male threaded adapter



E
Reducing

FREE certificate of compliance is available for noted fittings on this page. **See page 509.**

Size	Use with Masterflex® tubing sizes			HDPE		Nylon		Polypropylene		PVDF	
	L/S*	I/P*	B/T*	Catalog number	Price/pk of 10	Catalog number	Price/pk of 10	Catalog number	Price/pk of 10	Catalog number	Price/pk of 10
A Straight connectors											
1/16"	13, 14	—	—	LZ-30612-01		LZ-30612-02		LZ-30612-43		LZ-30612-04	
1/8"	16	—	—	LZ-30612-05		LZ-30612-06		LZ-30612-47		LZ-30612-08	
3/16"	15, 25	—	—	LZ-30612-09		LZ-30612-10		LZ-30612-51		LZ-30612-12	
1/4"	17, 24	26	—	LZ-30612-13		LZ-30612-14		LZ-30612-55		LZ-30612-16	
3/8"	18, 35, 36	70, 73	86	LZ-30612-17		LZ-30612-18		LZ-30612-59		LZ-30612-20	
1/2"	—	82, 88	88	LZ-30612-21		LZ-30612-22		LZ-30612-63		LZ-30612-24	
5/8"	—	89	—	LZ-30612-25		LZ-30612-26		LZ-30612-67		LZ-30612-28	
3/4"	—	—	90	LZ-30612-29		LZ-30612-30		LZ-30612-71		LZ-30612-32	
1"	—	—	92	LZ-30612-33		LZ-30612-34		LZ-30612-75		LZ-30612-36	
B Tee connectors (equal leg)											
1/16"	13, 14	—	—	LZ-30613-01		LZ-30613-02		LZ-30613-43		LZ-30613-04	
1/8"	16	—	—	LZ-30613-05		LZ-30613-06		LZ-30613-47		LZ-30613-08	
3/16"	15, 25	—	—	LZ-30613-09		LZ-30613-10		LZ-30613-51		LZ-30613-12	
1/4"	17, 24	26	—	LZ-30613-13		LZ-30613-14		LZ-30613-55		LZ-30613-16	
3/8"	18, 35, 36	70, 73	86	LZ-30613-17		LZ-30613-18		LZ-30613-59		LZ-30613-20	
1/2"	—	82, 88	88	LZ-30613-21		LZ-30613-22		LZ-30613-63		LZ-30613-24	
5/8"	—	89	—	LZ-30613-25		LZ-30613-26		LZ-30613-67		LZ-30613-28	
3/4"	—	—	90	LZ-30613-29		LZ-30613-30		LZ-30613-71		LZ-30613-32	
1"	—	—	92	LZ-30613-33		LZ-30613-34		LZ-30613-75		LZ-30613-36	
C Y connectors (equal leg)											
1/16"	13, 14	—	—	LZ-30614-01		LZ-30614-02		LZ-30614-43		LZ-30614-04	
1/8"	16	—	—	LZ-30614-05		LZ-30614-06		LZ-30614-47		LZ-30614-08	
3/16"	15, 25	—	—	LZ-30614-09		LZ-30614-10		LZ-30614-51		LZ-30614-12	
1/4"	17, 24	26	—	LZ-30614-13		LZ-30614-14		LZ-30614-55		LZ-30614-16	
3/8"	18, 35, 36	70, 73	86	LZ-30614-17		LZ-30614-18		LZ-30614-59		LZ-30614-20	
1/2"	—	82, 88	88	LZ-30614-21		LZ-30614-22		LZ-30614-63		LZ-30614-24	
D NPT male threaded adapters, NPT (M) x											
1/8" x 1/8"	16	—	—	LZ-30615-05		LZ-30615-06		LZ-30615-47		LZ-30615-08	
3/16" x 1/8"	15, 25	—	—	LZ-30615-09		LZ-30615-10		LZ-30615-51		LZ-30615-12	
1/4" x 1/4"	17, 24	26	—	LZ-30615-13		LZ-30615-14		LZ-30615-55		LZ-30615-16	
3/8" x 1/4"	18, 35, 36	70, 73	86	LZ-30615-17		LZ-30615-18		LZ-30615-59		LZ-30615-20	
1/2" x 1/2"	—	82, 88	88	LZ-30615-21		LZ-30615-22		LZ-30615-63		LZ-30615-24	
5/8" x 1/2"	—	89	—	LZ-30615-25		LZ-30615-26		LZ-30615-67		LZ-30615-28	
3/4" x 1/2"	—	—	90	LZ-30615-29		LZ-30615-30		LZ-30615-71		LZ-30615-32	
E Reducing connectors											
1/16" x 1/8"	13, 14	—	—	LZ-30616-01		LZ-30616-02		LZ-30616-43		LZ-30616-04	
1/8" x 3/32"	16	—	—	LZ-30616-05		LZ-30616-06		LZ-30616-47		LZ-30616-08	
3/16" x 1/8"	15, 25	—	—	LZ-30616-09		LZ-30616-10		LZ-30616-51		LZ-30616-12	
1/4" x 1/8"	17, 24	26	—	LZ-30616-13		LZ-30616-14		LZ-30616-55		LZ-30616-16	
3/8" x 1/4"	18, 35, 36	70, 73	86	LZ-30616-17		LZ-30616-18		LZ-30616-59		LZ-30616-20	
1/2" x 3/8"	—	82, 88	88	LZ-30616-21		LZ-30616-22		LZ-30616-63		LZ-30616-24	
5/8" x 1/2"	—	89	—	LZ-30616-25		LZ-30616-26		LZ-30616-67		LZ-30616-28	
3/4" x 1/2"	—	—	90	LZ-30616-29		LZ-30616-30		LZ-30616-71		LZ-30616-32	
1" x 1/2"	—	—	92	LZ-30616-33		LZ-30616-34		LZ-30616-75		LZ-30616-36	



Microbore Tubing Connectors

Connect even the smallest tubing with a leak-free seal from vacuum to 34.5 bar (500 psi)

- Multiple styles to fit your needs
- Stainless steel fitting is autoclavable
- Temperature range from -70 to 500°F (-57 to 260°C)

NEW

Catalog number	Gauge	Masterflex® C/L® tubing size	Tubing size (mm)		Price/ea
			ID1	ID2	
A Straight connectors					
TW-34001-01	33	-10	0.19	—	
TW-34001-02	30	-12	0.25	—	
TW-34001-03	24	-18	0.51	—	
TW-34001-04	20	-26	0.89	—	
TW-34001-05	18	-30	1.14	—	
TW-34001-06	17	-34	1.42	—	
TW-34001-07	14	-42	2.06	—	
TW-34001-08	12	-48	2.79	—	
B Reducing connectors					
TW-34001-11	33 x 30	-10 x -12	0.19	0.25	
TW-34001-12	30 x 24	-12 x -18	0.25	0.51	
TW-34001-13	24 x 20	-18 x -26	0.51	0.89	
TW-34001-14	20 x 18	-26 x -30	0.89	1.14	
TW-34001-15	18 x 17	-30 x -34	1.14	1.42	
TW-34001-16	17 x 14	-34 x -42	1.42	2.06	
TW-34001-17	14 x 12	-42 x -48	2.06	2.79	
TW-34001-18	12 x 1/8" barb	-48 x 1/8" ID	2.79	3.18	
TW-34001-21	33 x 24	-10 x -18	0.19	0.51	
TW-34001-22	30 x 20	-12 x -26	0.25	0.89	
TW-34001-23	24 x 18	-18 x -30	0.51	1.14	
TW-34001-24	20 x 17	-26 x -34	0.89	1.42	
TW-34001-25	18 x 14	-30 x -42	1.14	2.06	
TW-34001-26	17 x 12	-34 x -48	1.42	2.79	
TW-34001-27	14 x 1/8" barb	-42 x 1/8" ID	2.06	3.18	
TW-34001-28	12 x 3/16" barb	-48 x 3/16" ID	2.79	4.76	
C Y connectors					
TW-34001-31	33	-10	0.19	—	
TW-34001-32	30	-12	0.25	—	
TW-34001-33	24	-18	0.51	—	
TW-34001-34	20	-26	0.89	—	
TW-34001-35	18	-30	1.14	—	
TW-34001-36	17	-34	1.42	—	
TW-34001-37	14	-42	2.06	—	
TW-34001-38	12	-48	2.79	—	
TW-34001-41	33 x 30	-10 x -12	0.19	0.25	
TW-34001-42	30 x 24	-12 x -18	0.25	0.51	
TW-34001-43	24 x 20	-18 x -26	0.51	0.89	
TW-34001-44	20 x 18	-26 x -30	0.89	1.14	
TW-34001-45	18 x 17	-30 x -34	1.14	1.42	
TW-34001-46	17 x 14	-34 x -42	1.42	2.06	
TW-34001-47	14 x 12	-42 x -48	2.06	2.79	
TW-34001-48	12 x 1/8" barb	-48 x 1/8" ID	2.79	3.18	

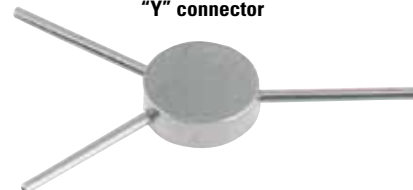
A
Straight connector



B
Reducer connector



C
"Y" connector



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Compression Fittings

Compression fittings are an excellent choice to connect rigid tubing systems and withstand higher pressures than barbed fittings. Assemble the fitting to the tubing by sliding the tubing through a sealing ferrule and using the nut to compress down to form a secure seal.

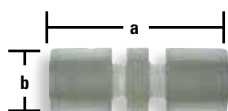
Note: Pressure ratings given are for smaller tubing ODs at 77°F (25°C). Ratings decrease with increases in tubing OD or temperature.

Brass. Good chemical resistance; rated to 400 psi. Temp range: -85 to 482°F (-65 to 250°C). Include brass ferrules; UL-listed for use with flammable liquids; meet ASA, ASME, and SAE (J512) standards.

PVDF. Excellent chemical resistance; rated to 220 psi. Temp range: -20 to 275°F (-29 to 135°C). Include plastic grippers. Sterilize by ethylene oxide or autoclave.

Nylon. Good chemical resistance. Temp range: -50 to 250°F (-46 to 121°C). Sterilize by ethylene oxide only.

Straight unions



A
Nylon



B
Black PP



C
White PP



D
PVDF



E
PFA



F
Brass



G
316 SS



H
Parker
316 SS

Tubing OD	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ pk	Price/ pk
Straight unions											
1/16"	Brass	F	1"	5/16"	1/32"	TW-31412-50	1		—	—	—
1/16"	Parker, 316 SS	H	1 1/16"	5/16"	1/32"	TW-30486-70	1		—	—	—
1/8"	PFA	E	1 15/16"	1/2"	1/16"	TW-31320-21	1		—	—	—
1/8"	Brass	F	1 13/32"	7/16"	3/32"	TW-31412-51	1		—	—	—
1/8"	316 SS	G	7/16"	1 13/32"	7/16"	TW-31406-01	1		—	—	—
1/8"	Parker, 316 SS	H	1 3/8"	7/16"	3/32"	TW-30486-00	1		—	—	—
1/4"	Nylon	A	1"	5/8"	3/16"	TW-06382-11	10		TW-30803-03	100	—
1/4"	Black PP	B	1 5/8"	1 1/16"	5/32"	TW-06444-51	25		—	—	—
1/4"	White PP	C	1"	5/8"	3/16"	TW-06381-10	10		TW-30802-94	100	—
1/4"	PVDF	D	1"	5/8"	3/16"	TW-06381-90	1		TW-30805-00	10	—
1/4"	PFA	E	2 9/16"	5/8"	3/16"	TW-31320-22	1		—	—	—
1/4"	Brass	F	1 5/8"	1/2"	3/16"	TW-31412-00	1		—	—	—
1/4"	316 SS	G	7/16"	1 15/32"	7/16"	TW-31406-02	1		—	—	—
1/4"	Parker, 316 SS	H	1 5/32"	1/2"	3/16"	TW-30486-01	1		—	—	—
5/16"	Nylon	A	1 1/2"	1 1/16"	9/32"	TW-06382-12	10		TW-30803-04	100	—
5/16"	White PP	C	1 1/2"	1 1/16"	9/32"	TW-06381-20	10		TW-30802-95	100	—
5/16"	PVDF	D	1 1/2"	1 1/16"	9/32"	TW-06381-91	1		TW-30805-01	10	—
5/16"	Brass	F	1 1 1/16"	9/8"	1/4"	TW-31412-52	1		—	—	—
5/16"	316 SS	G	1 1 1/16"	5/8"	1/4"	TW-31406-50	1		—	—	—
5/16"	Parker, 316 SS	H	1 3/32"	9/16"	1/4"	TW-30486-02	1		—	—	—
3/8"	Nylon	A	1 1/4"	1 3/16"	1/4"	TW-06382-13	10		TW-30803-05	50	—
3/8"	White PP	B	1 1/4"	1 3/16"	1/4"	TW-06381-30	10		—	—	—
3/8"	Black PP	C	1 13/16"	1 3/16"	1/4"	TW-06444-52	25		—	—	—
3/8"	PVDF	D	1 1/4"	1 3/16"	1/4"	TW-06381-92	1		TW-30805-02	10	—
3/8"	PFA	E	2 7/32"	1 3/16"	9/32"	TW-31320-23	1		—	—	—
3/8"	Brass	F	1 13/16"	1 1/16"	9/32"	TW-31412-01	1		—	—	—
3/8"	316 SS	G	1 13/16"	1 1/16"	9/32"	TW-31406-03	1		—	—	—
3/8"	Parker, 316 SS	H	1 3/4"	5/8"	9/32"	TW-30486-03	1		—	—	—
1/2"	Nylon	A	1 13/32"	1 9/16"	3/8"	TW-06382-14	10		TW-30803-06	50	—
1/2"	White PP	C	1 13/32"	1 5/16"	3/8"	TW-06381-40	10		—	—	—
1/2"	Black PP	B	2 1/32"	1"	3/8"	TW-06444-54	25		—	—	—
1/2"	PVDF	D	1 13/32"	1 9/16"	3/8"	TW-06381-93	1		TW-30805-03	10	—
1/2"	PFA	E	2 3/4"	1 1/8"	3/8"	TW-31321-65	1		—	—	—
1/2"	Brass	F	2 1/8"	1 1 1/16"	13/32"	TW-31412-02	1		—	—	—
1/2"	316 SS	G	2 1/8"	1 1 1/16"	13/32"	TW-31406-04	1		—	—	—
1/2"	Parker, 316 SS	H	2"	1 3/16"	13/32"	TW-30486-04	1		—	—	—
5/8"	Nylon	A	1 17/32"	1 1/16"	1/2"	TW-06382-15	10		TW-30803-07	50	—
5/8"	White PP	C	1 17/32"	1 1/16"	1/2"	TW-06381-50	10		—	—	—
5/8"	Black PP	B	2 13/32"	1 1/4"	1/2"	TW-06444-56	25		—	—	—
5/8"	PVDF	D	1 17/32"	1 1/16"	1/2"	TW-06381-94	1		TW-30805-04	10	—
5/8"	Brass	F	2 1/32"	1"	1/2"	TW-31412-53	1		—	—	—
5/8"	316 SS	G	2 1/32"	1"	1/2"	TW-31406-51	1		—	—	—
5/8"	Parker, 316 SS	H	2 1/32"	1"	1/2"	TW-30486-05	1		—	—	—
3/4"	White PP	C	1 3/4"	1 5/8"	5/8"	TW-06381-60	10		—	—	—
3/4"	PFA	E	2 1/2"	1 3/16"	1 1/16"	TW-31320-24	1		—	—	—
3/4"	PVDF	D	1 3/4"	1 5/8"	5/8"	TW-06381-95	1		TW-30805-05	10	—
3/4"	Brass	F	2 1/8"	1 1/16"	5/8"	TW-31412-03	1		—	—	—
3/4"	316 SS	G	2 1/8"	1 1/8"	5/8"	TW-31406-52	1		—	—	—
3/4"	Parker, 316 SS	H	2 3/32"	1 3/16"	5/8"	TW-30486-06	1		—	—	—

Find MORE!

For rigid and other types of tubing, see our "Tubing" section on pages 1823-1859.



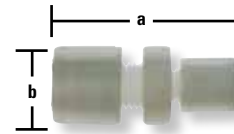
PFA. Superior chemical resistance; rated to 150 psi (40 psi without grooving tool).
Temp range: up to 347°F (175°C). Include built-in ferrules. Sterilize by either ethylene oxide or autoclave.

Polypropylene (PP). Very good chemical resistance.
Black: Rated to 300 psi. Temp range: 0 to 212°F (-17 to 100°C). With SS gripping rings.
Sterilize by autoclave.

White: Rated to 220 psi. Temp range: 32 to 212°F (0 to 100°C). With plastic grippers. Sterilize by ethylene oxide.

Stainless steel (316 SS). Very good chemical resistance; pressure limit depends on the tubing used, not the fitting. Temp range: -40 to 200°F (-40 to 93°C). Include ferrules. Sterilize by either ethylene oxide, autoclave, or gamma irradiation.

Reducing unions



I
Nylon



J
White PP



K
PVDF



L
PFA



M
Brass



N
316 SS



O
Parker
316 SS

Tubing OD	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ pk	Price/ pk
Reducing unions											
1/4" x 1/8"	White PP	J	1 11/16" [†]	5/8"	3/32"	TW-06381-05	10		—	—	—
1/4" x 1/8"	PVDF	K	1 5/8" [†]	5/8"	3/32"	TW-06381-80	1		TW-30805-06	10	—
1/4" x 1/8"	PFA	L	2"	5/8"	1/16"	TW-31320-00	1		—	—	—
1/4" x 1/8"	316 SS	N	1 17/32"	1/2"	3/32"	TW-31406-23	1		—	—	—
1/4" x 1/8"	Parker, 316 SS	O	1 1/2"	1/2"	3/32"	TW-30486-08	1		—	—	—
5/16" x 1/4"	Nylon	I	1 27/32" [†]	1 1/16"	7/32"	TW-06382-17	10		TW-30803-09	100	—
5/16" x 1/4"	White PP	J	1 27/32" [†]	1 1/16"	7/32"	TW-06381-70	10		TW-30815-01	100	—
5/16" x 1/4"	PVDF	K	1 7/8" [†]	1 1/16"	7/32"	TW-06381-81	1		TW-30805-07	10	—
5/16" x 1/4"	Brass	M	1 11/16"	9/16"	3/16"	TW-31412-54	1		—	—	—
5/16" x 1/4"	316 SS	N	1 21/32"	9/16"	3/16"	TW-31406-24	1		—	—	—
5/16" x 1/4"	Parker, 316 SS	O	1 21/32"	9/16"	3/16"	TW-30486-09	1		—	—	—
3/8" x 1/4"	Nylon	I	2 1/16" [†]	1 3/16"	7/32"	TW-06382-18	10		TW-30803-10	100	—
3/8" x 1/4"	White PP	J	2 1/16" [†]	1 3/16"	7/32"	TW-06381-72	10		—	—	—
3/8" x 1/4"	PVDF	K	2 1/32" [†]	1 3/16"	7/32"	TW-06381-82	1		TW-30805-08	10	—
3/8" x 1/4"	PFA	L	2 1/8"	1 3/16"	3/16"	TW-31320-01	1		—	—	—
3/8" x 1/4"	Brass	M	1 11/16"	5/8"	3/16"	TW-31412-25	1		—	—	—
3/8" x 1/4"	316 SS	N	1 11/16"	5/8"	3/16"	TW-31406-25	1		—	—	—
3/8" x 1/4"	Parker, 316 SS	O	1 11/16"	5/8"	3/16"	TW-30486-10	1		—	—	—
3/8" x 5/16"	316 SS	N	1 3/4"	5/8"	1/4"	TW-31406-26	1		—	—	—
3/8" x 5/16"	Parker, 316 SS	O	1 3/4"	5/8"	1/4"	TW-30486-11	1		—	—	—
1/2" x 3/8"	Nylon	I	2 13/32" [†]	1 5/16"	1 1/32"	TW-06382-19	10		TW-30803-11	10	—
1/2" x 3/8"	White PP	J	2 13/32" [†]	1 5/16"	1 1/32"	TW-06381-74	10		—	—	—
1/2" x 3/8"	PVDF	K	2 11/32" [†]	1 5/16"	1 1/32"	TW-06381-83	1		TW-30805-09	10	—
1/2" x 1/2"	PFA	L	2 1/8"	1 5/16"	1/16"	TW-31320-02	1		—	—	—
1/2" x 1/4"	PFA	L	2 3/32"	1 5/16"	3/16"	TW-31320-03	1		—	—	—
1/2" x 1/4"	Brass	M	1 27/32"	7/8"	3/16"	TW-31412-56	1		—	—	—
1/2" x 1/4"	316 SS	N	1 27/32"	1 3/16"	3/16"	TW-31406-27	1		—	—	—
1/2" x 1/4"	Parker, 316 SS	O	1 27/32"	1 3/16"	3/16"	TW-30486-12	1		—	—	—
1/2" x 3/8"	PFA	L	2 3/16"	1 5/16"	9/32"	TW-31320-04	1		—	—	—
1/2" x 3/8"	Brass	M	1 29/32"	1 3/16"	9/32"	TW-31412-28	1		—	—	—
1/2" x 3/8"	316 SS	N	1 29/32"	1 3/16"	9/32"	TW-31406-28	1		—	—	—
1/2" x 3/8"	Parker, 316 SS	O	1 29/32"	1 3/16"	1/4"	TW-30486-13	1		—	—	—
5/8" x 3/8"	White PP	J	2 7/16" [†]	1 1/16"	1 1/32"	TW-06381-76	1		—	—	—
5/8" x 3/8"	PVDF	K	2 1/16" [†]	1 1/16"	1 1/32"	TW-06381-84	1		TW-30805-10	10	—
5/8" x 3/8"	Brass	M	1 19/16"	1"	1/4"	TW-31412-57	1		—	—	—
5/8" x 3/8"	316 SS	N	1 19/16"	1"	1/4"	TW-31406-54	1		—	—	—
5/8" x 3/8"	Parker, 316 SS	O	1 19/16"	1 5/16"	1/4"	TW-30486-14	1		—	—	—
3/4" x 1/2"	PFA	L	2 19/32"	1 3/16"	7/16"	TW-31320-05	1		—	—	—
3/4" x 1/2"	Brass	M	2 15/32"	1 3/16"	7/16"	TW-31412-58	1		—	—	—
3/4" x 1/2"	316 SS	N	2 15/32"	1 3/16"	7/16"	TW-31406-55	1		—	—	—
3/4" x 1/2"	Parker, 316 SS	O	2 15/32"	1 3/16"	7/16"	TW-30486-15	1		—	—	—

[†]Dimension refers to the threaded portion.

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Fittings

Compression, Elbows

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Compression Fittings (continued)

Compression fittings are an excellent choice to connect rigid tubing systems and withstand higher pressures than barbed fittings. Assemble the fitting to the tubing by sliding the tubing through a sealing ferrule and using the nut to compress down to form a secure seal.

Note: Pressure ratings given are for smaller tubing ODs at 77°F (25°C). Ratings decrease with increases in tubing OD or temperature.

For materials descriptions, refer to pages 526–527.



Tubing OD	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
Union elbows											
1/16"	316 SS	V	1/16"	5/16"	1/32"	TW-31406-56	1	—	—	—	—
1/16"	Parker, 316 SS	W	1/16"	1/16"	1/32"	TW-30486-17	1	—	—	—	—
1/8"	PFA	T	1 13/32"	1 13/32"	1/16"	TW-31320-25	1	—	—	—	—
1/8"	Brass	U	7/8"	7/16"	1/16"	TW-31412-06	1	—	—	—	—
1/8"	316 SS	V	7/8"	7/16"	1/16"	TW-31406-06	1	—	—	—	—
1/8"	Parker, 316 SS	W	7/8"	7/8"	1/16"	TW-30486-18	1	—	—	—	—
1/4"	Nylon	P	1 1/8"	1 1/8"	7/32"	TW-06382-21	10	—	TW-30803-14	10	—
1/4"	White PP	R	1 1/8"	1 1/8"	7/32"	TW-06383-10	10	—	—	—	—
1/4"	Black PP	Q	1 1/16"	1 1/16"	9/32"	TW-06444-41	25	—	—	—	—
1/4"	PVDF	S	1 1/8"	1 1/8"	7/32"	TW-06383-50	1	—	TW-30805-11	10	—
1/4"	PFA	T	1 17/32"	1 17/32"	3/16"	TW-31320-26	1	—	—	—	—
1/4"	Brass	U	1 1/32"	9/16"	3/16"	TW-31412-07	1	—	—	—	—
1/4"	316 SS	V	1 1/32"	9/16"	3/16"	TW-31406-07	1	—	—	—	—
1/4"	Parker, 316 SS	W	1 1/32"	1 1/32"	3/16"	TW-30486-19	1	—	—	—	—
5/16"	White PP	R	1 1/4"	1 1/4"	9/32"	TW-06383-20	10	—	—	—	—
5/16"	PVDF	W	1 1/4"	1 1/4"	9/32"	TW-06383-60	1	—	TW-30805-12	10	—
3/8"	Nylon	P	1 11/32"	1 11/32"	1/4"	TW-06382-22	10	—	TW-30803-15	50	—
3/8"	White PP	R	1 11/32"	1 11/32"	1/4"	TW-06383-30	10	—	—	—	—
3/8"	Black PP	Q	1 23/32"	1 23/32"	1/4"	TW-06444-42	25	—	—	—	—
3/8"	PVDF	S	1 11/32"	1 11/32"	1/4"	TW-06383-70	1	—	TW-30805-13	10	—
3/8"	PFA	T	1 29/32"	1 29/32"	9/32"	TW-31320-27	1	—	—	—	—
3/8"	Brass	U	1 3/16"	1 3/16"	9/32"	TW-31412-08	1	—	—	—	—
3/8"	316 SS	V	1 3/16"	1 1/16"	1/4"	TW-31406-08	1	—	—	—	—
3/8"	Parker, 316 SS	W	1 3/16"	1 3/16"	1/4"	TW-30486-20	1	—	—	—	—
1/2"	White PP	R	1 9/16"	1 9/16"	3/8"	TW-06383-40	10	—	—	—	—
1/2"	Black PP	Q	2 3/32"	2 3/32"	3/8"	TW-06444-44	25	—	—	—	—
1/2"	PVDF	S	1 9/16"	1 9/16"	3/8"	TW-06383-80	1	—	TW-30805-14	10	—
1/2"	PFA	T	1 3/4"	1 3/4"	3/8"	TW-31321-67	1	—	—	—	—
1/2"	Brass	U	1 3/16"	1 3/8"	13/32"	TW-31412-09	1	—	—	—	—
1/2"	316 SS	V	1 3/8"	1 3/16"	13/32"	TW-31406-09	1	—	—	—	—
1/2"	Parker, 316 SS	W	1 13/32"	1 13/32"	13/32"	TW-30486-21	1	—	—	—	—
5/8"	White PP	R	1 13/16"	1 13/16"	1/2"	TW-06383-42	1	—	—	—	—
5/8"	Black PP	Q	2 5/16"	2 5/16"	1/2"	TW-06444-46	25	—	—	—	—
5/8"	PVDF	S	1 13/16"	1 13/16"	1/2"	TW-06383-82	1	—	TW-30805-15	10	—
5/8"	Brass	U	1 1/2"	1"	1/2"	TW-31412-60	1	—	—	—	—
5/8"	316 SS	V	1 1/2"	1"	1/2"	TW-31406-57	1	—	—	—	—
5/8"	Parker, 316 SS	W	1 13/32"	1 13/32"	1/2"	TW-30486-22	1	—	—	—	—
3/4"	PFA	T	2 13/32"	2 13/32"	11/16"	TW-31320-28	1	—	—	—	—
3/4"	Brass	U	1 9/16"	1 1/8"	19/32"	TW-31412-61	1	—	—	—	—
3/4"	316 SS	V	1 9/16"	1 1/8"	19/32"	TW-31406-58	1	—	—	—	—
3/4"	Parker, 316 SS	W	1 17/32"	1 17/32"	19/32"	TW-30486-23	1	—	—	—	—



Unique Products



Exceptional Service



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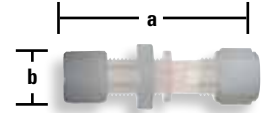


Compression fittings are an excellent choice to connect rigid tubing systems and withstand higher pressures than barbed fittings. Assemble the fitting to the tubing by sliding the tubing through a sealing ferrule and using the nut to compress down to form a secure seal.

Note: Pressure ratings given are for smaller tubing ODs at 77°F (25°C). Ratings decrease with increases in tubing OD or temperature.

For materials descriptions, refer to pages 526–527.

Bulkhead unions



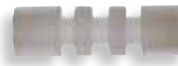
X
Nylon



Y
Black PP



Z
White PP



AA
PVDF



AB
PFA

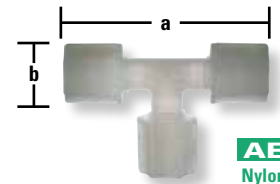


AC
Brass



AD
316 SS

Union tees



AE
Nylon



AF
Black PP

Tubing OD	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ pk	Price/ pk
Bulkhead unions											
1/8"	PFA	AB	2 1/4"	1/2"	1/16"	TW-31320-82	1		—	—	—
1/8"	316 SS	AD	2 1/2"	1/2"	3/32"	TW-31406-12	1		—	—	—
1/4"	Nylon	X	2 3/32" [†]	5/8"	7/32"	TW-06382-26	10		TW-30803-19	50	—
1/4"	Black PP	Y	2 3/16"	23/32"	5/32"	TW-06444-30	25		—	—	—
1/4"	White PP	Z	2 7/32" [†]	3/8"	7/32"	TW-06390-10	10		—	—	—
1/4"	PVDF	AA	2 9/32" [†]	5/8"	7/32"	TW-06390-50	1		TW-30805-16	10	—
1/4"	PFA	AB	2 3/8"	3/8"	3/16"	TW-31320-83	1		—	—	—
1/4"	Brass	AC	2 9/32"	3/8"	3/16"	TW-31412-13	1		—	—	—
1/4"	316 SS	AD	2 9/32"	5/8"	3/16"	TW-31406-13	1		—	—	—
5/16"	Nylon	X	2 9/16" [†]	1 1/16"	9/32"	TW-06382-27	10		TW-30803-20	50	—
5/16"	White PP	Z	2 9/16" [†]	1 1/16"	9/32"	TW-06390-20	10		—	—	—
5/16"	PVDF	AA	2 1 1/32" [†]	1 1/16"	9/32"	TW-06390-60	1		TW-30805-17	10	—
5/16"	Brass	AC	2 3/8"	3/8"	1/4"	TW-31412-62	1		—	—	—
5/16"	316 SS	AD	2 3/8"	3/8"	1/4"	TW-31406-59	1		—	—	—
3/8"	Nylon	X	2 1 1/16"	1 3/16"	1 1/32"	TW-06382-28	10		TW-30803-21	50	—
3/8"	Black PP	Y	2 5/8"	1 9/16"	1/4"	TW-06444-32	25		—	—	—
3/8"	White PP	Z	2 1 9/16" [†]	1 3/16"	1 1/32"	TW-06390-30	10		—	—	—
3/8"	PVDF	AA	2 1 1/32" [†]	1 3/16"	1 1/32"	TW-06390-70	1		TW-30805-18	10	—
3/8"	PFA	AB	2 2 3/32"	1 3/16"	9/32"	TW-31320-84	1		—	—	—
3/8"	Brass	AC	2 1 5/32"	1 3/16"	9/32"	TW-31412-14	1		—	—	—
3/8"	316 SS	AD	2 1 5/32"	3/4"	9/32"	TW-31406-14	1		—	—	—
1/2"	Nylon	X	3 3/32"	1 9/16"	1 5/32"	TW-06382-29	10		TW-30803-22	50	—
1/2"	Black PP	Y	2 3/4"	1 7/32"	3/8"	TW-06444-34	25		—	—	—
1/2"	White PP	Z	3 1/32" [†]	1 5/16"	1 5/32"	TW-06390-40	10		—	—	—
1/2"	PVDF	AA	2 2 9/32" [†]	1 9/16"	1 5/32"	TW-06390-80	1		TW-30805-19	10	—
1/2"	Brass	AC	2 2 5/32"	7/8"	1 3/32"	TW-31412-63	1		—	—	—
1/2"	316 SS	AD	2 2 5/32"	7/8"	1 3/32"	TW-31406-15	1		—	—	—
3/4"	White PP	Z	3 2 3/32" [†]	1 9/16"	9/8"	TW-06390-42	10		—	—	—
3/4"	PVDF	AA	3 2 3/32" [†]	1 9/16"	9/8"	TW-06390-82	1		—	—	—
3/4"	PFA	AB	3 3/32"	1 9/16"	1 1/16"	TW-31320-85	1		—	—	—
3/4"	Brass	AC	3 3/32"	1 1/8"	9/8"	TW-31412-64	1		—	—	—
3/4"	316 SS	AD	3 3/32"	1 1/8"	9/8"	TW-31406-60	1		—	—	—

Union tees

1/16"	Brass	AJ	1 3/8"	5/16"	1/32"	TW-31412-65	1		—	—	—
1/16"	316 SS	AK	2 3/32"	3/8"	1/32"	TW-31406-16	1		—	—	—
1/16"	Parker, 316 SS	AL	1 13/32"	3/8"	1/32"	TW-30486-25	1		—	—	—
1/8"	Nylon	AE	1 1/8"	3/4"	3/32"	TW-06382-31	10		TW-30803-23	100	—
1/8"	White PP	AG	1 1/8"	3/4"	3/32"	TW-06382-05	10		—	—	—
1/8"	PVDF	AH	1 1/8"	3/4"	3/32"	TW-06382-45	1		TW-30805-21	10	—
1/8"	PFA	AI	2 5/16"	1 13/32"	1/16"	TW-31320-29	1		—	—	—
1/8"	Brass	AJ	7/8"	3/8"	3/32"	TW-31412-17	1		—	—	—
1/8"	316 SS	AK	7/8"	3/8"	3/32"	TW-31406-17	1		—	—	—
1/4"	Nylon	AE	1 1 5/32"	1 1/32"	7/32"	TW-06382-32	10		TW-30803-24	50	—
1/4"	White PP	AG	1 1 5/32"	1 1/32"	7/32"	TW-06382-10	10		—	—	—
1/4"	Black PP	AF	2 3/16"	1 7/16"	5/32"	TW-06444-61	25		—	—	—
1/4"	PVDF	AH	1 1 5/32"	1 1/32"	7/32"	TW-06382-50	1		TW-30805-22	10	—
1/4"	PFA	AI	2 1 3/32"	1 7/32"	3/16"	TW-31320-30	1		—	—	—
1/4"	Brass	AJ	2 3/32"	9/16"	3/16"	TW-31412-18	1		—	—	—
1/4"	316 SS	AK	2 3/32"	9/16"	3/16"	TW-31406-18	1		—	—	—
1/4"	Parker, 316 SS	AL	2 3/32"	9/16"	3/16"	TW-30486-27	1		—	—	—
5/16"	Nylon	AE	1 5/8"	1 5/32"	9/32"	TW-06382-33	10		TW-30803-25	50	—
5/16"	White PP	AG	1 5/8"	1 5/32"	9/32"	TW-06382-20	10		—	—	—
5/16"	PVDF	AH	1 5/8"	1 5/32"	9/32"	TW-06382-60	1		TW-30805-23	10	—
5/16"	Brass	AJ	2 5/16"	5/8"	1/4"	TW-31412-66	1		—	—	—
5/16"	316 SS	AK	2 5/16"	5/8"	1/4"	TW-31406-61	1		—	—	—
5/16"	Parker, 316 SS	AL	1 9/16"	5/8"	1/4"	TW-30486-28	1		—	—	—

[†]Dimension refers to the threaded portion.

See next page for more...

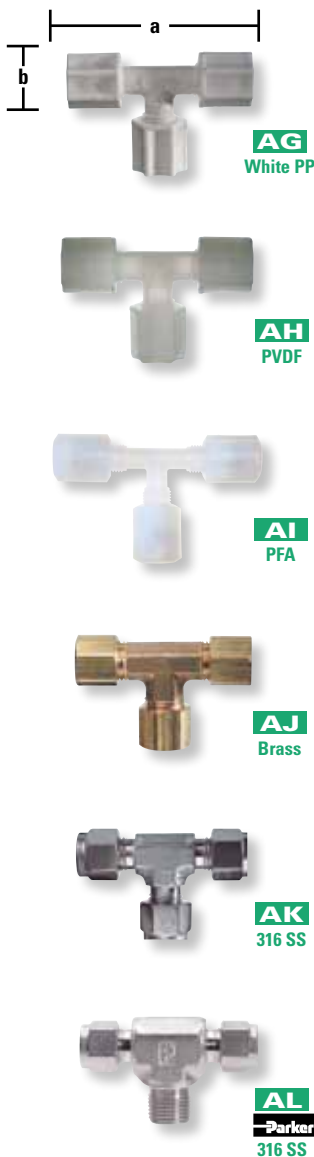
Compression Fittings (continued)

Compression fittings are an excellent choice to connect rigid tubing systems and withstand higher pressures than barbed fittings. Assemble the fitting to the tubing by sliding the tubing through a sealing ferrule and using the nut to compress down to form a secure seal.

Note: Pressure ratings given are for smaller tubing ODs at 77°F (25°C). Ratings decrease with increases in tubing OD or temperature.

For materials descriptions, refer to pages 526–527.

