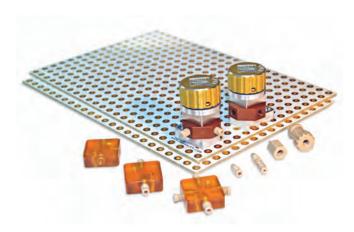
CapTite[™] Microfluidic Construction Kits



KEY FEATURES

- Ompact components for 360 μm, 1/16, and 1/32 inch ID tubing
- Fast, breadboard-based design
- Leak-free high pressure setups

Routing fluids can be one of the most time-consuming tasks of microfluidics research. LabSmith's CapTite microminiature components take the pain out of constructing setups. Based on components developed by Sandia National Laboratories, these compact components for 360 µm and 1/16 in tubing are designed for leak-free connectivity, even at high pressures.

CapTite components are extremely compact — a welcome relief from bulky, multi-piece fittings and components. Setups for tasks such as one-step separations can be built up in a fraction of the time and footprint of other fittings.

CapTite components let you create complex setups, including complete sample prep and analysis systems, that cannot be easily built using other methods. You can also add bonded-port connections to route fluids through and between chips securely: no more world-tochip headaches!

All CapTite components are designed for low dead volumes and easy cleaning, enabling long life over multiple runs. Complete construction kits are available, with everything you need to build up experiment after experiment, for great value with little waste, at a fraction of the price of other components.

Fully inter-compatible CapTite products enable easy, breadboard-based, microfluidic system construction. Most components are available for either 360 μ m (0.014 in) capillary or 1/16 in (1.59 mm) tubing.

Complete Microfluidic Construction Kits include breadboard, interconnects, tubing, syringe adapter, and more. Choose from 360 μm Single User, 360 μm Capillary Interface, 360 μm Chip Interface or 1/16 in Single User kits. These kits offer the best value for prototype and permanent construction of microfluidic setups.

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ORDER #	QTY	MODEL	PRODUCT
Single User Kit			
PC2 72-0426		C360-KIT1	Microfluidic Construction Single User Kit for 360 µm capillary tubin
KIT COMPONENTS:			
PC2 72-0431	75	C360-100	One-Piece Fitting
PC2 72-0433	10	C360-101	Plug
PC2 72-0438	5	C360-203	Tee Interconnect
PC2 72-0443	5	C360-204	Cross Interconnect
PC2 72-0449	10	C360-300	Luer-Lock Adapter
PC2 72-0448	25	C360-400	Bonded Port Connector
PC2 72-0445	2	C360-500	Selector Valve
PC2 72-0430	2	LS-600	Breadboard
Interface Kit			
PC2 72-0427		C360-KIT2	Microfluidic Construction Interface Kit for 360 µm capillary tubing
KIT COMPONENTS:			
PC2 72-0431	50	C360-100	One-Piece Fitting
PC2 72-0433	5	C360-101	Plug
PC2 72-0438	5	C360-203	Tee Interconnect
PC2 72-0443	5	C360-204	Cross Interconnect
PC2 72-0449	10	C360-300	Luer-Lock Adapter
PC2 72-0445	2	C360-500	Selector Valve
PC2 72-0430	2	LS-600	Breadboard
Chip Interface Kit f	or 360	μm Capillary	Tubing
PC2 72-0428		C360-KIT3	Microfluidic Construction Chip Interface Kit for 360 µm capillary tubing
KIT COMPONENTS:			
PC2 72-0431	60	C360-100	One-Piece Fitting
PC2 72-0433	5	C360-101	Plug
PC2 72-0449	5	C360-300	Luer-Lock Adapter
PC2 72-0448	50	C360-400	Bonded Port Connector
Single User Kit for	1/16 lı	nch Tubing	
PC2 72-0429		T116-KIT1	Microfluidic Construction Single User Kit for 1/16 in tubing
KIT COMPONENTS:			
PC2 72-0432	50	T116-100	One-Piece Fitting
PC2 72-0434	5	T116-101	Plug
PC2 72-0441	5	T116-203	Tee Interconnect
PC2 72-0444	5	T116-204	Cross Interconnect
PC2 72-0450	10	T116-300	Luer-Lock Adapter
	_	T110 F00	
PC2 72-0446	2	T116-500	Selector Valve

CapTite[™] Microfluidic Components

















Order #			Description		
360 µm Capillary	1/32" Tubing	1/16" Tubing			
One-Piece Fitting	One-Piece Fitting - Secure connections from tubing to other components. Material: PEEK™				
PC2 72-0451	PC2 72-0452	PC2 72-0453	Set of 5		
PC2 72-0454	PC2 72-0455	PC2 72-0456	Set of 25		
One-Piece Plug -	Use in place of one	e-piece fittings to p	lug ports. Material: PEEK™		
PC2 72-0457	PC2 72-0458	PC2 72-0459	Sets of 5		
Adapter - Two-pie	ce fittings to adapt	capillary or tubing	sizes. Material: PEEK™		
PC2 72-4691	PC2 72-4692	PC2 72-4693	Sets of 2		
PC2 72-4694	PC2 72-4695	PC2 72-4696	Sets of 2		
Interconnect - Bro	eadboard mountabl	e connector joins ι	p to four fluid lines with zero dead volume. Material: Ultem®		
PC2 72-4995	PC2 72-4996	PC2 72-4997	Union (2 Unions & 4 one-piece fittings)		
PC2 72-4998	PC2 72-4999	PC2 72-5000	Tee (2 Tees & 6 one-piece fittings)		
PC2 72-5001	PC2 72-5002	PC2 72-5003	Cross (2 Crosses & 8 one-piece fittings)		
PC2 72-5004	PC2 72-5005	PC2 72-5006	Elbow (2 Elbows & 4 one-piece fittings)		
Bonded-port conn	nectors - Attach to	chip to secure remo	ovable capillary. Material: Ultem®		
PC2 72-5007	-	_	Set of 10 (10 one-piece fittings & epoxy)		
PC2 72-5008	-	_	Set of 50 (connectors only)		
Luer-Lock [™] Adapt	ter - Includes 4 one	e-piece fittings. Ma	terial: PEEK™		
PC2 72-4697	PC2 72-4698	PC2 72-4699	Sets of 4		
Multi-Port Selecto	or Valve - 3-way, ma	anual with "L" flow	pattern. Includes 3 one-piece fittings		
PC2 72-5009	PC2 72-5010	PC2 72-5011			
-	-	PC2 72-5012			
Breadboard - 4 x 6	6 inches. Includes 2	2 breadboards, insta	allation tools, and hardware for mounting valves and interconnects		
PC2 72-5013	PC2 72-5013	PC2 72-5013			

Barbed Tubing Connectors

Tubing Connector Kits & Stopcocks

arvard Apparatus offers a complete line of tubing connector kits to assist you in quickly and easily making connections between syringes and tubing and between tubing of similar and dissimilar sizes. Kit types include: barbed connector kits (small, medium and large), Kent® Systems Quick Disconnect Kits, Luer connector kits, a stopcock kit, a tubing clamp kit, fitting and tubing kit and a tubing manifold kit. Some kits are available in multiple material types where chemical compatibility may be a concern. Each kit is supplied in a convenient storage box and kit component are also sold separately. Our line of connectors grows continually. Visit our website for the latest offerings.



