

# Proportional pressure control valve VEAA-B-3-D9-F-A4-1R1

Part number: 8046895

**FESTO**



## Data sheet

| Feature                                           | Value                                                   |
|---------------------------------------------------|---------------------------------------------------------|
| Valve function                                    | 3-way proportional pressure control valve               |
| Type of control                                   | directly                                                |
| Reset method                                      | Mechanical spring                                       |
| Actuation type                                    | Electrical                                              |
| Mounting position                                 | Any                                                     |
| Sealing principle                                 | Soft                                                    |
| 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 61 mm x 66 mm                                   |
| Pneumatic connection 1                            | Flange                                                  |
| Pneumatic connection 2                            | Flange                                                  |
| Pneumatic connection 3                            | Flange                                                  |
| Seals material                                    | NBR                                                     |
| Type of mounting                                  | Alternatively:<br>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<br>0.435 psi...87 psi               |
| Outlet pressure 2                                 | 0.03 bar...6 bar                                        |
| Normal nominal flow rate (normalized to DIN 1343) | 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]           |

| Feature                                      | Value                                                                                                                                                                         |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                              | Inert gases                                                                                                                                                                   |
| Information on operating and pilot media     | Operation with oil lubrication not possible                                                                                                                                   |
| Degree of protection                         | IP65                                                                                                                                                                          |
| Certification                                | RCM compliance mark                                                                                                                                                           |
| KC characters                                | KC-EMV                                                                                                                                                                        |
| 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                                                                                                                                                                 |