

PXR™ Control Valve

Performance X Reliability

Single Seated Globe Valve

Performance meets Reliability with the **Masoneilan™ PXR control valve**, engineered for regular industrial applications, high interchangeability, simplified selection and maintenance.

Design features include superior flow control enabled by advanced investment casting techniques that reduce material usage and waste, while enabling greater C_v per size through optimized body and plug profiles.

The PXR control valve delivers versatility in interchangeable trims, making the PXR control valve well-suited to handle a wide variety of regular process applications.

The stem and port guided unbalanced trim provides strong plug support for stable and controllable operation.

Hardened full, reduced and low area capacity trims are available to provide a range of wide flow capabilities.

The seat construction uses a threaded seat ring with an unbalanced plug design, eliminating the need for balance seals or pilot plugs to achieve shutoff. Tight shutoff meeting ANSI/FCI 70-2 Class IV or V leakage is standard.



The PXR control valves can be sized and selected using the Masoneilan **ValvStream™** Sizing and Selection Program.

Various positioner options allow customers to select the right level of digitalization based on their budget and operational complexity.

General Data – PXR Control Valve

Range	
Size	0.5" up to 6", DN 15 up to DN 150
Pressure Class	ASME 150 or 300, PN 20 or PN 40
Flow Direction	
Contoured / V-Port	Flow-To-Open – FTO (standard)
Body	
Style	Globe
Face to Face Standard	ISA 75.08.01 or EN 558-1 (DIN 3202 F1). For JIS, please consult factory.
Bonnet	
Type	Bolted standard -29°C (-20°F) to 350°C [662°F]
Body and Bonnet	
Materials	ASTM A216 Grade WCC/WCB / EN 1.0619/1.0625
	ASTM A351 Grade CF8M / EN 1.4408
	ASTM A351 Grade CF3M / EN 1.4409
	ASTM A494 Grade CW-12MW (Hastelloy C276)
	ASTM A494 Alloy M-35-1 (Monel 400)
Trim	
Plug type	Linear
	Equal percent
Seat ring	Threaded
Seat Leakage	
Class	ANSI/FCI 70-2 Class IV or V
Packing	
Type	PTFE, Graphite, LE (Fugitive Emission). Bellows seal design option is available up to valve size 4".
Actuator	
Type	Spring diaphragm actuators Model 57/58 (Options: Actuator Model 87/88, Handwheel)
Positioner	
No diagnostics	Essential control features only
Standard diagnostics	Position feedback, no local interface
Advanced diagnostics	On-line, integrated diagnostics, predictive maintenance, and remote monitoring
Instrumentation Options	
Limit switches	Masoneilan 496 Series switches – configurable as electro-mechanical switches, proximity switches or position transmitter
Filter regulator	Masoneilan Model 78 air filter regulators
Solenoid operated valves	Per request/specification
Boosters	Masoneilan Model BR200 / BR400
Quick exhaust valves	Per request/specification
Transducer	Masoneilan Model 4411 electro-pneumatic transducer