Cole-Parmer®
an antylia scientific company

Hose Barb Fittings

Straight Reducers

Before Choosing a Fixture, Consider the Following

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).

When material compatibility is essential, fluids that do not mesh well with fitting materials can lead to leaks or harm to the system. For extremely corrosive fluids, PTFE fittings are the optimal choice.

When temperature and pressure are essential, ensure that the fittings you select are suitable for your operating conditions. It's important to note that most fittings cannot operate at their maximum temperature and maximum pressure ratings simultaneously.

Use these high-quality PVC-free fittings in biomedical, pharmaceutical, electronic, and other critical-use applications.

APPLICATIONS

- Bioprocess, life science, and pharmaceutical industries
- General-purpose, laboratory, and single-use applications to connect tubing with the rest of your system

FEATURES/BENEFITS

- Free technical application support available to determine which connector type is needed for your application
- Quick and easy assembly without tools
- Single barb design tightly "grips" the tubing

CERTIFICATION

Cole-Parmer will provide a certificate of compliance FREE at your request where applicable.

USA	+1.800.323.4340
	+1.847.549.7600
Canada	+1.800.363.5900
China	86.21.5109.9909
France	+33 (0) 1486 37800
Germany	+49 (0) 9377 92030
India	+1.800.266.1244
Italy	+39 (0) 1313 89513
UK	+44 (0) 1480.272279
All others	+1.847.549.7600

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Materials

PVDF (Kynar®)

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

Its trade name, Kynar, often refers to PVDF (polyvinylidene fluoride). PVDF is a high-purity engineering thermoplastic with excellent chemical resistance, abrasion resistance, flame resistance, and UV stability. PVDF is widely used for chemical tank liners and semiconductor equipment components.

Polypropylene (PP)

- Very good chemical resistance
- Temperature range: -13 to 66 °C (9 to 180 °F)
- Sterilize by ethylene oxide or gamma irradiation

Polypropylene is resistant to weak inorganic acids, organic acids, alcohols, ammonia, and oxidizing salts and has limited resistance to aliphatic hydrocarbons, esters, ketones, and ethers. Polypropylene is generally not recommended for aromatic and halogenated hydrocarbons.

Nylon

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

Nylon is resistant to various chemicals, especially aliphatic and aromatic hydrocarbons, alkalis, greases, fuels, lubricants, and ketones.

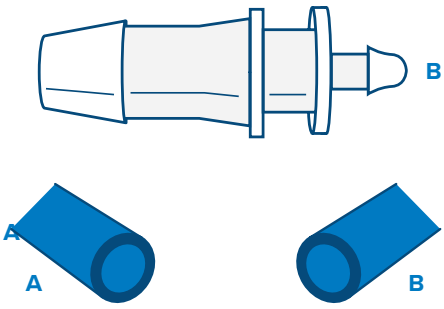
Fittings

For additional options and complete offering, visit **coleparmer.com**.

Straight

Barbed

Connector



Input OD to Output OD

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Materials (continued)

Stainless Steel

- Good chemical resistance
- Temperature range: -40 to 93 °C (-40 to 200 °F)
- Sterilize by ethylene oxide, autoclave or gamma irradiation

Stainless steel is generally resistant to acidic corrosion. However, exact resistance levels will depend on the steel in use, concentration, types of acid, and environmental temperature. Generally, stainless steel reacts with acids by forming hydrogen gas, while alkalis have no effect. However, it is important to note that stainless steel will corrode when exposed to chloride ions, such as those found in salt water or sea air.

High-Density Polyethylene (HDPE)

- Good chemical resistance
- Temperature range: -53 to 65 °C (65 to 150 °F)
- Sterilize by ethylene oxide only

Polyethylene is an inert plastic and is not subject to attack by most chemicals. However, those substances that do attack the polyethylene may still be “packageable” under certain conditions. Generally, high-density polyethylene is more chemically resistant than low-density.

Specification and Ordering Table

Tubing ID (AxB)	Material	Item number	Pack size
3/32" x 1/16"	Nylon	50108-47	10/pk
3/32" x 1/16"	Natural Kynar®	50108-48	10/pk
3/32" x 1/16"	Polypropylene	50108-49	10/pk
5/8" x 1/4"	Natural Kynar®	50108-50	10/pk
5/8" x 1/4"	Polypropylene	50108-51	10/pk
5/8" x 5/16"	Natural Kynar®	50108-52	10/pk
5/8" x 5/16"	Polypropylene	50108-53	10/pk
5/8" x 3/8"	Natural Kynar®	50108-54	10/pk
5/8" x 3/8"	Polypropylene	50108-55	10/pk
5/8" x 1/2"	Natural Kynar®	50108-56	10/pk
5/8" x 1/2"	Polypropylene	50108-57	10/pk
3/4" x 3/8"	Natural Kynar®	50108-58	10/pk
3/4" x 3/8"	Polypropylene	50108-59	10/pk
3/4" x 1/2"	Natural Kynar®	50108-60	10/pk
3/4" x 1/2"	Polypropylene	50108-61	10/pk

