

# MPX<sup>®</sup> SERIES CONNECTOR

**MPX<sup>®</sup> 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.



## 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.

### 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

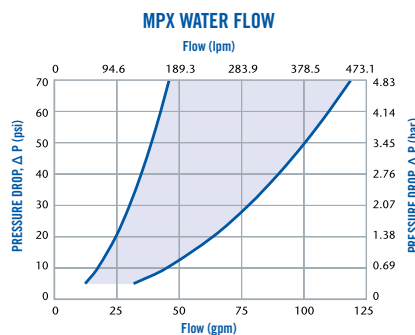
Easy to operate – even with gloved hands

Meet biocompatibility requirements

Reusable, yet economical enough to allow disposability

Eliminates potential leak path

Meet BSE/TSE requirements



*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.*

## NOTE



MPX Series also mates with Back to Back Adapters





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

# MPX® SERIES DIMENSIONS


## COUPLING BODIES - Polycarbonate

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
 IN-LINE HOSE BARB	1/2" ID	12.7mm ID	0.50"	MPX17803	1.28 (32.5)	1.96 (49.8)
 IN-LINE HOSE BARB WITH LOCK	1/2" ID	12.7mm ID	0.50"	MPXK17803	1.28 (32.5)	1.96 (49.8)


## COUPLING BODIES - Polysulfone

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
 IN-LINE HOSE BARB	1/2" ID	12.7mm ID	0.50"	MPX17839	1.28 (32.5)	1.96 (49.8)
 IN-LINE HOSE BARB WITH LOCK	1/2" ID	12.7mm ID	0.50"	MPXK17839	1.28 (32.5)	1.96 (49.8)

## COUPLING INSERTS - Polycarbonate

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
 IN-LINE HOSE BARB	3/8" ID	9.5mm ID	0.38"	MPX22603M	Silicone Seal USP Class VI	0.85 (21.6)	1.9 (48.3)
	1/2" ID	12.7mm ID	0.50"	MPX22803M	Silicone Seal USP Class VI	0.85 (21.6)	1.9 (48.3)

## COUPLING INSERTS - Polysulfone

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
 IN-LINE HOSE BARB	3/8" ID	9.5mm ID	0.38"	MPX22639M	Silicone Seal USP Class VI	0.85 (21.6)	1.9 (48.3)
	1/2" ID	12.7mm ID	0.50"	MPX22839M	Silicone Seal USP Class VI	0.85 (21.6)	1.9 (48.3)

## MATING PARTS



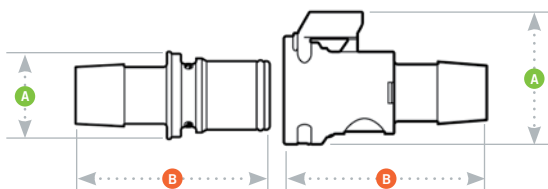
SEALING CAP	W/LOCK	MATERIAL	A	B
MPX32003	MPXK32003	Polycarbonate	1.28 (32.5)	1.67 (42.4)
MPX32039	MPXK32039	Polysulfone	1.28 (32.5)	1.67 (42.4)

SEALING PLUG	O-RING	MATERIAL	A	B
MPX30003M	Silicone Seal USP Class VI	Polycarbonate	1.1 (27.9)	1.66 (42.2)
MPX30039M	Silicone Seal USP Class VI	Polysulfone	1.1 (27.9)	1.66 (42.2)

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

## PRODUCT DIMENSIONS



A = HEIGHT/DIAMETER  
B = TOTAL LENGTH