

3 Way Proportional pressure control valve G 1/4 or 1/4 NPT and manifold Nominal orifice 4

Closed-loop air piloted proportional pressure control valve

High flow

Excellent performance characteristics

Fast response time

Adjustable gain

Adjustable pressure range

Low power consumption

Feedback signal

Manifold mountable

Technical data

Medium: Compressed air filtered to 5 µm, dry and non-lubricated Operation: Air piloted spool valve with integrated electronic pressure control Output (nominal) pressure: 0 to 2 bar, 0 to 6 bar, 0 to 10 bar (or PSI equivalent) Supply pressure: Minimum 2 bar above maximum output required, 14 bar max. Supply sensitivity: Better than 0,75% span output change per bar supply pressure change Flow: Up to 1400 N I/min (see characteristic curves) Air consumption: < 5 N I/min Ambient temperature: 0°C to +50°C Contact our technical service for use below +2°C Temperature effect: Typically better than 0,03% of span/°C for span and zero over operating range Response time: < 80 ms (from 10 to 90% of output pressure into a 0,1 litre load) Degree of protection: IP65 in normal operation Linearity: < 1% Hysteresis: < 1% Vibration immunity: < 3% output shift for ± 3 g 10-150 Hz Weight: 0,63 kg

Materials:

Body: aluminium Lid and end cover: zinc diecast, nylon

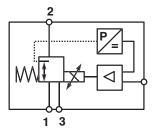


Electrical parameters see page 2

Ordering information See page 2

Alternative models

ISO 2 manifold version, with adaptor plate Vacuum version Low temperature version



Electrical parameters

E	ectromagnetic compatibility	CE marked: conforms to EC requirements EN 50081-2 (1994) and EN 50082-2 (1995)
E	ectrical input signal	4 to 20 mA or 0 to 10 V factory set
E	ectrical power input	24 V d.c. $\pm 25\%$ (power consumption < 1 W)
0	utput pressure feedback signal	0 10 V full range
C	onnections	M12x1, 5-pin

Options selector

VP50 * * * * * 11H00 **Control signal** Substitute Input signal Substitute 0 ... 2 bar/30 psi 02 0 ... 10 V 1 0 ... 6 bar/90 psi 06 4 ... 20 mA 4 0 ... 10 bar/150 psi 10 Substitute Ports size G 1/4 J Unit for pressure Substitute -NPT 1/4 Κ В Bar Manifold Х PSI Р

Other versions on request

Ordering example

Proportional pressure control valve, output 0-2 bar, port size G1/4, input signal 4 ... 20 mA Please note: An wireable straight connector (M12x1, 5-pin) is included Quote: VP5002BJ411H00

Connecting plugs

Straight connector M 12 x 1





Electrical connector pin looking into the end of the instrument



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Pin- No.	Function	
1	+24 V d.c. supply	
2	0 10 V feedback	
3	Contol signal (+VE)	
4	Common (supply signal and feedback return)	
5	Chassis	

Manifold mount assembly to ISO 2 sub base

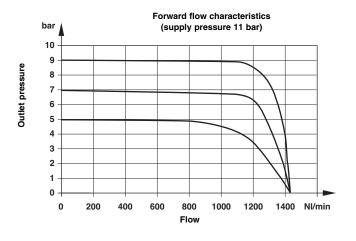
Single manifold

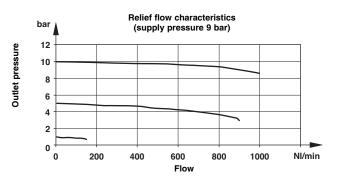


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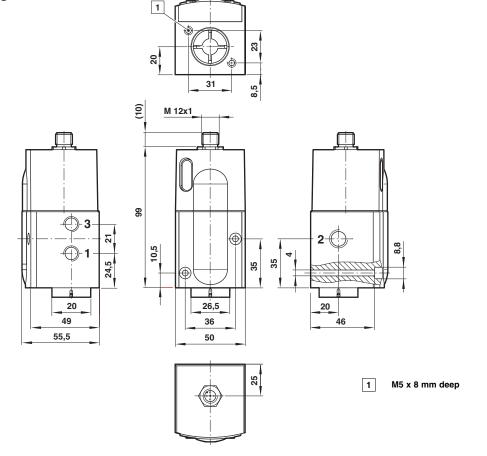
O-rings, flat seal and screws are included





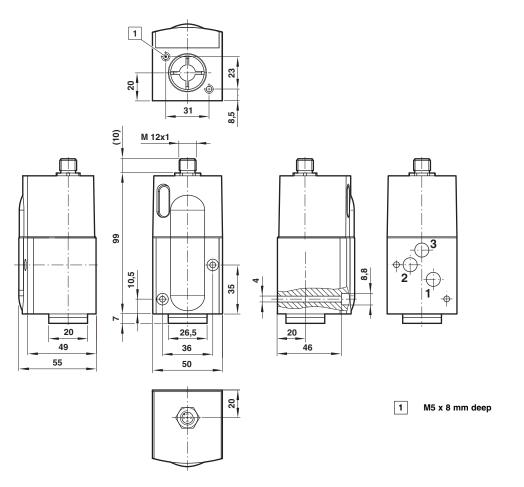


Basic dimensions

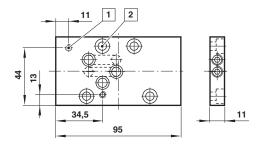




VP50 with manifold surface



Manifold mount assembly to ISO 2 sub base Included all seals and screws

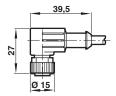


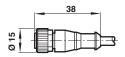


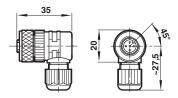
Four screws M6 x 16 mm deep to mount the manifold onto the ISO sub base Two screws M4 x 50 mm deep to mount the VP50 onto the manifold



Connector







Connector, 90° M12 x 1, 5-pin, female, A coded and 5 m cable length Model: 0250081 M12 x 1, 5 pin, female, A coded and

10 m cable length Model: 0250472

Connector, straight

M12 x 1, 5 pin, female, A coded and 5 m cable length Model: 0523822

Connector, 90° M12 x 1, 5 pin, female, A coded Model: 0252543



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.