Union tees (continued)



Tubing OD	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ pk	Price/ pk
Union tees—continued											
8 mm	PFA	AS	73 mm	45 mm	6 mm	TW-31321-48	1		—	—	—
3/8"	Nylon	AE	1 1/16"	1 3/8"	1/4"	TW-06382-34	10		TW-30803-26	50	—
3/8"	White PP	AG	1 1/16"	1 3/8"	1/4"	TW-06382-30	10		—	—	—
3/8"	Black PP	AF	2 3/8"	1 23/32"	1/4"	TW-06444-62	25		—	—	—
3/8"	PVDF	AH	1 1/16"	1 3/8"	1/4"	TW-06382-70	1		TW-30805-24	10	—
3/8"	PFA	AI	3"	1 23/32"	5/16"	TW-31320-31	1		—	—	—
3/8"	Brass	AJ	1 3/16"	5/8"	3/32"	TW-31412-19	1		—	—	—
3/8"	316 SS	AK	2 3/8"	1 1/16"	1/4"	TW-31406-19	1		—	—	—
3/8"	Parker, 316 SS	AL	2 3/8"	5/8"	1/4"	TW-30486-29	1		—	—	—
1/2"	Nylon	AE	2 1/2"	1 13/32"	3/8"	TW-06382-35	10		TW-30803-27	50	—
1/2"	White PP	AG	2 1/2"	1 13/32"	3/8"	TW-06382-40	10		—	—	—
1/2"	Black PP	AF	2 1/2"	1 13/32"	3/8"	TW-06444-64	25		—	—	—
1/2"	PVDF	AH	2 1/2"	1 13/32"	3/8"	TW-06382-80	1		—	—	—
1/2"	PFA	AI	2 1/16"	1 15/16"	7/16"	TW-31320-32	1		—	—	—
1/2"	Brass	AJ	2 1/16"	7/8"	13/32"	TW-31412-20	1		—	—	—
1/2"	316 SS	AK	2 1/16"	7/8"	13/32"	TW-31406-20	1		—	—	—
1/2"	Parker, 316 SS	AL	2 1/16"	13/16"	1/2"	TW-30486-30	1		—	—	—
5/8"	White PP	AG	2 1/2"	1 13/32"	1/2"	TW-06382-42	10		—	—	—
5/8"	Black PP	AF	3 3/8"	2 3/32"	1/2"	TW-06444-66	25		—	—	—
5/8"	PVDF	AH	2 1/2"	1 13/16"	1/2"	TW-06382-82	1		—	—	—
5/8"	Brass	AJ	3 1/2"	1"	1/2"	TW-31412-67	1		—	—	—
5/8"	316 SS	AK	3 1/2"	1"	1/2"	TW-31406-62	1		—	—	—
5/8"	Parker, 316 SS	AL	2 21/32"	7/8"	1/2"	TW-30486-31	1		—	—	—
3/4"	PFA	AI	3 3/8"	2 13/32"	11/16"	TW-31320-33	1		—	—	—
3/4"	Brass	AJ	3 1/8"	1 1/8"	19/32"	TW-31412-68	1		—	—	—
3/4"	316 SS	AK	3 1/8"	1 1/8"	19/32"	TW-31406-63	1		—	—	—
3/4"	Parker, 316 SS	AL	3 3/8"	1 1/8"	19/32"	TW-30486-32	1		—	—	—
5/16"	Nylon	AE	1 9/8"	1 3/32"	3/32"	TW-06382-33	10		TW-30803-25	50	—
5/16"	White PP	AG	1 3/8"	1 3/32"	3/32"	TW-06382-20	10		—	—	—
5/16"	PVDF	AH	1 5/8"	1 3/32"	3/32"	TW-06382-60	1		TW-30805-23	10	—
5/16"	Brass	AJ	2 3/16"	5/8"	1/4"	TW-31412-66	1		—	—	—
5/16"	316 SS	AK	2 3/16"	5/8"	1/4"	TW-31406-61	1		—	—	—
5/16"	Parker, 316 SS	AL	1 5/16"	5/8"	1/4"	TW-30486-28	1		—	—	—
8 mm	PFA	AI	73 mm	45 mm	6 mm	TW-31321-48	1		—	—	—
3/8"	Nylon	AE	1 1/16"	1 3/8"	1/4"	TW-06382-34	10		TW-30803-26	50	—
3/8"	White PP	AG	1 1/16"	1 3/8"	1/4"	TW-06382-30	10		—	—	—
3/8"	Black PP	AF	2 3/8"	1 23/32"	1/4"	TW-06444-62	25		—	—	—
3/8"	PVDF	AH	1 1/16"	1 3/8"	1/4"	TW-06382-70	1		TW-30805-24	10	—
3/8"	PFA	AI	3"	1 23/32"	5/16"	TW-31320-31	1		—	—	—
3/8"	Brass	AJ	1 3/16"	5/8"	3/32"	TW-31412-19	1		—	—	—
3/8"	316 SS	AK	2 3/8"	1 1/16"	1/4"	TW-31406-19	1		—	—	—
3/8"	Parker, 316 SS	AL	2 3/8"	5/8"	1/4"	TW-30486-29	1		—	—	—
1/2"	Nylon	AE	2 1/2"	1 13/32"	3/8"	TW-06382-35	10		TW-30803-27	50	—
1/2"	White PP	AG	2 1/2"	1 13/32"	3/8"	TW-06382-40	10		—	—	—
1/2"	Black PP	AF	2 1/2"	1 13/32"	3/8"	TW-06444-64	25		—	—	—
1/2"	PVDF	AH	2 1/2"	1 13/32"	3/8"	TW-06382-80	1		—	—	—
1/2"	PFA	AI	2 1/16"	1 15/16"	7/16"	TW-31320-32	1		—	—	—
1/2"	Brass	AJ	2 1/16"	7/8"	13/32"	TW-31412-20	1		—	—	—
1/2"	316 SS	AK	2 1/16"	7/8"	13/32"	TW-31406-20	1		—	—	—
1/2"	Parker, 316 SS	AL	2 1/16"	13/16"	1/2"	TW-30486-30	1		—	—	—
5/8"	White PP	AG	2 1/2"	1 13/32"	1/2"	TW-06382-42	10		—	—	—
5/8"	Black PP	AF	3 3/8"	2 3/32"	1/2"	TW-06444-66	25		—	—	—
5/8"	PVDF	AH	2 1/2"	1 13/16"	1/2"	TW-06382-82	1		—	—	—
5/8"	Brass	AJ	3 1/2"	1"	1/2"	TW-31412-67	1		—	—	—
5/8"	316 SS	AK	3 1/2"	1"	1/2"	TW-31406-62	1		—	—	—
5/8"	Parker, 316 SS	AL	2 21/32"	7/8"	1/2"	TW-30486-31	1		—	—	—
3/4"	PFA	AI	3 3/8"	2 13/32"	11/16"	TW-31320-33	1		—	—	—
3/4"	Brass	AJ	3 1/8"	1 1/8"	19/32"	TW-31412-68	1		—	—	—
3/4"	316 SS	AK	3 1/8"	1 1/8"	19/32"	TW-31406-63	1		—	—	—
3/4"	Parker, 316 SS	AL	3 3/8"	1 1/8"	19/32"	TW-30486-32	1		—	—	—



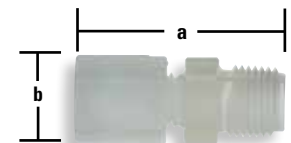
Compression fittings are an excellent choice to connect rigid tubing systems and withstand higher pressures than barbed fittings. Assemble the fitting to the tubing by sliding the tubing through a sealing ferrule and using the nut to compress down to form a secure seal.

Note: Pressure ratings given are for smaller tubing ODs at 77°F (25°C). Ratings decrease with increases in tubing OD or temperature.

For materials descriptions, refer to pages 526–527.

Tubing OD	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
Male threaded adapters (straight), tubing OD x NPT(M)											
1/16" x 1/16"	316 SS	AS	15/16"	5/16"	1/16"	TW-31406-33	1	—	—	—	—
1/16" x 1/16"	Parker, 316 SS	AT	29/32"	5/16"	1/32"	TW-30486-34	1	—	—	—	—
1/8" x 1/8"	Nylon	AM	7/8"	7/16"	3/32"	TW-06382-36	10	TW-30803-28	100	—	—
1/8" x 1/8"	White PP	AO	7/8"	7/16"	3/32"	TW-06385-05	10	TW-30815-21	100	—	—
1/8" x 1/8"	PVDF	AP	7/8"	7/16"	3/32"	TW-06385-80	1	TW-30805-27	10	—	—
1/8" x 1/8"	PFA	AQ	15/16"	1/2"	1/16"	TW-31320-07	1	—	—	—	—
1/8" x 1/8"	Brass	AR	17/32"	7/16"	3/32"	TW-31412-34	1	—	—	—	—
1/8" x 1/8"	316 SS	AS	13/16"	7/16"	1/16"	TW-31406-34	1	—	—	—	—
1/8" x 1/8"	Parker, 316 SS	AT	13/16"	7/16"	1/16"	TW-30486-35	1	—	—	—	—
1/8" x 1/8"	PFA	AQ	17/32"	31/32"	3/32"	TW-31321-69	1	—	—	—	—
1/4" x 1/8"	Nylon	AM	1"	5/8"	7/32"	TW-06382-37	10	TW-30803-29	100	—	—
1/4" x 1/8"	White PP	AO	1"	5/8"	7/32"	TW-06385-10	10	TW-30815-22	100	—	—
1/4" x 1/8"	Black PP	AN	13/16"	11/16"	5/32"	TW-06444-00	25	—	—	—	—
1/4" x 1/8"	PVDF	AP	1"	5/8"	7/32"	TW-06385-81	1	TW-30805-28	10	—	—
1/4" x 1/8"	PFA	AQ	123/32"	5/8"	3/16"	TW-31320-08	1	—	—	—	—
1/4" x 1/8"	Brass	AR	17/32"	9/16"	5/32"	TW-31412-69	1	—	—	—	—
1/4" x 1/8"	316 SS	AS	17/32"	9/16"	5/32"	TW-31406-64	1	—	—	—	—
1/4" x 1/8"	Parker, 316 SS	AT	17/32"	1/2"	5/32"	TW-30486-36	1	—	—	—	—
1/4" x 1/8"	Nylon	AM	13/16"	5/8"	7/32"	TW-06382-38	10	TW-30803-30	100	—	—
1/4" x 1/8"	White PP	AO	13/16"	5/8"	7/32"	TW-06385-20	10	TW-30815-23	100	—	—
1/4" x 1/4"	Black PP	AN	1 1/2"	11/16"	5/32"	TW-06444-01	25	—	—	—	—
1/4" x 1/4"	PVDF	AP	13/16"	5/8"	7/32"	TW-06385-82	1	TW-30805-29	10	—	—
1/4" x 1/4"	PFA	AQ	123/32"	5/8"	3/16"	TW-31320-09	1	—	—	—	—
1/4" x 1/4"	Brass	AR	17/32"	9/16"	3/16"	TW-31412-35	1	—	—	—	—
1/4" x 1/4"	316 SS	AS	17/32"	9/16"	17/32"	TW-31406-35	1	—	—	—	—
1/4" x 1/4"	Parker, 316 SS	AT	17/32"	9/16"	17/32"	TW-30486-37	1	—	—	—	—
1/4" x 3/8"	PFA	AQ	123/32"	13/16"	3/16"	TW-31321-19	1	—	—	—	—
1/4" x 1/2"	PFA	AQ	17/16"	13/16"	3/16"	TW-31321-20	1	—	—	—	—
1/4" x 1/2"	Brass	AR	13/4"	9/16"	3/16"	TW-31412-70	1	—	—	—	—
1/4" x 1/2"	316 SS	AS	13/4"	7/8"	3/16"	TW-31406-37	1	—	—	—	—
1/4" x 1/2"	Parker, 316 SS	AT	13/4"	7/8"	3/16"	TW-30486-38	1	—	—	—	—
5/16" x 1/4"	Nylon	AM	13/16"	11/16"	9/32"	TW-06382-39	10	TW-30803-31	100	—	—
5/16" x 1/4"	White PP	AO	13/16"	11/16"	9/32"	TW-06385-30	10	TW-30815-24	100	—	—
5/16" x 1/4"	PVDF	AP	13/16"	11/16"	9/32"	TW-06385-83	1	TW-30805-30	10	—	—
5/16" x 3/8"	Brass	AR	17/32"	5/8"	1/4"	TW-31412-71	1	—	—	—	—
5/16" x 3/8"	316 SS	AS	17/32"	5/8"	1/4"	TW-31406-65	1	—	—	—	—
3/8" x 1/8"	PFA	AQ	17/16"	13/16"	3/16"	TW-31321-21	1	—	—	—	—
3/8" x 1/4"	Nylon	AM	17/32"	13/16"	5/16"	TW-06382-41	10	TW-30803-32	100	—	—
3/8" x 1/4"	White PP	AO	17/32"	13/16"	5/16"	TW-06385-40	10	TW-30815-25	100	—	—
3/8" x 1/4"	PVDF	AP	17/32"	13/16"	5/16"	TW-06385-84	1	TW-30805-31	10	—	—
3/8" x 1/4"	PFA	AQ	17/16"	13/16"	9/32"	TW-31320-10	1	—	—	—	—
3/8" x 1/4"	Brass	AR	17/16"	11/16"	1/4"	TW-31412-72	1	—	—	—	—
3/8" x 1/4"	316 SS	AS	17/16"	11/16"	1/4"	TW-31406-66	1	—	—	—	—
3/8" x 1/4"	Parker, 316 SS	AT	17/16"	5/8"	1/4"	TW-30486-40	1	—	—	—	—
3/8" x 3/8"	Nylon	AM	17/32"	13/16"	17/32"	TW-06382-43	10	TW-30803-33	100	—	—
3/8" x 3/8"	White PP	AO	17/32"	13/16"	17/32"	TW-06385-50	10	TW-30815-26	100	—	—
3/8" x 3/8"	Black PP	AN	17/16"	13/16"	1/4"	TW-06444-02	25	—	—	—	—
3/8" x 3/8"	PVDF	AP	17/32"	13/16"	17/32"	TW-06385-85	1	TW-30805-32	10	—	—
3/8" x 3/8"	PFA	AQ	17/16"	13/16"	9/32"	TW-31320-11	1	—	—	—	—
3/8" x 3/8"	Brass	AR	17/16"	7/8"	9/32"	TW-31412-36	1	—	—	—	—
3/8" x 3/8"	316 SS	AS	17/16"	11/16"	9/32"	TW-31406-36	1	—	—	—	—
3/8" x 3/8"	Parker, 316 SS	AT	17/16"	11/16"	1/4"	TW-30486-41	1	—	—	—	—
3/8" x 1/2"	Black PP	AN	13/4"	1"	1/4"	TW-06444-03	25	—	—	—	—
3/8" x 1/2"	PFA	AQ	17/16"	13/16"	9/32"	TW-31321-22	1	—	—	—	—
3/8" x 1/2"	Brass	AR	17/16"	11/16"	1/4"	TW-31412-73	1	—	—	—	—
3/8" x 1/2"	316 SS	AS	17/16"	11/16"	1/4"	TW-31406-67	1	—	—	—	—
3/8" x 1/2"	Parker, 316 SS	AT	17/16"	7/8"	1/4"	TW-30486-42	1	—	—	—	—

Male threaded adapters straight



AM
Nylon



AN
Black PP



AO
White PP



AP
PVDF



AQ
PFA



PTFE Thread Tape

PTFE thread sealer tape prevents leaks and seepage at threads. PTFE tape withstands temperatures from -250 to 500°F (-157 to 260°C).



[LZ-08270-33](#) PTFE thread tape (Plumber's). Roll measures 43 ft L x 1/2"W

[LZ-08270-34](#) PTFE thread tape (Plumber's). Roll measures 43 ft L X 3/4"W

[LZ-08782-45](#) PTFE thread sealer string. Roll of 20 ft x 3/32"W

See next page for more...

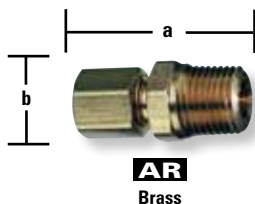
Compression Fittings (continued)

Compression fittings are an excellent choice to connect rigid tubing systems and withstand higher pressures than barbed fittings. Assemble the fitting to the tubing by sliding the tubing through a sealing ferrule and using the nut to compress down to form a secure seal.

Note: Pressure ratings given are for smaller tubing ODs at 77°F (25°C). Ratings decrease with increases in tubing OD or temperature.

For materials descriptions, refer to pages 526–527.

Male threaded adapters straight (continued)



Tubing OD	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
Male threaded adapters (straight), tubing OD x NPT(M)—continued											
1/2" x 1/4"	PFA	AQ	1 3/4"	1 5/16"	3/32"	TW-31321-23	1		—	—	—
1/2" x 1/4"	Brass	AR	1 1/16"	7/8"	3/16"	TW-31412-74	1		—	—	—
1/2" x 1/4"	316 SS	AS	1 1/16"	7/8"	3/16"	TW-31406-68	1		—	—	—
1/2" x 1/4"	Parker, 316 SS	AT	1 1/16"	1 3/16"	3/16"	TW-30486-43	1		—	—	—
1/2" x 3/8"	Nylon	AM	1 5/32"	1 5/16"	3/8"	TW-06382-44	10		TW-30803-34	100	—
1/2" x 3/8"	White PP	AO	1 15/32"	1 5/16"	3/8"	TW-06385-60	10		TW-30815-27	100	—
1/2" x 3/8"	PVDF	AP	1 15/32"	1 5/16"	3/8"	TW-06385-86	1		TW-30805-33	10	—
1/2" x 3/8"	PFA	AQ	1 3/4"	1 5/16"	1 3/32"	TW-31320-12	1		—	—	—
1/2" x 3/8"	Brass	AR	1 1/16"	7/8"	3/8"	TW-31412-75	1		—	—	—
1/2" x 3/8"	316 SS	AS	1 1/16"	7/8"	3/8"	TW-31406-69	1		—	—	—
1/2" x 3/8"	Parker, 316 SS	AT	1 1/16"	1 3/16"	3/8"	TW-30486-44	1		—	—	—
1/2" x 1/2"	Nylon	AM	1 5/8"	1 5/16"	1 5/32"	TW-06382-46	10		TW-30803-35	100	—
1/2" x 1/2"	White PP	AO	1 5/8"	1 5/16"	1 5/32"	TW-06385-70	10		TW-30815-28	100	—
1/2" x 1/2"	Black PP	AN	1 7/8"	1"	3/8"	TW-06444-04	25		—	—	—
1/2" x 1/2"	PVDF	AP	1 5/8"	1 5/16"	1 5/32"	TW-06385-87	1		TW-30805-34	10	—
1/2" x 1/2"	PFA	AQ	1 7/8"	1 5/16"	7/16"	TW-31320-13	1		—	—	—
1/2" x 1/2"	Brass	AR	1 29/32"	7/8"	1 3/32"	TW-31412-38	1		—	—	—
1/2" x 1/2"	316 SS	AS	1 29/32"	7/8"	1 3/32"	TW-31406-38	1		—	—	—
1/2" x 1/2"	Parker, 316 SS	AT	1 11/16"	7/8"	1 3/32"	TW-30486-45	1		—	—	—
1/2" x 3/4"	Black PP	AN	1 29/32"	1"	3/8"	TW-06444-05	25		—	—	—
1/2" x 3/4"	PFA	AQ	1 7/8"	1 3/16"	7/16"	TW-31321-24	1		—	—	—
1/2" x 3/4"	Brass	AR	1 31/32"	7/8"	1 3/32"	TW-31412-76	1		—	—	—
1/2" x 3/4"	316 SS	AS	1 31/32"	7/8"	1 3/32"	TW-31406-70	1		—	—	—
1/2" x 3/4"	Parker, 316 SS	AT	1 23/32"	1 1/16"	1 3/32"	TW-30486-46	1		—	—	—
5/8" x 3/8"	White PP	AO	1 17/32"	1 1/16"	3/8"	TW-06385-72	10		—	—	—
5/8" x 3/8"	PVDF	AP	1 17/32"	1 1/16"	3/8"	TW-06385-88	1		TW-30805-35	10	—
5/8" x 3/8"	Brass	AR	1 23/32"	1"	3/8"	TW-31412-77	1		—	—	—
5/8" x 3/8"	316 SS	AS	1 23/32"	1"	3/8"	TW-31406-71	1		—	—	—
5/8" x 3/8"	Parker, 316 SS	AT	1 23/32"	1 5/16"	3/8"	TW-30486-47	1		—	—	—
5/8" x 1/2"	White PP	AO	1 21/32"	1 1/16"	1 5/32"	TW-06385-74	10		—	—	—
5/8" x 1/2"	Black PP	AN	2"	1 1/8"	1/2"	TW-06444-06	25		—	—	—
5/8" x 1/2"	PVDF	AP	1 21/32"	1 1/16"	1 5/32"	TW-06385-89	1		TW-30805-36	10	—
5/8" x 1/2"	Brass	AR	1 29/32"	1"	1 5/32"	TW-31412-78	1		—	—	—
5/8" x 1/2"	316 SS	AS	1 29/32"	1"	1 5/32"	TW-31406-72	1		—	—	—
5/8" x 1/2"	Parker, 316 SS	AT	1 29/32"	1 5/16"	1 5/32"	TW-30486-48	1		—	—	—
5/8" x 3/4"	Black PP	AN	2"	1 1/8"	1/2"	TW-06444-07	25		—	—	—
3/4" x 1/2"	White PP	AO	1 13/16"	1 1/4"	3/16"	TW-06385-76	10		—	—	—
3/4" x 1/2"	PVDF	AP	1 13/16"	1 1/4"	3/16"	TW-06385-90	1		TW-30805-37	10	—
3/4" x 1/2"	PFA	AQ	2 1/16"	1 3/16"	1 7/32"	TW-31321-25	1		—	—	—
3/4" x 1/2"	Brass	AR	1 31/32"	1 1/8"	1 5/32"	TW-31412-79	1		—	—	—
3/4" x 1/2"	316 SS	AS	1 31/32"	1 1/8"	1 5/32"	TW-31406-73	1		—	—	—
3/4" x 1/2"	Parker, 316 SS	AT	1 31/32"	1 1/8"	1 5/32"	TW-30486-49	1		—	—	—
3/4" x 3/4"	White PP	AO	1 15/16"	1 3/4"	5/8"	TW-06385-78	10		—	—	—
3/4" x 3/4"	PVDF	AP	1 15/16"	1 3/4"	5/8"	TW-06385-91	1		TW-30805-38	10	—
3/4" x 3/4"	PFA	AQ	2 1/16"	1 3/16"	2 1/32"	TW-31321-26	1		—	—	—
3/4" x 3/4"	Brass	AR	1 31/32"	1 1/8"	1 9/32"	TW-31412-80	1		—	—	—
3/4" x 3/4"	316 SS	AS	1 31/32"	1 1/8"	1 9/32"	TW-31406-74	1		—	—	—
3/4" x 3/4"	Parker, 316 SS	AT	1 31/32"	1 1/16"	1 9/32"	TW-30486-50	1		—	—	—

Cole-Parmer PTFE Thread Tape

PTFE thread sealer tape prevents leaks and seepage at threads. PTFE tape withstands temperatures from -250 to 500°F (-157 to 260°C).



LZ-08270-33 PTFE thread tape (Plumber's). Roll measures 43 ft L x 1/2"W

LZ-08270-34 PTFE thread tape (Plumber's). Roll measures 43 ft L x 3/4"W

LZ-08782-45 PTFE thread sealer string. Roll of 20 ft x 3/32"W

Find MORE!

For rigid and other types of tubing, see our "Tubing" section on pages 1823–1859.

Fittings

Compression, Male Threaded Adapter Elbows



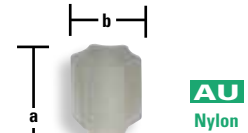
Compression fittings are an excellent choice to connect rigid tubing systems and withstand higher pressures than barbed fittings. Assemble the fitting to the tubing by sliding the tubing through a sealing ferrule and using the nut to compress down to form a secure seal.

Note: Pressure ratings given are for smaller tubing ODs at 77°F (25°C). Ratings decrease with increases in tubing OD or temperature.

For materials descriptions, refer to pages 526–527.

Tubing OD	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
Male threaded adapter elbows, tubing OD x NPT(M)											
1/8" x 1/8"	Nylon	AU	1 1/16"	2 7/32"	3/32"	TW-06382-47	10	—	TW-30803-36	100	—
1/8" x 1/8"	White PP	AW	1 1/16"	2 7/32"	3/32"	TW-06386-05	10	—	TW-30815-33	100	—
1/8" x 1/8"	PVDF	AX	1 1/16"	2 7/32"	3/32"	TW-06386-80	1	—	TW-30805-39	10	—
1/8" x 1/8"	PFA	AY	1 9/16"	1 1/8"	1/16"	TW-31320-14	1	—	—	—	—
1/8" x 1/8"	Brass	AZ	2 9/32"	7/16"	1/16"	TW-31412-81	1	—	—	—	—
1/8" x 1/8"	316 SS	BA	2 9/32"	7/16"	1/16"	TW-31406-75	1	—	—	—	—
1/8" x 1/8"	Parker, 316 SS	BB	2 9/32"	2 9/32"	1/16"	TW-30486-52	1	—	—	—	—
1/8" x 1/4"	PFA	AY	1 7/16"	1 1/8"	1/16"	TW-31320-75	1	—	—	—	—
1/8" x 1/4"	Brass	AZ	3 1/32"	7/16"	1/16"	TW-31412-82	1	—	—	—	—
1/8" x 1/4"	316 SS	BA	3 1/32"	7/16"	1/16"	TW-31406-76	1	—	—	—	—
1/8" x 1/4"	Parker, 316 SS	BB	3 1/32"	3 1/32"	1/16"	TW-30486-53	1	—	—	—	—
1/4" x 1/8"	Nylon	AU	1"	1 1/4"	1/4"	TW-06382-48	10	—	TW-30803-37	100	—
1/4" x 1/8"	White PP	AW	1"	1 1/4"	1/4"	TW-06386-10	10	—	TW-30815-34	100	—
1/4" x 1/8"	Black PP	AV	1 7/16"	1 3/16"	5/32"	TW-06444-20	25	—	—	—	—
1/4" x 1/8"	PVDF	AX	1"	1 1/4"	1/4"	TW-06386-81	1	—	TW-30805-40	10	—
1/4" x 1/8"	PFA	AY	1 1 3/32"	1 3/16"	3/16"	TW-31320-15	1	—	—	—	—
1/4" x 1/8"	Brass	AZ	1 1/32"	9/16"	5/32"	TW-31412-83	1	—	—	—	—
1/4" x 1/8"	316 SS	BA	1 1/32"	9/16"	5/32"	TW-31406-77	1	—	—	—	—
1/4" x 1/8"	Parker, 316 SS	BB	1 1/16"	1 1/16"	5/32"	TW-30486-54	1	—	—	—	—
1/4" x 1/4"	Nylon	AU	1"	1 1/2"	5/32"	TW-06382-49	10	—	TW-30803-38	100	—
1/4" x 1/4"	White PP	AW	1"	1 1/2"	5/32"	TW-06386-20	10	—	TW-30815-35	100	—
1/4" x 1/4"	Black PP	AV	1 7/16"	1 3/8"	5/32"	TW-06444-21	25	—	—	—	—
1/4" x 1/4"	PVDF	AX	1"	1 1/2"	5/32"	TW-06386-82	1	—	TW-30805-41	10	—
1/4" x 1/4"	PFA	AY	1 1/2"	1 3/16"	3/16"	TW-31320-16	1	—	—	—	—
1/4" x 1/4"	Brass	AZ	1 1/32"	1 3/16"	3/16"	TW-31412-84	1	—	—	—	—
1/4" x 1/4"	316 SS	BA	1 1/32"	1 3/16"	3/16"	TW-31406-78	1	—	—	—	—
1/4" x 1/4"	Parker, 316 SS	BB	1 1/16"	1 1/16"	3/16"	TW-30486-55	1	—	—	—	—
1/4" x 3/8"	PVDF	AX	1 3/32"	1 1 3/32"	7/32"	TW-06386-83	1	—	TW-30805-42	10	—
1/4" x 3/8"	PFA	AY	1 3/4"	1 5/16"	3/16"	TW-31321-70	1	—	—	—	—
1/4" x 1/2"	PFA	AY	1 1 1/16"	1 5/16"	3/16"	TW-31321-71	1	—	—	—	—
5/16" x 1/4"	Nylon	AU	1 1/8"	1 7/16"	5/32"	TW-06382-51	10	—	TW-30803-39	100	—
5/16" x 1/4"	White PP	AW	1 1/8"	1 7/16"	5/32"	TW-06386-30	10	—	TW-30815-36	100	—
3/8" x 1/8"	PFA	AY	1 1 1/16"	1 1/2"	3/16"	TW-31320-76	1	—	—	—	—
3/8" x 1/4"	White PP	AW	1 7/32"	1 7/16"	5/16"	TW-06386-40	10	—	TW-30815-37	100	—
3/8" x 1/4"	PVDF	AX	1 1/32"	1 1/16"	5/16"	TW-06386-84	1	—	TW-30805-43	10	—
3/8" x 1/4"	PFA	AY	1 3/4"	1 1/2"	5/32"	TW-31320-17	1	—	—	—	—
3/8" x 1/4"	Brass	AZ	1 3/16"	1 1/16"	1/4"	TW-31412-85	1	—	—	—	—
3/8" x 1/4"	316 SS	BA	1 3/16"	1 1/16"	1/4"	TW-31406-79	1	—	—	—	—
3/8" x 1/4"	Parker, 316 SS	BB	1 3/16"	1 3/16"	1/4"	TW-30486-56	1	—	—	—	—
3/8" x 3/8"	Nylon	AU	1 7/32"	1 1/2"	1 1/32"	TW-06382-53	10	—	TW-30803-44	50	—
3/8" x 3/8"	White PP	AW	1 7/32"	1 1/2"	1 1/32"	TW-06386-50	10	—	TW-30815-38	100	—
3/8" x 3/8"	Black PP	AV	1 2 3/32"	1 9/16"	1/4"	TW-06444-22	25	—	—	—	—
3/8" x 3/8"	PVDF	AX	1 1/32"	1 1/2"	1 1/32"	TW-06386-85	1	—	TW-30805-44	10	—
3/8" x 3/8"	PFA	AY	1 1 9/16"	1 1/2"	5/32"	TW-31320-18	1	—	—	—	—
3/8" x 3/8"	Brass	AZ	1 7/32"	1 1/16"	1/4"	TW-31412-86	1	—	—	—	—
3/8" x 3/8"	316 SS	BA	1 7/32"	1 1/16"	1/4"	TW-31406-80	1	—	—	—	—
3/8" x 3/8"	Parker, 316 SS	BB	1 1/4"	1 1/4"	1/4"	TW-30486-57	1	—	—	—	—
3/8" x 1/2"	Black PP	AV	1 2 1/32"	1 2 3/32"	1/4"	TW-06444-23	25	—	—	—	—
3/8" x 1/2"	PFA	AY	1 2 3/32"	1 1/2"	5/32"	TW-31320-77	1	—	—	—	—
3/8" x 1/2"	Brass	AZ	1 9/32"	1 1/16"	1/4"	TW-31412-87	1	—	—	—	—
3/8" x 1/2"	316 SS	BA	1 9/32"	1 1/16"	1/4"	TW-31406-81	1	—	—	—	—
3/8" x 1/2"	Parker, 316 SS	BB	1 5/16"	1 5/16"	1/4"	TW-30486-58	1	—	—	—	—
1/2" x 1/4"	PFA	AY	1 3/4"	1 1 1/32"	5/32"	TW-31320-78	1	—	—	—	—
1/2" x 3/8"	Nylon	AU	1 7/16"	1 1 9/32"	3/8"	TW-06382-54	10	—	TW-30803-45	50	—
1/2" x 3/8"	White PP	AW	1 7/16"	1 1 9/32"	3/8"	TW-06386-60	10	—	TW-30815-39	100	—

Male threaded adapter elbows



See next page for more...



Fittings

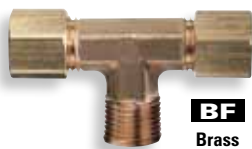
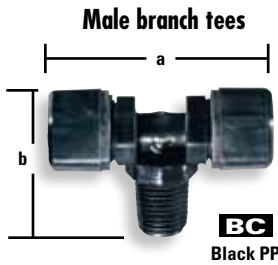
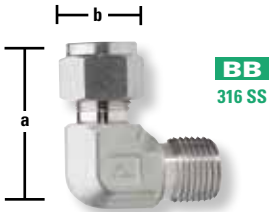
Compression, Male Threaded Adapter Elbows / Branch Tees

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Male threaded adapter elbows (continued)



Compression Fittings (continued)

Compression fittings are an excellent choice to connect rigid tubing systems and withstand higher pressures than barbed fittings. Assemble the fitting to the tubing by sliding the tubing through a sealing ferrule and using the nut to compress down to form a secure seal.

Note: Pressure ratings given are for smaller tubing ODs at 77°F (25°C). Ratings decrease with increases in tubing OD or temperature.

For materials descriptions, refer to pages 526–527.

Tubing OD	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
Male threaded adapter elbows, tubing OD x NPT(M)—continued											
1/2" x 3/8"	PFA	AY	1 13/16"	1 17/32"	7/16"	TW-31320-19	1				
1/2" x 1/2"	Nylon	AU	1 1/16"	1 3/4"	1 5/32"	TW-06382-55	10		TW-30803-46	50	
1/2" x 1/2"	White PP	AW	1 1/16"	1 3/4"	1 5/32"	TW-06386-70	10		TW-30815-40	100	
1/2" x 1/2"	Black PP	AV	2 1/8"	2 29/32"	3/8"	TW-06444-24	25				
1/2" x 1/2"	PVDF	AX	1 1/16"	1 3/4"	1 5/32"	TW-06386-86	1		TW-30805-45	10	
1/2" x 1/2"	PFA	AY	1 7/8"	1 17/32"	7/16"	TW-31320-20	1				
1/2" x 1/2"	Brass	AZ	1 13/32"	7/8"	1 3/32"	TW-31412-88	1				
1/2" x 1/2"	316 SS	BA	1 13/32"	7/8"	1 3/32"	TW-31406-82	1				
1/2" x 1/2"	Parker, 316 SS	BB	1 13/32"	1 13/32"	1 3/32"	TW-30486-59	1				
1/2" x 3/4"	PFA	AY	2 29/32"	2 27/32"	7/16"	TW-31320-79	1				
5/8" x 3/8"	White PP	AW	1 21/32"	1 7/8"	3/8"	TW-06386-72	10				
5/8" x 1/2"	White PP	AW	1 21/32"	2"	1/2"	TW-06386-74	10				
5/8" x 1/2"	Black PP	AV	2 5/16"	2"	1/2"	TW-06444-25	25				
5/8" x 1/2"	PVDF	AX	1 21/32"	2"	1/2"	TW-06386-87	1		TW-30805-46	10	
5/8" x 1/2"	Brass	AZ	1 1/2"	1"	1 5/32"	TW-31412-89	1				
5/8" x 1/2"	316 SS	BA	1 1/2"	1"	1 5/32"	TW-31406-83	1				
5/8" x 1/2"	Parker, 316 SS	BB	1 13/32"	1 13/32"	1 5/32"	TW-30486-60	1				
3/4" x 1/2"	PFA	AY	2 1/4"	1 31/32"	1 7/32"	TW-31320-80	1				
3/4" x 3/4"	PFA	AY	2 11/32"	1 31/32"	2 1/32"	TW-31320-81	1				
3/4" x 3/4"	Brass	AZ	2 11/32"	1 31/32"	2 1/32"	TW-31412-90	1				
3/4" x 3/4"	316 SS	BA	2 11/32"	1 31/32"	2 1/32"	TW-31406-84	1				
3/4" x 3/4"	Parker, 316 SS	BB	2 11/32"	1 31/32"	2 1/32"	TW-31406-81	1				

Male branch tees, tubing OD x NPT(M)											
1/8" x 1/8"	PFA	BE	2 5/16"	1 1/8"	1/16"	TW-31320-34	1				
1/8" x 1/8"	Brass	BF	1 27/32"	7/16"	1/16"	TW-31412-91	1				
1/8" x 1/8"	316 SS	BG	1 27/32"	7/16"	1/16"	TW-31406-85	1				
1/8" x 1/8"	Parker, 316 SS	BH	1 13/16"	7/16"	1/16"	TW-30486-63	1				
1/8" x 1/4"	PFA	BE	2 5/16"	1 1/8"	1/16"	TW-31320-37	1				
1/4" x 1/8"	White PP	BD	1 15/32"	1 1/16"	7/32"	TW-06389-10	10				
1/4" x 1/8"	PFA	BE	2 13/32"	1 7/32"	3/16"	TW-31320-35	1				
1/4" x 1/4"	Black PP	BC	2 3/16"	1 13/32"	5/32"	TW-06444-71	25				
1/4" x 1/4"	PFA	BE	2 13/32"	1 7/32"	3/16"	TW-31320-36	1				
1/4" x 1/4"	Brass	BF	2 3/32"	9/16"	5/32"	TW-31412-92	1				
1/4" x 1/4"	316 SS	BG	2 3/32"	9/16"	5/32"	TW-31406-86	1				
1/4" x 1/4"	Parker, 316 SS	BH	2 1/8"	9/16"	5/32"	TW-30486-64	1				
3/8" x 1/4"	White PP	BD	1 15/16"	1 15/32"	1/4"	TW-06389-40	10				
3/8" x 1/4"	Brass	BF	2 29/32"	1 1/16"	1/4"	TW-31412-93	1				
3/8" x 1/4"	PFA	BE	3"	1 1/2"	9/32"	TW-31320-38	1				
3/8" x 1/4"	316 SS	BG	2 29/32"	1 1/16"	1/4"	TW-31406-87	1				
3/8" x 1/4"	Parker, 316 SS	BH	2 29/32"	9/16"	1/4"	TW-30486-65	1				
3/8" x 3/8"	Black PP	BC	2 5/8"	1 1/2"	1/4"	TW-06444-72	25				
3/8" x 3/8"	PFA	BE	3 1/4"	1 17/32"	1/4"	TW-31321-79	1				
3/8" x 3/8"	Brass	BF	2 19/32"	1 1/16"	1/4"	TW-31412-94	1				
3/8" x 3/8"	316 SS	BG	2 19/32"	1 1/16"	1/4"	TW-31406-88	1				
3/8" x 3/8"	Parker, 316 SS	BH	2 19/32"	1 1/16"	1/4"	TW-30486-66	1				
3/8" x 1/2"	PFA	BE	3"	1 1/2"	9/32"	TW-31320-86	1				
1/2" x 1/4"	PFA	BE	3 1/2"	1 7/16"	9/32"	TW-31321-80	1				
1/2" x 3/8"	PFA	BE	2 15/16"	1 9/16"	1 3/32"	TW-31320-87	1				
1/2" x 1/2"	White PP	BD	2 3/16"	1 13/16"	1 5/32"	TW-06389-70	10				
1/2" x 1/2"	Black PP	BC	2 15/16"	1 15/16"	3/8"	TW-06444-74	25				
1/2" x 1/2"	PFA	BE	3 1/2"	1 5/8"	3/8"	TW-31321-81	1				
1/2" x 1/2"	Brass	BF	2 13/16"	7/8"	1 3/32"	TW-31412-96	1				
1/2" x 1/2"	316 SS	BG	2 13/16"	7/8"	1 3/32"	TW-31406-89	1				
1/2" x 1/2"	Parker, 316 SS	BH	2 13/16"	7/8"	1 3/32"	TW-30486-67	1				
5/8" x 1/2"	White PP	BD	2 17/32"	2 1/32"	1/2"	TW-06389-72	10				
5/8" x 1/2"	Black PP	BC	3 3/8"	2"	1/2"	TW-06444-76	25				
5/8" x 1/2"	Brass	BF	3 1/2"	1"	1 5/32"	TW-31412-97	1				
5/8" x 1/2"	316 SS	BG	3 1/2"	1"	1 5/32"	TW-31406-90	1				
5/8" x 1/2"	Parker, 316 SS	BH	2 27/32"	7/8"	1 5/32"	TW-30486-68	1				
3/4" x 3/4"	316 SS	BG	3 1/8"	1 1/8"	1 5/32"	TW-31406-91	1				
3/4" x 3/4"	Parker, 316 SS	BH	3 3/32"	1 1/16"	1 5/32"	TW-30486-69	1				



Compression fittings are an excellent choice to connect rigid tubing systems and withstand higher pressures than barbed fittings. Assemble the fitting to the tubing by sliding the tubing through a sealing ferrule and using the nut to compress down to form a secure seal.

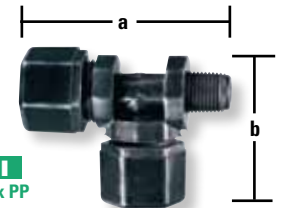
Note: Pressure ratings given are for smaller tubing ODs at 77°F (25°C). Ratings decrease with increases in tubing OD or temperature.

For materials descriptions, refer to pages 526–527.

