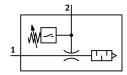
## Vacuum generator VN-07-L-T4-PQ2-VQ2-O1-P Part number: 536802







General operating condition

## **Data sheet**

Muffler construction type Open Mounting position Any Ejector characteristics High suction rate Standard Integrated function Pressure sensor Pneumatic muffler open Structural design T-shape Measured variable Measuring principle Plezoresistive Method of measurement Relative Switching element function N/O contact Switching function Threshold value comparator Threshold value with fixed hysteresis Symbol Display type LED Setting range threshold value Setting range threshold value Threshold value setting range Jeach-in Switching ressure for max. suction rate Operating pressure for max. suction rate Operating pressure Op	Feature	Value
Muffler construction type  Mounting position  Any  High suction rate Standard  Integrated function  Pressure sensor Pneumatic muffler open  Structural design  T-shape Short-circuit protection  Pulsed Measured variable  Measuring principle  Method of measurement  Switching element function  Switching function  Threshold value comparator Threshold value with fixed hysteresis  Symbol  Oo991917  Reverse polarity protection  for all electrical connections  Setting range threshold value  Setting range threshold value  Setting status indication  LED  Setting range threshold value  1 bar 0 bar  Threshold value setting range  14.5 psi 0 psi  Operating pressure  Operating pressure  Operating pressure  1 bar 8 bar  Operating pressure  Operating pressure  1 bar 8 bar  Operating pressure  Operating pressure  1 bar 8 bar  Operating pressure  1 bar 8 bar  Operating pressure  Operating pressure  1 bar 8 bar  Operating pressure  1 bar 8 bar  Operating pressure  Operating pressure  1 bar 8 bar  Operating pressure  1 bar 8 bar  Operating pressure  Operating pressure  1 bar 8 bar  Operating pressure  Operating pressure  1 bar 8 bar  Operating pressure  Operating pressure  Operating pressure  1 bar 8 bar  Operating pressure  Operating	Nominal width of Laval nozzle	0.7 mm
Mounting position Ejector characteristics High suction rate Standard High suction rate Standard  Pressure sensor Pneumatic muffler open  Structural design T-shape Short-circuit protection Pulsed Measured variable Measured variable Measuring principle Piezoresistive Method of measurement Relative Switching element function N/O contact Switching function Threshold value comparator Threshold value with fixed hysteresis Operating principle LED Setting range threshold value Operating pressure Operating pres	Width dimension	16 mm
Ejector characteristics  Integrated function  Pressure sensor Pneumatic muffler open  Structural design  T-shape  Short-circuit protection  Measured variable  Relative pressure Measuring principle  Measuring principle  Method of measurement  Relative Switching element function  Switching function  Threshold value comparator Threshold value with fixed hysteresis  Symbol  00991917  Reverse polarity protection  for all electrical connections  Display type  LED  Setting range threshold value  -0.1 MPa 0 MPa  Setting status indication  Ebestiting range threshold value  1 bar 0 bar  Threshold value setting range  14.5 psi 0 psi  Operating pressure  0 Operating pressure  1 bar 0 8 MPa  Operating pressure  1 bar 8 bar	Muffler construction type	Open
Integrated function Pressure sensor Presure sensor Premumatic muffler open Structural design T-shape  Short-circuit protection Pulsed Relative pressure Piezoresistive Measuring principle Piezoresistive Method of measurement Relative Switching element function N/O contact Switching function Threshold value comparator Threshold value with fixed hysteresis Symbol 00991917  Reverse polarity protection for all electrical connections Display type LED Setting range threshold value With Fixed hysteresis Switching status indication LED Setting range threshold value Threshold value Threshold value Setting range threshold value 1-1 bar 0 bar Threshold value Setting pressure for max. suction rate 0.4 MPa Operating pressure for max. suction rate 4 bar Operating pressure for max. suction rate 58 psi Operating pressure 0.1 MPa 0.8 MPa Operating pressure 1 1 bar 0 Bar Operating pressure 1 1 bar 0 Bar Operating pressure 1 1 bar 0 Bar Operating pressure 0.1 MPa 0.8 MPa Operating pressure 0.2 MPa 0.8 MPa Operating pressure 0.3 MPa 0.8 MPa Operating pressure 0.4 MPa Operating pressure 0.5 MPa 0.8 MPa Operating pressure 0.6 MPa Operating pressure 0.7 MPa 0.8 MPa Operating pressure 0.8 MPa Operating pressure 0.9 MPa	Mounting position	Any
