# **Pressure valves**





## Miniature proportional pressure reducing valves type PM

These proportional pressure reducing valves are used for circuits, where other devices i.e. directional spool valves should be controlled with a low flow and varying pressure. The pressure on the secondary side (port A) can be adjusted, independently from the pressure on the primary side, according to an electrical signal. The reduced pressure at port A will change proportional to alternation of the electrical input signal. There is a design related permanent leakage flow apparent at R, which has to be led back to the tank via a depressurized line. These pressure reducing valves feature a override compensation i.e. acting like a pressure limiting valve, if the pressure on the secondary side exceeds the set pressure e.g. due to external forces.

#### Features and benefits:

- Compact design
- Numerous configurations

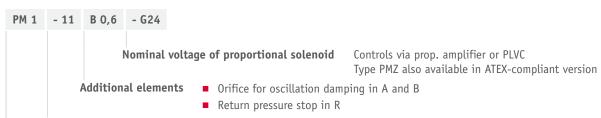
#### **Intended applications:**

■ For control oil supply in piloting circuits



Nomen- clature:	Prop. pressure reducing valve		
Design:	Assembly kit Individual valve Manifold mounting		
Adjustment:	Electro-proportional		
p <sub>max P</sub> : p <sub>max A</sub> :	40 bar 19 bar		
Q <sub>max</sub> :	approx 2 lpm		

## Design and order coding example



Prop. adjustable nominal pressure difference [bar]

Basic type

Type PM Type PMZ

- Assembly kit (type PM 1, PMZ 01, PMZ 11)
- For manifold mounting (type PM 11, PM 12)
- Version in valve bank (type PMZ) with up to 10 prop. pressure-reducing valve sections

#### **Function**

PM 1



PM 11

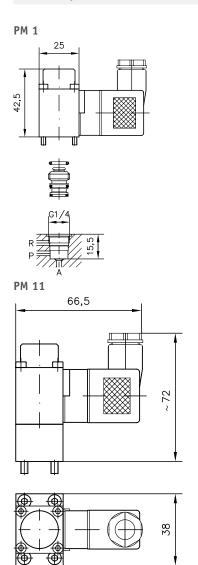


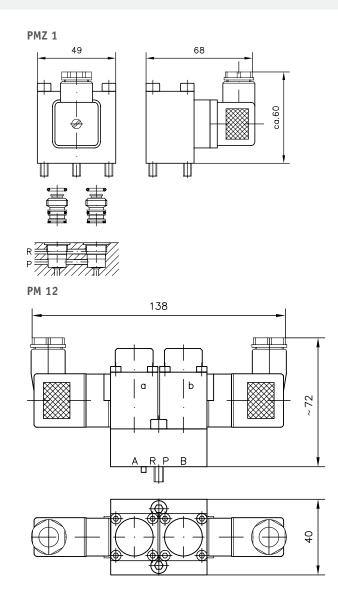
PMZ 1



PM







	Design		Pressure range (prop. adjustable nom. pressure difference $\Delta p = p_A - p_R$ ) [bar]
PM 1	Assembly kit	Individual valve	0 9
PMZ 1, PMZ 01		Twin valve	0 4.5 and 0 11.5
PM 11	Valve for manifold mounting	Individual valve	0 5.5 and 0 14
PM 12		Twin valve	0 7.5 and 0 19

## Associated technical data sheets:

■ Miniature prop. pressure reducing valves type PM, PMZ: <u>D 7625</u> ■ Type EV22K (card version): <u>D 7817/1</u>

## Similar products:

■ Prop. pressure reducing valves type PDM: <u>D 7486</u>, <u>D 7584/1</u>

## Prop. amplifier:

■ Type EV1M (module): <u>D 7831/1</u> ■ Type EV1G (module): <u>D 7837</u>

- Type EV1D (module): <u>D 7831 D</u>

## Additional electrical components:

■ Programmable logical valve control type PLVC: D 7845-41, D 7845 M