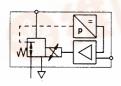
PROPORTIONAL CONTROL VALVES

13 8148

VP50

Proportional pressure control valve G1/4



Features

Air pilot operated proportional pressure control valve

Adjustable for a wide range of applications

Fast response

Low power consumption

High flow



Medium:

Compressed air filtered to 50 μm , non-lubricated

Type:

Proportional, direct acting air piloted spool

Supply pressure: 14 bar max.

Supply sensitivity:

Better than 0,75% span output change per bar supply pressure change

Flow capacity: Up to 1400 I/min

Response time:

< 80 ms (from 10-90% of output pressure into a 0,1 litre load)

Air consumption: <5 l/min

Total error:

Maximum error < ±1% of span (independent error includes the combined effect of non-linearity, hysteresis, deadzone and repeatability)

Operating temperature:

-5°C to +50°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

Vibration immunity:

<3% output shift for 3 g sine 10-150 Hz

Weight: 0,8 kg

Materials

Body: aluminium

Lid and end cover: zinc diecast

Alternative models

Alternative operating temperature ranges ISO 2 manifold version



Control store 6	
0-10	VP5010BJ111H00
0-10	VP5010BJ411H00
0-6	VP5006BJ111H00
0-6	VP5006BJ411H00
0-2	VP5002BJ111H00
0-2	VP5002BJ411H00
	0-10 0-10 0-6 0-6 0-2

Electrical information

Electromagnetic compatibility

Electrical input signal Electrical power input

Output pressure feedback signal

Connections

CE marked: conforms to EC requirements EN 50081-2 (1994) and EN 50082-2 (1995) 4-20 mA or 0-10 V factory set

24 V d.c. ±25% (power consumption < 1 W)

0-10 V full range

DIN 43650 or Brad Harrison connection for feedback output

Instrument pin configuration



- +24V d.c. supply
- 2 0-10 full range
- 3 Control signal (+ve)
- 4 Common (DC supply, signal and feedback return)
- 5 Chassis (earth







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Characteristic curves

