

# PORTER Flow Control Valves - HRCV/HR

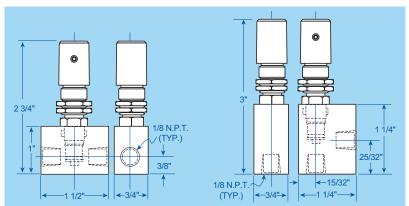
# Specifications

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.

# **High Resolution Control Valves**

The HR Series High Resolution Control Valves contain unique design features that make them the ultimate choice for precise low flow control.

- Spring loaded, non rising adjustment stem with 56-pitch thread provides smooth, non-reversing flow characteristics and 15-turn resolution.
- Non-rotating stainless steel valve pin with precision ground flat gives exact control.
- Valve pin o-ring guarantees positive shut-off without stem damage.
- $\hbox{\bf \cdot} \ {\sf Self-lubricating} \ {\sf orifice} \ {\sf liner} \ {\sf assures} \ {\sf long} \ {\sf life}.$
- Seven available needle tapers expand valve capacity.



HRCV - straight connection

HRCV - angle connection

## **Capacities for High Resolution Control Valves**

- 1	Needle Size (HRCV)								
	Max.	cc/min. – Helium	95	220	450	1250	3600	12500	50000
	Flow	cc/min. – Water	2	6	15	30	100	200	900

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	Proceuro DSIG	ĺ
	Temperature i	riessule roid	ĺ,
Brass Model	160	250	
Stainless Steel Model	250	250	

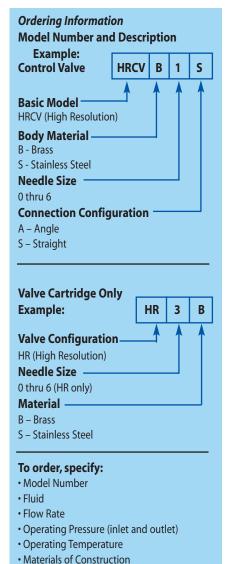
### Connections: 1/8" Female NPT (integral)

#### **Materials of Construction**

Model	Body	Valve Pin	Valve Pin Holder	O-Rings	Orifice
HRCV Brass	Nickel Plated Brass	316 SS	Brass	Buna N	Brass w/ Fluorosint® liner
HRCV Stainless Steel	316 SS	316 SS	316 SS	Viton	316 SS w/ Fluorosint® liner

Fluorosint® - DSM Engineering Plastic Products







UPDATED 8/19/05