ReadyToProcess™ bags and tubing assemblies

READYTOPROCESS™

ReadyCircuit™ assemblies (Fig 1) are part of Cytiva's ReadyToProcess™ product platform. Using this platform, you can accelerate product development and reduce costs of large capital investments in manufacturing systems — whether you work at a biopharmaceutical company, contract manufacturing organization (CMO), or biotech startup. With flexible, single-use ReadyCircuit™ assemblies, you can configure and assemble a wide range of fluid-processing circuits.

ReadyCircuit™ assemblies allow you to:

- Decrease production change-over time
- Reduce the need for cleaning and cleaning validation and the associated costs
- Develop products without large capital investments in manufacturing systems

Applications

Use ReadyCircuit™ assemblies for:

- Aseptic clarification and purification of vaccines, monoclonal antibodies, recombinant proteins, and plasmids
- Aseptic cell processing
- Operations in environments where terminal sterilization is not feasible
- Preclinical to good manufacturing practices (GMP) commercial production
- Processing in areas where the risk of cross-contamination is high
- Fast Track drug development processes

Product configurations

ReadyToProcess™ bags come in multiple sizes and configurations, so you can scale up easily and maintain continuity from development to manufacturing.

Fig 1. Typical assembly with ReadyToProcess™ filters, ReadyMate™ Disposable Aseptic Connectors (DAC), and tubing assemblies.

Bag types:

- Small-volume vertical hanging bags and 2D pillow bags —from 250 mL to 50 L — for vertical or horizontal use on mobile ReadyKarts (Fig 2)
- Horizontal pillow bag (50 L)
- 3D bags (100, 200 L) for use on mobile ReadyKarts
- 3D bags (50, 100, 200, 500, and 1000 L) for large-scale production

ReadyCircuit™ bags have inlet and outlet ports and are supplied sterile with ReadyMate™ DAC. Port configuration varies with the bag type. You can transport 3D storage bags in ReadyKart bins (Fig 2).

Fig 2. Five sizes of ReadyCircuit™ 2-D bags: 1, 5, 10, 20, and 50 L.

Bag assembly films

ReadyCircuit™ bag assemblies with ReadyKleer Film

ReadyKleer film is a single-ply, five-layer film with exceptional clarity, low oxygen permeability, and high tensile strength. ReadyCircuit™ bag assemblies manufactured with this robust film are 2D ReadyCircuit™ hanging and pillow bag assemblies, as well as 3-D bag assemblies used with ReadyKart.

ReadyKleer film is 13 mils (235 µm) thick. As illustrated in Figure 3, it is composed of five layers: an outer layer of polyethylene (PE); a gas barrier layer of ethylene vinyl alcohol (EVOH); an ultra-low density polyethylene (ULDPE) fluid contact layer; and tie layers in between to bond the three major layers together. The inert PE offers good biocompatibility, chemical resistance, and very low levels of extractables. Tie layer information is proprietary. Find more data in the ReadyCircuit™ validation guide, 28960650.

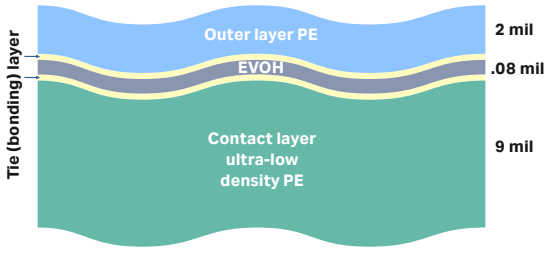


Fig 3. ReadyKleer film, a single-ply, five-layer film with exceptional clarity, low oxygen permeability, and high tensile strength.

ReadyCircuit™ bag assemblies with PL-01026/ PL-01077 film system

XDX storage bag assemblies for XL bins are manufactured using the composite film system PL-01026/PL-01077, which is designed to provide strength, flexibility, excellent gas barrier properties, and inert fluid contact. This film system has an inner fluid contact film made of 5.0 mil ULDPE (PL-01026) and outer layer film comprised of a 5-layer 7.0 mil coextruded film consisting of linear low-density polyethylene (LLDPE), EVOH, nylon (polyamide) for durability, and tie layers that boost adhesion of the dissimilar materials (PL-01077).

Tubing assemblies

Basic tubing assemblies consist of lengths of tubing with ReadyMate™ DAC at each end. Other ReadyCircuit™ tubing assemblies include tubing or aseptic connectors integrated with components such as tees, pressure sensors, reducers, and more.

You can easily customize ReadyCircuit™ tubing assemblies to meet your specific processing needs and can select from several different material compositions (Fig 4). Or you can order preconfigured kits consisting of tubing assemblies, bags, and sensors that will help you meet many standard fluid processing objectives.

Some circuits and assemblies include TC and Steam-Thru™ adapters commonly used to connect disposable fluid paths to stainless steel process equipment.

