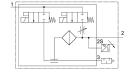
## Vacuum generator OVEL-5-H-10-PQ-VQ4-UA-C-A-V1PNLK-H3 Part number: 8049052





## **Data sheet**

| Feature                                       | Value   |
|---|---|
| Nominal size, Laval nozzle                    | 0.45 mm   |
| Grid dimension                                | 10 mm   |
| Silencer design                               | Open  |
| Mounting position                             | optional  |
| Ejector characteristic                        | High vacuum<br>Standard   |
| Grade of filtration                           | 40 μm   |
| Manual override                               | Non-detenting   |
| Integrated function                           | Electric ejector pulse<br>Flow control<br>Pressure sensor<br>Electric on-off valve<br>Filter<br>Open silencer |
| Design  | T-shape   |
| Switching element function                    | N/C or N/O contact, switchable  |
| Switching function                            | Freely programmable   |
| Valve function                                | Closed  |
| Measurement method                            | Piezoresistive pressure sensor with display   |
| Display type                                  | LED indicator<br>2-digit  |
| Setting options                               | IO-Link®<br>Teach-in<br>Via display and keys  |
| Operating pressure for max. suction flow rate | 0.3 MPa<br>3 bar<br>43.5 psi  |
| Operating pressure                            | 0.2 MPa0.7 MPa<br>2 bar7 bar<br>29 psi101.5 psi   |
| Operating pressure for max. vacuum            | 0.42 MPa<br>4.2 bar<br>60.9 psi   |
| Max. vacuum                                   | 89 %  |

## **FESTO**

| Notes       0.4 MPs         Ass. surction flow rate against atmosphere       0.4 MPs         Ars. surction flow rate against atmosphere       1.5 V76.4 V         Ars. surction flow rate against atmosphere       2.5 V76.4 V         Ars. surction flow rate against atmosphere       2.6 V76.4 V         Dependional voltage range DC       10.0%         Dependional voltage range DC       10.0%         Switching output       PMP/NRM, switchable         Characteristic coil data       2.4 V.0.1.0 W         Approval       CUL su Siadd OU         Construction of conformity)       To EU EMC Directive         UKA maxing (see declaration of conformity)       To EU EMC Directive         Operating medium       Compressed aft to EO S57.57.12010 (7.4.4)         Note on operating and pilot medium       Lubricated operation not possible         Conscin residence datas COC       0.7.5.0 °C         Saud pressure level at nominal operating pressure       6.4.040/L         Degretary output       0.7.5.0 °C         Nober tomperature       0.7.5.0 °C         Posture theoreature       0.7.5.0 °C         Posture theoreature       0.7.5.0 °C         Posture theoreature       0.7.5.0 °C         Posture theorea  | Feature   | Value                                 |
|---|---|---------------------------------------|
| SP pd1         Ass. suction flow rate against atmosphere       4 //min         Ar supply time at nominal operating pressure with ejector pulse       2 s         Operational voltage range DC       21.6 V26.4 V         Duty cycle       10%         Switching output       PMP/NPN, switchable         Characteristic coll data       24 V DC: 1.0 W         Approval       CU us listed (0)         KC mark       KC-EAW         E mark (see declaration of conformity)       To EU EXCIPICIEVE         UKCA marking (see declaration of conformity)       To UK instructions for EMC         Determing medium       Compressed at to 150 857.31:2010 [7:4:4]         Note on operating and plint medium       Confactor operating and plint medium         List S (PMIS) contormity       OV C.5.0 °C         Sound pressure livel at monital operating pressure       64 dB(A)         Degree of protection       IPA0         Ambient temperature       0 *C.50 °C         Product weight       74 g         Operating voltage range, DC sensor       IA V.30 V         Presture measuring range       0 *Los Ov         Product weight       2 and to the operation operating voltage range, DC sensor         Product weight       2 and  | Nominal operating pressure                                |                                       |
| Max. suction flow rate against atmosphere       4 //min         Arr supply time at nominal operating pressure with ejector pulse       2 s         Darty cycle       100%.         Switching output       PNP/NNN, switchable         Characteristic coil data       24 V DC: 1:0 W         Approval       CUL us listed (OU)         KC mark       KC-RW         CE mark (see declaration of conformity)       To ELEMCDirective         UKCA marking (see declaration of conformity)       To UK instructions for EMC         Operating medium       Compressed air to ISO 8573-1:2010[7:4:4]         Note on operains and plot medium       Lubricated operation not possible         Corrosion resistance class CRC       2 - Moderate corrosion stress         Lass (PMNS) conformity       VDM224 364 B102-L         Media temperature       0 *C50 *C         Podauct weigh       Z 4 g         Operating voltage range, DS ensors       18 %30 V         Pressure measuring range       -1. MPa0 MPa4 /   |   |                                       |