Tubing OD	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ pk	Price/ pk
Male run tees, tubing OD x NPT(M)											
1/8" x 1/8"	PFA	BK	2 3/8"	1 9/16"	3/32"	TW-31321-72	1	—	—	—	—
1/8" x 1/4"	PFA	BK	2 3/8"	1 9/16"	3/32"	TW-31321-73	1	—	—	—	—
1/4" x 1/4"	PFA	BK	2 3/4"	2 3/32"	3/16"	TW-31321-74	1	—	—	—	—
1/4" x 1/8"	White PP	BJ	1 1/2"	1 1/32"	7/32"	TW-06388-10	10	—	—	—	—
1/4" x 1/8"	Black PP	BI	2"	1 7/16"	5/32"	TW-06444-80	25	—	—	—	—
1/4" x 1/4"	PFA	BK	2 3/4"	2 3/32"	3/16"	TW-31321-75	1	—	—	—	—
1/4" x 1/4"	White PP	BJ	1 1 1/16"	1 1/32"	7/32"	TW-06388-20	10	—	—	—	—
3/8" x 1/4"	White PP	BJ	2 1/32"	1 3/8"	1 1/32"	TW-06388-40	10	—	—	—	—
3/8" x 1/4"	Black PP	BI	2 1/2"	1 23/32"	1/4"	TW-06444-82	25	—	—	—	—
3/8" x 1/4"	PFA	BK	2 3/4"	2 1/8"	1/4"	TW-31321-76	1	—	—	—	—
1/2" x 1/4"	PFA	BK	2 13/16"	2 3/32"	9/32"	TW-31321-77	1	—	—	—	—
1/2" x 3/8"	Black PP	BI	2 3/4"	1 31/32"	3/8"	TW-06444-84	25	—	—	—	—
1/2" x 1/2"	White PP	BJ	2 13/32"	1 19/32"	15/32"	TW-06388-70	10	—	—	—	—
1/2" x 1/2"	PFA	BK	2 15/16"	2 3/32"	3/8"	TW-31321-78	1	—	—	—	—
5/8" x 1/2"	White PP	BJ	2 23/32"	1 13/16"	19/32"	TW-06388-72	10	—	—	—	—
5/8" x 1/2"	Black PP	BI	3 3/16"	2 1/4"	1/2"	TW-06444-85	25	—	—	—	—
3/4" x 3/4"	PFA	BK	3 3/16"	2 1/16"	2 1/32"	TW-31320-39	1	—	—	—	—
Female threaded adapters (straight), tubing OD x NPT(F)											
1/8" x 1/8"	PFA	BP	1 3/4"	5/8"	1/16"	TW-31320-50	1	—	—	—	—
1/8" x 1/4"	PFA	BP	1 3/4"	3/4"	1/16"	TW-31320-51	1	—	—	—	—
1/4" x 1/8"	White PP	BN	1 5/8"	25/32"	7/32"	TW-06384-10	10	TW-30815-52	100	—	—
1/4" x 1/8"	Black PP	BM	1 9/16"	1 1/16"	9/32"	TW-06444-10	25	—	—	—	—
1/4" x 1/8"	PVDF	BO	1 5/8"	25/32"	7/32"	TW-06384-71	1	TW-30805-47	10	—	—
1/4" x 1/8"	PFA	BP	1 25/32"	5/8"	3/16"	TW-31320-52	1	—	—	—	—
1/4" x 1/8"	Nylon	BL	1 3/16"	25/32"	7/32"	TW-06382-57	10	TW-30803-48	100	—	—
1/4" x 1/4"	Nylon	BL	1 3/16"	25/32"	7/32"	TW-06382-56	10	TW-30803-47	100	—	—
1/4" x 1/4"	White PP	BN	1 3/32"	25/32"	7/32"	TW-06384-20	10	TW-30815-53	100	—	—
1/4" x 1/4"	Black PP	BM	1 13/32"	1 1/16"	9/32"	TW-06444-11	25	—	—	—	—
1/4" x 1/4"	PVDF	BO	1 3/32"	25/32"	7/32"	TW-06384-72	1	TW-30805-48	10	—	—
1/4" x 1/4"	PFA	BP	1 25/32"	3/4"	3/16"	TW-31320-53	1	—	—	—	—
1/4" x 3/8"	PFA	BP	1 25/32"	15/16"	3/16"	TW-31320-70	1	—	—	—	—
1/4" x 1/2"	PFA	BP	1 25/32"	1 1/8"	3/16"	TW-31320-71	1	—	—	—	—
5/16" x 1/4"	Nylon	BL	1 1/8"	1 1/16"	9/32"	TW-06382-58	10	TW-30803-49	100	—	—
5/16" x 1/4"	White PP	BN	1 1/8"	1 1/16"	9/32"	TW-06384-30	10	TW-30815-54	100	—	—
5/16" x 1/4"	PVDF	BO	1 1/8"	1 1/16"	9/32"	TW-06384-73	1	TW-30805-49	10	—	—
3/8" x 1/4"	Nylon	BL	1 3/16"	1 3/16"	1 1/32"	TW-06382-59	10	TW-30803-50	100	—	—
3/8" x 1/4"	White PP	BN	1 3/16"	1 3/16"	1 1/32"	TW-06384-40	10	TW-30815-55	100	—	—
3/8" x 1/4"	PVDF	BO	1 3/16"	1 3/16"	1 1/32"	TW-06384-74	1	TW-30805-50	10	—	—
3/8" x 1/4"	PFA	BP	1 7/8"	1 3/16"	9/32"	TW-31320-54	1	—	—	—	—
3/8" x 3/8"	White PP	BN	1 3/16"	1 5/16"	1 1/32"	TW-06384-50	10	TW-30815-56	100	—	—
3/8" x 3/8"	Black PP	BM	1 9/16"	1 1/8"	1/4"	TW-06444-12	25	—	—	—	—
3/8" x 3/8"	PVDF	BO	1 3/16"	1 5/16"	1 1/32"	TW-06384-75	1	TW-30805-51	10	—	—
3/8" x 3/8"	PFA	BP	1 7/8"	1 5/16"	9/32"	TW-31320-55	1	—	—	—	—
3/8" x 1/2"	PFA	BP	1 7/8"	1 1/8"	9/32"	TW-31320-56	1	—	—	—	—
1/2" x 1/4"	PFA	BP	1 27/32"	1 5/16"	1 1/32"	TW-31320-72	1	—	—	—	—
1/2" x 3/8"	White PP	BN	1 7/32"	1 5/16"	1 5/32"	TW-06384-60	10	TW-30815-57	100	—	—
1/2" x 3/8"	Nylon	BL	1 1 1/16"	1 1/8"	1/4"	TW-06382-62	25	—	—	—	—
1/2" x 3/8"	Black PP	BM	1 1 1/16"	1 1/8"	1/4"	TW-06444-13	25	—	—	—	—
1/2" x 3/8"	PVDF	BO	1 7/32"	1 5/16"	1 5/32"	TW-06384-76	1	TW-30805-52	10	—	—
1/2" x 3/8"	PFA	BP	1 27/32"	1 5/16"	7/16"	TW-31320-57	1	—	—	—	—
1/2" x 1/2"	PFA	BP	1 27/32"	1 1/8"	7/16"	TW-31320-58	1	—	—	—	—
1/2" x 3/4"	PFA	BP	2"	1 3/16"	7/16"	TW-31320-73	1	—	—	—	—
3/4" x 1/2"	PFA	BP	2 3/8"	1 7/16"	5/8"	TW-31321-82	1	—	—	—	—
3/4" x 3/4"	PFA	BP	2 1/16"	1 3/16"	1 1/16"	TW-31320-74	1	—	—	—	—

*Note: Similar in appearance to standard male branch tees.

Male run tees



BI
Black PP

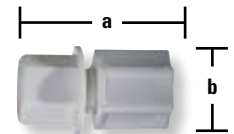


BJ
White PP



BK
PFA

Female threaded adapters (straight)



BL
Nylon



BM
Black PP



BN
White PP



BO
PVDF



BP
PFA

See next page for more...



Fittings

Compression, Female Threaded Adapter Elbows / Accessories

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Female threaded adapter elbows



BQ
White PP

Compression Fittings (continued)

Tubing OD	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
Female pipe adapter elbows, tubing OD x NPT(F)											
1/8" x 1/4"	White PP	BQ	1 1/32"	1 1/16"	1/8"	TW-06387-05	10		—	—	—
1/4" x 1/8"		BQ	1 3/32"	1 1/16"	1/4"	TW-06387-10	10		—	—	—
1/4" x 1/4"		BQ	1 5/32"	1 9/32"	1/4"	TW-06387-20	10		—	—	—
5/16" x 1/4"		BQ	1 5/16"	1 11/32"	9/16"	TW-06387-30	10		—	—	—
3/8" x 1/4"		BQ	1 9/32"	1 7/16"	3/8"	TW-06387-40	10		—	—	—
1/2" x 3/8"		BQ	1 1/2"	1 13/32"	1/2"	TW-06387-60	10		—	—	—
1/2" x 1/2"	PFA	BQ	1 9/16"	1 13/16"	1/2"	TW-06387-62	10		—	—	—
5/8" x 1/2"		BQ	1 15/16"	1 5/8"	5/8"	TW-06387-64	10		—	—	—
3/8" x 3/8"		—	2"	1 1/2"	1/4"	TW-31321-83	1		—	—	—
1/2" x 1/2"		—	2 5/16"	1 25/32"	3/8"	TW-31321-84	1		—	—	—

Find MORE!

For a selection of heat guns, see page 752. For PFA tubing, see the rigid tubing section starting on page 1848.

Compression nut assemblies



A White PP



B PVDF



C PFA



D Brass



E 316 SS

Ferrule plug



F PFA

Inserts for soft tubing



G White PP



H Black PP

Accessories (for Compression Fittings on pages 526–536)

Use these high-pressure compression nut assemblies ("C") with PFA fittings to achieve pressures to 225 psi without the use of a grooving tool.

Key	Catalog number	Material	Tubing OD	Qty/pk	Price/pk
Compression nut assemblies (include ferrules)					
A	TW-06380-05	White PP	1/8"	10	
	TW-06380-11		1/4"	10	
	TW-06380-21		3/8"	10	
	TW-06380-31		1/2"	10	
	TW-06380-41		3/4"	10	
B	TW-06380-60	PVDF	1/8"	1	
	TW-06380-61		1/4"	1	
	TW-06380-65		1/2"	1	
C	TW-31321-85	PFA	1/8"	1	
	TW-31321-86		1/4"	1	
	TW-31321-87		3/8"	1	
	TW-31321-88		1/2"	1	
	TW-31321-89		3/4"	1	
D	TW-31212-68	Brass	1/16"	10	
	TW-31212-69		1/8"	10	
	TW-31212-70		1/4"	10	
	TW-31212-71		3/8"	10	
	TW-31212-67		1/2"	10	
E	TW-31212-67	316 SS	1/16"	1	
	TW-31212-66		1/8"	1	
	TW-31212-65		1/4"	1	
	TW-31212-64		3/8"	1	
	TW-31212-63		1/2"	1	

Key	Catalog number	Material	Tubing OD	Qty/pk	Price/pk
Ferrule plugs					
F	TW-31320-45	PFA	1/8"	1	
	TW-31320-46		1/4"	1	
	TW-31320-47		3/8"	1	
	TW-31320-48		1/2"	1	
	TW-31320-49		3/4"	1	
Inserts for soft tubing (tubing OD x ID)					
G	TW-06391-10	White PP	1/4" x 5/32"	10	
	TW-06391-20		5/16" x 3/16"	10	
	TW-06391-30		3/8" x 1/4"	10	
	TW-06391-40		1/2" x 3/8"	10	
H	TW-06444-91	Black PP	1/4" x 1/8"	25	
	TW-06444-92		3/8" x 1/4"	25	
	TW-06444-94		1/2" x 3/8"	25	
	TW-06444-96		3/8" x 1/2"	25	

MORE online!

For complete directions on flare fittings, see ColeParmer.co.uk and search for "flared fittings." Go to . . . ColeParmer.com



Threaded Fittings

Sturdy threaded fittings are designed for permanent installation. Use with our rigid tubing for your high-pressure applications. Order tubing separately on pages 1823–1859.

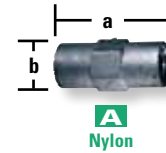
Brass. Good chemical resistance. Temp range: –85 to 482°F (–65 to 250°C).

High-density polyethylene (HDPE). Very good chemical resistance. Rated at 150 psi at 77°F (25°C). Temp range: –65 to 190°F (–53 to 87°C). Sterilize by ethylene oxide only.

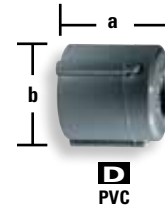
PVDF. Excellent chemical resistance. Rated at 200 psi at 77°F (25°C). Temp range: –79 to 275°F (–62 to 135°C). Sterilize by ethylene oxide or autoclave.

continued on page 538

Straight couplings



Female reducers



Thread size	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ pk	Price/ pk
Straight couplings, NPT(F)											
1/8"	Nylon	A	13/16"	1/2"	1/8"	TW-06349-00	6		—	—	—
1/8"	PFA	B	15/16"	5/8"	1/4"	TW-06546-00	1		—	—	—
1/8"	316 SS	C	13/16"	9/16"	1/32"	TW-31410-00	1		—	—	—
1/4"	Nylon	A	111/32"	5/8"	3/16"	TW-06349-01	6		—	—	—
1/4"	PFA	B	15/8"	3/4"	1/32"	TW-06546-01	1		—	—	—
1/4"	316 SS	C	15/16"	3/4"	7/16"	TW-31410-01	1		—	—	—
3/8"	Nylon	A	123/32"	29/32"	1/4"	TW-06349-02	6		—	—	—
3/8"	PFA	B	15/8"	19/16"	7/16"	TW-06546-02	1		—	—	—
3/8"	316 SS	C	15/16"	7/8"	9/16"	TW-31410-02	1		—	—	—
1/2"	Nylon	A	21/16"	19/16"	3/8"	TW-06349-03	6		—	—	—
1/2"	PFA	B	15/8"	11/8"	9/16"	TW-06546-03	1		—	—	—
1/2"	316 SS	C	19/16"	11/16"	23/32"	TW-31410-03	1		—	—	—
3/4"	Nylon	A	29/16"	13/8"	5/8"	TW-06349-04	6		—	—	—
3/4"	PFA	B	15/8"	17/16"	3/4"	TW-06546-04	1		—	—	—
3/4"	316 SS	C	15/8"	15/16"	15/16"	TW-31410-04	1		—	—	—
1"	316 SS	C	2	13/8"	15/32"	TW-31410-05	1		—	—	—

Female reducers, NPT(F) x NPT(F)

1/4" x 1/8"	PVC	D	7/8"	7/8"	11/32"	TW-06349-91	6		—	—	—
1/4" x 1/8"	316 SS	E	17/32"	3/4"	11/32"	TW-31211-10	1		—	—	—
3/8" x 1/4"	PVC	D	15/8"	15/16"	15/32"	TW-06349-92	6		—	—	—
3/8" x 1/4"	316 SS	E	13/8"	7/8"	7/16"	TW-31410-12	1		—	—	—
1/2" x 1/8"	316 SS	E	19/16"	11/16"	11/32"	TW-31410-13	1		—	—	—
1/2" x 1/4"	PVC	D	15/16"	13/32"	7/16"	TW-06349-93	6		—	—	—
1/2" x 1/4"	316 SS	E	13/4"	11/16"	7/16"	TW-31410-14	1		—	—	—
1/2" x 3/8"	PVC	D	11/2"	19/16"	9/16"	TW-06349-94	6		—	—	—
1/2" x 3/8"	316 SS	E	125/32"	11/16"	19/32"	TW-31410-15	1		—	—	—
3/4" x 1/4"	316 SS	E	113/16"	19/16"	7/16"	TW-31410-16	1		—	—	—
3/4" x 1/2"	PVC	D	121/32"	11/32"	5/8"	TW-06349-95	6		—	—	—
1" x 1/2"	316 SS	E	23/16"	13/8"	23/32"	TW-31410-18	1		—	—	—
1" x 3/4"	316 SS	E	21/4"	13/8"	15/16"	TW-31410-19	1		—	—	—

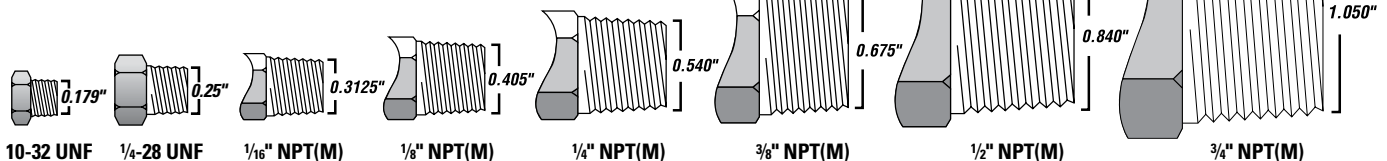
TECHNICAL info!

Pipe Thread Sizes

Originally, pipes were specified with a standardized outside diameter (OD) and wall thickness so the nominal pipe size would approximately equal the inside diameter (ID). Because this relationship between the OD, wall thickness, and nominal pipe size no longer holds true, NPT (National Pipe Taper) and UNF (Unified Fine Thread) inch scales are different from the standard English inch scale. The drawings below illustrate this difference—if you are uncertain about the fitting size you require, compare your existing fittings to the drawings below.

Size	Threads per inch	
	NPT	BSP
1/8"	27	28
1/4"	18	19
3/8"	18	19
1/2"	14	14
3/4"	14	14

Cole-Parmer also offers BSP (British Standard Pipe) fittings for connecting systems that use both NPT and BSP thread configurations. See the table at left for a comparison of these two thread styles.



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Threaded Fittings (continued from page 537)

Female-to-male elbows



Linear low-density polyethylene (LLDPE). Very good chemical resistance.
Temp range: -65 to 150°F (-54 to 66°C). Sterilize by ethylene oxide only.

Polypropylene (PP). Very good chemical resistance. Rated at 200 psi at 77°F (25°C).
Temp range: 0 to 275°F (-17 to 135°C). Sterilize by ethylene oxide or gamma.

Nylon. Good chemical resistance. Rated at 200 psi at 77°F (25°C).
Temp range: -40 to 200°F (-40 to 93°C). Sterilize by ethylene oxide only.

Union elbows



Threaded size	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ pk	Price/ pk

Female-to-male elbows, NPT(F) x NPT(M)

1/8"	Nylon	F	1 1/32"	1"	3/16"	TW-06349-40	6		—	—	—
1/8"	PFA	G	1 9/16"	1 1/8"	3/16"	TW-06546-12	1		—	—	—
1/4"	Nylon	F	1 3/16"	1 9/32"	9/32"	TW-06349-41	6		—	—	—
1/4"	PFA	G	1 5/8"	1 7/32"	1 1/32"	TW-06546-13	1		—	—	—
3/8"	Nylon	F	1 19/32"	1 5/8"	3/8"	TW-06349-42	6		—	—	—
3/8"	PFA	G	1 3/4"	1 13/32"	13/32"	TW-06546-14	1		—	—	—
1/2"	Nylon	F	1 15/16"	1 23/32"	13/32"	TW-06349-43	6		—	—	—
1/2"	PFA	G	1 13/16"	1 11/16"	1/2"	TW-06546-15	1		—	—	—
3/4"	PFA	G	2 1/2"	2 9/32"	2 9/32"	TW-06546-16	1		—	—	—

Union elbows, NPT(F)

1/8"	Nylon	H	2 9/32"	2 9/32"	3/16"	TW-06349-60	6		—	—	—
1/8"	PFA	I	1 1/32"	1/4"	1/4"	TW-06546-32	1		—	—	—
1/4"	Nylon	H	1 5/32"	1 5/32"	7/32"	TW-06349-61	6		—	—	—
1/4"	PFA	I	1 1/4"	1 1/4"	1 1/32"	TW-06546-33	1		—	—	—
3/8"	Nylon	H	1 13/32"	1 13/32"	1/4"	TW-06349-62	6		—	—	—
3/8"	PFA	I	1 15/32"	1 15/32"	7/16"	TW-06546-34	1		—	—	—
1/2"	Nylon	H	1 7/8"	1 7/8"	1 1/32"	TW-06349-63	6		—	—	—
1/2"	PFA	I	1 11/16"	1 11/16"	9/16"	TW-06546-35	1		—	—	—
3/4"	Nylon	H	2 3/8"	2 3/8"	1 9/32"	TW-06349-64	6		—	—	—
3/4"	PFA	I	2 1/8"	2 1/8"	3/4"	TW-06546-36	1		—	—	—

Nipples, NPT(M)

10-32 UNF	Nylon	K	3/8"	1/4"	1/16"	TW-31502-10	25		TW-31901-44	250
10-32 UNF	PP	L	3/8"	1/4"	1/16"	TW-31503-10	25		TW-30506-62	250
10-32 UNF	PVDF	M	3/32"	5/16"	3/32"	—	—	—	TW-30804-95	100
1/8"	HDPE	J	1"	7/16"	3/16"	TW-30623-24	10		TW-30627-24	100
1/8"	Nylon	K	1"	7/16"	3/16"	TW-30623-25	6		TW-30627-25	60
1/8"	PP	L	1 3/32"	1 7/32"	1/4"	TW-40610-90	10		TW-40640-90	100
1/8"	PVDF	M	1 3/32"	1 7/32"	1/4"	TW-30706-00	10		—	—
1/8"	PFA	N	1 13/32"	1 1/2"	3/16"	TW-06546-22	1		—	—
1/8"	316 SS	O	1"	7/16"	3/16"	TW-31410-40	1		—	—
1/4"	HDPE	J	1 15/32"	1 13/32"	1 1/32"	TW-30623-26	10		TW-30627-26	100
1/4"	Nylon	K	1 15/32"	1 13/32"	1 1/32"	TW-30623-27	10		TW-30627-27	100
1/4"	PP	L	1 15/32"	1 13/32"	1 1/32"	TW-40610-91	10		TW-40640-91	100
1/4"	PVDF	M	1 15/32"	1 13/32"	1 1/32"	TW-30706-01	10		—	—
1/4"	PFA	N	1 13/32"	5/8"	9/32"	TW-06546-24	1		—	—
1/4"	316 SS	O	1 13/32"	9/16"	9/32"	TW-31410-41	1		—	—
3/8"	HDPE	J	1 1/2"	1 3/16"	1 5/32"	TW-30623-28	10		TW-30627-28	100
3/8"	Nylon	K	1 1/2"	1 3/16"	1 5/32"	TW-30623-29	6		TW-30627-29	60
3/8"	PP	L	1 1/2"	1 3/16"	1 5/32"	TW-40610-92	10		TW-40640-92	100
3/8"	PVDF	M	1 1/2"	1 3/16"	1 5/32"	TW-30706-02	10		—	—
3/8"	PFA	N	1 13/32"	1 3/16"	1 5/32"	TW-06546-26	1		—	—
3/8"	316 SS	O	1 1/16"	1 1/16"	3/8"	TW-31410-42	1		—	—
1/2"	HDPE	J	1 7/8"	1 11/32"	1 9/32"	TW-30623-31	10		TW-30627-31	100
1/2"	Nylon	K	1 7/8"	1 11/32"	1 9/32"	TW-30629-02	6		TW-30629-03	60
1/2"	PP	L	1 7/8"	1 11/32"	1 9/32"	TW-40610-93	10		TW-40640-93	100
1/2"	PVDF	M	1 7/8"	1 11/32"	1 9/32"	TW-30706-03	10		—	—
1/2"	PFA	N	1 13/32"	1 5/16"	1/2"	TW-06546-29	1		—	—
1/2"	316 SS	O	1 27/32"	7/8"	1 5/32"	TW-31410-43	1		—	—
3/4"	HDPE	J	1 7/8"	2 9/32"	1 3/16"	TW-30623-20	10		TW-30627-20	100
3/4"	Nylon	K	1 29/32"	1 5/16"	1 3/16"	TW-30623-21	6		TW-30627-21	60
3/4"	PP	L	1 7/8"	2 9/32"	1 3/16"	TW-40610-94	5		TW-40640-94	50
3/4"	PVDF	M	1 7/8"	2 9/32"	1 3/16"	TW-30706-04	5		—	—
3/4"	PFA	N	1 21/32"	1 4/16"	2 1/32"	TW-06546-31	1		—	—
3/4"	316 SS	O	1 27/32"	1 1/16"	5/8"	TW-31410-44	1		—	—
1"	HDPE	J	2 9/32"	1 19/32"	1 1/32"	TW-30623-22	10		TW-30627-22	100
1"	Nylon	K	2 9/32"	1 19/32"	1 1/32"	TW-30623-23	10		TW-30627-23	100
1"	PP	L	2 9/32"	1 19/32"	1 1/32"	TW-40610-95	5		TW-40640-95	50
1"	PVDF	M	2 9/32"	1 19/32"	1 1/32"	TW-30706-05	5		—	—
1"	316 SS	O	1 1/16"	1 3/8"	7/8"	TW-31410-44	1		—	—

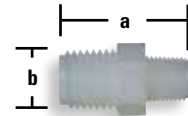




Sturdy, threaded fittings are designed for permanent installation. Use with our rigid tubing for your high-pressure applications. Order tubing separately on pages 1823–1859.

For material descriptions, refer to pages 537–538.

Male reducers



P HDPE



Q Nylon



R PP



S PVDF



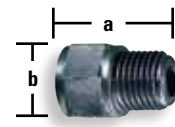
T PFA



U 316 SS

Threaded size	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ pk	Price/ pk
Male reducers, NPT(M) x NPT(M)											
1/4" x 1/8"	HDPE	P	1 1/32"	1 1/32"	1/4"	TW-30623-32	10	—	TW-30627-32	100	—
1/4" x 1/8"	Nylon	Q	1 1/32"	1 1/32"	1/4"	TW-30623-34	6	—	TW-30627-34	60	—
1/4" x 1/8"	PP	R	1 1/32"	1 1/32"	1/4"	TW-40623-35	10	—	TW-40627-35	100	—
1/4" x 1/8"	PVDF	S	1 1/32"	1 1/32"	1/4"	TW-30623-33	10	—	TW-30627-33	50	—
1/4" x 1/8"	PFA	T	1 1/32"	9/16"	3/16"	TW-06546-23	1	—	—	—	—
1/4" x 1/8"	316 SS	U	1 1/16"	9/16"	3/16"	TW-31410-50	1	—	—	—	—
3/8" x 1/8"	HDPE	P	1 1/32"	9/16"	1/4"	TW-30623-36	10	—	TW-30627-36	100	—
3/8" x 1/8"	Nylon	Q	1 1/32"	9/16"	1/4"	TW-30623-38	6	—	TW-30627-38	60	—
3/8" x 1/8"	PP	R	1 1/32"	9/16"	1/4"	TW-40623-39	10	—	TW-40627-39	100	—
3/8" x 1/8"	PVDF	S	1 1/32"	9/16"	1/4"	TW-30623-37	10	—	TW-30627-37	50	—
3/8" x 1/8"	316 SS	U	1 1/4"	1 1/16"	3/16"	TW-31410-51	1	—	—	—	—
3/8" x 1/4"	HDPE	P	1 1/32"	9/16"	1/32"	TW-30623-40	10	—	TW-30627-40	100	—
3/8" x 1/4"	Nylon	Q	1 1/32"	9/16"	1/32"	TW-30623-42	6	—	TW-30627-42	60	—
3/8" x 1/4"	PP	R	1 1/32"	9/16"	1/32"	TW-40623-43	10	—	TW-40627-43	100	—
3/8" x 1/4"	PVDF	S	1 1/32"	9/16"	1/32"	TW-30623-41	10	—	TW-30627-41	50	—
3/8" x 1/4"	316 SS	U	1 1/16"	1 1/16"	9/32"	TW-31410-52	1	—	—	—	—
1/2" x 1/8"	HDPE	P	1 1/32"	1 1/16"	1/4"	TW-30623-44	10	—	TW-30627-44	100	—
1/2" x 1/8"	Nylon	Q	1 1/32"	1 1/16"	1/4"	TW-30623-46	6	—	TW-30627-46	60	—
1/2" x 1/8"	PP	R	1 1/32"	1 1/16"	1/4"	TW-40623-47	10	—	TW-40627-47	100	—
1/2" x 1/8"	PVDF	S	1 1/32"	1 1/16"	1/4"	TW-30623-45	10	—	TW-30627-45	50	—
1/2" x 1/4"	HDPE	P	1 21/32"	1 1/16"	1/32"	TW-30623-48	10	—	TW-30627-48	100	—
1/2" x 1/4"	Nylon	Q	1 21/32"	1 1/16"	1/32"	TW-30623-50	6	—	TW-30627-50	60	—
1/2" x 1/4"	PP	R	1 21/32"	1 1/16"	1/32"	TW-40623-51	10	—	TW-40627-51	100	—
1/2" x 1/4"	PVDF	S	1 21/32"	1 1/16"	1/32"	TW-30623-49	10	—	TW-30627-49	50	—
1/2" x 1/4"	PFA	T	1 13/32"	1 3/16"	9/32"	TW-06546-27	1	—	—	—	—
1/2" x 3/8"	HDPE	P	1 21/32"	1 1/16"	1/32"	TW-30623-52	10	—	TW-30627-52	100	—
1/2" x 3/8"	Nylon	Q	1 21/32"	1 1/16"	1/32"	TW-30623-54	6	—	TW-30627-54	60	—
1/2" x 3/8"	PP	R	1 21/32"	1 1/16"	1/32"	TW-40623-55	10	—	—	—	—
1/2" x 3/8"	PVDF	S	1 21/32"	1 1/16"	1/32"	TW-30623-53	10	—	TW-30627-53	50	—
1/2" x 3/8"	PFA	T	1 13/32"	1 3/16"	9/32"	TW-06546-28	1	—	—	—	—
1/2" x 3/8"	316 SS	U	1 21/32"	7/8"	3/8"	TW-31410-55	1	—	—	—	—
3/4" x 3/8"	Nylon	Q	1 3/8"	1 1/8"	1/32"	TW-06349-86	6	—	TW-31902-00	60	—
3/4" x 1/2"	HDPE	P	1 1/2"	1 1/8"	9/16"	TW-31701-89	10	—	TW-31701-88	100	—
3/4" x 1/2"	Nylon	Q	1 1/2"	1 1/8"	9/16"	TW-06349-87	6	—	—	—	—
3/4" x 1/2"	PFA	T	1 5/8"	1 1/16"	1/2"	TW-06546-30	1	—	—	—	—
3/4" x 1/2"	316 SS	U	1 27/32"	1 1/16"	1/32"	TW-31410-56	1	—	—	—	—

**Reducing bushings
NTP(M) x NTP(F)**



V
Nylon



W PFA

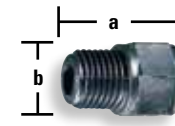


X Brass



Y 316 SS

**Reducing bushings
NTP(M) x UNF(F)**



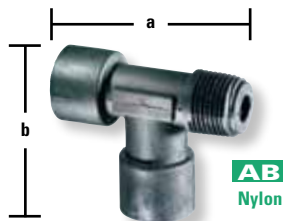
Z
Nylon



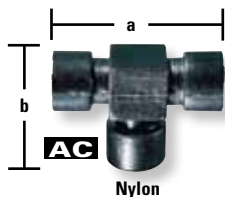
AA
PP

See next page for more...

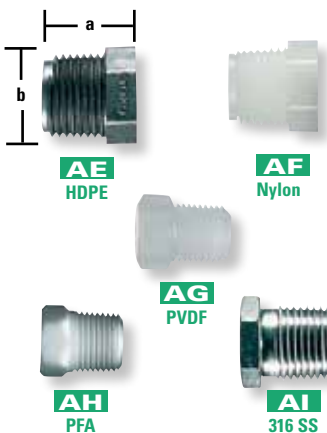
Right-angle tees



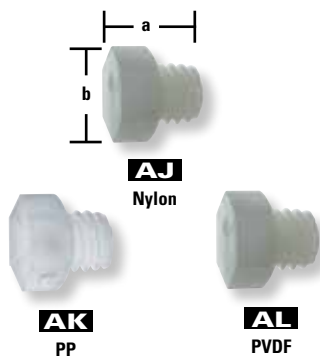
Tees



Pipe plugs, NPT(M)



Pipe plugs, UNF(M)



Threaded Fittings (continued)

Sturdy, threaded fittings are designed for permanent installation. Use with our rigid tubing for your high-pressure applications. Order tubing separately on pages 1823–1859. For material descriptions, refer to pages 537–538.

Thread size	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
Reducing bushings, NPT(M) X NPT(F)—continued											
3/4" x 1/8"	Nylon	V	27/32"	1 1/8"	9/32"	TW-06349-36	6		—	—	—
3/4" x 1/4"	Nylon	V	27/32"	1 1/8"	15/32"	TW-06349-37	6		—	—	—
3/4" x 3/8"	Nylon	V	27/32"	1 1/8"	11/16"	TW-06349-38	6		—	—	—
3/4" x 1/2"	Nylon	V	27/32"	1 1/8"	9/32"	TW-06349-35	6		—	—	—
3/4" x 1/2"	PFA	W	1 1/8"	1 1/16"	9/16"	TW-06546-10	1		—	—	—
3/4" x 1/2"	PFA	W	1 17/32"	1 3/16"	9/16"	TW-06546-11	1		—	—	—
1" x 3/4"	Nylon	Y	1 5/16"	1 3/8"	1"	TW-06349-39	6		—	—	—
Reducing bushings, NPT(M) X UNF(F)											
1/8" x 1/4-28	Nylon	Z	1 9/32"	1 5/32"	7/32"	TW-31502-21	25		—	—	—
1/8" x 1/4-28	PP	AA	1 9/32"	1 5/32"	7/32"	TW-31503-21	25		—	—	—
1/8" x 10-32	Nylon	Z	1 9/32"	1 5/32"	5/32"	TW-31502-20	25		—	—	—
1/8" x 10-32	PP	AA	1 9/32"	1 5/32"	5/32"	TW-31503-20	25		—	—	—
1/4" x 1/4-28	Nylon	Z	2 3/32"	1 7/32"	7/32"	TW-31502-23	25		—	—	—
1/4" x 1/4-28	PP	AA	2 3/32"	1 7/32"	7/32"	TW-31503-23	25		—	—	—
1/4" x 10-32	Nylon	Z	2 3/32"	1 7/32"	5/32"	TW-31502-22	25		—	—	—
1/4" x 10-32	PP	AA	2 3/32"	1 7/32"	5/32"	TW-31503-22	25		—	—	—
Right-angle tees, NPT(F) x NPT(F) x NPT(M)											
1/8" x 1/8" x 1/8"	Nylon	AB	1 19/32"	1"	3/32"	TW-06349-20	6		—	—	—
3/8" x 3/8" x 3/8"	Nylon	AB	2 1/16"	1 3/4"	9/32"	TW-06349-22	6		—	—	—
Tees, NPT(F)											
1/8"	Nylon	AC	1 15/32"	1"	1/8"	TW-06349-50	6		—	—	—
1/8"	PFA	AD	1 11/16"	1 5/32"	1/4"	TW-06546-17	1		—	—	—
1/4"	Nylon	AC	1 3/4"	1 1/4"	3/16"	TW-06349-51	6		—	—	—
1/4"	PFA	AD	1 7/8"	1 5/16"	1 1/32"	TW-06546-18	1		—	—	—
3/8"	Nylon	AC	2 1/8"	1 23/32"	1/4"	TW-06349-52	6		—	—	—
3/8"	PFA	AD	2 1/4"	1 3/8"	7/16"	TW-06546-19	1		—	—	—
1/2"	Nylon	AC	2 3/4"	1 15/16"	3/8"	TW-06349-53	6		—	—	—
1/2"	PFA	AD	2 1/2"	1 7/8"	9/16"	TW-06546-20	1		—	—	—
3/4"	Nylon	AC	3 1/4"	2 1/2"	1/2"	TW-06349-54	6		—	—	—
3/4"	PFA	AD	2 3/4"	2 3/32"	3/4"	TW-06546-21	1		—	—	—
Pipe plugs, NPT(M)											
1/16"	PVDF	AG	1 7/32"	3/8"	—	TW-30706-20	10		—	—	—
1/8"	HDPE	AE	5/8"	7/16"	—	TW-31701-90	10		TW-31701-92	100	—
1/8"	Nylon	AF	5/8"	7/16"	—	TW-31701-91	10		—	—	—
1/8"	PVDF	AG	5/8"	1 1/32"	—	TW-30706-21	10		—	—	—
1/8"	316 SS	AI	3/4"	7/16"	—	TW-31411-05	1		—	—	—
1/8"	PFA	AH	2 7/32"	1 1/2"	—	TW-06546-37	1		—	—	—
1/4"	HDPE	AE	2 3/32"	9/16"	—	TW-30401-43	10		TW-30401-45	100	—
1/4"	Nylon	AF	2 3/32"	9/16"	—	TW-30401-42	10		TW-30401-44	100	—
1/4"	PFA	AH	2 7/32"	5/8"	—	TW-06546-38	1		—	—	—
1/4"	316 SS	AI	3 1/32"	9/16"	—	TW-31411-06	1		—	—	—
3/8"	HDPE	AE	2 3/32"	1 1/16"	—	TW-30401-51	10		TW-30401-53	100	—
3/8"	Nylon	AF	2 3/32"	1 1/16"	—	TW-30401-50	10		TW-30401-52	100	—
3/8"	PFA	AH	2 7/32"	1 3/16"	—	TW-06546-39	1		—	—	—
3/8"	316 SS	AI	1"	1 1/16"	—	TW-31408-07	1		—	—	—
1/2"	HDPE	AE	2 7/32"	7/8"	—	TW-30401-39	10		TW-30401-41	100	—
1/2"	Nylon	AF	2 7/32"	7/8"	—	TW-30401-38	10		TW-30401-40	100	—
1/2"	PFA	AH	2 7/32"	1 5/16"	—	TW-06546-40	1		—	—	—
1/2"	316 SS	AI	1 7/32"	7/8"	—	TW-31408-08	1		—	—	—
3/4"	HDPE	AE	2 7/32"	1 1/8"	—	TW-30401-47	10		TW-30401-49	100	—
3/4"	Nylon	AF	2 7/32"	1 1/8"	—	TW-30401-46	10		TW-30401-48	100	—
3/4"	PFA	AH	1"	1 3/16"	—	TW-06546-41	1		—	—	—
3/4"	316 SS	AI	1 7/32"	1 1/16"	—	TW-31411-09	1		—	—	—
1"	316 SS	AI	1 1/2"	1 3/8"	—	TW-31411-10	1		—	—	—
1"	Nylon	AF	1"	1 3/8"	—	TW-30401-36	10		TW-30401-37	100	—
Pipe plugs, UNF(M)											
10-32	Nylon	AJ	9/32"	1/4"	—	TW-31502-30	25		—	—	—
10-32	PP	AK	9/32"	1/4"	—	TW-31503-30	25		TW-30506-63	250	—
10-32	PVDF	AL	1/4"	1 5/16"	—	TW-30706-30	10		—	—	—
1/4-28	PVDF	AL	3/8"	3/8"	—	TW-30706-31	10		—	—	—

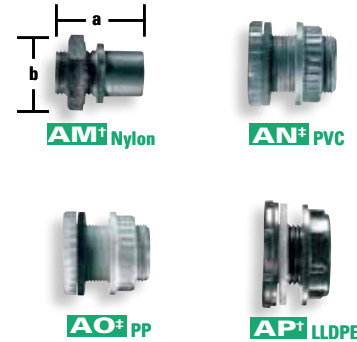


Threaded Fittings (continued)

Sturdy, threaded fittings are designed for permanent installation. Use with our rigid tubing for your high-pressure applications. Order tubing separately on pages 1823–1859.

