## Vacuum generator OVEM-20-H-C-QO-CE-N-2P Part number: 8070092



## **Data sheet**

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## General operating condition

Feature	Value
Nominal width of Laval nozzle	2 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**

Max. suction rate with respect to atmosphere     98 I/min       Air supply time at nominal operating pressure     0.2 4       O operating working renses     20.4 V 27.6 V       Duty cycle     100%       Inductive protective circuit     Adapted to MZ, MY and ME coils       Insulation vortage     50 V       Ide current     70 mA       Max. output current     0.1 mA       Switching output     2xPNP       Voltage drop     cl.5 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 circulus - Listed (QL)       KC haracters     KC EMC       Certarking (see declaration of conformity)     As per EU EMC directive       UKCA marking (see declaration of conformity)     To UK instructions for EMC       Operating workinol     Qreating workinol       Operating workinol     Qreating workinol       Operating workinol     Qreating workinol       Operating workinol     Qreating workinol <t< th=""><th>Feature</th><th>Value</th></t<>	Feature	Value
Nominal operating pressure     6 bat       Max. succinor rate with respect to atmosphere     98 l/min       Max. succinor rate with respect to atmosphere     0.2 s       DC operating voltage range     20.4 V - 27.6 V       Duty cycle     100%       Inductive preterior circuit     Adapted to MZ, MY and ME colis       Insulation voltage     50 V       Ube current     70 mA       Max. succinor     70 mA       Residual current     0.1 mA       Subtiching output     2.2PUP       Voltage drop     1.5 V       Coll characteristics     2.4 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       Cartification     CE EMCC       Cite acters     KC EMC       Commonion operating and plot media     Operating with with with with with with work with with with work work with	Operating pressure for max. vacuum	4 bar
Max. suction rate with respect to atmosphere     96 l/min       Air supply time at nominal operating pressure     0.2 s       DDry cycle     100%       Inductive protective circuit     Adapted to MZ, MY and ME colis       Inductive protective circuit     20 M A       Max. output current     100 mA       Residual current     0.1 mA       Max. output current     0.1 mA       Switching output     2.4 V DC. low-current phase 0.3 W, high-current phase 2.55 W       Oild current     0.3 KN       Overlaad growtexitor     2.8 V DC. low-current phase 0.3 W, high-current phase 2.55 W       Sorge resistance     0.8 KN       Overlaad growtexitor     2.8 V DC. low-current phase 0.3 W, high-current phase 2.55 W       Sorge resistance     0.8 KN       Contradination level     3       Certification     RCK compliance mark       Cult us - stated (01)     KC EMC       Certification of conformity)     As per EU EMC directive       UKCA macking (see declaration of conformity)     KC KEMC       Corrosing resistance class (CK)     2       Asser FU EMC directive     SAS %       Nomating operating pressure     6.36	Max. vacuum	93 %
Air supply line at nominal operating pressure 0.2 s   DC operating voltage range 20.4 V 27.6 V   DUt yyckle 100%   Inductive protective circuit Adapted to MZ, MY and ME colls   Insulation voltage 50 V   dic current 470 mA   Max. output current 100 mA   Residual current 0.1 mA   Stricking output 24PMP   Voltage drop 4.5 V   Coll characteristics 0.4 VC-low-current phase 0.3 W, high-current phase 2.55 W   Suge resistance 0.8 kV   Overload protection Available   Contamination level 3   Scriffication RC M compliance mark   CUL conscription Available   Contamination of conformity) As per EU End directive   UCC Amarking Gee declaration of conformity) As per EU End directive   UCC Amarking Gee declaration of conformity) To Unistructions for ENC   Operating medium Compressed at as per ISO 8873-1;2010 [7:4:4]   Information on operating and plot media Operation within outpoicts for ENC   Corrison resistance as (SCR) 2.4 Moderate corrasion resistance   LABS (PWIS) conformity VDMA24364 zone III   Contamination operating and plot media Operation within outpoin hole   Corrison resistance	Nominal operating pressure	6 bar
