



SF10000NHFA & SF15000NHFA

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 40 GPM with max 40:1 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 results 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 NHFA

DESIGN RATINGS

Flow Range ¹	0.5 to 14 GPM (113 to 3180 LPH)	0.75 to 30 GPM (170 to 6814 LPH)
Minimum Differential Pressure ^{2,3}	200 psi (14 bar) required to regulate flow independent of pressure.	300 psi (21 bar) required to regulate flow independent of pressure.
Design Standards	NACE MRO175 Material Selection	
Design Life	25 years	
Working Pressure Rating	10,000 psig or 15,000 psig (689 barg or 1034 barg)	
Proof Test Pressure	15,000 psig or 22,500 psig (1034 barg or 1551 barg)	
Operating Temperature Rating	5°F to 150°F (-15°C to 65°C)	
Storage Temperature Rating	-50°F to 185°F (-45°C to 85°C)	
Debris Tolerance	SAE AS4059 Class 12B-F	
Installation Orientation	Horizontal or Vertical	
Envelope Dimensions	16.0 in. x Ø7.5 in. (405 mm x Ø190 mm)	
Weight	72 lb (32.6 kg)	
Process Connections ⁴	¾" AE MP Female, ¾" or 1" FKO Tube Stub	

MATERIALS – CHEMICALLY WETTED

Valve Body	Super Duplex 2507
Metallic Components	Super Duplex 2507, Nitronic 50HS, 316/316L SS, Inconel 718, Elgiloy, Hastelloy C276
Non-metallic components	PEEK, PTFE, FFKM, EPDM, Carbide
High Drop Valve Trim	Carbide

- 1 For flows above 30 GPM, consult factory
- 2 For fluid viscosities 50-100cP, consult factory for minimum required pressure drop.
- 3 50% MEG in water at room temperature
- 4 For optional process connections consult factory.