For material descriptions, refer to pages 537–538.

Bulkhead connectors

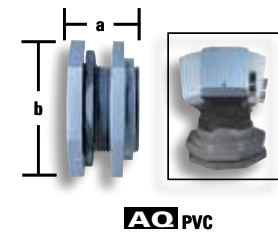


Thread size	Material	Key	Dimensions			Standard packs			Bulk packs		
			a	b	Orifice	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ pk	Price/ pk
Bulkhead connectors, NPT(F) x OD**											
1/8" x 5/8"	Nylon	AM	1 1/32"	1 1/4"	3/16"	TW-06349-10	6		—	—	—
1/4" x 3/4"			1 1/4"	1 1/8"	7/16"	TW-06349-11	6		—	—	—
3/8" x 7/8"			1 3/4"	1 1/8"	1/4"	TW-06349-12	6		—	—	—
1/4" x 2 7/32"	PVC	AN	1 3/8"	1 1/4"	7/16"	TW-06445-10	1		—	—	—
1/2" x 1 3/8"			2 7/32"	2 9/32"	1 1/16"	TW-06445-21	1		—	—	—
3/4" x 1 5/8"			2 3/4"	2 1/2"	2 9/32"	TW-06445-31	1		—	—	—
1" x 1 7/8"	PVC	AN	2 13/16"	2 5/32"	1 1/8"	TW-06445-41	1		—	—	—
1 1/2" x 2 3/8"			3 1/8"	3 27/32"	1 11/16"	TW-06445-71	1		—	—	—
2" x 3 1/2"			3 9/16"	5"	2 3/16"	TW-06445-81	1		—	—	—
1/2" x 1 3/8"	PP	AO	2 3/4"	2"	1 3/8"	TW-06447-21	1		—	—	—
3/4" x 1 5/8"			2 1/8"	2 3/8"	1 5/8"	TW-06447-31	1		—	—	—
1" x 1 7/8"			2 1/8"	2 9/16"	1 7/8"	TW-06447-41	1		—	—	—
1 1/2" x 2 3/8"			3"	3"	2 3/8"	TW-06447-71	1		—	—	—
2" x 3 1/2"			3 3/4"	4 3/8"	3 1/4"	TW-06447-81	1		—	—	—
3/4" x 1 11/16"	LLDPE	AP	1 3/8"	1 11/16"	1"	TW-06924-50	1		—	—	—
1" x 2 5/8"			1 3/4"	3 3/8"	1 9/16"	TW-06924-51	1		—	—	—
1 1/4" x 2 3/8"			1 3/4"	3 3/8"	1 9/16"	TW-06924-52	1		—	—	—
1 1/2" x 2 5/8"	LLDPE	AP	1 3/4"	3 5/8"	1 13/16"	TW-06924-53	1		—	—	—
2" x 3 1/4"			1 7/8"	3 3/4"	2 1/4"	TW-06924-54	1		—	—	—
3" x 4 3/8"			2 1/16"	4 3/8"	3 5/8"	TW-06924-55	1		—	—	—
Swivel bulkhead connectors, NPT(F)											
1"	PVC	AQ	2 9/16"	4 3/8"	2 1/8"	TW-31800-00	1		—	—	—
2"			2 1/2"	6"	2 1/4"	TW-31800-10	1		—	—	—
3"			3 1/4"	8 3/4"	3 5/8"	TW-31800-20	1		—	—	—

**Nylon fittings have no gaskets; PVC and PP fittings have neoprene gaskets; LLDPE fittings have EPDM gaskets; PVDF fittings have Viton® gaskets.

*NPT(F) thread throughout.
*NPT(F) thread on one side only.

Swivel bulkhead connectors



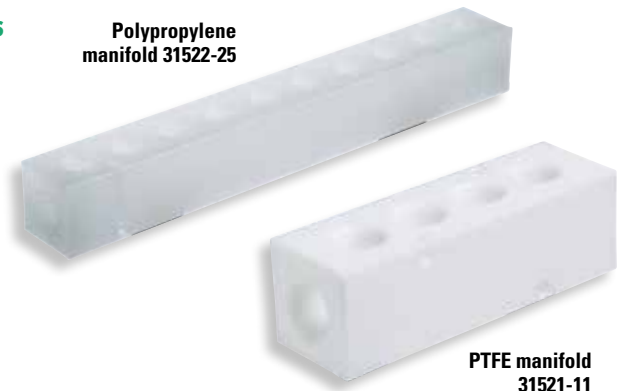
Thermoplastic NPT(F) Manifolds

Come in a variety of configurations—two, four, six, eight, or ten outlets

Specifications

Material	Maximum pressure	Temperature range
Nylon	200 psi	-60 to 180°F (-54 to 82°C)
Polypropylene	150 psi	32 to 210°F (0 to 99°C)
PTFE	120 psi	-200 to 300°F (-129 to 150°C)
PVDF	150 psi	-65 to 230°F (54 to 110°C)

Polypropylene manifold 31522-25



PTFE manifold 31521-11

MORE info!

Manifolds are also available in acetal, 304 stainless steel, and brass. Contact your local dealer.

No. of outlets	Inlet NPT(F)	Outlet NPT(F)	Mounting hole	Dimension (L x W x H)	Nylon		Polypropylene		PTFE		PVDF	
					Catalog number	Price	Catalog number	Price	Catalog number	Price	Catalog number	Price
2	1/4"	1/8"	0.17"	1 3/4" x 1" x 1"	TW-31522-31		TW-31522-01		TW-31521-01		TW-31523-31	
2	3/8"	1/4"	0.20"	2 3/8" x 1 1/4" x 1 1/4"	TW-31522-33		TW-31522-03		TW-31521-03		TW-31523-33	
2	1/2"	3/8"	0.20"	2 3/4" x 1 1/2" x 1 1/2"	TW-31522-35		TW-31522-05		TW-31521-05		TW-31523-35	
4	1/4"	1/8"	0.17"	3 1/4" x 1" x 1"	TW-31522-37		TW-31522-07		TW-31521-07		TW-31523-37	
4	3/8"	1/4"	0.20"	4 1/8" x 1 1/4" x 1 1/4"	TW-31522-39		TW-31522-09		TW-31521-09		TW-31523-39	
4	1/2"	3/8"	0.20"	4 3/4" x 1 1/2" x 1 1/2"	TW-31522-41		TW-31522-11		TW-31521-11		TW-31523-41	
6	1/4"	1/8"	0.17"	4 3/4" x 1" x 1"	TW-31522-43		TW-31522-13		TW-31521-13		TW-31523-43	
6	3/8"	1/4"	0.20"	5 7/8" x 1 1/4" x 1 1/4"	TW-31522-45		TW-31522-15		TW-31521-15		TW-31523-45	
6	1/2"	3/8"	0.20"	6 3/4" x 1 1/2" x 1 1/2"	TW-31522-47		TW-31522-17		TW-31521-17		TW-31523-47	
8	1/4"	1/8"	0.17"	6 1/4" x 1" x 1"	TW-31522-49		TW-31522-19		TW-31521-19		TW-31523-49	
8	3/8"	1/4"	0.20"	7 5/8" x 1 1/4" x 1 1/4"	TW-31522-51		TW-31522-21		TW-31521-21		TW-31523-51	
8	1/2"	3/8"	0.20"	8 3/4" x 1 1/2" x 1 1/2"	TW-31522-53		TW-31522-23		TW-31521-23		TW-31523-53	
10	1/4"	1/8"	0.17"	7 3/4" x 1" x 1"	TW-31522-55		TW-31522-25		TW-31521-25		TW-31523-55	
10	3/8"	1/4"	0.20"	9 3/8" x 1 1/4" x 1 1/4"	TW-31522-57		TW-31522-27		TW-31521-27		TW-31523-57	
10	1/2"	3/8"	0.20"	10 3/4" x 1 1/2" x 1 1/2"	TW-31522-59		TW-31522-29		TW-31521-29		TW-31523-59	

Cole-Parmer Premium Luer Fittings

Full material traceability to ensure process integrity

- Manufactured from 100% virgin raw materials in a Class 100,000 environment

These luer fittings are ideal for a variety of applications that use syringes or small tubing. Barbed adapters feature three styles of barbs: standard, wide-bore, and low-profile. Wide-bore barbs offer enhanced fluid flow through the fitting and are usable with any flexible tubing. Low-profile barbs are ideal for use with semi-rigid tubing, such as nylon, polyethylene, or polypropylene. Manufactured in compliance with ISO 594-1 standards, these fittings are cleaned, inspected, and fully traceable. All parts meet tight dimensional tolerances for increased reliability and process purity. Choose from a range of sizes, 1/16" to 1/4", with a variety of connection options. **Sold in packs of 25.** (Also available in packs of 100; contact Cole-Parmer for details).

FREE certificate of compliance is available for all fittings on this page. **See page 509.**



Key	Description	Polypropylene		Polycarbonate		Nylon		PVDF	
		Catalog number	Price/pk	Catalog number	Price/pk	Catalog number	Price/pk	Catalog number	Price/pk
Female luer x standard hose barb adapters									
A	Female luer x 1/16" hose barb	TW-45508-00		TW-45501-00		TW-45502-00		TW-45512-00	
	Female luer x 3/32" hose barb	TW-45508-02		TW-45501-02		TW-45502-02		TW-45512-02	
	Female luer x 1/8" hose barb	TW-30800-08		TW-45501-04		TW-45502-04		TW-45512-04	
	Female luer x 3/32" hose barb	TW-45508-06		TW-45501-06		TW-45502-06		TW-45512-06	
	Female luer x 3/16" hose barb	TW-45508-08		TW-45501-08		TW-45502-08		TW-45512-08	
	Female luer x 1/4" hose barb	TW-30800-06		TW-45501-20		TW-45502-20		—	—
Female luer x hose barb adapters (smooth bore)									
B	Female luer x 1/16" hose barb	TW-45508-50		TW-45501-50		TW-45502-50		—	—
	Female luer x 3/32" hose barb	TW-45508-52		TW-45501-52		TW-45502-52		—	—
	Female luer x 1/8" hose barb	TW-45508-54		TW-45501-54		TW-45502-54		—	—
Female luer x hose barb adapters (wide bore)									
C	Female luer x 1/16" hose barb	TW-45508-01		TW-45501-01		TW-45502-01		—	—
	Female luer x 3/32" hose barb	TW-45508-03		TW-45501-03		TW-45502-03		—	—
	Female luer x 1/8" hose barb	TW-30800-02		TW-45501-05		TW-45502-05		—	—
Female luer x hose barb adapters (low-profile barb)									
D	Female luer x 1/16" hose barb	TW-45508-12		TW-45501-12		TW-45502-12		—	—
	Female luer x 3/32" hose barb	TW-45508-14		—	—	TW-45502-14		TW-45512-14	
	Female luer x 1/8" hose barb	TW-45508-16		TW-45501-16		TW-45502-16		TW-45512-16	
	Female luer x 0.17" hose barb	TW-45508-18		—	—	TW-45502-18		TW-45512-18	
Female luer x thread adapters									
E	Female luer x 10-32 special tapered thread	TW-45508-70		TW-45501-70		TW-45502-70		—	—
	Female luer x 10-32 UNF thread	TW-45508-60		TW-45501-60		TW-45502-60		—	—
	Female luer x 1/4-28 UNF thread	TW-45508-66		TW-45501-66		TW-45502-66		TW-45512-66	
	Female luer x 1/4-28 UNF bottom sealing thread	TW-45508-76		—	—	TW-45505-76		TW-45513-76	
	Female luer x 1/8-27 NPT thread	TW-30800-00		—	—	TW-45505-78		TW-45513-78	
	Female luer x 1/8-27 NPT thread elbow	TW-45508-80		—	—	TW-45505-80		TW-45513-80	
Female luer bulkhead x hose barb adapters									
G	Female luer x 1/4-28 UNF thread to 1/16" hose barb	TW-45508-30		TW-45501-30		TW-45502-30		TW-45512-30	
	Female luer x 1/4-28 UNF thread to 3/32" hose barb	TW-45508-32		TW-45501-32		TW-45502-32		TW-45512-32	
	Female luer x 1/4-28 UNF thread to 1/8" hose barb	TW-45508-34		TW-45501-34		TW-45502-34		TW-45512-34	
Female adapters									
H	Female luer x female luer	TW-45508-22		TW-45501-22		TW-45502-22		TW-45512-22	
I	Female tee	TW-45508-56		TW-45501-56		TW-45502-56		—	—
J	Female elbow	TW-45508-26		TW-45501-26		TW-45502-26		TW-45512-26	
K	Female luer x cap	TW-30800-12		TW-45501-28		TW-45502-28		TW-45512-28	
L	Female luer x cap with tether loop	TW-45508-64		TW-45501-64		TW-45502-64		TW-45512-64	
Male x female adapters									
M	Male luer x female luer coupler	TW-45508-82		TW-45501-82		TW-45502-82		TW-45512-82	
N	Male luer with lock ring x female luer coupler	TW-45508-80		TW-45501-80		TW-45502-80		—	—
O	Male luer x female luer elbow	TW-45508-84		TW-45501-84		TW-45502-84		—	—
P	Male x female x female tee	TW-45508-85		TW-45501-85		TW-45502-85		—	—
Q	Male x male x female tee	TW-45508-75		TW-45501-75		TW-45502-75		—	—



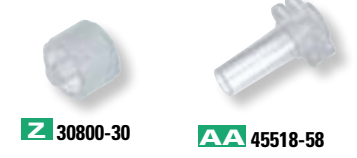
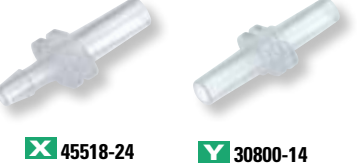
Polypropylene (PP). Manufactured of animal-free natural polypropylene. Meets USP Class VI specifications. Very good chemical resistance. Max temperature 190°F (87°C). Sterilize by ethylene oxide and gamma irradiation (not recommended for autoclaving).

Polycarbonate (PC). Good chemical resistance. Max temperature 273°F (133°C). Sterilize by ethylene oxide and gamma (not recommended for autoclaving).

Nylon. Good chemical resistance. Max temperature 455°F (235°C). Sterilize by autoclave, ethylene oxide or gamma irradiation.

PVDF. Excellent chemical resistance. Animal-derived ingredient free. Max temperature 244°F (117°C). Sterilize by autoclave, ethylene oxide, or gamma irradiation.

Key	Description	Polypropylene		Polycarbonate		Nylon		PVDF	
		Catalog number	Price/pk	Catalog number	Price/pk	Catalog number	Price/pk	Catalog number	Price/pk
Male luer lock x standard hose barb adapters									
R	Male luer lock x 1/16" hose barb	TW-45518-00		TW-45504-00		TW-45505-00		TW-45513-00	
	Male luer lock x 3/32" hose barb	TW-45518-02		TW-45504-02		TW-45505-02		TW-45513-02	
	Male luer lock x 1/8" hose barb	TW-30800-24		TW-45504-04		TW-45505-04		TW-45513-09	
	Male luer lock x 3/16" hose barb	TW-45518-06		TW-45504-06		TW-45505-06		TW-45513-06	
	Male luer lock x 1/4" hose barb	TW-45518-08		TW-45504-08		TW-45505-08		TW-45513-08	
	Male luer lock x 1/4" hose barb	TW-30800-22		TW-45504-19		TW-45505-19		—	—
Male luer lock x hose barb adapters (wide bore)									
S	Male luer x 1/16" hose barb (wide bore)	TW-30800-16		—	—	TW-45505-31		—	—
	Male luer x 3/32" hose barb (wide bore)	—	—	—	—	TW-45505-32		—	—
	Male luer x 1/8" hose barb (wide bore)	TW-30800-18		—	—	TW-45505-33		—	—
Male luer lock x hose barb adapters (low-profile barb)									
T	Male luer x 1/16" hose barb	TW-45518-07		TW-45504-07		TW-45505-07		—	—
	Male luer x 3/32" hose barb	TW-30800-28		—	—	TW-45505-09		TW-45513-09	
	Male luer x 1/8" hose barb	TW-45518-11		TW-45504-11		TW-45505-11		TW-45513-11	
	Male luer x 0.17" hose barb	TW-45518-13		TW-45504-13		TW-45505-13		—	—
Male luer x hose barb adapters (for use with separate rotating lock ring "W")									
U	Male luer x 1/16" hose barb	TW-45518-40		TW-45504-40		TW-45505-40		—	—
	Male luer x 3/32" hose barb	TW-45518-42		TW-45504-42		TW-45505-42		—	—
	Male luer x 1/8" hose barb	TW-45518-44		TW-45504-44		TW-45505-44		—	—
	Male luer x 3/16" hose barb	TW-45518-46		TW-45504-46		TW-45505-46		—	—
	Male luer x 1/4" hose barb	TW-45518-48		TW-45504-48		TW-45505-48		—	—
	Male luer x 1/4" hose barb	TW-45518-50		TW-45504-50		TW-45505-50		—	—
Male luer x hose barb adapters (wide-bore), (for use with separate rotating lock ring "W")									
V	Male luer x 1/16" hose barb	TW-45518-41		TW-45504-41		TW-45505-41		—	—
	Male luer x 3/32" hose barb	TW-45518-43		—	—	—	—	—	—
	Male luer x 1/8" hose barb	TW-45518-45		TW-45504-45		TW-45505-45		—	—
W	Snap luer lock ring	TW-45518-74		TW-45504-74		TW-45505-74		—	—
Male slip luer x hose barb adapters (no lock ring)									
X	Male luer x 1/16" hose barb	TW-45518-22		TW-45504-22		TW-45505-22		TW-45513-22	
	Male luer x 3/32" hose barb	TW-45518-24		TW-45504-24		TW-45505-24		TW-45513-24	
	Male luer x 1/8" hose barb	TW-45518-26		TW-45504-26		TW-45505-26		TW-45513-26	
	Male luer x 3/16" hose barb	TW-45518-28		TW-45504-28		TW-45505-28		TW-45513-28	
	Male luer x 1/4" hose barb	TW-45518-52		TW-45504-52		TW-45505-52		—	—
	Male luer x 1/4" hose barb	TW-45518-54		TW-45504-54		TW-45505-54		—	—
Male adapters									
Y	Male luer x male luer	TW-30800-14		TW-45504-72		TW-45505-72		TW-45513-72	
Z	Male luer lock plug	TW-30800-30		TW-45504-56		TW-45505-56		TW-45513-56	
AA	Male luer plug	TW-45518-58		TW-45504-58		TW-45505-58		—	—
AB	Male luer plug with tether loop	TW-45518-70		TW-45504-70		TW-45505-70		—	—
AC	Male luer with lock ring and 3/16" hex to 1/4-28 UNF	TW-45518-81		—	—	—	—	TW-45513-81	
Male luer with integral lock ring x thread adapters									
AD	Male luer x 1/4-28 UNF thread	TW-45518-82		TW-45504-82		TW-45505-82		TW-45513-82	
AE	Male luer x 10-32 special tapered thread	TW-45518-84		TW-45504-84		TW-45505-84		—	—
AF	Male luer x 1/16" hex x 1/8-27 NPT thread	TW-45518-86		—	—	TW-45505-86		TW-45513-86	
AG	Male luer x 3/16" hex x 1/4-18 NPT thread	TW-45518-88		—	—	TW-45505-88		—	—



TW-45509-00 Panel-mount lock ring, black nylon. Pack of 25
TW-45509-02 Panel-mount ring, black nylon. Pack of 25
TW-45509-04 Panel-mount lock nut; 1/4-28 UNF, black nylon. Pack of 25

CrystalVu™ Luer Fittings

NEW



Available in 6 colors for quick and easy identification: berry, rose, yellow, lime, violet, and orange. Made of polyolefin, a transparent polycarbonate alternative containing no bisphenol-A (BPA). Superior chemical resistance compared to polycarbonate. Sterilize by autoclave, gamma irradiation, or ethylene oxide. Meets USP Class VI. Animal-derived ingredient-free. **Packs of 25.**

Color	Description	Catalog number	Price/pk
Berry	Male luer lock x 1/16" hose barb	TW-45520-01	
	Male luer lock x 3/32" hose barb	TW-45520-02	
	Male luer lock x 1/8" hose barb	TW-45520-03	
	Male luer lock x 5/32" hose barb	TW-45520-04	
	Male luer lock x 3/16" hose barb	TW-45520-05	
	Male luer lock x 1/4" hose barb	TW-45520-06	
Rose	Male luer lock x 1/16" hose barb	TW-45520-11	
	Male luer lock x 3/32" hose barb	TW-45520-12	
	Male luer lock x 1/8" hose barb	TW-45520-13	
	Male luer lock x 5/32" hose barb	TW-45520-14	
	Male luer lock x 3/16" hose barb	TW-45520-15	
	Male luer lock x 1/4" hose barb	TW-45520-16	
Yellow	Male luer lock x 1/16" hose barb	TW-45520-21	
	Male luer lock x 3/32" hose barb	TW-45520-22	
	Male luer lock x 1/8" hose barb	TW-45520-23	
	Male luer lock x 5/32" hose barb	TW-45520-24	
	Male luer lock x 3/16" hose barb	TW-45520-25	
	Male luer lock x 1/4" hose barb	TW-45520-26	
Lime	Male luer lock x 1/16" hose barb	TW-45520-31	
	Male luer lock x 3/32" hose barb	TW-45520-32	
	Male luer lock x 1/8" hose barb	TW-45520-33	
	Male luer lock x 5/32" hose barb	TW-45520-34	
	Male luer lock x 3/16" hose barb	TW-45520-35	
	Male luer lock x 1/4" hose barb	TW-45520-36	
Violet	Male luer lock x 1/16" hose barb	TW-45520-41	
	Male luer lock x 3/32" hose barb	TW-45520-42	
	Male luer lock x 1/8" hose barb	TW-45520-43	
	Male luer lock x 5/32" hose barb	TW-45520-44	
	Male luer lock x 3/16" hose barb	TW-45520-45	
	Male luer lock x 1/4" hose barb	TW-45520-46	
Orange	Male luer lock x 1/16" hose barb	TW-45520-51	
	Male luer lock x 3/32" hose barb	TW-45520-52	
	Male luer lock x 1/8" hose barb	TW-45520-53	
	Male luer lock x 5/32" hose barb	TW-45520-54	
	Male luer lock x 3/16" hose barb	TW-45520-55	
	Male luer lock x 1/4" hose barb	TW-45520-56	

Chemical Compatibility



See if your materials fit your application—use our reference pages, web site, or smartphone App!

Cole-Parmer®
Delivering Solutions You Trust

PVC Tubing with Luer Ends

Tubing has luer fittings at each end—choose male/male or male/female fitting combinations in 24" or 48" lengths. Rated at 500 psi (34.5 bar) injection pressure; measures 0.065" ID (0.125" OD). Choose from packs of five or 20. Sterilize by ETO.



Length	Fitting ends	Pack of 5		Pack of 20	
		Catalog number	Price	Catalog number	Price
24	61.0	M/F	TW-30600-60		TW-30600-65
48	122.0	M/F	TW-30600-61		TW-30600-66
24	61.0	M/M	TW-30600-62		TW-30600-67
48	122.0	M/M	TW-30600-63		TW-30600-68



Speciality Plastic Luer Fittings

Luer fittings are the standard connection type for syringes. Their size and quick-release connection make them perfect for many applications with small tubing as well as syringes. These specialized luer fittings and adapters help build a complete fluid handling system.

Key	Catalog number	Description	Material	Qty/pk	Price/pk
A	TW-31200-50	Female luer lock x 1/2" mini sanitary adapter	PP	1	
	TW-31201-50	Female luer lock x 1/2" mini sanitary adapter	PVDF	1	
B	TW-06471-91	Female luer x 1/4-28 UNF thread	ETFE	1	
C	TW-06391-95	Female luer [†] x 1/16" OD tubing compression	PTFE	1	
D	TW-30600-32	Female luer x male luer lock, check valve	PC	10	
E	TW-06464-95	Female luer x male lock, rotating	PC	1	
F	TW-30505-70	Male luer elbow x 1/8" ID tubing barb	PP	10	
	TW-30505-71	Male luer elbow x 1/8" ID tubing barb	PC	10	
G	TW-06471-90	Male luer x 1/4-28 UNF thread	ETFE	1	
	TW-30505-54	Male luer x 1/4-28 UNF thread	PP	10	
	TW-30505-55	Male luer x 1/4-28 UNF thread	PC	10	
	TW-30505-65	Male luer x 10-32 UNF thread	PC	10	
	TW-30505-64	Male luer x 10-32 UNF thread	PP	10	
H	TW-06471-85	Male luer lock [‡] x 1/4-28 UNF thread	ETFE	1	
I	TW-06391-90	Male luer x 1/16" OD tubing compression	PTFE	1	
J	TW-06464-90	Male luer lock x male luer lock, rotating	PC	1	

[†]Use with male luer only, not with male luer lock. [‡]Has PP locking nut.



Cole-Parmer Large-Bore Slip-Fit Adapters

Larger bore for enhanced fluid flow

These large-bore adapters are perfect for handling higher flow volumes in process while using connections similar to luer systems. Adapters are manufactured in an ISO Class 8 (formerly Class 100,000) environment, are inspected to be free of contaminants, and are fully lot traceable.

Note: These are not compatible with standard luer fittings.

Specifications

Body material	Polycarbonate (PC)	Radiation-stable PC	Nylon
Max temp	266°F (130°C)	252°F (122°C)	194°F (90°C)
Sterilization	Gamma, ETO	Gamma, ETO	Gamma, ETO, autoclave

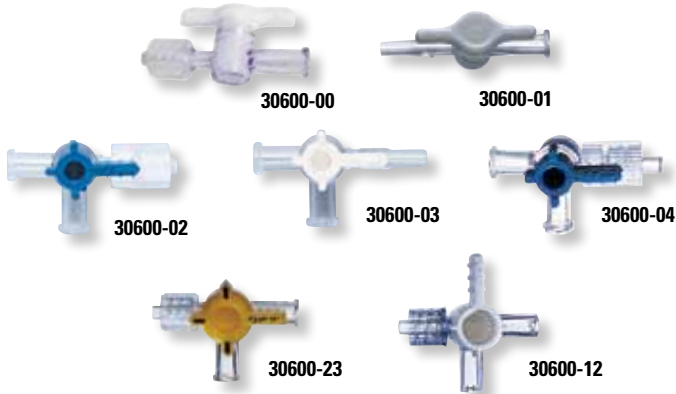


FREE certificate of compliance is available for these slip-fit adapters. **See page 509.**

Key	Description	Polycarbonate (PC)		Radiation-stable PC		Nylon	
		Catalog number	Price/pk of 25	Catalog number	Price/pk of 25	Catalog number	Price/pk of 25
A	Male large bore to 3/16" hose barb	TW-45509-50	—	—	—	TW-45509-70	—
B	Male large bore to 1/4" hose barb	TW-45509-52	—	—	—	TW-45509-72	—
C	Male large bore to 3/8" hose barb	TW-45509-54	—	—	—	TW-45509-74	—
D	Male large bore with lock ring to male luer	—	—	TW-45509-90	—	—	—
E	Male large bore with lock ring to female luer	—	—	TW-45509-91	—	—	—
F	Male large bore connector plug	TW-45509-64	—	—	—	TW-45509-84	—
G	Female large bore to 3/16" hose barb	TW-45509-56	—	—	—	TW-45509-76	—
H	Female large bore to 1/4" hose barb	TW-45509-58	—	—	—	TW-45509-78	—
I	Female large bore to 3/8" hose barb	TW-45509-60	—	—	—	TW-45509-80	—
J	Female large bore connector cap	TW-45509-62	—	—	—	TW-45509-82	—

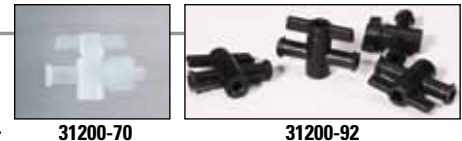
Plastic Luer Stopcocks and Manifolds

Build leakproof fluid handling systems



PVDF Stopcocks

PVDF body with polypropylene insert.



Catalog number	Type	Description	Qty/pk	Price/pk
Natural PVDF with polypropylene insert				
TW-31200-70	2-way	Female luer lock	1	
TW-31200-80	3-way	Female luer lock	1	
Black PVDF				
TW-31200-90	1-way	Male luer lock x male luer lock	10	
TW-31200-91	1-way	Male luer lock x female luer	10	
TW-31200-92	1-way	Female luer x female luer	10	

High-Pressure Polycarbonate Stopcocks

Pressure rating up to 1050 psi.

Catalog number	Type	Description	Price/pk of 10
TW-30526-32	2-way	Male luer lock x female luer	
TW-30526-34	3-way	Female luer (2) x male luer lock	



Polycarbonate Manifolds

Manifolds have polyurethane stems, HDPE handles, and female ports.

Ports	Rotation	Individual manifolds		Pack of 10	
		Catalog number	Price	Catalog number	Price
2	180°	TW-06464-81		TW-30600-44	
3	360°	TW-06464-83		TW-30600-41	
4	180°	TW-06464-85		TW-30600-42	
5	360°	TW-06464-87		TW-30600-43	

Polycarbonate Stopcocks

HDPE handles rotate 360° on one-way stopcocks, 180° on three-way stopcocks, and 360° on four-way stopcocks.

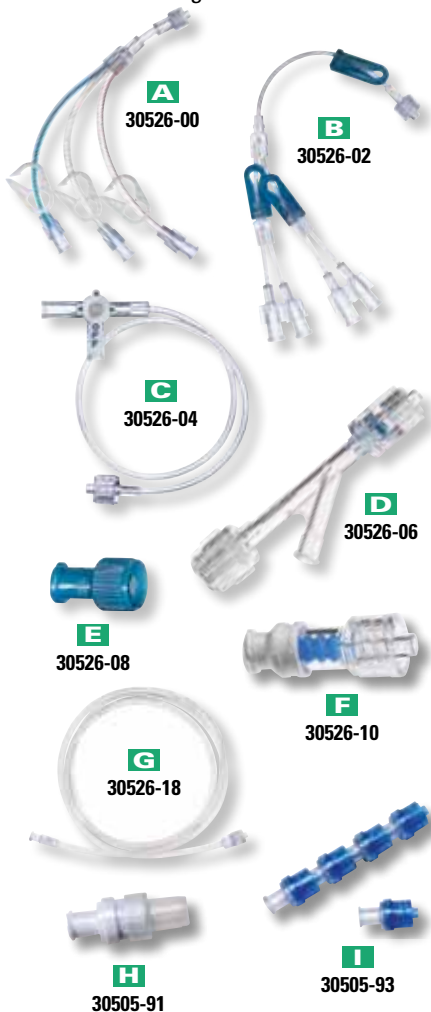
Type	Description	Pack of 10		Pack of 100	
		Catalog number	Price	Catalog number	Price
Standard stopcocks					
1-way	Male lock	TW-30600-00		TW-30600-05	
1-way	Male luer	TW-30600-01		TW-30600-06	
3-way	Male lock	TW-30600-02†		TW-30600-07	
4-way	Male luer	TW-30600-03		TW-30600-08	
4-way	Male lock	TW-30600-04		TW-30600-09	
Large-bore stopcocks					
3-way	Male lock	TW-30600-23		TW-30600-25	
4-way	Male lock	TW-30600-12		TW-30600-17	

†Locking ring does not rotate.

Plastic Luer Assemblies

Multiple styles to choose

Luer assemblies can be used to connect to bio-bags, injection sites, or a sampling tube. Fitting is molded onto the tubing for a seamless transition. Each assembly comes packaged individually. Assemblies can be sterilized.



Key	Catalog number	Features	Terminations	Material	Price
Tubing assemblies					
A	TW-30526-00	3-way assembly branches on port into three ports. Each branch is color coded and includes a pinch clamp to stop or slow flow without disconnecting tubing.	Male luer lock x female luer	Polycarbonate luer fittings and PVC tubing	/ pk of 10
B	TW-30526-02	Single inlet branches into two tubes each with two more branches for a total of four outlet connections. Each pair of branches includes a slide clamp to stop or slow flow.	Male luer lock x female luer	Polycarbonate luer fittings and PVC tubing	/ pk of 10
C	TW-30526-04	Stopcock attached to 12" of tubing molded to a luer termination. Stopcock is labeled for two-way, three-way, and off positions.	3-way stopcock with two female luer connections x male luer lock	Polycarbonate luer fittings and PVC tubing	/ pk of 10
Luer adapters					
D	TW-30526-06	Y-branch fitting with rigid tubing.	Male swivel luer lock x One branch: female luer Other: variable size compression fitting that will accept up to 1/8" tubing	Polycarbonate rigid tubing body and polycarbonate fitting with silicone gasket in the compression fitting.	/ pk of 10
E	TW-30526-08	Luer fitting cap with both male and female connections.	Male luer lock x female luer	Polycarbonate	/ pk of 100
F	TW-30526-10	Valved needle-free syringe connection, with the female inlet connection activated by the male side of the syringe.	Female luer x male luer lock	Polycarbonate body with a silicone valve	/ ea
High-pressure tubing assemblies					
	TW-30526-14	Pressure rating up to 900 psi. 10" length.	Male luer lock x female luer	Polycarbonate luer fittings and PVC tubing	/ pk of 10
G	TW-30526-16	Pressure rating up to 900 psi. 20" length.	Male luer lock x female luer	Polycarbonate luer fittings and PVC tubing	/ pk of 10
	TW-30526-18	Pressure rating up to 900 psi. 48" length.	Male luer lock x female luer	Polycarbonate luer fittings and PVC tubing	/ pk of 10
Luer check valves					
H	TW-30505-91	One way valve. Cracking pressure <0.174	Female luer x male luer lock	SAN/LDPE with silicone diaphragm	/ pk of 10
	TW-30505-92	One way valve. Cracking pressure <0.174	Female luer lock x male luer lock	Clean SAN with silicone diaphragm	/ pk of 10
I	TW-30505-93	Anti-siphon valve. Cracking pressure 1.450-4.351 psig. Max back pressure 304.579 psig	Female luer lock x male luer lock	Clear and blue SAN w/ silicone diaphragm	/ pk of 10
	TW-30505-94	Anti-siphon valve. Cracking pressure 1.450-4.351 psig. Max back pressure 87.023 psig.	Female luer lock x male luer lock	Clear and blue SAN w/ silicone diaphragm	/ pk of 10

High-Performance Glass Syringes



07939-22 with luer tip



07939-32 with PTFE luer lock

Sample loss is negligible at maximum pressures of 200 psi (13.8 bar), depending on bore diameter. These essentially inert syringes have plungers coated with PTFE (except 50 µL and 100 µL models). Barrels and plungers are interchangeable within each syringe size, making field repair possible.

Catalog number	Syringe capacity	Needle gauge	Price
Syringes with luer tip			
LZ-07939-20	10 µL	26s	
LZ-07939-21	25 µL	22s	
LZ-07939-22	50 µL	22s	
LZ-07939-23	100 µL	22s	
LZ-07939-24	250 µL	22s	
LZ-07939-25	500 µL	22	
LZ-07939-70	1 mL	22	
LZ-07939-71	1.25 mL	22	
LZ-07939-72	2.5 mL	22	
LZ-07939-73	5 mL	22	
LZ-07939-74	10 mL	22	

Catalog number	Syringe capacity	Needle gauge	Price
Syringes with PTFE luer lock			
LZ-07939-32	50 µL	22s	
LZ-07939-33	100 µL	22s	
LZ-07939-34	250 µL	22s	
LZ-07939-35	500 µL	22	
LZ-07939-80	1 mL	22	
LZ-07939-82	2.5 mL	22	
LZ-07939-83	5 mL	22	
LZ-07939-84	10 mL	22	
LZ-07939-85	25 mL	22	
LZ-07939-86	50 mL	22	

*Not for use in the withdrawal mode when using syringe pumps.

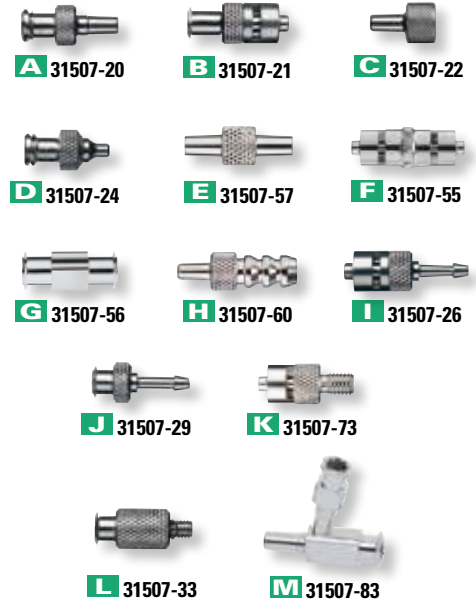


Metal Luer Fittings, Stopcocks, and Manifolds

- Exceptional durability
- Easy to disassemble for cleaning
- Stopcock handles turn 180°
- Select 316 stainless steel fittings for your harsh chemical environments
- Autoclavable

316 Stainless Steel and Nickel-Plated Brass Fittings

Key	Description	316 stainless steel		Nickel-plated brass	
		Catalog number	Price/ea	Catalog number	Price/ea
A	Female luer x male luer	TW-31507-20		TW-31507-50	
B	Female luer x male luer lock	TW-31507-21		TW-31507-51	
C	Male luer plug	TW-31507-22		TW-31507-54	
	Male luer lock plug	TW-31507-23		TW-31507-52	
D	Female luer plug	TW-31507-24		TW-31507-53	
E	Male luer x male luer	—	—	TW-31507-57	
F	Male luer lock x male luer lock	TW-31507-90		TW-31507-55	
G	Female luer x female luer	TW-31507-89		TW-31507-56	
H	Male luer x 1/4" hose barb	—	—	TW-31507-60	
I	Male luer lock x 1/16" hose barb	TW-31507-26		TW-31507-62	
	Male luer lock x 1/8" hose barb	TW-31507-25		TW-31507-61	
	Male luer lock x 1/4" hose barb	TW-31507-27		TW-31507-66	
J	Female luer x 1/16" hose barb	TW-31507-29		TW-31507-64	
	Female luer x 1/8" hose barb	TW-31507-28		TW-31507-63	
	Female luer x 1/4" hose barb	TW-31507-30		TW-31507-65	
K	Male luer lock x 10-32 UNF thread	TW-31507-31		TW-31507-70	
	Male luer lock x 1/4-28 UNF thread	TW-31507-32		TW-31507-73	
	Male luer lock x 1/8" NPT	TW-31507-44		TW-31507-84	
	Male luer lock x 1/4" NPT	TW-31507-45		TW-31507-85	
L	Female luer x 10-32 UNF thread	TW-31507-33		TW-31507-71	
	Female luer x 1/4-28 UNF thread	TW-31507-34		TW-31507-72	
	Female luer x 1/8" NPT	TW-31507-46		TW-31507-86	
	Female luer x 1/4" NPT	TW-31507-48		TW-31507-87	
M	Side arm injection port 2 female, 1 male luer	—	—	TW-31507-83	

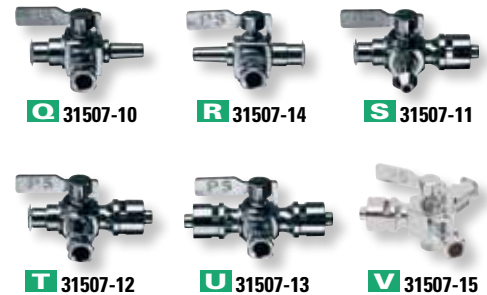


Nickel-Plated Brass and Stainless Steel Stopcocks

Key	Description	Catalog number	Price/ea
One-way stopcocks, nickel-plated brass			
N	Female luer x male luer	TW-31507-00	
O	Female luer x male luer lock	TW-31507-01	
P	Male luer lock x male luer lock	TW-31507-02	
Three-way stopcocks, nickel-plated brass			
Q	Female luer x male luer x side-arm (right) female luer	TW-31507-10	
R	Female luer x male luer x side-arm (left) female luer	TW-31507-14	
S	Female luer x male luer lock x side-arm 1/8" hose barb	TW-31507-11	
T	Female luer x male luer lock x side-arm female luer	TW-31507-12	
U	Male luer lock x male luer lock x side-arm female luer	TW-31507-13	
V	Y-stopcock 2 females, 1 male lock	TW-31507-15	
Two- and three-way stopcocks, 303 SS			
W	Two-way, female x male luer	TW-31607-00	
X	Three-way, female luer x male luer x male luer	TW-31607-02	
Four-way stopcocks, chrome-plated brass with satin finish			
Y	Female luer x male luer x male luer x male luer	TW-31607-08	



Three-way stopcocks



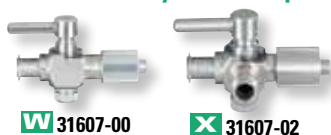
Nickel-Plated Brass Manifolds

Key	Description	Catalog number	Price/ea
Z	3 male lock ports with 1 female port	TW-31507-91	
	4 male lock ports with 1 female port	TW-31507-92	
	5 male lock ports with 1 female port	TW-31507-93	
	5 female ports with 1 male port	TW-31507-95	

Manifolds



Two- and three-way 303 SS stopcocks



Four-way stopcock



Cole-Parmer Plastic Fitting Kits

Get organized today!

