

# MPX SERIES CONNECTORS



**MPX Series Connectors** add ease of use and security to your media transfer applications. Choose from a full line of connectors and configurations, including pressure sealing caps and plugs in sizes to fit 3/8" and 1/2" tubing. MPX couplings offer optional locking sleeves to further guard against accidental disconnects. In addition, coupling halves can be rotated when connected reducing tube kinks.

## SPECIFICATIONS

### OPERATING PRESSURE

Vacuum to 60 psi, 4.1 bar

### OPERATING TEMPERATURE

#### Polycarbonate:

-40°F to 250°F (-40°C to 121°C)

#### Polysulfone:

-40°F to 300°F (-40°C to 149°C)

### STERILIZATION

**Gamma:** Up to 50 kGy irradiation  
**Autoclave:**

**Polycarbonate:** Up to 250°F (121°C),  
30 minutes, up to 10 repetitions  
Sterilize uncoupled only

**Polysulfone:** Up to 270°F (132°C),  
60 minutes, up to 25 repetitions  
Sterilize uncoupled only

### TERMINATIONS

3/8" to 1/2" ID (9.5mm to 12.7mm)

### MATERIALS

#### Main components:

Polycarbonate (purple tint)

Polysulfone (amber tint)

#### Locking sleeves:

PVDF (white)

#### Thumb Latches:

Polycarbonate (white)

PVDF (white)

#### O-rings:

Silicone (clear), platinum-cured

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

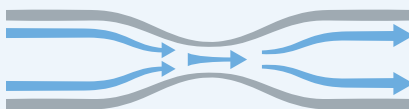
### FEATURES

- Ergonomic thumb latch → Easy to operate – even with gloved hands
- Parting line-free hose barb → Prevents potential leak path
- Optional locking sleeve → Prevents accidental disconnection
- Mix and match termination sizes → Enables flexibility in your system and/or application

### BENEFITS

### TYPICAL FLOW RATE:

**Cv Value Range:** 4 - 17  
for MPX



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

### NOTE

Validation and Extractables data can be requested at [cpcworldwide.com/MPX](http://cpcworldwide.com/MPX)

### DID YOU KNOW

The MPC and MPX connectors are perfect for smaller bag systems for aliquoted media or other product stored in bags.

Scan code to visit webpage



SCAN

[cpcworldwide.com/MPX](http://cpcworldwide.com/MPX)



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# MPX SERIES DIMENSIONS

## COUPLING BODIES



TERMINATION	METRIC EQ.	FLOW	POLYCARBONATE PART NO.	POLYSULFONE PART NO.	A	B
1/2" ID HOSE BARB	12.7 mm ID	.50"	MPX17803	MPX17839	1.28" (32.5 mm)	1.96" (49.8 mm)
1/2" ID HOSE BARB W/ LOCK	12.7 mm ID	.50"	MPXK17803	MPXK17839	1.28" (32.5 mm)	1.96" (49.8 mm)

## COUPLING INSERTS



TERMINATION	METRIC EQ.	FLOW	POLYCARBONATE PART NO.	POLYSULFONE PART NO.	A	B
3/8" HOSE BARB	9.5 mm ID	.38"	MPX22603M	MPX22639M	0.85" (21.6 mm)	1.90" (48.3 mm)
1/2" HOSE BARB	12.7 mm ID	.50"	MPX22803M	MPX22839M	0.85" (21.6 mm)	1.90" (48.3 mm)

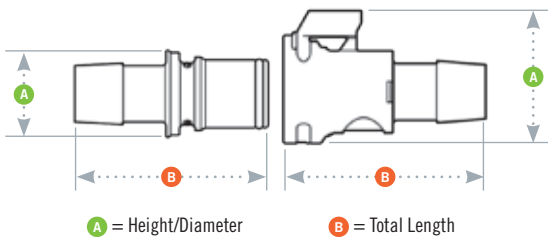
## SEALING COMPONENTS



SEALING CAP	W/LOCK	MATERIAL	A	B
MPX32003	MPXK32003	Polycarbonate	1.28" (32.5 mm)	1.67" (42.4 mm)
MPX32039	MPXK32039	Polysulfone	1.28" (32.5 mm)	1.67" (42.4 mm)
SEALING PLUG		MATERIAL	A	B
MPX30003M		Polycarbonate	1.10" (27.9 mm)	1.66" (42.2 mm)
MPX30039M		Polysulfone	1.10" (27.9 mm)	1.66" (42.2 mm)

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.

## PRODUCT DIMENSIONS



WARRANTY: All sales are subject to Colder Products Company's limited express warranty set forth in the CPC catalog. Contact your local distributor or CPC Customer Service for warranty provisions.

Warning: Due to the wide variety of possible fluid media and operating conditions, unintended consequences may result from the use of this product, all of which are beyond the control of CPC. It is the user's responsibility to carefully determine and test for compatibility for use with their application. All such risks shall be assumed by the buyer.

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