

# Proportional pressure regulator VEAB-B-26-D18-F-V2-1R1

Part number: 8153679

**FESTO**



## Data sheet

| Feature                                               | Value                                                        |
|-------------------------------------------------------|--------------------------------------------------------------|
| Valve function                                        | 3-way proportional pressure regulator                        |
| Type of piloting                                      | Direct                                                       |
| Type of reset                                         | Mechanical spring                                            |
| Type of actuation                                     | Electric                                                     |
| Mounting position                                     | optional                                                     |
| Sealing principle                                     | Soft                                                         |
| Total leakage                                         | 1 l/h                                                        |
| Ambient temperature                                   | 0 °C...50 °C                                                 |
| Media temperature                                     | 5 °C...50 °C                                                 |
| Storage temperature                                   | -20 °C...70 °C                                               |
| Dimensions (W x L x H)                                | 18 x 67 x 66 mm                                              |
| Pneumatic connection, port 1                          | Flange                                                       |
| Pneumatic connection, port 2                          | Flange                                                       |
| Pneumatic connection, port 3                          | Flange                                                       |
| Material seals                                        | NBR                                                          |
| Type of mounting                                      | With through-hole<br>With accessories<br>Either:             |
| Inlet pressure 1                                      | 0 MPa...0.55 MPa<br>0 bar...5.5 bar<br>0 psi...79.75 psi     |
| Output pressure 2                                     | -100 kPa...500 kPa<br>-1 bar...5 bar<br>-14.5 psi...72.5 psi |
| Input pressure 3                                      | -0.1 MPa<br>-1 bar<br>-14.5 psi                              |
| Standard nominal flow rate (standardised to DIN 1343) | 21 l/min                                                     |
| Standard nominal flow rate 2-3                        | 14.5 l/min                                                   |
| Linearity                                             | 0.5 %FS                                                      |
| Reproducibility                                       | 0.4 %FS                                                      |
| Hysteresis                                            | 0.25 %FS                                                     |
| Temperature coefficient                               | 0.05 %/K                                                     |

| Feature                                      | Value                                                                                                                                                |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total accuracy                               | 0.75% FS                                                                                                                                             |
| Product weight                               | 70 g                                                                                                                                                 |
| Operating medium                             | Compressed air to ISO 8573-1:2010 [7:4:4]<br>Inert gases                                                                                             |
| Note on operating and pilot medium           | Lubricated operation not possible                                                                                                                    |
| Degree of protection                         | IP65                                                                                                                                                 |
| Approval                                     | RCM trademark                                                                                                                                        |
| KC mark                                      | KC-EMV                                                                                                                                               |
| CE mark (see declaration of conformity)      | To EU EMC Directive<br>In accordance with 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                                                                                                                        |
| Operational voltage range DC                 | 19 V...29 V                                                                                                                                          |
| Nominal operating voltage DC                 | 24 V                                                                                                                                                 |
| Residual ripple                              | 10 %                                                                                                                                                 |
| Setpoint value                               | 0 - 5 V                                                                                                                                              |
| Signal range analogue output                 | 1 - 5 V                                                                                                                                              |
| Accuracy analogue output in $\pm$ %FS        | 2 %FS                                                                                                                                                |
| Max. electrical power consumption            | 1 W                                                                                                                                                  |
| Reverse polarity protection                  | For all electrical connections                                                                                                                       |
| Short circuit current rating                 | For all electrical connections                                                                                                                       |
| Safety instructions                          | Safety position VEAA/VEAB: if the electrical power supply fails, the output pressure is maintained unregulated and may rise or fall – valve blocked. |
| Display type                                 | LED                                                                                                                                                  |
| Electrical connection                        | 4-pin<br>M8x1<br>Plugs<br>To EN 60947-5-2                                                                                                            |
| Material housing                             | PA-reinforced                                                                                                                                        |