Organize your workstation with these convenient barbed fittings kits. Assorted fittings come in an impact-resistant plastic box with secure snap-shut latches to prevent spillage. Labeled compartments let you easily locate the fittings you want. Choose from four materials: high-density polyethylene, black nylon, natural polypropylene, and natural PVDF. Storage racks for the fitting kits are sold separately below.

Note: Storage racks are for kits only, not assortment packs.

High-Density Polyethylene (HDPE)

Very good chemical resistance.
Temp range: -65 to 190°F (-53 to 87°C)

Nylon

Good chemical resistance.
Temp range: -40 to 200°F (-40 to 93°C)

Natural Polypropylene (PP)

Very good chemical resistance.
Temp range: 0 to 275°F (-17 to 135°C)

PVDF

Excellent chemical resistance.
Temp range: -79 to 275°F (-62 to 35°C)



Labeled compartments help you find the fitting you want in a snap!

MORE info!

Single barb fittings seal better than multi-barb fittings because they allow the tubing to relax around the barb.

FREE certificate of compliance is available for noted fittings on this page.

See page 509.

Fitting sizes	Material	Catalog number	Price
Barbed connector/reducer kits			
Straight: 1/16", 3/32", 1/8", 5/32", 3/16", 1/4" Reducing: 1/16" x (3/32", 1/8"); 1/8" x (1/16", 3/32", 5/32", 3/16", 1/4"); 1/4" x (3/32", 3/16", 5/16") Press-in Plugs 1/16", 3/32", 1/8"	HDPE	TW-31514-01	
	Nylon	TW-31514-02	
	PP	TW-41514-03	
	PVDF	TW-31514-04	
Straight: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1" Reducing: 1/4" x (3/16", 3/8", 1/2", 5/8"); 3/8" x (3/16", 1/2", 5/8"); 1/2" x (3/16", 5/8"); 5/16" x 5/8"	HDPE	TW-31514-05	
	Nylon	TW-31514-06	
	PP	TW-41514-07	
	PVDF	TW-31514-08	
NPT threaded barb adapter kits			
10-32 taper x 1/16", 3/32", 1/8", barb; 1/8" NPT(M) x 1/16", 5/32", 1/4", 5/16", 3/8"; 1/4" NPT(M) x 1/8", 5/32", 3/16", 1/4", 5/16", 3/8", 1/2"; 3/8" NPT(M) x 1/4", 5/32", 3/8", 1/2"; 1/2" NPT(M) x 1/4", 3/8", 1/2", 5/8", 3/4" 1/8" NPT(M) x (1/4", 3/8"); 1/4" NPT(M) x (1/4", 3/8", 1/2"); 3/8" NPT(M) x (1/4", 3/8", 1/2"); 1/2" NPT(M) x (1/4", 3/8", 1/2", 3/4"); 3/4" NPT(M) x (1/4", 3/8", 1/2", 3/4", 1"); 1" NPT(M) x 1" barb. Nipples: 1/8" NPT(M), 1/4" NPT(M), 3/8" NPT(M), 1/2" NPT(M).	HDPE	TW-31514-09	
	Nylon	TW-31514-10	
	PP	TW-41514-11	
	PVDF	TW-31514-12	
1/8" NPT(M) x (1/4", 3/8"); 1/4" NPT(M) x (1/4", 3/8", 1/2"); 3/8" NPT(M) x (1/4", 3/8", 1/2"); 1/2" NPT(M) x (1/4", 3/8", 1/2", 3/4"); 3/4" NPT(M) x (1/4", 3/8", 1/2", 3/4", 1"); 1" NPT(M) x 1" barb. Nipples: 1/8" NPT(M), 1/4" NPT(M), 3/8" NPT(M), 1/2" NPT(M).	HDPE	TW-31514-33	
	Nylon	TW-31514-34	
	PP	TW-41514-35	
	PVDF	TW-31514-36	
NPT barbed elbow/tee/Y connector kits			
Elbows: 1/16", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16" Tees: 1/16", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16" Y-connectors: 1/16", 3/16", 1/4", 3/8"	HDPE	TW-31514-13	
	Nylon	TW-31514-14	
	PP	TW-41514-15	
	PVDF	TW-31514-16	
Elbows: 1/4", 3/8", 1/2", 5/8", 3/4", 1" Tees: 1/4", 3/8", 1/2", 5/8", 3/4"	HDPE	TW-31514-17	
	Nylon	TW-31514-18	
	PP	TW-41514-19	
	PVDF	TW-31514-20	
NPT threaded elbow/tee/plug/nipple kits			
Elbows: 10-32 taper x (1/16", 3/32", 1/8") barbs; 1/8" NPT(M) x (1/16", 5/32", 1/4", 5/16", 3/8") barbs Tees: 10-32 taper x (1/16", 3/32", 1/8"); 1/8" NPT(M) x (1/16", 5/32", 1/4", 3/8") Nipples: 1/8" NPT(M) x 1/4", 3/8", 1/2"; Plug: 1/4" NPT(M)	HDPE	TW-31514-21	
	Nylon	TW-31514-22	
	PP	TW-41514-23	
	PVDF	TW-31514-24	
Elbows: 1/8" NPT(M) x (1/4", 3/8"); 1/4" NPT(M) x (1/4", 3/8", 1/2"); 3/8" NPT(M) x (1/4", 3/8", 1/2"); 1/2" NPT(M) x (1/4", 3/8", 1/2", 3/4") Tees: 1/8" NPT(M) x (1/4", 3/8"); 1/4" NPT(M) x (1/4", 3/8", 1/2"); 1/2" NPT(M) x (1/4", 3/8", 1/2", 3/4")	HDPE	TW-31514-25	
	Nylon	TW-31514-26	
	PP	TW-41514-27	
	PVDF	TW-31514-28	
BSPT threaded kits			
Adapters: 1/8" BSPT(M) x (1/8", 1/4", 3/8" barb); 1/4" BSPT(M) x (1/4", 3/8", 1/2" barb); 3/8" BSPT(M) x (1/4", 3/8" barb) Elbows: 1/8" BSPT(M) x (1/8", 1/4", 3/8" barb); 1/4" BSPT(M) x (1/4", 1/2" barb); 3/8" BSPT(M) x (1/4", 3/8" barb) Tees: 1/8" BSPT(M) x (1/8", 1/4", 3/8" barb); 1/4" BSPT(M) x (1/4", 3/8", 1/2" barb); 3/8" BSPT(M) x (1/4", 3/8" barb)	HDPE	TW-31514-32	
	Nylon	TW-31514-29	
	PP	TW-41514-30	
	PVDF	TW-31514-31	
Assortment packs			
Assortment pack includes straight, reducing, elbow, tee, and Y fittings in metric sizes from 4 to 16 mm (146 pieces total)	PP	TW-06286-00	
Mini fitting assortment pack. Contains 25 straight fittings, and 3/32" tubing ID sizes (240 pieces total)	PP	TW-06365-90	
T connector pack. Contains six each of the 4- to 14-mm sizes (36 pieces total)	PP	TW-06294-82	
Y connector pack. Contains six each of the 4- to 14-mm sizes	PP	TW-06295-82	
Straight/reducing connector pack. Contains two of each size of 1/16" to 1/8" fittings. (22 pieces total)	PP	TW-06460-00	
Assorted luer fittings (477 pieces total). See ColeParmer.com for kit composition.	PP, nylon, PC	TW-45511-00	

TW-31513-12 Storage rack holds four kits (models 31514-01, -02, -03, -04, -17, -18, -19, -20, -25, -26, -27, -28)
TW-31513-32 Storage rack holds four kits (all other models)

Note: Storage racks above are for kits only, not assortment packs.

Application/Selection Guide

CPC The Colder Products Advantage

Cole-Parmer is proud to offer Colder Products quick-disconnect connectors, a practical and cost-effective solution you can trust from a superior product. CPC connectors meet the needs of the lab, industrial, pharmaceutical, and chemical markets, among others, by offering you the following benefits:

Flexibility. We offer many materials and many connection options, with pressures up to 250 psi and temperatures from -40 to 300°F (-40 to 149°C). Colder connectors accommodate microbore to 3/4" inner diameter tubing.

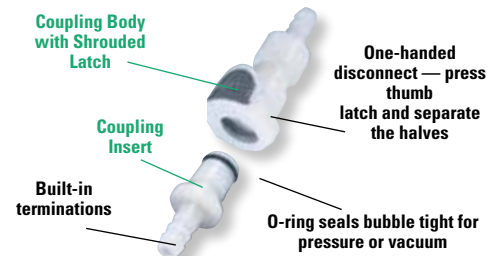
Serviceability. Replacing parts or switching lines is easy and intuitive for less downtime and greater process efficiency.

Safety. Most models offer shut-off valves to reduce spills and leaks, even under pressure, to protect consumer and employee safety.

Convenience. CPC's thumb-latch design allows easy one-handed operation on most models. An audible click confirms a secure seal.

TECHNICAL info!

Automatic Latching:
To connect coupling, slide insert into body, feel the latch engage and hear the "click"—it's secure!



Coupling Materials:
ABS, acetal, chrome-plated brass, polycarbonate, polypropylene, polysulfone, PVDF and stainless steel

KEY INFORMATION

Comparison Chart and Page Locator

Fitting type	Image	CPC series	Flow size	Body material	Seals	Temperature range	Pressure rating	Page
Miniature Quick-Disconnects		SMC	3/32"	Acetal	Buna N	-40 to 180°F (-40 to 82°C)	100 psi (6.9 bar)	554
				PP	EPDM	32 to 180°F (0 to 82°C)	100 psi (6.9 bar)	554
				PC	Buna N	-40 to 250°F (-40 to 121°C)	100 psi (6.9 bar)	554
Quick-Click Connectors		SRC	0.100"	PP	Overmolded TPE	32 to 110°F (0 to 43°C)	25 psi (1.7 bar)	556
Standard Quick-Disconnects		PLC, PMC	1/8", 1/4", 3/8"	Acetal	Buna N	-40 to 180°F (-40 to 82°C)	120 psi (8.3 bar)	550-551
				PP	EPDM	32 to 160°F (0 to 71°C)	100 psi (6.9 bar)	550-551
Plastic Quick-Disconnects		APC	1/4"	Acetal	Buna N	-40 to 180°F (-40 to 82°C)	120 psi (8.3 bar)	552
High-Flow Quick-Disconnects		HFC	3/8"	PP	EPDM	32 to 160°F (0 to 71°C)	60 psi (4.1 bar)	553
				PSF	EPDM	-40 to 280°F (-40 to 138°C)	125 psi (8.6 bar)	553
Metal Quick-Disconnects		MC, LC	1/8", 1/4"	Chrome-plated brass	Buna N	-40 to 180°F (-40 to 82°C)	250 psi (17.2 bar)	559
				SS	Buna N	-40 to 200°F (-40 to 93°C)	250 psi (17.2 bar)	559
Bioprocessing Quick-Disconnects		MPC, MPX, SaniQuik®	0.210 to 0.500"	PC	Silicone/Buna N	-40 to 250°F (-40 to 121°C)	60 psi (4.1 bar)	552, 558
				PSF	Silicone/Buna N	-40 to 300°F (-40 to 149°C)	60 psi (4.1 bar)	552, 558
Miniature Non-Spill Quick Disconnects		NS2	3/32"	PP	EPDM	32 to 120°F (0 to 49°C)	45 psi (3.1 bar)	555
Non-Spill Quick Disconnects		NS4	1/4"	PP	EPDM	32 to 120°F (0 to 49°C)	120 psi (8.3 bar)	555
Large diameter Non-Spill Quick Disconnects		NS6	3/8"	PP	EPDM	32 to 120°F (0 to 49°C)	120 psi (8.3 bar)	555
ChemQuik® Quick-Disconnects		ChemQuik®	3/8"	PP	Viton® FKM	32 to 225°F (0 to 107°C)	80 psi (5.5 bar)	557
Drum Adapter Systems		DrumQuik® PRO	1/2"	PP/PE	Food-grade EPDM	32 to 135°F (0 to 57°C)	45 psi (3.1 bar)	See online
AseptiQuik™		AQC	1/2"	PC	Silicone	39 to 104°F (4 to 40°C)	60 psi (4.1 bar)	557
Polysulfone Quick-Disconnects		HFCD	1/2"	PSF	Silicone	-40 to 280°F (-40 to 138°C)	125 psi (8.6 bar)	555
SnapQuik™		BSQ	—	Acetal	Buna N	32 to 122°F (0 to 50°C)	15 psi (1.0 bar)	556

Fittings

Quick-Disconnect, Standard Bodies

Distributed by:

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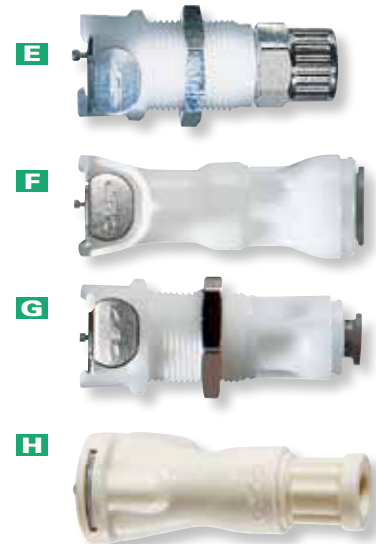
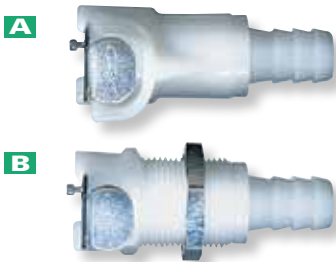
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Quick-Disconnect Couplings

Available in acetal or polypropylene construction

Choose from four styles—hose barb, compression, push-to-connect, and NPT threaded adapter—for either standard in-line or panel-mount configurations

For each complete quick-disconnect fitting, order one body (below) and one insert (page 551) with the same flow size. Plug insert into body to connect fitting—fitting halves lock in place immediately. To disconnect fitting halves, simply press the thumb latch on the coupling body; a spring-operated valve in each fitting half seals the flow path. ("Straight-through" fittings without shutoff valves are also available.) All fitting bodies have 316 stainless steel springs and latches.



Quick-Disconnect Bodies (Female Coupling Halves)

A Hose Barb Bodies

Catalog number	Tube ID	Flow size	Length	Resin	Price/pk of 1
Valved fittings					
TW-06360-19	1/16"	1/8"	1.41"	Acetal	
TW-06360-20	1/8"	1/8"	1.65"	Acetal	
TW-06360-22	3/16"	1/8"	1.85"	Acetal	
TW-06360-25	1/4"	1/8"	1.85"	Acetal	
TW-06360-65	1/4"	1/4"	1.95"	Acetal	
TW-06360-67	5/16"	1/4"	1.95"	Acetal	
TW-06360-70	3/8"	1/4"	1.95"	Acetal	
TW-06364-19	1/16"	1/8"	1.41"	PP	
TW-06364-20	1/8"	1/8"	1.67"	PP	
TW-06364-25	1/4"	1/8"	1.87"	PP	
TW-06364-65	1/4"	1/4"	1.97"	PP	
TW-06364-70	3/8"	1/4"	1.97"	PP	
Straight-through fittings					
TW-06361-09	1/16"	1/8"	1.41"	Acetal	
TW-06361-11	1/8"	1/8"	1.65"	Acetal	
TW-06361-12	3/16"	1/8"	1.85"	Acetal	
TW-06361-13	1/4"	1/8"	1.85"	Acetal	
TW-06361-51	1/4"	1/4"	1.95"	Acetal	
TW-06361-52	5/16"	1/4"	1.95"	Acetal	
TW-06361-53	3/8"	1/4"	1.95"	Acetal	

B Panel-Mount Hose Barb Bodies

Catalog number	Tube ID	Flow size	Thread	Resin	Price/pk of 1
Valved fittings					
TW-06360-09	1/16"	1/8"	1/2-24	Acetal	
TW-06360-10	1/8"	1/8"	1/2-24	Acetal	
TW-06360-12	3/16"	1/8"	1/2-24	Acetal	
TW-06360-15	1/4"	1/8"	1/2-24	Acetal	
TW-06360-55	1/4"	1/4"	11/16-24	Acetal	
TW-06360-57	5/16"	1/4"	11/16-24	Acetal	
TW-06360-60	3/8"	1/4"	11/16-24	Acetal	
TW-06364-09	1/16"	1/8"	1/2-24	PP	
TW-06364-10	1/8"	1/8"	1/2-24	PP	
TW-06364-15	1/4"	1/8"	1/2-24	PP	
TW-06364-55	1/4"	1/4"	11/16-24	PP	
TW-06364-60	3/8"	1/4"	11/16-24	PP	
Straight-through fittings					
TW-06361-03	1/16"	1/8"	1/2-24	Acetal	
TW-06361-04	1/8"	1/8"	1/2-24	Acetal	
TW-06361-05	3/16"	1/8"	1/2-24	Acetal	
TW-06361-06	1/4"	1/8"	1/2-24	Acetal	
TW-06361-46	1/4"	1/4"	11/16-24	Acetal	
TW-06361-47	5/16"	1/4"	11/16-24	Acetal	
TW-06361-48	3/8"	1/4"	11/16-24	Acetal	

C NPT(M) Threaded Adapter Bodies

Catalog number	NPT(M)	Flow size	Resin	Price/pk of 1
Valved fittings				
TW-06359-70	1/8"	1/8"	Acetal	
TW-06359-71	1/4"	1/8"	Acetal	
TW-06359-72	1/4"	1/4"	Acetal	
TW-06359-73	3/8"	1/4"	Acetal	
TW-06359-80	1/8"	1/8"	PP	
TW-06359-81	1/4"	1/8"	PP	
TW-06359-82	1/4"	1/4"	PP	
TW-06359-83	3/8"	1/4"	PP	
Straight-through fittings				
TW-06361-00	1/8"	1/8"	Acetal	
TW-06361-01	1/4"	1/8"	Acetal	
TW-06361-42	1/4"	1/4"	Acetal	
TW-06361-43	3/8"	1/4"	Acetal	

D Compression Bodies

Catalog number	Tube OD	Flow size	Length	Resin	Price/pk of 1
Valved fittings					
TW-06360-98	1/4"	1/8"	1.73"	Acetal	
TW-06359-90	1/4"	1/4"	1.82"	Acetal	
TW-06359-91	3/8"	1/4"	1.95"	Acetal	
TW-06364-90	1/4"	1/8"	1.74"	PP	
TW-06364-91	3/8"	1/4"	1.97"	PP	
Straight-through fittings					
TW-06361-08	1/4"	1/8"	1.73"	Acetal	
TW-06361-49	3/8"	1/4"	1.95"	Acetal	

E Panel-Mount Compression Bodies

Catalog number	Tube OD	Flow size	Thread	Resin	Price/pk of 1
Valved fittings					
TW-06360-05	1/4"	1/8"	1/2-24	Acetal	
TW-06360-49	1/4"	1/4"	11/16-24	Acetal	
TW-06360-50	3/8"	1/4"	11/16-24	Acetal	
TW-06364-05	1/4"	1/8"	1/2-24	PP	
TW-06364-50	3/8"	1/4"	11/16-24	PP	
Straight-through fittings					
TW-06361-02	1/4"	1/8"	1/2-24	Acetal	
TW-06361-44	1/4"	1/4"	11/16-24	Acetal	
TW-06361-45	3/8"	1/4"	11/16-24	Acetal	

Specifications

Body material	Acetal	Polypropylene (PP)
Seal material	Buna N	EPR
Max temp	180°F (82°C)	160°F (71°C)
Max pressure at 70°F (21°C)	120 psi	100 psi
Max vacuum	28" Hg	28" Hg
Sterilization	Autoclave or ETO	Gamma or ETO

F Push-to-Connect Bodies

Catalog number	Tube OD	Flow size	Length	Resin	Price/pk of 1
Valved fittings					
TW-31304-00	1/4"	1/4"	1.95"	Acetal	
TW-31304-02	3/8"	1/4"	2.08"	Acetal	
Straight-through fittings					
TW-31304-10	1/4"	1/4"	1.95"	Acetal	
TW-31304-12	3/8"	1/4"	2.08"	Acetal	

G Panel-Mount Push-to-Connect Bodies

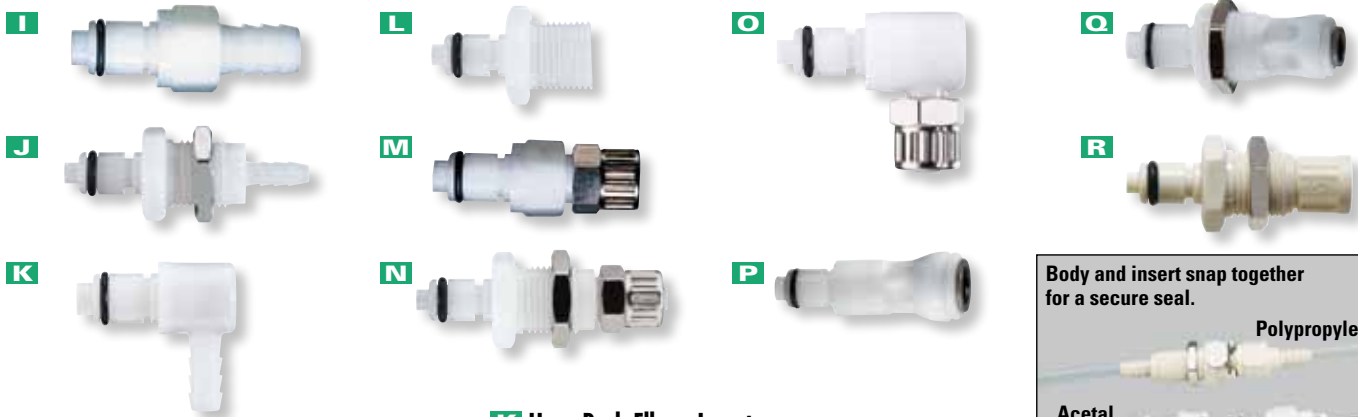
Catalog number	Tube OD	Flow size	Length	Resin	Price/pk of 1
Valved fitting					
TW-31304-50	1/4"	1/4"	1.95"	Acetal	
Straight-through fitting					
TW-31304-40	1/4"	1/4"	1.95"	Acetal	

H 1/4-28 Flat-Bottom Port Valved Bodies

Catalog number	UNF (F)	Flow size	Length	Resin	Price/pk of 1
In-line body					
TW-06368-69	1/4-28	1/8"	1.57"	PP	
Panel-mount body					
TW-06368-70	1/4-28	1/8"	1.57"	PP	

Fittings

Quick-Disconnect, Standard Inserts



Quick-Disconnect Inserts

(Male Coupling Halves)

I Hose Barb Inserts

Catalog number	Tube ID	Flow size	Length	Resin	Price/pk of 1
Valved fittings					
TW-06360-36	1/16"	1/8"	1.35"	Acetal	
TW-06360-40	1/8"	1/8"	1.55"	Acetal	
TW-06360-43	3/16"	1/8"	1.75"	Acetal	
TW-06360-45	1/4"	1/8"	1.58"	Acetal	
TW-06360-80	1/4"	1/4"	1.86"	Acetal	
TW-06360-83	5/16"	1/4"	1.86"	Acetal	
TW-06360-85	3/8"	1/4"	1.86"	Acetal	
TW-06364-38	1/16"	1/8"	1.35"	PP	
TW-06364-40	1/8"	1/8"	1.55"	PP	
TW-06364-45	1/4"	1/8"	1.58"	PP	
TW-06364-80	1/4"	1/4"	1.86"	PP	
TW-06364-85	3/8"	1/4"	1.67"	PP	
Straight-through fittings					
TW-06360-38	1/16"	1/8"	0.80"	Acetal	
TW-06360-42	1/8"	1/8"	1.05"	Acetal	
TW-06360-44	3/16"	1/8"	1.25"	Acetal	
TW-06360-47	1/4"	1/8"	1.25"	Acetal	
TW-06360-82	1/4"	1/4"	1.35"	Acetal	
TW-06360-84	5/16"	1/4"	1.35"	Acetal	
TW-06360-87	3/8"	1/4"	1.35"	Acetal	
TW-06364-39	1/16"	1/8"	0.80"	PP	
TW-06364-42	1/8"	1/8"	1.05"	PP	
TW-06364-47	1/4"	1/8"	1.25"	PP	
TW-06364-82	1/4"	1/4"	1.35"	PP	
TW-06364-87	3/8"	1/4"	1.35"	PP	

J Panel-Mount Hose Barb Inserts

Catalog number	Tube ID	Flow size	Length	Resin	Price/pk of 1
Valved fittings					
TW-06361-33	1/16"	1/8"	1.38"	Acetal	
TW-06361-34	1/8"	1/8"	1.63"	Acetal	
TW-06361-35	3/16"	1/8"	1.83"	Acetal	
TW-06361-36	1/4"	1/8"	1.83"	Acetal	
TW-06361-71	1/4"	1/4"	1.91"	Acetal	
TW-06361-72	5/16"	1/4"	1.91"	Acetal	
TW-06361-73	3/8"	1/4"	1.91"	Acetal	
TW-06361-92	1/4"	1/4"	1.91"	PP	
TW-06361-93	3/8"	1/4"	1.91"	PP	
Straight-through fittings					
TW-06361-21	1/16"	1/8"	1.38"	Acetal	
TW-06361-22	1/8"	1/8"	1.63"	Acetal	
TW-06361-23	3/16"	1/8"	1.83"	Acetal	
TW-06361-24	1/4"	1/8"	1.83"	Acetal	
TW-06361-58	1/4"	1/4"	1.91"	Acetal	
TW-06361-59	5/16"	1/4"	1.91"	Acetal	
TW-06361-61	3/8"	1/4"	1.91"	Acetal	
TW-06361-82	1/4"	1/4"	1.91"	PP	
TW-06361-83	3/8"	1/4"	1.91"	PP	

K Hose Barb Elbow Inserts

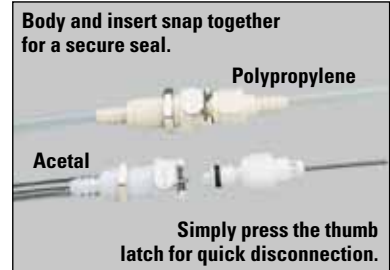
Catalog number	Tube ID	Flow size	Length	Resin	Price/pk of 1
Valved fittings					
TW-06361-39	1/16"	1/8"	1.09"	Acetal	
TW-06361-41	1/4"	1/8"	1.09"	Acetal	
TW-06361-75	1/4"	1/4"	1.22"	Acetal	
TW-06361-76	3/8"	1/4"	1.22"	Acetal	
TW-06361-98	1/8"	1/8"	1.09"	PP	
TW-06361-99	1/4"	1/8"	1.09"	PP	
TW-06362-00	1/4"	1/4"	1.21"	PP	
TW-06362-01	3/8"	1/4"	1.21"	PP	
Straight-through fittings					
TW-06361-27	1/8"	1/8"	0.85"	Acetal	
TW-06361-28	1/4"	1/8"	1.00"	Acetal	
TW-06361-63	1/4"	1/4"	1.10"	Acetal	
TW-06361-64	3/8"	1/4"	1.20"	Acetal	
TW-06361-85	1/8"	1/8"	1.09"	PP	
TW-06361-86	1/4"	1/8"	1.09"	PP	
TW-06361-87	1/4"	1/4"	1.21"	PP	
TW-06361-88	3/8"	1/4"	1.21"	PP	

L NPT(M) Threaded Adapter Inserts

Catalog number	NPT(M)	Flow size	Resin	Price/pk of 1
Valved fittings				
TW-06361-29	1/8"	1/8"	Acetal	
TW-06361-31	1/4"	1/8"	Acetal	
TW-06361-65	1/4"	1/4"	Acetal	
TW-06361-66	3/8"	1/4"	Acetal	
TW-06361-89	1/8"	1/8"	PP	
TW-06361-91	1/4"	1/4"	PP	
Straight-through fittings				
TW-06361-17	1/8"	1/8"	Acetal	
TW-06361-18	1/4"	1/8"	Acetal	
TW-06361-54	1/4"	1/4"	Acetal	
TW-06361-55	3/8"	1/4"	Acetal	
TW-06361-79	1/8"	1/8"	PP	
TW-06361-81	1/4"	1/4"	PP	

M Compression Inserts

Catalog number	Tube OD	Flow size	Length	Resin	Price/pk of 1
Valved fittings					
TW-06360-30	1/4"	1/8"	1.45"	Acetal	
TW-06360-35	3/8"	1/8"	1.40"	Acetal	
TW-06360-74	1/4"	1/4"	1.75"	Acetal	
TW-06360-75	3/8"	1/4"	1.68"	Acetal	
TW-06364-30	1/4"	1/8"	1.45"	PP	
TW-06364-75	3/8"	1/4"	1.68"	PP	
Straight-through fittings					
TW-06360-32	1/4"	1/8"	1.15"	Acetal	
TW-06360-37	3/8"	1/8"	1.30"	Acetal	
TW-06360-76	1/4"	1/4"	1.25"	Acetal	
TW-06360-77	3/8"	1/4"	1.38"	Acetal	
TW-06364-32	1/4"	1/8"	1.15"	PP	
TW-06364-77	3/8"	1/4"	1.38"	PP	



N Panel-Mount Compression Inserts

Catalog number	Tube OD	Flow size	Length	Resin	Price/pk of 1
Valved fittings					
TW-06361-32	1/4"	1/8"	1.70"	Acetal	
TW-06361-68	1/4"	1/4"	1.78"	Acetal	
TW-06361-69	3/8"	1/4"	1.91"	Acetal	
Straight-through fittings					
TW-06361-19	1/4"	1/8"	1.70"	Acetal	
TW-06361-56	1/4"	1/4"	1.78"	Acetal	
TW-06361-57	3/8"	1/4"	1.91"	Acetal	

O Compression Elbow Inserts

Catalog number	Tube OD	Flow size	Length	Resin	Price/pk of 1
Valved fittings					
TW-06361-38	1/4"	1/8"	1.20"	Acetal	
TW-06361-74	3/8"	1/4"	1.22"	Acetal	
TW-06361-96	1/4"	1/8"	1.09"	PP	
TW-06361-97	3/8"	1/4"	1.22"	PP	
Straight-through fittings					
TW-06361-26	1/4"	1/8"	1.17"	Acetal	
TW-06361-62	3/8"	1/4"	1.22"	Acetal	
TW-06361-84	3/8"	1/4"	1.29"	PP	

P Standard Push-to-Connect Inserts

Catalog number	Tube OD	Flow size	Length	Resin	Price/pk of 1
Valved fittings					
TW-31304-30	1/4"	1/4"	1.81"	Acetal	
TW-31304-32	3/8"	1/4"	1.96"	Acetal	
Straight-through fittings					
TW-31304-20	1/4"	1/4"	1.35"	Acetal	
TW-31304-22	3/8"	1/4"	1.48"	Acetal	

Q Panel-Mount Push-to-Connect Inserts

Catalog number	Tube OD	Flow size	Thread	Resin	Price/pk of 1
Valved fitting					
TW-31304-70	1/4"	1/4"	1 1/16-24	Acetal	
Straight-through fitting					
TW-31304-60	1/4"	1/4"	1 1/16-24	Acetal	

R 1/4-28 Flat-Bottom Port Panel-Mount Valved Insert

Catalog number	UNF (F)	Flow size	Length	Resin	Price/pk of 1
TW-06368-71	1/4-28	1/8"	1.55"	PP	

Fittings

Quick-Disconnect, All-Plastic

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CPC Plastic Quick-Disconnect Fittings

100 percent metal-free flow path on select models!

- Acetal fittings are ideal for use with corrosive fluids
- Polycarbonate and polysulfone materials meet USP Class VI requirements

Simply press the thumb latch to disconnect coupling halves. Polycarbonate and polysulfone materials meet USP Class VI requirements and pass all physicochemical, cytotoxicity, leachables, and extractables tests. Certificate of Compliance is available for polycarbonate and polysulfone fittings on this page. Order complete couplings or separate bodies and inserts from the tables below. **Note:** Standard bodies and inserts fit together; won't work with large bodies and inserts and vice versa. For one complete coupling, order one fitting body and one insert. As an alternative, complete couplings are available below.

FREE certificate of compliance is available for PC and PSF fittings on this page.

See page 509.

Specifications

Body material	Acetal	Polycarbonate (PC)	Polysulfone (PSF)
Temperature range	-40 to 180°F (-40 to 82°C)	-40 to 250°F (-40 to 121°C)	-40 to 300°F (-40 to 148°C)
Max pressure	120 psi (8.3 bar)	125 psi† (8.6 bar)	120 psi (8.6 bar)
Max vacuum	28" Hg (711.2 torr)	25" Hg (635 torr)	25" Hg (635 torr)
Sterilization	Autoclave or ETO	Autoclave, ETO, or gamma irradiation	Autoclave, ETO, or gamma irradiation

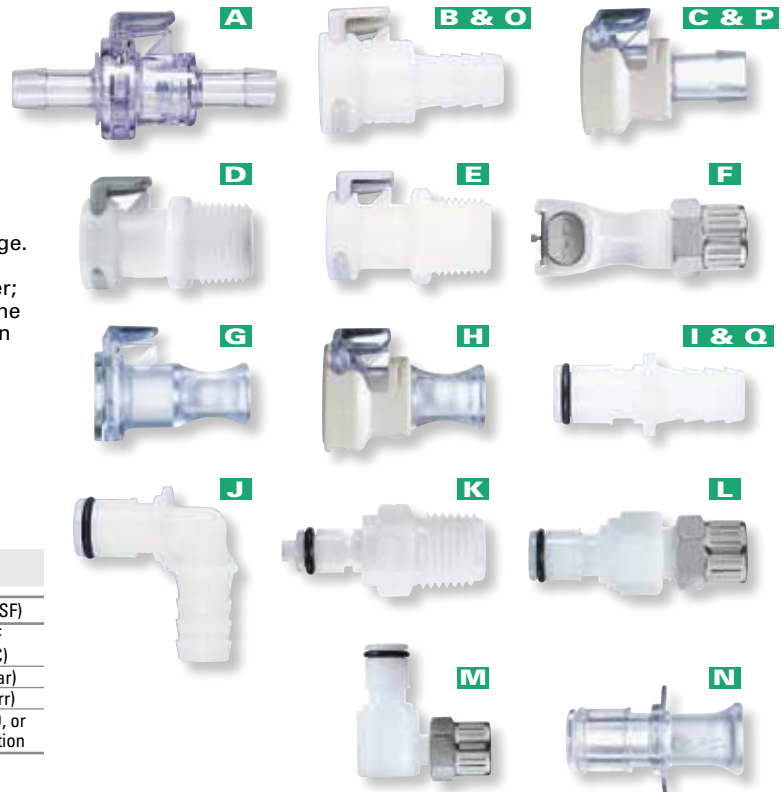
†Max pressure for 1/2" polycarbonate fittings is 60 psi.

Complete Couplings

Key	Catalog number	Size	Material	Length	Qty/pk	Price/pk
A	TW-06360-90	1/4" tubing ID	Acetal	—	10	
	TW-31305-00		PC	—	10	
	TW-06360-91	3/8" tubing ID	Acetal	—	10	
	TW-31305-05		PC	—	10	
	TW-31306-05		PSF	—	10	

Standard Bodies and Caps

Key	Catalog number	Size	Material	Length	Qty/pk	Price/pk
Barbed bodies						
E	TW-06360-94	1/4" tubing ID	Acetal	1.31"	10	
	TW-31311-11		PC		5	
	TW-31311-21		PSF		5	
	TW-06360-95	3/8" tubing ID	Acetal		10	
	TW-31311-12		PC		5	
	TW-31311-22		PSF		5	
Hose barb coupling bodies with lock						
C	TW-31311-16	1/4" tubing ID	PC	1.31"	5	
	TW-31311-26		PSF		5	
	TW-31311-17	3/8" tubing ID	PC		5	
	TW-31311-27		PSF		5	
BSP straight-through bodies						
D	TW-06360-01	1/4" BSP	Acetal	1.31"	10	
	TW-06360-02	3/8" BSP			10	
NPT(M) bodies						
E	TW-06360-00	1/4" NPT	Acetal	1.31"	10	
	TW-06360-96	3/8" NPT			10	
Compression coupling bodies						
F	TW-06360-06	1/4" OD	Acetal	1.31"	10	
	TW-06360-08	3/8" OD			10	
Sealing caps						
G	TW-31311-64	1/4"	PC	1.31"	5	
	TW-31311-74	1/4"	PSF		5	
Sealing caps with lock						
H	TW-31311-67	1/4"	PC	1.31"	5	
	TW-31311-77	1/4"	PSF		5	



Standard Inserts and Plugs

Key	Catalog number	Size	Material	Length	Qty/pk	Price/pk
Barbed inserts						
I	TW-06360-92	1/4" tubing ID	Acetal	1.28"	10	
	TW-31311-61		PC		5	
	TW-31311-71		PSF		5	
	TW-06360-93	3/8" tubing ID	Acetal		10	
	TW-31311-62		PC		5	
	TW-31311-72		PSF		5	
BSP straight-through bodies						
J	TW-06360-27	1/4" BSP	Acetal	1.28"	10	
	TW-06360-97	3/8" BSP			10	
NPT(M) inserts						
K	TW-06360-16	1/4" NPT	Acetal	1.28"	10	
	TW-06360-18	3/8" NPT			10	
Compression coupling bodies						
L	TW-06360-21	1/4" OD	Acetal	1.28"	10	
	TW-06360-24	3/8" OD			10	
Compression elbow bodies						
M	TW-06360-31	1/4" OD	Acetal	1.28"	10	
	TW-06360-34	3/8" OD			10	
Plugs with lock						
N	TW-31311-68	1/4"	PC	1.20"	5	
	TW-31311-78	1/4"	PSF		5	

Large Bodies and Inserts (use these bodies and inserts together)

Key	Catalog number	Size	Material	Length	Qty/pk	Price/pk
Barbed bodies						
O	TW-31311-13	1/2" tubing ID	PC	1.96"	5	
	TW-31311-23		PSF		5	
Hose barb coupling bodies with lock						
P	TW-31311-18	3/8" tubing ID	PC	1.96"	5	
	TW-31311-28		PSF		5	
Barbed inserts						
Q	TW-31311-63	1/2" tubing ID	PC	1.90"	5	
	TW-31311-73		PSF	1.40"	5	

CPC High-Flow Quick-Disconnect Couplings

Valved models offer automatic flow shutoff

A complete quick-disconnect fitting consists of a body and an insert (order fitting halves separately). Plug insert into coupling body to connect—fitting halves lock into place immediately. To disconnect fitting halves, simply press the button on the coupling body.

