

Proportional pressure control valve VPPL-3L-3-G14-0L40H-V1-A-S1-7

Part number: 1635977

FESTO



General operating condition

Data sheet

Feature	Value
Nominal width pressurization	3 mm
Exhaust nominal width	3 mm
Actuation type	Electrical
Sealing principle	Soft
Mounting position	Any Preferably upright
Structural design	Directly controlled piston regulator
Short-circuit protection	No
Max. cable length	30 m
Safety instructions	VPPL safety position: if the power supply cable breaks, the outlet pressure will drop to 0 bar.
Symbol	00991479
Reverse polarity protection	for all electrical connections
Reset method	Mechanical spring
Type of control	directly
Valve function	3-way proportional pressure control valve closed
Display type	LED indicator
Operating pressure	≤5 MPa
Operating pressure	≤50 bar
Pressure regulation range MPa	0.04 MPa ... 4 MPa
Pressure regulation range	0.4 bar ... 40 bar
Inlet pressure 1	0 bar ... 50 bar
Inlet pressure 1 MPa	0 MPa ... 5 MPa
Max. pressure hysteresis	0.04 MPa
Max. pressure hysteresis	0.4 bar
Max. pressure hysteresis	5.8 psi
b-value	0.25
C value	0.8 l/sbar
Normal nominal flow rate (normalized to DIN 1343)	245 l/min
Standard nominal flow rate 2-3	282 l/min
Switching time off	654 ms
On switching time	428 ms
DC operating voltage range	21.6 V ... 27.6 V
Duty cycle	100%
Max. electrical power consumption	26.7 W

Feature	Value
Residual ripple	10%
Analog output signal range	4 - 20 mA
Analog input signal range	0 - 10 V
Setpoint/actual values	Voltage type 0 - 10 V
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gases
Information on operating and pilot media	Operation with oil lubrication not possible
Certification	c UL us - Listed (OL)
KC characters	KC-EMV
CE marking (see declaration of conformity)	As per EU EMC directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364 Zone III
Temperature of medium	5 °C ... 50 °C
Degree of protection	IP65
Ambient temperature	5 °C ... 50 °C
Storage temperature	-10 °C ... 60 °C
Product weight	1100 g
Linearity error in ± % FS	1 %FS
Overall accuracy	1.5 %FS
Temperature coefficient	0.04 %/K
Repetition accuracy in ± %FS	1 %FS
Electrical connection, diagnostic interface	Socket, M12, 5-pin, A-coded
Electrical connection IN	Plug, M12, 5-pin, A-coded
Electrical connection OUT	Plug, M12, 5-pin, A-coded
Type of mounting	With through-hole
Pneumatic connection 1	G1/4
Pneumatic connection 2	G1/4
Pneumatic connection 3	G1/4
Note on materials	RoHS compliant
Housing material	Wrought aluminum alloy, anodized