PROPORTIONAL FLOW CONTROL VALVE

VP60 G1/4

- High flow rate, low pressure loss
- Calibrated, linear flow characteristic with zero crossover
- Choice of setpoint input: 4 … 20 mA, ±5 V, 0 … 10 V, fixed value, function generator, optional Profibus DP
- Silicon-free to test spec P-VW 3.10.7/01.92
- Fast dynamic response
- Diagnostic function
- CE compliant 89/336/EEC

Technical Data

Medium:
ISO8573-1 Class: 2-3-1, filtered, dried, oil-free
The dynamic performance and service life of the valve may be significantly reduced if using unfiltered air containing water and oil!

Operation:
Directly-controlled spool valve with fast dynamic response

Flow:
1200 N l/min at p1 = 6 bar, p2 = 5 bar

Ambient/Media temperature:
Ambient: 0°C … +60°C
Media: 5°C … +60°C
Air supply must be dry enough to avoid ice formation at temperatures below +2°C

Leakage:
Typical value: 8 N l/min
(p1 = 10 bar and p2/4 = 0 bar)

Degree of protection:
IP65

Service life:
>250 million full-travel operations with recommended air quality

Response sensitivity:
± 0,5 (% max. Q)*

Hysteresis:
± 0,5 (% max. Q)*

Repeat accuracy:
± 1,0 (% max. Q)*

Linearity:
± 3,0 (% max. Q)*
* Values related to 20°C
Dynamic values stated relate 24 V d.c. power supply

Materials

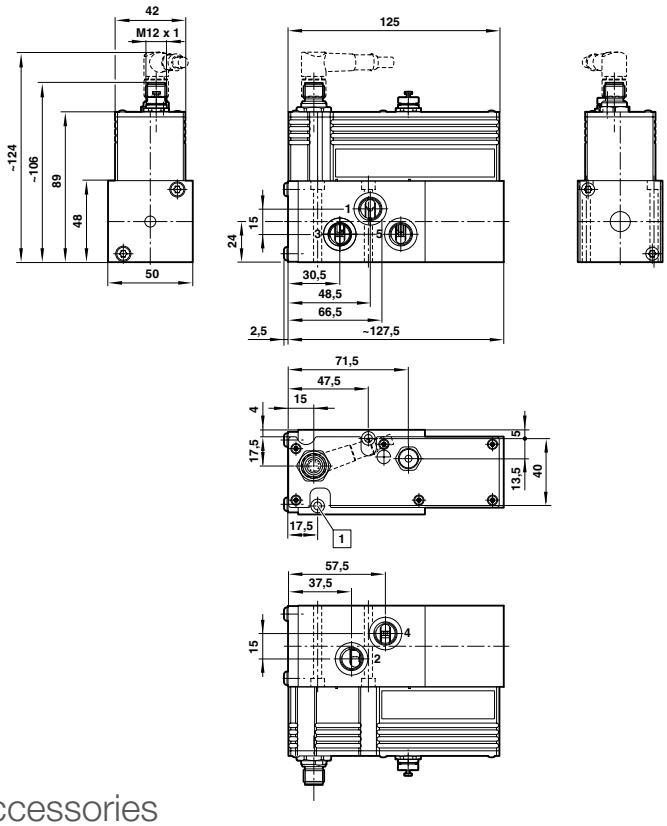
Electronic enclosure:
PAA

Valve housing and internal parts:
Anodised aluminium

Other static seals:
NBR

Actuator magnet:
Fe, surface refined

Dimensions



Models

Accessories

Model	Orifice (mm)	Output pressure (bar)	Set point	Actual value	Straight fitting	Elbow fitting	Silencer	Straight connector M 12 x 1	Elbow connector M 12 x 1
VP6010LJ461MB200	8	-1 … 16	4 … 20 mA	0 … 10 V/4 … 20 mA	C02250828	C02470828	T40C2800	0250811000000000	0250813000000000
VP6010LJ661MB200	8	-1 … 16	-5 V … +5 V	0 … 10 V/4 … 20 mA	C02250828	C02470828	T40C2800	0250811000000000	0250813000000000
VP6010LJ761MB200	8	-1 … 16	0 … 10 V	0 … 10 V/4 … 20 mA	C02250828	C02470828	T40C2800	0250811000000000	0250813000000000

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