## Vacuum generator OVEM-30-H-C-QO-CE-N-1PD Part number: 8070097



## **Data sheet**

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## General operating condition

Feature	Value
Nominal width of Laval nozzle	3 mm
Width dimension	36 mm
Muffler construction type	Open
Mounting position	Any
Ejector characteristics	High vacuum Standard
Grade of filtration	40 µm
Manual override	Non-detenting Additionally via operating buttons
Integrated function	Ejector pulse valve, electric Flow control Shut off valve, electric Compressed air filter Air saving function, electrical Non-return valve Pneumatic muffler open Vacuum switch
Structural design	Modular
Short-circuit protection	yes
Measured variable	Relative pressure
Measuring principle	Piezoresistive
Switching element function	N/C contact N/O contact
Switching function	Window comparator Threshold value comparator
Symbol	00992094
Valve function	Closed
Reverse polarity protection	for all electrical connections
Switching input to standard	IEC 61131-2
Display type	4-character alphanumeric Back-lit LCD
Display range	-0.999 bar 0 bar
Displayable unit(s)	bar
Setting range hysteresis	-0.9 bar 0 bar
Setting options	Via display and pushbuttons
Switching position indication	LCD
Switching status indication	Optical
Setting range threshold value	-0.999 bar 0 bar
Operating pressure	2 bar 8 bar

## **FESTO**

Abs. vacuum         93 %           Nominal operating pressure         6 kar           Max. suction rate with respect to introsphere         181 l min           Air supply time at nominal operating pressure         0.2 s           Dury cycle         100%           Dury cycle         100%           Dury cycle         100%           Max. output current         20 mA           Max. output current         0.1 mA           Switching output         PMP           Voltage drop         24 V           Coll characteristics         24 V Oc. low-current phase 0.3 W, high-current phase 2.55 W           Switching output         PMP           Voltage drop         24 V           Coll characteristics         24 V Oc. low-current phase 0.3 W, high-current phase 2.55 W           Surge resistance         0.8 kV           Contradination level         3           Certification         KC tomplance mark           Cult car-lateid (01)         KL per EU ENC directive           UKCA marking (see declaration of conformity)         KL per EU ENC directive           MIX Additing feet declaration of conformity)         KL per EU ENC directive           UKCA marking (see declaration of conformity)         KL per EU ENC directive           UKCA marking (see declarati	Feature	Value
Nominal operating pressure         6 bar           Max. suchting and with respect to atmosphere         181 //min           Max. Suchting voltage range         0.2 a           Did y cycle         100%           Indicative protective circuit         Adapted to MZ, MY and ME colis           Indicative protective circuit         Adapted to MZ, MY and ME colis           Indicative protective circuit         Adapted to MZ, MY and ME colis           Max. output current         00 mA           Besidual current         0.1 mA           Stricthing output         PAP           Voltage dop         24 V Oc.1ow current phase 0.3 W, high current phase 2.55 W           Sugge resistance         0.8 W           Overload protection         Available           Cantamination level         3           Cartification         RCM compliance mark.           Cill characters         KC ENC           CE marking Gee declaration of conformity)         A beref UR directive           MCA marking Gee declaration of conformity)         K Devication Stress           LASS OW/Si Conformity         VDMA2434 current phase 3.8           Diperating medium         Compressed air as per ISO 8873-1:2010 [7:4:4]           Operation with oil ubrication not possible         Corosion restistairas of the and the addition on operating and pil	Operating pressure for max. vacuum	4 bar
Max. succion rate with respect to atmosphere         181 l/min           Air supply time at nominal operating pressure         0.2 s           Duty cycle         100%           Insulation voltage mage         20.4 V 27.6 V           Duty cycle         100%           Insulation voltage         50 V           Max. cutput current         670 mA           Max. cutput current         00 mA           Recision (current)         0.1 mA           Switching output         PMP           Voltage drop         42 V           Coll characteristics         24 V OC: low-current phase 0.3 W, high-current phase 2.55 W           Swiger ensistance         0.8 W           Overload protection         Available           Contamination level         3           Cartanication (conformity)         As per ELB K directive           UKK Amarking (see declaration of conformity)         As per ELB K directive           UKK Amarking (see declaration of conformity)         10 UK Instructions for EMC Coperating works and the output of the outp	Max. vacuum	93 %