Structural design T-shape Structural design Pulsed Relative pressure Measured variable Method of measurement Relative Switching element function N/O contact Switching function Threshold value comparator Threshold value with fixed hysteresis Symbol O0991917 Reverse polarity protection for all electrical connections Display type LED Setting range threshold value -0.1 MPa 0 MPa Setting range threshold value -1 bar 0 bar Threshold value setting range -14.5 psi 0 psi Operating pressure for max. suction rate -0 AMPa Operating pressure for max. suction rate -0 AMPa 0.8 MPa Operating pressure -0 AMPa Operating pressure -0 AMPa Nominal operating pressure -0 AMPa Max. suction rate with respect to atmosphere -0 AMPa Switch-off time -4 ms	Ejector characteristics	=
Short-circuit protection Pulsed  Measured variable Relative pressure  Measuring principle Piezoresistive  Method of measurement Relative  Switching element function N/O contact  Switching function Threshold value comparator Threshold value with fixed hysteresis  Symbol O0991917  Reverse polarity protection for all electrical connections  Display type  LED  Setting range threshold value  -0.1 MPa 0 MPa  Setting status indication  LED  Setting range threshold value  -1 bar 0 bar  Threshold value setting range  -14.5 psi 0 psi  Operating pressure for max. suction rate  Operating pressure for max. suction rate  Operating pressure for max. suction rate  Operating pressure  0.1 MPa 0.8 MPa  Operating pressure  0.2 MPa 0.8 MPa  Operating pressure  0.3 MPa 0.8 MPa  Operating pressure  0.4 MPa  Operating pressure  0.5 MPa 116 psi  Nominal operating pressure	Integrated function	
Measured variable  Measuring principle  Method of measurement  Method of measurement  Method of measurement  Relative  Switching element function  My/o contact  Switching function  Threshold value comparator Threshold value with fixed hysteresis  Symbol  O0991917  Reverse polarity protection  Display type  LED  Setting range threshold value  -0.1 MPa 0 MPa  Setting potions  Teach-in  Switching status indication  LED  Setting range threshold value  -1 bar 0 bar  Threshold value setting range  Operating pressure for max. suction rate  Operating pressure for max. suction rate  Operating pressure for max. suction rate  Operating pressure  Operating press	Structural design	T-shape
Measuring principle Method of measurement Relative Switching element function N/O contact Switching function Threshold value comparator Threshold value with fixed hysteresis Symbol O0991917 Reverse polarity protection Display type LED Setting range threshold value -0.1 MPa 0 MPa Setting status indication Setting status indication LED Setting range threshold value -1 bar 0 bar Threshold value setting range -14.5 psi 0 psi Operating pressure for max. suction rate 0 yerating pressure for max. suction rate 0 yerating pressure 0 0.1 MPa 0.8 MPa Operating pressure 0 0.5 MPa Nominal operating pressure 0 0.6 MPa Nominal operating pressure 0 0.6 MPa Nominal operating pressure 0 0.7 MPa 0.8 MPa Nominal operating pressure 0 0.6 MPa Nominal operating pressure 0 0.7 MPa 0.8 MPa Nominal operating pressure 0 0.8 MPa Nominal operating pressure 0 0.9 J/min Switch-off time 4 Mrs	Short-circuit protection	Pulsed
Method of measurement Switching element function Switching element function Switching function Threshold value comparator Threshold value with fixed hysteresis Symbol Symbol Symbol Reverse polarity protection Display type LED Setting range threshold value Setting range threshold value Setting status indication LED Setting status indication LED Setting range threshold value -1 bar 0 bar Threshold value setting range -14.5 psi 0 psi Operating pressure for max. suction rate Operating pressure for max. suction rate Setting pressure Operating pressure Ope	Measured variable	Relative pressure
Switching element function  N/O contact Threshold value comparator Threshold value with fixed hysteresis  Symbol  O0991917  Reverse polarity protection Display type  LED  Setting range threshold value O-1.1 MPa 0 MPa  Setting status indication  Switching status indication  Setting range threshold value  -1 bar 0 bar  Threshold value setting range Operating pressure for max. suction rate Operating pressure for max. suction rate Operating pressure for max. suction rate Operating pressure Operatin	Measuring principle	Piezoresistive