Fig 4. TPE elastomer, Pumpsil™, and reinforced silicone.

Sensor assemblies

ReadyCircuit™ sensor assemblies are tubing assemblies integrated with sensors for temperature, pressure, and conductivity. The sensor assemblies use ReadyMate™ DAC (Fig 5). Sensors are compatible with SciLog BioProcessing Systems SciTemp™, SciPres™, and SciCon™ monitors (part numbers 080-790, 080-690, and 080-590, respectively).

Fig 5. The sensor assembly connects to tubing via ReadyMate™ DAC.

Filter assemblies

ReadyToProcess™ assemblies include cross flow filtration (CFF) and normal flow filtration (NFF) filter capsules, sterilized and configured with tubing and ReadyMate™ DAC.

Fig 6. (A) ReadyToProcess™ brand ULTA™ normal flow filter capsule assembly and (B) ReadyToProcess™ brand hollow fiber cross flow filter cartridge assembly.

Ease of use

With ReadyToProcess™ assemblies you can choose from a variety of end connectors. These options include ReadyMate™ DAC, which allow you to make aseptic system connections in a matter of seconds. The genderless design makes them easy to connect, simplifies your connector inventory, and lets you assemble single-use flow paths in flexible ways to meet your needs.

With ReadyMate™ DAC you can:

- Reduce inventory with genderless ReadyMate™ end connectors
- Make aseptic connections in under a minute without special tools or training
- Make aseptic connections in non-hooded environments easily, since these single-use connectors are self-contained
- Have confidence that they are robust. - Fit these gamma-stable connectors with sanitary clamps for permanent, high-pressure applications

You can also choose from a variety of common industry aseptic connectors. We can customize designs so you can tailor product configurations to meet your needs.

Specifications

Specifications for ReadyCircuit™ assemblies are listed in Table 1.

Table 1. Specification for ReadyCircuit™ bag and tubing assemblies

General specification for ReadyCircuit™ assemblies

Processing temperature (liquid temperature)	2°C to 45°C
Operating temperature (ambient temperature)	2°C to 45°C
Cycles	Maximum number of cycles = 3
Maximum operational cycle time	8 h, continuous at maximum pump rpm
Endotoxin	For process fluid contact surfaces, endotoxin level is < 0.25 EU/mL using a water extraction method
Sterility	For standard and custom circuits, each subassembly and component is sterile for all fluid contact surfaces (per AAMI TIR 33:2005 and the principles of ISO/AAMI/ASTM 11137-1:2006)
Regulatory claims	USP Class VI for wetted parts, USP <88>. See also\STD 70503814 Hemolysis, ISO 10993-4 L929 MEM Elution Test ISO 10993-5 (Cytotoxicity) Animal-free Origin for wetted parts per EMEA/410/01 part 6.4 (alternatively—manufacturing under denaturizing conditions) Material certificates and full traceability (biopharmaceutical class) for all wetted parts 21 CFR Part 177†, Indirect Food Additives: Polymers
For CFF and subassemblies only: extractables—TOC	Each CFF subassembly flushed (pre-sterilization) to reduce the TOC level to below 0.5 ppm
Extractables—conductivity	Each CFF subassembly flushed (pre sterilization) to reduce the conductivity level to below 1 to 3 µs/cm

† One ingredient of C-Flex® product is not fully categorized to title 21 Code of Federal Regulations Part 170-199. All other parts apply.

Tubing

Maximum working pressures for the three types of tubing found in ReadyCircuit™ components.

TPE elastomer	1 bar (15 psi) at 20°C
Reinforced silicone	4 bar (60 psi) at 20°C
Pump tubing (Pumpsil™) 6.3 to 9.1 mm (1/4 to 3/8 in)	1.7 barg (25 psig) at 20°C
Pump tubing (Pumpsil™) 12.7 to 19 mm (1/2 to 3/4 in)	1 barg (15 psig) at 20°C

Filters

UF CFF filters

Maximum pressure from the pump discharge	4.1 barg (60 psig) at 20°C
Maximum permeate pressure	1 barg (15 psig) at 20°C

MF CFF filters

Maximum pressure from the pump discharge at 20°C	2.0 barg (30 psig) for 0.1 µm pore size 1.7 barg (25 psig) for 0.2 µm pore size 1.0 barg (15 psig) for 0.45 and 0.65 µm pore size
Maximum permeate pressure	1 barg (15 psig) at 20°C

NFF filters

Maximum feed pressure	1 barg (15 psig)

Bags

Storage of unfilled products

Temperature	-20°C to 45°C

Storage of 2-D bags filled with process fluids

Temperature	-80°C to 45°C
Shelf life at 1 to 45°C	30 d
Shelf life at -20 to 0°C	30 d
Shelf life at -80 to -21ºC	30 d