Air supply time at nominal operating pressure     0.2 s       DC operating voltage range     20.4 V 27.6 V       Duty cycle     100%       Inductive protective circuit     Adapted to MZ, MY and ME coils       Insulation voltage     50 V       Idic current     470 mA       Max. output current     100 mA       Switching output     PNP       Voltage dop     2 V       Coll characteristics     24 V OC: low-current phase 0.3 W, high-current phase 2.55 W       Surge resistance     0.8 W       Overload protection     Available       Contamination level     3       Certification     Cit (Mir contaminet)       Cit (Marcateris     KC EMC       CE marking (see declaration of conformity)     To UK instructions for EMC       Operating medium     Compressed air as per ISO 8573-12010 (7x44)       Consion resistance class (CRC)     2 - Moderate corrosion stress       CLAS marking (see declaration of conformity)     To UK instructions for EMC       Operating medium     Operation withon illuvication net possible       Corrison resistance class (CRC)     2 - Moderate corrosion stress       CLAS (SWK) conformity     VDMA24364 cone III       Protection and operating pressure     7 dB(W)       Dase evel at nominal operating pressure     7 dB(W)       Degree of protection <td< td=""><td>Nominal operating pressure</td><td>6 bar</td></td<>	Nominal operating pressure	6 bar
DC operating voltage range     20.4 V 27.6 V       Dury cycle     10%       Inductive protective circuit     Adapted to MZ, MV and ME colls       Insulation voltage     50 V       Vide current     470 mA       Max. output current     100 mA       Besidual current     0.1 mA       Switching output     PNP       Voltage drop     42 V       Coll characteristics     24 V O: low-current phase 0.3 W, high-current phase 2.55 W       Oak W     Owerload protection       Available     Contamination level       Contrainition level     3       Certification     RCM compliance mark club us - Listed (Q1)       KC characters     KC EMC       Certification     RCM compliance mark club us - Listed (Q1)       Contamination level     3       Greating Gee declaration of conformity)     A per EU EMC directive       UKCA marking Gee declaration of conformity)     Conformessed air as per SID 5873-1201(7:44)       Information on operating and plot media     Operation with oil hubrication not possible       Corrosion resistance class (CR)     2 - Moderate corrosion stress       LBS (PWLS) conformity     VDMA2364 zone III       Temperature of medium     O*C 50 *C       Degree of protection     IP65       Protection class     III       Ambient temperatu	Max. suction rate with respect to atmosphere	181 l/min
Duty cycle         10%           Inductive protective circuit         Adapted to WZ, MY and ME coils           Insulation voltage         50 V           Idle current         470 mA           Max. output current         0.1 mA           Switching output         PNP           Voltage drop         42 V           Oil characteristics         24 V DC. low current phase 0.3 W, high-current phase 2.55 W           Surge resistance         0.8 kV           Overlaad protection         Available           Cantamination level         3           Certification         cll us - Listed (QL)           KC haracters         KC EMC           Canativing (see declaration of conformity)         As per EU EMC directive           UKCA marking (see declaration of conformity)         Ka per EU EMC directive           UKCA marking (see declaration of conformity)         Ka per EU EMC directive           UKCA marking (see declaration of conformity)         Ka per EU EMC directive           UKCA marking (see declaration of conformity)         Ka Us instructions for EMC           Correling and pilot media         Operation with ollowication prossible           Correling medium         0         C	Air supply time at nominal operating pressure	0.2 s
inductive protective circuit Adapted to NZ, MY and ME colls instulation voltage 50 V idle current 70 mA Max. output current 100 mA Residual current 100 mA Residual current 100 mA Residual current 100 mA Coll characteristics 24 V DC: low current phase 0.3 W, high-current phase 2.55 W Coll characteristics 24 V DC: low current phase 0.3 W, high-current phase 2.55 W Overload protection 25 W Overload protection 26 KC characters 27 MA Coll characteristics 28 KC compliance mark 29 CLU us - Listed (OL) 20 KC characters 29 CLU us - Listed (OL) 20 CLU us - Listed (OL) 21 Moderation of conformity) 26 UE MC directive 27 Moderation of conformity) 27 UVM22462 as per ISU EMC directive 28 Compressed in a per ISO 8873-1:2010 (7:4:4) 21 Moderate corrosion stress 23 Moderate corrosion stress 24 Moderate corrosion stress 24 Moderate corrosion stress 24 Moderate corrosion stress 24 Moderate corrosion stress 25 MN 25 %% 26 %% 26 %% 26 %% 26 %% 26 %% 27 %%	DC operating voltage range	20.4 V 27.6 V
