

RevolveSD™

16 Series

RevolveSD enables sterile disconnection of single-use biopharma manufacturing systems. With an easy twist of the connector shell, sterility is maintained on both sides of the system during the disconnection process. The RevolveSD connector includes a protective locking tab to help reduce the chance of accidental disconnection, and are designed to be irreversible, making it a true one-time disconnect.



SPECIFICATIONS

OPERATING PRESSURE

Connected: Up to 60 psi (4.1 bar), Up to 75 psi (5.17) bar for 48 hours

Disconnected: Up to 10 psi, 0.7 bar

OPERATING TEMPERATURE

34°F to 104°F (1°C to 40°C)

TERMINATIONS

3/4" and 1" Hose Barb, 1 1/2" Sanitary (19.0 mm, 25.4 mm, 38.1 mm)

FLOW PATH MATERIALS

Main Components: Polyphenylsulfone (off white)

O-Rings: Silicone (clear), platinum-cured

OTHER MATERIALS

Shell: Polyvinylidene fluoride (black)

Housing: Polycarbonate (gray)

Protective Tab: Polycarbonate (gold)

STERILIZATION

Gamma: Up to 50kGy irradiation.

Autoclave: One cycle up to 266°F (130°C) for 60 minutes

WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.

FEATURES

- ✓ Remove & Revolve
- ✓ No Equipment Needed
- ✓ Bidirectional, Smooth Flow
- ✓ Irreversible Disconnect
- ✓ Chemical Compatibility
- ✓ Process Controls

BENEFITS

- Easy two-step process enabling on-demand sterile disconnection
- Simplify your disconnection process by eliminating required support equipment or tools
- Optimized flow path design means enhanced smoothness and size to minimize turbulence and restriction
- True one-time disconnect prevents chance of incidental reconnection that could breach process sterility
- Increased compatibility to harsh chemicals through carefully selected materials and no metal in flow path
- Locking tab prevents risk of accidental disconnect & new valve technology enhances sealing during disconnect process

TYPICAL FLOW RATE

Cv Value Range: 20-30

Cv values represent the approximate expected flow rate in gallons per minute of water at room temperature for a 1 PSI pressure drop. The flow is generally constrained by the smallest diameter, which in some cases will be the termination diameter and not the Nominal Flow Path.

DID YOU KNOW

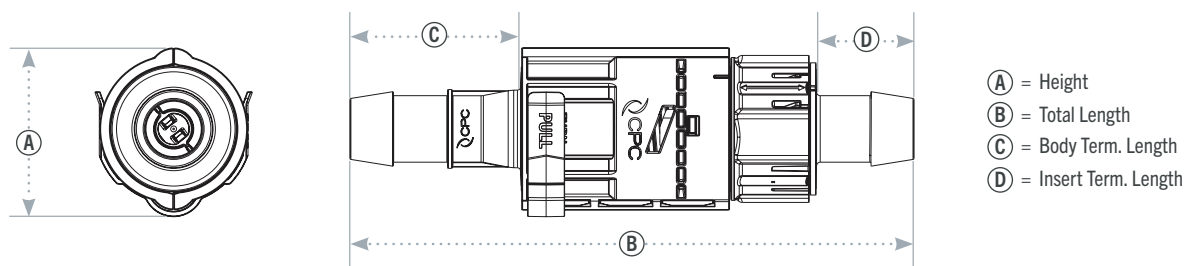
Termination and flow path are made from PPSU to allow for increased chemical compatibility to handle harsh chemicals like liquid nitrogen and Dimethyl sulfoxide (DMSO).

NOTE

Validation and Extractables data can be requested at cpc-bio.com/RevolveSD

RevolveSD™ 16 SERIES DIMENSIONS

PRODUCT DIMENSIONS



POLYPHENYLSULFONE with gold tab For autoclave or gamma irradiation applications.



PART NO.	BODY TERMINATION	INSERT TERMINATION	(A) HEIGHT	(B) TOTAL LENGTH	(C) BODY TERM. LENGTH	(D) INSERT TERM. LENGTH
ADL17112-22112	3/4" HOSE BARB (19.0 mm)	3/4" HOSE BARB (19.0 mm)	2.74" (68.5 mm)	8.96" (227.6 mm)	2.70" (68.5 mm)	1.50" (38.1 mm)
ADL17116-22112	1" HOSE BARB (25.4 mm)	3/4" HOSE BARB (19.0 mm)	2.74" (68.5 mm)	9.08" (230.7 mm)	2.70" (68.5 mm)	1.59" (40.4 mm)
ADL17116-22116	1" HOSE BARB (25.4 mm)	1" HOSE BARB (25.4 mm)	2.74" (68.5 mm)	9.16" (232.7 mm)	2.79" (70.9 mm)	1.59" (40.4 mm)
ADL33124-22112	1-1/2" SANITARY (38.1 mm)	3/4" HOSE BARB (19.0 mm)	2.74" (68.5 mm)	8.60" (218.6 mm)	2.70" (68.5 mm)	1.13" (28.7 mm)
ADL33124-22116	1-1/2" SANITARY (38.1 mm)	1" HOSE BARB (25.4 mm)	2.74" (68.5 mm)	8.69" (220.6 mm)	2.79" (70.9 mm)	1.13" (28.7 mm)

RevolveSD™ 16 SERIES DISCONNECTION PROCEDURE

REMOVE



Pull the protective **locking tab** and discard

REVOLVE



Turn the **shell** twice until you hear a "**click**" sound to make the disconnection

NOTE: Depressurize flow path prior to and during disconnection for best operator experience

DESIGN FOR LIFE



WARNING: The customer is solely responsible for determining the necessary or most suitable product or service for any particular use case or application. All such risks are assumed by the customer. Specifications subject to change without notice.
WARRANTY: For product warranty information, please contact: info@cpc-bio.com or +1 800-519-7633.
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