Masoneilan

a Baker Hughes business

Masoneilan[™] 10000 Series Double Ported Globe Valves

The 10000 Series double seated control valves are semibalanced 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

The 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 Low-E 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.

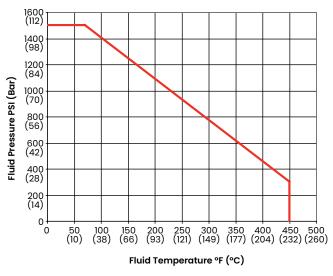
Specifications

Flow Direction							
All trim:	Flow through both ports						
Body							
Туре:	Double seat globe						
Body Bonnet and Lower Flange							
Туре:	Bolted						
Bonnet and Lower Flange							
Materials:	Carbon steel						
	Stainless steel						
	Chrome-molybdenum steel						

Trim			
Plug type:	Double seat		
	v-port contoured		
Seat ring:	Threaded		
Guide:	Heavy top and bottom guiding		
Capacity:	Full area		
	Reduced capacity (0.4 factor)		
C _v ratio:	50:1		
Flow characteristics:	Equal percentage		
	Quick opening		
	Linear		
Actuator			
Туре:	Spring diaphragm		
Handwheel	Optional		

Marka	- 0:1	e t1		Dedu S		Temperature Range			Seat Leakage IEC 60534-4 and ASME/FCI 70.2 Class
Valve Size ¹		Body Rating B	Body & Bonnet	Standard Bonnet		Extension Bonnet			
inch	mm		Material	min.	max.	min.	max.		
		400 ASME class 150 to 600 (PN 20 to 100) (PN 20 to 100) NACE		–20°F (–29°C)	+450°F¹ (-232°C)	–20°F (–29°C)	+800°F (+427°C)	Π	
0.75 to 16 20 to				−20°F (-29°C)	+450°F¹ (-232°C)	-148°F (-100°C)	+800°F (+427°C)		
				32°F (0°C)	+450°F¹ (-232°C)	32°F (0°C)	+800°F (+427°C)		
			NACE	-20°F (-29°C)	+450°F1 (-232°C)				

1. Maximum temperature shown is with PTFE packing and Low-E Packing. Extended max. operating temperature of 800°F (427°C) allowable with Graphite packing. 2. Low-E Packing for low emissions applications is limited to maximum pressure and temperature as shown in chart below.



Pressure and Temperature Rating of Low-E Packing



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