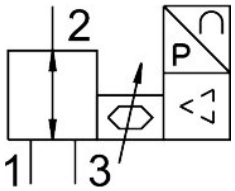
Proportional-pressure regulator
VEAB-B-26-D12-F-LK-1R1

Part number: 8191414





Data sheet

Feature	Value
Valve function	3-way proportional-pressure regulator, closed
Flow direction	Non-reversible
Type of piloting	Direct
Type of reset	Mechanical spring
Type of actuation	Electrical
Mounting position	Any
Grid dimension	18 mm
Sealing principle	Soft
Total leakage	1 l/h
Ambient temperature	0 °C...50 °C
Media temperature	5 °C...50 °C
Storage temperature	-20 °C...70 °C
Relative air humidity	5 - 85%
Dimensions (W x L x H)	18 mm x 67 mm x 66 mm
Pneumatic connection, port 1	Flange
Pneumatic connection, port 2	Flange
Pneumatic connection, port 3	Flange
Material seals	EPDM HNBR NBR
Type of mounting	Either: With through-hole With accessories
Inlet pressure 1	0 MPa...0.1 MPa 0 bar...1 bar 0 psi...14.5 psi
Burst pressure	18 bar
Output pressure 2	0 MPa...0.02 MPa 0 bar...0.2 bar 0 psi...2.9 psi
Standard nominal flow rate (standardised to DIN 1343)	5 l/min
Standard nominal flow rate 2-3	4 l/min
Linearity	0.5 %FS

Feature	Value
Reproducibility	0.2 %FS
Hysteresis	0.25 %FS
Temperature cooefficient	0.05 %/K
Total accuracy	0.7 %FS
Product weight	70 g
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4] Inert gas
Note on operating and pilot medium	Lubricated operation not possible
Nominal altitude of use	< 3000 m NHN
Instructions on use	The device has been developed, designed and built exclusively for industrial and commercial use. The device has not been authorised for private use.
Degree of protection	IP65
Approval	RCM
KC mark	KC-EMV
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364 zone III
Corrosion resistance class CRC	2 - Moderate corrosion stress
Operational voltage range DC	18 V...30 V
Nominal operating voltage DC	24 V
Max. current consumption	83 mA
Residual ripple	10%
Setpoint value input	IO-Link®
Max. electrical power consumption	1.5 W
Reverse polarity protection	For all electrical connections
Short circuit current rating	For all electrical connections
Safety instructions	Error status VEAB: If the electrical power supply fails, the output pressure will be unregulated and may rise or fall – pressure regulator is blocked. The behaviour in the event of loss of IO-Link® communication can be parameterised. Factory setting: Pressure regulator blocked.
Display type	LED
Electrical connection	4-pin M8x1 Plug To EN 60947-5-2
Max. cable length	20 M
Material housing	Reinforced PA
Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
IO-Link, Number of ports	1
IO-Link, Protocol version	Device V 1.1
IO-Link, Device ID	0x03A5
IO-Link, communication mode	COM3 (230.4 kBaud)
IO-Link, port type	Class A
IO-Link, connection technology	Device 3-pin
IO-Link, Port class	Device A
IO-Link, Min. cycle time	0.5 ms
IO-Link, Process data length OUT	2 bytes
IO-Link, Process data length IN	2 bytes