insulation voltage         50 V           Idle current         C70 mA           Max. output current         100 mA           Residual current         0.1 mA           Switching output         PNP           Voltage drop         2 V           Coil characteristics         24 V DC, low current phase 0.3 W, high-current phase 2.55 W           Surge resistance         0.8 kV           Overload protection         Available           Contamination level         3           Certification         cll us - Listed (01)           KC Ender (01)         As per EU EMC directive           Certification         Contomisting medium           Corrison resistance class (RC)         2. Moderate corresion stress           UKCA marking (see declaration of conformity)         To UK instructions for EMC           Operating medium         Compressed air as per SUB 873-1:2010 [7:4:4]           Information on operating and pilot media         Operation with oil lubrication not possible           Corrosion resistance class (CK)         2. Moderate corrosion stress           LABS (PMS) conformity         VDMA2364 zone III           Temperature of medium         0 °C 50 °C           Relabe air humidity         5 88 %           Noise level at nominal operating pressure         75 dB(O) </td <td>Duty cycle</td> <td>100%</td>	Duty cycle	100%
idle current       C70 mA         Max. output current       100 mA         Residual current       0.1 mA         Switching output       PNP         Voltage drop       -2 V         Coll characteristics       24 V DC: low-current phase 0.3 W, high-current phase 2.55 W         Surge resistance       0.8 kV         Contamination tevel       3         Cartification       RCM compliance mark.         Cill uss - Listed (0L)       KC EMC         CE marking (see declaration of conformity)       As per EL EMC directive         UKCA marking (see declaration of conformity)       To Uk instructions for EMC         Operating medium       Compressed air as per ISO 8573 1:2010 [7:4:4]         Information on operating and pilot media       Operating medium         Corrosion resistance class (CKC)       2. Moderate consoin setterses         LABS (PWIS) conformity       VDMA24364 zone III         Temperature of medium       0*C 50 %C         Noise level at nominal operating pressure       75 dB(A)         Degree of protection       IP65         Protection Ass       III         Ambient temperature       0*C 50 %C         Rest dipting torque       2.8 Km with internal thread         Pressure measuring range       1 bar 0 bar </td <td>Inductive protective circuit</td> <td>Adapted to MZ, MY and ME coils</td>	Inductive protective circuit	Adapted to MZ, MY and ME coils
Max. output current         100 mA           Residual current         0.1 mA           Witching output         PMP           Voltage drop         22 V           Coll characteristics         24 VDC: tow-current phase 0.3 W, high-current phase 2.55 W           Surge resistance         0.8 kV           Overload protection         Available           Contraination level         3           Certification         RCM compliance mark           Certification         RCM compliance mark           Cartaring (see declaration of conformity)         As per EU EM clinetive           UKCA marking (see declaration of conformity)         To UK instructions for EMC           Operating medium         Comparising and plot media           Information on operating and plot media         Operation with oil Lubrication not possible           Corrosion resistance class (CRC)         2. Moderate corrosion stress           LABS (PMS) conformity         VDMA2364 zone III           Temperature of medium         0°C 50 °C           Relative air humidity         5.85 %           Noise level at nominal operating pressure         75 dB(A)           Degree of protection         IP65           Protection class         III           Ambitent temperature of medium         0°C 50 °C	Insulation voltage	50 V
Residual current       0.1 mA         Switching output       PNP         Voltage drop       27 V         Coll characteristics       24 V DC: low-current phase 0.3 W, high-current phase 2.55 W         Surge resistance       0.8 kV         Overload protection       Available         Contamination level       3         Certification       RCM compliance mark         Cettification       RCM compliance mark         CET marking (see declaration of conformity)       As per EU EMC directive         UKCA marking (see declaration of conformity)       To UK instructions for EMC         Operating medium       Compressed air as per ISO 8573-1:2010 [7:4:4]         Information on operating and pilot media       Operation with oil Ubrication not possible         Corrosion resistance class (CRC)       2 Moderate corrosion stress         LABS (PWIS) Conformity       VDMA23465 area III         Temperature of medium       0°C 50°C         Nobse level at nomial operating pressure       75 dB(A)         Degree of protection       IP65         Protection class       III         Arbitenting regreature       0.8 km with internal thread         2.5 km with through-hole       25 g         Protection class       III         Restrict in sith set forq	Idle current	<pre></pre>
