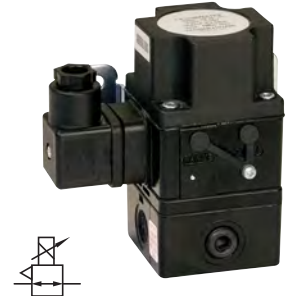


VP10

Proportional pressure control valves

- Port size: 1/4" (ISO G or NPT)
- Reliable, rugged, open loop control
- Proportional I/P and E/P converters
- Minimum vibration effects
- IP65 environmental protection
- Mounting bracket and connector included



Technical features

Medium:

Oil free, dry air, filtered to 5 µm

Output Pressure:

0,2 ... 1 bar (2,9 ... 14 psi)

0,2 ... 2 bar (2,9 ... 29 psi)

0,2 ... 4 bar (2,9 ... 58 psi)

0,2 ... 8 bar (2,9 ... 116 psi)

See ordering options

Supply pressure:

At least 0,7 bar (10 psi) above max. required output pressure.

up to 2 bar (29 psi) instruments:

max 5 bar (72 psi)

up to 8 bar (116 psi) instruments:

max 10 bar (145 psi)

Flow capacity:

> 300NL/min forward & relief flow

Air consumption:

up to 1 bar (1 psi): 2,8 NL/min

up to 2 bar (29 psi): 4,0 NL/min

up to 4 bar (58 psi): 7,5 NL/min

up to 8 bar (116 psi): 9,0 NL/min

Linearity:

≤ 0,5% of span

Hysteresis:

≤ 0,5% of span

Response Time:

<0,35 seconds for 10 ... 90% or 90 ...10% of output pressure into a 10cc load (1 bar range instruments)

Temperature Sensitivity:

< 0,1% of span/°C between -40 ... +85°C (-40 ... 185°F)

Supply sensitivity:

<0,075% span output change per % supply pressure change

Port sizes:

Main ports:

G 1/4 or 1/4 NPT

Integral gauge ports:

G 1/4 or 1/4 NPT

Ambient/Media temperatur:

-40 ... +85°C (-40 ... 185°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F)

I.P. Rating:

IP65 in normal operation

Weight:

1,0 kg

Mounting Position:

Surface mounting bracket

provided.

Alternative mounting options available.

Vibration Effect:

5% of span: 4mmp-p 5 ... 15Hz and 2g sine 15 ... 150Hz.

Materials:

Body: Passivated zinc die-casting, epoxy painted

Cover: Glass reinforced PA

Diaphragms: NBR

Electrical parameters

| | |
|--------------|---|
| Input Signal | mA versions 1 ... 4 bar: 2 wire 4 ... 20 mA; 3 wire 4 ... 20 mA +12 ... 24 V mA versions 6 ... 8 bar: 3 wire 4 ... 20 mA +12 ... 24 V voltage versions 1 ... 4 bar: 2 wire 0 ... 10 V; 3 wire 0 ... 10 V +12 ... 24 V voltage versions 6 ... 8 bar: 3 wire 0 ... 10 V +12 ... 24 V |
| Failure Mode | Output pressure falls to zero signal state when electrical supply fails |
| Connections | 30 mm square connector provided (DIN 43650, form A) mountable in four orientations |
| Span/Zero | Adjustable up to 20 % output range - further information available |

Option selector

VP10★★★★★0★A00

| Pressure range | Substitute | Power supply | Substitute |
|-------------------------------|------------|---|------------|
| 0,2 ... 1 bar / 3 ... 15 psi | 01 | None required | 0 |
| 0,2 ... 2 bar / 3 ... 30 psi | 02 | 12 / 24 V (Required for 6 & 8 bar units) | 1 |
| 0,2 ... 4 bar / 3 ... 60 psi | 04 | Input signal | Substitute |
| 0,2 ... 6 bar / 3 ... 90 psi | 06 | 0 ... 10 V / 1 ... 10 V | 1 |
| 0,2 ... 8 bar / 3 ... 120 psi | 08 | 4 ... 20 mA | 4 |
| Unit of Measure | Substitute | Port size | Substitute |
| bar | B | 1/4 NPT | K |
| psi | P | 1/4 BSP | J |

Other options available:

- Alternative input signal ranges
- Alternative pressure ranges
- Flying Leads
- Conduit entry with flying leads
- Junction box (M20 / 1/2" NPT)
- Intrinsically safe certification
- 50 mm pipe mounting bracket
- Captured exhaust
- Reverse acting
- Split range

