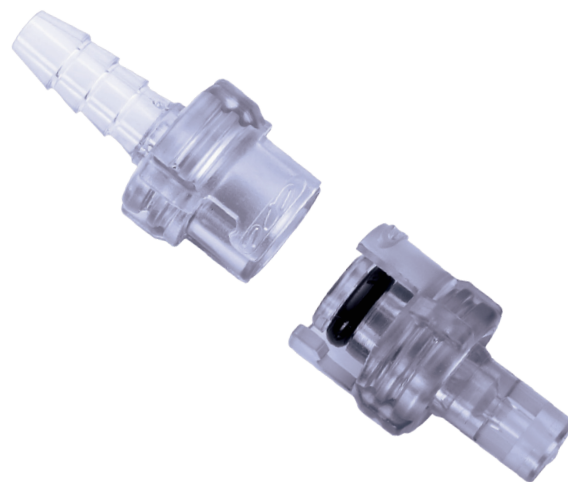


SMC SERIES CONNECTOR

The SMC is a twist-to-connect coupling that provides a reliable and more secure alternative to luer-type connections. It also allows for the tubing to rotate freely when connected. This important feature prevents both kinked tubing and accidental disconnection during use.



SPECIFICATIONS

PRESSURE:

Vacuum to 100 psi, 6.9 bar

TEMPERATURE:

-40°F to 250°F (-40°C to 121°C)

MATERIALS:

Main components: Polycarbonate, USP Class VI, ADCF

Locking sleeves: Polycarbonate, USP Class VI, ADCF

O-rings: Buna-N

COLOR:

Main components: Purple tint

STERILIZATION:

Gamma: Up to 50 kGy irradiation

TUBING SIZES:

1/16" to 1/8" ID, 1.6mm to 3.2mm ID

FEATURES

Twist to connect



BENEFITS

Prevents accidental disconnects

Free coupling rotation

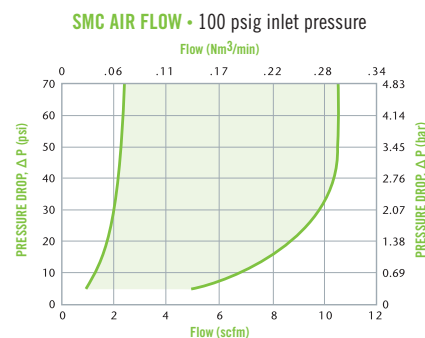
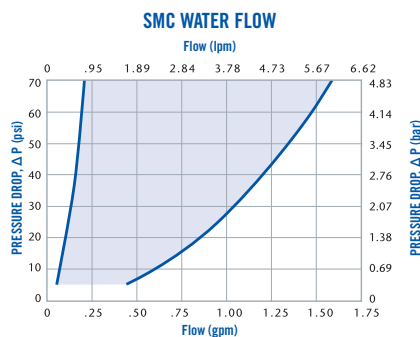


Eliminates kinked tubing

Safer; prevents misconnections



Does not mate to luers



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.



cpcworldwide.com/SMC



COLDER PRODUCTS COMPANY
U.S.A.
PHONE: +1 (651) 645-0091
FAX: +1 (651) 645-5404
TOLL FREE: +1 (800) 444-2474
E-MAIL: info@cpcworldwide.com

COLDER PRODUCTS COMPANY GMBH
Germany
E-MAIL: cpcgmbh@cpcworldwide.com

DOVER (SHANGHAI) INDUSTRIAL CO., LTD
ShangHai, China
PHONE: +86 21 2411 2666
TOLL FREE: +86 400 990 1978
E-MAIL: asiapacific@cpcworldwide.com

SMC SERIES DIMENSIONS

COUPLING BODIES - Polycarbonate



| TERMINATION | TUBING SIZE | METRIC EQ. | STRAIGHT THRU | A | B |
|-------------------|-------------|------------|---------------|-------------|-----------------------|
| IN-LINE HOSE BARB | 1/16" ID | 1.6mm ID | SMF0191 | 0.48 (12.2) | 0.75/0.90 (19.1/22.9) |
| | 1/8" ID | 3.2mm ID | SMF0291 | 0.48 (12.2) | 0.9 (22.9) |

COUPLING INSERTS - Polycarbonate



| TERMINATION | TUBING SIZE | METRIC EQ. | STRAIGHT THRU | A | B |
|-------------------|-------------|------------|---------------|-------------|-------------|
| IN-LINE HOSE BARB | 1/16" ID | 1.6mm ID | SMM0191 | 0.48 (12.2) | 0.75 (19.1) |
| | 1/8" ID | 3.2mm ID | SMM0291 | 0.48 (12.2) | 0.9 (22.9) |

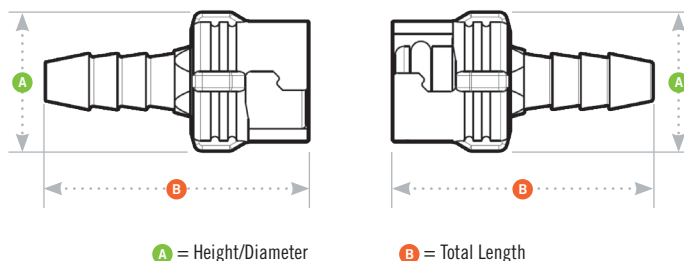
COUPLING SET - Polycarbonate



| TERMINATION | TUBING SIZE | METRIC EQ. | STRAIGHT THRU | A | B |
|-------------|-------------|------------|---------------|-------------|-------------|
| HOSE BARB | 1/16" ID | 1.6mm ID | SMC0191 | 0.48 (12.2) | 1.32 (33.5) |
| | 1/8" ID | 3.2mm ID | SMC0291 | 0.48 (12.2) | 1.61 (40.9) |

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc. †NOTE: CPC's Ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse.

PRODUCT DIMENSIONS



LIQUID FLOW RATE INFORMATION FOR COUPLINGS

The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula below.

C_v VALUES

| BODIES | INSERTS | |
|--------|---------|-------|
| | SMM01 | SMM02 |
| SMF01 | 0.03 | 0.03 |
| SMF02 | 0.03 | 0.19 |

$$Q = C_v \sqrt{\frac{\Delta P}{S}}$$

- Q = Flow rate in gallons per minute
- C_v = Average coefficient across various flow rates (see chart)
- ΔP = Pressure drop across coupling (psi)
- S = Specific gravity of liquid

WARRANTY: All sales are subject to Colder Products Company's limited express warranty set forth in the CPC catalog. Contact your local distributor or CPC Customer Service for warranty provisions.

Warning: Due to the wide variety of possible fluid media and operating conditions, unintended consequences may result from the use of this product, all of which are beyond the control of CPC. It is the user's responsibility to carefully determine and test for compatibility for use with their application. All such risks shall be assumed by the buyer.

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