| Air supply time at nominal operating pressure with ejector pulse     2 s       Operational voltage range DC     21.6 V26.6 V       Daty cycle     100%       Switching output     PMP/NPN, workchable       Characteristic coll data     2 4 VDc: 1.0 W       Approval     C UL us listed (OL)       KC mark     KC EWW       CE mark (see decharation of conformity)     To EU EMC Directive       URCA marking (see decharation of conformity)     To UK instructions for FMC       Operating medium     Cubricated operation on to possible       Carrosin mesistance class CRC     2 - Moderate corrosion stress       VISA PWN 500 conformity     VDM2A3264-31 /182-1.       Media temperature     0 *C50 *C       Sound pressure level at nominal operating pressure     64 dB(A)       Degree of protection     IP40       Ambient temperature     0 *C50 *C       Product weight     7 4 g       Operating voltage range, DC sensor     18 V30 V       Pressure level at nominal operating pressure     6.4 dB(A)       Deperating voltage range, DC sensor     18 V30 V       Pressure measuring range     -0.1 M*B0 Oral       Electrical connection input, connector system     Connection pattern H   | Max sustion flow rate against atmosphere                  |                                       |
| Operational voltage range DC       21.6 V26.4 V         Duty cycle       100%.         Switching soutput       PMP/NN, witchable         Characteristic coll data       24 V DC: 1.0 W         Approval       CUL us listed IOU         KC: mark       KC:EW         CE mark (see declaration of conformity)       To EUEMC Directive         Querating medium       Compressed air to ISO 8573-1:2010 (7:4-4)         Note on operating and pilot medium       Lubricated operation not possible         Corrosion resistance datas CRC       2 - Noderate corrosion stress         CMS (PMS) conformity       VDMA236431/82-1         Media temperature       0 °C50 °C         Sourd pressure level at nominal operating pressure       64 dB(A)         Degree of protection       IPA0         Ambient temperature       0 °C50 °C         Product weight       74 8         Operating range, DC sensor       18 V30 V         Pressure measuring range       -0.1 MPa0 MPa14.2, psi0 psi         Electrical connection input, function       Elector public         Electrical connection input, function       Electropublic         Electrical connection output, function       Sensor         Electrical connection ou  |   |                                       |
| buty cycle       100%         Switching output       PMP/NPN, switchable         Characteristic coll data       24 V DC 1.0 W         Approval       CUL us Isted (01)         KC mark       KC-EMV         E mark (see declaration of conformity)       To EU EMC Directive         UBCA marking (see declaration of conformity)       To UK instructions for EMC         Operating medium       Cubricated operation or possible         Carosion resistance class CRC       2 - Moderate corrosion stress         Carosion resistance class CRC       2 - Moderate corrosion stress         Sound pressure level at nominal operating pressure       64 dB(A)         Degree of protection       IP40         Ambient temperature       0 °C50 °C         Product weight       74 g         Operating voltage range, DC sensor       18 N30 V         Pressure level at nominal operating protection       IP40         Ambient temperature       0 °C50 °C         Product weight       74 g         Operating voltage range, DC sensor       18 N30 V         Pressure measuring range       1.1 MPa0 APA         Electrical connection input, function       Electrical connection input, connection type         Electrical co   |   |                                       |
| Switching output       PNP/PNP. switchable         Characteristic coll data       24 V DC: 1.0 W         Approval       CUL us listed (0L)         KC mark       KC-RW         Ed mark (see declaration of conformity)       To EU EMC Directive         UCX.narking (see declaration of conformity)       To UK instructions for EMC         Operating medium       Compressed air to ISD 873-1:2010 [7:4:4]         Note on operating and pilot medium       Cubricated operation not possible         Carrosion resistance class CRC       2 - Moderate corrosion stress         LABS (MVS) conformity       VDMA23424-81/82-L         Media temperature       0 *C50 *C         Sound pressure level at nominal operating pressure       64 dB(A)         Degree of protection       IP40         Ambient temperature       0 *C50 *C         Product weight       74 g         Operating voltage range, DC sensor       18 V30 V         Pressure measuring range       -0.1 MPa0 MPa<br>-1 bar0 bar         -1.4.3, spla0 psi       Electrical connection input, connection type         Electrical connection input, number of connections/cores       2         Input electrical connection output, numeritor       Sensor         Electrical connection output, nur                                |   |                                       |
| Characteristic coll data     24 V DC: 1.0 W       Approval     CUL us listed (0.)       KC mark.     KC-EMV       CE mark (see declaration of conformity)     To UE HMC Directive       UKCA marking (see declaration of conformity)     To UE HMC Directive       Operating medium     Compressed air to ISO 8573-1:2010 [7:4:4]       Note on operating and pilot medium     Ubricated operation not possible       Corrosion resistance class CR     2 - Moderate corrosion stress       LASS (PMS) conformity     VDMA23464-B182-L       Media temperature     0 *C50 *C       Sound pressure level at nominal operating pressure     64 dB(A)       Degree of protection     IP40       Ambient temperature     0 *C50 *C       Product weight     74 g       Operating vulkage range, DC sensor     18 V30 V       Pressure measuring range     -0.1 MPa0 MPa       *14.5 p.B0 psi     14       Electrical connection input, function     Ejector pulse       Vacuum generation     12 Mar0 MPa       *14.5 p.B0 psi     Electrical connection input, connector system       Connection input, connector system     Connection gattern H       Electrical connection ouptut, tornection type     Sa m<  |   |                                       |