Kent® Systems Quick Disconnect Kits



These kits feature the Kent® Systems quick disconnect (KSQD) fittings. Fittings are available as either male or female KSQD. Fitting styles include integral male or female, swivel male (with or without lock), locking male fitting, male to female KSQD shut-off valve, male plug, male/female plug, male flush plug, female cap, male flush plug and the modular manifold. The modular manifold has three female and one male KSQD fittings. Modular manifolds can be interconnected with any fitting including other modular manifolds to quickly and easily interconnect a number of tubes of similar or dissimilar sizes. The unique barbs are sized to accommodate a range of tube sizes and tube types. Each kit is supplied in a convenient box. All kit components are also sold separately.



Kent[®] Systems Quick Disconnect Kits Barb Size Chart

		Barb Bore		
Barb No.	Barb OD	Lower	Upper	Tube ID Range
004	0.102 in	0.06 in	0.063 in	0.078 in
007	0.129 in	0.076 in	0.078 in	0.109 in
013	0.164 in	0.096 in	0.094 in	0.141 in
025	0.208 in	0.122 in	0.125 in	0.188 in
035	0.264 in	0.155 in	0.156 in	0.234 in
055	0.335 in	0.197 in	0.188 in	0.297 in

Order #	Barb Size	Kit Size	Tube ID Range
PC2 72-1613	004, 007, 013	Small	1/16, 3/32 and 1/8 in
PC2 72-1614	025, 035, 055	Large	5/32, 3/16 and 1/4 in

Barbed Connector Kits







These barbed connector kits come in three different sizes. Small and medium kits have 10 pieces of each component and large kits have 5pieces of each component. Connectors join tubing of similar sizes while reducing adapters join tubing of different sizes. These kits are available in black nylon, polypropylene, and Kynar®, a chemically resistant autoclavable plastic. Each kit is supplied in a convenient box. All kit components are also sold separately.

Barbed Tubir	ng Connector Kits		
ORDER #	PRODUCT	TUBE ID	MATERIAL
PC2 72-1409	Small Black Nylon Barb	ed Connector Kit	
KIT COMPONENTS	i:		
PC2 72-1475	Barbed Connector	1/16 to 1/16 in	Black Nylon
PC2 72-1476	Barbed Connector	3/32 to 3/32 in	Black Nylon
PC2 72-1477	Barbed Connector	1/8 to 1/8 in	Black Nylon
PC2 72-1478	Barbed Connector	1/16 to 3/32 in	Black Nylon
PC2 72-1479	Barbed Connector	1/16 to 1/8 in	Black Nylon
PC2 72-1480	Barbed Connector	3/32 to 1/8 in	Black Nylon
PC2 72-1481	L Barbed Connector	1/16 to 1/16 in	Black Nylon
PC2 72-1482	L Barbed Connector	3/32 to 3/32 in	Black Nylon
PC2 72-1483	L Barbed Connector	1/8 to 1/8 in	Black Nylon
PC2 72-1486	L Barbed Connector	3/32 to 1/8 in	Black Nylon
PC2 72-1487	T Barbed Connector	1/16 to 1/16 in	Black Nylon
PC2 72-1488	T Barbed Connector	3/32 to 3/32 in	Black Nylon
PC2 72-1489	T Barbed Connector	1/8 to 1/8 in	Black Nylon
PC2 72-1491	T Barbed Connector	1/16 to 1/8 in	Black Nylon
PC2 72-1492	T Barbed Connector	3/32 to 1/8 in	Black Nylon
PC2 72-1493	Y Barbed Connector	1/16 to 1/16 in	Black Nylon
PC2 72-1494	Y Barbed Connector	3/32 to 3/32 in	Black Nylon
PC2 72-1495	Y Barbed Connector	1/8 to 1/8 in	Black Nylon
PC2 72-1498	Barbed PLUG Connector	1/8 in	Black Nylon

PC2 72-1410	Small Polypropylene Ba	rbed Connector Kit	
KIT COMPONENTS			
PC2 72-1499	Barbed Connector	1/16 to 1/16 in	Polypropylene
PC2 72-1500	Barbed Connector	3/32 to 3/32 in	Polypropylene
PC2 72-1501	Barbed Connector	1/8 to 1/8 in	Polypropylene
PC2 72-1502	Barbed Connector	1/16 to 3/32 in	Polypropylene
PC2 72-1503	Barbed Connector	1/16 to 1/8 in	Polypropylene
PC2 72-1504	Barbed Connector	3/32 to 1/8 in	Polypropylene
PC2 72-1505	L Barbed Connector	1/16 to 1/16 in	Polypropylene
PC2 72-1506	L Barbed Connector	3/32 to 3/32 in	Polypropylene
PC2 72-1507	L Barbed Connector	1/8 to 1/8 in	Polypropylene
PC2 72-1508	L Barbed Connector	1/16 to 3/32 in	Polypropylene
PC2 72-1509	L Barbed Connector	1/16 to 1/8 in	Polypropylene
PC2 72-1510	L Barbed Connector	3/32 to 1/8 in	Polypropylene
PC2 72-1511	T Barbed Connector	1/16 to 1/16 in	Polypropylene
PC2 72-1512	T Barbed Connector	3/32 to 3/32 in	Polypropylene
PC2 72-1513	T Barbed Connector	1/8 to 1/8 in	Polypropylene
PC2 72-1514	T Barbed Connector	1/16 to 3/32 in	Polypropylene
PC2 72-1515	T Barbed Connector	1/16 to 1/8 in	Polypropylene
PC2 72-1516	T Barbed Connector	3/32 to 1/8 in	Polypropylene
PC2 72-1517	Y Barbed Connector	1/16 to 1/16 in	Polypropylene
PC2 72-1518	Y Barbed Connector	3/32 to 3/32 in	Polypropylene
PC2 72-1519	Y Barbed Connector	1/8 to 1/8 in	Polypropylene
PC2 72-1520	Barbed PLUG Connector	1/16 in	Polypropylene
PC2 72-1521	Barbed PLUG Connector	3/32 in	Polypropylene
PC2 72-1522	Barbed PLUG Connector	1/8 in	Polypropylene

Barbed Tubing Connectors (continued)

Barbed Tubing Connector Kits (Continued)				
ORDER #	PRODUCT	TUBE ID	MATERIAL	
PC2 72-1411	Small Kynar® Barbed	Connector Kit		
KIT COMPONENTS	:			
PC2 72-1523	Barbed Connector	1/16 to 1/16 in	Kynar [®]	
PC2 72-1524	Barbed Connector	3/32 to 3/32 in	Kynar [®]	
PC2 72-1525	Barbed Connector	1/8 to 1/8 in	Kynar®	
PC2 72-1526	Barbed Connector	1/16 to 3/32 in	Kynar®	
PC2 72-1527	Barbed Connector	1/16 to 1/8 in	Kynar®	
PC2 72-1528	Barbed Connector	3/32 to 1/8 in	Kynar [®]	
PC2 72-1530	L Barbed Connector	3/32 to 3/32 in	Kynar®	
PC2 72-1531	L Barbed Connector	1/8 to 1/8 in	Kynar [®]	
PC2 72-1533	L Barbed Connector	1/16 to 1/8 in	Kynar®	
PC2 72-1535	T Barbed Connector	1/16 to 1/16 in	Kynar®	
PC2 72-1536	T Barbed Connector	3/32 to 3/32 in	Kynar®	
PC2 72-1537	T Barbed Connector	1/8 to 1/8 in	Kynar [®]	
PC2 72-1539	T Barbed Connector	1/16 to 1/8 in	Kynar®	
PC2 72-1540	T Barbed Connector	3/32 to 1/8 in	Kynar®	
PC2 72-1541	Y Barbed Connector	1/16 to 1/16 in	Kynar®	
PC2 72-1542	Y Barbed Connector	3/32 to 3/32 in	Kynar®	
PC2 72-1543	Y Barbed Connector	1/8 to 1/8 in	Kynar [®]	