Storage of 3-D bags filled with process fluids

Temperature	2°C to 45°C
Shelf-life at 2 to 45°C	30 d

Sensors

SciTemp™ Flow-Thru temperature sensor specifications

Material, fluid contact	Medical-grade polysulfone meets USP <88> Class VI and FDA 21CFR177.1520. All wetted materials are made of animal-free compounds. Compatible with most sanitizing agents such as NaOH, hypochlorite. Sensors can be repeatedly autoClave™d.
Sensor type	Thermistor, epoxy-coated, 2252 Ω
Temperature range	- 10°C to 125°C
Temperature accuracy	± 0.10°C in the 4.0°C to 70.0°C range
Temperature display resolution	Two decimal places (0.01°C)
Sensor connectors	Lockable and waterproof
Sensor microchip	EPROM-stored sensor ID and calibration factor

SciPres™ Flow-Thru pressure sensor specifications

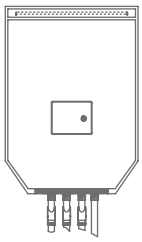
Material, fluid contact	Medical-grade polysulfone meets USP <88> Class VI and FDA 21CFR177.1520. All wetted materials are made of animal-free compounds. Compatible with most sanitizing agents such as NaOH, hypochlorite, for flow cell sanitization. Can be sterilized. Autoclavable and gamma stable.
Sensor type	Medical-grade, silicone piezoresistive sensing element with on-chip temperature compensation
Sensor isolation	Insoluble silicone dielectric gel isolates sensing element from process solution. The gel is a non-toxic, non-allergenic elastomer system that meets all USP Biological Safety, Class VI plastics requirements
Pressure range	0.34 to 4.1 barg (-5 to 60 psig)
Pressure accuracy	± 0.02 barg (± 0.30 psig)
Pressure resolution	0.0007 barg (0.01 psig)
Temperature range	0°C to 60°C
Sensor microchip	EPROM-stored sensor ID and calibration factor
Sensor connector and cables	Lockable and waterproof

SciCon™ Flow-Thru conductivity sensor specifications

Material, fluid contact	Natural polypropylene (PP) or polysulfone (PS) w/gold electrodes; medical grade meets USP <88> Class VI and FDA 21 CFR 177.1520. All wetted materials are made of animal-free compounds. Compatible with most sanitizing agents such as NaOH, hypochlorite, for flow cell sanitization. Can be sterilized: autoclavable and gamma stable.
Sensor type	4-electrode conductivity cell, factory calibrated, ready to use
Conductivity range	1 S/cm to 200 mS/cm
Resolution	0.1 S/cm
Accuracy High range Low range	 ± 0.25 mS in the 10 to 200 mS range ± 3 µS in the 0 to 100 µS range
Temperature range	4°C to 50°C
Temperature probe	Thermistor, factory calibrated
Temperature accuracy	± 0.5°C
Sensor microchip	EPROM-stores device ID, cell constant, temp offset and factory calibration data
Precalibration	47 µS at 25.0°C using standard traceable to NIST
Sensor connector and cables	Lockable and waterproof