| Approval       c UL us listed (01)         KC mark       KCERW         C mark (see declaration of conformity)       To EU EMC Directive         UKCA marking (see declaration of conformity)       To EU EMC Directive         UKCA marking (see declaration of conformity)       To UK instructions for EMC         Operating medium       Cubricated operation not possible         Corrosion resistance class CRC       2 - Moderate corrosion stress         LABS (PMS) conformity       VDMA2354-B1/82-L         Media temperature       0°C50 °C         Sound pressure level at nominal operating pressure       64 dB(A)         Degree of protection       IP40         Ambient temperature       0°C50 °C         Product weight       74 g         Operating voltage range, DC sensor       18 V30 V         Pressure measuring range       -0.1 MPa0 MPa         -1 bar0 bar       -1 dar0 bar         -1 4.4 x p.Bi0 poi       Electrical connection input, connector system         Connection input, connector system       Connector         Electrical connection input, connector system       Connector         Electrical connection output, connector system       Connector         Electrical connection output, connector system  |   | 4                                     |
| KC mark   KC EMV     EX mark (see declaration of conformity)   To EU EMC Directive     UKCA marking (see declaration of conformity)   To UK instructions for EMC     Operating medium   Compressed air to ISO 8573-1:2010 [7:4:4]     Nate on operating and pilot medium   Lubricated operation not possible     Corrosion resistence class CKC   2 - Moderate corrosion stress     LABS (PWIS) conformity   VDMA3364.81/82-1.     Media temperature   0 °C50 °C     Sound pressure (evel at nominal operating pressure   64 dB(A)     Degree of protection   P40     Ambient temperature   0 °C50 °C     Product weight   74 g     Operating voltage range, DC sensor   18 %30 V     Pressure measuring range   -0.1 MPa0 Pai     Liector public   74 y     Operating voltage range, DC sensor   18 %30 V     Pressure measuring range   -0.1 MPa0 Pai     Liectrical connection input, connection type   2x plug connector     Electrical connection input, connection type   2x plug connector     Electrical connection input, connection type   Sapa-locking     Electrical connection output, connection type   Sapa-locking     Electrical connection output, connection type   Sapa-locking     Electrical connection output, connection typee   Sapa-locking <                                     |   |                                       |
| CE mark (see declaration of conformity)       To EU EMC Directive         UKCA marking (see declaration of conformity)       To UK Instructions for EMC         Operating medium       Compressed into 150 8573-1:2010[7:4:4]         Note on operating and pilot medium       Lubricated operation motossible         Corrosion resistance class CRC       2 · Moderate corrosion stress         ABS (PWIS) conformity       VDMA23456431(82-1         Media temperature       0 °C50 °C         Sound pressure level at nominal operating pressure       64 dB(A)         Degree of protection       P40         Ambient temperature       0 °C50 °C         Product weight       74 g         Operating voltage range, DC sensor       18 V. 30 V         Pressure measuring range       -0.1 MPa0 MPa<br>-1 bar0 bar         Pressure measuring range       -0.1 MPa0 pil         Electrical connection input, function       Ejector pulse         Vacuum generation       2x plug connector         Electrical connection input, connector system       Connection pattern H         Electrical connection notyput, function       Sensor         Electrical connection output, connection system       Open end         Electrical connection output, numeter of connections/cores       3           |   |                                       |
| UKCA marking (see declaration of conformity)       To UK instructions for EMC         Operating medium       Compressed air to ISO 8573-1:2010[7:4:4]         Note on operating and plot medium       Lubricated operation not possible         Carrosion resistance class CRC       2 - Moderate corrosion stress         LABS (PWIS) conformity       VDMA23564-B1/B2-L         Media temperature       0 *C50 *C         Sound pressure level at nominal operating pressure       64 dB(A)         Degree of protection       IP40         Ambient temperature       0 *C50 *C         Product weight       74 g         Operating voltage range, DC sensor       18 V30 V         Pressure measuring range       -0.1 MPa0 MPa<br>-1 4.5 psl0 psl         Electrical connection input, function       Elector publes         Vacuum generation       2x plug connector         Electrical connection input, connections/cores       2         Input electrical connection output, number of connections/cores       3         Cable characteristic       Saulo contege         Electrical connection output, connections/cores       3         Cable characteristic       Suizable for energy chains         Cable characteristic       Suizable for energy chains                                      |   |                                       |