PC2 72-1412	Medium Black Nylon B	arbed Connector Kit	:
PC2 72-1412	Complete Kit	1/4, 5/16 & 3/8 in	Black Nylon
KIT COMPONENTS	:		
PC2 72-1547	Barbed Connector	1/4 to 1/4 in	Black Nylon
PC2 72-1548	Barbed Connector	5/16 to 5/16 in	Black Nylon
PC2 72-1549	Barbed Connector	3/8 to 3/8 in	Black Nylon
PC2 72-1550	Barbed Connector	1/4 to 5/16 in	Black Nylon
PC2 72-1551	Barbed Connector	1/4 to 3/8 in	Black Nylon
PC2 72-1552	Barbed Connector	5/16 to 3/8 in	Black Nylon
PC2 72-1553	L Barbed Connector	1/4 to 1/4 in	Black Nylon
PC2 72-1554	L Barbed Connector	5/16 to 5/16 in	Black Nylon
PC2 72-1555	L Barbed Connector	3/8 to 3/8 in	Black Nylon
PC2 72-1556	T Barbed Connector	1/4 to 1/4 in	Black Nylon
PC2 72-1557	T Barbed Connector	5/16 to 5/16 in	Black Nylon
PC2 72-1558	Y Barbed Connector	3/8 to 3/8 in	Black Nylon
PC2 72-1559	Y Barbed Connector	1/4 to 1/4 in	Black Nylon
PC2 72-1560	Y Barbed Connector	3/8 to 3/8 in	Black Nylon

Barbed Tubing Connector Kits (Continued)				
ORDER #	PRODUCT	TUBE ID	MATERIAL	
PC2 72-1413	Medium Polypropylene	Barbed Connector	Kit	
KIT COMPONENTS	S:			
PC2 72-1561	Barbed Connector	1/4 to 1/4 in	Polypropylene	
PC2 72-1562	Barbed Connector	5/16 to 5/16 in	Polypropylene	
PC2 72-1563	Barbed Connector	3/8 to 3/8 in	Polypropylene	
PC2 72-1564	Barbed Connector	1/4 to 5/16 in	Polypropylene	
PC2 72-1565	Barbed Connector	1/4 to 3/8 in	Polypropylene	
PC2 72-1566	Barbed Connector	5/16 to 3/8 in	Polypropylene	
PC2 72-1567	L Barbed Connector	1/4 to 1/4 in	Polypropylene	
PC2 72-1568	L Barbed Connector	5/16 to 5/16 in	Polypropylene	
PC2 72-1569	L Barbed Connector	3/8 to 3/8 in	Polypropylene	
PC2 72-1570	T Barbed Connector	1/4 to 1/4 in	Polypropylene	
PC2 72-1571	T Barbed Connector	5/16 to 5/16 in	Polypropylene	
PC2 72-1572	T Barbed Connector	3/8 to 3/8 in	Polypropylene	
PC2 72-1573	Y Barbed Connector	1/4 to 1/4 in	Polypropylene	
PC2 72-1574	Y Barbed Connector	3/8 to 3/8 in	Polypropylene	

PC2 72-1414	Medium Kynar® Barbed Connector Kit			
KIT COMPONENTS	:			
PC2 72-1575	Barbed Connector	1/4 to 1/4 in	Kynar®	
PC2 72-1576	Barbed Connector	5/16 to 5/16 in	Kynar®	
PC2 72-1577	Barbed Connector	3/8 to 3/8 in	Kynar [®]	
PC2 72-1578	Barbed Connector	1/4 to 5/16 in	Kynar [®]	
PC2 72-1579	Barbed Connector	1/4 to 3/8 in	Kynar [®]	
PC2 72-1580	Barbed Connector	5/16 to 3/8 in	Kynar [®]	
PC2 72-1581	L Barbed Connector	1/4 to 1/4 in	Kynar [®]	
PC2 72-1582	L Barbed Connector	5/16 to 5/16 in	Kynar [®]	
PC2 72-1583	L Barbed Connector	3/8 to 3/8 in	Kynar [®]	
PC2 72-1584	T Barbed Connector	1/4 to 1/4 in	Kynar [®]	
PC2 72-1585	T Barbed Connector	5/16 to 5/16 in	Kynar [®]	
PC2 72-1586	T Barbed Connector	3/8 to 3/8 in	Kynar [®]	
PC2 72-1587	Y Barbed Connector	1/4 to 1/4 in	Kynar [®]	
PC2 72-1588	Y Barbed Connector	3/8 to 3/8 in	Kynar®	





Barbed Tubing Connector Kits (Continued)					
ORDER #	PRODUCT	TUBE ID	MATERIAL		
PC2 72-1415	Large Black Nylon Bark	oed Connector Kit			
KIT COMPONENTS	:				
PC2 72-1589	Barbed Connector	1/2 to 1/2 in	Black Nylon		
PC2 72-1590	Barbed Connector	5/8 to 5/8 in	Black Nylon		
PC2 72-1591	L Barbed Connector	1/2 to 1/2 in	Black Nylon		
PC2 72-1592	L Barbed Connector	5/8 to 5/8 in	Black Nylon		
PC2 72-1593	T Barbed Connector	1/2 to 1/2 in	Black Nylon		
PC2 72-1594	T Barbed Connector	5/8 to 5/8 in	Black Nylon		
PC2 72-1595	Y Barbed Connector	1/2 to 5/8 in	Black Nylon		
PC2 72-1596	Y Barbed Connector	1/2 to 1/2 in	Black Nylon		



PC2 72-1416	Large Polypropylene Barbed Connector Kit		
KIT COMPONENTS	S:		
PC2 72-1597	Barbed Connector	1/2 to 1/2 in	Polypropylene
PC2 72-1598	Barbed Connector	5/8 to 5/8 in	Polypropylene
PC2 72-1599	L Barbed Connector	1/2 to 1/2 in	Polypropylene
PC2 72-1600	L Barbed Connector	5/8 to 5/8 in	Polypropylene
PC2 72-1601	T Barbed Connector	1/2 to 1/2 in	Polypropylene
PC2 72-1602	T Barbed Connector	5/8 to 5/8 in	Polypropylene
PC2 72-1603	Y Barbed Connector	1/2 to 5/8 in	Polypropylene
PC2 72-1604	Y Barbed Connector	1/2 to 1/2 in	Polypropylene

PC2 72-1417	Large Kynar® Barbed Connector Kit			
KIT COMPONENTS	KIT COMPONENTS:			
PC2 72-1605	Barbed Connector	1/2 to 1/2 in	Kynar [®]	
PC2 72-1606	Barbed Connector	5/8 to 5/8 in	Kynar [®]	
PC2 72-1607	L Barbed Connector	1/2 to 1/2 in	Kynar®	
PC2 72-1608	L Barbed Connector	5/8 to 5/8 in	Kynar®	
PC2 72-1609	T Barbed Connector	1/2 to 1/2 in	Kynar®	
PC2 72-1610	T Barbed Connector	5/8 to 5/8 in	Kynar®	
PC2 72-1611	Y Barbed Connector	1/2 to 5/8 in	Kynar®	
PC2 72-1612	Y Barbed Connector	1/2 to 1/2 in	Kynar®	

Luer to Tube Kits



The Luer Connector Kits contain a selection of Luer fittings to interconnect Luer connectors (e.g. syringes, stopcocks and needles) with one another and with tubing. These kits are available in white nylon, polypropylene and Kynar®, a chemically resistant autoclavable plastic. Each kit is supplied in a convenient box. All kit components are also sold separately.