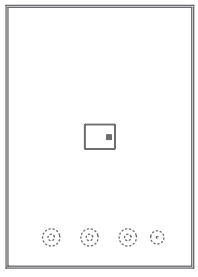
Ordering information

2-D hanging bags



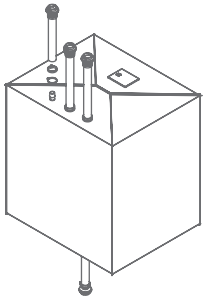
Description	Expanded description	Product code
1 L 3x0.25 in port 1 ft CF 1PK	1 L hanging/pillow bag with a needleless Clave™ sample port and 3 ports having 1 ft (305 mm) of C-Flex® 374 0.25 in (6 mm) i.d. 0.5 in (13 mm) o.d. tubing terminating with ReadyMate™ DAC.	12410218
1 L 4x0.25 in port 1 ft CF 1PK	1 L hanging/pillow bag with a needleless Clave™ sample port and 4 ports having 1 ft (305 mm) of C-Flex® 374 0.25 in (6 mm) i.d. 0.5 in (13 mm) o.d. tubing terminating with ReadyMate™ DAC.	12410219
5L 3x0.375 in port 1 ft CF 1PK	5 L hanging/pillow bag with a needleless Clave™ sample port and 3 ports having 1 ft (305 mm) of C-Flex® 374 0.375 in (10 mm) i.d. 0.625 in (16 mm) o.d. tubing terminating with ReadyMate™ DAC.	12410220
5L 4x0.375 in port 1 ft CF 1PK	5 L hanging/pillow bag with a needleless Clave™ sample port and 4 ports having 1 ft (305 mm) of C-Flex® 374 0.375 in (10 mm) i.d. 0.625 in (16 mm) o.d. tubing terminating with ReadyMate™ DAC.	12410221
10L 3x0.5 in port 1 ft CF 1PK	10 L hanging/pillow bag with a needleless Clave™ sample port and 3 ports having 1 ft (305 mm) of C-Flex® 374 0.5 in (13 mm) i.d. 0.75 in (19 mm) o.d. tubing terminating with ReadyMate™ DAC.	12410222
10L 4x0.5 in port 1 ft CF 1PK	10 L hanging/pillow bag with a needleless Clave™ sample port and 4 ports having 1 ft (305 mm) of C-Flex® 374 0.5 in (13 mm) i.d. 0.75 in (19 mm) o.d. tubing terminating with ReadyMate™ DAC.	12410223
20L 3x0.5 in port 1 ft CF 1PK	20 L hanging/pillow bag with a needleless Clave™ sample port and 3 ports having 1 ft (305 mm) of C-Flex® 374 0.5 in (13 mm) i.d. 0.75 in (19 mm) o.d. tubing terminating with ReadyMate™ DAC.	12410224
20L 4x0.5 in port 1 ft CF 1PK	20 L hanging/pillow bag with a needleless Clave™ sample port and 4 ports having 1 ft (305 mm) of C-Flex® 374 0.5 in (13 mm) i.d. 0.75 in (19 mm) o.d. tubing terminating with ReadyMate™ DAC.	12410225
250 mL 2.25 in port 1 ft CF1PK	250 mL sample bag with a needleless Clave™ sample port and 2 ports having 1 ft (305 mm) of C-Flex® 374 0.25 in (6 mm) i.d. 0.5 in (13 mm) o.d. tubing terminating with ReadyMate™ DAC.	12410226
500 mL 2.25 in port 1 ft CF1PK	500 mL sample bag with a needleless Clave™ sample port and 2 ports having 1 ft (305 mm) of C-Flex® 374 0.25 in (6 mm) i.d. 0.5 in (13 mm) o.d. tubing terminating with ReadyMate™ DAC.	12410227

2-D pillow bags



50L 3x0.75 in port 1 ft CF 1PK	50 L pillow bag with a needleless Clave™ sample port and 3 ports having 1 ft (305 mm) of C-Flex® 374 0.75 in (19 mm) i.d. 1.125 in (29 mm) o.d. tubing terminating with ReadyMate™ DAC.	12410228
50L 4x0.75 in port 1 ft CF 1PK	50 L pillow bag with a needleless Clave™ sample port and 4 ports having 1 ft (305 mm) of C-Flex® 374 0.75 in (19 mm) i.d. 1.125 in (29 mm) o.d. tubing terminating with ReadyMate™ DAC.	12410229

3-D bag assemblies (for use with ReadyKart)



100L 4x0.75 in port 18 in CF 1PK	100 L 3D-bag with 4 ports having 18 in (457 mm) of C-Flex® 374 0.75 in (19 mm) i.d. 1.125 in (29 mm) o.d. tubing terminating with ReadyMate™ DAC.	12410206
100L 5x0.75 in port 18 in CF 1PK	100 L 3D-bag with 5 ports having 18 in (457 mm) of C-Flex® 374 0.75 in (19 mm) i.d. 1.125 in (29 mm) o.d. tubing terminating with ReadyMate™ DAC.	12410207
200L 4x0.75 in port 18 in CF 1PK	200 L 3D-bag with 4 ports having 18 in (457 mm) of C-Flex® 374 0.75 in (19 mm) i.d. 1.125 in (29 mm) o.d. tubing terminating with ReadyMate™ DAC.	12410208
200L 5x0.75 in port 18 in CF 1PK	200 L 3D-bag with 5 ports having 18 in (457 mm) of C-Flex® 374 0.75 in (19 mm) i.d. 1.125 in (29 mm) o.d. tubing terminating with ReadyMate™ DAC.	12410209

3-D XDX Storage Bag Assemblies

2-port bag

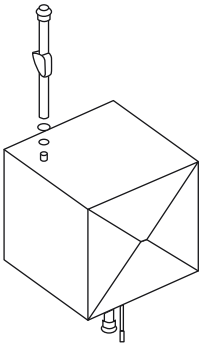
Size	Description	Product code
100 L	XDX-100 Storage Bag	888-0447-F
200 L	XDX-200 Storage Bag	888-0448-F
500 L	XDX-500 Storage Bag	888-0449-F
1000 L	XDX-1000 Storage Bag	888-0450-F