Valved models have a spring-operated 316 SS valve that seals the flow path when fitting halves are disengaged. All fitting bodies have 316 SS latch springs and EPDM seals.

Specifications

	Polypropylene	Polysulfone
Body material	Polypropylene	Polysulfone
Temperature range	0 to 71°C (32 to 160°F)	-40 to 137°C (-40 to 280°F)
Max pressure	60 psi (4.14 bar)	125 psi (8.62 bar)
Max vacuum	27.5" Hg (698.5 torr)	27.5" Hg (698.5 torr)
Sterilisation	ETO or gamma	Autoclave, ETO, or gamma



Quick-Disconnect Bodies (Female Coupling Halves)

A Threaded Adapter Bodies

Flow size	NPT(M)	Polypropylene		Polysulfone	
		Cat. no.	Price/pk of 1	Cat. no.	Price/pk of 1
Valved fittings					
3/8"	3/8"	TW-31303-00		TW-31307-00	
3/8"	1/2"	TW-31303-01		TW-31307-01	
3/8"	3/4"	TW-31303-02		TW-31307-02	
Straight-through fittings					
3/8"	3/8"	TW-31303-05		TW-31307-05	
3/8"	1/2"	TW-31303-06		TW-31307-06	
3/8"	3/4"	TW-31303-07		TW-31307-07	

B Hose Barb Bodies

Flow size	Tube ID	Polypropylene		Polysulfone	
		Cat. no.	Price/pk of 1	Cat. no.	Price/pk of 1
Valved fittings					
3/8"	3/8"	TW-31303-10		TW-31307-10	
3/8"	1/2"	TW-31303-11		TW-31307-11	
3/8"	5/8"	TW-31303-12		TW-31307-12	
3/8"	3/4"	TW-31303-13		TW-31307-13	
Straight-through fittings					
3/8"	3/8"	TW-31303-15		TW-31307-15	
3/8"	1/2"	TW-31303-16		TW-31307-16	
3/8"	5/8"	TW-31303-17		TW-31307-17	
3/8"	3/4"	TW-31303-18		TW-31307-18	

C Bulkhead Panel Mount Hose Barb Bodies

Flow size	Tube ID	Polypropylene		Polysulfone	
		Cat. no.	Price/pk of 1	Cat. no.	Price/pk of 1
Valved fittings					
3/8"	3/8"	TW-31303-20		TW-31307-20	
3/8"	1/2"	TW-31303-21		TW-31307-21	
3/8"	5/8"	TW-31303-22		TW-31307-22	
3/8"	3/4"	TW-31303-23		TW-31307-23	
Straight-through fittings					
3/8"	3/8"	TW-31303-25		TW-31307-25	
3/8"	1/2"	TW-31303-26		TW-31307-26	
3/8"	5/8"	TW-31303-27		TW-31307-27	
3/8"	3/4"	TW-31303-28		TW-31307-28	

Quick-Disconnect Inserts (Male Coupling Halves)

D Male Threaded Inserts

Flow size	NPT(M)	Polypropylene		Polysulfone	
		Cat. no.	Price/pk of 1	Cat. no.	Price/pk of 1
Valved fittings					
3/8"	3/8"	TW-31303-35		TW-31307-35	
3/8"	1/2"	TW-31303-36		TW-31307-36	
3/8"	3/4"	TW-31303-37		TW-31307-37	
Straight-through fittings					
3/8"	3/8"	TW-31303-30		TW-31307-30	
3/8"	1/2"	TW-31303-31		TW-31307-31	
3/8"	3/4"	TW-31303-32		TW-31307-32	

E Hose Barb Inserts

Flow size	Tube ID	Polypropylene		Polysulfone	
		Cat. no.	Price/pk of 1	Cat. no.	Price/pk of 1
Valved fittings					
3/8"	3/8"	TW-31303-45		TW-31307-45	
3/8"	1/2"	TW-31303-46		TW-31307-46	
3/8"	5/8"	TW-31303-47		TW-31307-47	
3/8"	3/4"	TW-31303-48		TW-31307-48	
Straight-through fittings					
3/8"	3/8"	TW-31303-40		TW-31307-40	
3/8"	1/2"	TW-31303-41		TW-31307-41	
3/8"	5/8"	TW-31303-42		TW-31307-42	
3/8"	3/4"	TW-31303-43		TW-31307-43	

F Elbow Hose Barb Inserts

Flow size	Tube ID	Polypropylene		Polysulfone	
		Cat. no.	Price/pk of 1	Cat. no.	Price/pk of 1
Valved fittings					
3/8"	3/8"	TW-31303-55		TW-31307-55	
3/8"	1/2"	TW-31303-56		TW-31307-56	
Straight-through fittings					
3/8"	3/8"	TW-31303-50		TW-31307-50	
3/8"	1/2"	TW-31303-51		TW-31307-51	

Distributed by:

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CPC Miniature Quick-Disconnect Couplings

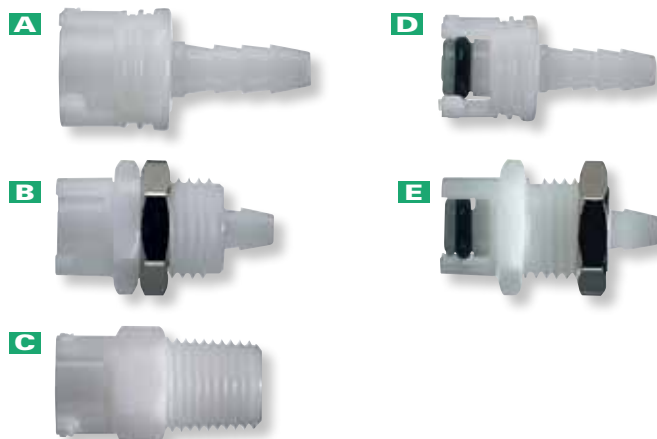
Able to handle 1/16" inner-diameter tubing, these fittings offer a more secure connection alternative to luer fittings. Fittings halves engage and seal with a twist. Once engaged, the coupling allows the tubing to rotate freely to help prevent kinked tubing and accidental disconnections.

For a complete coupling, order one fitting body and one insert. As an alternative, complete couplings are available below.

Note: All acetal fittings on this page are available in black as well as natural white. Please contact an Application Specialist for more information.

Find MORE!

Flexible tubing is available in sizes from 0.19 mm ID to 1 1/2" ID. For our complete selection of tubing, see pages 1823-1829.



Specifications

Body material	Acetal	Brass	Polypropylene (PP)	Polycarbonate (PC)
Color	Natural white	Chrome and black	Almond	Purple tint
Locking sleeve	Acetal	Acetal	Acetal	Polycarbonate
Valve	Acetal	Acetal	Acetal	Acetal
Valve spring	316 SS	316 SS	316 SS	316 SS
O-ring	Buna N	Buna N	EPDM	Buna N
Temperature range	-40 to 180°F (-40 to 82°C)	-40 to 180°F (-40 to 82°C)	32 to 180°F (0 to 82°C)	-40 to 160°F (-40 to 71°C)



Fitting Bodies (Female Fitting Halves)

A Hose Barb Bodies

Catalog number	Tube ID	Length	Material	Price/pk of 10
Valved fittings				
TW-06363-55	1/16"	0.90"	Acetal	
TW-06363-61	3 mm	1.00"		
TW-06363-57	1/8"	0.90"		
Straight-through fittings				
TW-06363-54	1/16"	0.75"	Acetal	
TW-06363-59	3 mm	1.00"		
TW-06363-56	1/8"	0.90"		
TW-06363-62	1/16"	0.75"	PP	
TW-06363-86	1/8"	0.90"	PC	

B Panel-Mount Hose Barb Bodies

Catalog number	Tube ID	Length	Material	Price/pk of 10
Valved fittings				
TW-06363-67	1/16"	0.90"	Acetal	
TW-06363-63	3 mm	1.00"		
TW-06363-69	1/8"	0.90"		
Straight-through fittings				
TW-06363-66	1/16"	0.75"	Acetal	
TW-06363-88	1/8"	1.00"		
TW-06363-78	1/8"	0.90"		
TW-06363-76	1/16"	0.75"	PP	
TW-06363-97	3 mm	0.75"	PC	

C Threaded Adapter Bodies

Catalog number	NPT (M)	Length	Material	Price/pk of 10
Valved fittings				
TW-06363-75	1/8"	0.86"	Acetal	
Straight-through fittings				
TW-06363-66	1/8"	0.86"	Acetal	
TW-06363-76	1/8"	0.86"	PP	

Fitting Inserts (Male Fitting Halves)

D Hose Barb Inserts

Catalog number	Tube ID	Length	Material	Price/pk of 10
Straight-through fittings				
TW-06363-50	1/16"	0.75"	Acetal	
TW-06363-65	3 mm	0.80"		
TW-06363-52	1/8"	0.90"		
TW-06363-77	1/8"	0.90"	Brass	
TW-06363-58	1/16"	0.75"	PP	
TW-06363-60	1/8"	0.90"		
TW-06363-83	1/16"	0.75"		
TW-06363-84	1/8"	0.90"	PC	

E Panel-Mount Hose Barb Inserts

Catalog number	Tube ID	Length	Material	Price/pk of 10
Straight-through fittings				
TW-06363-70	1/16"	0.75"	Acetal	
TW-06363-71	3 mm	0.80"		
TW-06363-72	1/8"	0.90"		
TW-06363-81	1/8"	0.90"	Brass	
TW-06363-82	1/8"	0.90"	PP	
TW-06363-80	1/16"	0.75"		

Hose Barb Complete Couplings (not shown)

Catalog number	Tube ID	Length	Material	Price/pk of 10
Valved fittings				
TW-06363-87	1/16"	1.46"	Acetal	
TW-06363-96	3 mm	1.62"		
TW-06363-92	1/8"	1.61"		
Straight-through fittings				
TW-06363-88	1/16"	1.32"	Acetal	
TW-06363-95	3 mm	1.62"		
TW-06363-91	1/8"	1.61"		
TW-06363-89	1/16"	1.32"	PP	
TW-06363-93	1/8"	1.61"		
TW-06363-90	1/16"	1.32"	PC	
TW-06363-94	1/8"	1.61"		



Fittings

Quick-Disconnect, Non-Spill / Polysulfone

CPC Non-Spill Quick-Disconnect Couplings

As little as 0.025 mL spillage

The patented design of these non-spill series of couplings ensure minimal leaks and air inclusions in your process line—protects process purity and minimizes loss due to accidental disconnects. The NS2 series non-spill couplings feature a twist-to-connect design for worry-free fit. The NS4 and NS6 series non-spill couplings confirm secure engagement with an audible click. Choose one body and one insert, each from the same coupling series (NS2, NS4, or NS6) for a fitting that will work in multiple applications.



Specifications

Series	NS2	NS4	NS6
Body material	Glass-filled polypropylene		
O-ring material	EPDM		
Temp range	32 to 120°F (0 to 49°C)	32 to 160°F (0 to 71°C)	
Max pressure	45 psi (3.1 bar)	120 psi (8.3 bar)	
Max flow	3.75 GPM (14.2 LPM)	3.75 GPM (14.2 LPM)	13.0 GPM (49.2 LPM)
Spillage	<0.025 mL	<0.10 mL	<0.3 mL

Bodies (Female coupling halves)

Catalog number	Series	Size	Price
In-line barbed bodies			
TW-31604-50	NS2	1/8" ID	
TW-31604-51	NS2	1/4" ID	
TW-31603-21	NS4	1/8" ID	
TW-31603-23	NS4	1/4" ID	
TW-31603-31	NS4	3/8" ID	
TW-31603-22	NS6	3/8" ID	
TW-31603-24	NS6	1/2" ID	
Panel-mount barbed bodies			
TW-31604-52	NS2	1/8" ID	
TW-31604-53	NS2	1/4" ID	
In-line compression bodies			
TW-31604-54	NS2	1/4" OD	
TW-31603-25	NS4	3/8" OD	
TW-31603-20	NS6	1/2" OD	
Panel-mount compression bodies			
TW-31604-55	NS2	1/4" OD	
Threaded bodies			
TW-31604-56	NS2	1/8" NPT	
TW-31603-27	NS4	1/4" NPT	
TW-31603-26	NS6	1/2" NPT	

Inserts (Male coupling halves)

Catalog number	Series	Size	Price
In-line barbed inserts			
TW-31604-57	NS2	1/8" ID	
TW-31604-58	NS2	1/4" ID	
TW-31603-38	NS4	1/8" ID	
TW-31603-40	NS4	1/4" ID	
TW-31603-35	NS4	3/8" ID	
TW-31603-32	NS6	3/8" ID	
TW-31603-34	NS6	1/2" ID	
Panel-mount barbed inserts			
TW-31603-42	NS4	1/8" ID	
TW-31603-44	NS4	1/4" ID	
TW-31603-46	NS4	3/8" ID	
TW-31604-51	NS6	3/8" ID	
TW-31603-48	NS6	1/2" ID	
In-line compression inserts			
TW-31604-59	NS2	1/4" OD	
TW-31603-49	NS4	3/8" OD	
TW-31603-30	NS6	1/2" OD	
Panel-mount compression inserts			
TW-31603-47	NS4	3/8" OD	
TW-31603-45	NS6	1/2" OD	
Threaded inserts			
TW-31604-60	NS2	1/8" NPT	
TW-31603-29	NS4	1/4" NPT	
TW-31603-36	NS6	1/2" NPT	

[TW-31603-61](#) Optional panel-mount gasket, EPDM; for NS2 series
[TW-31603-18](#) Optional panel-mount gasket, EPDM; for NS4 series
[TW-31603-19](#) Optional panel-mount gasket, EPDM; for NS6 series

CPC Polysulfone Quick-Disconnect Couplings

USP Class VI compliant

- Automatic shutoff valves
- BSE/TSE-free material

For a complete quick-disconnect fitting, order both a body and insert separately below. Body and seal materials are made of USP Class VI-compliant and BSE/TSE-free materials. An audible click when the body and insert are coupled confirms a secure, leak-free connection. The automatic shutoff valve closes off the flow path at disconnection, protecting valuable media while eliminating the need for pinch clamps. Thumb latch enables easy one-handed operation.

Specifications

Body material	Polysulfone
O-ring material	Silicone, platinum-cured
Valve spring	316 stainless steel
Temperature range	-40 to 280°F (-40 to 138°C)
Pressure range	Vacuum to 125 psi (8.62 bar)
Sterilization	Autoclave or gamma irradiation

A Hose Barb Bodies

Catalog number	Tubing ID	Price/pk of 10
TW-31313-01	1/4"	
TW-31313-02	3/8"	
TW-31313-03	1/2"	

B Hose Barb Inserts

Catalog number	Tubing ID	Price/pk of 10
TW-31313-21	1/4"	
TW-31313-22	3/8"	
TW-31313-23	1/2"	



Fittings

Quick-Disconnect, SRC / SnapQuik / Side Latch

CPC Quick-Click SRC Connectors

The quick-click SRC connectors eliminate the potential for mistakenly mating with a luer line, making it easier to manage multiple connections. To mate, simply press the insert into the body; an audible click confirms a secure connection. The innovative design allows the insert to rotate inside the coupling body, even when engaged, to prevent accidental disconnects or kinked tubing. The coupling is made from medical-grade polypropylene, meets the stringent requirements of USP Class VI, and passes all MEM elution, agarose overlay, hemolysis in vitro, and USP physicochemical tests.

Specifications

Body material	Polypropylene
Seal material	USP Class VI overmolded thermoplastic elastomer (TPE)
Temp range	32 to 120°F (0 to 49°C)
Pressure	Vacuum to 25 psi (1.7 bar)
Sterilization	EtO, gamma, e-beam



31312-03

Complete Couplings (includes body and insert)

Catalog number	Tubing ID	Price/pk of 25
TW-31312-03	1/8"	
TW-31312-04	3/16"	

CPC SnapQuik™ Connectors

High-flow fluid transfer in a small profile

The SnapQuik is the ideal quick-disconnect fitting for your small bore applications. The break-away latch mechanism allows for quick and easy disconnection, while the internal latch design allows for a streamlined exterior that is easy to clean. The audible click assures a reliable connection is made. A complete coupling consists of one body and one insert.

Specifications

Body material	Acetal
Seal material	Buna N
Temp range	32 to 122°F (0 to 50°C)
Pressure	Vacuum to 15 psi (1.0 bar)
Sterilization	Autoclave or ETO

NEW



31312-80

31312-90

Bodies (female coupling halves)

Catalog number	Tubing ID	Price/pk of 25
TW-31312-80	3/32"	
TW-31312-81	1/8"	

Inserts (male coupling halves)

Catalog number	Tubing ID	Price/pk of 25
TW-31312-90	3/32"	
TW-31312-91	1/8"	

Cole-Parmer Side-Latch Quick Connectors

Features an audible click—every hookup is simple, safe, and secure!

These reusable, cost-effective connectors are designed to meet your requirements for small-bore applications in all fluid delivery applications. Manufactured from durable nylon with a Buna N O-ring seal, these connectors are offered in contrasting colors. For a complete coupling, order one female and one male connector.

Specifications

Body material	Nylon
O-ring material	Buna N
Temperature range	-9.4 to 180°F (-23 to -82°C)
Pressure	up to 25 psi (1.72 bar)
Sterilization	Ethylene oxide or gamma irradiation

Catalog number	Tube ID	Color	Price/pk of 25
Female quick-connect bodies			
TW-30800-82	1/8"	Gray	
TW-30800-84	1/8"	Dark blue	
TW-30800-86	3/16"	Gray	
TW-30800-88	3/16"	Dark blue	
Male quick-connect inserts			
TW-30800-90	1/8"	Gray	
TW-30800-92	1/8"	Dark blue	
TW-30800-94	3/16"	Gray	
TW-30800-96	3/16"	Dark blue	



30800-82



CPC AseptiQuik™ Connectors

Provide easy, secure sterile connections even in nonsterile environments

- Quick, three-step connection process reduces risk of operator error
- Large housing size allows easy installation



Manufactured from sturdy polycarbonate, these connectors come clean and are for single-use and sanitary applications. Use connectors with filters, tubing, and process containers to create systems for upstream or downstream processes.

Simply fit the connector half in your tubing line. Push the male and female connectors together; an audible snap confirms a tight connection. Align and snap membrane connectors together; pull from connector. Twist blue lock ring clockwise to hear another audible click. Alignment of the ring rib with the body's arrow indicator confirms final, secure connection. Use high temperature fittings to sterilize via autoclave. Now three series to meet your needs; standard, S-low flow (genderless), and X-high flow.

Specifications

	Standard	High Temperature
Body material		Polycarbonate
Seal material		Platinum-cured silicone
Temp range		39 to 104°F (4 to 40°C)
Max pressure		60 psi (4.4 bar)
Sterilization	Gamma irradiation	Autoclave or gamma irradiation

CPC ChemQuik® Quick-Disconnect Couplings

- 100% metal-free couplings are ideal for ultrapure fluids, deionized water, and aggressive chemical applications

These quick-disconnect couplings provide easy single-handed disconnection. Valves provide flow shut-off. For a complete coupling, order one body and one insert of the same size.



Specifications

Body material	Polypropylene
O-rings and springs	Viton® seals; PEEK springs
Temperature range	32 to 225°F (0 to 107°C)
Max pressure	80 psi (5.5 bar)
Cv	1.6

In-line coupling inserts



AseptiQuik-Standard

Bodies (female coupling halves)

Cat. no.	Description	Size	Price
TW-20002-90	Hose barb	3/8" ID	
TW-20002-91	Hose barb high temperature	3/8" ID	
TW-20002-86	Hose barb	1/2" ID	
TW-20002-87	Hose barb high temperature	1/2" ID	

Inserts (male coupling halves)

Cat. no.	Description	Size	Price
TW-20002-94	Hose barb	3/8" ID	
TW-20002-95	Hose barb high temperature	3/8" ID	
TW-20002-88	Hose barb	1/2" ID	
TW-20002-89	Hose barb high temperature	1/2" ID	

AseptiQuik S-low flow, genderless

Cat. no.	Description	Size	Price
TW-20002-92	Hose barb high temperature	1/8" ID	
TW-20002-93		1/4" ID	
TW-20002-96	Sanitary high temperature	3/4" Mini Tri-Clamp	

AseptiQuik X-high flow

Bodies (female coupling halves)

Cat. no.	Description	Size	Price
TW-30003-21	Hose barb	3/4" ID	
TW-30003-22	Hose barb high temperature		
TW-30003-23	Hose barb	1"	
TW-30003-24	Hose barb high temperature	1 1/2"	
TW-30003-25	Sanitary		
TW-30003-26	Sanitary high temperature	Tri-Clamp	

Inserts (male coupling halves)

Cat. no.	Description	Size	Price
TW-30003-31	Hose barb	3/4" ID	
TW-30003-32	Hose barb high temperature		
TW-30003-33	Hose barb	1"	
TW-30003-34	Hose barb high temperature	1 1/2"	
TW-30003-35	Sanitary		
TW-30003-36	Sanitary high temperature	Tri-Clamp	

In-Line Coupling Bodies

(Female Coupling Halves)

Catalog number	Size	Material	Price
Flared fittings, valved			
TW-31603-15	1/4" OD	PP	
TW-31603-00	3/8" OD		
TW-31603-01	1/2" OD		
Pipe adapters, valved			
TW-31603-02	3/8" NPT(M)	PP	

Panel-Mount Coupling Bodies

(Female Coupling Halves)

Catalog number	Size	Material	Price
Flared fittings, valved			
TW-31603-16	1/4" OD	PP	
TW-31603-03	3/8" OD		
TW-31603-04	1/2" OD		
Pipe adapters, valved			
TW-31603-05	3/8" NPT(M)	PP	

In-Line Coupling Inserts

(Male Coupling Halves)

Catalog number	Size	Material	Price
Flared fittings, valved			
TW-31603-17	1/4" OD	PP	
TW-31603-06	3/8" OD		
TW-31603-07	1/2" OD		
Pipe adapters, valved			
TW-31603-08	3/8" NPT(M)	PP	

CPC Steam-in-Place Connectors

One disposable connector for steam sterilization and microbial process

- Ensures a sterile connection
- Reduces downtime and cleaning expenses

As part of a single-use system, these disposable connectors enhance the sterility of your bioprocessing line. The innovative product design allows for a one-step process for sterilization and media transfer while eliminating dead spots, reducing the number of connections, and eliminating the need for a laminar flow hood. Terminations on these connectors are set to industry standards for bioreactors and are available in popular sizes of flexible tubing. All wetted surfaces meet requirements for USP Class VI, MEM elution, hemolysis in vitro, and physicochemical tests. All units are made of animal-free medical-grade polysulfone. Choose from two designs: the original Steam-Thru® Connection and Steam-Thru II.



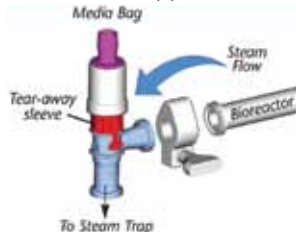
31604-10

The original Steam-Thru connectors feature a three-port design that allows steam to pass directly through the power ports to "steam on" to stainless equipment. Once the SIP cycle is completed, remove the tear-away sleeve to actuate the valve and create a sterile flow path. Once actuated, the connection cannot be reversed because valve actuation punctures the internal membrane to allow flow of media. When the process is complete, the connector may be safely disposed.

The Steam-Thru II connectors offer the additional benefit of both "steam on" and "steam off" functionality. The valve can return to the steam position to allow a second steam cycle after media transfer.

TECHNICAL info!

Steam Process (1)



Steam flows from the bioreactor through the connector to sterilize the connection. With the tear-away sleeve in place, the transfer of fluid to or from the bioreactor is prevented.

Flow Process (2)



When the tear-away sleeve is removed and the connector is actuated, the connection to the steam trap is disabled and the media flow bath to or from the bioreactor is accessible.

Specifications

Pressure rating

Steam position: 30 psi (2.1 bar)
Flow position: vacuum to 20 psi (1.4 bar)

Temperature rating

Steam position: 266°F (130°C) for up to 60 min
Flow position: 39 to 104°F (4 to 40°C)

Materials

Body: polysulfone body
Sleeve: PE (31604-10 thru -16) or PC (31604-18 thru -24)
Membrane: silicone membrane



Catalog number	Steam inlet	Connections		Sterilization methods ¹	Price
		Bioreactor	Hose barb		
Steam-Thru connectors (single cycle)					
TW-31604-10	3/4" Tri-Clamp®	3/4" Tri-Clamp	1/2"	SIP, G	
TW-31604-12			3/8"		
TW-31604-14	3/4" Tri-Clamp	1 1/2" Tri-Clamp	1/2"	SIP, G	
TW-31604-16			3/8"		
TW-31604-18	3/4" Tri-Clamp	3/4" Tri-Clamp	1/2"	SIP, G, A	
TW-31604-20			3/8"		
TW-31604-22	3/4" Tri-Clamp	1 1/2" Tri-Clamp	1/2"	SIP, G, A	
TW-31604-24			3/8"		
Steam-Thru II (two cycle)					
TW-31604-36	3/4" Tri-Clamp	3/4" Tri-Clamp	1/2"	SIP, G	
TW-31604-38		1 1/2" Tri-Clamp	3/8"		

¹SIP = steam-in-place process up to 266°F (130°C) for 60 minutes; G = gamma radiation up to 50 kGy for one cycle; A = autoclave at 265°F (128°C) for 30 minutes up to two cycles.

CPC Quick-Disconnect Sanitary Couplings

Attach directly to your sanitary hardware assemblies!

- USP Class IV materials
- Fully sterilizable

These couplings allow you to integrate disposables with your existing stainless steel processing equipment. Both couplings and inserts are available with standard sanitary terminations to attach to your system with a sanitary gasket and tri-clover clamps. Choose from polysulfone (PSF) or 316 stainless steel (SS) inserts to mate to polysulfone bodies. All models feature USP Class VI platinum-cured silicone gaskets. Mix and match these bodies and inserts with the polysulfone quick-disconnect coupling elements on page 552 for greater flexibility in your process system with fittings either standard or large.

Specifications

Body material	PSF or 316 stainless steel
O-ring material	USP Class VI platinum-cured silicone
Temp range	-40 to 300°F (-40 to 149°C)
Max pressure	60 psi (4.1 bar)
Sterilization	PSF: autoclave, gamma, ETO, or ebeam SS: autoclave or gamma irradiation

Bodies (Female Coupling Halves)

Catalog number	Size	Compatible	Material	Price
TW-31604-26	3/4" sanitary	Large	PSF	
TW-31604-28	1" sanitary	Standard		



31604-28



31604-26



31604-34



31311-71

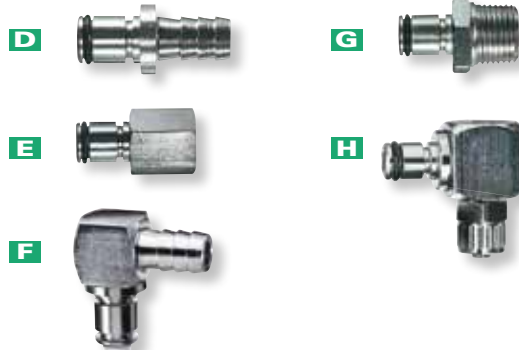
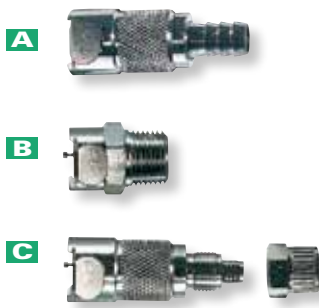
Inserts (Male Coupling Halves)

Catalog number	Size	Compatible	Material	Price
TW-31311-71	1/4" tubing ID	Standard	PSF	
TW-31311-72	3/8" tubing ID			
TW-31311-73	1/2" tubing ID	Large	SS	
TW-31604-30	3/4" sanitary	Standard		
TW-31604-32	1" sanitary	Large		
TW-31604-34	1 1/2" sanitary			

CPC Metal Quick-Disconnect Couplings

Rugged fittings are ideal for pressure and vacuum applications

These quick-disconnect fittings consist of two fitting halves—order coupling bodies (female halves) and inserts (male halves) with the same flow size. Fittings withstand pressures from vacuum to 250 psi (17.2 bar), temperatures from -40 to 180°F (-40 to 82°C). In addition to vacuum and pressure applications, these fittings can be used for liquids. Made of chrome-plated brass with stainless steel springs and latch. Valved fittings have acetal shutoff valves that seal the flow path when fitting halves are disconnected.



Quick-Disconnect Bodies

(Female Fitting Halves)

A Hose Barbs Bodies

Catalog number	Tube ID	Flow size	Length	Price
Valved fittings				
TW-31404-30	1/8"	1/8"	1.65"	
TW-31404-31	3/16"	1/8"	1.65"	
TW-31404-32	1/4"	1/8"	1.85"	
TW-31403-20	1/4"	1/4"	2.00"	
TW-31403-21	5/16"	1/4"	2.00"	
TW-31403-22	3/8"	1/4"	2.00"	
Straight-through fittings				
TW-31404-10	1/8"	1/8"	1.65"	
TW-31404-11	3/16"	1/8"	1.65"	
TW-31404-12	1/4"	1/8"	1.85"	
TW-31403-25	1/4"	1/4"	2.00"	
TW-31403-26	5/16"	1/4"	2.00"	
TW-31403-27	3/8"	1/4"	2.00"	

B NPT(M) Threaded Adapter Bodies

Catalog number	NPT(M)	Flow size	Length	Price
Valved fittings				
TW-31404-20	1/8"	1/8"	1.10"	
TW-31404-21	1/4"	1/8"	1.10"	
TW-31403-00	1/4"	1/4"	1.15"	
TW-31403-01	3/8"	1/4"	1.15"	
Straight-through fittings				
TW-31404-00	1/8"	1/8"	1.10"	
TW-31404-01	1/4"	1/8"	1.10"	
TW-31403-05	1/4"	1/4"	1.15"	
TW-31403-06	3/8"	1/4"	1.15"	

C Compression Fitting Bodies

Catalog number	Tube OD	Flow size	Length	Price
Valved fittings				
TW-31404-29	1/4"	1/8"	1.77"	
TW-31403-10	1/4"	1/4"	1.87"	
TW-31403-11	3/8"	1/4"	2.00"	
Straight-through fittings				
TW-31404-09	1/4"	1/8"	1.77"	
TW-31403-15	1/4"	1/4"	1.87"	
TW-31403-16	3/8"	1/4"	2.00"	

Quick-Disconnect Inserts

(Male Fitting Halves)

D Hose Barb Inserts

Catalog number	Tube ID	Flow size	Length	Price
Valved fittings				
TW-31404-71	1/8"	1/8"	1.55"	
TW-31404-72	3/16"	1/8"	1.75"	
TW-31404-73	1/4"	1/8"	1.58"	
TW-31403-40	1/4"	1/4"	1.85"	
TW-31403-41	5/16"	1/4"	1.85"	
TW-31403-42	3/8"	1/4"	1.68"	
Straight-through fittings				
TW-31404-51	1/8"	1/8"	1.55"	
TW-31404-52	3/16"	1/8"	1.75"	
TW-31404-53	1/4"	1/8"	1.58"	
TW-31403-45	1/4"	1/4"	1.85"	
TW-31403-46	5/16"	1/4"	1.85"	
TW-31403-47	3/8"	1/4"	1.68"	

E NPT(F) Threaded Adapter Inserts

Catalog number	NPT(F)	Flow size	Length	Price
Valved fittings				
TW-31404-62	1/8"	1/8"	1.57"	
TW-31403-63	1/4"	1/8"	1.72"	
TW-31403-52	1/4"	1/4"	1.75"	
Straight-through fittings				
TW-31404-43	1/8"	1/8"	0.95"	
TW-31404-44	1/4"	1/8"	1.15"	
TW-31403-57	1/4"	1/4"	1.25"	

F Hose Barb Elbow Inserts

Catalog number	Tube ID	Flow size	Length	Price
Valved fittings				
TW-31404-77	1/8"	1/8"	1.18"	
TW-31404-78	1/4"	1/8"	1.18"	
TW-31403-92	1/4"	1/4"	1.28"	
TW-31403-93	3/8"	1/4"	1.28"	
Straight-through fittings				
TW-31404-57	1/8"	1/8"	1.18"	
TW-31404-58	1/4"	1/8"	1.18"	
TW-31403-97	1/4"	1/4"	1.28"	
TW-31403-98	3/8"	1/4"	1.28"	

MORE info!

For a complete coupling, order a body (female half) and insert (male half) below, making sure to match the flow size of each.

G NPT(M) Threaded Adapter Inserts

Catalog number	NPT(M)	Flow size	Length	Price
Valved fittings				
TW-31404-60	1/8"	1/8"	1.33"	
TW-31404-61	1/4"	1/8"	1.30"	
TW-31403-50	1/4"	1/4"	1.53"	
TW-31403-51	3/8"	1/4"	1.40"	
Straight-through fittings				
TW-31404-40	1/8"	1/8"	1.03"	
TW-31404-41	1/4"	1/8"	1.13"	
TW-31403-55	1/4"	1/4"	1.25"	
TW-31403-56	3/8"	1/4"	1.25"	

H Compression Elbow Inserts

Catalog number	Tube OD	Flow size	Length	Price
Valved fittings				
TW-31404-75	5/32"	1/8"	1.18"	
TW-31404-76	1/4"	1/8"	1.18"	
TW-31403-90	1/4"	1/4"	1.28"	
TW-31403-91	3/8"	1/4"	1.28"	
Straight-through fittings				
TW-31404-55	5/32"	1/8"	1.18"	
TW-31404-56	1/4"	1/8"	1.18"	
TW-31403-95	1/4"	1/4"	1.28"	
TW-31403-96	3/8"	1/4"	1.28"	

I Compression Inserts

Catalog number	Tube OD	Flow size	Length	Price
Valved fittings				
TW-31404-68	5/32"	1/8"	1.53"	
TW-31404-69	1/4"	1/8"	1.45"	
TW-31404-70	3/8"	1/8"	1.40"	
TW-31403-30	1/4"	1/4"	1.72"	
TW-31403-31	3/8"	1/4"	1.68"	
Straight-through fittings				
TW-31404-48	5/32"	1/8"	1.13"	
TW-31404-49	1/4"	1/8"	1.15"	
TW-31404-50	3/8"	1/8"	1.30"	
TW-31403-35	1/4"	1/4"	1.25"	
TW-31403-36	3/8"	1/4"	1.38"	

J UNF(F) Threaded Adapter Inserts

Catalog number	Thread (UNF)	Flow size	Length	Price
Valved fitting				
TW-31404-74	10-32	1/8"	1 3/8"	
Straight-through fitting				
TW-31404-79	10-32	1/8"	1 3/8"	

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Fittings and Adapters

- Meet NSF and FDA requirements for food-grade applications
- Quick-disconnect convenience for a wide variety of tubing material—including soft metals!

A single fitting offers secure connections and quick disconnection—no need to purchase two fitting halves. Simply push tubing past the O-ring to the internal tube stop—steel teeth on the collet grip tubing for leakproof connections. To disconnect, press collet against fitting body to disengage steel teeth—tubing slides right out.

Fittings work with semirigid plastic (polypropylene, polyethylene, nylon) and soft metal (brass, copper, mild steel) tubing. To connect flexible tubing such as Tygon® or silicone, order soft tube supports “X” on page 561.

Adapters let you permanently modify basic fittings for customized installations. Tube-to-hose stems “S” and elbows “T” adapt fittings for braided tubing.

Specifications

Materials: acetal body, nitrile O-ring, and acetal/stainless steel collet

Temperature range: -14 to 167°F (-25 to 75°C) for air; 33 to 140°F (0 to 60°C) for water

Max pressure: 150 psi (10.3 bar) for air, 250 psi (17.2 bar) for water

Max vacuum: 30" Hg (762 mm Hg)

Sterilization: autoclave or EtO

A Male Threaded Fittings

Catalog number	Tube OD	NPT(M)	Price/pk of 10
TW-34006-02	1/4"	1/8"	
TW-34006-03	1/4"	1/4"	
TW-34006-04	3/8"	1/8"	
TW-34006-05	3/8"	1/4"	
TW-34006-06	3/8"	3/8"	
TW-34006-07	3/8"	1/2"	
TW-34006-08	1/2"	3/8"	
TW-34006-09	1/2"	1/2"	
TW-34006-48	5/32"	1/8"	
TW-34006-49	5/32"	1/4"	
TW-34006-28	3/16"	1/8"	
TW-34006-29	1/4"	3/8"	
TW-34006-50	5/16"	1/8"	
TW-34006-51	5/16"	1/4"	
TW-34006-52	5/16"	3/8"	

B Straight Unions

Catalog number	Tube OD	Price/pk of 10
TW-34006-17	1/4"	
TW-34006-18	3/8"	
TW-34006-19	1/2"	
TW-34006-57	5/32"	
TW-34006-32	3/16"	
TW-34006-58	5/16"	

C Reducing Unions

Catalog number	Tube OD	Tube OD	Price/pk of 10
TW-34006-22	1/4"	3/16"	
TW-34006-23	5/16"	1/4"	
TW-34006-24	3/8"	3/16"	
TW-34006-25	3/8"	1/4"	
TW-34006-26	3/8"	5/16"	
TW-34006-27	1/2"	3/8"	
TW-34006-61	5/16"	5/32"	
TW-34006-36	5/16"	3/16"	
TW-34006-37	1/2"	5/16"	

D 34006-15



G 34006-45



A 34006-04



E 34006-12



H 34006-41



B 34006-18



F 34006-21



I 34006-47



C 34006-24



J 34006-34



D Union Elbows

Catalog number	Tube OD	Price/pk of 10
TW-34006-14	1/4"	
TW-34006-15	3/8"	
TW-34006-16	1/2"	
TW-34006-55	5/32"	
TW-34006-31	3/16"	
TW-34006-56	5/16"	

E Union Tees

Catalog number	Tube OD	Price/pk of 10
TW-34006-11	1/4"	
TW-34006-12	3/8"	
TW-34006-13	1/2"	
TW-34006-53	5/32"	
TW-34006-30	3/16"	
TW-34006-54	5/16"	

F Bulkhead Unions

Catalog number	Tube OD	Price/pk of 10
TW-34006-20	1/4"	
TW-34006-21	3/8"	
TW-34006-35	1/2"	
TW-34006-59	5/32"	
TW-34006-33	3/16"	
TW-34006-60	5/16"	

G Two-Way Dividers

Catalog number	Tube OD	Tube ID	Price/pk of 10
TW-34006-63	5/16"	5/16"	
TW-34006-45	3/8"	3/8"	
TW-34006-46	3/8"	5/16"	

H Reducing Elbows

Catalog number	Tube OD	Tube OD	Price/pk of 10
TW-34006-62	5/16"	5/32"	
TW-34006-38	5/16"	3/16"	
TW-34006-39	5/16"	1/4"	
TW-34006-40	3/8"	3/16"	
TW-34006-41	3/8"	1/4"	
TW-34006-42	3/8"	5/16"	
TW-34006-43	1/2"	5/16"	
TW-34006-44	1/2"	3/8"	

I Reducing Tees

Catalog number	Tube OD	Tube OD	Price/pk of 10
TW-34006-47	3/8"	1/4"	
TW-34006-01	1/2"	3/8"	

J Reducing Bulkheads

Catalog number	Tube OD	Tube OD	Price/pk of 10
TW-34006-34	3/8"	1/4"	

K 34007-17



N 34007-22



Q 34006-97



S 34006-80



U 34006-94



X 34007-40



L 34007-19



R 34006-77



T 34006-85



V 34006-67



Y 34006-89



M 34007-20



O 34007-26



P 34006-64



TECHNICAL info!