| Operating medium       Compressed air to ISO 8573-1:2010 [7:4:4]         Note on operating and pilot medium       Lubricated operation not possible         Corrusion resistance class CRC       2 - Moderate corrosion stress         LABS (PWIS) conformity       VDMA24 364-B1/B2-L         Media temperature       0 °C 50 °C         Sound pressure level at nominal operating pressure       64 dB(A)         Degree of protection       IP40         Ambient temperature       0 °C 50 °C         Product weight       74 g         Operating voltage range, DC sensor       18 V 30 V         Pressure measuring range       0.1 MPa 0 MPa<br>-1 4.5 psi 0 pai         Electrical connection input, function       Ejector pulse         Vacuum generation       Vacuum generation         Electrical connection input, connection type       2x plug connector         Electrical connection input, number of connection/cores       2         Input electrical connection output, function       Sensor         Electrical connection output, function       Sensor         Electrical connection output, function type       Cable         Electrical connection output, function       Sensor         Electrical connection output, connector system       Open end                             |   |                                       |
| Note on operating and pilot medium       Lubricated operation not possible         Corrosion resistance class CRC       2 - Moderate corrosion stress         LABS (FWIS) conformity       VDMA2364B1/B2-L         Media temperature       0 *C50 *C         Sound pressure level at nominal operating pressure       64 dB(A)         Degree of protection       IP40         Ambient temperature       0 *C50 *C         Product weight       74 g         Operating voltage range, DC sensor       18 V30 V         Pressure measuring range       0.1 MPa0 MPa<br>-1 bar0 bar<br>-1 bar0 bar<br>-1 bar0 bar         Electrical connection input, function       Ejector pulse<br>Vacuum generation         Vacuum generation       2x plug connector         Electrical connection input, connector system       Connection pattern H         Electrical connection outing type       Snap-looking         Electrical connection outing type       Snap-looking         Electrical connection outing type       Subiable for energy chains         Cable characteristic       Suilable for energy chains         Cable diameter oberance       8.0 mma         Cable length       2.5 m         Nominal cross section conductor       0.1 4 mm <sup>2</sup> Type of mounting <td></td> <td></td>        |   |                                       |
| Corrosion resistance class CRC   2 · Moderate corrosion stress     LABS (PWIS) contormity   VDMA24364-B1/B2-L     Media temperature   0 °C50 °C     Sound pressure level at nominal operating pressure   64 dB(A)     Degree of protection   IP40     Ambient temperature   0 °C50 °C     Product weight   74 g     Operating voltage range, DC sensor   18 V30 V     Pressure measuring range   -0.1 MPa0 MPa<br>-1 bar0 bar<br>-1 bar0 bar<br>-14.5, psi0 psi     Electrical connection input, function   Ejector pulse<br>Vacuum generation     Electrical connection input, connection type   2x plug connector     Electrical connection input, number of connections/cores   2     Input electrical connection output, nonection type   Sanp-locking     Electrical connection output, nonection type   Connection pattern H     Electrical connection output, nonection type   Cable     Electrical connection output, nonection type   Cable     Electrical connection output, nonection type   Cable     Electrical connection output, nonection type   2.9 mm     Cable characteristic   Suitable for energy chains     Cable diameter   2.9 m     Cable diameter tolerance   4.0.1 mm     Type of mounting   With through-hole     Pneumatic connection, port 1   For tubing                     |   | • • •                                 |
| LABS (PWIS) conformity       VDMA24364-B1/B2-L         Media temperature       0 °C50 °C         Sound pressure level at nominal operating pressure       64 dB(A)         Degree of protection       IP40         Ambient temperature       0 °C50 °C         Product weight       74 g         Operating voltage range, DC sensor       18 W30 V         Pressure measuring range       -0.1 MPa0 MPa<br>-1 bar0 bar         -1 bar0 bar       -1 bar0 bar         -1 bar0 bar       -1 bar0 bar         -1 bar0 bar       -1 bar0 pai         Electrical connection input, function       Ejector pulse<br>Vacuum generation         Electrical connection input, number of connections/cores       2         Input electrical connection output, number of connections/cores       2         Electrical connection output, function       Sensor         Electrical connection output, number of connections/cores       3         Cable connection output, number of connections/cores       3         Electrical connection output, number of connections/cores       3         Cable connection output, number of connections/cores       3         Cable connection output, number of connections/cores       3         Cable connection output, number   |   |                                       |
| Media temperature     0 °C50 °C       Sound pressure level at nominal operating pressure     64 dB(A)       Degree of protection     IP40       Ambient temperature     0 °C50 °C       Product weight     74 g       Operating voltage range, DC sensor     18 V30 V       Pressure measuring range     0.1 M.Pa0 MPa       -1 bar0 bar     -1 bar0 bar       -1 bar0 bar     -2 bar0 psi       Electrical connection input, connection type     2 xp lug connector       Electrical connection input, connection type     2 xp lug connector       Electrical connection output, nonnting type     Snap-locking       Electrical connection output, function     Sensor       Electrical connection output, connector system     Open end       Electrical connection output, number of connections/cores     3       Cable characteristic     Suitable for energy chains       Cable diameter tolerance     ± 0.1 mm       Cable length     2.5 m  |   |                                       |
