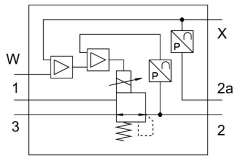
Proportional pressure control valve
VPPL-3Q-3-0L20H-V1-A-S1-2

Part number: 1635984





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.
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	2 MPa 20 bar
Pressure regulation range MPa	0.02 MPa...2 MPa
Pressure regulation range	0.2 bar...20 bar
Inlet pressure 1	0 bar...50 bar
Inlet pressure 1 MPa	0 MPa...5 MPa
Max. pressure hysteresis	0.01 MPa 0.1 bar 1.45 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%

Feature	Value
Max. electrical power consumption	26.7 W
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	0.5 %FS
Overall accuracy	0.5 %FS
Temperature coefficient	0.04 %/K
Repetition accuracy in ± %FS	0.5 %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	Flange
Pneumatic connection 2	Flange
Pneumatic connection 3	Flange
Note on materials	RoHS compliant
Housing material	Wrought aluminum alloy, anodized