



**BPR5000MFA**

#### **GENERAL DESIGN FEATURES**

- ▶ Back Pressure Regulator (BPR) maintains constant set pressure in pump discharge lines feeding the chemical injection system while recycling unused fluid to the chemical holding tank.
- ▶ Provide constant and stable pressure to the system over a wide range of flow with continuous spill-off to the chemical tank.
- ▶ Multi-Stage design for high flow applications such as MEG and Methanol.
- ▶ Robust Multi-Stage BPR is designed to handle the full pressure drop throughout the entire rated flow range
- ▶ Reliable and accurate pressure regulation for the life of the system
- ▶ Aggressive fluids such as Methanol at medium and high flow rates require a multi stage Back Pressure Regulator to ensure reliable pressure regulation throughout the entire flow range for the life of the chemical injection system

#### **SKOFLO BENEFITS**

- ▶ 30-year experience, industry expert and solution provider
- ▶ Robust and reliable field proven designs that require minimal maintenance
- ▶ All SkoFlo BPRs are designed to handle the FULL pressure drop throughout the entire rated flow range under continuous operation with minimal wear to the internal components.



Product Specification,  
Surface, Medium Flow BPR5000MFA

**DESIGN RATINGS**

Working Pressure	5,000 psi (345 bar)	
Proof Pressure	7,500 psi (517 bar)	
Flow Rate	0.5 to 15 GPM (1.9 to 57 LPM)	
Design Life	25 years	
Operating Temperature Rating	<b>FFKM</b>	<b>EPDM</b>
	-20°F to 185°F (-29°C to 85°C)	-50°F to 185°F (-45°C to 85°C)
Storage Temperature	-50°F to 185°F (-45°C to 85°C)	
Viscosity	0.5 – 100 cP	
Debris Tolerance	SAE AS4059 Class 12B-F	
Installation Orientation	Horizontal or Vertical	
Envelope Dimensions	12in. x 22in. x 5in.	
Weight	110 lb (49.9 Kg)	
Process Connections <sup>1</sup>	¾" AEMP	

**MATERIALS – CHEMICALLY WETTED**

Valve Body	Nitronic 60
Metallic Components	Nitronic 60, Nitronic 50, 316 SS, Carbide, 17-7SS
Non-metallic Components	PEEK, PTFE, FFKM, EPDM, Alumina, Zirconia
Valve Trim	Ceramic

<sup>1</sup> for additional process connections consult factory