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	BENEFITS
Ergonomic thumb latch	Easy to operate – even with gloved hands
USP Class VI materials	Meet biocompatibility requirements
Sterilizable by autoclave, EtO, e-beam, or gamma	Reusable, yet economical enough to allow disposability
Parting line-free hose barb	Eliminates potential leak path
ADCF-free materials	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:
PVDF (white), USP Class VI, ADCF

Thumb Latches:
Polycarbonate (white), USP Class VI, ADCF
PVDF (white), USP Class VI, ADCF

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

STERILIZATION:

Gamma: Up to 50 kGy irradiation

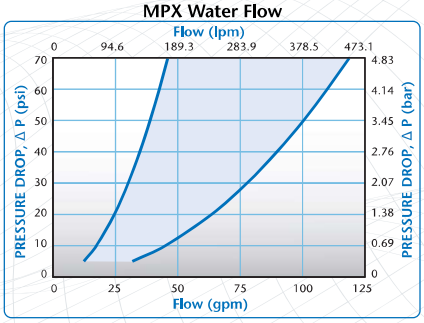
Autoclave:
Polycarbonate: Up to 250°F (121°C), 30 minutes, up to 10 repetitions. Sterilize uncoupled only.

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

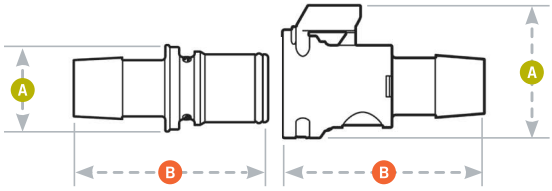
TUBING SIZES: 3/8" to 1/2" ID (9.5mm to 12.7mm)

***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



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

• POLYSULFONE



TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
IN-LINE HOSE BARB	1/2" ID	12.7mm ID	.50"	MPX17839	1.28 (32.5)	1.96 (49.8)
IN-LINE HOSE BARB WITH LOCK	1/2" ID	12.7mm ID	.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	.38"	MPX22603M	Silicone Seal USP Class VI	.85 (21.6)	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



TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
IN-LINE HOSE BARB	3/8" ID	9.5mm ID	.38"	MPX22639M	Silicone Seal USP Class VI	.85 (21.6)	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



SEALING CAP	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	1.10 (27.9)	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 9), Sanitary Series and SaniQuik™ (pages 12-15).

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