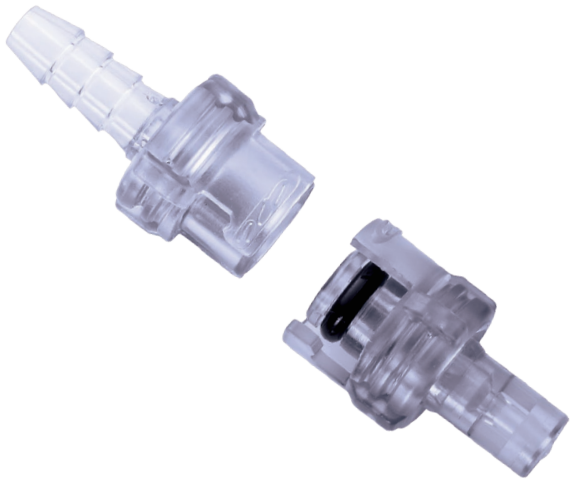
SMC
SERIES CONNECTOR



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

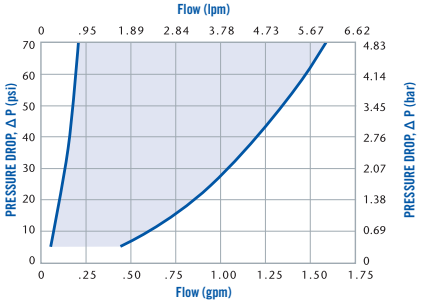
TUBING SIZES:
1/16" to 1/8" ID, 1.6mm to 3.2mm ID

SCAN

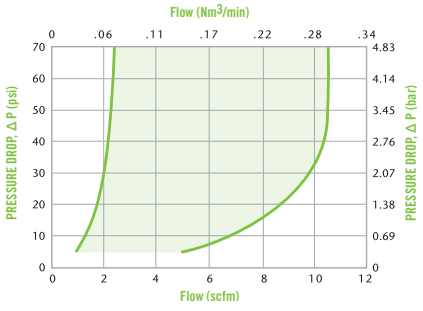
cpcworldwide.com/SMC

FEATURES		BENEFITS
Twist to connect	→	Prevents accidental disconnects
Free coupling rotation	→	Eliminates kinked tubing
Safer; prevents misconnections	→	Does not mate to luers

SMC WATER FLOW



SMC AIR FLOW • 100 psig inlet pressure



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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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

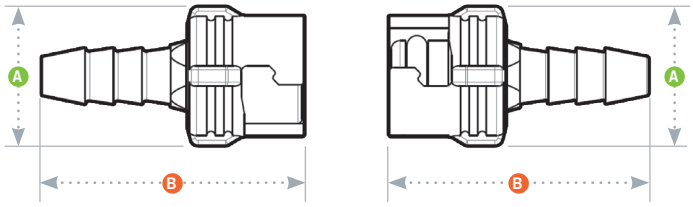
TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	A	B
IN-LINE HOSE BARB	1/16" ID	1.6mm ID	SMM0191	0.48 (12.2)	0.75 (19.1)
	1/8" ID	3.2mm ID	SMM0291	0.48 (12.2)	0.9 (22.9)

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



A = Height/Diameter B = Total Length

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	INSERTS 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