



SF10000NMFE & SF15000NMFE

GENERAL DESIGN FEATURES

- ▶ Designed for high flow applications (MEG, Methanol)
- ▶ Maximum Allowable Working Pressure (MAWP) of 10,000 and 15,000 psi
- ▶ Flow rates up to 12 GPM with max 48:1 turndown ratio
- ▶ Compatible sealing with all chemicals.
- ▶ Designed to accommodate mounting of an actuator
- ▶ Flow Delivery Accuracy – Maintains set flow rate despite debris and upstream or downstream pressure fluctuations.

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



Product Specification,
Surface, High Flow 10,000 and 15,000 NMFE

DESIGN RATINGS

Flow Range	0.1 to 2 GPM (22.7 to 454 LPH)	0.25 to 12 GPM (56 to 2725 LPH)
Minimum Differential Pressure ¹	500 psi (35 bar) required to regulate flow independent of pressure. (50% MEG in water at room temperature)	
Design Standards	NACE MRO175 Material Selection	
Design Life	25 years	
Working Pressure Rating	10,000 psig (690 barg)	15,000 psig (1034 barg)
Proof Test Pressure	15,000 psig (1034 barg)	22,500 psig (1551 barg)
Operating Temperature Rating	FFKM	EPDM
	-20°F to 160°F (-29°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	12.8 in. x Ø7 in. (325 mm x Ø178 mm)	
Weight	32 lb (14.5 kg)	
Process Connections ²	¾" AEMP Female	

MATERIALS – CHEMICALLY WETTED

Valve Body	Nitronic 50HS
Metallic Components	Nitronis 50HS, 316/316L SS, Inconel x750
Non-metallic components	PEEK, PTFE, FFKM, EPDM, Carbide, Ceramic
High Drop Valve Trim	Carbide

1 For fluid viscosities 50-100cP, consult factory for minimum required pressure drop.

2 For optional process connections consult factory.