



Masoneilan* 10000 Series Double Ported Globe Valves

The 10000 Series double seated control valves from GE Oil & Gas are semi-balanced designs, providing high allowable pressure drops, reduced actuator thrust requirements, and large flow areas to effectively handle dirty fluid applications. Standard features include:

Enhanced Performance and Reliability

Separate top and bottom guides in the Masoneilan 10000 Series provide heavy duty plug and stem support throughout the valve stroke range. This results in excellent throttling control characteristics and high product reliability.

High Pressure Drop Capability

GE's 10000 Series offers a semi-balanced trim construction, which allows for application in higher pressure drop applications using standard actuation. This also helps to reduce product complexity and overall assembly size and weight.

Dirty Service Design

Large flow areas within the 10000 Series design, makes it an excellent choice for applications involving dirty fluids. Foreign particles can pass through the valve without negatively affecting control performance.

Easy Field Maintenance

The 10000 Series is designed for top and bottom entry, allowing for quick access to the key trim and soft good components. This also permits easy access to the top and bottom guides for repair or replacement.

Reduced Emissions

The 10000 Series can be supplied with the Masoneilan LE Packing design to provide low emissions performance meeting various environmental regulations worldwide.

NACE Compliance

Construction for Sour Service Applications in accordance with NACE standard MR 0103 is readily available. Applications requiring compliance to MR 0175, 2003 Rev or ISO 15156 can also be provided.



Specifications

Flow Direction

All trim: flow through both ports

Body

Type: double seat globe

Body Bonnet and Lower Flange:

Type: bolted

Bonnet and Lower Flange:

Materials: carbon steel
stainless steel
chrome-molybdenum steel

Trim

Plug type: double seat
v-port or contoured

Seat ring: threaded

Guide: heavy top and bottom guiding

Capacity: full area
reduced capacity (0.4 factor)

Cv ratio: 50:1

Flow characteristics: equal percentage
quick opening
linear

Actuator

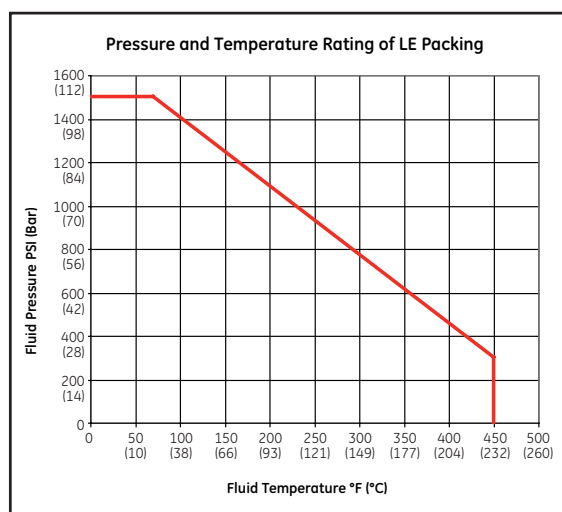
Type: spring diaphragm

Handwheel: optional

Valve Size ⁽¹⁾		Body Rating	Body & Bonnet Material	Temperature Range				Seat Leakage IEC 60534-4 and ANSI/FCI 70.2 Class
inch	mm			Standard Bonnet		Extension Bonnet		
				min.	max.	min.	max.	
0.75 to 16	20 to 400	ASME class 150 to 600 (PN 20 to 100)	Carbon Steel	-20°F (-29°C)	+450°F ⁽¹⁾ (-232°C)	-20°F (-29°C)	+800°F (+427°C)	II
			Stainless Steel	-20°F (-29°C)	+450°F ⁽¹⁾ (-232°C)	-148°F (-100°C)	+800°F (+427°C)	
			Chrome-Moly	32°F (0°C)	+450°F ⁽¹⁾ (-232°C)	32°F (0°C)	+800°F (+427°C)	
			NACE	-20°F (-29°C)	+450°F ⁽¹⁾ (-232°C)			

1) Maximum temperature shown is with PTFE packing and LE Packing. Extended max. operating temperature of 800°F (427°C) allowable with Graphite packing.

2) LE Packing for low emissions applications is limited to maximum pressure and temperature as shown in chart below.



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