The Male Luer Taper kits contain a selection of Male Luer Taper fittings to barbed connectors as well as Male Luer Taper to Male Luer Taper fittings. These kits also contain color coded rotating Luer lock rings that securely snap onto the Male Luer Taper side of each connector. These kits are available in white nylon, polypropylene and Kynar®, a chemically resistant autoclavable plastic. Each kit is supplied in a convenient box. All kit components are also sold separately.

Luer to Tube Kits			
ORDER #	PRODUCT	TUBE ID	MATERIAL
PC2 72-1406	White Nylon Luer Conn	ector Kit	
KIT COMPONENTS):		
PC2 72-1418	Barbed Connector	FLL to 1/16 in	White Nylon
PC2 72-1419	Barbed Connector	FLL to 3/32 in	White Nylon
PC2 72-1420	Barbed Connector	FLL to 1/8 in	White Nylon
PC2 72-1421	Barbed Connector	FLL to 5/32 in	White Nylon
PC2 72-1422	Barbed Connector	FLL to 3/16 in	White Nylon
PC2 72-1423	Barbed Connector	FLL to 1/4 in	White Nylon
PC2 72-1424	Barbed Connector	FLL to 1/16 in	White Nylon
PC2 72-1425	Barbed Connector	FLL to 3/32 in	White Nylon
PC2 72-1426	Barbed Connector	FLL to 1/8 in	White Nylon
PC2 72-1427	Barbed Connector	FLL to 5/32 in	White Nylon
PC2 72-1428	Barbed Connector	FLL to 3/16 in	White Nylon
PC2 72-1429	Barbed Connector	FLL to 1/4 in	White Nylon
PC2 72-1430	Cap Connector	MLL	White Nylon
PC2 72-1431	Cap Connector	FLL	White Nylon
PC2 72-2735	Coupler with Threaded FLL Connection	FLL to MLL	White Nylon
PC2 72-1433	Connector	MLT to MLT	White Nylon
PC2 72-1434	Connector	FLL to FLL	White Nylon
PC2 72-1435	Elbow Connector	FLL to FLL	White Nylon
PC2 72-1436	T Connector	3-Way FLL	White Nylon

Luer to Tube Kits (Continued)			
ORDER #	PRODUCT	TUBE ID	MATERIAL
PC2 72-1407	Polypropylene Luer Co	nnector Kit	
KIT COMPONENTS	:		
PC2 72-1437	Barbed Connector	FLL to 1/16	Polypropylene
PC2 72-1438	Barbed Connector	FLL to 3/32	Polypropylene
PC2 72-1439	Barbed Connector	FLL to 1/8	Polypropylene
PC2 72-1440	Barbed Connector	FLL to 5/32	Polypropylene
PC2 72-1441	Barbed Connector	FLL to 3/16	Polypropylene
PC2 72-1442	Barbed Connector	FLL to 1/4	Polypropylene
PC2 72-1443	Barbed Connector	MLL to 1/16	Polypropylene
PC2 72-1444	Barbed Connector	MLL to 3/32	Polypropylene
PC2 72-1445	Barbed Connector	MLL to 1/8	Polypropylene
PC2 72-1446	Barbed Connector	MLL to 5/32	Polypropylene
PC2 72-1447	Barbed Connector	MLL to 3/16	Polypropylene
PC2 72-1448	Barbed Connector	MLL to 1/4	Polypropylene
PC2 72-1449	Cap Connector	MLL	Polypropylene
PC2 72-1450	Cap Connector	FLL	Polypropylene
PC2 72-2736	Coupler w/ Threaded FLL Connection	FLL to MLL	Polypropylene
PC2 72-1452	Connector	MLT to MLT	Polypropylene
PC2 72-1453	Connector	FLL to FLL	Polypropylene
PC2 72-1454	Elbow Connector	FLL to FLL	Polypropylene
PC2 72-1455	T Connector	3-Way FLL	Polypropylene

PC2 72-1408	Kynar® Luer Connector Kit		
KIT COMPONENTS	:		
PC2 72-1456	Barbed Connector	FLL to 1/16	Kynar [®]
PC2 72-1457	Barbed Connector	FLL to 3/32	Kynar [®]
PC2 72-1458	Barbed Connector	FLL to 1/8	Kynar [®]
PC2 72-1462	Barbed Connector	MLL to 1/16	Kynar [®]
PC2 72-1464	Barbed Connector	MLL to 1/8	Kynar [®]
PC2 72-1465	Barbed Connector	MLL to 5/32	Kynar [®]
PC2 72-1466	Barbed Connector	MLL to 3/16	Kynar [®]
PC2 72-1467	Barbed Connector	MLL to 1/4	Kynar [®]
PC2 72-1468	Cap Connector	MLL	Kynar [®]
PC2 72-1469	Cap Connector	FLL	Kynar [®]
PC2 72-2737	Coupler w/Threaded FLL Connection	FLL to MLL	Kynar [®]
PC2 72-1471	Connector	MLT to MLT	Kynar [®]
PC2 72-1472	Connector	FLL to FLL	Kynar [®]

Luer to Tube Kits (Continued)				
ORDER #	PRODUCT	TUBE ID	MATERIAL	
PC2 72-2738	White Nylon Male Luer	Taper Kit		
KIT COMPONENTS	:			
PC2 72-2731	Snap Luer Lock Ring	Male	Red Nylon	
PC2 72-2732	Snap Luer Lock Ring	Male	Green Nylon	
PC2 72-2733	Snap Luer Lock Ring	Male	Polypropylene	
PC2 72-2695	Barbed Connector	MLT to 1/16 in	White Nylon	
PC2 72-2696	Barbed Connector	MLT to 3/32 in	White Nylon	
PC2 72-2741	Luer Coupler	Luer Coupler Male White I		
PC2 72-2697	Barbed Connector	MLT to 1/8 in	White Nylon	
PC2 72-2698	Barbed Connector	MLT to 5/32 in	White Nylon	
PC2 72-2699	Barbed Connector MLT to 3/16 in		White Nylon	
PC2 72-2700	Barbed Connector	MLT to 1/4 in	White Nylon	
PC2 72-2701	Barbed Connector	MLT to 1/16 in	White Nylon	
PC2 72-2747	T-Connector	FLL/MLT/MLT	White Nylon	
PC2 72-2702	Barbed Connector	MLT to 3/32 in	White Nylon	
PC2 72-2703	Barbed Connector	Barbed Connector MLT to 1/8 in White		
PC2 72-2704	Barbed Connector MLT to 5/32 in White Ny		White Nylon	
PC2 72-2705	Barbed Connector	MLT to 1/8 in	White Nylon	
PC2 72-2706	Barbed Connector	MLT to 1/4 in	White Nylon	
PC2 72-2744	T-Connector	FLL/MLT/FLL	White Nylon	

PC2 72-2739	Polypropylene Male Lue	er Taper Kit	
KIT COMPONENTS	:		
PC2 72-2731	Snap Luer Lock Ring	Male	Red Nylon
PC2 72-2732	Snap Luer Lock Ring	Male	Green Nylon
PC2 72-2733	Snap Luer Lock Ring	Male	Polypropylene
PC2 72-2707	Barbed Connector	MLT to 1/16 in	Polypropylene
PC2 72-2708	Barbed Connector	MLT to 3/32 in	Polypropylene
PC2 72-2742	Luer Coupler	Male	Polypropylene
PC2 72-2709	Barbed Connector	MLT to 1/8 in	Polypropylene
PC2 72-2710	Barbed Connector	MLT to 5/32 in	Polypropylene
PC2 72-2711	Barbed Connector	MLT to 3/16 in	Polypropylene
PC2 72-2712	Barbed Connector	MLT to 1/4 in	Polypropylene
PC2 72-2713	Barbed Connector	MLT to 1/16 in	Polypropylene
PC2 72-2748	T-Connector	FLL/MLT/MLT	Polypropylene
PC2 72-2714	Barbed Connector	MLT to 3/32 in	Polypropylene
PC2 72-2715	Barbed Connector	MLT to 1/8 in	Polypropylene
PC2 72-2716	Barbed Connector	MLT to 5/32 in	Polypropylene
PC2 72-2717	Barbed Connector	MLT to 3/16 in	Polypropylene
PC2 72-2718	Barbed Connector	MLT to 1/4 in	Polypropylene
PC2 72-2745	T-Connector	FLL/MLT/FLL	Polypropylene



