2D Labtainer BioProcess Container (BPC) systems

Small-volume liquid handling systems for cell culture and bioprocessing

Thermo Scientific™ Labtainer™ BioProcess Containers (BPCs) effectively address small-volume liquid handling needs. They range in size from 50 mL to 50 L, with a variety of standard configurations to meet most application needs. These Labtainer BPCs are space saving, ergonomic, and constructed of Thermo Scientific™ ASI™ 26/77 and ASI™ 28 films. Product configurations cover a range of industry standard connection systems; handling systems are available for transport and storage.

Standard products

Standard Labtainer BPCs are stocked for immediate delivery and are fully supported by our process and product validation program. (For more information on our validation program, please refer to our ASI 26/77 and ASI 28 film validation guides.)

Standard configurations can be customized for optimal fit, form, and function using one of the industry's largest libraries of qualified components to address process-specific applications.
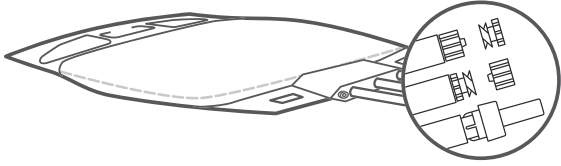
Whether in a standard or customized configuration, Labtainer BPCs are ideal for:

- Dispensing, packaging, and storing cell culture media, buffers, and process liquids

- Delivery of cell culture media or process liquids to small-scale bioproduction systems

- Bioreactor and fermentation feed, sampling, and harvest

- Chromatography feed and fraction collection

- Storage and transport of bulk intermediate products, process intermediates, vaccine conjugates, and other biological products

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ASI 26/77 chamber details

100 mL–1 L: Available with 3 ports only. Ports are welded into the BPC seam with various lengths and IDs.

2 L–20 L: Available with different port options and utilize a boat connector.
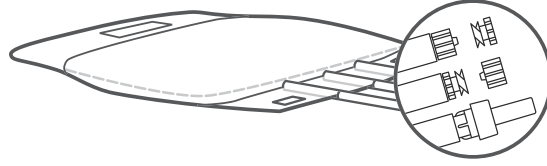

2 L, 3-port Labtainer

Chamber information

Volume	Empty BPC dimensions (L x W)
100 mL	16.0 x 10.0 cm (6.3 x 3.9 in.)
250 mL	16.0 x 13.5 cm (6.3 x 5.3 in.)
500 mL	25.8 x 13.7 cm (10.2 x 5.4 in.)
1 L	32.0 x 14.7 cm (12.6 x 5.8 in.)
2 L	30.5 x 15.2 cm (12.0 x 6.0 in.)
5 L	32.0 x 31.6 cm (12.6 x 12.4 in.)
10 L	32.0 x 56.5 cm (12.6 x 22.3 in.)
20 L	42.6 x 63.5 cm (16.8 x 25.0 in.)

ASI 28 chamber details

100 mL–1 L: Available with 1, 2, or 3 ports, depending on the chamber size. Ports are welded into the BPC seam with various lengths and IDs.

2 L–50 L: Available with different port options and utilize a boat connector.

1 L, 3-port Labtainer

Chamber information

Volume	Empty BPC dimensions (L x W)
100 mL	12.7 x 9.1 cm (5.0 x 3.6 in.)
250 mL	16.5 x 12.5 cm (6.5 x 4.9 in.)
500 mL	20.3 x 16.5 cm (8.0 x 6.5 in.)
1 L	24.9 x 19.8 cm (9.8 x 7.8 in.)
2 L	33.3 x 20.3 cm (13.1 x 8.0 in.)
5 L	31.5 x 32.0 cm (12.4 x 12.6 in.)
10 L	56.6 x 32.5 cm (22.3 x 12.8 in.)
20 L	63.3 x 42.7 cm (24.9 x 16.8 in.)
50 L	69.3 x 58.4 cm (27.3 x 23.0 in.)