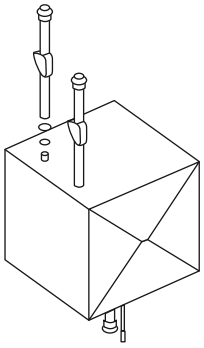
3-port bag

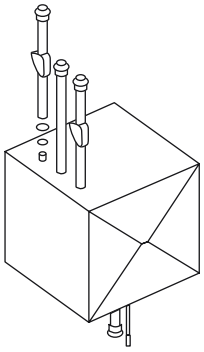
Size	Description	Product code
100 L	XDX-100 Storage Bag, 3 Port	888-1258
200 L	XDX-200 Storage Bag, 3 Port	888-1259
500 L	XDX-500 Storage Bag, 3 Port	888-1260
1000 L	XDX-1000 Storage Bag, 3 Port	888-1261

4-port bag

Size	Description	Product code
100 L	XDX-100 Storage Bag, 4 Port	888-1262
200 L	XDX-200 Storage Bag, 4 Port	888-1265
500 L	XDX-500 Storage Bag, 4 Port	888-1264
1000 L	XDX-1000 Storage Bag, 4 Port	888-1263



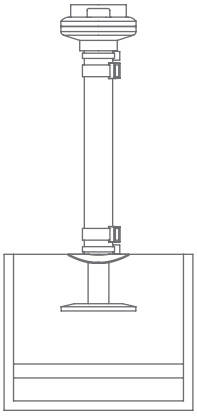




3-D Storage Bag Assemblies (with Fortem™ Film)

Bags	Product codes				
	50 L	100 L	200 L	500 L	1000 L
RTP XL Bin 3D Fortem™ Bag 2 Port with ReadyMate™	29344947	29345483	29345484	29345485	29345686
RTP XL Bin 3D Fortem™ Bag 2 Port with AseptiQuik™	29374836	29374837	29374838	29374839	29374840
RTP XL Bin 3D Fortem™ Bag 3 Port with ReadyMate™	29348287	29348288	29348289	29348290	29348291
RTP XL Bin 3D Fortem™ Bag 3 Port with AseptiQuik™	29374841	29374842	29374843	29374844	29374845
RTP ReadyKart 3D Fortem™ Bag 4 Port with ReadyMate™		29375936	29375937		
RTP ReadyKart 3D Fortem™ Bag 5 Port with ReadyMate™		29375938	29375939		

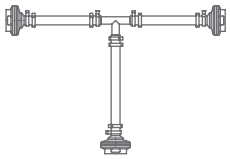
Jumper, tube set assemblies



RMRM Jumper 0.25 in 1 ft CF1PK	Jumper tube set with 1 ft (305 mm) of TPE elastomer 0.25 in (6 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410114
RMRM Jumper 0.25 in 3 ft CF1PK	Jumper tube set with 3 ft (914 mm) of TPE elastomer 0.25 in (6 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410115
RMRM Jumper 0.25 in 5 ft CF1PK	Jumper tube set with 5 ft (1524 mm) of TPE elastomer 0.25 in (6 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410116
RMRM Jumper 0.375 in 1 ft CF1PK	Jumper tube set with 1 ft (305 mm) of TPE elastomer 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410117
RMRM Jumper 0.375 in 3 ft CF1PK	Jumper tube set with 3 ft (914 mm) of TPE elastomer 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410118
RMRM Jumper 0.375 in 5 ft CF1PK	Jumper tube set with 5 ft (1524 mm) of TPE elastomer 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410119
RMRM Jumper 0.5 in 1 ft CF1PK	Jumper tube set with 1 ft (305 mm) of TPE elastomer 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410120
RMRM Jumper 0.5 in 3 ft CF1PK	Jumper tube set with 3 ft (914 mm) of TPE elastomer 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410121
RMRM Jumper 0.5 in 5 ft CF1PK	Jumper tube set with 5 ft (1524 mm) of TPE elastomer 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410122
RMRM Jumper 0.75 in 1 ft CF1PK	Jumper tube set with 1 ft (305 mm) of TPE elastomer 0.75 in (19 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410123
RMRM Jumper 0.75 in 3 ft CF1PK	Jumper tube set with 3 ft (914 mm) of TPE elastomer 0.75 in (19 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410127
RMRM Jumper 0.75 in 5 ft CF1PK	Jumper tube set with 5 ft (1524 mm) of TPE elastomer 0.75 in (19 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410128
RMRM Jumper 0.25 in 1 ft RS1PK	Jumper tube set with 1 ft (305 mm) of reinforced silicone 0.25 in (6 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410129
RMRM Jumper 0.25 in 3 ft RS1PK	Jumper tube set with 3 ft (914 mm) of reinforced silicone 0.25 in (6 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410130
RMRM Jumper 0.25 in 5 ft RS1PK	Jumper tube set with 5 ft (1524 mm) of reinforced silicone 0.25 in (6 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410131
RMRM Jumper 0.375 in 1 ft RS1PK	Jumper tube set with 1 ft (305 mm) of reinforced silicone 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410132
RMRM Jumper 0.375 in 3 ft RS1PK	Jumper tube set with 3 ft (914 mm) of reinforced silicone 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410133
RMRM Jumper 0.375 in 5 ft RS1PK	Jumper tube set with 5 ft (1524 mm) of reinforced silicone 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410134
RMRM Jumper 0.5 in 1 ft RS1PK	Jumper tube set with 1 ft (305 mm) of reinforced silicone 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410135
RMRM Jumper 0.5 in 3 ft RS1PK	Jumper tube set with 3 ft (914 mm) of reinforced silicone 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410136
RMRM Jumper 0.5 in 5 ft RS1PK	Jumper tube set with 5 ft (1524 mm) of reinforced silicone 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410137
RMRM Jumper 0.75 in 1 ft RS1PK	Jumper tube set with 1 ft (305 mm) of reinforced silicone 0.75 in (19 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410138
RMRM Jumper 0.75 in 3 ft RS1PK	Jumper tube set with 3 ft (914 mm) of reinforced silicone 0.75 in (19 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410142
RMRM Jumper 0.75 in 5 ft RS1PK	Jumper tube set with 5 ft (1524 mm) of reinforced silicone 0.75 in (19 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410143

