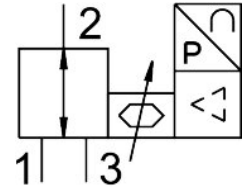


# Proportional pressure control valve VEAB-B-26-D12-F-LK-1R1

Part number: 8191414

**FESTO**



## Data sheet

| Feature                                           | Value                                                   |
|---------------------------------------------------|---------------------------------------------------------|
| Valve function                                    | 3-way proportional pressure control valve closed        |
| Flow direction                                    | Non-reversible                                          |
| Type of control                                   | directly                                                |
| Reset method                                      | Mechanical spring                                       |
| Actuation type                                    | Electrical                                              |
| Mounting position                                 | Any                                                     |
| Width dimension                                   | 18 mm                                                   |
| Sealing principle                                 | Soft                                                    |
| Total leakage                                     | 1 l/h                                                   |
| Ambient temperature                               | 0 °C...50 °C                                            |
| Temperature of medium                             | 5 °C...50 °C                                            |
| Storage temperature                               | -20 °C...70 °C                                          |
| Relative air humidity                             | 5 - 85%                                                 |
| Dimensions W x L x H                              | 18 mm x 67 mm x 66 mm                                   |
| Pneumatic connection 1                            | Flange                                                  |
| Pneumatic connection 2                            | Flange                                                  |
| Pneumatic connection 3                            | Flange                                                  |
| Seals material                                    | EPDM<br>HNBR<br>NBR                                     |
| Type of mounting                                  | Alternatively:<br>With through-hole<br>With accessories |
| Inlet pressure 1 MPa                              | 0 MPa...0.1 MPa                                         |
| Inlet pressure 1                                  | 0 bar...1 bar                                           |
| Inlet pressure 1 psi                              | 0 psi...14.5 psi                                        |
| Burst pressure                                    | 18 bar                                                  |
| Output pressure 2                                 | 0 MPa...0.02 MPa<br>0 psi...2.9 psi                     |
| Outlet pressure 2                                 | 0 bar...0.2 bar                                         |
| Normal nominal flow rate (normalized to DIN 1343) | 5 l/min                                                 |
| Standard nominal flow rate 2-3                    | 4 l/min                                                 |

| Feature                                      | Value                                                                                                                                                                                                                                                                              |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Linearity                                    | 0.5 %FS                                                                                                                                                                                                                                                                            |
| Reproducibility                              | 0.2 %FS                                                                                                                                                                                                                                                                            |
| Hysteresis                                   | 0.25 %FS                                                                                                                                                                                                                                                                           |
| Temperature coefficient                      | 0.05 %/K                                                                                                                                                                                                                                                                           |
| Overall accuracy                             | 0.7 %FS                                                                                                                                                                                                                                                                            |
| Product weight                               | 70 g                                                                                                                                                                                                                                                                               |
| Operating medium                             | Compressed air as per ISO 8573-1:2010 [7:4:4]<br>Inert gases                                                                                                                                                                                                                       |
| Information on operating and pilot media     | Operation with oil lubrication not possible                                                                                                                                                                                                                                        |
| Nominal altitude of use above sea level      | < 3000 m NHN                                                                                                                                                                                                                                                                       |
| Application note                             | The device was developed, designed and built exclusively for industrial and commercial applications. The device has not been approved for private use.                                                                                                                             |
| 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                   | 18 V...30 V                                                                                                                                                                                                                                                                        |
| Nominal operating voltage DC                 | 24 V                                                                                                                                                                                                                                                                               |
| Max. current consumption                     | 83 mA                                                                                                                                                                                                                                                                              |
| Residual ripple                              | 10%                                                                                                                                                                                                                                                                                |
| Setpoint input                               | IO-Link®                                                                                                                                                                                                                                                                           |
| Max. electrical power consumption            | 1.5 W                                                                                                                                                                                                                                                                              |
| Reverse polarity protection                  | for all electrical connections                                                                                                                                                                                                                                                     |
| Short-circuit protection                     | For all electrical connections                                                                                                                                                                                                                                                     |
| Safety instructions                          | Error state VEAB: In the event of an electrical power failure, output pressure is unregulated and may rise or fall – pressure regulator is blocked. The behavior in the event of loss of IO-Link® communication can be parameterized. Factory setting: Pressure regulator blocked. |
| Display type                                 | LED                                                                                                                                                                                                                                                                                |
| Electrical connection                        | 4-pin<br>M8x1<br>Plug<br>As per EN 60947-5-2                                                                                                                                                                                                                                       |
| Max. cable length                            | 20 m                                                                                                                                                                                                                                                                               |
| Housing material                             | PA-reinforced                                                                                                                                                                                                                                                                      |
| Vibration resistance                         | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6                                                                                                                                                                                               |
| Shock resistance                             | Shock test with severity level 2 as per 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                          | 0x03A5                                                                                                                                                                                                                                                                             |
| IO-Link®, communication mode                 | COM3 (230.4 kBd)                                                                                                                                                                                                                                                                   |
| IO-Link, port type                           | Class A                                                                                                                                                                                                                                                                            |
| IO-Link®, Connection technology              | Device 3-pin                                                                                                                                                                                                                                                                       |
| IO-Link®, port class                         | Device A                                                                                                                                                                                                                                                                           |
| IO-Link®, minimum cycle time                 | 0.5 ms                                                                                                                                                                                                                                                                             |
| IO-Link®, process data width OUT             | 2 bytes                                                                                                                                                                                                                                                                            |
| IO-Link®, process data width IN              | 2 Byte                                                                                                                                                                                                                                                                             |