Custom BPC options

Description	Details
Tubing type	C-Flex™ (ADCF in clear or white), silicone, PharMed™, or AdvantaFlex™
Tubing size	Specific lengths of 3.18–25.4 mm (1/8–1 in.) ID, depending on type of tubing chosen
Connectors	• Luer: 3.18–6.35 mm (1/8–1/4 in.) ID • CPC quick-connect: 6.35–19 mm (1/4–3/4 in.) ID • Steam-in-place connector: 6.35–19 mm (1/4–3/4 in.) ID • Tri-clamp: 3.18–25.4 mm (1/8–1 in.) ID • Mini tri-clamp: 6.35–12.7 mm (1/8–1/2 in.) ID • Aseptic connection and aseptic disconnection devices: all available sizes of Colder AseptiQuik™, Pall™ Kleenpak™, GE ReadyMate™ DAC
Others	• Needle-free sample port (Smartsite™ or Clave™ products) • Filter capsule (Millipore™, Pall™, Sartorius™, Domnick Hunter™, Meissner™ products)

Presentation (as dry BPC systems)

Description	Details
Outer packaging	Supplied "flat-packed"—two polyethylene outer layers
Label	• Description • Product code • Lot number • Expiration date on outer packaging and shipping container
Sterilization	Irradiation (25–40 kGy) inside outer packaging
Shipping container	Durable cardboard carton
Documentation	• Certificate of Analysis provided with each batch for each delivery • Certificate of irradiation

Outer support containers

Industry-standard Rubbermaid™ totes with corresponding lids are available. They can be used to protect Labtainer BPCs up to 20 L in size during use, transport, and storage. Use standard 50 L drums for 50 L Labtainers.

Tray with lid

Description	Dimensions (L x W x H)	Capacity	Rubbermaid Cat. No.	Cat. No.
Tray	66 x 46 x 15 cm (26 x 18 x 6 in.)	32.2 L	3508-WHITE	SV50163.01
Lid	66 x 46 cm (26 x 18 in.)	NA	3502-WHITE	SV50163.02
Flat-bottom LLDPE drum with lid	45 x 53 cm (18 x 21 in.)	50 L	NA	SV50076.02

Flat-bottom, linear low-density polyethylene (LLDPE) drum with lid

versaCART mobile accessory cart

Quickly configure and organize your fluid processing systems on the Thermo Scientific™ versaCART™ unit and maximize valuable cleanroom space and resources. The modular design of the versaCART unit allows users to quickly custom-configure single-use solutions for multiple biomanufacturing steps.

The slim design and ergonomic structure maximize floor space without compromising usefulness. Since the versaCART unit enables users to have required components and equipment on board, assignments are completed quickly and efficiently.
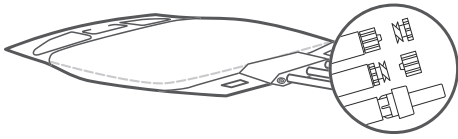

Description	Dimensions (H x D x W)	Weight (cart only)	Material
Cart only	89 x 69 x 142 cm (35 x 27 x 56 in.)	57 kg (125 lb)	304 L stainless steel
Cart and 200 L storage drum	89 x 69 x 142 cm (35 x 27 x 56 in.)	64 kg (140 lb)	304 L stainless steel polyethylene drum
Cart with 3 pivoting shelves	89 x 69 x 142 cm (35 x 27 x 56 in.)	111 kg (245 lb)	304 L stainless steel

Ordering information

2D Labtainer BPCs
3 ports

Line 1
Luer lock insert connection with 4.8 mm
(3/16 in.) barb, cap, and slide clamp
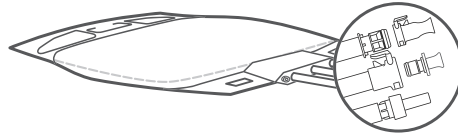Tubing: Ethyl vinyl acetate (EVA) + C-Flex 374

Line 2
Luer lock body connection with 4.8 mm
(3/16 in.) barb, cap, and slide clamp
Tubing: EVA + C-Flex 374

Line 3
Tubing: EVA, injection port

Size	Dimensions (L x W)	Cat. No.
100 mL	16 x 10 cm (6.3 x 3.9 in.)	**ASI 26/77 film** SS00024-I
250 mL	16 x 13.5 cm (6.3 x 5.3 in.)	**ASI 26/77 film** SS00025-I
500 mL	25.8 x 13.7 cm (10.2 x 5.4 in.)	**ASI 26/77 film** SS00026-I
1 L	32 x 14.7 cm (12.6 x 5.8 in.)	**ASI 26/77 film** SS00027-I
2 L	30.5 x 15.2 cm (12 x 6 in.)	**ASI 26/77 film** SS00028-I

3 ports

Line 1
MPC insert with 6.4 mm (1/4 in.) barb, cap,
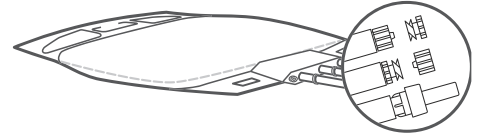and slide clamp
Tubing: EVA + C-Flex 374

