

PXR™ Control Valve

Performance X Reliability

Stem and Port Guided Globe Valve

Performance meets Reliability with the **Masoneilan™ PXR control valve**, engineered for low-pressure drop control, high interchangeability, and 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 stem and port guided unbalanced trim delivers versatility in interchangeable trims, making the PXR control valve well-suited to handle a wide variety of low pressure drop process applications.

The stem and port guided plug provides maximum support to ensure plug stability and controllability.

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

The seat construction consists of a threaded seat ring with a plug that is unbalanced requiring no balance seals or pilot plugs to achieve shut-off.

Tight shutoff that meets 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**.

Namur or VDI/VDE Tiered digital 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	0.75" up to 6"
Pressure Class	ASME 150 or 300
Flow Direction	
Contoured	Flow-To-Open - FTO (standard)
Body	
Style	Globe
Bonnet	
Type	Bolted standard -29°C (-20°F) to 232°C (450°F)
Body and Bonnet	
Materials	WCC/WCB
	CF8M
	CF3M
Trim	
Plug type	Linear
	Equal percent
Seat ring	Threaded
Seat Leakage	
Class	ANSI/FCI 70-2 Class IV or V
Packing	
Type	PTFE
Actuator	
Type	Spring diaphragm
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