Switching output         PNP           Voltage drop         42 V           Coil characteristics         24 V OC: low-current phase 0.3 W, high-current phase 2.55 W           Surge resistance         0.8 kV           Overload protection         Available           Contamination level         3           Certification         RCM compliance mark cull us - Listed (01)           KC characters         KC EMC           CE marking (see declaration of conformity)         As per EU EMC directive           UKCA marking (see declaration of conformity)         To UK instructions for EMC           Operating medium         Operations in specification on operating and pilot media           Operation resistance class (CRC)         2. Moderate corrosion stress           LABS (PWIS) conformity         VDMA24364 zone III           Temperature of medium         0 °C 50 °C           Relative air humidity         5. 85 %           Noise level at nominal operating pressure         0 °C 50 °C           Protection         IP65           Protection class         III           Ambient temperature         0 °C 50 °C           Accuracy in ± % 15         3 % 15           Reproducibility, switching value FS         0.6 %           Intemperature of medium         0 FC 50 °C<	Max. output current	100 mA
Voltage drop         22 V           Coil characteristics         24 V DC: low-current phase 0.3 W, high-current phase 2.55 W           Surge resistance         0.8 kV           Overload protection         Available           Contamination level         3           Certification         RCM compliance mark           CLL us - Listed (01)         Ks EMC           KC characters         KC EMC           Caracteris         KC EMC           Caracteris         Compressed air as per ISD 8573-1:2010 [7:4:4]           Operating medium         Compressed air as per ISD 8573-1:2010 [7:4:4]           Operating medium         Compressed air as per ISD 8573-1:2010 [7:4:4]           Operating medium         Operation with oil lubrication not possible           Corrosion resistance class (RC)         2 - Moderate corrosion stress           LABS (PWIS) conformity         VDMA24364 zone III           Temperature of medium         O*C 50 *C           Relative air hominal operating pressure         75 dB(A)           Degree of protection         IP65           Protection class         III           Anbient temperature         O*C 50 *C           Max. tightening torque         2.6 Nm with internal thread           2.5 g         Pressure measuring range <t< td=""><td>Residual current</td><td>0.1 mA</td></t<>	Residual current	0.1 mA
Voltage drop       2 V         Coll characteristics       24 V DC: low-current phase 0.3 W, high-current phase 2.55 W         Surge resistance       0.8 kV         Overload protection       Available         Contamination level       3         Certification       RCM compliance mark c) U us - Listed (01)         KC characters       KC EMC         Caracting (see declaration of conformity)       As per EU EMC directive         UKCA marking (see declaration of conformity)       To UK instructions for EMC         Operating medium       Compressed air as per ISO 873-1:2010 [7:4:4]         Information on operating and pilot media       Operation with oil lubrication not possible         Corrsoin resistance class (CC)       2 - Moderate corrosion stress         LABS (PWIS) conformity       VDMA24364 zone III         Temperature of medium       0*C 50 *C         Relative air humidity       5-85 %         Noise level at nominal operating pressure       75 dB(A)         Degree of protection       IP65         Protection class       III         Aubient temperature       0*C 50 *C         Reproducibility, switching value F5       0.6 %         Reproducibility, switching value F5       0.6 %         Input switching logic       PMP (positive switching)	Switching output	PNP
Surge resistance         0.8 kV           Overlaad protection         Available           Contamination level         3           Contamination level         3           Certification         RCM compliance mark cUL us - Listed (01)           KC characters         CE EMC           CE marking (see declaration of conformity)         As per EU EMC directive           UKCA marking (see declaration of conformity)         To UK instructions for EMC           Operating medium         Compressed air as per ISO 8573-1:2010 [7:4:4]           Information on operating and pilot media         Operation with oil Ubrication not possible           Corrosion resistance class (CRC)         2 - Moderate corrosion stress           LABS (PMIS) conformity         VDM22354 zone III           Temperature of medium         0 *C 50 *C           Noise level at nominal operating pressure         75 dB(A)           Degree of protection         IP65           Protection class         III           Ambient temperature         0 *C 50 *C           Max. tightening torque         2.5 Ms with internal thread           2.5 Ms with internal thread         2.5 Ms           Protection class         III           Input switching logic         PMP (positive switching)           Electrical connection<	Voltage drop	≤2 V