| Sound pressure level at nominal operating pressure       64 dB(A)         Degree of protection       IP40         Ambient temperature       0 °C50 °C         Product weight       Z4 g         Operating voltage range, DC sensor       18 V30 V         Pressure measuring range       0.1.MPa0 MPa<br>-1.har0 bar<br>-1.4.5 psi0 psi         Electrical connection input, function       Ejector pulse<br>Vacuum generation         Electrical connection input, connection type       2x plug connector         Electrical connection input, connector system       Connection pattern H         Electrical connection output, number of connections/cores       2         Electrical connection output, function       Sensor         Electrical connection output, function       Sensor         Electrical connection output, connector system       Open end         Electrical connection output, connector/system       Open end         Electrical connection output, number of connections/cores       3         Cable characteristic       Suitable for energy chains         Cable diameter       2.9 mm         Cable diameter       2.9 mm         Cable diameter       2.5 m         Nominal cross section conductor       0.14 mm <sup>2</sup> Type of mounting                           |   | · · · · · · · · · · · · · · · · · · · |
| Degree of protection       IP40         Ambient temperature       0 °C50 °C         Product weight       74 g         Operating voltage range, DC sensor       18 V30 V         Pressure measuring range       -0.1 MPa0 MPa         -1 bar0 bar       -1 bar0 bar         -1 bar0 bar       -1 bar         -1 bar0 bar       -1 bar         -1 bar0 bar       -1 bar   |   |                                       |
| Ambient temperature0 °C50 °CProduct weight74 gOperating voltage range, DC sensor18 V30 VPressure measuring range0.1 MPa0 MPa<br>-1 har0 bar<br>-14.5 psl0 psiElectrical connection input, functionEjector pulse<br>Vacuum generationElectrical connection input, connector type2x plug connectorElectrical connection input, connector systemConnection pattern HElectrical connection input, connector systemConnection pattern HElectrical connection output, functionSensorElectrical connection output, functionSensorElectrical connection output, functionSensorElectrical connection output, connector systemOpen endElectrical connection output, connector systemOpen endElectrical connection output, connections/cores3CableSuitable for energy chainsCable diameter2.9 mmCable diameter2.9 mmCable diameter2.5 mNominal cross section conductor0.14 mm²Type of mountingWith through-holePneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connectionGreyMaterial connection treadPOMNote on materialsNBRMaterial receiver nozzlePOMMaterial receiver nozzlePOMMaterial receiver nozzlePOMMaterial receiver nozzlePOMMaterial coble sheathPVC   |   |                                       |
| Product weight   74 g     Operating voltage range, DC sensor   18 V30 V     Pressure measuring range   -0.1 MPa0 bar<br>-1 bar0 bar<br>-14.5 psi0 psi     Electrical connection input, function   Ejector pulse<br>Vacuum generation     Electrical connection input, connector system   Connection pattern H     Electrical connection input, number of connections/cores   2     Iput electrical connection output, function   Sensor     Electrical connection output, function system   Open end     Electrical connection output, function   Sensor     Cable diameter   2.9 mm     Cable diameter   2.9 mm     Cable diameter   0.1 mm     Cable diameter tolerance   40.1 mm²     Type of mounting   With through-hole     Pneumatic connection, port 1   For tubing outer diameter of 4 mm     Pneumatic connection, port 3   Open silencer     Vacum connection   Grey   |   |                                       |
| Operating voltage range, DC sensor       18 V30 V         Pressure measuring range       -0.1 MPa 0 MPa<br>-14.5 psi0 psi         Electrical connection input, function       Ejector pulse<br>Vacuum generation         Electrical connection input, connector type       2x plug connector         Electrical connection input, connector system       Connection pattern H         Electrical connection onput, connector system       Connection pattern H         Electrical connection onput, function       Sensor         Electrical connection output, function       Sensor         Electrical connection output, function       Sensor         Electrical connection output, connector system       Open end         Electrical connection output, connector system       Open end         Electrical connection output, number of connections/cores       3         Cable diameter       2.9 mm         Cable diameter       2.9 mm         Cable diameter       2.9 mm         Cable length       2.5 m         Nominal cross section conductor       0.14 mm²         Type of mounting       With through-hole         Pneumatic connection, port 1       For tubing outer diameter of 4 mm         Cable sheath colour       Grey         Material seals <td< td=""><td></td><td></td></td<> |   |                                       |
