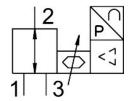
## Proportional pressure control valve VEAA-L-3-D9-Q4-A4-1R1 Part number: 8046904

**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 Sealing temperature Oimensions W x	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  QS-4  Penumatic mounting  With through-hole With accessories Optionally:  nilet pressure 1 MPa  Inlet pressure 1 MPa  Inlet pressure 1 psi  Dutput pressure 2  O.003 MPa0.6 MPa  O.435 psi87 psi  Dutput pressure 2  Standard nominal flow rate  O.25 %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 of medium S °C50 °C Storage temperature -20 °C70 °C Oimensions W x L x H 15 mm x 54.5 mm x 85 mm Oneumatic connection 1 Ogs-4 Oneumatic connection 2 Ogs-4 Oneumatic connection 3 Oneum	Reset method	Mechanical spring
Sealing principle         Soft           Ambient temperature         0 °C50 °C           Temperature 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           Pneumatic connection 1         QS-4           Pneumatic connection 2         QS-4           Pneumatic connection 3         QS-4           Seals material         NBR           Type of mounting         With through-hole With accessories Optionally:           Inlet pressure 1 MPa         0 MPa1.1 MPa           Inlet pressure 1 psi         0 psi159.5 psi           Output pressure 2         0.003 MPa0.6 MPa           Outlet pressure 2         0.003 MPa0.6 MPa           Outlet pressure 2         0.03 bar6 bar           Standard nominal flow rate         10 I/min           Standard nominal flow rate 2-3         6 I/min           Linearity         0.5 %FS           Reproducibility         0.4 %FS           Hysteresis         0.25 %FS           Temperature coefficient         0.05 %/K           Overall accuracy         0.75 %FS	Actuation type	Electrical
Ambient temperature 0 °C50 °C  Temperature of medium 5 °C50 °C  Temperature 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 QS-4  Peneumatic connection 3 QS-4  Peneumatic connection 2 QS-4  Peneumatic connection 3 QS-4  Peneumatic connection 2 QS-4  Peneumatic connection 3 QS-4  Peneumatic connection 3 QS-4	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  QS-4 Preumatic connection 2 QS-4 Preumatic connection 3 QS-4 Preumatic connection 2 QS-4 Preumatic connection 3 QS-4 Preumatic connection 3 QS-4 Preumatic connection 3 QS-4 Preumatic connection 3 QS-4 Preumatic connection 1 QS-4 Preumatic connection 2 QS-4 Preumatic connection 1 QS-4 Preumatic connection 2 QS-4 QS-4 QS-4 QS-4 QS-4 QS-4 QS-4 QS-4	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 psi  Inlet pressure 2  Inlet pressure 3  Inlet pressure 4  Inlet pressure 5  Inlet pressure 6  Inlet pressure 7  Inlet pressure 8  Inlet pressure 9  Inle	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  Outlet pressure 4  Inlet pressure 5  Outlet pressure 9  Out	Pneumatic connection 1	QS-4
NBR Type of mounting With through-hole With accessories Optionally:  nlet pressure 1 MPa  O MPa1.1 MPa  olution pressure 1 psi Output pressure 2  O.003 MPa0.6 MPa 0.435 psi87 psi Outlet pressure 2  O.03 bar6 bar  Standard nominal flow rate Standard nominal flow rate Standard nominal flow rate 2-3  O.5 %FS  Reproducibility  O.4 %FS  Femperature coefficient O.5 %FS  O.75 %FS  O.75 %FS	Pneumatic connection 2	QS-4
With through-hole With accessories Optionally:  nlet pressure 1 MPa  nlet pressure 1  nlet pressure 1 psi  O bar11 bar  nlet pressure 2  O.003 MPa0.6 MPa 0.435 psi87 psi  Outlet pressure 2  O.03 bar6 bar  Standard nominal flow rate  Standard nominal flow rate 2-3  Linearity  O.5 %FS  Reproducibility  O.4 %FS  Iemperature coefficient  O.05 %/K  Overall accuracy  O MPa1.1 MPa  O bar11 bar  O bar11 bar  O bar11 bar  O bar12 bar  O bar159.5 psi  O psi159.5 psi  O psi159.5 psi  O psi159.5 psi  O posi159.5 psi  O posi159.5 psi  O con 3 MPa0.6 MPa 0 con 3 MPa0.6 MPa	Pneumatic connection 3	QS-4
With accessories Optionally:  nlet pressure 1 MPa  0 MPa1.1 MPa  1 obar11 bar  nlet pressure 1 psi  0 utput pressure 2  0.003 MPa0.6 MPa 0.435 psi87 psi  0 utlet pressure 2  0.003 bar6 bar  0 trimin  0	Seals material	NBR
nlet pressure 1 nlet pressure 1 psi O psi159.5 psi Output pressure 2 O.003 MPa0.6 MPa 0.435 psi87 psi Outlet pressure 2 O.03 bar6 bar Standard nominal flow rate Standard nominal flow rate 2-3 Cinearity O.5 %FS Reproducibility O.4 %FS Hysteresis O.25 %FS Temperature coefficient O.75 %FS Overall accuracy O bar11 bar O bar11 bar O bar12 bar O psi159.5 psi O.003 MPa0.6 MPa 0.003 MPa0 MPa 0.003 MPa 0	Type of mounting	With accessories
Dutput pressure 1 psi Output pressure 2 Outlet pressure 3 Outlet pressure 3 Outlet pressure 4 Outlet pressure 5 Outlet pressure 5 Outlet pressure 6 Outlet pressure 7 Outlet pressure 9 Outlet p	Inlet pressure 1 MPa	0 MPa1.1 MPa
Output pressure 2  Outlet pressu	Inlet pressure 1	0 bar11 bar
0.435 psi87 psi Outlet pressure 2 0.03 bar6 bar Standard nominal flow rate 10 l/min Standard nominal flow rate 2-3 6 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  6 l/min  0.5 %FS  Reproducibility  0.4 %FS  Hysteresis  0.25 %FS  Temperature coefficient  0.05 %/K  Overall accuracy  0.75 %FS	Output pressure 2	
6 l/min  inearity  0.5 %FS  Reproducibility  0.4 %FS  Hysteresis  0.25 %FS  Temperature coefficient  0.05 %/K  Overall accuracy  0.75 %FS	Outlet pressure 2	0.03 bar6 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	10 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	6 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	4 - 20 mA
Analog output signal range	4 - 20 mA
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