Overload protection         Available           Contamination level         3           Certification         RCM compliance mark cUL us - Listed (OL)           KC characters         KC EMC           Cartance for any context of the end of conformity)         As per EU EMC directive           UKCA marking (see declaration of conformity)         To UK instructions for EMC           Operating medium         Compressed air as per ISO 8573-1:2010 [7:4:4]           Information on operating and pilot media         Operation with all lubrication not possible           Corrosion resistance class (CRC)         2 - Moderate corrosion stress           LASS (PMIS) conformity         VDM24364 zone III           Temperature of medium         0 °C 50 °C           Relative air humidity         5 - 85 %           Noise level at nominal operating pressure         75 dB(A)           Degree of protection         IP65           Protection class         III           Ambient temperature         0 °C 50 °C           Accuracy in ± % FS         3 %F5           Reproductibility, switching value FS         0 oS Mm with internal thread           Accuracy in ± % FS         3 %F5           Reproductibility, switching value FS         0 oS %           Input switching logic         PNP (positive switching) </td <td>Coil characteristics</td> <td>24 V DC: low-current phase 0.3 W, high-current phase 2.55 W</td>	Coil characteristics	24 V DC: low-current phase 0.3 W, high-current phase 2.55 W
Overload protection         Available           Contamination level         3           Certification         RCM compliance mark c UL us - Listed (OL)           KC characters         KC EMC           Cartariantian of conformity)         As per EU EMC directive           UKCA marking (see declaration of conformity)         To UK instructions for EMC           Operating medium         Compressed air as per ISO 8573-1:2010 [7:4:4]           Information on operating and pilot media         Operation with oil lubrication not possible           Corrosion resistance class (CRC)         2 - Moderate corrosion stress           LASS (PWIS) conformity         VDM24364 zone III           Temperature of medium         0 °C 50 °C           Relative air humidity         5 -85 %           Noise level at nominal operating pressure         75 dB(A)           Degree of protection         IP65           Protection class         III           Ambient temperature         0 °C 50 °C           Max. tightening torque         2.5 Mm with internal thread           2.5 VM with through-hole         25 g           Pressure measuring range         1 bar 0 bar           Accuracy in ± % FS         3 %FS           Reproductibility, switching value FS         0.6 %           Input switchin	Surge resistance	
Contamination level       3         Certification       RCM compliance mark c UL us - Listed (OL)         KC characters       KC EMC         Emarking (see declaration of conformity)       As per EU EMC directive         UKCA marking (see declaration of conformity)       To UK instructions for EMC         Operating medium       Compressed air as per ISO 8573-1:2010[7:4:4]         Information on operating and pilot media       Operation with oil lubrication not possible         Corrosion resistance class (CRC)       2 - Moderate corrosion stress         LABS (PWIS) conformity       VDM24364 zone III         Temperature of medium       0 °C 50 °C         Relative air humidity       5 -85 %         Noise level at nominal operating pressure       75 dB(A)         Degree of protection       IP65         Protection class       III         Mabient temperature       0 °C 50 °C         Max. tightening torque       0.8 Nm with internal thread         2.5 S g       Pressure measuring range         -1 bar 0 bar       Accuracy in ± % FS         Reproducibility, switching value FS       0.6 %         Input switching logic       PPM (positive switching)         Electrical connection       5 pin mi12x1         Plug       Protection against tampering	Overload protection	Available
Certification         RCM compliance mark cut us - Listed (0L)           KC characters         KC EMC           CE marking (see declaration of conformity)         As per EU EMC directive           UKCA marking (see declaration of conformity)         To UK instructions for FMC           Operating medium         Compressed air as per ISO 8573-1:2010 [7:4:4]           Information on operating and pilot media         Operation with oil lubrication not possible           Corrosion resistance class (CRC)         2 - Moderate corrosion stress           LABS (PWIS) conformity         VDMA24364 zone III           Temperature of medium         0 °C 50 °C           Relative air humidity         5 -85 %           Noise level at nominal operating pressure         75 dB(A)           Degree of protection         IP65           Protection class         III           Ambient temperature         0 °C 50 °C           Max. tightening torque         0.8 Nm with internal thread           2.5 Sg         9           Product weight         825 g           Product weight         825 g           Pressure measuring range         -1 bar 0 bar           Accuracy in ± % FS         3 %FS           Reproductibility, switching value FS         0.6 %           Input switching logic	Contamination level	
