

PORTER
INSTRUMENT COMPANY, INC.

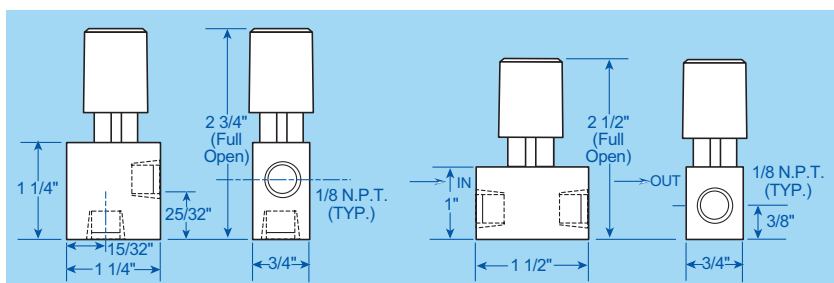
PORTER Flow Control Valves - SCV/SC

Specifications

Porter Metering Valves are designed for extremely precise control in low flow gas and liquid applications. They are available as valve cartridges, integrally mounted in flowmeters and in-line valve assemblies with straight or angle patterned bodies. All in-line valves assemblies have 1/8" female NPT inlet and outlet ports.

Standard Cartridge Valves

Porter's Standard Cartridge Valves (SCV) are economical, multi-purpose valve assemblies. Available in 3 needle tapers, they are ideal for a wide spectrum of low flow applications.



SCV - straight connection

SCV - angle connection

Capacities for Standard Cartridge Valves

Needle Size (SCV)	1	2	3
Max. Flow			
cc/min. - Helium	25000	35000	55000
cc/min. - Water	700	1000	1200

Note: Capacities are typically measured with water or helium at 10 psig supply pressure and atmospheric pressure downstream. Capacities vary for different fluids and operating conditions.

Ratings: Maximum Operating

	Temperature °F	Pressure PSIG
Brass Model	160	250
Stainless Steel Model	250	250

Connections: 1/8" Female NPT (integral)

Materials of Construction

Model	Body	Valve Pin	Valve Pin Holder	O-Rings	Orifice
SCV Brass	Nickel Plated Brass	316 SS	316 SS	Buna N	Brass
SCV Stainless Steel	316 SS	316 SS	316 SS	Viton	316 SS

Fluorosint® - DSM Engineering Plastic Products

Torque Guard

Porter Standard Cartridge Valves are available with the exclusive *Torque Guard* Stop Mechanism. *Torque Guard* eliminates stem damage caused by over tightening of the valve at shut-off.

The *Torque Guard* System consists of a specially designed knob with a stop pin pressed into an aluminum knob insert and a machined detail on the packing nut that engages the stop pin and prevents clockwise rotation beyond a predetermined point. During final test, the knob is adjusted so that the stop pin and packing nut engage precisely at shut-off. This combination eliminates the possibility of over tightening and the resultant stem damage.



Ordering Information

Model Number and Description

Example:
Control Valve SCV B 1 S

Basic Model

SCV (Standard Cartridge)

Body Material

B - Brass

S - Stainless Steel

Needle Size

0 thru 3

1 - TG (Torque Guard Taper 1)

2 - TG (Torque Guard Taper 2)

Connection Configuration

A - Angle

S - Straight

Valve Cartridge Only

Example: SC 3 B

Valve Configuration

SC (Standard Cartridge)

Needle Size

0 thru 3

1 - TG (Torque Guard Taper 1)

2 - TG (Torque Guard Taper 2)

Material

A - Aluminum

B - Brass

S - Stainless Steel

To order, specify:

- Model Number
- Fluid
- Flow Rate
- Operating Pressure (inlet and outlet)
- Operating Temperature
- Materials of Construction

PORTER
INSTRUMENT COMPANY, INC.

UPDATED 8/19/05