

Proportional pressure control valve VEAB-B-26-D12-F-LK-1R1

Part number: 8191414

FESTO



Data sheet

Feature	Value
Valve function	3-way proportional pressure control valve closed
Flow direction	Non-reversible
Type of control	Direct
Reset method	Mechanical spring
Actuation type	Electrical
Mounting position	Any
Width dimension	18 mm
Sealing principle	Soft
Total leakage	1 l/h
Ambient temperature	0 °C...50 °C
Temperature of medium	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 1	Flange
Pneumatic connection 2	Flange
Pneumatic connection 3	Flange
Seals material	EPDM HNBR NBR
Type of mounting	Optionally: With through-hole With accessories
Inlet pressure 1 MPa	0 MPa...0.1 MPa
Inlet pressure 1	0 bar...1 bar
Inlet pressure 1 psi	0 psi...14.5 psi
Burst pressure	18 bar
Output pressure 2	0 MPa...0.02 MPa 0 psi...2.9 psi
Outlet pressure 2	0 bar...0.2 bar
Standard nominal flow rate	5 l/min
Standard nominal flow rate 2-3	4 l/min

Feature	Value
Linearity	0.5 %FS
Reproducibility	0.2 %FS
Hysteresis	0.25 %FS
Temperature coefficient	0.05 %/K
Overall accuracy	0.7 %FS
Product weight	70 g
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas
Information on operating and pilot media	Operation with oil lubrication not possible
Nominal altitude of use above sea level	< 3000 m NHN
Application note	The device was developed, designed and built exclusively for industrial and commercial applications. The device has not been approved for private use.
Degree of protection	IP65
Certification	RCM compliance mark
KC characters	KC EMC
CE marking (see declaration of conformity)	As per EU EMC directive As per 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
DC operating voltage range	18 V...30 V
Nominal operating voltage DC	24 V
Max. current consumption	83 mA
Residual ripple	10 %
Setpoint input	IO-Link®
Max. electrical power consumption	1.5 W
Reverse polarity protection	for all electrical connections
Short-circuit protection	For all electrical connections
Safety instructions	Error state VEAB: In the event of an electrical power failure, output pressure is unregulated and may rise or fall – pressure regulator is blocked. The behavior in the event of loss of IO-Link® communication can be parameterized. Factory setting: Pressure regulator blocked.
Display type	LED
Electrical connection	4-pin M8x1 Plug as per EN 60947-5-2
Max. cable length	20 m
Housing material	PA-reinforced
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 as per 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 kBd)
IO-Link, port type	Class A
IO-Link®, Connection technology	Device 3-pin
IO-Link®, port class	Device A
IO-Link®, minimum cycle time	0.5 ms
IO-Link®, process data width OUT	2 Byte
IO-Link®, process data width IN	2 Byte