

BENCOR (Pty) Ltd.

Pressure valves



Proportional pressure limiting valves type PMV and PDV

These pressure limiting valves are electrically remote controlled and rule the hydraulic pressure within the system. This enables arbitrary control of the maximum pressure in the circuit thereby protecting it depending on the momentarily required condition.

These valves are either directly actuated (type PMV) or piloted (type PDV). There is a minimum pressure necessary of 3 bar up-stream to ensure flawless operation of the integrated prop. pressure reducing valve.



Nomenclature: Prop. pressure valve (direct or pilot operated)

Design: Individual valve for pipe connection
Individual valve, manifold mounting

Adjustability: Electro-proportional

P_{max}¹: 700 bar

Q_{max}²: 120 l/min

Basic types and general parameters

Basic type	PMV				PDV			Symbol	
	pressure limiting valve (direct operated)				pressure limiting valve (piloted)			pipe connection	manifold mounting valve
Function									
Size	4	5	6	8	3	4	5		
Flow Q _{max} (l/min)	16	16 ... 60	60 ... 75	120	40	80	120		
Pressure range:									
pressure p _{max} (bar)	41: 180 42: 290 43: 440 44: 700	41: 110 42: 180 43: 270 44: 450	41: 80 42: 130 43: 190 44: 320	41: 45 42: 70 43: 110 44: 180	N: 130 M: 200 H: 350	N: 130 M: 200 H: 350	N: 130 M: 200 H: 350		
Tapped ports ¹⁾	G 1/4 G 3/8	G 1/4 G 3/8	G 3/8 G 1/2	G 3/4 G 1	G 1/2	G 3/4	G 1		

¹⁾ version for pipe connection

Additional versions

- Version for separate control oil supply, enabling flawless pressure reduction starting from almost 0 bar (type PMVS or PMVPS) (see also "additional information")
- Additional 2/2-way solenoid valve for arbitrary idle circulation (only type PDV)

Solenoid voltage

- 12V or 24V DC
- Control via proportional amplifier (see also "Additional information")