Line 2
MPC body with 6.4 mm (1/4 in.) barb, plug,
and slide clamp
Tubing: EVA + C-Flex 374

Line 3
Tubing: EVA, injection port

Size	Dimensions (L x W)	Cat. No.
100 mL	16 x 10 cm (6.3 x 3.9 in.)	**ASI 26/77 film** SS00034-I
250 mL	16 x 13.5 cm (6.3 x 5.3 in.)	**ASI 26/77 film** SS00035-I
500 mL	25.8 x 13.7 cm (10.2 x 5.4 in.)	**ASI 26/77 film** SS00036-I
1 L	32 x 14.7 cm (12.6 x 5.8 in.)	**ASI 26/77 film** SS00037-I
2 L	30.5 x 15.2 cm (12 x 6 in.)	**ASI 26/77 film** SS00038-I

3 ports

Line 1
Luer lock insert connection with 4.1 mm
(5/32 in.) barb, cap, slide clamp, and
4.8 x 4.1 mm (3/16 x 5/32 in.) reducer
Tubing: C-Flex 374, length: 30 cm (12 in.)
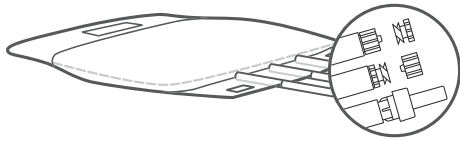ID x OD: 3.2 x 6.4 mm (0.13 x 0.25 in.)

Line 2
Luer lock body connection with 4.1 mm
(5/32 in.) barb, plug, slide clamp, and
4.8 x 4.1 mm (3/16 x 5/32 in.) reducer
Tubing: C-Flex 374, length: 30 cm (12 in.)
ID x OD: 3.2 x 6.4 mm (0.13 x 0.25 in.)

Line 3
Tubing: EVA, injection port

Size	Dimensions (L x W)	Cat. No.
100 mL	16 x 10 cm (6.3 x 3.9 in.)	**ASI 26/77 film** SS00029-I
250 mL	16 x 13.5 cm (6.3 x 5.3 in.)	**ASI 26/77 film** SS00030-I
500 mL	25.8 x 13.7 cm (10.2 x 5.4 in.)	**ASI 26/77 film** SS00031-I
1 L	32 x 14.7 cm (12.6 x 5.8 in.)	**ASI 26/77 film** SS00032-I
2 L	30.5 x 15.2 cm (12 x 6 in.)	**ASI 26/77 film** SS00033-I

3 ports

Line 1
Luer lock insert connection with 4.8 mm
(3/16 in.) barb and cap
Tubing: EVA
ID x OD: 6.0 x 7.9 mm (0.24 x 0.31 in.)

Line 2
Luer lock body connection with 0.48 cm
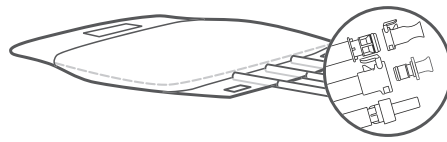(3/16 in.) barb and plug
Tubing: EVA
ID x OD: 6.0 x 7.9 mm (0.24 x 0.31 in.)

Line 3
Tubing: EVA, injection port

Size	Dimensions (L x W)	Cat. No.
100 mL	12.7 x 9.1 cm (5 x 3.6 in.)	**ASI 28 film** SS00001-I
250 mL	16.5 x 12.5 cm (6.5 x 4.9 in.)	**ASI 28 film** SS00002-I
500 mL	20.3 x 16.5 cm (8 x 6.5 in.)	**ASI 28 film** SS00003-I
1 L	24.9 x 19.8 cm (9.8 x 7.8 in.)	**ASI 28 film** SS00004-I
2 L	33.3 x 20.3 cm (13.1 x 8 in.)	**ASI 28 film** SS00005-I

3 ports

Line 1
MPC insert with 6.4 mm (1/4 in.) barb and cap
Tubing: EVA + C-Flex 374
ID x OD: 6.0 x 7.9 mm (0.24 x 0.31 in.)

Line 2
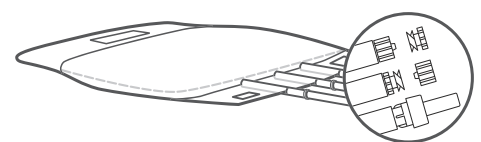MPC body with 6.4 mm (1/4 in.) barb and plug
Tubing: EVA
ID x OD: 6.0 x 7.9 mm (0.24 x 0.31 in.)

