

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

Fast response time with pressure output display

High flow

Excellent performance characteristics

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 pressure:

0 to 2, 0 to 6, 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 NI/min max. (see characteristic curves)

Response time:

< 80 ms (from 10 - 90% of output pressure

into a 0,1 litre load)

Air consumption:

< 5 NI/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

Degree of protection:

IP 65 in normal operation

Display accuracy:

Better than ± 3% of span

Linearity: < 1% Hysteresis: < 1%

Vibration immunity:

< 3% output shift for ± 3 g 10-150 Hz

Weight:

approx. 0,30 kg



Materials:

Body: aluminium Lid and end cover: nylon

Electrical parameters

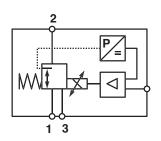
see page 2

Ordering information

See page 2

Alternative models

ISO 2 manifold version, with adaptor plate

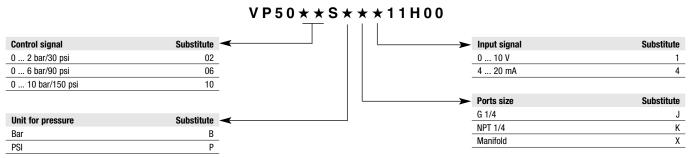




Electrical parameters

Electromagnetic compatibility	CE marked: conforms to EC requirements
	EN 50081-2 (1994) and EN 50082-2 (1995)
Electrical input signal	4 to 20 mA or 0 to 10 V factory set
Electrical power input	24 V d.c. ±25% (power consumption < 1 W)
Output pressure feedback signal	0 10 V full range
Connections	M12x1, 5-pin

Options selector



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: VP5002SBJ411H00**

Connecting plugs



Electrical connector pin looking into the end of the instrument



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

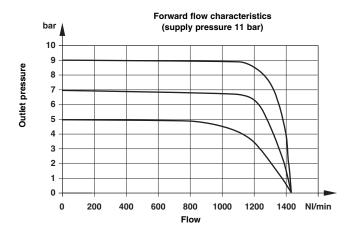
Manifold mount assembly to ISO 2 sub base

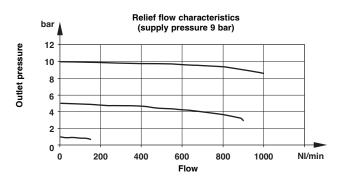


0-rings, flat seal and screws are included

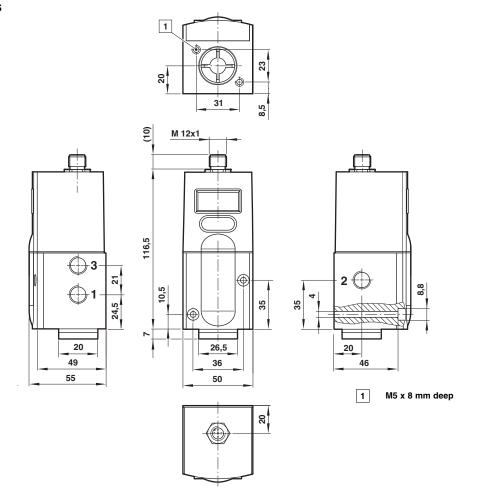


Characteristic curves



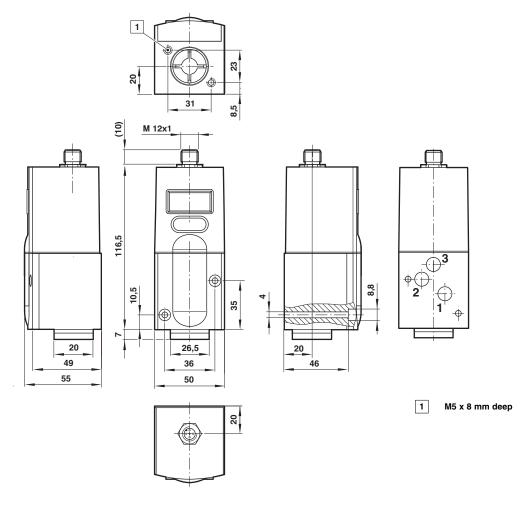


Basic dimensions

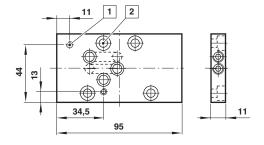




VP50 with manifold surface



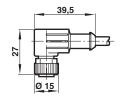
Manifold mount assembly to ISO 2 sub base Included all seals and screws

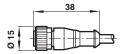


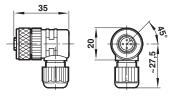
- Four screws M6 x 16 mm deep to mount the manifold onto the ISO sub base
- Two screws M4 x 50 mm deep to mount the VP50S onto the manifold



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.