



Bio-Simplex[®] Polypropylene Carboys for Biopharmaceutical Applications

Bio-Simplex[®] Polypropylene Carboys provide advanced liquid handling and solution storage for general laboratory, process development and bioproduction applications. Saint-Gobain offers six popular sizes of carboys: 2.5 L, 5 L, 10 L, 20 L, 40 L and 75 L manufactured from high quality polypropylene. The Polypropylene carboy is suitable for temperatures from -40°C to 121°C, not made with BPA, gamma compatible and is USP Class VI compliant.

The carboy's body includes updated design features that allow the user to easily hold, lift, fill, and pour while the versatile EZ Top[®] Container Closure technology provides interchangeable and leak-proof top connections. Single-use EZ Top Assemblies for aseptic fluid transfer, handling and sealing are available in a choice of two resins: C-Flex[®] thermoplastic elastomer and Sani-Tech[®] high-purity platinum-cured silicone. Custom closure assembly designs are available upon request. The Bio-Simplex[®] Carboys are available with or without spigot. They also feature easy-to-read certified graduation marks with $\pm 5\%$ accuracy, large molded marks for clearly identifiable volume and material. The Bio-Simplex system-carboy, cap, and spigot is autoclavable.

Features / Benefits

- Slender ergonomic body design requiring less space in the laboratory
- Large top handles for full hand grip
- Bottom handles for secure grip when holding and transporting
- Minimum dead volume for maximum solution recovery
- Wide mouth for easy filling and cleaning
- Volume and material identification marks
- Large, easy to read graduation marks with $\pm 5\%$ accuracy
- Open/closed version of cap with replaceable gasket
- Autoclavable spigot with interchangeable option

Bio-Simplex® Polypropylene Carboys

Catalog No.	Description	Capacity, L	Spigot	Cap Size In (mm)	Qty/Pack
DCB0280	2.5 L Bio-Simplex Carboy with Closed Cap	2.5	No	3.15 (80)	1
DCB0580	5 L Bio-Simplex Carboy with Closed Cap	5	No	3.15 (80)	1
DCB0580S	5 L Bio-Simplex Carboy with Closed Cap and Spigot	5	Yes	3.15 (80)	1
DCB1080	10 L Bio-Simplex Carboy with Closed Cap	10	No	3.15 (80)	1
DCB1080S	10 L Bio-Simplex Carboy with Closed Cap and Spigot	10	Yes	3.15 (80)	1
DCB20120	20 L Bio-Simplex Carboy with Closed Cap	20	No	4.7 (120)	1
DCB20120S	20 L Bio-Simplex Carboy with Closed Cap and Spigot	20	Yes	4.7 (120)	1
DCB40120	40 L Bio-Simplex Carboy with Closed Cap	40	No	4.7 (120)	1
DCB40120S	40 L Bio-Simplex Carboy with Closed Cap and Spigot	40	Yes	4.7 (120)	1
DCB75120	75 L Bio-Simplex Carboy with Closed Cap	75	No	4.7 (120)	1

Bio-Simplex® Carboy and Spigot Accessories

Catalog No.	Description	Cap Size In (mm)	Qty/Pack
DEZ080CT	80 mm, Closed Top Cap, White	3.15 (80)	2
DEZ080OT	80 mm, Open Top Cap, White with Plug	3.15 (80)	2
DEZ120CT	120 mm, Closed Top Cap, White	4.7 (120)	2
DEZ120OT	120 mm, Open Top Cap, White with Plug	4.7 (120)	2
DEZ120AC	120 mm to 80 mm Adapter Cone, White		1
DCB00SP	Spigot for Carboys		2
DCB000C	Spigot Fitting with Closed Cap		1
DCB250S	Spigot Fitting with 1/4" Hose Barb		1
DCB375S	Spigot Fitting with 3/8" Hose Barb		1
DCB500S	Spigot Fitting with 1/2" Hose Barb		1
DCB750S	Spigot Fitting with 3/4" Hose Barb		1
DCB750T	Spigot Fitting with 3/4"TC Sanitary Connector		1

EZ Top® Container Closure Assemblies for Bio-Simplex® carboys are available in C-Flex® thermoplastic elastomer or Sani-Tech® silicone. See page 2 for further details.

