



**SF5000C**

### GENERAL DESIGN FEATURES

- ▶ 316 SS Construction
- ▶ Pressure independent flow regulation
- ▶ Fixed orifice 10:1 turndown for low flow applications
- ▶ Ceramic valve trim for extended life and reduced maintenance.

### PRESSURE BALANCED PISTON

- ▶ Pressure Independence – Upstream and downstream pressure fluctuations create a net force on the patented pressure balanced piston, which is countered by a spring force to maintain constant flow.
- ▶ Stable and Accurate Flow Delivery – Pressure balanced piston provides instantaneous means of control at different injection points from a common line that is more tolerant to debris and fluid filming. No pneumatic or electric power sources required for control.
- ▶ Debris Management – Accumulated debris result in a net force on the piston that instantaneously lifts the pin slightly from the seat, passing debris through the outlet. This net force is countered by the spring force that returns the piston to its balanced flow rate position.

### SKOFLO BENEFITS

- ▶ 30-year experience, industry expert and solution provider
- ▶ Pressure Independent Valve Technology (PIVT)
- ▶ Significant chemical **OPEX** cost savings



**DESIGN RATINGS**

Turndown Ratio	10:1		
Flow Delivery	Maintains set flow rate despite debris and upstream or downstream pressure fluctuations.		
Minimum Differential Pressure	300 psi (21 bar) required to regulate flow independent of pressure.		
Design Standards			
Design Life	25 years		
Working Pressure Rating	5,000 psig (345 barg)		
Proof Test Pressure	7,500 psig (517 barg)		
Operating Temperature Rating	<b>FFKM</b>	<b>FKM</b>	<b>EPDM</b>
	-20°F to 160°F (-29°C to 70°C)	-50°F to 160°F (-45°C to 70°C)	-50°F to 160°F (-45°C to 70°C)
Storage Temperature Rating	-50°F to 160°F (-45°C to 70°C)		
Viscosity	0.5 – 100 cP		
Debris Tolerance	SAE AS4059 Class 12B-F		
Installation Orientation	Horizontal or Vertical		
Envelope Dimensions	8in. x Ø4in. (230mm x Ø127 mm)		
Weight	9 lb. (4.1 Kg)		
Process Connections	¼" NPT Female		

**MATERIALS – CHEMICALLY WETTED**

Valve Body	316 SS
Metallic Components	316/316L SS
Non-metallic Components	PTFE, FFKM, FKM, EPDM, Alumina, Zirconia
Valve Trim	Ceramic