Line 3
Tubing: EVA, injection port

Size	Dimensions (L x W)	Cat. No.
100 mL	12.7 x 9.1 cm (5 x 3.6 in.)	**ASI 28 film** SS00011-I
250 mL	16.5 x 12.5 cm (6.5 x 4.9 in.)	**ASI 28 film** SS00012-I
500 mL	20.3 x 16.5 cm (8 x 6.5 in.)	**ASI 28 film** SS00013-I
1 L	24.9 x 19.8 cm (9.8 x 7.8 in.)	**ASI 28 film** SS00014-I
2 L	33.3 x 20.3 cm (13.1 x 8 in.)	**ASI 28 film** SS00015-I

3 ports

Line 1
Luer lock insert connection with 4.1 mm
(5/32 in.) barb, cap, slide clamp, and
4.8 x 4.1 mm (3/16 x 5/32 in.) reducer
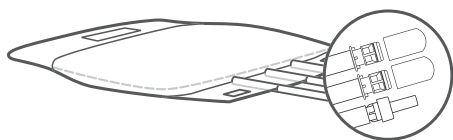Tubing: EVA + C-Flex 374, length: 30 cm (12 in.)
ID x OD: 3.2 x 6.4 mm (0.13 x 0.25 in.)

Line 2
Luer lock body connection with 4.1 mm
(5/32 in.) barb, plug, slide clamp, and
4.8 x 4.1 mm (3/16 x 5/32 in.) reducer
Tubing: EVA + C-Flex 374, length: 30 cm (12 in.)
ID x OD: 3.2 x 6.4 mm (0.13 x 0.25 in.)

Line 3
Tubing: EVA, injection port

Size	Dimensions (L x W)	Cat. No.
100 mL	12.7 x 9.1 cm (5 x 3.6 in.)	**ASI 28 film** SS00006-I
250 mL	16.5 x 12.5 cm (6.5 x 4.9 in.)	**ASI 28 film** SS00007-I
500 mL	20.3 x 16.5 cm (8 x 6.5 in.)	**ASI 28 film** SS00008-I
1 L	24.9 x 19.8 cm (9.8 x 7.8 in.)	**ASI 28 film** SS00009-I
2 L	33.3 x 20.3 cm (13.1 x 8 in.)	**ASI 28 film** SS00010-I

3 ports

Line 1
MPC insert with 6.4 mm (1/4 in.) barb and cap
Tubing: EVA
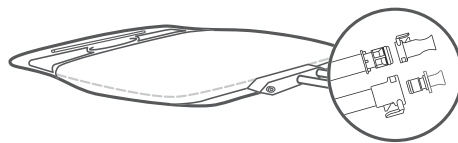ID x OD: 6 x 7.9 mm (0.24 x 0.31 in.)

Line 2
MPC insert with 6.4 mm (1/4 in.) barb and cap
Tubing: EVA
ID x OD: 6 x 7.9 mm (0.24 x 0.31 in.)

Line 3
Tubing: EVA, injection port

Size	Dimensions (L x W)	Cat. No.
100 mL	12.7 x 9.1 cm (5 x 3.6 in.)	**ASI 28 film** SS00066-I
250 mL	16.5 x 12.5 cm (6.5 x 4.9 in.)	**ASI 28 film** SS00067-I
500 mL	20.3 x 16.5 cm (8 x 6.5 in.)	**ASI 28 film** SS00068-I
1 L	24.9 x 19.8 cm (9.8 x 7.8 in.)	**ASI 28 film** SS00069-I
2 L	33.3 x 20.3 cm (13.1 x 8 in.)	**ASI 28 film** SS00070-I

3 ports

Line 1
MPC insert with 9.7 mm (0.38 in.) barb, cap, and pinch clamp
Tubing: C-Flex 374, length: 30 cm (12 in.)
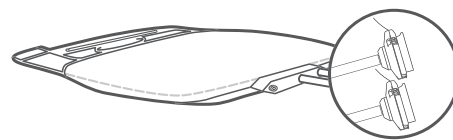ID x OD: 9.7 x 16 mm (0.38 x 0.63 in.)

Line 2
MPC body with 0.97 cm (0.38 in.) barb, plug, and pinch clamp
Tubing: C-Flex 374, length: 30 cm (12 in.)
ID x OD: 9.7 x 16 mm (0.38 x 0.63 in.)

