

3 way programmable proportional pressure control valve G 1/4 or 1/4 NPT and manifold Nominal orifice 4

Closed-loop air piloted digital proportional pressure control valve

Ability to set up offline

Fully programmable with on-board diagnostics Multi option language display

High flow

Excellent performance characteristics

Adjustable gain

Instant LED warning lights

Pressure output display

Fast response time

Low power consumption



Technical Data

Medium:

Compressed air filtered to 5 $\mu m,\,dry$ and non-lubricated Operation:

Air piloted spool valve with integrated electronic pressure control

Output pressure:

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:

< 100 ms (from 10 to 90% of output pressure into a 0,1 litre load)

Degree of protection:

IP65 in normal operation

Linearity:

< 50 mbar

Hysteresis:

< ±50 mbar

Vibration immunity:

< 3% output shift for \pm 3 g 10-150 Hz

Weight:

0,80 kg

Materials:

Body: aluminium

Lid and end cover: zinc diecast,

nylon

Electrical parameters

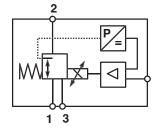
see page 2

Ordering information

See page 2

Alternative models

ISO 2 manifold version, with adaptor plate





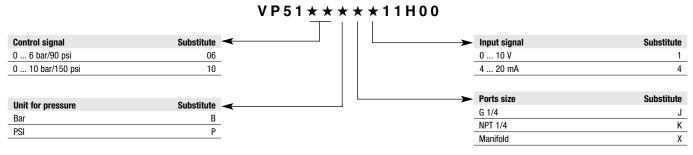
Electrical parameters

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

User functionality options

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Password protection		
Display set-up	Pressure units	
Offline set-up	Max./min. setpoints	
	Speed setting (0 to 7)	
	Dither amp (0 to 7)	
	Proportional gain (0 to 7)	
	Integral gain (0 to 7)	
Online set-up	Max./min. setpoints	
Monitor set-up	Analogue/switched	
	LED configuration	
Local control	Manual pressure control	
Device database	Read only data: unit specific	
	Tag number	
	Change password	
Factory defaults	Restore factory defaults	

Options selector



Other versions on request

Ordering example

Proportional pressure control valve, output 0-6 bar, port size G1/4, input signal 4 ... 20 mA Please note: An wireable straight connector

(M12x1, 5 pin) is included **Quote: VP5106BJ411H00**



Connecting plugs



Manifold mount assembly to ISO 2 sub base



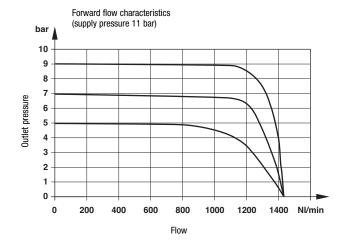
0-rings, flat seal and screws are included

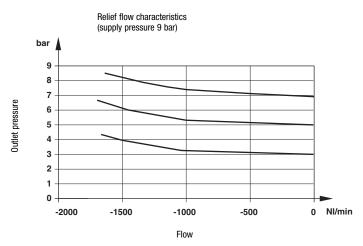
Electrical connector pin looking into the end of the instrument

30	04 5 0 2 0	

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

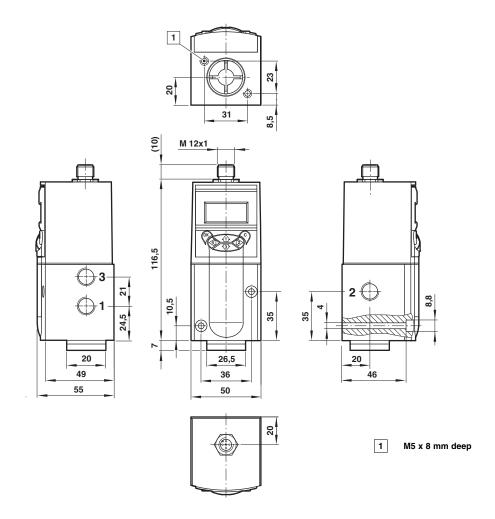
Characteristics curves





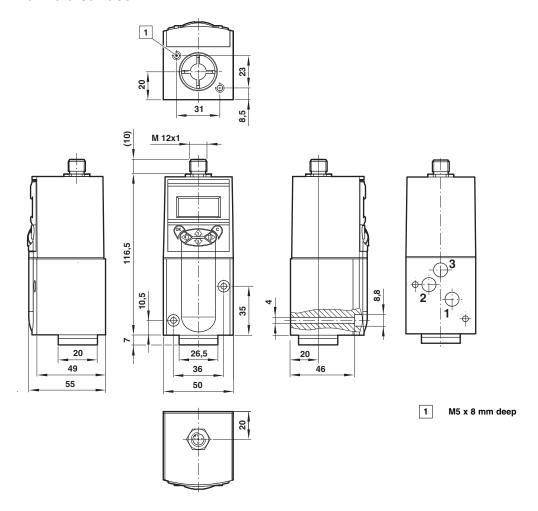


Basic dimensions

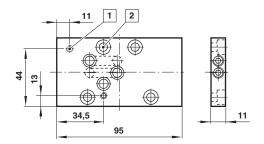




VP51 with manifold surface



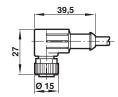
Manifold mount assembly to ISO 2 sub base Included all seals and screws

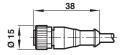


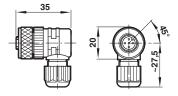
- Four screws M6 x 16 mm deep to mount the manifold onto the ISO sub base
- Two screws M4 x 50 mm deep to mount the VP51 onto the manifold



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.