Threshold value comparator Threshold value with fixed hysteresis  Symbol 00991917  Reverse polarity protection for all electrical connections  Display type LED  Setting range threshold value -0.1 MPa 0 MPa  Setting aptions Teach-in  Switching status indication LED  Setting range threshold value -1 bar 0 bar  Threshold value setting range -14.5 psi 0 psi  Operating pressure for max. suction rate 0.4 MPa  Operating pressure for max. suction rate 4 bar  Operating pressure for max. suction rate 58 psi  Operating pressure 0.1 MPa 0.8 MPa  Operating pressure 1 bar 8 bar  Operating pressure 1 14.5 psi 116 psi  Nominal operating pressure 0.6 MPa  Nominal operating pressure 87 psi  Max. suction rate with respect to atmosphere 30.9 l/min  Switch-off time 54 ms	Method of measurement	Relative
Threshold value with fixed hysteresis  Symbol 00991917  Reverse polarity protection for all electrical connections  Display type	Switching element function	N/O contact
Reverse polarity protection for all electrical connections  Display type  Setting range threshold value  -0.1 MPa 0 MPa  Setting options  Teach-in  Switching status indication  Setting range threshold value  -1 bar 0 bar  Threshold value setting range  Operating pressure for max. suction rate  Operating pressure for max. suction rate  Operating pressure for max. suction rate  Operating pressure  Operating pressure  Operating pressure  On 1 MPa 0.8 MPa  Operating pressure  1 bar 8 bar  Operating pressure	Switching function	
Display type  LED  Setting range threshold value  -0.1 MPa 0 MPa  Setting options  Teach-in  Switching status indication  LED  Setting range threshold value -1 bar 0 bar  Threshold value setting range  Operating pressure for max. suction rate  Operating pressure for max. suction rate  Operating pressure for max. suction rate  Operating pressure  O1. MPa 0.8 MPa  Operating pressure  O1. MPa 0.8 MPa  Operating pressure  O2. MPa 0.8 MPa  Operating pressure  O3. MPa 0.8 MPa  Operating pressure  O4. Setting range  O5. MPa  O6. MPa  Nominal operating pressure  O6. MPa  Nominal operating pressure  O7. MPa 0.8 MPa  O8. MPa  O9. MPa	Symbol	00991917
Setting range threshold value  Setting options  Teach-in  Switching status indication  LED  Setting range threshold value  -1 bar 0 bar  Threshold value setting range  -14.5 psi 0 psi  Operating pressure for max. suction rate  Operating pressure for max. suction rate  Operating pressure for max. suction rate  Operating pressure  Operati	Reverse polarity protection	for all electrical connections
Setting options  Teach-in  Switching status indication  LED  Setting range threshold value -1 bar 0 bar  Threshold value setting range -14.5 psi 0 psi  Operating pressure for max. suction rate  O,4 MPa  Operating pressure for max. suction rate  Operating pressure for max. suction rate  Operating pressure for max. suction rate  Operating pressure  One MPa  Nominal operating pressure  One MPa  Nominal operating pressure  Sometime  Operating pressure  One MPa  One MPa  Operating pressure  On	Display type	LED
Switching status indication  Setting range threshold value  -1 bar 0 bar  Threshold value setting range  -14.5 psi 0 psi  Operating pressure for max. suction rate  0.4 MPa  Operating pressure for max. suction rate  4 bar  Operating pressure for max. suction rate  58 psi  Operating pressure  0.1 MPa 0.8 MPa  Operating pressure  1 bar 8 bar  Operating pressure  14.5 psi 116 psi  Nominal operating pressure  0.6 MPa  Nominal operating pressure  87 psi  Max. suction rate with respect to atmosphere  Switch-off time  54 ms	Setting range threshold value	-0.1 MPa 0 MPa
Setting range threshold value  -1 bar 0 bar  Threshold value setting range  -14.5 psi 0 psi  Operating pressure for max. suction rate  0.4 MPa  Operating pressure for max. suction rate  4 bar  Operating pressure for max. suction rate  58 psi  Operating pressure  0.1 MPa 0.8 MPa  Operating pressure  1 bar 8 bar  Operating pressure  14.5 psi 116 psi  Nominal operating pressure  0.6 MPa  Nominal operating pressure  87 psi  Max. suction rate with respect to atmosphere  30.9 l/min  Switch-off time	Setting options	Teach-in