| Pressure measuring range     -0.1 MPa0 MPa       -1 bar0 bar     -14.5 psi0 psi       Electrical connection input, function     Ejector pulse       Vacuum generation     2x plug connector       Electrical connection input, connection type     2x plug connector       Electrical connection input, connector system     Connection pattern H       Electrical connection output, function     Sensor       Electrical connection output, function     Sensor       Electrical connection output, connector system     Open end       Electrical connection output, connector system     Open end       Electrical connection output, number of connections/cores     3       Cable characteristic     Suitable for energy chains       Cable diameter     2.9 mm       Cable diameter tolerance     ± 0.1 mm       Cable ength     2.5 m       Nominal cross section conductor     0.14 mm²       Type of mounting     With through-hole       Pneumatic connection, port 3     Open silencer       Vacuum connection     Grey       Material connection     Grey       Material connection     Grey       Material seals     NBR       Material seals     NBR   |   |                                       |
| 1 bar 0 bar-14.5 psi0 psiElectrical connection input, functionEjector pulse<br>Vacuum generationElectrical connection input, connector systemConnection pattern HElectrical connection input, number of connections/cores2Input electrical connection output, functionSensorElectrical connection output, connector systemCableElectrical connection output, functionSensorElectrical connection output, connector systemOpen endElectrical connection output, number of connections/cores3Cable characteristicSuitable for energy chainsCable diameter2.9 mmCable diameter tolerance\$0.1 mmCable length2.5 mNominal cross section conductor0.14 mm²Type of mountingWith through-holePneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connectionGreyMaterial connectionGreyMaterial sealsNBRMaterial sealsNBRMaterial filterPOMMaterial chausingPA-reinforcedMaterial cable sheathPVC  | Operating voltage range, DC sensor                        | 18 V30 V                              |
| 14.5 psi0 psiElectrical connection input, functionEjector pulse<br>Vacuum generationElectrical connection input, connecton type2x plug connectorElectrical connection input, connector systemConnection pattern HElectrical connection input, number of connections/cores2Input electrical connection, mounting typeSnap-lockingElectrical connection output, functionSensorElectrical connection output, connection typeCableElectrical connection output, connection systemOpen endElectrical connection output, number of connections/cores3Cable characteristicSuitable for energy chainsCable characteristicSuitable for energy chainsCable diameter2.9 mmCable diameter2.9 mmCable diameter tolerancee.0.1 mmCable for mountingWith through-holeNominal cross section conductor0.14 mm <sup>3</sup> Type of mountingWith through-holePneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connection, port 3Open silencerVacuum connectionGreyMaterial connection threadPOMNote on materialsRoHS-compliantMaterial sealsNBRMaterial sealsPOMMaterial housingPA-reinforcedMaterial coalse heathPOM   | Pressure measuring range                                  |                                       |
| Electrical connection input, functionEjector pulse<br>Vacuum generationElectrical connection input, connector type2x plug connectorElectrical connection input, number of connections/cores2Input electrical connection, mounting typeSnap-lockingElectrical connection output, functionSensorElectrical connection output, connector systemOpen endElectrical connection output, connections/cores3CableSuitable for energy chainsCable diameterSuitable for energy chainsCable diameter2.9 mmCable diameter2.9 mmCable diameter2.9 mmCable length2.5 mNominal cross section conductor0.14 mm²Type of mountingWith through-holePneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connection, port 3Open silencerVacuum connectionFor tubing outside diameter of 4 mmCable sheath colourGreyMaterial connection threadPOMNaterial sealsNBRMaterial sealsNBRMaterial sealsNBRMaterial housingPA-reinforcedMaterial colous nogenPOMMaterial colous nogenPA-reinforced  |   |                                       |
| Vacuum generationElectrical connection input, connection type2x plug connectorElectrical connection input, connection systemConnection pattern HElectrical connection, mounting typeSnap-lockingElectrical connection, mounting typeSnap-lockingElectrical connection output, functionSensorElectrical connection output, connector systemOpen endElectrical connection output, number of connections/cores3CableSuitable for energy chainsCable diameter2.9 mmCable diameter2.9 mmCable length2.5 mNominal cross section conductor0.14 mm²Type of mountingWith through-holePneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connection, port 3Open silencerVacuum connectionGreyMaterial connection ptreadPOMNote on materialsNBRMaterial receiver nozzlePOMMaterial filterPOMMaterial housingPA-reinforcedMaterial colusPA-reinforcedMaterial colusPA-reinforced  | Electrical connection input, function                     |                                       |
| Electrical connection input, connector systemConnection pattern HElectrical connection input, number of connections/cores2Input electrical connection, mounting typeSnap-lockingElectrical connection output, functionSensorElectrical connection output, connector typeCableElectrical connection output, connector systemOpen endElectrical connection output, number of connections/cores3Cable characteristicSuitable for energy chainsCable diameter2.9 mmCable diameter2.9 mmCable length2.5 mNominal cross section conductor0.14 mm²Type of mountingWith through-holePneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connectionGreyVacuum connectionGreyMaterial connecting threadPOMNote on materialsRoHS-compliantMaterial sealsNBRMaterial filterPOMMaterial filterPOMMaterial sheathPVC   |   |                                       |
