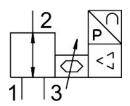
## Proportional pressure control valve VEAB-B-26-D7-F-LK-1R1 Part number: 8191411

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## **Data sheet**

| Feature                        | Value  |
|--------------------------------|--|
| Valve function                 | 3-way proportional pressure control valve closed     |
| Flow direction                 | Non-reversible                                       |
| Type of control                | Direct   |
| 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 °C50 °C  |
| Temperature of medium          | 5 °C50 °C  |
| Storage temperature            | -20 °C70 °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               | Optionally:<br>With through-hole<br>With accessories |
| Inlet pressure 1 MPa           | 0 MPa0.3 MPa   |
| Inlet pressure 1               | 0 bar3 bar   |
| Inlet pressure 1 psi           | 0 psi43.5 psi  |
| Burst pressure                 | 18 bar   |
| Output pressure 2              | 0 MPa0.1 MPa<br>0 psi14.5 psi                        |
| Outlet pressure 2              | 0 bar1 bar   |
| Standard nominal flow rate     | 13 l/min   |
| Standard nominal flow rate 2-3 | 12 l/min   |

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| Feature                                      | Value   |
|--|---|
| Linearity                                    | 0.35 %FS  |
| Reproducibility                              | 0.2 %FS   |
| Hysteresis                                   | 0.25 %FS  |
| Temperature coefficient                      | 0.05 %/K  |
| Overall accuracy                             | 0.5% FS   |
| Product weight                               | 70 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   |
| 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 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                   | 18 V30 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<br>pressure is unregulated and may rise or fall – pressure regulator is<br>blocked. The behavior in the event of loss of IO-Link® communication<br>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                          | 0x03A4  |
| 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 Byte  |
| IO-Link®, process data width IN              | 2 Byte  |