Specification and Ordering Table

Tubing ID (AxB)	Material	Item number	Pack size
1" x 5/8"	Natural Kynar®	50108-62	10/pk
1" x 5/8"	Polypropylene	50108-63	10/pk
1" x 3/4"	Natural Kynar®	50108-64	10/pk
1" x 3/4"	Polypropylene	50108-65	10/pk
1" x 1/2"	Natural Kynar®	50108-66	10/pk
1" x 1/2"	Polypropylene	50108-67	10/pk
5/32" x 3/32"	Nylon	50108-68	10/pk
5/32" x 3/32"	Natural Kynar®	50108-69	10/pk
5/32" x 3/32"	Polypropylene	50108-70	10/pk
5/32" x 3/32"	Stainless Steel	50108-71	10/pk
5/32" x 1/8"	Nylon	50108-72	10/pk
5/32" x 1/8"	Natural Kynar®	50108-73	10/pk
5/32" x 1/8"	Polypropylene	50108-74	10/pk
1/8" x 3/32"	Nylon	50108-75	10/pk
1/8" x 3/32"	Natural Kynar®	50108-76	10/pk
1/8" x 3/32"	Polypropylene	50108-77	10/pk
1/8" x 3/32"	Stainless Steel	50108-78	10/pk
1/8" x 1/16"	Nylon	50108-79	10/pk
1/8" x 1/16"	Natural Kynar®	50108-80	10/pk
1/8" x 1/16"	Polypropylene	50108-81	10/pk
3/16" x 3/32"	Polypropylene	50108-82	10/pk
3/16" x 3/32"	Nylon	50108-83	10/pk
3/16" x 1/16"	Natural Kynar®	50108-84	10/pk
3/16" x 1/16"	Polypropylene	50108-85	10/pk
3/16" x 1/8"	Nylon	50108-86	10/pk
3/16" x 1/8"	Natural Kynar®	50108-87	10/pk
3/16" x 1/8"	Polypropylene	50108-88	10/pk
1/4" x 3/32"	Natural Kynar®	50108-89	10/pk
1/4" x 3/32"	Polypropylene	50108-90	10/pk
1/4" x 1/16"	Natural Kynar®	50108-91	10/pk
1/4" x 1/16"	Polypropylene	50108-92	10/pk
1/4" x 5/32"	Nylon	50108-93	10/pk
1/4" x 5/32"	Natural Kynar®	50108-94	10/pk
1/4" x 5/32"	Polypropylene	50108-95	10/pk
1/4" x 1/8"	HDPE	50108-96	10/pk

Tubing ID (AxB)	Material	Item number	Pack size
1/4" x 1/8"	Nylon	50108-97	10/pk
1/4" x 1/8"	Natural Kynar®	50108-98	10/pk
1/4" x 1/8"	Polypropylene	50108-99	10/pk
1/4" x 3/16"	Nylon	50109-00	10/pk
1/4" x 3/16"	Natural Kynar®	50109-01	10/pk
1/4" x 3/16"	Polypropylene	50109-02	10/pk
5/16" x 5/32"	Natural Kynar®	50109-03	10/pk
5/16" x 5/32"	Polypropylene	50109-04	10/pk
5/16" x 1/8"	Polypropylene	50109-05	10/pk
5/16" x 3/16"	Natural Kynar®	50109-06	10/pk
5/16" x 3/16"	Polypropylene	50109-07	10/pk
5/16" x 1/4"	Nylon	50109-08	10/pk
5/16" x 1/4"	Natural Kynar®	50109-09	10/pk
5/16" x 1/4"	Polypropylene	50109-10	10/pk
3/8" x 5/32"	Natural Kynar®	50109-11	10/pk
3/8" x 5/32"	Polypropylene	50109-12	10/pk
3/8" x 1/8"	Natural Kynar®	50109-13	10/pk
3/8" x 1/8"	Polypropylene	50109-14	10/pk
3/8" x 1/4"	Nylon	50109-15	10/pk
3/8" x 1/4"	Natural Kynar®	50109-16	10/pk
3/8" x 1/4"	Polypropylene	50109-17	10/pk
3/8" x 5/16"	Natural Kynar®	50109-18	10/pk
3/8" x 5/16"	Polypropylene	50109-19	10/pk
1/2" x 1/4"	Natural Kynar®	50109-20	10/pk
1/2" x 1/4"	Polypropylene	50109-21	10/pk
1/2" x 5/16"	Natural Kynar®	50109-22	10/pk
1/2" x 5/16"	Polypropylene	50109-23	10/pk
1/2" x 3/8"	Natural Kynar®	50109-24	10/pk
1/2" x 3/8"	Polypropylene	50109-25	10/pk