Luer to Tube Kits (Continued)			
ORDER #	PRODUCT	TUBE ID	MATERIAL
PC2 72-2740	Polycarbonate Male Lu	er Taper Kit	
KIT COMPONENTS	S:		
PC2 72-2731	Snap Luer Lock Ring	Male	Red Nylon
PC2 72-2732	Snap Luer Lock Ring	Male	Green Nylon
PC2 72-2734	Snap Luer Lock Ring	Male	Polycarbonate
PC2 72-2719	Barbed Connector	MLT to 1/16 in	Polycarbonate
PC2 72-2720	Barbed Connector	MLT to 3/32 in	Polycarbonate
PC2 72-2743	Luer Coupler	Male	Polycarbonate
PC2 72-2721	Barbed Connector	MLT to 1/8 in	Polycarbonate
PC2 72-2722	Barbed Connector	MLT to 5/32 in	Polycarbonate
PC2 72-2723	Barbed Connector	Barbed Connector MLT to 3/16 in	
PC2 72-2724	Barbed Connector	MLT to 1/4 in	Polycarbonate
PC2 72-2725	Barbed Connector	MLT to 1/16 in	Polycarbonate
PC2 72-2749	T-Connector	FLL/MLT/MLT	Polycarbonate
PC2 72-2726	Barbed Connector	MLT to 3/32 in	Polycarbonate
PC2 72-2727	Barbed Connector	MLT to 1/8 in	Polycarbonate
PC2 72-2728	Barbed Connector	MLT to 5/32 in	Polycarbonate
PC2 72-2729	Barbed Connector	MLT to 3/16 in	Polycarbonate
PC2 72-2730	Barbed Connector	MLT to 1/4 in	Polycarbonate
PC2 72-2746	T-Connector	FLL/MLT/FLL	Polycarbonate

Kits and Valves

Flow Control Pinch Valves



The Flow Control Pinch Valves work with tubing from 5/32 inch OD to 3/8 inch OD. The micrometer dial offers easy resetting of clamping distance. These valves are made of Delrin® and Acetal.

Order #	Clamp Size	Tubing Clamp Range
PC2 72-2694	Small	5/32 to 1/4 in OD Tubing
PC2 72-8140	Medium	5/32 to 3/8 in OD Tubing

Tubing Clamp Kits



The clamps in the Tubing Clamp Kit feature a simple-to-use ratcheting design which provides positive and secure clamping of tubing to barbed and non-barbed connectors. Thirteen different clamps provide clamping for tubing sizes from 1/16 inch OD to 1.5 inches OD. This kit is supplied in a convenient box containing 5 of each clamp size.

Order #	Product
PC2 72-1668	Tubing Clamp Kit

Kits and Valves (continued)

Tubing Manifold Kit



The Tubing Manifold Kit contains several varieties of tubing manifolds for tube to tube connections. Many are compatible with MLT (male Luer taper) fittings. This kit is supplied in a convenient box. All kit components are also sold separately.

Tubing Manifold Kit ORDER # **PRODUCT** PC2 72-7481 **Tubing Manifold Kit** KIT COMPONENTS: PC2 72-2665 Multiport Adapter 3 to 1 Modified Y Connector, 0.214" OD ports PC2 72-2666 3-Way Y Connector FLL/FLL/FLL/MLL (ROTATING) PC2 72-2672 Multiport Adapter 3 to 1 Modified Y Connector, 0.161" ID ports PC2 72-2673 Y Connector FLL/FLL/MLL (Rotating) PC2 72-2668 Multiport Adapter 3 to 1 Parallel Tube Connector, 0.154" ID x 0.215" OD ports PC2 72-2675 Multiport Adapter 3 to 1 Parallel Tube Connector, 0.267" ID x 8.6mm OD ports PC2 72-2667 Multiport Adapter 3 to 1 Parallel Tube Connector, 0.142" to 0.158" ID ports PC2 72-7479 Multiport Adapter 2 to 1 Parallel Tube Connector. 0.142" to 0.158" ID ports PC2 72-7480 Multiport Adapter 2 to 1 Parallel Tube Connector, 0.161" ID ports PC2 72-2677 Multiport Adapter 6 to 1 Parallel Tube Connector, 0.161" ID ports

Luer Stopcock Kit





The Luer Stopcock Kit includes a collection of 1-, 3- and 4-way stopcocks. Fittings include MLL (male Luer lock), FLL (female Luer lock) and Male Luer Slip. Some stopcocks have high pressure capabilities. This kit is supplied in a convenient box. All kit components are also sold separately.

Luer Stopcocl	k Kit
ORDER #	PRODUCT
PC2 72-1664	Luer Stopcock Kit
KIT COMPONENTS:	
PC2 72-8327	One Way Stopcock (200 psi), FLL/Male Luer Slip
PC2 72-2647	One Way Stopcock (500 psi), FLL/MLL (Non-Rotating)
PC2 72-2648	3-Way Stopcock (1050 psi), FLL/FLL/MLL (Rotating)
PC2 72-2649	3-Way Stopcock (200 psi), FLL/FLL/MLL (Non-Rotating)
PC2 72-2650	One Way Stopcock (1050 psi), FLL/MLL (Non-Rotating)
PC2 72-8326	One Way Stopcock (200 psi), FLL/MLL (Rotating)
PC2 72-8328	4-Way Stopcock, FLL/FLL/Male Luer Slip
PC2 72-2693	3-Way Stopcock (200 psi), FLL/FLL/Male Luer Slip
PC2 72-2654	4-Way Stopcock, FLL/FLL/MLL (Rotating)
PC2 72-2655	One Way Stopcock (1050 psi), FLL/MLL (Rotating)
PC2 72-2656	3-Way Stopcock, FLL/FLL/MLL (Rotating)
PC2 72-2657	One Way Stopcock (500 psi), FLL/MLL (Rotating)
PC2 72-2658	3-Way Stopcock (1050 psi), FLL/FLL/MLL (Non-Rotating)
PC2 72-2659	3-Way Stopcock, FLL/FLL/FLL
PC2 72-2660	3-Way Stopcock (500 psi), FLL/FLL/MLL (Non-Rotating)
PC2 72-2661	4-Way Stopcock, FLL/FLL/MLL (Rotating)
PC2 72-2662	3-Way Stopcock (200 psi), FLL/FLL/MLL (Rotating)
PC2 72-2663	One Way Stopcock, FLL/MLL (Rotating)
PC2 72-9473	3-Way Stopcock, FLL/FLL/MLL (Non-Rotating)

Kits and Valves (continued)

Sterile Stopcocks



KEY FEATURES

- Low torque, smooth turning construction
- Unique threaded female Luer connection
- 1-, 3-, and 4-way stopcocks
- Available with extension tube sets

Stopcocks provide safe and simple interconnection of your tubing and syringe lines no matter what the application. Whether it is complex control of fluid infusions from a syringe or interconnection of pressure transducers and fluid injections lines in an isolated heart preparation, we have a wide selection of Luer stopcocks to suit virtually every need. These stopcocks are available in 1-, 3-, and 4-way valve styles and come with or without extension tube sets. Each product found in the list below is sterile, packaged individually and supplied in a box of 50.