Line 3
Injection port

Size	Dimensions (L x W)	Cat. No.
5 L	32 x 31.6 cm (12.6 x 12.4 in.)	**ASI 26/77 film** SS00039-I
10 L	32 x 56.5 cm (12.6 x 22.3 in.)	**ASI 26/77 film** SS00040-I
20 L	42.6 x 63.5 cm (16.8 x 25 in.)	**ASI 26/77 film** SS00041-I

3 ports

Line 1
ReadyMate connector and pinch clamp
Tubing: C-Flex 374, length: 30 cm (12 in.)
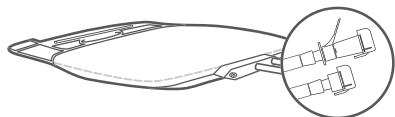ID x OD: 9.7 x 16 mm (0.38 x 0.63 in.)

Line 2
ReadyMate connector and pinch clamp
Tubing: C-Flex 374, length: 30 cm (12 in.)
ID x OD: 9.7 x 16 mm (0.38 x 0.63 in.)

Line 3
Injection port

Size	Dimensions (L x W)	Cat. No.
5 L	32 x 31.6 cm (12.6 x 12.4 in.)	**ASI 26/77 film** SS00106-I
10 L	32 x 56.5 cm (12.6 x 22.3 in.)	**ASI 26/77 film** SS00107-I
20 L	42.6 x 63.5 cm (16.8 x 25 in.)	**ASI 26/77 film** SS00108-I

3 ports

Line 1
Kleenpak insert and pinch clamp
Tubing: C-Flex 374, length: 30 cm (12 in.)
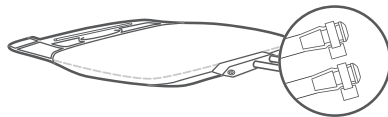ID x OD: 9.7 x 16 mm (0.38 x 0.63 in.)

Line 2
Kleenpak body and pinch clamp
Tubing: C-Flex 374, length: 30 cm (12 in.)
ID x OD: 9.7 x 16 mm (0.38 x 0.63 in.)

Line 3
Injection port

Size	Dimensions (L x W)	Cat. No.
5 L	32 x 31.6 cm (12.6 x 12.4 in.)	**ASI 26/77 film** SS00112-I
10 L	32 x 56.5 cm (12.6 x 22.3 in.)	**ASI 26/77 film** SS00113-I
20 L	42.6 x 63.5 cm (16.8 x 25 in.)	**ASI 26/77 film** SS00114-I

3 ports

Line 1
Plug 6.4 mm (1/4 in.) and pinch clamp
Tubing: C-Flex 374, length: 30 cm (12 in.)
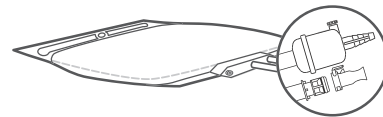ID x OD: 6.4 x 9.7 mm (0.25 x 0.38 in.)

Line 2
Plug 6.4 mm (1/4 in.) and pinch clamp
Tubing: C-Flex 374, length: 30 cm (12 in.)
ID x OD: 6.4 x 9.7 mm (0.25 x 0.38 in.)

Line 3
Injection port

Size	Dimensions (L x W)	Cat. No.
5 L	32 x 31.6 cm (12.6 x 12.4 in.)	**ASI 26/77 film** SS00118-I
10 L	32 x 56.5 cm (12.6 x 22.3 in.)	**ASI 26/77 film** SS00119-I
20 L	42.6 x 63.5 cm (16.8 x 25 in.)	**ASI 26/77 film** SS00120-I

3 ports

Line 1
0.2 µm PES membrane capsule filter
and pinch clamp
Tubing: C-Flex 374, length: 30 cm (12 in.)
ID x OD: 9.7 x 16 mm (0.38 x 0.63 in.)

Line 2
MPC insert with cap and pinch clamp
Tubing: C-Flex 374, length: 91.4 cm (36 in.)
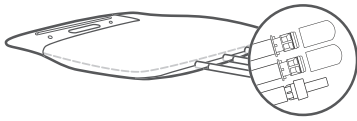ID x OD: 9.7 x 16 mm (0.38 x 0.63 in.)

Line 3
Injection port

Size	Dimensions (L x W)	Cat. No.
1 L	24.9 x 19.8 cm (9.8 x 7.8 in.)	**ASI 26/77 film** SS00158-I
5 L	32 x 31.6 cm (12.6 x 12.4 in.)	**ASI 26/77 film** SS00159-I
10 L	32 x 56.5 cm (12.6 x 22.3 in.)	**ASI 26/77 film** SS00160-I
20 L	42.6 x 63.5 cm (16.8 x 25 in.)	**ASI 26/77 film** SS00161-I

Large 2D Labtainer BPCs

3 ports

Line 1
MPC insert with 9.7 mm (0.38 in.) barb, cap, and pinch clamp
Tubing: EVA
ID x OD: 9.7 x 12.1 mm (0.38 x 0.48 in.)