Threshold value setting range  Operating pressure for max. suction rate  Operating pressure  Operating pressure  Operating pressure  Operating pressure  Operating pressure  1 bar 8 bar  Operating pressure  14.5 psi 116 psi  Nominal operating pressure  Onerating pressure	Switching status indication	LED
Operating pressure for max. suction rate Operating pressure for max. suction rate Operating pressure for max. suction rate Operating pressure Oper	Setting range threshold value	-1 bar 0 bar
Operating pressure for max. suction rate  Operating pressure for max. suction rate  58 psi  Operating pressure  Onerating pressure  Operating pressure  Operating pressure  Operating pressure  1 bar 8 bar  Operating pressure  14.5 psi 116 psi  Nominal operating pressure  Onerating pressure  Onerati	Threshold value setting range	-14.5 psi 0 psi
Operating pressure for max. suction rate  58 psi Operating pressure  0.1 MPa 0.8 MPa Operating pressure  1 bar 8 bar Operating pressure  14.5 psi 116 psi Nominal operating pressure  0.6 MPa Nominal operating pressure  87 psi Max. suction rate with respect to atmosphere  58 psi 30.9 l/min Switch-off time	Operating pressure for max. suction rate	0.4 MPa
Operating pressure       0.1 MPa 0.8 MPa         Operating pressure       1 bar 8 bar         Operating pressure       14.5 psi 116 psi         Nominal operating pressure       0.6 MPa         Nominal operating pressure       6 bar         Nominal operating pressure       87 psi         Max. suction rate with respect to atmosphere       30.9 l/min         Switch-off time       ≤4 ms	Operating pressure for max. suction rate	4 bar
Operating pressure     1 bar 8 bar       Operating pressure     14.5 psi 116 psi       Nominal operating pressure     0.6 MPa       Nominal operating pressure     6 bar       Nominal operating pressure     87 psi       Max. suction rate with respect to atmosphere     30.9 l/min       Switch-off time     ≤4 ms	Operating pressure for max. suction rate	58 psi
Operating pressure 14.5 psi 116 psi  Nominal operating pressure 0.6 MPa  Nominal operating pressure 6 bar  Nominal operating pressure 87 psi  Max. suction rate with respect to atmosphere 30.9 l/min  Switch-off time \$4 ms	Operating pressure	0.1 MPa 0.8 MPa
Nominal operating pressure  Nominal operating pressure  Nominal operating pressure  Nominal operating pressure  87 psi  Max. suction rate with respect to atmosphere  30.9 l/min  Switch-off time  ≤4 ms	Operating pressure	1 bar 8 bar
Nominal operating pressure 6 bar  Nominal operating pressure 87 psi  Max. suction rate with respect to atmosphere 30.9 l/min  Switch-off time ≤4 ms	Operating pressure	14.5 psi 116 psi
Nominal operating pressure 87 psi  Max. suction rate with respect to atmosphere 30.9 l/min  Switch-off time <4 ms	Nominal operating pressure	0.6 MPa
Max. suction rate with respect to atmosphere 30.9 l/min Switch-off time ≤4 ms	Nominal operating pressure	6 bar
Switch-off time ≤4 ms	Nominal operating pressure	87 psi
	Max. suction rate with respect to atmosphere	30.9 l/min
On time ≤4 ms	Switch-off time	≤4 ms
	On time	≤4 ms

Feature	Value
DC operating voltage range	15 V 30 V
Inductive protective circuit	Adapted to MZ, MY and ME coils
Max. output current	100 mA
Residual current	≤0.3 mA
Residual ripple	10 %
Switching output	PNP
Voltage drop	≤1.5 V
Overload protection	Available
Certification	RCM compliance mark
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)	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Temperature of medium	0 °C 60 °C
Cleaning advice	Soap suds
Noise level at nominal operating pressure	63 dB(A)
Degree of protection	IP40
Ambient temperature	0 °C 50 °C
Max. tightening torque	0.6 Nm
Pressure measuring range	-0.1 MPa 0 MPa
Pressure measuring range	-1 bar 0 bar
Pressure measuring range	-14.5 psi 0 psi
Product weight	36 g
Accuracy in ± % FS	1.5 %FS
Hysteresis in ± %FS	2 %FS
Long-term drift	±0.5 % FS max.
Temperature coefficient of switching point	0.05 %/K
Electrical connection	3-pin M8
Type of mounting	With through-hole
Pneumatic connection 1	QS-6
Pneumatic connection 3	Pneumatic muffler open
Vacuum connection	QS-6
Seals material	NBR
Female nozzle material	POM
Housing material	POM-reinforced
Fiber-optic cable	PC
Muffler material	PE
Material of plug housing	Brass PA Chrama plated and nickel plated
Matarial of int parala	Chrome-plated and nickel-plated
Material of jet nozzle  Material of keypad	Wrought aluminum alloy POM
Material of pneumatic fitting	Brass
material of pheumatic fitting	Nickel-plated