CE marking (see declaration of conformity)       As per EU EMC directive         UKCA marking (see declaration of conformity)       To UK instructions for EMC         Operating medium       Compressed air as per ISO 85731:2010 [7:4:4]         Information on operating and pilot media       Operation with oil lubrication not possible         Corrosion resistance class (CK.)       2: Moderate corrosion stress         LABS (PWIS) conformity       VDMA24364 zone III         Temperature of medium       0 °C 50 °C         Relative air humidity       5: 85 %         Noise level at nominal operating pressure       75 dB(A)         Degree of protection       IP65         Protection class       III         Ambient temperature       0 °C 50 °C         Max. tightening torque       2.8 Nm with internal thread         .2 NM with through-hole       2.5 Nm with internal thread         Presure measuring range       1 bar 0 bar         Accuracy in ± % FS       3% FS         Reproducibility, switching value FS       0.6 %         Input switching logic       PNP (positive switching)         Protection against tampering       PIN code         Type of mounting       QS-10         Pneumatic connection 1       QS-10         Pneumatic nuffler       ROHS-compliant </td <td>Certification</td> <td></td>	Certification	
UKCA marking (see declaration of conformity)       To UK instructions for EMC         Operating medium       Compressed air as per ISO 8573-1:2010 [7:4:4]         Information on operating and pilot media       Operation with oil lubrication ont possible         Corrosion resistance class (CRC)       2 - Moderate corrosion stress         LABS (PWIS) conformity       VDMA24364 zone III         Temperature of medium       0 °C 50 °C         Relative air humidity       5 - 85 %         Noise level at nominal operating pressure       75 dB(A)         Degree of protection       IP65         Protection class       III         Ambient temperature       0 °C 50 °C         Max. tightening torque       0.8 Nm with internal thread         2.5 Km with through-hole       25 g         Product weight       825 g         Presure measuring range       -1 bar 0 bar         Accuracy in ± % FS       0.6 %         Reproducibility, switching value FS       0.6 %         Input switching logic       PNP (positive switching)         Protection against tampering       PIN code         Type of mounting       With through-hole         With internal thread thread       With internal thread         With internal thread       With internal thread	KC characters	KC EMC
Operating medium         Compressed air as per ISO 8573-1:2010 [7:4:4]           Information on operating and pilot media         Operating with oil lubrication not possible           Corrosion resistance class (CRC)         2 - Moderate corrosion stress           LABS (PWIS) conformity         VDMA24364 zone III           Temperature of medium         0 °C 50 °C           Relative air humidity         5 - 85 %           Noise level at nominal operating pressure         75 dB(Å)           Degree of protection         IP65           Protection class         III           Ambient temperature         0 °C 50 °C           Max. tightening torque         0.8 Nm with internal thread           2.5 Nm with through-hole         25 Nm g           Pressure measuring range         -1 bar 0 bar           Accuracy in ±% FS         3 %FS           Reproducibility, switching value FS         0.6 %           Input switching logic         PNP (positive switching)           Electrical connection         5-pin M12x1 Plug           Protection against tampering         PIN code           Type of mounting         With through-hole With internal thread With accessories           Pneumatic connection 1         Q5-10           Pneumatic connection 3         Pneumatic connection 3	CE marking (see declaration of conformity)	As per EU EMC directive
Information on operating and pilot media       Operation with oil lubrication not possible         Corrosion resistance class (CRC)       2 - Moderate corrosion stress         LABS (PWIS) conformity       VDMA24364 zone III         Temperature of medium       0 °C 50 °C         Relative air humidity       5 - 85 %         Noise level at nominal operating pressure       75 dB(A)         Degree of protection       IP65         Protection class       III         Ambient temperature       0 °C 50 °C         Max. tightening torque       0.8 Nm with internal thread         2.5 Nm with through-hole       2.5 Nm with through-hole         Product weight       825 g         Pressure measuring range       -1 bar 0 bar         Accuracy in ± % FS       3 % FS         Reproducibility, switching value FS       0.6 %         Input switching logic       PNP (positive switching)         Electrical connection       S-pin M12x1 Plug         Protection against tampering       PIN code         Type of mounting       With through-hole With internal thread With internal thread With internal thread With internal thread         Vacuum connection 1       QS-10         Pneumatic connection 3       Pneumatic muffler         Vacuum connection 3       Rol45-compliant <td>UKCA marking (see declaration of conformity)</td> <td>To UK instructions for EMC</td>	UKCA marking (see declaration of conformity)	To UK instructions for EMC