Line 2
MPC insert with 9.5 mm (3/8 in.) barb, cap, and pinch clamp
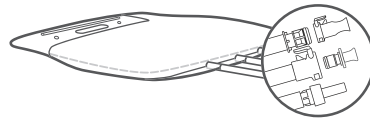Tubing: EVA
ID x OD: 9.7 x 12.1 mm (0.38 x 0.48 in.)

Line 3
Tubing: EVA, injection port
ID x OD: 6.1 x 8.1 mm (0.24 x 0.32 in.)

Size	Dimensions (L x W)	Cat. No.
5 L	32 x 31.6 cm (12.6 x 12.4 in.)	**ASI 28 film** SS00071-I
10 L	32 x 56.5 cm (12.6 x 22.3 in.)	**ASI 28 film** SS00072-I
20 L	42.6 x 63.5 cm (16.8 x 25 in.)	**ASI 28 film** SS00073-I
50 L	69.3 x 58.4 cm (27.3 x 23 in.)	**ASI 28 film** SS00074-I

3 ports

Line 1
MPC insert with 9.7 mm (0.38 in.) barb, cap, and pinch clamp
Tubing: EVA
ID x OD: 9.7 x 12.1 mm (0.38 x 0.48 in.)

Line 2
MPC body with 9.7 mm (0.38 in.) barb, plug, and pinch clamp
Tubing: EVA
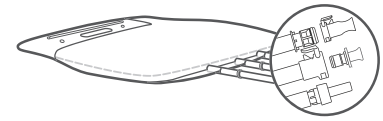ID x OD: 9.7 x 12.1 mm (0.38 x 0.48 in.)

Line 3
Tubing: EVA, injection port
ID x OD: 6.1 x 8.1 mm (0.24 x 0.32 in.)

Size	Dimensions (L x W)	Cat. No.
5 L	31.5 x 32 cm (12.4 x 12.6 in.)	**ASI 28 film** SS00016-I
10 L	56.6 x 32.5 cm (22.3 x 12.8 in.)	**ASI 28 film** SS00017-I
20 L	63.3 x 42.7 cm (24.9 x 16.8 in.)	**ASI 28 film** SS00018-I
50 L	69.3 x 58.4 cm (27.3 x 23 in.)	**ASI 28 film** SS00019-I

3 ports

Line 1
MPC insert with 9.7 mm (0.38 in.) barb, cap, pinch clamp, and 9.7 mm (0.38 in.) connector
Tubing: EVA + C-Flex 374, length: 30 cm (12 in.)
ID x OD: 9.7 x 16 mm (0.38 x 0.63 in.)

Line 2
MPC body with 9.7 mm (0.38 in.) barb, cap, pinch clamp, and 9.7 mm (0.38 in.) connector
Tubing: EVA, length: 30 cm (12 in.)
ID x OD: 9.7 x 16 mm (0.38 x 0.63 in.)

Line 3
Tubing: EVA, injection port

Size	Dimensions (L x W)	Cat. No.
5 L	31.5 x 32 cm (12.4 x 12.6 in.)	**ASI 28 film** SS00020-I
10 L	56.6 x 32.5 cm (22.3 x 12.8 in.)	**ASI 28 film** SS00021-I
20 L	63.3 x 42.7 cm (24.9 x 16.8 in.)	**ASI 28 film** SS00022-I
50 L	69.3 x 58.4 cm (27.3 x 23 in.)	**ASI 28 film** SS00023-I

thermo scientific

Ordering information

Description	Cat. No.
versaCART	
versaCART standard cart only	VC-1000
versaCART standard cart with load cells	VC-1001
versaCART standard cart with load cells and 3 pivoting shelves	VC-1002
versaCART standard cart with filter racks (no load cells)	VC-1003
versaCART standard cart with 3 pivoting shelves (no load cells)	VC-1004
200 L storage drum	TK-0200-05
Outer support containers	
32.2 L Rubbermaid tray	SV50163.01
Rubbermaid lid	SV50163.02
50 L flat-bottom LLDPE drum with lid	SV50076.02

Find out more at **thermofisher.com/bpc**

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