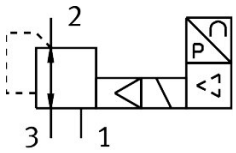
Proportional-pressure regulator
VPPM-8L-L-1-G14-0L10H-V1P-S1C1

Part number: 571293



General operating condition

Data sheet

Feature	Value
Nominal size, supply	8 mm
Nominal size, exhaust	7 mm
Type of actuation	Electrical
Sealing principle	Soft
Mounting position	Any
Design	Piloted diaphragm regulator
Short circuit current rating	For all electrical connections
Safety instructions	Safety position VPPM: if the power supply cable is interrupted, output pressure is maintained unregulated.
Symbol	00995303
Reverse polarity protection	For all electrical connections
Type of reset	Mechanical spring
Type of piloting	Piloted
Valve function	3-way proportional pressure regulator
Display type	Back-lit LCD
Pressure regulation range	0.01 MPa ... 1 MPa
Pressure regulation range	0.1 bar ... 10 bar
Inlet pressure 1	0 bar ... 11 bar
Inlet pressure 1	0 MPa ... 1.1 MPa
Max. pressure hysteresis	0.05 bar
Standard nominal flow rate (standardised to DIN 1343)	2750 l/min
Operational voltage range DC	21.6 V ... 26.4 V
Max. current consumption	300 mA
Duty cycle	100%
Max. electrical power consumption	7 W
Residual ripple	10%
Switching output	PNP
Signal range analogue output	0 - 10 V
Accuracy analogue output in ± %FS	2 %FS
Signal range analogue input	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	RCM c UL us - Listed (Oil)
KC mark	KC-EMV

Feature	Value
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Certificate issuing authority	UL E322346
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Media temperature	10 °C ... 50 °C
Degree of protection	IP65
Ambient temperature	0 °C ... 50 °C
Product weight	560 g
Linearity	1 %FS
Hysteresis	0.5 %FS
Reproducibility	0.5 %FS
Total accuracy	1.25 %FS
Temperature cooefficient	0.04 %/K
Repetition accuracy FS	0.5 %
Electrical connection	M12 Plug
Type of mounting	With through-hole With accessories
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	Wrought aluminium alloy anodised