

Cole-Parmer® Port Discs

Cleanroom Fittings

Cole-Parmer®



Port disc fittings provide a reliable, flexible way to integrate fluid connections directly into single-use bags. Ultrasonic, radio frequency, or thermal weld port discs to polyethylene bioprocess and bioreactor bags to easily transfer fluids.

The flexible disc curves with the bag, minimizing the risk of it cracking with sideload. Available with one fitting side and one flat base, these port discs allow quick, secure attachment to bags for streamlined system assembly. For applications requiring flow splitting or dual access, port discs with opposing fittings enable ports on both sides of the bag without added complexity. Select designs feature mini-dome protrusions, also called dimples, on the base to enhance weld strength. These dimples increase the amount of material available to melt during welding, creating a stronger, more consistent bond and improving overall bag integrity.

Discs 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.



CERTIFICATION

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

APPLICATIONS

- Cell culture, drug compounding, and bioprocessing fluid transfer
- General-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Manufactured in an ISO Class 7 cleanroom to minimize contamination by pollutants
- Weld to single-use bags to transfer biological fluids, viscose fluids, and powders
- Ultrasonic, radio frequency, or thermal weld port disks to polyethylene bags
- PVC-Free

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 +1.847.549.7600
Canada	+1.800.363.5900
China	86.21.5109.9909
India	+1.800.266.1244

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	+49 (0) 937.792030*
Italy	+39.02.84349215
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

Engage™ 8402

- Good chemical resistance
- Max temperature: 96 °C (205 °F)
- Sterilize by gamma irradiation
- FDA 21 CFR 177.1520(c) 3.2c and 21 CFR 176.170(c) and RoHS compliant

This ethylene-octene copolymer offers excellent performance in durable, flexible injection molded industrial and consumer goods. This provides high clarity in products requiring visual inspection and allows hot runner molds to enhance production efficiency. In addition, its low density can help control resin and production costs, while reducing the weight of the end products.

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.

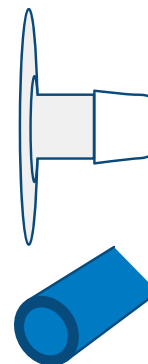
Polypropylene (PP)

- 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

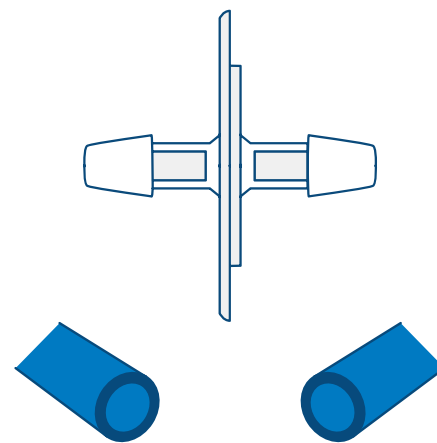
Polypropylene is resistant to weak inorganic acids, organic acids, alcohols, ammonia, and oxidizing salts and has limited resistance to aliphatic hydrocarbons, esters, ketones, and ethers. Polypropylene is generally not recommended for aromatic and halogenated hydrocarbons.

Fittings

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



Flat Plate Port Disc Fitting



Dual-Sided Port Disc Fitting

Specification and Ordering Table

Connection Type	Base Design	Connection Dimensions	Material	Weld Feature	Item Number	Pack Size
Female Luer	Flat Plate	—	Engage 8402	No Dimples	50117-11	10
Threaded		38-400 1"	PVDF	No Dimples	50116-89	10
Threaded		38-400 1"	Polypropylene	No Dimples	50116-90	10
Hose Barb		1/8"	Engage 8402	Mini-Domes	50116-73	10
		1/8"	PVDF	Mini-Domes	50116-83	10
		1/8"	Engage 8402	No Dimples	50117-05	10
		1/8"	PVDF	No Dimples	50117-16	10
		5/32"	Engage 8402	Mini-Domes	50116-72	10
		5/32"	PVDF	Mini-Domes	50116-82	10
		5/32"	Engage 8402	No Dimples	50117-04	10
		5/32"	PVDF	No Dimples	50117-15	10
		3/16"	Engage 8402	Mini-Domes	50116-74	10
		3/16"	PVDF	Mini-Domes	50116-84	10
		3/16"	Engage 8402	No Dimples	50117-06	10
		3/16"	PVDF	No Dimples	50117-17	10
		1/4"	Engage 8402	Mini-Domes	50116-75	10
		1/4"	PVDF	Mini-Domes	50116-85	10
		1/4"	Engage 8402	No Dimples	50117-07	10
		1/4"	PVDF	No Dimples	50117-18	10
		1/4"	Polypropylene	No Dimples	50117-24	10
		5/16"	Engage 8402	Mini-Domes	50116-76	10
		5/16"	PVDF	Mini-Domes	50116-86	10
		5/16"	Engage 8402	No Dimples	50117-08	10
		5/16"	PVDF	No Dimples	50117-19	10
		3/8"	Engage 8402	Mini-Domes	50116-77	10
		3/8"	PVDF	Mini-Domes	50116-87	10
		3/8"	Engage 8402	No Dimples	50117-09	10
		3/8"	PVDF	No Dimples	50117-20	10
		3/8"	Polypropylene	No Dimples	50117-25	10
		1/2"	Engage 8402	Mini-Domes	50117-78	10
1/2"	PVDF	Mini-Domes	50116-88	10		

Connection Type	Base Design	Connection Dimensions	Material	Weld Feature	Item Number	Pack Size
Hose Barb	Flat Plate	1/2"	Engage 8402	No Dimples	50117-10	10
		1/2"	PVDF	No Dimples	50117-21	10
		1/2"	Polypropylene	No Dimples	50117-26	10
		5/8"	Engage 8402	Mini-Domes	50116-69	10
		5/8"	PVDF	Mini-Domes	50116-79	10
		5/8"	Engage 8402	No Dimples	50117-01	10
		5/8"	PVDF	No Dimples	50117-12	10
		5/8"	Polypropylene	No Dimples	50117-22	10
		3/4"	Engage 8402	Mini-Domes	50116-70	10
		3/4"	PVDF	Mini-Domes	50116-80	10
		3/4"	Engage 8402	No Dimples	50117-02	10
		3/4"	PVDF	No Dimples	50117-13	10
		1"	Engage 8402	Mini-Domes	50116-71	10
		1"	PVDF	Mini-Domes	50116-81	10
		1"	Engage 8402	No Dimples	50117-03	10
		1"	PVDF	No Dimples	50117-14	10
		1"	Polypropylene	No Dimples	50117-23	10
		Dual-Sided	1/8"	Engage 8402	No Dimples	50116-91
	3/16"		Engage 8402	No Dimples	50116-92	10
	1/4"		Engage 8402	No Dimples	50116-93	10
	1/4"		PVDF	No Dimples	50116-96	10
	1/4"		Polypropylene	No Dimples	50116-99	10
	3/8"		Engage 8402	No Dimples	50116-94	10
	3/8"		PVDF	No Dimples	50116-97	10
	1/2"		Engage 8402	No Dimples	50116-95	10
	1/2"		PVDF	No Dimples	50116-98	10
	1/2"		Polypropylene	No Dimples	50117-00	10