



Patent Pending

Actual size

**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
- BSE/TSE 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 ADCF requirements

**MPX SERIES**

**MPX Specifications**

**Pressure:** Vacuum to 60 psi, 4.14 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:**

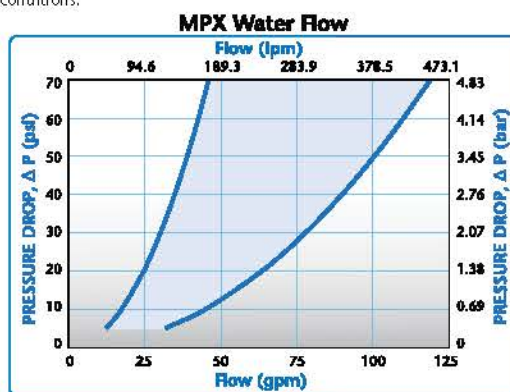
Polycarbonate: Up to 250°F (121°C), 30 minutes, up to 10 repetitions. Sterilize uncoupled only.

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

**Tubing Sizes:**

3/8" and 1/2" ID, 9.5mm and 12.7mm ID

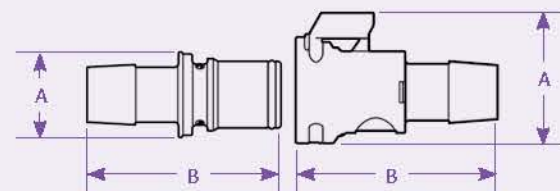
**WARNING:** Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of Colder's products in their own application conditions.



This graph is intended to give you a general idea of the performance capabilities of each product line. The shaded area of each 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 mates with SaniQuik™, Back-To-Back Body Adapters, and Sanitary Series. (pages 80-92)*

**Product Dimensions**



A = Height/Diameter  
B = Total Length

**Coupling Bodies**

**POLYCARBONATE**

TERMINATION	TUBING SIZE	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
IN-LINE HOSE BARB	1/2" ID	12.7mm ID	.500"	MPX17803	1.28 (32.5)	1.96 (49.8)
IN-LINE HOSE BARB WITH LOCK	1/2" ID	12.7mm ID	.500"	MPXK17803	1.28 (32.5)	1.96 (49.8)

**POLYSULFONE**

TERMINATION	TUBING SIZE	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
IN-LINE HOSE BARB	1/2" ID	12.7mm ID	.500"	MPX17839	1.28 (32.5)	1.96 (49.8)
IN-LINE HOSE BARB WITH LOCK	1/2" ID	12.7mm ID	.500"	MPXK17839	1.28 (32.5)	1.96 (49.8)

**Coupling Inserts**

**POLYCARBONATE**

TERMINATION	TUBING SIZE	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
IN-LINE HOSE BARB	3/8" ID	9.5mm ID	.375"	MPX22603M	Silicone Seal USP Class VI	.85 (21.6)	1.90 (48.3)
IN-LINE HOSE BARB	1/2" ID	12.7mm ID	.500"	MPX22803M	Silicone Seal USP Class VI	.85 (21.6)	1.90 (48.3)

**POLYSULFONE**

TERMINATION	TUBING SIZE	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
IN-LINE HOSE BARB	3/8" ID	9.5mm ID	.375"	MPX22639M	Silicone Seal USP Class VI	.85 (21.6)	1.90 (48.3)
IN-LINE HOSE BARB	1/2" ID	12.7mm ID	.500"	MPX22839M	Silicone Seal USP Class VI	.85 (21.6)	1.90 (48.3)

**Mating Parts**

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

**Mating Parts**

SEALING PLUG	O-RING	A	B
MPX3003M	Silicone Seal USP Class VI	1.10 (27.9)	1.66 (42.2)
MPX30039M	Silicone Seal USP Class VI	1.10 (27.9)	1.66 (42.2)

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