You can build your own permanent configuration by combining fittings with adapters. For example, combine union adapter with a male pipe thread adapter to create a swivel elbow adapter.



D Union elbow fitting + **V** Male pipe thread adapter = Swivel elbow adapter

K Female Threaded Fittings

Catalog number	Tube OD	NPT(F)	Price/pk of 10
TW-34007-16	1/4"	1/4"	
TW-34007-17	3/8"	1/4"	

L End Stops

Catalog number	Tube OD	Price/pk of 10
TW-34007-18	1/4"	
TW-34007-19	3/8"	

M Cross

Catalog number	Tube OD	Price/pk of 10
TW-34007-20	3/8"	

N Fixed Elbows

Catalog number	Tube OD	Tube ID	Price/pk of 10
TW-34007-21	1/4"	1/8"	
TW-34007-22	1/4"	1/4"	
TW-34007-23	1/4"	3/8"	
TW-34007-25	3/8"	3/8"	

O Three-Way Divider

Catalog number	Tube OD	Tube OD	Price/pk of 10
TW-34007-26	1/2"	3/8"	

P Check Valve

Catalog number	Tube OD	Price/pk of 10
TW-34006-64	1/4"	

Q Collet Covers

Catalog number	Tube OD	Price/pk of 10
TW-34007-34	5/32"	
TW-34006-95	3/16"	
TW-34006-96	1/4"	
TW-06378-83	5/16"	
TW-34006-97	3/8"	
TW-34006-98	1/2"	

R Elbow Adapters

Catalog number	Stem OD	Tube OD	Price/pk of 10
TW-34006-76	1/4"	1/4"	
TW-34006-77	3/8"	3/8"	
TW-34006-78	1/2"	1/2"	
TW-34007-35	5/32"	5/32"	
TW-34006-99	3/16"	3/16"	
TW-34007-36	5/16"	5/16"	
TW-34007-01	3/8"	3/16"	
TW-34007-02	3/8"	1/4"	
TW-34007-03	3/8"	5/16"	

S Tube-to-Hose Adapters

Catalog number	Stem OD	Tube ID	Price/pk of 10
TW-34006-79	1/4"	1/4"	
TW-34006-80	3/8"	1/4"	
TW-34006-81	3/8"	3/8"	
TW-34006-82	1/2"	3/8"	
TW-34006-83	1/2"	1/2"	
TW-34007-04	1/4"	3/16"	
TW-34007-05	1/4"	5/16"	
TW-34007-06	5/16"	3/16"	
TW-34007-07	5/16"	1/4"	
TW-34007-37	5/16"	5/16"	
TW-34007-08	5/16"	3/8"	
TW-34007-09	3/8"	5/16"	
TW-34007-11	3/8"	1/2"	

T Tube-to-Hose Elbow Adapters

Catalog number	Stem OD	Tube ID	Price/pk of 10
TW-34006-84	1/4"	1/4"	
TW-34006-85	3/8"	1/4"	
TW-34007-13	1/4"	5/16"	
TW-34007-12	5/16"	5/16"	
TW-34007-15	3/8"	5/16"	

U Enlarger

Catalog number	Stem OD	Tube ID	Price/pk of 10
TW-34006-94	5/16"	3/8"	

V Male Threaded Adapters

Catalog number	Stem OD	NPT(M)	Price/pk of 10
TW-34006-66	1/4"	1/8"	
TW-34006-67	1/4"	1/4"	
TW-34006-68	3/8"	1/4"	
TW-34006-69	3/8"	3/8"	
TW-34006-70	1/2"	3/8"	
TW-34006-71	1/2"	1/2"	
TW-34007-27	5/32"	1/8"	
TW-34007-28	5/32"	1/4"	
TW-34006-86	3/16"	3/8"	
TW-34007-29	5/16"	1/8"	
TW-34007-30	5/16"	1/4"	
TW-34007-31	5/16"	3/8"	

W Plugs

Catalog number	Stem OD	Price/pk of 10
TW-34006-73	1/4"	
TW-34006-74	3/8"	
TW-34006-75	1/2"	
TW-34007-32	5/32"	
TW-34006-93	3/16"	
TW-34007-33	5/16"	

X Soft Tube Supports

Catalog number	Stem OD	Tube OD	Price/pk of 10
TW-34007-40	5/16"	1/4"	
TW-34007-38	3/8"	5/16"	
TW-34007-39	1/2"	3/8"	

Y Reducers

Catalog number	Stem OD	Tube OD	Price/pk of 10
TW-34006-87	3/16"	5/32"	
TW-34006-88	5/16"	3/16"	
TW-34006-65	3/16"	1/4"	
TW-34006-89	3/8"	3/16"	
TW-34006-90	3/8"	1/4"	
TW-34006-91	1/2"	5/16"	
TW-34006-92	1/2"	3/8"	
TW-34006-72	1/2"	5/16"	

Polypropylene (PP) and PVDF Sanitary Clamp Fittings

- Meet USP Class VI for pharmaceutical use and FDA, USDA, and 3A standards for food contact
- All fittings are compatible with Tri-Clamp® fittings
- Excellent chemical resistance; low leachable characteristics

Note: Though both materials may be autoclaved, PVDF tolerates high temperatures better than PP does and will perform more consistently after repeated autoclaving.



Clamp size	PP		PVDF	
	Cat. no.	Price	Cat. no.	Price
A Eccentric reducers				
1½" x ¾" mini	TW-31805-01		TW-31808-01	
B Concentric reducers				
1" ladish x ¾" mini	TW-31805-05		TW-31808-05	
1½" x ¾" mini	TW-31805-06		TW-31808-06	
1½" x 1" ladish	TW-31805-10		TW-31808-10	
2" x 1" ladish	TW-31805-11		TW-31808-11	
2" x 1½"	TW-31805-14		TW-31808-14	
C Barbed adapters, clamp x tubing ID				
¾" mini x ½"	TW-31805-24		TW-31808-24	
¾" mini x ¼"	TW-31805-25		TW-31808-25	
¾" mini x ⅜"	TW-31805-26		TW-31808-26	
¾" mini x ½"	TW-31805-27		TW-31808-27	
¾" mini x ⅝"	TW-31805-28		TW-31808-28	
¾" mini x ¾"	TW-31805-29		TW-31808-29	
1" ladish x ½"	TW-31805-30		TW-31808-30	
1" ladish x ¼"	TW-31805-31		TW-31808-31	
1" ladish x ⅜"	TW-31805-32		TW-31808-32	
1" ladish x ½"	TW-31805-33		TW-31808-33	
1" ladish x ¾"	TW-31805-34		TW-31808-34	
1" ladish x 1"	TW-31805-35		TW-31808-35	
1½" x 1"	TW-31805-41		TW-31808-41	
2" x 1"	TW-31805-47		TW-31808-47	
D Pipe thread adapters, clamp x NPT(M)				
1" ladish x ½"	TW-31805-56		TW-31808-56	
1" ladish x ¼"	TW-31805-57		TW-31808-57	
1" ladish x ⅜"	TW-31805-58		TW-31808-58	
1" ladish x ½"	TW-31805-59		TW-31808-59	
1" ladish x ¾"	TW-31805-60		TW-31808-60	
1" ladish x 1"	TW-31805-61		TW-31808-61	
1" ladish x 1¼"	TW-31805-62		TW-31808-62	
1" ladish x 1½"	TW-31805-63		TW-31808-63	
1½" x ¾"	TW-31805-68		TW-31808-68	
1½" x 1"	TW-31805-69		TW-31808-69	
1½" x 1¼"	TW-31805-70		TW-31808-70	
1½" x 1½"	TW-31805-71		TW-31808-71	
2" x 1"	TW-31805-77		TW-31808-77	
2" x 1¼"	TW-31805-78		TW-31808-78	
2" x 1½"	TW-31805-79		TW-31808-79	
2" x 2"	TW-31805-80		TW-31808-80	
E Pipe thread adapters, clamp x NPT(F)				
1" ladish x ¾"	TW-31806-04		TW-31809-04	
1" ladish x 1"	TW-31806-05		TW-31809-05	
1½" x 1½"	TW-31806-15		TW-31809-15	
F 90° elbows				
¾" mini	TW-31806-41		TW-31809-41	
1" ladish	TW-31806-42		TW-31809-42	
1½"	TW-31806-43		TW-31809-43	
2"	TW-31806-44		TW-31809-44	
G 45° elbows				
¾" mini	TW-31806-51		TW-31809-51	
1" ladish	TW-31806-52		TW-31809-52	
1½"	TW-31806-53		TW-31809-53	
2"	TW-31806-54		TW-31809-54	
H Standard tees				
¾" mini	TW-31806-61		TW-31809-61	
1" ladish	TW-31806-62		TW-31809-62	
1½"	TW-31806-63		TW-31809-63	
2"	TW-31806-64		TW-31809-64	
I Clamps				
¾" mini	—	—	TW-31811-00	
1" and 1½"	—	—	TW-31811-01	
2"	—	—	TW-31811-02	
2½"	—	—	TW-31811-03	

Specifications



Clamp size	Inner dimension (based on SS tube ID)
¾" mini	⅜"
1" maxi	⅞"
1" ladish†	⅞"
1½"	1⅜"
2"	1⅞"
2½"	2⅜"
3"	2⅞"

†Choose 1" ladish fittings for a direct match with 1" stainless steel sanitary connections.

Chemical resistance

PP: very good PVDF: excellent

Temperature range

PP: 15 to 180°F (-9 to 82°C)
PVDF: -40 to 280°F (-40 to 138°C)

Max pressure

In ambient conditions, using plastic true union style clamp
PP: 125 psi (8.6 bar)
PVDF: 150 psi (10.3 bar)

Sterilization: EtO or autoclave

J Nylon Clamps

Clamp size	Catalog number	Price
½" to ¾"	TW-30508-21	
1" to 1½"	TW-30508-23	
2"	TW-30508-25	
3"	TW-30508-27	
4"	TW-30508-29	

Gaskets (not shown)

Gasket size	Catalog number	Price
Platinum-cured silicone		
¾" mini	TW-30548-00	
1" ladish	TW-30548-02	
1½"	TW-30548-04	
2"	TW-30548-06	
2½"	TW-30548-08	
Viton®		
¾" mini	TW-30548-20	
1" ladish	TW-30548-22	
1½"	TW-30548-24	
2"	TW-30548-26	
2½"	TW-30548-28	
Buna N		
¾" mini	TW-30548-40	
1" ladish	TW-30548-42	
1½"	TW-30548-44	
2"	TW-30548-46	
2½"	TW-30548-48	
EPDM		
¾" mini	TW-30548-60	
1" ladish	TW-30548-62	
1½"	TW-30548-64	
2"	TW-30548-66	
2½"	TW-30548-68	
PTFE		
¾" mini	TW-30548-80	
1" ladish	TW-30548-82	
1½"	TW-30548-84	
2"	TW-30548-86	
2½"	TW-30548-88	



PFA Sanitary Clamp Fittings

Ideal for extremely corrosive materials—PFA will not rouge or pit

- Inert, nonstick surfaces—perfect for fragile and metal-sensitive proteins
- Employ regular steam-in-place cycles without worry
- Fully compatible with other Tri-Clamp® connections
- Protective overmolding reinforces clamp connection sites
- Full static vacuum capability at 300°F (149°C)

Sanitary applications that use highly corrosive chemicals require fittings that can endure the punishment. These food and pharmaceutical quality PFA fittings are easily cleaned so you will minimize downtime, cross contamination, and yield loss. Autoclavable.

Specifications



Pressure ratings:

- 100 psig @ ambient temperature
- 60 psig @ 180°F (6.9 bar at 82°C)
- 60 psig @ 35°F (4.1 bar at 1.66 °C)

Maximum temperature for normal operating parameters:

- 180°F (82°C) @ 14.7 psig (1 bar)

Vacuum:

- full static vacuum capability at 300°F (149°C)

Autoclavability:

- 255°F (124°C) autoclave temperature while components are not under load or bolted together in a valve assembly

Approvals:

- FDA, USP Class VI, 3A, and USDA Sanitary Standards



A 90° Elbows, PFA

Clamp size	Catalog number	Price
1/2"	TW-31530-01	
3/4"	TW-31530-02	
1"	TW-31530-03	
1 1/2"	TW-31530-04	

B Tees, PFA

Clamp size	Catalog number	Price
1/4"	TW-31530-09	
1/2"	TW-31530-10	
3/4"	TW-31530-11	
1"	TW-31530-12	
1 1/2"	TW-31530-13	
2"	TW-31530-14	

C Eccentric Reducer, PFA

Clamp size	Catalog number	Price
3/4" x 1/2"	TW-31530-19	

D Concentric Reducers, PFA

Clamp size	Catalog number	Price
3/4" x 1/2"	TW-31530-27	
1" x 3/4"	TW-31530-28	
1 1/2" x 1"	TW-31530-29	
2" x 1 1/2"	TW-31530-30	

E End Caps, PFA

Clamp size	Catalog number	Price
1/4", 1/2", 3/4"	TW-31530-34	
1", 1 1/2"	TW-31530-35	
2"	TW-31530-36	

F Ferrules, PFA

Clamp size	Catalog number	Price
1/4"	TW-31530-40	
1/2"	TW-31530-41	
3/4"	TW-31530-42	
1"	TW-31530-43	
1 1/2"	TW-31530-44	
2"	TW-31530-45	

G Clamps, 304L SS

Clamp size	Catalog number	Price
1/2" to 3/4"	TW-30562-01	
1" to 1 1/2"	TW-30562-02	
2"	TW-30562-03	
2 1/2"	TW-30562-04	
3"	TW-30562-05	
4"	TW-30562-06	

H Clamps, Nylon

Clamp size	Catalog number	Price
1/2" to 3/4"	TW-30508-21	
1" to 1 1/2"	TW-30508-23	
2"	TW-30508-25	
3"	TW-30508-27	
4"	TW-30508-29	



Fittings
Sanitary Clamps, SS

Cole-Parmer® 316L and 304 Stainless Steel Sanitary Clamp Couplings

Meet FDA requirements and 3A Sanitary Standards

Cole-Parmer proudly offers these sanitary clamp couplings to meet the demands of our customers. All couplings are compatible with standard 304L fittings clamps. Choose from 316L stainless steel or 304 stainless steel materials.

316L Stainless Steel Couplings are ideal for the pharmaceutical industry; they offer great chemical compatibility for use with corrosive acids and bases.

304 Stainless Steel Couplings are ideal for the food, beverage, and dairy industries; they offer good chemical compatibility and are cost effective.



A
30700-52

B
30701-00

C
30800-50

D
30800-60

E
30700-82

F
30800-66

G
30700-90

H
30800-71

I
30800-76

Key	Clamp size	316L stainless steel		304 stainless steel		
		Catalog number	Price	Catalog number	Price	
Concentric reducers						
A	1" x ¾"	TW-30700-50		—	—	
	1½" x 1"	TW-30700-51		TW-30700-95		
	2" x 1"	TW-30700-52		TW-30700-96		
	2" x 1½"	TW-30700-53		TW-30700-97		
Eccentric reducers						
B	1" x ¾"	TW-30700-54		—	—	
	1½" x 1"	TW-30700-55		TW-30700-98		
	2" x 1"	TW-30700-56		TW-30700-99		
	2" x 1½"	TW-30700-57		TW-30701-00		
Barbed adapters						
C	¾" x ½"	TW-30700-58		—	—	
	¾" x ¼"	TW-30700-59		—	—	
	¾" x ⅜"	TW-30700-60		—	—	
	¾" x ½"	TW-30700-61		—	—	
	¾" x ¾"	TW-30700-62		—	—	
	1" x 1"	TW-30700-63		TW-30800-50		
	1½" x 1½"	TW-30700-64		TW-30800-51		
	2" x 2"	TW-30700-65		TW-30800-52		
	Threaded adapters, clamp x NPT(M)					
	D	¾" x ½"	TW-30700-66		—	—
¾" x ¼"		TW-30700-67		—	—	
¾" x ⅜"		TW-30700-68		—	—	
¾" x ½"		TW-30700-69		—	—	
¾" x ¾"		TW-30700-70		—	—	
1" x ¾"		TW-30700-71		TW-30800-53		
1" x 1"		TW-30700-72		TW-30800-54		
1" x 1½"		TW-30700-74		TW-30800-55		
1" x 2"		TW-30700-75		TW-30800-56		
1½" x ¾"		TW-30700-76		TW-30800-57		
1½" x 1"		TW-30700-77		TW-30800-58		
1½" x 1¼"		TW-30700-78		TW-30800-59		
1½" x 1½"		TW-30700-79		TW-30800-60		
1½" x 2"		—	—	TW-30800-61		
90° elbows						
E		¾"	TW-30700-80		—	—
	1"	TW-30700-81		TW-30800-62		
	1½"	TW-30700-82		TW-30800-63		
	2"	TW-30700-83		TW-30800-64		
45° elbows						
F	¾"	TW-30700-84		—	—	
	1"	TW-30700-85		TW-30800-65		
	1½"	TW-30700-86		TW-30800-66		
	2"	TW-30700-87		TW-30800-67		
Tees						
G	¾"	TW-30700-88		—	—	
	1"	TW-30700-89		TW-30800-68		
	1½"	TW-30700-90		TW-30800-69		
	2"	TW-30700-91		TW-30800-70		
Crosses						
H	1"	TW-30700-92		TW-30800-71		
	1½"	TW-30700-93		TW-30800-72		
	2"	TW-30700-94		TW-30800-73		
	Clamps					
I	½" to ¾"	—	—	TW-30800-74		
	1" to 1½"	—	—	TW-30800-75		
	2"	—	—	TW-30800-76		
	2½"	—	—	TW-30800-77		
	3"	—	—	TW-30800-78		
	4"	—	—	TW-30800-80		



ASME-BPE BioPharm Fittings

For your critical applications—fittings meet ASME-BPE 2002 specifications

- Interior surface finishes available in both 20Ra Mechanical and 15Ra Electropolished
- All fittings are pin-stamped with material grade, heat number(s) and appropriate ASME-BPE surface finish designation
- Mill Test Reports (MTRs) available on all BPE sanitary fittings

Biopharm products are designed and built to meet the most stringent requirements of ultra-pure processing, including the ASME BPE 2002 specifications for dimensions, surface finishes and tolerances. These fittings are ideal for pharmaceutical, biotechnological and other ultra-pure applications. Biopharm fittings are subjected to rigorous quality control inspections then capped and shrink-wrapped to ensure safe storage and shipping. All Biopharm fittings are constructed of 316L stainless steel.

Key	Clamp size	Surface finish		Surface finish	
		20RA ID/32RA OD		15RA ID/MILL OD	
		Catalog number	Price	Catalog number	Price
90 degree elbow					
A	1/2"	TW-30606-01		TW-30607-01	
	3/4"	TW-30606-02		TW-30607-02	
	1"	TW-30606-03		TW-30607-03	
	1 1/2"	TW-30606-04		TW-30607-04	
	2"	TW-30606-05		TW-30607-05	
	2 1/2"	TW-30606-06		TW-30607-06	
45 degree elbow					
B	1/2"	TW-30606-07		TW-30607-07	
	3/4"	TW-30606-08		TW-30607-08	
	1"	TW-30606-09		TW-30607-09	
	1 1/2"	TW-30606-10		TW-30607-10	
	2"	TW-30606-11		TW-30607-11	
	2 1/2"	TW-30606-12		TW-30607-12	
Equal tee					
C	1/2"	TW-30606-13		TW-30607-13	
	3/4"	TW-30606-14		TW-30607-14	
	1"	TW-30606-15		TW-30607-15	
	1 1/2"	TW-30606-16		TW-30607-16	
	2"	TW-30606-17		TW-30607-17	
	2 1/2"	TW-30606-18		TW-30607-18	
Reducing tee					
D	3/4" x 1/2"	TW-30606-19		TW-30607-19	
	1" x 1/2"	TW-30606-20		TW-30607-20	
	1" x 3/4"	TW-30606-21		TW-30607-21	
	1 1/2" x 1/2"	TW-30606-22		TW-30607-22	
	1 1/2" x 3/4"	TW-30606-23		TW-30607-23	
	1 1/2" x 1"	TW-30606-24		TW-30607-24	
	2" x 1/2"	TW-30606-25		TW-30607-25	
	2" x 3/4"	TW-30606-26		TW-30607-26	
	2" x 1"	TW-30606-27		TW-30607-27	
	2" x 1 1/2"	TW-30606-28		TW-30607-28	
Solid end cap					
E	1/2" and 3/4"	TW-30606-29		TW-30607-29	
	1" and 1 1/2"	TW-30606-30		TW-30607-30	
	2"	TW-30606-31		TW-30607-31	
	2 1/2"	TW-30606-32		TW-30607-32	
Equal cross					
F	1/2"	TW-30606-33		TW-30607-33	
	3/4"	TW-30606-34		TW-30607-34	
	1"	TW-30606-35		TW-30607-35	
	1 1/2"	TW-30606-36		TW-30607-36	
	2"	TW-30606-37		TW-30607-37	
	2 1/2"	TW-30606-38		TW-30607-38	
Concentric reducer					
G	3/4" x 1/2"	TW-30606-39		TW-30607-39	
	1" x 1/2"	TW-30606-40		TW-30607-40	
	1" x 3/4"	TW-30606-41		TW-30607-41	
	1 1/2" x 1/2"	TW-30606-42		TW-30607-42	
	1 1/2" x 3/4"	TW-30606-43		TW-30607-43	
	1 1/2" x 1"	TW-30606-44		TW-30607-44	
	2" x 1/2"	TW-30606-45		TW-30607-45	
	2" x 3/4"	TW-30606-46		TW-30607-46	
	2" x 1"	TW-30606-47		TW-30607-47	
	2" x 1 1/2"	TW-30606-48		TW-30607-48	
Eccentric reducer					
H	3/4" x 1/2"	TW-30606-49		TW-30607-49	
	1" x 3/4"	TW-30606-50		TW-30607-50	
	1 1/2" x 1"	TW-30606-51		TW-30607-51	
	2" x 1"	TW-30606-52		TW-30607-52	
	2" x 1 1/2"	TW-30606-53		TW-30607-53	

MORE info!

Contact your local dealer for sizes up to 4", additional styles, and connection types.

MORE info!

Roughness Average (Ra) is the arithmetic mean of the peaks and valleys on the surface of the fitting. The lower the Ra reading, the smoother the surface.





Fittings

Sanitary, Sani-Lock / Smart Clamp

316L Stainless Steel Quick-Connect Clamps

No hinge clamp required—rapid one-hand connection

- Snap-in-place locking arms secure fitting, while safety pins prevent accidental release
- Fully compatible with sanitary Tri-Clamp® fittings
- 150 psi (10.3 bar) working line pressure

Converts any connection into a sanitary “quick-connect” connection. Sani-Lock provides the convenience and efficiency of a quick-connect while maintaining the integrity of a sanitary connection. Use with Tuf-Flex® gaskets for guaranteed leak-proof alignment (sold separately below). Automatic alignment of the Tuf-Flex gasket eliminates over and under compression of gaskets. The locking arms snap in place to create a secure connection.

Clamp size	Catalog number	Price
A Barbed adapters, Sani-Lock x tubing ID		
1/2" x 1/2"	TW-31607-60	
3/4" x 3/4"	TW-31607-62	
1" x 1"	TW-31607-64	
1 1/2" x 1 1/2"	TW-31607-66	
2" x 2"	TW-31607-68	
B Sanitary clamp adapters, Sani-Lock x Tri-Clamp		
1/2" x 1/2"	TW-31607-70	
1/2" x 1"	TW-31607-72	
1/2" x 1 1/2"	TW-31607-74	
3/4" x 3/4"	TW-31607-76	
3/4" x 1"	TW-31607-78	
3/4" x 1 1/2"	TW-31607-80	
1" x 1"	TW-31607-82	
1" x 1 1/2"	TW-31607-84	
1 1/2" x 1 1/2"	TW-31607-86	
1 1/2" x 2"	TW-31607-88	
2" x 2"	TW-31607-90	
2" x 2 1/2"	TW-31607-92	
C Butt weld adapters, Sani-Lock x butt weld		
1/2" x 1/2"	TW-31607-50	
3/4" x 3/4"	TW-31607-52	
1" x 1"	TW-31607-54	
1 1/2" x 1 1/2"	TW-31607-56	
2" x 2"	TW-31607-58	

Gaskets

(see page 569 for complete information)

Catalog number	Size	Price
TW-30547-50	1/2"	
TW-30547-52	3/4"	
TW-30547-54	1"	
TW-30547-56	1 1/2"	
TW-30547-58	2"	
TW-30547-60	2 1/2"	



A
31607-66

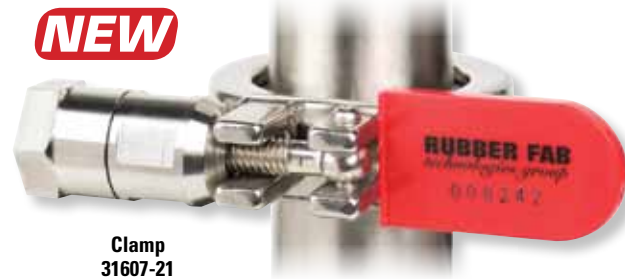


C
31607-56



B
31607-86

Sanitary Lockout/Tagout Tabs



Clamp
31607-21

Lockout/tagout tabs are available in five colors for quick and easy identification of process lines, resulting in greater safety and efficiency. All lockout/tagouts are numbered for lot and batch traceability. Use in conjunction with the Smart Clamp® sanitary clamps (at right) for your complete clamping needs.

Catalog number	Color	Price
TW-31607-20	Blue	
TW-31607-21	Red	
TW-31607-22	Green	
TW-31607-23	Yellow	
TW-31607-24	White	

Stainless Steel Sanitary Clamps

Torque control for consistent sealing of fittings

These sanitary clamps feature a unique design that allows fast clamping while reducing the repetitive strain injuries in hands and fingers that can occur with regular sanitary clamps; only a half turn is required. Clamps also have an adjustable torque for compression control and feature multiple settings for use with a variety of sanitary gaskets. Threadless design prevents soil and bacteria entrapment. Clamps also support ASME-BPE standards.



Clamp 31608-90
shown with tab
31607-21

Catalog number	Clamp size	Price
TW-31608-90	1 to 1 1/2"	
TW-31608-91	2"	



Fittings

Sanitary, Clamps / Connectors

Single-Use Sanitary Clamps

Fast, safe, secure, and cost-effective connections!

- Even 360-degree compression to prevent leakage
- Withstands pressures up to 100 psi (6.9 bar)
- Reduces installation time



SaniSure clamps feature an innovative design for fast, safe, secure connections and offer a cost-effective solution for connecting single-use installations. Made of USP Class VI-approved nylon, these clamps are designed for single use applications but are durable enough to withstand repetitive use. Unlike traditional two-point load stainless steel sanitary clamps, the design of these clamps ensure even 360-degree compression over the entire fitting surface—no more leaks and no gasket intrusion in your process line! Their low-profile rounded edges reduce the risk of penetrating bag assemblies, and the evenly controlled compression allows easy connection for plastic-to-plastic, plastic-to-stainless steel, or stainless steel-to-stainless steel coupling joints.

To use, simply insert the cable tie end in its mate a couple clicks; position clamp on ferrule; hold both clamp parts together; move clamp around the tri-clamp fitting joint and slide clamp closed. Complete the closure by using the clamping tool to bring it to the proper tension. The easy-to-use design reduces chances of risk associated with carpal tunnel or other wrist injuries and yields a tamper-proof connection that is not operator dependent. As a single-use device, they eliminate need for cleaning validations and reduce your overall downtime for installation.

Clamp size	Catalog number	Price	Replacement ties 50/pk	
			Cat. no.	Price
1/2 to 3/4"	TW-30562-21		TW-30562-31	
1 to 1 1/2"	TW-30562-22		TW-30562-32	

[TW-30562-40](#) Preset installation tool

[TW-30562-41](#) Calibrated preset installation tool

[TW-30562-42](#) Removal tool

Pregasketed Sanitary Connectors

- Meet USP Class VI requirements for pharmaceutical use and FDA, USDA, and 3A standards for food contact
- All fittings are compatible with Tri-Clamp® fittings
- Excellent chemical resistance with low leachable characteristics



These sanitary flange connectors come pregasketed with a medical-grade platinum-cured silicone gasket. All materials are certified animal-free and are noncytotoxic and nonhemolytic. Other sizes and styles are available—call for details.



Specifications

Body material: polypropylene, certified animal-derived component-free

Gasket material: platinum-cured silicone

Max pressure: 75 psi (5.2 bar) at ambient

Temperature range: -4 to 167°F (-20 to 75°C)

Sterilization: autoclave or gamma irradiation

Catalog number	Clamp size	Tube ID	Price/pk of 10
TW-30580-01	3/4" mini	1/4"	
TW-30580-02		3/8"	
TW-30580-03		1/2"	
TW-30580-04	1" to 1 1/2"	1/4"	
TW-30580-05		3/8"	
TW-30580-06		1/2"	
TW-30580-07		3/4"	

[TW-30580-91](#) Replacement sanitary gasket; 3/4" mini, platinum-cured silicone. Pack of 10

[TW-30580-94](#) Replacement sanitary gasket; 1 1/2", platinum-cured silicone. Pack of 10

Presterilized Connectors

- Maintain sterile integrity and ensure a secure connection
- Easy connections in seconds to reduce fluid line downtime
- Accommodate full system sterilization

With the Kleenpak connector, system sterility is ensured when connecting two separate presterilized lines. Each connector system consists of presterilized male and female halves. Barbed ends connect to 1/2" (13 mm) nominal tubing. Made from polycarbonate, the connectors are designed to withstand autoclaving or gamma irradiation. All Kleenpak connectors come with a Certificate of Test confirming the quality standards and quality control tests performed.

To use, install the connector half in your tubing line, and sterilize the assembly. Mate to the corresponding connector half; an audible snap ensures a tight union. Peel away the strips on the connector halves. Rotate the thumb rest on the male connector half, then push the thumb rest down to the base of the barrel to complete actuation.



Specifications

Construction

Body material: PC
O-ring: EPDM
Protective cap: PP
Peel-away strip: PES

Temperature range:

37 to 104°F (3 to 40°C)

Max pressure:

43.5 psi (3 bar)

Sterilize:

gamma irradiation, autoclave

Catalog number	Description	Tube ID	Price/ea
LZ-20002-01	Female connector	1/2" (13 mm)	
LZ-20002-02	Male connector		

Plastic Sanitary Couplings

Meet USP Class VI and FDA requirements for food contact



Tapered funnel design reduces “dead space” for exceptionally smooth fluid flow. Smooth inner surface prevents particle entrapment; seamless construction prevents contamination by eliminating leaks and areas of potential bacterial growth. Sterilize by gamma irradiation. Choose from three polymers; order silicone gasket and PVDF push/pull clamp separately below.



Catalog number	Tubing ID	Material	Dimensions			Price
			a	b	Orifice	
TW-31512-00	1/4"	Polypropylene	1 9/16"	3 1/32"	3/16"	
TW-31512-01	3/8"		1 11/16"	3 1/32"	5/16"	
TW-31512-02	1/2"		1 13/16"	3 1/32"	3/8"	
TW-31512-03	1/4"	PVDF	1 9/16"	3 1/32"	3/16"	
TW-31512-04	3/8"		1 11/16"	3 1/32"	5/16"	
TW-31512-05	1/2"		1 13/16"	3 1/32"	3/8"	
TW-31512-06	1/4"	Polysulfone	1 9/16"	3 1/32"	3/16"	
TW-31512-07	3/8"		1 11/16"	3 1/32"	5/16"	
TW-31512-08	1/2"		1 13/16"	3 1/32"	3/8"	

[TW-30548-00](#) Gasket, silicone. Pack of 10

[TW-31201-88](#) Push/pull clamp, PVDF



31201-88

Animal-Derived Ingredient-Free Polypropylene Sanitary Adapters

No BSE documentation required!

These adapters are the perfect transition from sanitary clamp connections to a barb for flexible tubing. All adapters feature a radiused flow surface controlled to 15 micron Ra to ensure a smooth, uninterrupted flow and no particulate buildup. There are no sharp edges in the flow path, so cleaning is very easy.

Made from animal-derived ingredient-free polypropylene, these adapters offer good chemical resistance and may be sterilized by gamma irradiation. Material meets the requirements for USP Class VI. Available with 3/8" or 1/2" hose barb, and 3/4" mini or 1/2" standard sanitary clamp connections. Pair with Cole-Parmer® platinum-cured silicone sanitary gaskets for a connection that is completely free of animal-derived ingredients.



31513-13



31513-16



Catalog number	Clamp size	Tubing ID	Dimensions			Price
			a	b	Orifice	
TW-31513-13	1/2"	3/8"	1.64"	0.98"	0.30"	
TW-31513-14	1/2"	1/2"	1.87"	0.98"	0.42"	
TW-31513-15	1 1/2"	1/2"	1.64"	1.99"	0.30"	
TW-31513-16	1 1/2"	1/2"	1.87"	1.99"	0.44"	

[TW-30548-00](#) Gasket, 1/2", platinum-cured silicone. Pack of 10

[TW-30548-04](#) Gasket, 1 1/2", platinum-cured silicone. Pack of 10

[TW-31201-88](#) Push/pull sanitary mini clamp, PVDF

[TW-30508-23](#) Sanitary clamp, 1 1/2", nylon

MORE info!

Roughness Average (Ra) is the arithmetic mean of the peaks and valleys on the surface of the fitting. The lower the Ra reading, the smoother the surface.

316L Stainless Steel Sanitary Couplings

Meet USDA and FDA requirements and 3A Sanitary Standards

Unlike permanent couplers, these couplers can be attached to a length of tubing when the old tubing wears out. Suitable for clean-in-place, steam-in-place, and autoclaving for reuse; compatible with Tri-Clamp® fittings. The internal stem is made of 316L stainless steel with an interior surface finish of 25Ra (roughness average) or better. Fittings also feature an external sleeve made from a high-temperature, high-strength polymer and a PTFE O-ring to protect against any external entrapment. Compression seal eliminates wicking between couplers and tubing. Use with flexible tubing (order on pages 1823–1859). Step-up couplers are available upon request—call our Application Specialists for details.



Coupling 31511-03



Catalog number	Clamp size	Tubing		Compatible with tubings					Price
		ID	OD	Norprene® food grade	PharMed® BPT	Silicone†	Reinforced silicone†	Tygon® food grade	
TW-31511-03	1/4"	1/4"	1/2"	95710-40	96880-12	06411-74	95623-03	—	
TW-31511-07	3/8"	3/8"	5/8"	95710-60	96880-16	06411-79	—	—	
TW-31511-08	3/8"	3/8"	1 1/16"	—	—	—	95623-05	—	
TW-31511-13	1/2"	1/2"	13/16"	—	—	—	95623-06	—	
TW-31511-15	3/4"	3/4"	1"	95710-90	96880-22	06411-83	—	95631-28	
TW-31511-16	3/4"	3/4"	1 1/8"	—	—	—	95623-08	—	
TW-31511-20	1"	1"	1 3/8"	—	—	—	95623-10	—	

†Listed silicone tubing is peroxide cured



Cole-Parmer Gaskets for Sanitary Fittings

These gaskets are for Tri-Clamp® style fittings and come in a wide variety of materials to match your specific process needs. All gaskets meet FDA CFR Title 21 CFR 177.2600, USDA, 3A, and cGMP criteria. The silicone, EPDM, FKM, and PTFE gaskets are free of animal-derived ingredients and meet USP Class VI, EP 3.1.9, and cytotoxicity criteria. **All gaskets are sold in pack of 10.** Contact Cole-Parmer for other sizes or materials.

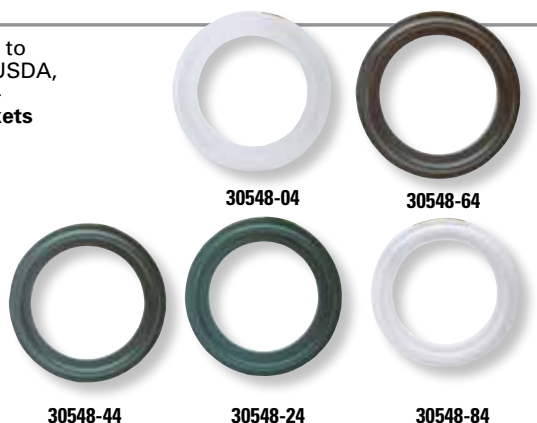
Platinum-Cured Silicone is ideal for most pharmaceutical, food, and beverage processing applications. Odorless and tasteless to ensure media purity. Usable from -58 to 446°F (-50 to 230°C). Maybe undergo SIP.

EPDM offers good chemical resistance. An economical choice for water, acetone, or ketone applications. Usable from -65 to 212°F (-54 to 100°C).

Buna N offers good chemical resistance, particularly for petroleum-based products or cold water. Usable over a range from -65 to 275°F (-54 to 135°C).

FKM offers excellent chemical resistance, especially to many acids and alkalis. The best choice for many pharmaceutical, chemical, automotive, or fuel applications. Usable from -25 to 400°F (-32 to 204°C). Sterilization is not recommended.

PTFE offers excellent chemical compatibility. Highly resistant to stress cracking and corrosion. Usable from -450 to 550°F (-268 to 288°C).



Size	Platinum-cured silicone		EPDM		Buna N		FKM		PTFE	
	Catalog number	Price/pk of 10	Catalog number	Price/pk of 10	Catalog number	Price/pk of 10	Catalog number	Price/pk of 10	Catalog number	Price/pk of 10
3/4"	TW-30548-00		TW-30548-60		TW-30548-40		TW-30548-20		TW-30548-80	
1"	TW-30548-02		TW-30548-62		TW-30548-42		TW-30548-22		TW-30548-82	
1 1/2"	TW-30548-04		TW-30548-64		TW-30548-44		TW-30548-24		TW-30548-84	
2"	TW-30548-06		TW-30548-66		TW-30548-46		TW-30548-26		TW-30548-86	
2 1/2"	TW-30548-08		TW-30548-68		TW-30548-48		TW-30548-28		TW-30548-88	

Flexible Gaskets

Ensure a better process seal with outstanding chemical resistance

- The chemical resistance of PTFE and the flexibility of an elastomer
- Designed for CIP/SIP conditions

The Tuf-Flex gasket grafts a PTFE envelope to an elastomer core. Unlike pure PTFE gaskets, or even other sheathed gaskets, Tuf-Flex will not creep or cold flow over time and therefore maintains the integrity of its seal in your process line. The core gives the gasket the mechanical properties of an elastomer, including memory and flexibility. Designed to meet the stringent requirements of biopharmaceutical, ultra-pure water, WFI (water for injection), and food and beverage processing applications. Has USP Class VI certification; meets USDA and 3A sanitary standards. Material is free of animal-derived ingredients.