Order #	Product	
PC2 72-2626	1-Way MLL to FLL Stopcock, with Port Covers	
PC2 72-2627	1-Way FLL to MLT Stopcock, with Port Covers	
PC2 72-2628	Multipath* Stopcock, 2 x FLT, Injection Site, 20 inch Ext. Tube	
PC2 72-2630	3-Way Stopcock, FLL to MLT, No Port Covers	
PC2 72-2631	3-Way Stopcock, FLL to MLT with Port Covers	
PC2 72-2632	3-Way Stopcock FLL to 20 inch Ext. Tube Set	
PC2 72-2633	3-Way Stopcock FLL to 33 inch Ext. Tube Set	
PC2 72-2634	Double 3-Way Stopcock, FLL to MLL with Port Covers	
PC2 72-2635	3-Way, FLL to MLL with Port Covers	
PC2 72-2637	4-Way, FLL to 20 inch Ext. Tube Set	
PC2 72-2638	4-Way, FLL to MLL with Port Covers	
Abbreviations: MLT (Male Luer Taper); FLT (Female Luer Taper); FLL (Female Luer Lock); MLL (Male Luer Lock)		
Note: All 3-Way and 4-Way Stopcocks feature FLL side ports. All extension tubes terminate in a MLT fitting with port cover.		

*Special 3-Way valve, rotating valve selects side port for infusion.

Spring-Clip Stopcocks



KEY FEATURES

- Made from chrome-plated brass
- Unique spring-clip holds key in position
- Easy interface with other Luer fittings
- Autoclavable

Spring-Clip Stopcocks			
ORDER #	B-D SPRING CLIP EQUIV.	TYPE	DESCRIPTION
PC2 59-8121	3138	3-Way	FLL to MLT, Right Side - FLL
PC2 59-8122	3161	3-Way	FLL to MLT, Right Side - Hose Barb ³
PC2 59-8123	3150	3-Way	FLL to MLL, Right Side - Hose Barb ³
PC2 59-8124	3156	3-Way	FLL to MLL, Right Side - FLL
PC2 59-8125 ¹	3192	3-Way	FLL to MLT, Left Side - FLL
PC2 59-8126 ²	3135	1-Way	FLL to MLT
PC2 59-8127 ¹	3152	1-Way	FLL to MLL
18			

¹Product not pictured

²FLL (Female Luer Lock); MLT (Male Luer Taper)

³Barb size from 3.2 to 9.5 mm

Micro Tubing and Connector Kit, Syringe Needles

Parts and Accessories



The kit is comprised of barbed and Luer fittings, blunt end needles, and an assortment of PE and C-Flex tubing. All barbed and Luer fittings are made from polypropylene and include tube to tube, reducing, Y-, T-, Luer-to-Luer, and Luer-to-barb adapters.

Comes in a convenient plastic storage box.

Order #	Model	Product
PC2 64-1565	KIT-1	Fitting and Tubing Kit

Components listed at right are included in the tubing and connector kit. Components also sold separately.









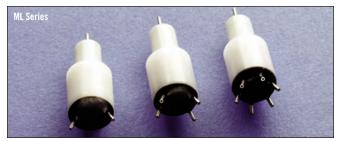




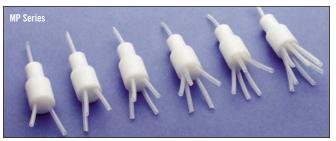
Order #	Product		
PC2 64-1566	Tube Fitting Barb $1/8$ " to $1/16$ ", pkg. of 10		
PC2 64-1567	Tube Fitting Barb 1/16" to 1/16", pkg. of 10		
PC2 64-1568	Tube Fitting Barb 1/8" to 1/8", pkg. of 10		
PC2 64-1569	Tube Fitting Tee Barb 1/16", pkg. of 10		
PC2 64-1570	Tube Fitting Tee Barb 1/8", pkg. of 10		
PC2 64-1571	Tube Fitting Y Barb 1/16", pkg. of 10		
PC2 64-1572	Tube Fitting Y Barb 1/8", pkg. of 10		
PC2 64-1573	Tube Fitting Barb 1/16" to Luer Male, pkg. of 10		
PC2 64-1574	Tube Fitting Barb 1/8" to Luer Male, pkg. of 10		
PC2 64-1575	Tube Fitting Barb 1/16" to Luer Female, pkg. of 10		
PC2 64-1576	Tube Fitting Barb 1/8" to Luer Female, pkg. of 10		
PC2 64-1577	Tube Fitting Luer Male to Luer Female, pkg. of 10		
PC2 64-1578	Tube Fitting Luer Tee Female, pkg. of 10		
PC2 64-1579	Tube Fitting Luer Male to Luer Male, pkg. of 10		
PC2 64-1580	Tube Fitting Luer Female to Luer Female, pkg. of 10		
PC2 64-1581	Tube Fitting Luer Female Plug, pkg. of 10		
PC2 64-1582	Tube Fitting Luer Male Plug, pkg. of 10		
PC2 64-0141	LPE-50, Luer to PE-50 tubing adapter, pkg. of 8		
PC2 64-0166	CFL-6, C-Flex tubing (1/32" ID x 6 ft) 3/32 OD mm, 6 ft		
BLUNT NEEDLE P	LASTIC HUB		
PC2 64-1489	SN-18, 18G, 0.5", pkg. of 12		
PC2 64-1490	SN-23, 23G, 0.5", pkg. of 12		
PC2 64-1583	SN-30, 30G, 0.5", pkg. of 12		
PC2 64-1869	SN-20, 20G, 0.5", Pkg. of 12		
POLYETHYLENE T	UBING		
PC2 64-0750	PE-10/10., 0.28 ID x 0.61 OD mm, 3.1 m (10 ft) long		
PC2 64-0752	PE-50/10., 0.58 ID x 0.97 OD mm, 3.1 (10 ft) long		
PC2 64-0754	PE-90/10., 0.86 ID x 1.27 OD mm, 3.1 m (10 ft) long		
PC2 64-0755	PE-160/10., 1.14 ID x 1.57 OD mm, 3.1 m (10 ft) long		

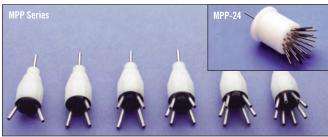
ML, MM, MP and MPP Series

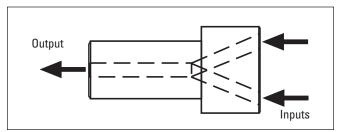
Manifolds and Flow Control Hardware











ML, MM, MP and MPP Series Material and Size Chart				
ML Series MM Series MP Series MP	P Series			
MATERIAL Delrin™ Delrin™ PTFE Del	rin™			
LARGE DIAMETER 8.0 mm 8.0 mm 9.4 mm 9.4	mm			
SMALL DIAMETER 4.7 mm 4.7 mm 6.3 mm 4.7	mm			
BODY LENGTH 18 mm 18 mm 22 mm 21	mm			
INPUT TUBING PE-50 PE-50 PE-160 PE-	-160			
OUTPUT TUBING PE-50 PE-10 PE-160 PE-	-160			

Multi-in or multi-out manifolds for fluid management

Harvard Apparatus manifolds can be used in any application where from 2 to 8 perfusion lines are required to be connected to a chamber or other device. Manifold inputs converge to the common output with minimum dead space. Designed for use with polyethylene (PE) tubing, manifolds can be used with any other tubing of similar dimensions. When connected to a chamber via a short length of tubing, very rapid solution changes are possible.

