



SMC SERIES

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.

Features

- Twist to connect
- Free coupling rotation
- Safer; prevents misconnections

Benefits

- Prevents accidental disconnects
- Eliminates kinked tubing
- Does not mate to luers

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, USP Class V, ADCF

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

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 products in their own application conditions.

Liquid Flow Rates

Liquid Flow Rate Information for Couplings

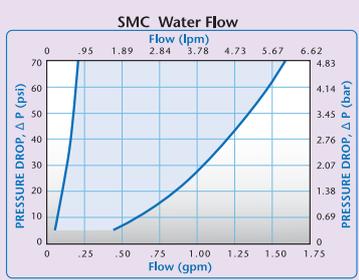
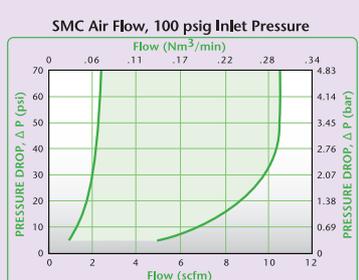
The chart below shows the flow rate for Colder couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula to the right.

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

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

C_v Values for Subminiature Couplings

BODIES	SMM01	SMM02
SMF01	.03	.03
SMF02	.03	.19



These graphs are 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.

Coupling Body



POLYCARBONATE

Product Dimensions
(See drawing on page 14)

TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	A	B
IN-LINE HOSE BARB	1/16" ID	1.6mm ID	SMF0191	.48	.75/.90
	1/8" ID	3.2mm ID	SMF0291	.48	.90

Coupling Insert



POLYCARBONATE

TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	A	B
IN-LINE HOSE BARB	1/16" ID	1.6mm ID	SMM0191	.48	.75
	1/8" ID	3.2mm ID	SMM0291	.48	.90

Coupling Set



POLYCARBONATE

TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	A	B
HOSE BARB	1/16" ID	1.6mm ID	SMC0191	.48	1.32
	1/8" ID	3.2mm ID	SMC0291	.48	1.61