| Electrical connection input, number of connections/cores     2       Input electrical connection, mounting type     Snap-locking       Electrical connection output, function     Sensor       Electrical connection output, connection type     Cable       Electrical connection output, connector system     Open end       Electrical connection output, number of connections/cores     3       Cable characteristic     Suitable for energy chains       Cable diameter     2.9 mm       Cable diameter tolerance     ± 0.1 mm       Cable length     2.5 m       Nominal cross section conductor     0.14 mm²       Type of mounting     With through-hole       Pneumatic connection, port 1     For tubing outer diameter of 4 mm       Pneumatic connection     Grey       Vacuum connection     Grey       Material connecting thread     POM       Note on materials     NBR       Material seals     NBR       Material filter     POM       Material neceiver nozzle     POM       Material nousing     PA-reinforced       Material coale sheath     PVC   | Electrical connection input, connection type              | 2x plug connector                     |
| Input electrical connection, mounting typeSnap-lockingElectrical connection output, functionSensorElectrical connection output, connection typeCableElectrical connection output, connector systemOpen endElectrical connection output, number of connections/cores3Cable characteristicSuitable for energy chainsCable diameter2.9 mmCable diameter tolerance± 0.1 mmCable length2.5 mNominal cross section conductor0.14 mm²Type of mountingWith through-holePneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connectionGreyVacuum connectionGreyMaterial connecting threadPOMNote on materialsRoHS-compliantMaterial sealsNBRMaterial filterPOMMaterial filterPOMMaterial colusingPA-reinforcedMaterial colus sheathPVC  | Electrical connection input, connector system             | Connection pattern H                  |
| Electrical connection output, functionSensorElectrical connection output, connection typeCableElectrical connection output, number of connections/cores3Cable characteristicSuitable for energy chainsCable diameter2.9 mmCable diameter tolerance± 0.1 mmCable length2.5 mNominal cross section conductor0.14 mm²Type of mountingWith through-holePneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connectionFor tubing outer diameter of 4 mmCable sheath colourGreyMaterial sealsNBRMaterial receiver nozzlePOMMaterial filterPOMMaterial filterPOMMaterial coble sheathPVC  | Electrical connection input, number of connections/cores  | 2                                     |
| Electrical connection output, connection typeCableElectrical connection output, connector systemOpen endElectrical connection output, number of connections/cores3Cable characteristicSuitable for energy chainsCable diameter2.9 mmCable diameter tolerance± 0.1 mmCable length2.5 mNominal cross section conductor0.14 mm²Type of mountingWith through-holePneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connectionGreyVacuum connectionGreyMaterial connecting threadPOMNote on materialsRoHS-compliantMaterial receiver nozzlePOMMaterial filterPOMMaterial filterPOMMaterial coble sheathPVC  | Input electrical connection, mounting type                | Snap-locking                          |
| Electrical connection output, connector systemOpen endElectrical connection output, number of connections/cores3Cable characteristicSuitable for energy chainsCable diameter2.9 mmCable diameter tolerance± 0.1 mmCable length2.5 mNominal cross section conductor0.14 mm²Type of mountingWith through-holePneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connectionFor tubing outside diameter of 4 mmCable sheath colourGreyMaterial connecting threadPOMNote on materialsNBRMaterial receiver nozzlePOMMaterial filterPOMMaterial filterPOMMaterial colus sheathPVC  | Electrical connection output, function                    | Sensor                                |
| Electrical connection output, number of connections/cores3Cable characteristicSuitable for energy chainsCable diameter2.9 mmCable diameter tolerance± 0.1 mmCable length2.5 mNominal cross section conductor0.14 mm²Type of mountingWith through-holePneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connection, port 3Open silencerVacuum connectionGreyMaterial connecting threadPOMNote on materialsRoHS-compliantMaterial receiver nozzlePOMMaterial filterPOMMaterial filterPOMMaterial cable sheathPVC   | Electrical connection output, connection type             | Cable                                 |
| Cable characteristicSuitable for energy chainsCable diameter2.9 mmCable diameter tolerance± 0.1 mmCable length2.5 mNominal cross section conductor0.14 mm²Type of mountingWith through-holePneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connection, port 3Open silencerVacuum connectionFor tubing outside diameter of 4 mmCable sheath colourGreyMaterial connecting threadPOMNote on materialsNBRMaterial receiver nozzlePOMMaterial filterPOMMaterial filterPOMMaterial able sheathPVC   | Electrical connection output, connector system            | Open end                              |
| Cable diameter2.9 mmCable diameter tolerance± 0.1 mmCable length2.5 mNominal cross section conductor0.14 mm²Type of mountingWith through-holePneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connection, port 3Open silencerVacuum connectionFor tubing outside diameter of 4 mmCable sheath colourGreyMaterial connecting threadPOMNote on materialsNBRMaterial receiver nozzlePOMMaterial filterPOMMaterial filterPOMMaterial housingPA-reinforcedMaterial cable sheathPVC   | Electrical connection output, number of connections/cores | 3                                     |