ML and MM Series

These miniature manifolds are useful for applications involving small volumes or slow flow rates. Small diameter tubing is used with these models; PE-50 tubing for the input ports, and PE-10 or PE-50 tubing for the MM or ML series output ports, respectively.

MP Series

MP series manifolds are recommended low pressure (< 25 psi) systems. Input and output tubing are inserted with a friction fit. Manifolds should be ordered with inputs to match the number of solutions to be connected. Pin plugs to block unused inputs are also supplied. MP series manifolds are used with PE-160 tubing.

MPP Series

These manifolds are suitable for systems in which solutions are pumped or at pressures < 25 psi. Input and output ports are 18 gauge stainless steel hypodermic tubing. PE-160 tubing slides over these ports to make a snug fit.

Order # Model Product PC2 64-0200 ML-2 Miniature Manifold, 2 ports PC2 64-0201 ML-4 Miniature Manifold, 4 ports PC2 64-0202 ML-6 Miniature Manifold, 8 ports PC2 64-0199 ML-8 Miniature Manifold, 8 ports PC2 64-0203 MM-2 Miniature Manifold, 2 ports PC2 64-0204 MM-4 Miniature Manifold, 4 ports PC2 64-0205 MM-6 Miniature Manifold, 6 ports PC2 64-0206 MP-2 MP Manifold, 2 ports PC2 64-0207 MP-3 MP Manifold, 3 ports PC2 64-0208 MP-4 MP Manifold, 4 ports PC2 64-0209 MP-5 MP Manifold, 5 ports PC2 64-0210 MP-6 MP Manifold, 8 ports PC2 64-0211 MP-8 MPP Manifold, 2 ports PC2 64-0212 MPP-2 MPP Manifold, 3 ports PC2 64-0213 MPP-3 MPP Manifold, 5 ports PC2 64-0215 MPP-4 MPP Manifold, 5 ports PC2 64-0216 MPP-5 MPP Manifold, 6 ports PC2 64-0216 MPP-6 <th></th> <th></th> <th></th>			
PC2 64-0201 ML-4 Miniature Manifold, 4 ports PC2 64-0202 ML-6 Miniature Manifold, 6 ports PC2 64-0199 ML-8 Miniature Manifold, 8 ports PC2 64-0203 MM-2 Miniature Manifold, 2 ports PC2 64-0204 MM-4 Miniature Manifold, 4 ports PC2 64-0205 MM-6 Miniature Manifold, 6 ports PC2 64-0206 MP-2 MP Manifold, 2 ports PC2 64-0207 MP-3 MP Manifold, 3 ports PC2 64-0208 MP-4 MP Manifold, 5 ports PC2 64-0209 MP-5 MP Manifold, 6 ports PC2 64-0210 MP-6 MP Manifold, 8 ports PC2 64-0211 MP-8 MPP Manifold, 2 ports PC2 64-0212 MPP-3 MPP Manifold, 3 ports PC2 64-0214 MPP-4 MPP Manifold, 4 ports PC2 64-0215 MPP-5 MPP Manifold, 5 ports PC2 64-0216 MPP-6 MPP Manifold, 6 ports PC2 64-0217 MPP-8 MPP Manifold, 8 ports	Order #	Model	Product
PC2 64-0202 ML-6 Miniature Manifold, 6 ports PC2 64-0199 ML-8 Miniature Manifold, 8 ports PC2 64-0203 MM-2 Miniature Manifold, 2 ports PC2 64-0204 MM-4 Miniature Manifold, 4 ports PC2 64-0205 MM-6 Miniature Manifold, 6 ports PC2 64-0206 MP-2 MP Manifold, 2 ports PC2 64-0207 MP-3 MP Manifold, 3 ports PC2 64-0208 MP-4 MP Manifold, 5 ports PC2 64-0210 MP-5 MP Manifold, 6 ports PC2 64-0211 MP-8 MP Manifold, 2 ports PC2 64-0212 MPP-2 MPP Manifold, 3 ports PC2 64-0213 MPP-3 MPP Manifold, 3 ports PC2 64-0214 MPP-4 MPP Manifold, 4 ports PC2 64-0215 MPP-5 MPP Manifold, 5 ports PC2 64-0216 MPP-6 MPP Manifold, 6 ports PC2 64-0217 MPP-8 MPP Manifold, 8 ports	PC2 64-0200	ML-2	Miniature Manifold, 2 ports
PC2 64-0199 ML-8 Miniature Manifold, 8 ports PC2 64-0203 MM-2 Miniature Manifold, 2 ports PC2 64-0204 MM-4 Miniature Manifold, 4 ports PC2 64-0205 MM-6 Miniature Manifold, 6 ports PC2 64-0206 MP-2 MP Manifold, 2 ports PC2 64-0207 MP-3 MP Manifold, 3 ports PC2 64-0208 MP-4 MP Manifold, 4 ports PC2 64-0209 MP-5 MP Manifold, 6 ports PC2 64-0210 MP-6 MP Manifold, 8 ports PC2 64-0211 MP-8 MP Manifold, 2 ports PC2 64-0212 MPP-2 MPP Manifold, 3 ports PC2 64-0213 MPP-3 MPP Manifold, 4 ports PC2 64-0214 MPP-4 MPP Manifold, 5 ports PC2 64-0215 MPP-5 MPP Manifold, 6 ports PC2 64-0216 MPP-6 MPP Manifold, 8 ports	PC2 64-0201	ML-4	Miniature Manifold, 4 ports
PC2 64-0203 MM-2 Miniature Manifold, 2 ports PC2 64-0204 MM-4 Miniature Manifold, 4 ports PC2 64-0205 MM-6 Miniature Manifold, 6 ports PC2 64-0206 MP-2 MP Manifold, 2 ports PC2 64-0207 MP-3 MP Manifold, 3 ports PC2 64-0208 MP-4 MP Manifold, 4 ports PC2 64-0209 MP-5 MP Manifold, 5 ports PC2 64-0210 MP-6 MP Manifold, 8 ports PC2 64-0211 MP-8 MP Manifold, 2 ports PC2 64-0212 MPP-2 MPP Manifold, 3 ports PC2 64-0213 MPP-3 MPP Manifold, 4 ports PC2 64-0214 MPP-4 MPP Manifold, 5 ports PC2 64-0215 MPP-5 MPP Manifold, 6 ports PC2 64-0216 MPP-6 MPP Manifold, 8 ports	PC2 64-0202	ML-6	Miniature Manifold, 6 ports
PC2 64-0204 MM-4 Miniature Manifold, 4 ports PC2 64-0205 MM-6 Miniature Manifold, 6 ports PC2 64-0206 MP-2 MP Manifold, 2 ports PC2 64-0207 MP-3 MP Manifold, 3 ports PC2 64-0208 MP-4 MP Manifold, 4 ports PC2 64-0209 MP-5 MP Manifold, 5 ports PC2 64-0210 MP-6 MP Manifold, 6 ports PC2 64-0211 MP-8 MP Manifold, 2 ports PC2 64-0212 MPP-2 MPP Manifold, 3 ports PC2 64-0213 MPP-3 MPP Manifold, 4 ports PC2 64-0214 MPP-4 MPP Manifold, 5 ports PC2 64-0215 MPP-5 MPP Manifold, 5 ports PC2 64-0216 MPP-6 MPP Manifold, 8 ports PC2 64-0217 MPP-8 MPP Manifold, 8 ports	PC2 64-0199	ML-8	Miniature Manifold, 8 ports
