

# Proportional pressure control valve VEAA-L-3-D9-Q4-A4-1R1

Part number: 8046904

**FESTO**



[PDF General operating condition](#)

## Data sheet

| Feature                                  | Value                                                      |
|------------------------------------------|------------------------------------------------------------|
| Valve function                           | 3-way proportional pressure control valve                  |
| Type of control                          | Direct                                                     |
| Reset method                             | Mechanical spring                                          |
| Actuation type                           | Electrical                                                 |
| Mounting position                        | Any                                                        |
| Sealing principle                        | Soft                                                       |
| Symbol                                   | 00995607                                                   |
| Ambient temperature                      | 0 °C ... 50 °C                                             |
| Temperature of medium                    | 5 °C ... 50 °C                                             |
| Storage temperature                      | -20 °C ... 70 °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<br>With accessories                      |
| Inlet pressure 1 MPa                     | 0 MPa ... 1.1 MPa                                          |
| Inlet pressure 1                         | 0 bar ... 11 bar                                           |
| Inlet pressure 1 psi                     | 0 psi ... 159.5 psi                                        |
| Output pressure 2                        | 0.003 MPa ... 0.6 MPa                                      |
| Outlet pressure 2                        | 0.03 bar ... 6 bar                                         |
| Output pressure 2                        | 0.435 psi ... 87 psi                                       |
| 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                                                   |
| Product weight                           | 55 g                                                       |
| Operating medium                         | Compressed air as per ISO 8573-1:2010 [7:4:4]<br>Inert gas |
| Information on operating and pilot media | Operation with oil lubrication not possible                |

| Feature                                      | Value                                                                                                                                                                         |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Degree of protection                         | IP65                                                                                                                                                                          |
| Certification                                | RCM compliance mark                                                                                                                                                           |
| KC characters                                | KC EMC                                                                                                                                                                        |
| CE marking (see declaration of conformity)   | As per EU EMC directive<br>As per EU RoHS directive                                                                                                                           |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>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 V ... 29 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 $\pm$ %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<br>M8x1<br>Plug<br>as per EN 60947-5-2                                                                                                                                  |
| Housing material                             | PA-reinforced                                                                                                                                                                 |