

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

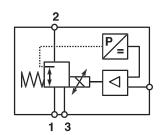
see page 2

Ordering information

See page 2

Alternative models

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

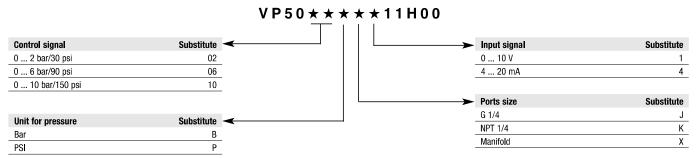




Electrical parameters

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-nin

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.

(M12x1, 5-pin) is included **Quote: VP5002BJ411H00**

Connecting plugs



Manifold mount assembly to ISO 2 sub base



O-rings, flat seal and screws are included

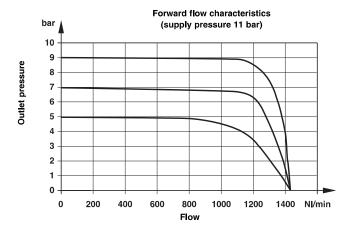
Electrical connector pin looking into the end of the instrument

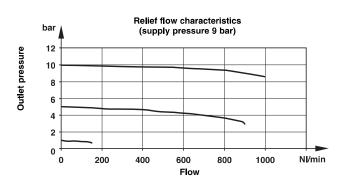


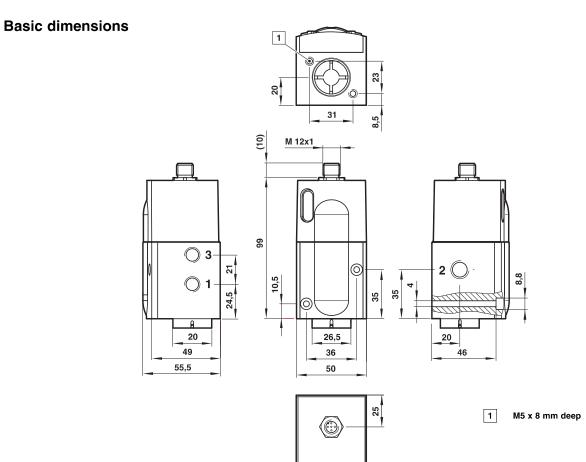
Pin- No.	Function
1	+24 V d.c. supply
2	0 10 V feedback
3	Contol signal (+VE)
4	Common (supply signal and feedback return)
5	Chassis



Characteristic curves

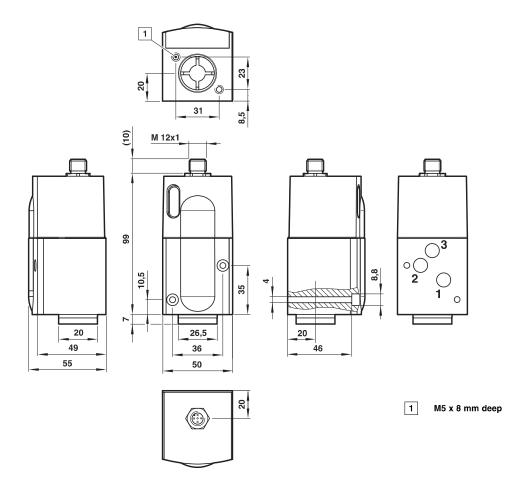




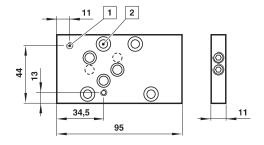




VP50 with manifold surface



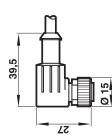
Manifold mount assembly to ISO 2 sub base Included all seals and screws

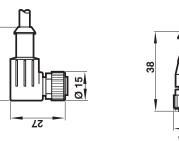


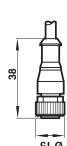
- Four screws M6 x 16 mm deep to mount the manifold onto the ISO sub base
- Two screws M4 x 50 mm deep to mount the VP50 onto the manifold

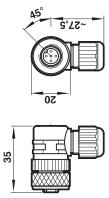


Connector









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