Catalog number	Size	Price/ea
TW-30547-50	1/2"	
TW-30547-52	3/4"	
TW-30547-54	1"	
TW-30547-56	1 1/2"	
TW-30547-58	2"	
TW-30547-60	2 1/2"	



30547-56

Rugged Gaskets

The benefits of PTFE and 316L stainless steel in one gasket!

- Ideal for SIP and WFI applications
- No cold flow or creep
- Durability helps reduce system downtime

The Tuf-Steel gasket combines the outstanding chemical resistance of a fluoropolymer with the rugged durability of stainless steel. Made of a unique blend of PTFE and 316L passivated stainless steel, this gasket eliminates the potential for gouging and forms a leakproof seal. It contains no pigments and has a pharmaceutical-grade inner diameter finish. An outstanding choice for steam in place (SIP) and water for injection (WFI) applications. This material has a USP Class VI certification and meets USDA and 3A sanitary standards. Usable from -20 to 500°F (-29 to 260°C).



Catalog number	Size	Price/pk of 10
TW-30547-00	1/2"	
TW-30547-02	3/4"	
TW-30547-04	1"	
TW-30547-06	1 1/2"	
TW-30547-08	2"	
TW-30547-10	2 1/2"	



30547-06



Fittings

Sanitary Gaskets, Specialty / Screen



NEW

X-rayable/Metal-Detectable Sanitary Gaskets

Easily detect lost elastomeric fragments to prevent contamination and product recalls

- Designed for food processing, microbial, high-temperature, and mechanical applications
- Available in five materials

These metal-detectable gaskets provide an easy and cost-effective solution to product contamination. By manufacturing a standard elastomer with a metal-impregnated compound, any displaced rubber material can now be located by an in-line metal detector or X-ray equipment. The metal-infused elastomer allows you to readily detect any part of the gasket that has sheared off due to wear.

As a result of excessive use, shearing and damage can occur to gaskets causing undetectable product contamination. These X-rayable gaskets can eliminate product recall, lower product loss and decrease the risk of elastomers consumed in finished product. When rubber breaks off a moving part, it can migrate through your system and into your product. Searching for and locating fragmented rubber parts is a costly, time-consuming, and often inconclusive process. Not locating a worn and lost rubber piece can have an even costlier outcome. More sizes available, call for details.

Size	Platinum-cured silicone (red)		EPDM (black)		FKM (black)		Buna N (red)		Tuf-Steel® (blue)	
	Catalog number	Price	Catalog number	Price	Catalog number	Price	Catalog number	Price	Catalog number	Price
¾"	TW-30566-01		TW-30566-09		TW-30566-17		TW-30566-25		TW-30566-33	
1"	TW-30566-03		TW-30566-11		TW-30566-19		TW-30566-27		TW-30566-35	
1½"	TW-30566-05		TW-30566-13		TW-30566-21		TW-30566-29		TW-30566-37	
2"	TW-30566-07		TW-30566-15		TW-30566-23		TW-30566-31		TW-30566-39	

Screen Gaskets

Protect your pump, valves, and other components in fluid line

- Pre-filter before critical membrane filters
- Generate turbulence for enhanced mass or heat transfer
- Purify in chromatography applications

Screen gaskets are designed to be interchangeable with standard sanitary clamp gaskets. Gaskets are available in platinum-cured silicone, EPDM, FKM, PTFE, and Tuf-Steel® with mesh sizes of 10, 20, 40, 60, and 100. Screen mesh is constructed of 316L SS. Gaskets meet USP Class VI, FDA CFR Title 21 Section 177.2600, USDA, 3-A and cGMP criteria. All gaskets are free of animal-derived ingredients.

Platinum-Cured Silicone is an ideal choice for pharmaceutical, high-purity water, injectable, food, and beverage applications. Resists adhesion; tasteless/odorless; plasticizer-free. Usable from -58 to 446°F (-50 to 230°C). Sanitize in place at up to 30 psi and up to 123°C (235°F).

EPDM is an economical solution for transfer of water, acetones, or ketones. Good for chemical processes. Usable from -65 to 212°F (-54 to 100°C).

FKM offers excellent chemical resistance. Applications include pharmaceutical, chemical, automotive, and fuel lines. Easy to install yet durable; resists hardening and embrittlement. Usable from -25 to 400°F (-32 to 204°C). Sterilization is not recommended.

PTFE offers excellent chemical resistance. Resists high temperatures. Commonly used in pharmaceutical, food, and chemical applications. Usable from -450 to 550°F (-268 to 288°C).

Tuf-Steel is a unique blend of PTFE and 316L SS which offers excellent chemical resistance and forms a complete seal when torqued to 50 in-lbs. Usable from -20 to 450°F (-29 to 232°C). Handles repeated steam in place (SIP) cleaning with no creeping and minimal heat expansion.

Mesh Comparison Table



Mesh size (wires/inch)	Particle size retained	
	Microns	Inches
10	1905	0.075
20	864	0.065
40	381	0.015
60	233	0.009
100	140	0.004



30523-08
Mesh size 10



30539-24
Mesh size 20



30537-48
Mesh size 40



30538-68
Mesh size 60



30523-86
Mesh size 100

Size	Mesh					Price/ea
	10	20	40	60	100	
Platinum-cured silicone gaskets						
½"	—	TW-30523-20	TW-30523-40	TW-30523-60	TW-30523-80	
¾"	—	TW-30523-22	TW-30523-42	TW-30523-62	TW-30523-82	
1"	TW-30523-04	TW-30523-24	TW-30523-44	TW-30523-64	TW-30523-84	
1½"	TW-30523-06	TW-30523-26	TW-30523-46	TW-30523-66	TW-30523-86	
2"	TW-30523-08	TW-30523-28	TW-30523-48	TW-30523-68	TW-30523-88	
EPDM gaskets						
½"	—	TW-30537-20	TW-30537-40	TW-30537-60	TW-30537-80	
¾"	—	TW-30537-22	TW-30537-42	TW-30537-62	TW-30537-82	
1"	TW-30537-04	TW-30537-24	TW-30537-44	TW-30537-64	TW-30537-84	
1½"	TW-30537-06	TW-30537-26	TW-30537-46	TW-30537-66	TW-30537-86	
2"	TW-30537-08	TW-30537-28	TW-30537-48	TW-30537-68	TW-30537-88	
FKM gaskets						
½"	—	TW-30536-20	TW-30536-40	TW-30536-60	TW-30536-80	
¾"	—	TW-30536-22	TW-30536-42	TW-30536-62	TW-30536-82	
1"	TW-30536-04	TW-30536-24	TW-30536-44	TW-30536-64	TW-30536-84	
1½"	TW-30536-06	TW-30536-26	TW-30536-46	TW-30536-66	TW-30536-86	
2"	TW-30536-08	TW-30536-28	TW-30536-48	TW-30536-68	TW-30536-88	
PTFE gaskets						
½"	—	TW-30538-20	TW-30538-40	TW-30538-60	TW-30538-80	
1"	TW-30538-04	TW-30538-24	TW-30538-44	TW-30538-64	TW-30538-84	
1½"	TW-30538-06	TW-30538-26	TW-30538-46	TW-30538-66	TW-30538-86	
2"	TW-30538-08	TW-30538-28	TW-30538-48	TW-30538-68	TW-30538-88	
Tuf-Steel gaskets						
½"	—	TW-30539-20	TW-30539-40	TW-30539-60	TW-30539-80	
1"	TW-30539-04	TW-30539-24	TW-30539-44	TW-30539-64	TW-30539-84	
1½"	TW-30539-06	TW-30539-26	TW-30539-46	TW-30539-66	TW-30539-86	
2"	TW-30539-08	TW-30539-28	TW-30539-48	TW-30539-68	TW-30539-88	



Sanitary Sampling Smart Gasket®

Smart Gasket lets you take samples or readings from a sanitary line

- Measure temperature, take a sample, or dose chemicals into your process line.
- Install in between two sanitary fittings

The Smart Gasket is used as a standard sanitary gasket with standard Tri-clamp® fittings. The gaskets have molded ports that allow either a thermocouple or sampling tubes to be inserted into the line. Order the appropriate Smart Gasket clamp below.

Clamp size	Material	1 Port		2 Ports		3 Ports		4 Ports	
		Cat no.	Price	Cat no.	Price	Cat no.	Price	Cat no.	Price
Smart gaskets									
1/2"	Pt. silicone	TW-30542-00		TW-30543-00		TW-30544-00		TW-30545-00	
	EPDM	TW-30542-01		TW-30543-01		TW-30544-01		TW-30545-01	
	FKM	TW-30542-02		TW-30543-02		TW-30544-02		TW-30545-02	
3/4"	Pt. silicone	TW-30542-04		TW-30543-04		TW-30544-04		TW-30545-04	
	EPDM	TW-30542-05		TW-30543-05		TW-30544-05		TW-30545-05	
	FKM	TW-30542-06		TW-30543-06		TW-30544-06		TW-30545-06	
1"	Pt. silicone	TW-30542-08		TW-30543-08		TW-30544-08		TW-30545-08	
	EPDM	TW-30542-09		TW-30543-09		TW-30544-09		TW-30545-09	
	FKM	TW-30542-10		TW-30543-10		TW-30544-10		TW-30545-10	
1 1/2"	Pt. silicone	TW-30542-12		TW-30543-12		TW-30544-12		TW-30545-12	
	EPDM	TW-30542-13		TW-30543-13		TW-30544-13		TW-30545-13	
	FKM	TW-30542-14		TW-30543-14		TW-30544-14		TW-30545-14	
2"	Pt. silicone	TW-30542-16		TW-30543-16		TW-30544-16		TW-30545-16	
	EPDM	TW-30542-17		TW-30543-17		TW-30544-17		TW-30545-17	
	FKM	TW-30542-18		TW-30543-18		TW-30544-18		TW-30545-18	



Ports allow temperature measurement, injection, or withdrawal from a sanitary process line.

Smart Gasket® Clamps

The Smart Gasket clamps are required with the gaskets because they have slots in them that allow for the different number of ports. The clamps are specific to the number of ports on the gasket.

Clamp size	Material	1 Port		2 Ports		3 Ports		4 Ports	
		Cat no.	Price	Cat no.	Price	Cat no.	Price	Cat no.	Price
Smart gasket clamps									
1/2"	304 Stainless steel	TW-30542-03		TW-30543-03		TW-30544-03		TW-30545-03	
3/4"		TW-30542-07		TW-30543-07		TW-30544-07		TW-30545-07	
1"		TW-30542-11		TW-30543-11		TW-30544-11		TW-30545-11	
1 1/2"		TW-30542-15		TW-30543-15		TW-30544-15		TW-30545-15	
2"		TW-30542-19		TW-30543-19		TW-30544-19		TW-30545-19	



30544-03

Accessories

The thermocouples allow you to obtain critical thermal mapping information needed in the validation process. Flexible thermocouple wire allows you to take a reading in the line, away from the connection. The solid thermocouple probe will take a reading in the center of the flow stream. The sampling tube has a luer fitting to connect to any syringe for sampling or adapt the luer to a pump for metered injection into the line.

[TW-30545-90](#) Temperature probe, Type K, short† with 3-ft (1.0-m) cable

[TW-30545-91](#) Temperature probe, Type K, long‡ with 3-ft (1.0-m) cable

[TW-08516-82](#) Thermocouple wire, FEP coated, Type K, 10 ft (3.0 m)

[TW-30545-93](#) Thermocouple wire, Kapton® coated, Type K, 10 ft (3.0 m)

[TW-30545-94](#) 3-ft (1.0-m) extension wire, Type K

[TW-30545-95](#) 6-ft (1.8-m) extension wire, Type K

[TW-30545-97](#) 12-ft (3.6-m) extension wire, Type K

[TW-30545-98](#) Hole plug

[TW-30545-99](#) Sampling tube

[TW-31507-01](#) Stopcock

[TW-91427-10](#) Digi-Sense® Type K meter

†Short probe is 27/32"

‡Long probe is 1 1/4". Other thermocouple types are available; call for more information.



30545-99

30545-91

O-Ring Kits

Available in four elastomers: Buna N, EPDM, silicone, and FKM. Kits contain 382 O-rings of various sizes from 1/8" ID x 1/4" OD x 1/16" thick to 1 3/4" ID x 2 1/8" OD x 3/16" thick. Use for quick-disconnect fittings, valves, pumps and other fluid handling products.

Ring holders inside the hard case kit allow you to easily size the O-rings.

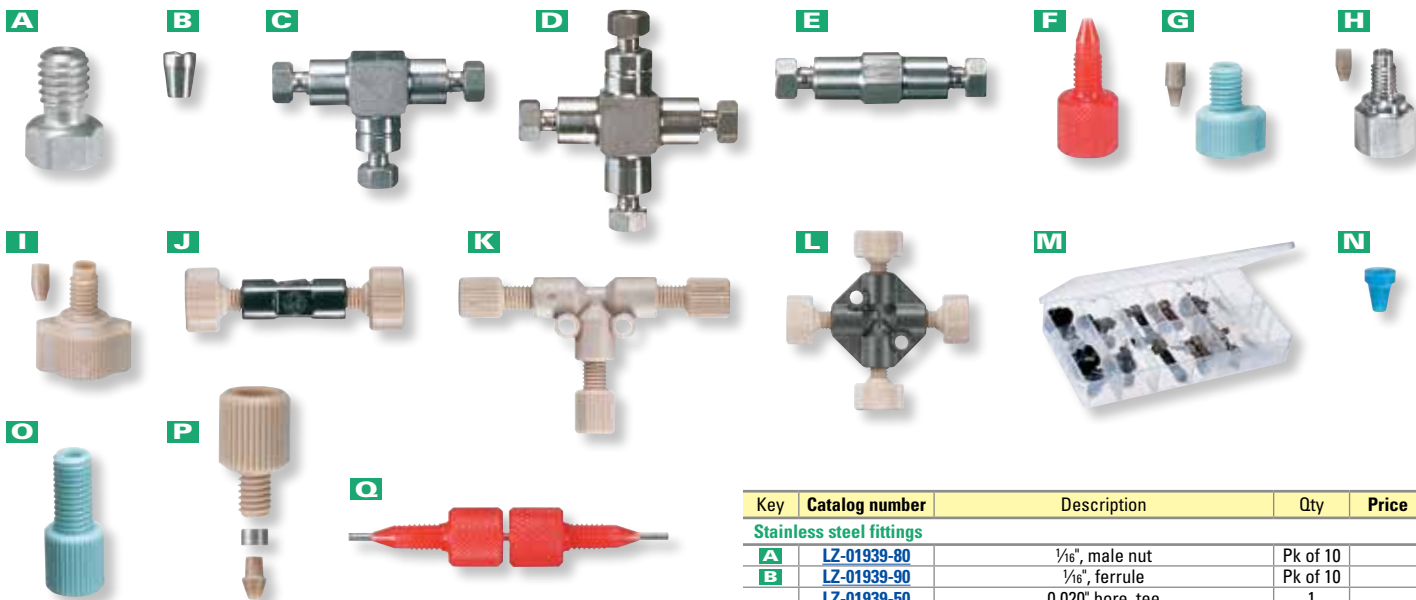
Cat. no.	Description	Price
TW-31550-36	Buna N	
TW-31551-36	EPDM	
TW-31551-86	Silicone	
TW-31550-86	FKM	



MORE online!

For technical information on the O-Ring kits on this page, enter the Catalog Number into the online catalog "Search" box. Go to . . . [ColeParmer.com](#)

Chromatography Fittings



A-E Stainless Steel (SS) Fittings include nuts and ferrules. They are equivalent to Parker and Swagelok®. Tees and crosses connect two or more columns from the injector (0.020" bore), and join multiple solvent lines before the injector (0.040" bore). Tees and crosses take 1/16" OD tubing. Tee includes three ferrules and nuts each. Cross includes four ferrules and nuts each. Zero dead-volume (ZDV) unions connect tubing without any dead volume.

F Standard Fingertight® I High-Pressure Fittings are in one piece, and are finger tightened to withstand 4000 psi. Use with 1/16" OD plastic or SS tubing.

G-H Standard Fingertight II High-Pressure Fittings hold up to 6000 psi. Wrench tighten the SS nut/PEEK† ferrule type to hold up to 10,000 psi. Use with 1/16" OD plastic or SS tubing.

I PEEK† Fingertight III Fittings withstand bursting pressures of any 1/16" OD tubing or to 6000 psi. Replacement ferrules available below right.

J-L PEEK† High-Pressure Unions, Tees, and Crosses hold up to 5000 psi and include Fingertight III fittings. Fittings work with any 1/16" OD tubing.

J-L PEEK† Low-Pressure Unions, Tees, and Crosses hold up to 1000 psi (1/16" tubing), or to 500 psi (1/8" tubing). PEEK flangeless fittings included. Models 02008-00, -10, and -20 take 1/16" OD tubing; models 02008-04, -14, and -24 take 1/8" OD tubing.

M PEEK† Fitting Kit contains twenty ferrules, six Fingertight III nuts with ferrules, two metric adapters, two 10-32 female to 1/4-28 female adapters, two unions with 0.020" bore, one union with 0.050" bore, tees with 0.020" bore and 0.050" bore each, and crosses with 0.020" and 0.050" bore each.

N-O Flangeless Fittings are easy to assemble; slide the ferrule over the tubing and finger tighten the nut. No need to flange your fluoropolymer tubing. Models 01939-30, -32 take 1/16" OD tubing and are rated at 1000 psi; models 01939-32, -42 take 1/8" OD tubing and are rated at 500 psi. Feature 1/4-28 threads.

P LiteTouch® Ferrule Systems feature unique double-coned ferrule and SS compression ring. Won't twist tubing while disconnecting. Compression ring remains attached to tubing for quick reconnection. Rated for 5000 psi (01939-36) or 7000 psi (01939-34 and -44). Order tool 01939-39 (below right) to remove compression ring. Order SS nuts ("A") or PEEK nuts ("P") in table.

Q Column Couplers allow zero dead-volume connections between column and column, column and detector, or column and guard column. Include a 5-cm length of 0.007" ID tubing.

†Maximum operating temperature is 302°F (150°C).

Key	Catalog number	Description	Qty	Price
Stainless steel fittings				
A	LZ-01939-80	1/16", male nut	Pk of 10	
B	LZ-01939-90	1/16", ferrule	Pk of 10	
C	LZ-01939-50	0.020" bore, tee	1	
	LZ-01939-52	0.040" bore, tee	1	
D	LZ-01939-60	0.020" bore, cross	1	
	LZ-01939-62	0.040" bore, cross	1	
E	LZ-01939-70	0.020" bore, ZDV union, joins 1/16" tubing	1	
	LZ-01939-72	0.010" bore, ZDV union, joins 0.005" or 0.007" tubing	1	
Standard Fingertight® I high-pressure fittings				
F	LZ-01939-20	10-32, CTFE nut/CTFE ferrule	Pk of 10	
	LZ-01939-22	1/4-28, CTFE nut/CTFE ferrule	Pk of 10	
Standard Fingertight II high-pressure fittings				
G	LZ-01939-00	10-32, acetal male nut/PEEK ferrule	Pk of 10	
	LZ-01939-02	1/4-28, acetal male nut/PEEK ferrule	Pk of 10	
H	LZ-01939-10	10-32, SS male nut/PEEK ferrule	Pk of 10	
	LZ-01939-12	1/4-28, SS male nut/PEEK ferrule	Pk of 10	
PEEK Fingertight III fittings				
I	LZ-02007-00	10-32, nut/ferrule	1	
	LZ-02007-02	1/4-28, nut/ferrule	1	
PEEK high-pressure unions, tees, and crosses				
J	LZ-02008-02	0.020" bore, union	1	
	LZ-02008-06	0.050" bore, union	1	
K	LZ-02008-12	0.020" bore, tee	1	
	LZ-02008-16	0.050" bore, tee	1	
L	LZ-02008-22	0.020" bore, cross	1	
	LZ-02008-26	0.050" bore, cross	1	
PEEK low-pressure unions, tees, crosses and fitting kit				
J	LZ-02008-00	0.020" bore, union	1	
	LZ-02008-04	0.050" bore, union	1	
K	LZ-02008-10	0.020" bore, tee	1	
	LZ-02008-14	0.050" bore, tee	1	
L	LZ-02008-20	0.020" bore, cross	1	
	LZ-02008-24	0.050" bore, cross	1	
M	LZ-02008-50	PEEK fitting kit	1	
Flangeless fittings				
N	LZ-01939-30	1/16", acetal ferrule	Pk of 10	
	LZ-01939-32	1/8", acetal ferrule	Pk of 10	
O	LZ-01939-40	1/16", ETFE male nut	Pk of 10	
	LZ-01939-42	1/8", ETFE male nut	Pk of 10	
LiteTouch® ferrule systems				
P	LZ-01939-34	1/16", PEEK ferrule system	Pk of 10	
	LZ-01939-36	1/8", PEEK ferrule system	Pk of 10	
	LZ-01939-44	1/16", PEEK nut	Pk of 10	
	LZ-01939-46	1/8", PEEK nut	Pk of 10	
Column couplers				
Q	LZ-01939-95	Two CTFE fittings, built-in nuts and ferrules	1	
	LZ-01939-96	Two sets of acetal nuts/ketone ferrules	1	

LZ-02007-50 Replacement ferrule for "I" fitting 02007-00

LZ-02007-52 Replacement ferrule for "I" fitting 02007-02

LZ-01939-39 Removal tool for "P" ferrule systems

PTFE Connectors

These autoclavable PTFE connectors are available in two-way, three-way, and multiport tube connections to produce a very low dead volume connection for rigid tubing in a variety of sizes. All standard connectors (except 06473-07 and -08) include polypropylene (PP) caps, two large FKM O-rings per cap to connect 2- to 4-mm OD tubing, one small FKM O-ring to connect 1- to 2-mm OD tubing, and one PTFE cone. Most connectors are also available with integral on/off valves.

Using the interchangeable components, it is possible to create standard connections, chemically inert fluid pathway connections, and flat-bottom ports.



Standard Connectors

Key	Type	Tube OD	Standard connectors			Connectors with integral on/off valve		
			Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
Union connectors (2-way)								
A	Straight	1 to 4 mm	TW-06473-00	3		TW-06473-10	2	
			TW-06473-01	20				
B	Straight	4 to 11 mm	TW-06473-08	2		TW-06473-90	2	
C	Elbow	1 to 4 mm	TW-06473-98	1		—	—	—
D	Reducer	4 to 11 x 1 to 4 mm	TW-06473-07	2		TW-06473-14	1	
E	Bulkhead	1 to 4 mm	TW-06473-06	2		TW-06473-13	2	
Multiport connectors								
F	Tee	1 to 4 mm	TW-06473-09	1		TW-06473-15	1	
G	3-way	1 to 4 mm	TW-06473-02	1		TW-06473-11	1	
H	4-way	1 to 4 mm	TW-06473-03	1		—	—	—
I	6-way	1 to 4 mm	TW-06473-04	1		—	—	—
J	8-way	1 to 4 mm	TW-06473-05	1		TW-06473-12	1	

Colored Caps

A cost-effective method to enable quick and easy color coding of multiple fluid lines.

Catalog number	Color/material	Qty/pk	Price/pk
TW-06471-00	Black PP	10	
TW-06471-01	Brown PP		
TW-06471-02	Red PP		
TW-06471-03	Orange PP		
TW-06471-04	Yellow PP	10	
TW-06471-05	Green PP		
TW-06471-06	Blue PP		
TW-06471-07	Violet PP		
TW-06471-08	Gray PP	10	
TW-06471-09	White PP		
TW-06471-10	Mixed PP†		
TW-06473-20	Whitish Tefzel®		

†Includes one of each PP cap listed in this table.

PTFE Cones

Catalog number	For connector size	Tube OD	Qty/pk	Price/pk
TW-06471-60	1 to 4 mm	1/32"	4	
TW-06471-61		1/16"		
TW-06471-62		1/8"		
TW-06471-63	4 to 11 mm	3/16"	2	
TW-06471-64		1/4"		
TW-06471-65		5/16"		
TW-06471-66	4 to 11 mm	3/8"	2	
TW-06471-67		7/16"		
TW-06471-68		6.0 mm		

Replacement FKM O-Rings

Catalog number	Size	Qty/pk	Price/pk
TW-06473-21	1 to 2 mm	10	
TW-06473-26	2 to 4 mm	10	
TW-06473-28	4 to 11 mm	1	

Couplings

Catalog number	Material	Qty/pk	Price/pk
TW-06473-50	PP	10	
TW-06473-55	Tefzel	10	

Tube End Fittings (1/4"-28 UNF thread)

Use these tube end fittings to create a flat-bottom port connection (see Option 3 at right). Can also connect to a coupling (sold below left) to make a straight-through connection.

For 1/16" tubing	For 1/8" tubing	Color/material	Qty/pk	Price/pk
Cat. no.	Cat. no.			
TW-06471-20	TW-06471-40	Black PP	10	
TW-06471-21	TW-06471-41	Brown PP		
TW-06471-22	TW-06471-42	Red PP		
TW-06471-23	TW-06471-43	Orange PP		
TW-06471-24	TW-06471-44	Yellow PP	10	
TW-06471-25	TW-06471-45	Green PP		
TW-06473-40	TW-06471-46	Blue PP		
TW-06471-27	TW-06471-47	Violet PP		
TW-06471-28	TW-06471-48	Gray PP	10	
TW-06471-29	TW-06471-49	White PP		
TW-06471-30	TW-06471-50	Mixed PP†		
TW-06473-42	TW-06473-47	Whitish Tefzel®		

†Includes one of each PP tube end fitting listed in this table.

[TW-06471-69](#) Tefzel/PTFE plug.

Pack of 2



06471-69

Grippers (1/4"-28 UNF thread)

Secure a gripper onto the tubing and place a fitting of the desired thread type behind it. Once in place, the gripper fitting is simply screwed into a female flat-bottom port of the appropriate thread type to make a secure seal.

Catalog number	Size	Qty/pk	Price/pk
TW-06473-60	For 1/16" tubing	10	
TW-06473-65	For 1/8" tubing	10	

Tubing Connector Kits

Catalog number	Size	Material	Price
TW-06473-70	1/16"	PP	
TW-06473-72		Tefzel	
TW-06473-75	1/8"	PP	
TW-06473-77		Tefzel	

MORE info!

Making a Connection

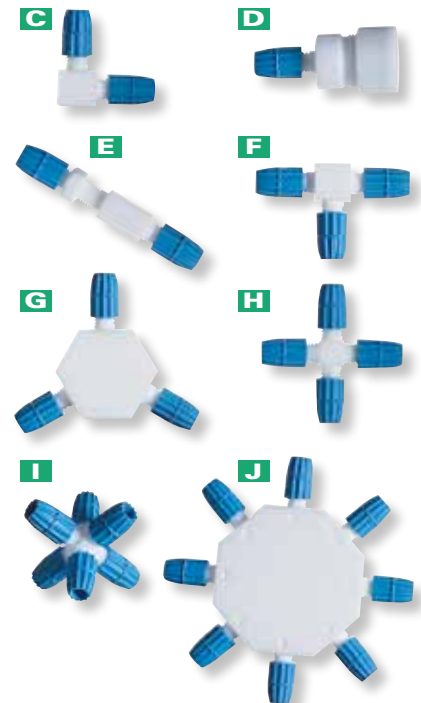
Option 1) Standard connection:

Use the two large O-rings to connect 2- to 4-mm OD tubing. Add the small FKM O-ring to connect 1- to 2-mm OD tubing. Place the O-rings over the outside of the tubing and fit into the conical recess of the connector body. Screw the outer colored cap into place to compress the O-rings, thus making a seal with a maximum pressure rating of 50 psi.

Option 2) Chemical inert fluid pathway:

Use a PTFE cone that corresponds to the tube's outside diameter. Place the cone over the tube, fit into the conical recess in the connector, and screw the cap into place to make an all-PTFE connection with a maximum pressure rating of 50 psi.

Option 3) Flat-bottom port: Use the PTFE cone to convert the conical recess in the connector cap into a 1/4"-28 UNF flat-bottomed port. Screw a tube end fitting into the cap to create an all-PTFE, leak-free connection with a maximum pressure rating of 1000 psi. The connector can be used in any standard 1/4"-28 UNF threaded port. For soft-wall tubing, use a gripper (sold separately).



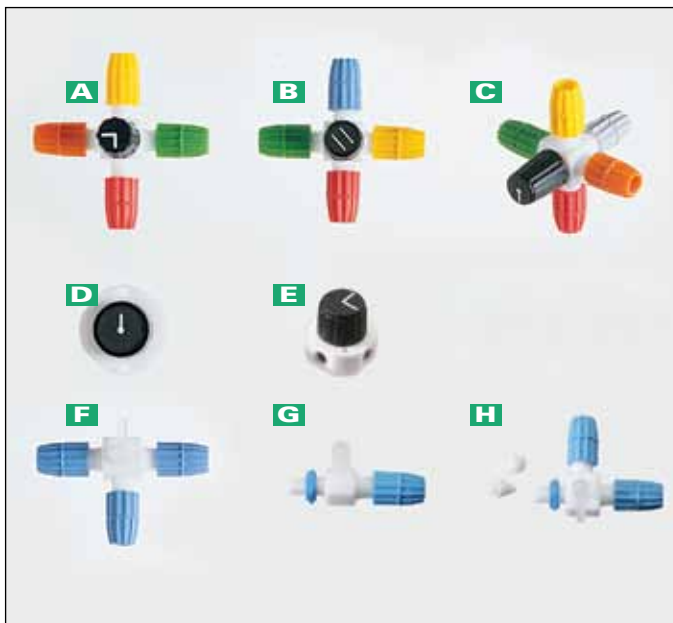
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PTFE Valves

Micro Tubing Distribution Valves



Standard 4- or 5-port valves are rated to 50 psi and come with polypropylene caps, FKM O-rings and PTFE cones; can be used with 1- to 4-mm OD tubing. High-pressure valves are rated to 500 psi (34.5 bar); can be used with gripper fittings.

Key	Catalog number	Ports	Ports connected	Tube OD	Price
Standard micro tubing valves					
A	TW-06471-70	4	One adjacent pair at 90°	1 to 4 mm	
B	TW-06471-71	4	Two adjacent pairs at 90°		
C	TW-06471-72	5	One port to inlet		
High-pressure micro tubing valves					
D	TW-06471-75	5	One port to inlet	1/8" or 1/16" OD	
E	TW-06471-76	4	One adjacent pair at 90°		

Miscellaneous Valves

Key	Catalog number	Type	Tube OD	Price
F	TW-06473-15	3-way, single stem	1 to 4 mm	
G	TW-06473-22	Screw-in valve		
H	TW-06473-23	Column bleed valve		

PVDF Stopcocks

LZ-31200-70 Stopcock, two-way female luer lock. PVDF body with polypropylene insert

LZ-31200-80 Stopcock, three-way female luer lock. PVDF body with polypropylene insert



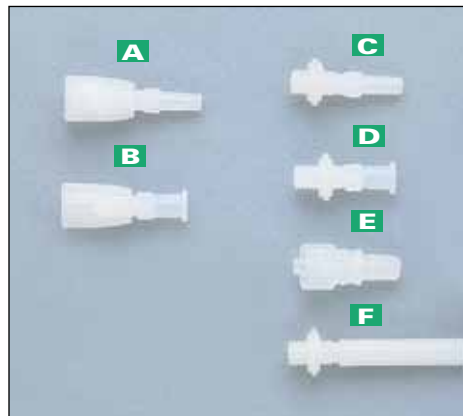
31200-70

High-Pressure Polycarbonate Stopcocks

LZ-30526-32 Stopcock, two-way male luer lock x female luer. Rated up to 1050 psi (72.9 bar). Pack of 10

LZ-30526-34 Stopcock, female luer (2) x male luer lock. Rated up to 1050 psi (72.9 bar). Pack of 10

Tefzel® Adapters



These adapters connect your micro tubing to standard size tubing or to luer fitting systems. They are designed for use with small tubing fittings. Adapters with caps include zero dead volume PTFE cones and screw onto the fitting body. Adapters with 1/4"-28 UNF thread come with lock nuts and screw directly into existing fitting caps.

Adapters with Caps

Key	Catalog number	Description	Material	Price
A	TW-06471-80	Male luer fitting	Tefzel	
B	TW-06471-81	Female luer fitting	Tefzel	

Adapters with 1/4"-28 UNF Thread

Key	Catalog number	Description	Material	Price
C	TW-06471-90	Male luer fitting	Tefzel	
D	TW-06471-91	Female luer fitting	Tefzel	
E	TW-06471-85[†]	Male luer with lock	Tefzel	
F	TW-06471-92	1/4" OD pipe	Tefzel	
	TW-06471-93	1/8" OD pipe	Tefzel	
	TW-06471-94	1/16" OD tubing	Tefzel, 316 SS	

[†]Lock nut for 1/4"-28 UNF not included.

Inert 1/4"-28 UNF Tubing Adapters

- Ideal for use with solenoid valves
- No tools required for assembly to tubing!

These 1/4"-28 UNF tube end fittings and inverted cones provide a flangeless fitting that is economical and quick to assemble. Just slip the nut over the tubing, fit the cone to the end of tubing, and screw into the port. The inverted cone sits in a recess in the fitting to allow for maximum thread engagement. The fitting will stay sealed when finger tightened, even in shallow ports such as solenoid valves.



06471-58



06471-56

Specifications

Fitting body material: PTFE

Cone material: Tefzel®

Nut material: glass-filled polypropylene

Sealing pressure: rated to 500 psi (34.5 bar) for 1/16" OD tubing, 250 psi (17.2 bar) for 1/8" OD tubing

Catalog number	Tubing OD	Qty/pk	Price/pk
Inverted cones			
TW-06471-56	1/16"	10	
TW-06471-57	1/8"		
1/4"-28 UNF male fittings			
TW-06471-58	1/16"	10	
TW-06471-59	1/8"		



Flared PTFE Tubing Assemblies with Bottom Seal Fittings

Save time with ready-to-use assemblies

- ¼"–28 flat-bottom port fittings perfect for many standard instrument connections
- Sterilizable assembly with continuous PTFE fluid path

These convenient tubing assemblies with ¼"–28 fittings connect to many instruments and meters. Assemblies feature ⅛" ID tubing with flared ends to provide a fluid path of continuous PTFE—process fluid purity is maintained. All assemblies may be sterilized with ethylene oxide.

Choose from two types of connectors: standard ¼"–28 fittings or the unique Click-N-Seal™ nut. With the Click-N-Seal, simply tighten until the nut clicks to ensure a secure fit—can't overtighten.



Specifications

Construction

Tubing: PTFE
Fitting: PC
Nut: PP
Seals: EPDM and 316 stainless steel

Temperature range: 40 to 120°F (4 to 49°C)

Max pressure: 80 psi (5.5 bar)

Tubing ID x OD	Total assembly length†	Catalog number	Price/ea	Catalog number	Price/pk of 5
Standard ¼"–28 connectors					
0.040" x 0.066" (1.0 x 1.7 mm)	18" (457 mm)	TW-96154-01		TW-96154-11	
	24" (610 mm)	TW-96154-02		TW-96154-12	
	36" (914 mm)	TW-96154-03		TW-96154-13	
0.062" x 0.125" (1.6 x 3.2 mm)	18" (457 mm)	TW-96154-21		TW-96154-31	
	24" (610 mm)	TW-96154-22		TW-96154-32	
	36" (914 mm)	TW-96154-23		TW-96154-33	
Click-N-Seal ¼"–28 connectors					
0.040" x 0.066" (1.0 x 1.7 mm)	18" (457 mm)	TW-96154-04		TW-96154-14	
	24" (610 mm)	TW-96154-05		TW-96154-15	
	36" (914 mm)	TW-96154-06		TW-96154-16	
0.062" x 0.125" (1.6 x 3.2 mm)	18" (457 mm)	TW-96154-24		TW-96154-34	
	24" (610 mm)	TW-96154-25		TW-96154-35	
	36" (914 mm)	TW-96154-26		TW-96154-36	

†Additional lengths are available; contact an Application Specialist for details.

PTFE In-Line Filters

- Remove particulates from fluid to protect your solenoid valves
- All PTFE construction for harsh chemical applications

In-line filters have either a ¼"–28 UNF female port to take standard ¼"–28 UNF flat-bottom fittings or a bared fitting suitable for soft-wall tubing. A version is also available with cap type connectors, suitable for rigid tubing up to 4-mm OD. Replacement PTFE filter discs are available for each filter, too.



Catalog number	Porosity	Pressure rating	Connection type	Price	Replacement filters		
					Catalog number	Qty/pk	Price/pk
TW-06473-80	100 µm	50 psi (3.4 bar)	¼"–28 UNF or 1- to 4-mm OD compression		—	—	—
TW-06473-82	25 µm	50 psi (3.4 bar)	¼"–28 UNF		TW-06473-85	20	

Filler/Dispensing Nozzles

Maximize the speed, precision, and accuracy of dispensing and filling applications

- Minimize splashing and dripping when dispensing into narrow- or wide-mouth containers
- Dimensional tolerances of ±0.05% for assured repeatability



These nozzles combine the ease of plastic components with the accuracy and reliability of stainless steel filler needles. Tight dimensional tolerances help to ensure precision in your dispensing applications. Nozzles feature a 316L stainless steel needle and a polycarbonate base with hose barb adapter. Materials meet FDA, USDA and USP Class VI requirements. All filler nozzles are sterilizable by ethylene oxide, autoclaving, or gamma irradiation.

Catalog number	Tubing ID	Price
TW-30619-06	½"	
TW-30619-01	⅛"	
TW-30619-07	⅜"	
TW-30619-02	⅜"	
TW-30619-08	¼"	
TW-30619-03	⅝"	
TW-30619-09	⅜"	
TW-30619-04	½"	
TW-30619-10	⅝"	
TW-30619-05	¾"	

Basket-Tip Filler Nozzles

Reduce foaming and splashing

- Lower costs for cleaning, sterilization, and validation

NEW

These nozzles offer the benefits of the standard filler/dispensing nozzles by combining the ease of single-use plastic components with the accuracy and reliability of stainless steel filler needles. Plus, nozzles feature a basket needle tip that has two outlets angled at 10° to split the flow into two streams, forcing the fluid to gently cascade down the sides of your container. This basket tip is especially useful for liquids that have issues with foaming or splashing and/or maintaining a fluid column.

Tight dimensional tolerances help to ensure precision in your dispensing applications. Nozzles feature a 316L stainless steel needle and a base with hose barb adapter. Materials meet FDA, USDA and USP Class VI requirements. All filler nozzles are sterilizable by ethylene oxide, autoclaving, or gamma irradiation.



Catalog number	Tubing ID	Price
TW-30619-11	⅛"	
TW-30619-17	⅜"	
TW-30619-12	⅜"	
TW-30619-18	¼"	
TW-30619-13	⅝"	
TW-30619-19	⅜"	
TW-30619-15	¾"	

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