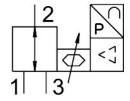
Proportional pressure control valve VEAA-L-3-D2-Q4-V1-1R1 Part number: 8046901

FESTO





Data sheet

Direct	Feature	Value
Actuation type Electrical Mounting position Any Sealing principle Soft Ambient temperature O °C50 °C Femperature of medium Storage temperature Oimensions W x L x H Dimensions W x L x H District Connection 1 QS-4 Dimensions W x L x H District Connection 2 QS-4 Dimensions W x L x H District Connection 3 QS-4 Dimensions W x L x H District Connection 3 QS-4 Dimensions W x L x H District Connection 3 QS-4 District Connection 3 District Conne	Valve function	3-way proportional pressure control valve
Actuation type Electrical Mounting position Any Sealing principle Soft Ambient temperature O °C50 °C Femperature of medium 5 °C50 °C Storage temperature -20 °C70 °C Dimensions W x L x H Denumatic connection 1 QS-4 Penumatic connection 2 QS-4 Penumatic connection 3 QS-4 Penumatic connection 3 With through-hole with accessories Optionally: Inlet pressure 1 MPa Inlet pressure 1 MPa Inlet pressure 1 psi Dutput pressure 2 O.001 MPa0.2 MPa O.145 psi29 psi Dutput pressure 2 Standard nominal flow rate 2-3 Linearity Reproducibility O.4 %FS Linearity Overall accuracy O.75 %FS Femperature coefficient O.05 %/K Overall accuracy O.75 %FS	Type of control	Direct
Mounting position Sealing principle Soft Ambient temperature O °C50 °C Storage temperature Femperature of medium S °C50 °C Storage temperature -20 °C70 °C Oimensions W x L x H Discounting Oimensions W x L x H Presumatic connection 1 OS-4 Presumatic connection 2 OS-4 Presumatic connection 3 OS-4 Presumatic connection 3 OS-4 Presumatic presumed by the following of the f	Reset method	Mechanical spring
Sealing principle Soft Ambient temperature O °C50 °C Femperature of medium S °C50 °C Femperature of medium S °C50 °C Force temperature -20 °C70 °C Force temperature Force temperature -20 °C70 °C Force temperature -20 °C70 °C Force temperature Force temperature -20 °C70 °C Force temperature Force temperature -20 °C70 °C Force temperature	Actuation type	Electrical
Ambient temperature O °C50 °C Femperature of medium 5 °C50 °C Storage temperature -20 °C70 °C Dimensions W x L x H 15 mm x 54.5 mm x 85 mm Peneumatic connection 1 QS-4 Peneumatic connection 2 Peneumatic connection 3 QS-4 Peneumatic connection 3 With through-hole with accessories Optionally: Inlet pressure 1 MPa Inlet pressure 1 Inlet pressure 1 psi O bar11 bar Inlet pressure 2 O.001 MPa0.2 MPa O.145 psi29 psi Outlet pressure 2 O.01 bar2 bar Standard nominal flow rate Standard nominal flow rate Standard nominal flow rate 2-3 Inlet pressure 3 O.5 %FS Femperature coefficient O.5 %FS Femperature coefficient O.75 %FS	Mounting position	Any
Section Sect	Sealing principle	Soft
20 °C70 °C	Ambient temperature	0 ℃50 ℃
15 mm x 54.5 mm x 85 mm	Temperature of medium	5 ℃50 ℃
Preumatic connection 1 OS-4 Preumatic connection 2 OS-4 Preumatic connection 3 OS-4 Preumatic connection 2 OS-4 Preumatic connection 3 OS-4 Preumatic connection 3 OS-4 Preumatic connection 2 OS-4 Preumatic connection 3 OS-4 Preumatic connection 3 OS-4 Preumatic connection 2 OS-4 Preumatic connection 3 OS-4 Preumatic connection 3 OS-4 OS-4 Preumatic connection 3 OS-4 Preumatic connection 3 OS-4 OS-4 Preumatic connection 2 OS-4 OS-4 ONBR With through-hole with through	Storage temperature	-20 °C70 °C
Preumatic connection 2 Preumatic connection 3 QS-4 Preumatic connection 3 QS-4 Preumatic connection 3 QS-4 With through-hole With accessories Optionally: Inlet pressure 1 MPa Inlet pressure 1 Inlet pressure 1 Inlet pressure 1 Inlet pressure 1 Inlet pressure 2 Inlet pressure 3 Inlet pressure 3 Inlet pressure 4 Inlet pressure 5 Inlet pressure 5 Inlet pressure 6 Inlet pressure 7 Inlet pressure 9 Inlet pr	Dimensions W x L x H	15 mm x 54.5 mm x 85 mm
Preumatic connection 3 QS-4 NBR Type of mounting With through-hole With accessories Optionally: Inlet pressure 1 MPa Inlet pressure 1 Inlet pressure 1 psi Output pressure 2 Output pressure 2 Output pressure 2 Outlet pressure 2 Outlet pressure 2 Outlet pressure 3 It min Standard nominal flow rate Standard nominal flow rate 2-3 It min Standard nominal flow rate 2-3 It min Output pressure 2 Output pressure 3 Output pressure 3 Output pressure 4 Output pressure 5 Output pressure 5 Output pressure 9	Pneumatic connection 1	QS-4