Corrosion resistance class (CRC)       2 · Moderate corrosion stress         LABS (PWIS) conformity       VDMA24364 zone III         Temperature of medium       0 °C 50 °C         Relative air humidity       5 · 85 %         Noise level at nominal operating pressure       75 dB(A)         Degree of protection       IP65         Protection class       III         Ambient temperature       0 °C 50 °C         Max. tightening torque       0.8 Nm with internal thread         2.5 Nm with through-hole       Product weight         Pressure measuring range       -1 bar 0 bar         Accuracy in ± % FS       3 % FS         Reproducibility, switching value FS       0.6 %         Input switching logic       PNP (positive switching)         Electrical connection       5 · pin M12x1 Plug         Protection against tampering       PIN code         Type of mounting       With through-hole         With uncersolve       S · 10         Pneumatic connection 1       QS · 10         Pneumatic connection 3       Pneumatic muffler         Vacuum connection       QS · 10         Seals material       RNBR	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
LABS (PWIS) conformityVDMA24364 zone IIITemperature of medium0 °C 50 °CRelative air humidity5 - 85 %Noise level at nominal operating pressure75 dB(A)Degree of protectionIP65Protection classIIIAmbient temperature0 °C 50 °CMax. tightening torque0.8 Nm with internal thread 2.5 Nm with through-holeProduct weight825 gPressure measuring range-1 bar 0 bar Accuracy in ± % FSAccuracy in ± % FS0.6 %Input switching logicPNP (positive switching)Electrical connection5-pin Mi12x1 PlugProtection 1QS-10Pneumatic connection 1QS-10Pneumatic connection 3Pneumatic mufflerVacuum connectionQS-12Note on materialsRoHS-compliantSeals materialHNBR NBR	Information on operating and pilot media	Operation with oil lubrication not possible
Temperature of medium0 °C 50 °CRelative air humidity5 - 85 %Noise level at nominal operating pressure75 dB(A)Degree of protectionIP65Protection classIIIAmbient temperature0 °C 50 °CMax. tightening torque0.8 Nm with internal thread 2.5 Nm with through-holeProduct weight825 gPressure measuring range-1 bar 0 barAccuracy in ± % FS3 %FSReproducibility, switching value FS0.6 %Input switching logicPNP (positive switching)Electrical connection5-pin M12x1 PlugProtection against tamperingPIN codeType of mountingWith through-hole With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic mufflerVacuum connectionQS-12Note on materialsRoHS-compliantSeals materialHNBR NBR	Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Relative air humidity5 - 85 %Noise level at nominal operating pressure75 dB(A)Degree of protectionIP65Protection classIIIAmbient temperature0 °C 50 °CMax. tightening torque2.5 Nm with internal thread 2.5 Nm with through-holeProduct weight825 gPressure measuring range1 bar 0 barAccuracy in ± % FS3 %FSReproducibility, switching value FS0.6 %Input switching logicPNP (positive switching)Electrical connection5 -pin M12x1 PlugProtection against tamperingPIN codeType of mountingWith through-hole With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connectionS9-12Note on materialsRoHS-compliantSeals materialHNBR NBR	LABS (PWIS) conformity	VDMA24364 zone III
Noise level at nominal operating pressure75 dB(A)Degree of protectionIP65Protection classIIIAmbient temperature0 °C 50 °CMax. tightening torque0.8 Nm with internal thread 2.5 Nm with through-holeProduct weight825 gPressure measuring range-1 bar 0 barAccuracy in ± % FS3 %FSReproducibility, switching value FS0.6 %Input switching logicPNP (positive switching)Electrical connection5-pin M12x1 PlugType of mountingWith through-holeWith through-holeWith through-holePneumatic connection 1QS-10Pneumatic connection 3Poneumatic mufflerVacuum connection 3RoHS-compliantSeals materialHNBR NBR	Temperature of medium	0 °C 50 °C
Degree of protectionIP65Protection classIIIAmbient temperature0 °C 50 °CMax. tightening torque0.8 Nm with internal thread 2.5 Nm with through-holeProduct weight825 gPressure measuring range1 bar 0 barAccuracy in ± % FS3 % FSReproducibility, switching value FS0.6 %Input switching logicPNP (positive switching)Electrical connection5-pin M12x1 PlugProtection against tamperingPIN codeType of mountingWith through-hole With internal thread With internal thread With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic mattinesVacuum connectionQS-12Note on materialsRoHS-compliantSeals materialHNBR NBR	Relative air humidity	5 - 85 %
Protection class III Ambient temperature 0°C50°C Max. tightening torque 0.8 Nm with internal thread 2.5 Nm with through-hole Product weight 825 g Pressure measuring range -1 bar 0 bar Accuracy in ±%FS 3%FS Reproducibility, switching value FS 0.6 % Input switching logic PNP (positive switching) Electrical connection 5-pin M12x1 Plug Protection against tampering PIN code Type of mounting With through-hole With through-hole With through-hole With through-hole With through-hole With through-hole With through-hole With internal thread With accessories Pneumatic connection 1 Pneumatic connection 3 Vacuum connection QS-10 Pneumatic connection 3 Vacuum connection QS-12 Note on materials Seals material HNBR NBR	Noise level at nominal operating pressure	75 dB(A)