RMTC Jumper 0.25 in 1 ft CF1PK	Jumper tube set with 1 ft (305 mm) of TPE elastomer 0.25 in (6 mm) i.d. tubing terminating with ReadyMate™ to SterilEnz™® TC connectors.	12410144
RMTC Jumper 0.375 in 1 ft CF1PK	Jumper tube set with 1 ft (305 mm) of TPE elastomer 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ to SterilEnz™ TC connectors.	12410145
RMTC Jumper 0.5 in 1 ft CF1PK	Jumper tube set with 1 ft (305 mm) of TPE elastomer 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ to SterilEnz™ TC connectors.	12410147
RMTC Jumper 0.75 in 1 ft CF1PK	Jumper tube set with 1 ft (305 mm) of TPE elastomer 0.75 in (19 mm) i.d. tubing terminating with ReadyMate™ to SterilEnz™ TC connectors.	12410148
RMTC Jumper 0.25 in 1 ft RS1PK	Jumper tube set with 1 ft (305 mm) of reinforced silicone 0.25 in (6 mm) i.d. tubing terminating with ReadyMate™ to SterilEnz™ TC connectors.	12410149
RMTC Jumper 0.375 in 1 ft RS1PK	Jumper tube set with 1 ft (305 mm) of reinforced silicone 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ to SterilEnz™ TC connectors.	12410150
RMTC Jumper 0.5 in 1 ft RS1PK	Jumper tube set with 1 ft (305 mm) of reinforced silicone 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ to SterilEnz™ TC connectors.	12410151
RMTC Jumper 0.75 in 1 ft RS1PK	Jumper tube set with 1 ft (305 mm) of reinforced silicone 0.75 in (19 mm) i.d. tubing terminating with ReadyMate™ to SterilEnz™ TC connectors.	12410152
RMSTCM Jump 0.375 in 1 ft CF1PK	Jumper tube set with 1 ft (305 mm) of TPE elastomer 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ to Steam-Thru™ TC connector connectors.	12410197
RMSTCM Jump 0.5 in 1 ft CF1PK	Jumper tube set with 1 ft (305 mm) of TPE elastomer 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ to Steam-Thru™ TC connector connectors.	12410198
RMSTC1 Jump 0.375 in 1 ft CF1PK	Jumper tube set with 1 ft (305 mm) of TPE elastomer 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ to Steam-Thru™ TC connector connectors.	12410199
RMSTC1 Jump 0.5 in 1 ft CF1PK	Jumper tube set with 1 ft (305 mm) of TPE elastomer 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ to Steam-Thru™ TC connector connectors.	12410200
RMSTCM Jump 0.375 in 1 ft RS1PK	Jumper tube set with 1 ft (305 mm) of reinforced silicone 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ to Steam-Thru™ TC connector connectors.	12410201
RMSTCM Jump 0.5 in 1 ft RS1PK	Jumper tube set with 1 ft (305 mm) of reinforced silicone 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ to Steam-Thru™ TC connector connectors.	12410202
RMSTC1 Jump 0.375 in 1 ft RS1PK	Jumper tube set with 1 ft (305 mm) of reinforced silicone 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ to Steam-Thru™ TC connector connectors.	12410203
RMSTC1 Jump 0.5 in 1 ft RS1PK	Jumper tube set with 1 ft (305 mm) of reinforced silicone 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ to Steam-Thru™ TC connector connectors.	12410204