Air supply line at nominal operating pressure 0.2 s   DC operating voltage range 20.4 V 27.6 V   DUt yyckle 100%   Inductive protective circuit Adapted to MZ, MY and ME colls   Insulation voltage 50 V   dic current 470 mA   Max. output current 100 mA   Residual current 0.1 mA   Stricking output 24PMP   Voltage drop 4.5 V   Coll characteristics 0.4 VC-low-current phase 0.3 W, high-current phase 2.55 W   Suge resistance 0.8 kV   Overload protection Available   Contamination level 3   Scriffication RC M compliance mark   CUL conscription Available   Contamination of conformity) As per EU End directive   UCC Amarking Gee declaration of conformity) As per EU End directive   UCC Amarking Gee declaration of conformity) To Unistructions for ENC   Operating medium Compressed at as per ISO 8873-1;2010 [7:4:4]   Information on operating and plot media Operation within outpoicts for ENC   Corrison resistance as (SCR) 2.4 Moderate corrasion resistance   LABS (PWIS) conformity VDMA24364 zone III   Contamination operating and plot media Operation within outpoin hole   Corrison resistance	Max. suction rate with respect to atmosphere	98 l/min
Duty cycle 10%   Inductive protective circuit Adapted to MZ, MY and ME coils   Insulation voltage 50 V   Idle current C0 mA   Max. output current 0.1 mA   Switching output 2PMP   Voltage drop 1.5 V   Coll characteristics 24 V DC: low current phase 0.3 W, high-current phase 2.55 W   Overload protection Available   Contamination level 3   Contamination level 3   Certification RCM compliance mark 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 82731-2010 [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 VDM2A2464 zone III   Temperature of medium 0 °C 50 °C   Reative air humidity 5 88 %   Noise level at nominal operating pressure 62 dB(A)   Degree of protection S9 ref   Max. digitering torque 0 SM with internal thread   2.5 W with through-hole 2.5 %   Preduct weight 70 °C <td>Air supply time at nominal operating pressure</td> <td>0.2 s</td>	Air supply time at nominal operating pressure	0.2 s
Inductive protective circuit     Adapted to NZ, MY and ME colls       Insulation voltage     SO V       Ide current     G7 On A       Max. output current     100 mA       Residual current     0.1 mA       Switching output     2.PRIP       Voltage drop     cl.5 V       Coll characteristics     24 VDC: low current phase 0.3 W, high current phase 2.55 W       Surge resistance     0.8 KV       Overload protection     Available       Contamination level     3       Cartification     RCM compliance mark. c/U us-Listed (OL)       Cit faraction of conformity)     As per EU ENC directive       UKC haracters     KC EMC       Cartaning (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       Carroson resistance class (CK2)     2-Moderate corosoin stress       LABS (PWIS) conformity     VMAA3464 zone III       Enterpeature of medium     O*C SO *C       Reative air humidity     5-85 %       Noise level at nominal operating pressure <td>DC operating voltage range</td> <td></td>	DC operating voltage range	
Inductive protective circuit     Adapted to NZ, MY and ME colls       Insulation voltage     SO V       Ide current     G7 On A       Max. output current     100 mA       Residual current     0.1 mA       Switching output     2.PRIP       Voltage drop     cl.5 V       Coll characteristics     24 VDC: low current phase 0.3 W, high current phase 2.55 W       Surge resistance     0.8 KV       Overload protection     Available       Contamination level     3       Cartification     RCM compliance mark. c/U us-Listed (OL)       Cit faraction of conformity)     As per EU ENC directive       UKC haracters     KC EMC       Cartaning (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       Carroson resistance class (CK2)     2-Moderate corosoin stress       LABS (PWIS) conformity     VMAA3464 zone III       Enterpeature of medium     O*C SO *C       Reative air humidity     5-85 %       Noise level at nominal operating pressure <td>Duty cycle</td> <td>100%</td>	Duty cycle	100%
insulation voltage     50 V       idle current     CP mA       Max. output current     100 nA       Residual current     0.1 mA       Switching output     2xPNP       Voltage drop     6.15 V       Coll characteristics     24 V DC. low current phase 0.3 W, high current phase 2.55 W       Sorge resistance     0.8 kV       Overload protection     Available       Contamination level     3       Certification     Cl Lus - Listed (QL)       KC characters     KC EMC       Caranting (see declaration of conformity)     As per EU EMC directive       UKCA marking (see declaration of conformity)     Ko per LU EMC directive       UKCA marking (see declaration of conformity)     Ko EMC       Composed at a sper SD 89731:2010 [74:42]     Information on operating and pilot media       Operating wind in Ulbrication not possible     Compressed at a sper SD 89731:2010 [74:42]       Corrosion resistance class (CRC)     2 - Moderate corrosion stress       CMS (WVS) conformity     VDMA24364 zone III       Degree of protection     (PeS)       Protection class     III       Anabian temperature of medium     0 C	Inductive protective circuit	Adapted to MZ, MY and ME coils