| Cable diameter tolerance± 0.1 mmCable length2.5 mNominal cross section conductor0.14 mm²Type of mountingWith through-holePneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connection, port 3Open silencerVacuum connectionFor tubing outside diameter of 4 mmCable sheath colourGreyMaterial connecting threadPOMNote on materialsRoHS-compliantMaterial receiver nozzlePOMMaterial filterPOMMaterial housingPA-reinforcedMaterial cable sheathPVC  | Cable characteristic                                      | Suitable for energy chains            |
| Cable length2.5 mNominal cross section conductor0.14 mm²Type of mountingWith through-holePneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connection, port 3Open silencerVacuum connectionFor tubing outside diameter of 4 mmCable sheath colourGreyMaterial connecting threadPOMNote on materialsRoHS-compliantMaterial receiver nozzlePOMMaterial filterPOMMaterial housingPA-reinforcedMaterial cable sheathPVC  | Cable diameter  | 2.9 mm                                |
| Nominal cross section conductor0.14 mm²Type of mountingWith through-holePneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connection, port 3Open silencerVacuum connectionFor tubing outside diameter of 4 mmCable sheath colourGreyMaterial connecting threadPOMNote on materialsRoHS-compliantMaterial receiver nozzlePOMMaterial filterPOMMaterial filterPOMMaterial housingPA-reinforcedMaterial cable sheathPVC   | Cable diameter tolerance                                  | ± 0.1 mm                              |
| Type of mountingWith through-holePneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connection, port 3Open silencerVacuum connectionFor tubing outside diameter of 4 mmCable sheath colourGreyMaterial connecting threadPOMNote on materialsRoHS-compliantMaterial sealsNBRMaterial receiver nozzlePOMMaterial filterPOMMaterial cable sheathPOMMaterial cable sheathPOMMaterial cable sheathPOMMaterial fulterPOMMaterial cable sheathPVC  | Cable length  | 2.5 m                                 |
| Pneumatic connection, port 1For tubing outer diameter of 4 mmPneumatic connection, port 3Open silencerVacuum connectionFor tubing outside diameter of 4 mmCable sheath colourGreyMaterial connecting threadPOMNote on materialsRoHS-compliantMaterial sealsNBRMaterial receiver nozzlePOMMaterial filterPOMMaterial colus sheathPOMMaterial colus sheathPOMMaterial colus sheathPOMMaterial colus sheathPOMMaterial colus sheathPOMMaterial colus sheathPOMMaterial colus sheathPOM   | Nominal cross section conductor                           | 0.14 mm <sup>2</sup>                  |
| Pneumatic connection, port 3Open silencerVacuum connectionFor tubing outside diameter of 4 mmCable sheath colourGreyMaterial connecting threadPOMNote on materialsRoHS-compliantMaterial sealsNBRMaterial receiver nozzlePOMMaterial filterPOMMaterial housingPA-reinforcedMaterial cable sheathPVC   | Type of mounting  | With through-hole                     |
| Vacuum connectionFor tubing outside diameter of 4 mmCable sheath colourGreyMaterial connecting threadPOMNote on materialsRoHS-compliantMaterial sealsNBRMaterial receiver nozzlePOMMaterial filterPOMMaterial housingPA-reinforcedMaterial cable sheathPVC  | Pneumatic connection, port 1                              | For tubing outer diameter of 4 mm     |
| Cable sheath colourGreyMaterial connecting threadPOMNote on materialsRoHS-compliantMaterial sealsNBRMaterial receiver nozzlePOMMaterial filterPOMMaterial housingPA-reinforcedMaterial cable sheathPVC  | Pneumatic connection, port 3                              | Open silencer                         |
| Material connecting threadPOMNote on materialsRoHS-compliantMaterial sealsNBRMaterial receiver nozzlePOMMaterial filterPOMMaterial housingPA-reinforcedMaterial cable sheathPVC   | Vacuum connection   | For tubing outside diameter of 4 mm   |
| Note on materialsRoHS-compliantMaterial sealsNBRMaterial receiver nozzlePOMMaterial filterPOMMaterial housingPA-reinforcedMaterial cable sheathPVC  | Cable sheath colour                                       | Grey                                  |
| Note on materialsRoHS-compliantMaterial sealsNBRMaterial receiver nozzlePOMMaterial filterPOMMaterial housingPA-reinforcedMaterial cable sheathPVC  | Material connecting thread                                | РОМ                                   |
| Material seals   NBR     Material receiver nozzle   POM     Material filter   POM     Material housing   PA-reinforced     Material cable sheath   PVC  |   | RoHS-compliant                        |
| Material filter   POM     Material housing   PA-reinforced     Material cable sheath   PVC  | Material seals  |                                       |
| Material filter   POM     Material housing   PA-reinforced     Material cable sheath   PVC  | Material receiver nozzle                                  | РОМ                                   |
| Material housing   PA-reinforced     Material cable sheath   PVC  |   |                                       |
| Material cable sheath PVC   |   |                                       |
|   |   |                                       |
| דאמנטומן מטומסוווב סטובייי דער  | Material adjusting screw                                  | Steel                                 |

| Feature                     | Value                   |
|-----------------------------|-------------------------|
| Material silencer           | PA-reinforced<br>PE     |
| Material screws             | Steel                   |
| Material transmitter nozzle | Wrought aluminium alloy |