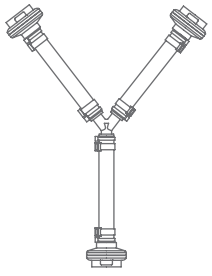
Jumper, T manifold tube assemblies



3RMT Jumper 0.25 in 6 in CF1PK	Jumper T manifold with three ports of 6 in (152 mm) of TPE elastomer 0.25 in (6 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410163
3RMT Jumper 0.375 in 6 in CF1PK	Jumper T manifold with three ports of 6 in (152 mm) of TPE elastomer 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410164
3RMT Jumper 0.5 in 6 in CF1PK	Jumper T manifold with three ports of 6 in (152 mm) of TPE elastomer 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410166
3RMT Jumper 0.75 in 6 in CF1PK	Jumper T manifold with three ports of 6 in (152 mm) of TPE elastomer 0.75 in (19 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410167
3RMT Jumper 0.25 in 6 in RS1PK	Jumper T manifold with three ports of 6 in (152 mm) of reinforced silicone 0.25 in (6 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410168
3RMT Jumper 0.375 in 6 in RS1PK	Jumper T manifold with three ports of 6 in (152 mm) of reinforced silicone 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410169
3RMT Jumper 0.5 in 6 in RS1PK	Jumper T manifold with three ports of 6 in (152 mm) of reinforced silicone 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410171
3RMT Jumper 0.75 in 6 in RS1PK	Jumper T manifold with three ports of 6 in (152 mm) of reinforced silicone 0.75 in (19 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410172

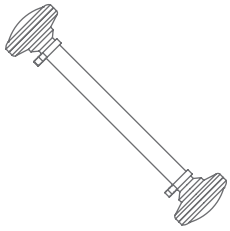
4RMT Jumper 0.25 in 6 in CF1PK	Jumper T manifold with four ports of 6 in (152 mm) of TPE elastomer 0.25 in (6 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410173
4RMT Jumper 0.375 in 6 in CF1PK	Jumper T manifold with four ports of 6 in (152 mm) of TPE elastomer 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410174
4RMT Jumper 0.5 in 6 in CF1PK	Jumper T manifold with four ports of 6 in (152 mm) of TPE elastomer 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410175
4RMT Jumper 0.75 in 6 in CF1PK	Jumper T manifold with four ports of 6 in (152 mm) of TPE elastomer 0.75 in (19 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410176
4RMT Jumper 0.25 in 6 in RS1PK	Jumper T manifold with four ports of 6 in (152 mm) of reinforced silicone 0.25 in (6 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410177
4RMT Jumper 0.375 in 6 in RS1PK	Jumper T manifold with four ports of 6 in (152 mm) of reinforced silicone 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410178
4RMT Jumper 0.5 in 6 in RS1PK	Jumper T manifold with four ports of 6 in (152 mm) of reinforced silicone 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410179
4RMT Jumper 0.75 in 6 in RS1PK	Jumper T manifold with four ports of 6 in (152 mm) of reinforced silicone 0.75 in (19 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410180
6RMT Jumper 0.25 in 6 in CF1PK	Jumper T manifold with six ports of 6 in (152 mm) of TPE elastomer 0.25 in (6 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410181
6RMT Jumper 0.375 in 6 in CF1PK	Jumper T manifold with six ports of 6 in (152 mm) of TPE elastomer 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410182
6RMT Jumper 0.5 in 6 in CF1PK	Jumper T manifold with six ports of 6 in (152 mm) of TPE elastomer 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410183
6RMT Jumper 0.75 in 6 in CF1PK	Jumper T manifold with six ports of 6 in (152 mm) of TPE elastomer 0.75 in (19 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410184
6RMT Jumper 0.25 in 6 in RS1PK	Jumper T manifold with six ports of 6 in (152 mm) of reinforced silicone 0.25 in (6 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410185
6RMT Jumper 0.375 in 6 in RS1PK	Jumper T manifold with six ports of 6 in (152 mm) of reinforced silicone 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410186
6RMT Jumper 0.5 in 6 in RS1PK	Jumper T manifold with six ports of 6 in (152 mm) of reinforced silicone 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410187
6RMT Jumper 0.75 in 6 in RS1PK	Jumper T manifold with six ports of 6 in (152 mm) of reinforced silicone 0.75 in (19 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410188

