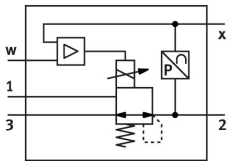
Proportional-pressure regulator
VPPL-3L-3-G14-0L20H-V1-V-S1-6

Part number: 1635989



Data sheet

Feature	Value
Nominal size, supply	3 mm
Nominal size, exhaust	3 mm
Type of actuation	Electrical
Sealing principle	Soft
Mounting position	Any Preferably upright
Design	Directly actuated piston regulator
Short circuit current rating	No
Max. cable length	30 M
Safety instructions	Safety position VPPL: if the power supply cable is interrupted, the output pressure drops to 0 bar.
Reverse polarity protection	For all electrical connections
Type of reset	Mechanical spring
Type of piloting	Direct
Valve function	3-way proportional-pressure regulator, closed
Display type	LED indicator
Operating pressure	2 MPa 20 bar
Pressure regulation range	0.02 MPa...2 MPa 0.2 bar...20 bar
Inlet pressure 1	0 bar...50 bar 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
Standard nominal flow rate (standardised to DIN 1343)	245 l/min
Standard nominal flow rate 2-3	282 l/min
Switching time off	654 ms
Switching time on	428 ms
Operational voltage range DC	21.6 V...27.6 V
Duty cycle	100%

Feature	Value
Max. electrical power consumption	26.7 W
Residual ripple	10%
Signal range analogue output	0 - 10 V
Signal range analogue input	0 - 10 V
SETPOINT/ACTUAL values	Voltage type 0 - 10 V
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4] Inert gas
Note on operating and pilot medium	Lubricated operation not possible
Approval	c UL us - Listed (Oil)
KC mark	KC-EMV
CE mark (see declaration of conformity)	To 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
Media temperature	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
Total accuracy	0.5 %FS
Temperature cooefficient	0.04 %/K
Repetition accuracy in ± %FS	0.5 %FS
Electrical connection diagnostics interface	Socket, M12, 5-pin, A-coded
Electrical connection, IN	Plug connector, M12, 5-pin, A-coded
Electrical connection, OUT	Plug connector, M12, 5-pin, A-coded
Type of mounting	With through-hole
Pneumatic connection, port 1	G1/4
Pneumatic connection, port 2	G1/4
Pneumatic connection, port 3	G1/4
Note on materials	RoHS compliant
Material housing	Anodised wrought aluminium alloy