Cole-Parmer® Hose Barb Fittings
Cleanroom Cross Unions

Cole-Parmer®

Easily combine or split fluid flow using cross union fittings. A single barb on each end of the fitting creates a tight seal to keep the tubing in place.

Cleanroom packed fittings are manufactured, double bagged, and sealed in an ISO Class 7 cleanroom to ensure that the integrity is not compromised. An ISO Class 7 cleanroom utilizes HEPA filtration systems to maintain air cleanliness levels of less than 10,000 particles of 0.5 µm or larger per cubic foot.

APPLICATIONS

- Bioreactor recirculation, pump manifold, and fluid routing and splitting
- General-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Single barb design tightly “grips” the tubing
- Quick and easy assembly without tools
- Manufactured in an ISO Class 7 cleanroom to minimize contamination by pollutants

CERTIFICATION

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

WARNING: This product is not approved or intended for, and should not be used for, medical, clinical, surgical, or other patient-oriented applications.

USA	+1.800.323.4340	UK	+44 (0) 1480.272279
	+1.847.549.7600		+33 (0) 1.87.170142*
Canada	+1.800.363.5900		+49 (0) 937.792030*
China	86.21.5109.9909	Italy	+39.02.84349215
India	+1.800.266.1244	All others	+1.847.549.7600

Cole-Parmer®

coleparmer.com

*Inquiries from Germany and France are now handled in our St. Neots office by native-speaking experts.

Materials

PVDF (Kynar®)

- Excellent chemical resistance
- Temperature range: -35 to 135 °C (-31 to 275 °F)
- Sterilize by ethylene oxide (EtO) or autoclave
- FDA 21 CFR 177.1520(c), 21 CFR 176.170(c), 21 CFR 177.2600(c)(4)(i), NSF/ANSI Standard 51 and 61, and RoHS compliant

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)

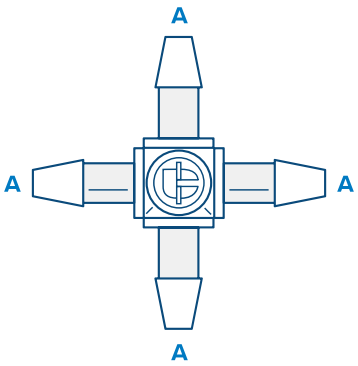
- Very good chemical resistance
- Temperature range: -23 to 66 °C (-9 to 150 °F)
- Sterilize by ethylene oxide (EtO) or gamma irradiation
- FDA 21 CFR 177.1520(a)(3)(i) and (c)3.1a and RoHS compliant

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.

Fittings

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

Barbed



Cross Union Fitting

Specification and Ordering Table

Tubing ID (A)	Material	Item Number	Pack Size
1/16"	PVDF	50116-57	10
1/16"	Polypropylene	50116-63	10
1/8"	PVDF	50116-58	10
1/8"	Polypropylene	50116-64	10
3/16"	PVDF	50116-59	10
3/16"	Polypropylene	50116-65	10
1/4"	PVDF	50116-60	10
1/4"	Polypropylene	50116-66	10
3/8"	PVDF	50116-61	10
3/8"	Polypropylene	50116-67	10
1/2"	PVDF	50116-62	10
1/2"	Polypropylene	50116-68	10