Jumper, Y manifold tube assemblies



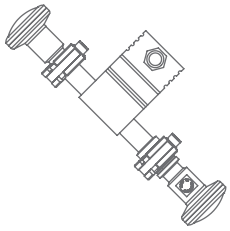
3RMY Jumper 0.25 in 6 in CF1PK	Jumper Y manifold with three ports of 6 in (152 mm) of TPE elastomer 0.25 in (6 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410189
3RMY Jumper 0.375 in 6 in CF1PK	Jumper Y manifold with three ports of 6 in (152 mm) of TPE elastomer 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410190
3RMY Jumper 0.5 in 6 in CF1PK	Jumper Y manifold with three ports of 6 in (152 mm) of TPE elastomer 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410191
3RMY Jumper 0.75 in 6 in CF1PK	Jumper Y manifold with three ports of 6 in (152 mm) of TPE elastomer 0.75 in (19 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410192
3RMY Jumper 0.25 in 6 in RS1PK	Jumper Y manifold with three ports of 6 in (152 mm) of reinforced silicone 0.25 in (6 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410193
3RMY Jumper 0.375 in 6 in RS1PK	Jumper Y manifold with three ports of 6 in (152 mm) of reinforced silicone 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410194
3RMY Jumper 0.5 in 6 in RS1PK	Jumper Y manifold with three ports of 6 in (152 mm) of reinforced silicone 0.5 in (13 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410195
3RMY Jumper 0.75 in 6 in RS1PK	Jumper Y manifold with three ports of 6 in (152 mm) of reinforced silicone 0.75 in (19 mm) i.d. tubing terminating with ReadyMate™ DAC.	12410196

Jumper, pump tube set assemblies



PSIL Jumper 0.25 in i.d. 0.437 in OD	Jumper tube set with 19 in (483 mm) of Pumpsil™ 0.25 in (6 mm) 0.437 i.d. tubing terminating with ReadyMate™ DAC. Tubing size: 24. Recommended Pump: Watson-Marlow™ series 520.	28979470
PSIL Jumper 0.375 in i.d. 0.563 in OD	Jumper tube set with 19 in (483 mm) of Pumpsil™ 0.375 in (10 mm) 0.563 i.d. tubing terminating with ReadyMate™ DAC. Tubing size: 122 Recommended Pump: Watson-Marlow series 520.	28979432
PSIL Jumper 0.375 in i.d. 0.625 in OD	Jumper tube set with 22 in (559 mm) of Pumpsil™ 0.375 in (10 mm) 0.625 i.d. tubing terminating with ReadyMate™ DAC. Tubing size: 73 Recommended Pump: Watson-Marlow series 620.	28979434
PSIL Jumper 0.5 in i.d. 0.75 in OD	Jumper tube set with 22 in (559 mm) of Pumpsil™ 0.5 in (13 mm) 0.75 i.d. tubing terminating with ReadyMate™ DAC. Tubing size: 82 Recommended Pump: Watson-Marlow series 620.	28979436
PSIL Jumper 0.5 in i.d. 0.875 in OD	Jumper tube set with 24 in (610 mm) of Pumpsil™ 0.5 in (13 mm) 0.875 i.d. tubing terminating with ReadyMate™ DAC. Tubing size: 88 Recommended Pump: Watson-Marlow series 720.	28979437
PSIL Jumper 0.75 in i.d. 1.125 in OD	Jumper tube set with 24 in (610 mm) of Pumpsil™ 0.75 in (19 mm) 1.125 i.d. tubing terminating with ReadyMate™ DAC. Tubing size: 191 Recommended Pump: Watson-Marlow series 720.	28979438

Sensor assemblies



Pres sens 0.375 in 6 in RSRM 1PK	Sensor assembly with a Scilog pressure sensor and 6 in (152 mm) of reinforced silicone 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ DAC.	28979471
Temp sens 0.375 in 6 in RSRM	Sensor assembly with a Scilog temperature sensor and 6 in (152 mm) of reinforced silicone 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ DAC.	28979439
Cond sens 0.375 in 6 in RSRM 1PK	Sensor assembly with a Scilog conductivity sensor and 6 in (152 mm) of reinforced silicone 0.375 in (10 mm) i.d. tubing terminating with ReadyMate™ DAC.	28979440
Pres sens 0.75 in TCRM 1PK	Sensor assembly with a Scilog pressure sensor terminating with ReadyMate™ DAC.	12410233
Temp sens 0.75 in TCRM 1PK	Sensor assembly with a Scilog temperature sensor terminating with ReadyMate™ DAC.	12410238
Cond sens 0.75 in TCRM 1PK	Sensor assembly with a Scilog conductivity sensor terminating with ReadyMate™ DAC.	12410243

Related literature

Data files	Product code
ReadyCircuit™ bags and tubing assemblies	CY16885
ReadyToProcess™ single-use products made in China	CY12448
ReadyKart mobile processing station	CY13665
ReadyToProcess™ brand ULTA™ normal flow filter capsules	CY14398
ReadyMate™ Disposable Aseptic Connectors	CY13447
Xcellerex™ XDM mixer single-use mixing systems	CY11756
Xcellerex™ XDUO mixer single-use mixing systems	CY11756
Xcellerex™ XDUO 2500 mixer single-use mixing systems	CY6812

Operating manuals	Product code
ReadyCircuit™ bags and tubing assemblies	28960646
ReadyKart mobile processing station	28960647
ReadyMate™ Disposable Aseptic Connectors	28938570
ReadyToProcess™ bins	29077794

Quick reference guide	Product code
Getting started with ReadyCircuit™ components	29293762

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