Max. output current     100 mA       Residual current     0.1 mA       Switching output     2xPNP       Voltage drop     1.5 V       Coll characteristics     2x VDC: 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 ENC directive       UKC: Anarcters     KC EMC       Consolar estance class (CRQ)     2- Moderate corrosion resistance       Operating medium     Compressed air as per ISO 8573-1:2010[7:4:4]       Information on operating and plot media     Operation with oil lubrication not possible       Corrosion resistance class (CRQ)     2- Moderate corrosion stress       LABS (PWIS) conformity     VDMA2356 zone III       Temperature of medium     0°C, 50°C       Noise level at nominal operating pressure     62 dB(A)       Degree of protection     IP65       Protection class     III       Amabient temperature     0.6 %	Insulation voltage	
Residual current 0.1 mA   Switching output 2xPPP   Voltage drop 41.5 V   Golt 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 cull us: Listed (OL)   KC characters KC EMC   CE marking (see declaration of conformity) As per EU EMC directive   UCXCA marking (see declaration of conformity) To UX 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 Ubritication not possible   Corrosion resistance class (CRC) 2: Moderate corrosion stress   LaSS (PWIS) conformity VDMA24364 zone III   Temperature of medium O°C 50 °C   Relative air humidity 5: 85 %   Noise level at nominal operating pressure 62 dB(Q/)   Degree of protection IP65   Protection class III   Anbient temperature 0 %C 50 °C   Max. tightening torque 0.8 M with internal thread   2.5 M writh internal thread 2.5 M writh internal thread   2.6 Max. tightening torque 0.5 %C   Protection cla	Idle current	<70 mA
Residual current 0.1 mA   Switching output 2xPNP   Voltage drop 4.5 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   Cell us: Listed OU Cull us: Listed OU   KC characters KC EMC   CE marking (see declaration of conformity) As per TU 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 VDMA24364 zone III   Temperature of medium O°C 50 °C   Relative air humidity 5: 85 %   Noise level at nominal operating pressure 62 dB(A)   Degree of protection IP65   Protection class III   Ambient temperature 0°C 50 °C   Max. lightening torque 0.8 kw with internal thread   2.5 May 0.5 %   Protection class III   Mubint temper	Max. output current	100 mA
Voltage drop   21.5 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 cUL us - Listed (01)     KC characters   KC EMC     CE marking (see declaration of conformity)   As per EU EMC directive     UBCA marking (see declaration of conformity)   To UK instructions for EMC     Operating medium   Compressed air as per ISO 8873 1:2010 [7:4:4]     Information on operating and pilot media   Operation with oil Uubrication not possible     Corrosion resistance class (CRC)   2 - Moderate corrosion stress     LBS (PWIS) conformity   VDM242364 zone III     Temperature of medium   0 °C 50 °C     Relative air hundity   5 :85 %     Noise level at nominal operating pressure   62 dB(A)     Degree of protection   IP65     Protection class   III     Ambient temperature   0 °C 50 °C     Max. tightening torque   2.8 Km with internal thread     2.5 J S   S     Product weight   PSE     Pressure measu		0.1 mA
Voltage drop   21.5 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 cUL us - Listed (01)     KC characters   KC EMC     CE marking (see declaration of conformity)   As per EU EMC directive     UBCA marking (see declaration of conformity)   To UK instructions for EMC     Operating medium   Compressed air as per ISO 8873 1:2010 [7:4:4]     Information on operating and pilot media   Operation with oil Uubrication not possible     Corrosion resistance class (CRC)   2 - Moderate corrosion stress     LBS (PWIS) conformity   VDM242364 zone III     Temperature of medium   0 °C 50 °C     Relative air hundity   5 :85 %     Noise level at nominal operating pressure   62 dB(A)     Degree of protection   IP65     Protection class   III     Ambient temperature   0 °C 50 °C     Max. tightening torque   2.8 Km with internal thread     2.5 J S   S     Product weight   PSE     Pressure measu	Switching output	2xPNP
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     CLU us - Listed (01)   KC characters     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     Operation 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     LBS (PWIS) conformity   VDM24354 cone III     Temperature of medium   0 °C 50 °C     Relative air humidity   5.85 %     Noise level at nominal operating pressure   62 dB(A)     Degree of protection   116     Ambient temperature   0 °C 50 °C     Protection class   111     Ambient temperature   0 °C 50 °C     Pressure measuring range   -1 bar o bar     Accuracy in * % FS   0.6 %     In		≤1.5 V
