

# MPX SERIES CONNECTOR



**MPX Series couplings** add ease of use and security to your most critical fluid handling 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.

## FEATURES

- Ergonomic thumb latch
- USP Class VI materials
- Sterilizable by autoclave, EtO, e-beam, or gamma
- Parting line-free hose barb
- ADCF-free materials

## BENEFITS

- Easy to operate – even with gloved hands
- Meet biocompatibility requirements
- Reusable, yet economical enough to allow disposability
- Eliminates potential leak path
- Meet BSE/TSE requirements

## Specifications ● ● ●

### PRESSURE:

Vacuum to 60 psi, 4.1 bar

### TEMPERATURE:

#### Polycarbonate:

-40°F to 250°F (-40°C to 121°C)

#### Polysulfone:

-40°F to 300°F (-40°C to 149°C)

### MATERIALS:

#### Main components:

Polycarbonate (purple tint), USP Class VI, ADCF  
Polysulfone (amber tint), USP Class VI, ADCF

#### Locking sleeves:

Polysulfone (white), USP Class VI, ADCF

#### Thumb Latches:

Polycarbonate (white), USP Class VI, ADCF  
Polysulfone (amber tint), USP Class VI, ADCF

**O-rings:** Silicone (clear), platinum-cured, USP Class VI, ADCF

### STERILIZATION:

**Gamma:** Up to 50 kGy irradiation

#### Autoclave:

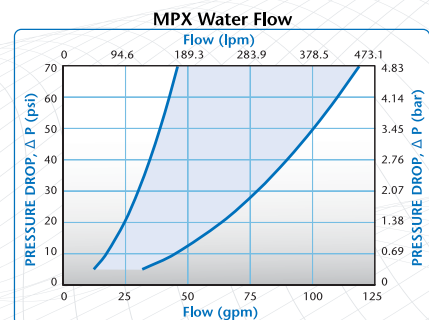
**Polycarbonate:** Up to 250°F (121°C), 30 minutes, up to 10 repetitions. Sterilize uncoupled only.

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

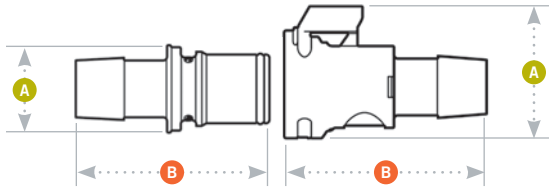
**TUBING SIZES:** 3/8" to 1/2" ID (9.5mm to 12.7mm)

**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.

⚠ This graph is intended to give you a general idea of the performance capabilities of each product line. The shaded area of the graph represents the operating range of the product family, i.e. upper and lower values are shown. Therefore, depending on the exact coupling configurations selected, you can reasonably expect values to fall within the shaded area.



# MPX SERIES CONNECTOR DIMENSIONS



**A** = Height/Diameter  
**B** = Total Length

## Coupling Bodies

### • POLYCARBONATE

	<b>TERMINATION IN-LINE HOSE BARB</b>	<b>TUBING</b> 1/2" ID	<b>METRIC EQ.</b> 12.7mm ID	<b>FLOW</b> .50"	<b>STRAIGHT THRU</b> MPX17803	<b>A</b> 1.28 (32.5)	<b>B</b> 1.96 (49.8)
	<b>IN-LINE HOSE BARB WITH LOCK</b>	1/2" ID	12.7mm ID	.50"	MPXK17803	1.28 (32.5)	1.96 (49.8)

### • POLYSULFONE

	<b>TERMINATION IN-LINE HOSE BARB</b>	<b>TUBING</b> 1/2" ID	<b>METRIC EQ.</b> 12.7mm ID	<b>FLOW</b> .50"	<b>STRAIGHT THRU</b> MPX17839	<b>A</b> 1.28 (32.5)	<b>B</b> 1.96 (49.8)
	<b>IN-LINE HOSE BARB WITH LOCK</b>	1/2" ID	12.7mm ID	.50"	MPXK17839	1.28 (32.5)	1.96 (49.8)

## Coupling Inserts

### • POLYCARBONATE

	<b>TERMINATION IN-LINE HOSE BARB</b>	<b>TUBING</b> 3/8" ID	<b>METRIC EQ.</b> 9.5mm ID	<b>FLOW</b> .38"	<b>STRAIGHT THRU</b> MPX22603M	<b>O-RING</b> Silicone Seal USP Class VI	<b>A</b> .85 (21.6)	<b>B</b> 1.90 (48.3)
		1/2" ID	12.7mm ID	.50"	MPX22803M	Silicone Seal USP Class VI	.85 (21.6)	1.90 (48.3)

### • POLYSULFONE

	<b>TERMINATION IN-LINE HOSE BARB</b>	<b>TUBING</b> 3/8" ID	<b>METRIC EQ.</b> 9.5mm ID	<b>FLOW</b> .38"	<b>STRAIGHT THRU</b> MPX22639M	<b>O-RING</b> Silicone Seal USP Class VI	<b>A</b> .85 (21.6)	<b>B</b> 1.90 (48.3)
		1/2" ID	12.7mm ID	.50"	MPX22839M	Silicone Seal USP Class VI	.85 (21.6)	1.90 (48.3)

## Mating Parts

	<b>SEALING CAP</b> MPX32003	<b>SEALING CAP W/LOCK</b> MPXK32003	<b>MATERIAL</b> Polycarbonate	<b>A</b> 1.28 (32.5)	<b>B</b> 1.67 (42.4)
	MPX32039	MPXK32039	Polysulfone	1.28 (32.5)	1.67 (42.4)

	<b>SEALING PLUG</b> MPX30003M	<b>O-RING</b> Silicone Seal USP Class VI	<b>MATERIAL</b> Polycarbonate	<b>A</b> 1.10 (27.9)	<b>B</b> 1.66 (42.2)
	MPX30039M	Silicone Seal USP Class VI	Polysulfone	1.10 (27.9)	1.66 (42.2)

**Note:**  
 MPX Series  
 mates with Back-to-  
 Back Adapters (page  
 109), SaniQuik™ and  
 Sanitary Series  
 (pages 112-115).

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