Ambient temperature0 °C 50 °CMax. tightening torque0.8 Nm with internal thread 2.5 Nm with through-holeProduct weight825 gPressure measuring range-1 bar 0 barAccuracy in ± % FS3 %FSReproducibility, switching value FS0.6 %Input switching logicPNP (positive switching)Electrical connection5-pin M12x1 PlugProtection against tamperingPIN codeType of mountingWith through-hole With internal thread With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic mufflerVacuum connectionQS-12Note on materialsRoHS-compliantSeals materialHNBR NBR	Degree of protection	IP65
Max. tightening torque0.8 Nm with internal thread 2.5 Nm with through-holeProduct weight825 gPressure measuring range-1 bar 0 barAccuracy in ± % FS3 %FSReproducibility, switching value FS0.6 %Input switching logicPNP (positive switching)Electrical connection5-pin M12x1 PlugProtection against tamperingPIN codeType of mountingWith through-hole With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic mufflerVacuum connectionQS-12Note on materialsRoHS-compliantSeals materialHNBR NBR	Protection class	
2.5 Nm with through-holeProduct weight825 gPressure measuring range-1 bar 0 barAccuracy in ± % FS3 %FSReproducibility, switching value FS0.6 %Input switching logicPNP (positive switching)Electrical connection5-pin M12x1 PlugProtection against tamperingPIN codeType of mountingWith through-hole With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic mufflerVacuum connectionQS-12Note on materialsRoHS-compliantSeals materialHNBR NBR	Ambient temperature	0 °C 50 °C
Pressure measuring range-1 bar 0 barAccuracy in ± % FS3 %FSReproducibility, switching value FS0.6 %Input switching logicPNP (positive switching)Electrical connection5-pin M12x1 PlugProtection against tamperingPIN codeType of mountingWith through-hole With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic mufflerVacuum connectionQS-12Note on materialsRoHS-compliantSeals materialHNBR NBR	Max. tightening torque	
Accuracy in ± % FS3 %FSReproducibility, switching value FS0.6 %Input switching logicPNP (positive switching)Electrical connection5-pin M12x1 PlugProtection against tamperingPIN codeType of mountingWith through-hole With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic mufflerVacuum connectionQS-12Note on materialsRoHS-compliantSeals materialHNBR NBR	Product weight	825 g
Reproducibility, switching value FS0.6 %Input switching logicPNP (positive switching)Electrical connection5-pin M12x1 PlugProtection against tamperingPIN codeType of mountingWith through-hole With internal thread With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic mufflerVacuum connectionQS-12Note on materialsRoHS-compliantSeals materialHNBR NBR	Pressure measuring range	-1 bar 0 bar
Input switching logicPNP (positive switching)Electrical connection5-pin M12x1 PlugProtection against tamperingPIN codeType of mountingWith through-hole With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic mufflerVacuum connectionQS-12Note on materialsRoHS-compliantSeals materialHNBR NBR	Accuracy in ± % FS	3 %FS
Electrical connection5-pin M12x1 PlugProtection against tamperingPIN codeType of mountingWith through-hole With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic mufflerVacuum connectionQS-12Note on materialsRoHS-compliantSeals materialHNBR NBR	Reproducibility, switching value FS	0.6 %
M12x1 PlugProtection against tamperingPIN codeType of mountingWith through-hole With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic mufflerVacuum connectionQS-12Note on materialsRoHS-compliantSeals materialHNBR NBR	Input switching logic	PNP (positive switching)
Type of mountingWith through-hole With internal thread With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic mufflerVacuum connectionQS-12Note on materialsRoHS-compliantSeals materialHNBR NBR	Electrical connection	M12x1
With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic mufflerVacuum connectionQS-12Note on materialsRoHS-compliantSeals materialHNBR NBR	Protection against tampering	PIN code
Pneumatic connection 3     Pneumatic muffler       Vacuum connection     QS-12       Note on materials     RoHS-compliant       Seals material     HNBR NBR	Type of mounting	With internal thread
Vacuum connection     QS-12       Note on materials     RoHS-compliant       Seals material     HNBR NBR	Pneumatic connection 1	QS-10
Note on materials     RoHS-compliant       Seals material     HNBR NBR	Pneumatic connection 3	Pneumatic muffler
Seals material HNBR NBR	Vacuum connection	QS-12
Seals material HNBR NBR	Note on materials	RoHS-compliant
Female nozzle material POM	Seals material	HNBR
	Female nozzle material	РОМ

Feature	Value
Compressed air filter material	Fabric PA Sintered steel
Material of filter housing	PA-reinforced
Housing material	Wrought aluminum alloy PA-reinforced
Material of adjusting screw	Steel
Muffler material	Wrought aluminum alloy POM PU foam
Material of screws	Steel
Inspection window material	РА
Material of plug housing	Brass, nickel-plated
Material of pin contacts	Brass, gold-plated
Material of pins	Steel
Material of jet nozzle	Wrought aluminum alloy
Material of keypad	TPE-U
Material of pneumatic fitting	Brass, nickel-plated