

# Proportional-pressure regulator VEAB-L-26-D14-Q4-LK-1R1

Part number: 8191407

**FESTO**



[PDF](#) General operating condition

## Data sheet

| Feature                                               | Value                                            |
|-------------------------------------------------------|--------------------------------------------------|
| Valve function                                        | 3-way proportional-pressure regulator, closed    |
| Flow direction                                        | Non-reversible                                   |
| Type of piloting                                      | Direct                                           |
| Type of reset                                         | Mechanical spring                                |
| Type of actuation                                     | Electric                                         |
| Mounting position                                     | optional                                         |
| Grid dimension                                        | 18 mm                                            |
| Sealing principle                                     | Soft                                             |
| Total leakage                                         | 1 l/h                                            |
| Symbol                                                | 00995607                                         |
| Ambient temperature                                   | 0 °C ... 50 °C                                   |
| Media temperature                                     | 5 °C ... 50 °C                                   |
| Storage temperature                                   | -20 °C ... 70 °C                                 |
| Relative air humidity                                 | 5 - 85 %                                         |
| Dimensions (W x L x H)                                | 18 x 60.5 x 85 mm                                |
| Pneumatic connection, port 1                          | QS-4                                             |
| Pneumatic connection, port 2                          | QS-4                                             |
| Pneumatic connection, port 3                          | QS-4                                             |
| Material seals                                        | EPDM<br>HNBR<br>NBR                              |
| Type of mounting                                      | Either:<br>With through-hole<br>With accessories |
| Inlet pressure 1                                      | 0 MPa                                            |
| Inlet pressure 1                                      | 0 bar                                            |
| Inlet pressure 1                                      | 0 psi                                            |
| Burst pressure                                        | 18 bar                                           |
| Output pressure 2                                     | -0.1 MPa ... 0 MPa                               |
| Output pressure 2                                     | -1 bar ... 0 bar                                 |
| Output pressure 2                                     | -14.5 psi ... 0 psi                              |
| Input pressure 3                                      | -0.1 MPa                                         |
| Input pressure 3                                      | -1 bar                                           |
| Input pressure 3                                      | -14.5 psi                                        |
| Standard nominal flow rate (standardised to DIN 1343) | ≥4.5 l/min                                       |

| Feature                                      | Value                                                                                                                                                |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard nominal flow rate 2-3               | ≥3 l/min                                                                                                                                             |
| Linearity                                    | 0.35 %FS                                                                                                                                             |
| Reproducibility                              | 0.2 %FS                                                                                                                                              |
| Hysteresis                                   | 0.25 %FS                                                                                                                                             |
| Temperature coefficient                      | 0.05 %/K                                                                                                                                             |
| Total accuracy                               | 0.5% 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                                                                                                                    |
| Nominal altitude of use                      | < 3000 m NHN                                                                                                                                         |
| Instructions on use                          | The device has been developed, designed and built exclusively for industrial and commercial use. The device has not been authorised for private use. |
| 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                 | 18 V ... 30 V                                                                                                                                        |
| Nominal operating voltage DC                 | 24 V                                                                                                                                                 |
| Max. current consumption                     | 0.083 A                                                                                                                                              |
| Residual ripple                              | 10 %                                                                                                                                                 |
| Setpoint value input                         | IO-Link                                                                                                                                              |
| Max. electrical power consumption            | 1.5 W                                                                                                                                                |
| Reverse polarity protection                  | For all electrical connections                                                                                                                       |
| Short circuit current rating                 | For all electrical connections                                                                                                                       |
| Safety instructions                          |                                                                                                                                                      |
| Display type                                 | LED                                                                                                                                                  |
| Electrical connection                        | 4-pin<br>M8x1<br>Plugs<br>To EN 60947-5-2                                                                                                            |
| Max. cable length                            | 20 m                                                                                                                                                 |
| Material housing                             | PA-reinforced                                                                                                                                        |
| Vibration resistance                         | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6                                                                     |
| Shock resistance                             | Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27                                                                                    |
| IO-Link, Number of ports                     | 1                                                                                                                                                    |
| IO-Link, Protocol version                    | Device V 1.1                                                                                                                                         |
| IO-Link, Device ID                           | 0x03A6                                                                                                                                               |
| IO-Link, communication mode                  | COM3 (230.4 kBaud)                                                                                                                                   |
| IO-Link, port type                           | Class A                                                                                                                                              |
| IO-Link, connection technology               | Device 3-pin                                                                                                                                         |
| IO-Link, Port class                          | Device A                                                                                                                                             |
| IO-Link, Min. cycle time                     | 0.5 ms                                                                                                                                               |
| IO-Link, Process data length OUT             | 2 bytes                                                                                                                                              |
| IO-Link, Process data length IN              | 2 bytes                                                                                                                                              |