NBR Type of mounting With through-hole With accessories Optionally: nlet pressure 1 MPa O MPa1.1 MPa nlet pressure 1 psi Output pressure 2 O.001 MPa0.2 MPa 0.145 psi29 psi Outlet pressure 2 Standard nominal flow rate Standard nominal flow rate 2-3 Jimin Standard nominal flow rate 2-3 Alymin Jinearity O.5 %FS Reproducibility O.4 %FS Femperature coefficient O.05 %/K Overall accuracy NBR With through-hole With accessories Optionally: NBR NBR With through-hole With accessories Optionally: O MPa1.1 MPa O MPa1.1 MPa O MPa1.1 MPa O bar1 bar O psi159.5 psi Optionally: O psi159.5 psi Optionally: O psi159.5 psi Optionally: O par1 bar O psi159.5 psi Optionally: O par1 bar O par1 bar O par1 MPa O par1 bar O	Pneumatic connection 2	QS-4
Type of mounting With through-hole With accessories Optionally: Inlet pressure 1 MPa O MPa1.1 MPa O bar11 bar O bar11 bar O psi159.5 psi Output pressure 2 O.001 MPa0.2 MPa O.145 psi29 psi Outlet pressure 2 O.01 bar2 bar Standard nominal flow rate Standard nominal flow rate 2-3 Jimin Jinearity O.5 %FS Reproducibility O.4 %FS Hysteresis O.25 %FS Temperature coefficient O.75 %FS	Pneumatic connection 3	QS-4
With accessories Optionally: nlet pressure 1 MPa 0 MPa1.1 MPa 1 obar11 bar nlet pressure 1 psi 0 psi159.5 psi Output pressure 2 0.001 MPa0.2 MPa 0.145 psi29 psi Outlet pressure 2 0.01 bar2 bar Standard nominal flow rate 7 l/min Standard nominal flow rate 2-3 3 l/min Linearity 0.5 %FS Reproducibility 0.4 %FS Interpretature coefficient 0.05 %/K Overall accuracy 0.75 %FS	Seals material	NBR
nlet pressure 1 nlet pressure 1 psi O psi159.5 psi Output pressure 2 O.001 MPa0.2 MPa 0.145 psi29 psi Outlet pressure 2 O.01 bar2 bar Standard nominal flow rate Standard nominal flow rate 2-3 Standard nomi	Type of mounting	With accessories
Output pressure 1 psi Output pressure 2 Outlet pressure 3 Outlet pressure 4 Outlet pressure 5 Outlet pressure 5 Outlet pressure 7 Outlet pressure 7 Outlet pressure 9 Outlet p	Inlet pressure 1 MPa	0 MPa1.1 MPa
Output pressure 2 Output pressure 2 Outlet pressu	Inlet pressure 1	0 bar11 bar
0.145 psi29 psi Outlet pressure 2 0.01 bar2 bar Standard nominal flow rate Standard nominal flow rate 2-3 3 l/min Linearity 0.5 %FS Reproducibility 0.4 %FS Hysteresis 0.25 %FS Temperature coefficient 0.05 %/K Overall accuracy 0.75 %FS	Inlet pressure 1 psi	0 psi159.5 psi
Standard nominal flow rate Standard nominal flow rate 2-3 3 l/min Linearity 0.5 %FS Reproducibility 0.4 %FS Hysteresis 0.25 %FS Temperature coefficient 0.05 %/K Overall accuracy 0.75 %FS	Output pressure 2	
Standard nominal flow rate 2-3 3 l/min 0.5 %FS Reproducibility 0.4 %FS Hysteresis 0.25 %FS Temperature coefficient 0.05 %/K Overall accuracy 0.75 %FS	Outlet pressure 2	0.01 bar2 bar
Linearity 0.5 %FS Reproducibility 0.4 %FS Hysteresis 0.25 %FS Temperature coefficient 0.05 %/K Overall accuracy 0.75 %FS	Standard nominal flow rate	7 l/min
Reproducibility 0.4 %FS Hysteresis 0.25 %FS Temperature coefficient 0.05 %/K Overall accuracy 0.75 %FS	Standard nominal flow rate 2-3	3 l/min
Hysteresis 0.25 %FS Temperature coefficient 0.05 %/K Overall accuracy 0.75 %FS	Linearity	0.5 %FS
Temperature coefficient 0.05 %/K Overall accuracy 0.75 %FS	Reproducibility	0.4 %FS
Overall accuracy 0.75 %FS	Hysteresis	0.25 %FS
	Temperature coefficient	0.05 %/K
Product weight 55 g	Overall accuracy	0.75 %FS
	Product weight	55 g

Feature	Value
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
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	19 V29 V
Nominal operating voltage DC	24 V
Residual ripple	10 %
Reference value	0 - 10 V
Analog output signal range	0 - 10 V
Precision analog output in ± %FS	2 %FS
Max. electrical power consumption	1 W
Reverse polarity protection	for all electrical connections
Short-circuit protection	For all electrical connections
Safety instructions	VEAA/VEAB safety position: if the electrical power supply is lost, the outlet pressure is maintained in uncontrolled form, it may increase or fall – pneumatic valve blocked.
Display type	LED
Electrical connection	4-pin M8x1 Plug as per EN 60947-5-2
Housing material	PA-reinforced