PC2 64-0205 MM-6 Miniature Manifold, 6 ports PC2 64-0206 MP-2 MP Manifold, 2 ports PC2 64-0207 MP-3 MP Manifold, 3 ports PC2 64-0208 MP-4 MP Manifold, 4 ports PC2 64-0209 MP-5 MP Manifold, 5 ports PC2 64-0210 MP-6 MP Manifold, 6 ports PC2 64-0211 MP-8 MP Manifold, 2 ports PC2 64-0212 MPP-2 MPP Manifold, 3 ports PC2 64-0213 MPP-3 MPP Manifold, 4 ports PC2 64-0214 MPP-4 MPP Manifold, 5 ports PC2 64-0215 MPP-5 MPP Manifold, 6 ports PC2 64-0216 MPP-6 MPP Manifold, 8 ports PC2 64-0217 MPP-8 MPP Manifold, 8 ports	PC2 64-0203	MM-2	Miniature Manifold, 2 ports
PC2 64-0206 MP-2 MP Manifold, 2 ports PC2 64-0207 MP-3 MP Manifold, 3 ports PC2 64-0208 MP-4 MP Manifold, 4 ports PC2 64-0209 MP-5 MP Manifold, 5 ports PC2 64-0210 MP-6 MP Manifold, 6 ports PC2 64-0211 MP-8 MP Manifold, 2 ports PC2 64-0212 MPP-2 MPP Manifold, 2 ports PC2 64-0213 MPP-3 MPP Manifold, 3 ports PC2 64-0214 MPP-4 MPP Manifold, 4 ports PC2 64-0215 MPP-5 MPP Manifold, 5 ports PC2 64-0216 MPP-6 MPP Manifold, 6 ports PC2 64-0217 MPP-8 MPP Manifold, 8 ports	PC2 64-0204	MM-4	Miniature Manifold, 4 ports
PC2 64-0207 MP-3 MP Manifold, 3 ports PC2 64-0208 MP-4 MP Manifold, 4 ports PC2 64-0209 MP-5 MP Manifold, 5 ports PC2 64-0210 MP-6 MP Manifold, 6 ports PC2 64-0211 MP-8 MP Manifold, 8 ports PC2 64-0212 MPP-2 MPP Manifold, 2 ports PC2 64-0213 MPP-3 MPP Manifold, 3 ports PC2 64-0214 MPP-4 MPP Manifold, 4 ports PC2 64-0215 MPP-5 MPP Manifold, 5 ports PC2 64-0216 MPP-6 MPP Manifold, 8 ports PC2 64-0217 MPP-8 MPP Manifold, 8 ports	PC2 64-0205	MM-6	Miniature Manifold, 6 ports
PC2 64-0208 MP-4 MP Manifold, 4 ports PC2 64-0209 MP-5 MP Manifold, 5 ports PC2 64-0210 MP-6 MP Manifold, 6 ports PC2 64-0211 MP-8 MP Manifold, 8 ports PC2 64-0212 MPP-2 MPP Manifold, 2 ports PC2 64-0213 MPP-3 MPP Manifold, 3 ports PC2 64-0214 MPP-4 MPP Manifold, 4 ports PC2 64-0215 MPP-5 MPP Manifold, 5 ports PC2 64-0216 MPP-6 MPP Manifold, 8 ports PC2 64-0217 MPP-8 MPP Manifold, 8 ports	PC2 64-0206	MP-2	MP Manifold, 2 ports
PC2 64-0209 MP-5 MP Manifold, 5 ports PC2 64-0210 MP-6 MP Manifold, 6 ports PC2 64-0211 MP-8 MP Manifold, 8 ports PC2 64-0212 MPP-2 MPP Manifold, 2 ports PC2 64-0213 MPP-3 MPP Manifold, 3 ports PC2 64-0214 MPP-4 MPP Manifold, 4 ports PC2 64-0215 MPP-5 MPP Manifold, 5 ports PC2 64-0216 MPP-6 MPP Manifold, 8 ports PC2 64-0217 MPP-8 MPP Manifold, 8 ports	PC2 64-0207	MP-3	MP Manifold, 3 ports
PC2 64-0210 MP-6 MP Manifold, 6 ports PC2 64-0211 MP-8 MP Manifold, 8 ports PC2 64-0212 MPP-2 MPP Manifold, 2 ports PC2 64-0213 MPP-3 MPP Manifold, 3 ports PC2 64-0214 MPP-4 MPP Manifold, 4 ports PC2 64-0215 MPP-5 MPP Manifold, 5 ports PC2 64-0216 MPP-6 MPP Manifold, 6 ports PC2 64-0217 MPP-8 MPP Manifold, 8 ports	PC2 64-0208	MP-4	MP Manifold, 4 ports
PC2 64-0211 MP-8 MP Manifold, 8 ports PC2 64-0212 MPP-2 MPP Manifold, 2 ports PC2 64-0213 MPP-3 MPP Manifold, 3 ports PC2 64-0214 MPP-4 MPP Manifold, 4 ports PC2 64-0215 MPP-5 MPP Manifold, 5 ports PC2 64-0216 MPP-6 MPP Manifold, 6 ports PC2 64-0217 MPP-8 MPP Manifold, 8 ports	PC2 64-0209	MP-5	MP Manifold, 5 ports
PC2 64-0212 MPP-2 MPP Manifold, 2 ports PC2 64-0213 MPP-3 MPP Manifold, 3 ports PC2 64-0214 MPP-4 MPP Manifold, 4 ports PC2 64-0215 MPP-5 MPP Manifold, 5 ports PC2 64-0216 MPP-6 MPP Manifold, 6 ports PC2 64-0217 MPP-8 MPP Manifold, 8 ports	PC2 64-0210	MP-6	MP Manifold, 6 ports
PC2 64-0213 MPP-3 MPP Manifold, 3 ports PC2 64-0214 MPP-4 MPP Manifold, 4 ports PC2 64-0215 MPP-5 MPP Manifold, 5 ports PC2 64-0216 MPP-6 MPP Manifold, 6 ports PC2 64-0217 MPP-8 MPP Manifold, 8 ports	PC2 64-0211	MP-8	MP Manifold, 8 ports
PC2 64-0214 MPP-4 MPP Manifold, 4 ports PC2 64-0215 MPP-5 MPP Manifold, 5 ports PC2 64-0216 MPP-6 MPP Manifold, 6 ports PC2 64-0217 MPP-8 MPP Manifold, 8 ports	PC2 64-0212	MPP-2	MPP Manifold, 2 ports
PC2 64-0215 MPP-5 MPP Manifold, 5 ports PC2 64-0216 MPP-6 MPP Manifold, 6 ports PC2 64-0217 MPP-8 MPP Manifold, 8 ports	PC2 64-0213	MPP-3	MPP Manifold, 3 ports
PC2 64-0216 MPP-6 MPP Manifold, 6 ports PC2 64-0217 MPP-8 MPP Manifold, 8 ports	PC2 64-0214	MPP-4	MPP Manifold, 4 ports
PC2 64-0217 MPP-8 MPP Manifold, 8 ports	PC2 64-0215	MPP-5	MPP Manifold, 5 ports
in i mainicia, o porto	PC2 64-0216	MPP-6	MPP Manifold, 6 ports
PC2 64-0339 MPP-24 MPP Manifold, 24 ports	PC2 64-0217	MPP-8	MPP Manifold, 8 ports
	PC2 64-0339	MPP-24	MPP Manifold, 24 ports

All manifolds can be easily disassembled for cleaning.