MPX Specifications

**Pressure:** Vacuum to 60 psi, 414 bar

**Temperature:**
- Polysulfone: -40°F to 300°F (-40°C to 149°C)
- Polycarbonate: -40°F to 250°F (-40°C to 121°C)

**Materials:**
- Main components:
  - Polysulfone (amber tint), USP Class VI; Polycarbonate (purple tint), USP Class VI
- Locking sleeves: Polysulfone (white)
- O-rings: Silicone (clear), platinum-cured, USP Class VI

**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 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.

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**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, E0, e-beam, or gamma
- Parting line-free hose barb

**Benefits**
- Easy to operate – even with gloved hands
- Meets biocompatibility requirements
- Reusable, yet economical enough to allow disposability
- Eliminates potential leak path

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**MPX Water Flow**

These graphs are 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.

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Note: MPC Series mates with Sanifluit™ and Sanitary Series
(See pages 8-9)
### Product Dimensions

#### Coupling Bodies

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</thead>
<tbody>
<tr>
<td>In-Line Hose Barb</td>
<td>1/2&quot; ID</td>
<td>12.7mm</td>
<td>.500&quot;</td>
<td>MPX17803</td>
<td></td>
<td></td>
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<tr>
<td>In-Line Hose Barb with Lock</td>
<td>1/2&quot; ID</td>
<td>12.7mm</td>
<td>.500&quot;</td>
<td>MPX17803</td>
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#### Coupling Inserts

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<thead>
<tr>
<th>Termination</th>
<th>Tubing Size</th>
<th>Metric Eq.</th>
<th>Flow</th>
<th>Straight Thru</th>
<th>O-Ring</th>
<th>A</th>
<th>B</th>
<th>Polycarbonate</th>
<th>Polysulfone</th>
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</thead>
<tbody>
<tr>
<td>In-Line Hose Barb</td>
<td>3/8&quot; ID</td>
<td>9.5mm</td>
<td>.375&quot;</td>
<td>MPX22603M</td>
<td>Silicone Seal USP Class VI</td>
<td>1.28</td>
<td>1.67</td>
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### Accessories

<table>
<thead>
<tr>
<th>Sealing Cap</th>
<th>Sealing Cap with Lock</th>
<th>A</th>
<th>B</th>
<th>Polycarbonate</th>
<th>Polysulfone</th>
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</thead>
<tbody>
<tr>
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<td>MPXK32003</td>
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<td>1.67</td>
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<tr>
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<td>MPXK32039</td>
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### Accessories

| Sealing Plug               | O-Ring                | A   | B   | Polycarbonate            | Polysulfone            |
|----------------------------|                       |-----|-----|--------------------------|------------------------|
| MPX30003M                  | Silicone Seal USP Class VI | 1.10| 1.66|                          |                        |
| MPX30039M                  | Silicone Seal USP Class VI | 1.10| 1.66|                          |                        |

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