Surge resistance     0.8 kV       Overload protection     Available       Contamination level     3       Certification     RCM compliance mark c UL 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     Compressed air as per ISO 8573-1:2010 [7:4:4]       Information on operating and pilot media     Operation with oil lubrication not possible       Corrsoin resistance class (CRC)     2. Moderate corrosion stress       LABS (PWIS) conformity     VDMA24364 zone III       Temperature of medium     O*C 50 *C       Relative air humidity     S> 85 %       Nose level at nominal operating pressure     62 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 S #     S       Product weight     825 g       Product weight     825 g       Preduct weight     9.5 S		
Overload protection     Available       Contamination level     3       Certification     RCM compliance mark cU Lus - Listed (OL)       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     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     VDMA24364 zone III       Temperature of medium     0°C 50°C       Relative air humidity     5 - 85 %       Noise level at nominal operating pressure     62 dB(A)       Degree of protection     1P65       Protection class     III       Ambient temperature     0 °C 50 °C       Max. tightening torque     0.8 Nm with through-hole       Protection class     III       Protection lass     III       Protection class     III       Accuracy in ± % FS     3%F5       Reproducibility, switching value FS     0.6		
Contamination level   3     Certification   RCM compliance mark c UL us - Usted (01)     KC characters   KC EMC     Cf marking (see declaration of conformity)   As per EU ENC directive     UKC haracters   KC 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   VDMA24364 zone III     Temperature of medium   0 % 50 %     Relative air humidity   5 - 85 %     Noise level at nominal operating pressure   62 dB(A)     Degree of protection   IP65     Protection Class   III     Ambient temperature 0 °C 50 °C   Max. tightening torque     As King thening torque   0.8 Nm with internal thread     Accuracy in ± % FS   3 % FS     Reproducibility, switching value FS   0.6 %     Input switching logic   PNP (positive switching)     Electrical connection 1   Mit harcaghtered     With through-hole   With through-hole     Product weight   QS-10     Puery of moun		
Certification   RCM compliance mark cll 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   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   62 dB(A)     Degree of protection   IP65     Protection class   III     Anbient temperature   0 °C 50 °C     Max. tightening torque   28 M mwith internal thread     2.5 Nm with through-hole   Pressure measuring range     Arcuray in # % PS   3 %PS     Repreducibility, switching value PS   0.6 %     Input switching logic   PNP (positive switching)     Electrical connection   5-10     Preumatic connection 1   QS-10     Preuematic connection 3   Pneumatic m		
KC characters   KC EMC     CE marking (see declaration of conformity)   As per EU EMC directive     URCA 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   VDMA24364 zone III     Temperature of medium   0 °C 50 °C     Relative air humidity   5 - 85 %     Noise level at nominal operating pressure   62 dB(A)     Degree of protection   1P65     Protection class   III     Ambient temperature   0 °C 50 °C     Max. tightening torque   2.5 Nm with internal thread     2.5 Nm with through-hole   25 g     Pressure measuring range   -1 bar 0 bar     Accuracy In *0 * 5   3 %F5     Reproducibility, switching value FS   0.6 %     Input switching logic   PNP (positive switching)     Electrical connection   5pin Mit2x1     Plug   Plug     Type of mounting   QS-10     Pneumatic connecti		RCM compliance mark
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 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   62 dB(A)     Degree of protection   IP65     Protection class   III     Ambient temperature   0 °C 50 °C     Max. tightening torque   0.8 Nrm with internal thread     2.5 g   S     Product weight   825 g     Pressure measuring range   1 bar 0 bar     Accuracy in ±% FS   0.6 %     Input switching logic   PNP (positive switching)     Electrical connection   M12x1     Pug   With internal thread     With internal thread   With internal thread     2.5 pin   M12x1     Pug   Pice Sories	KC characters	