EZ Top® Container Closure Assemblies

The EZ Top® Container Closure is used to create a complete container assembly when combined with cap and container. This economical assembly, designed for single use, can successfully replace stainless steel closures and eliminate costs such as cleaning, validation and assembly, and the contamination from repeated use.

EZ Top® Container Closures using C-Flex® TPE or Sani-Tech® Silicone Materials

EZ Top® Container Closures can be manufactured from C-Flex® pharmaceutical grade resin and tubing or fully characterized Class VI high-purity, platinum-cured Sani-Tech® silicone. Both ensure an unobstructed fluid path, extremely low level of extractables, and provide an elastomeric seal against glass, plastic, and metal surfaces. The one-piece construction eliminates product loss and contamination due to loose connection. The smooth inner bore eliminates risk of product entrapment and buildup.

EZ Top® Container Closures allow easy retrofit of your existing glass or plastic carboys for aseptic fluid transfer, sampling or sealing. C-Flex® Closures contain tubing with standard plug and fitting, a Bio-Simplex® Flex Joint®, 0.2 µm vent filter, and cap. Closure inserts of Sani-Tech® silicone are available with or without silicone tubing or sanitary dip tubes. Standard two or three port configurations are available to fit all sizes of Bio-Simplex carboys.

**Standard 2 & 3 Port EZ Top® Container Closures
Using C-Flex® TPE or Sani-Tech® Silicone Materials**

Part Number	EZ Top® Material	Container Size	Tubing Size In (mm)	Number of Ports	Qty/Pack
DCB05L-2EZ-CF	C-Flex	5 L	3/8 x 5/8 (9.5 x 15.8)	2	2
DCB10L-2EZ-CF	C-Flex	10 L	3/8 x 5/8 (9.5 x 15.8)	2	2
DCB20L-2EZ-CF	C-Flex	20 L*	3/8 x 5/8 (9.5 x 15.8)	2	2
DCB40L-2EZ-CF	C-Flex	40 L*	3/8 x 5/8 (9.5 x 15.8)	2	2
DCB05L-2EZ-ST	Sani-Tech Silicone	5 L	3/8 x 5/8 (9.5 x 15.8)	2	2
DCB10L-2EZ-ST	Sani-Tech Silicone	10 L	3/8 x 5/8 (9.5 x 15.8)	2	2
DCB20L-2EZ-ST	Sani-Tech Silicone	20 L*	3/8 x 5/8 (9.5 x 15.8)	2	2
DCB40L-2EZ-ST	Sani-Tech Silicone	40 L*	3/8 x 5/8 (9.5 x 15.8)	2	2
DCB75L-2EZ-ST	Sani-Tech Silicone	75 L*	3/8 x 5/8 (9.5 x 15.8)	2	2
DCB05L-3EZ-CF	C-Flex	5 L	3/8 x 5/8 (9.5 x 15.8)	3	3
DCB10L-3EZ-CF	C-Flex	10 L	3/8 x 5/8 (9.5 x 15.8)	3	3
DCB20L-3EZ-CF	C-Flex	20 L*	3/8 x 5/8 (9.5 x 15.8)	3	3
DCB40L-3EZ-CF	C-Flex	40 L*	3/8 x 5/8 (9.5 x 15.8)	3	3
DCB05L-3EZ-ST	Sani-Tech Silicone	5 L	3/8 x 5/8 (9.5 x 15.8)	3	3
DCB10L-3EZ-ST	Sani-Tech Silicone	10 L	3/8 x 5/8 (9.5 x 15.8)	3	3
DCB20L-3EZ-ST	Sani-Tech Silicone	20 L*	3/8 x 5/8 (9.5 x 15.8)	3	3
DCB40L-3EZ-ST	Sani-Tech Silicone	40 L*	3/8 x 5/8 (9.5 x 15.8)	3	3
DCB75L-3EZ-ST	Sani-Tech Silicone	75 L*	3/8 x 5/8 (9.5 x 15.8)	3	3

* 20 L, 40 L and 75 L EZ Top® Container Closures include Adapter Cone. C-Flex® Assemblies include Bio-Simplex® FlexJoint®, Sani-Tech® Assemblies include overmolded sinker. All EZ Top Container Closures also come with a cap plug.

Bio-Simplex®, C-Flex®, EZ Top®, FlexJoint® and Sani-Tech® are registered trademarks of Saint-Gobain Performance Plastics Corporation.

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