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     LMSS (PWIS) conformity   VDMA24364 zone III     Temperature of medium   0 °C 50 °C     Relative air humidity   5 - 85 %     Noise level at nominal operating pressure   62 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 internal thread   2.5 Nm with internal thread     2.5 Nm with internal thread   2.5 Nm with internal thread     Accuracy in ± % FS   3 %FS     Reproducibility, switching value FS   0.6 %     Input switching logic   PNP (positive switching)     Electrical connection   Srint accessories     Prize of mounting   With through-hole     With accessories   Pneumatic connection 1     Pipe of mounting   With through-hole     With internal thread		
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     62 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 S     S       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)       Electrical connection     5 pin M1211       Yue of mounting     With through-hole With internal thread With accessories       Pneumatic connection 1     QS-10       Pneumatic connection 3     Pneumatic muffler       Vaeum connection 3     RoHS-compl		
Information on operating and pilot mediaOperation with oil lubrication not possibleCorrosion resistance class (CRC)2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364 zone IIITemperature of medium0 °C 50 °CRelative air humidity5 - 85 %Noise level at nominal operating pressure62 dB(A)Degree of protectionIP65Protection classIIIAmbient temperature0 °C 50 °CMax. tightening torque0.8 Nm with internal thread 2.5 Nm with through-holeProduct weight825 gProduct 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-hole With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic muffler Vacuur connection 3Read ConnectionQS-12Note on materialsRoHS-compliant NBR		
Corrosion resistance class (CRC)2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364 zone IIITemperature of medium0 °C 50 °CRelative air humidity5 - 85 %Noise level at nominal operating pressure62 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 ± % F53 %F5Reproducibility, switching value FS0.6 %Input switching logicPNP (positive switching)Electrical connection5-pin M12x1 PlugType of mountingWith through-hole With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic mufflerVacuum connection 1QS-12Seals materialRNBRNBRNBR	· -	
LABS (PWIS) conformityVDMA24364 zone IIITemperature of medium0 °C 50 °CRelative air humidity5 · 85 %Noise level at nominal operating pressure62 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 connection 1QS-10Pneumatic connection 3Pneumatic mufflerVacuum connectionQS-12Note on materialsRoHS-compliantSeals materialHNBR NBR		
Temperature of medium0 °C 50 °CRelative air humidity5 - 85 %Noise level at nominal operating pressure62 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 ± % FS0.6 %Reproducibility, switching value FS0.6 %Input switching logicPNP (positive switching)Electrical connection5-pin M12x1 PlugType of mountingWith through-hole With internal thread With internal thread With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic muffler Vacuum connectionVacuum connectionQS-12Note on materialsRoHS-compliant NBR		
Relative air humidity5 - 85 %Noise level at nominal operating pressure62 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 ± % FS0.6 %Input switching value FS0.6 %Input switching logicPNP (positive switching)Electrical connection5-pin M12x1 PlugType of mountingWith through-hole With internal thread With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connectionQS-12Note on materialsRoHS-compliantSeals materialHNBR NBR		
Noise level at nominal operating pressure62 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-hole With internal thread With internal thread With accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic muffler Vacuum connectionSeals materialsRoHS-compliantSeals materialHNBR NBR		
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Input switching logicPNP (positive switching)Electrical connection5-pin M12x1 PlugType 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 PlugType 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 PlugType 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 accessoriesPneumatic connection 1QS-10Pneumatic connection 3Pneumatic mufflerVacuum connectionQS-12Note on materialsRoHS-compliantSeals materialHNBR NBR	Electrical connection	M12x1
Pneumatic connection 3 Pneumatic muffler   Vacuum connection QS-12   Note on materials RoHS-compliant   Seals material HNBR NBR	Type of mounting	With through-hole 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
NBR	Note on materials	RoHS-compliant
Female nozzle material POM	Seals material	HNBR
	Female nozzle material	

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