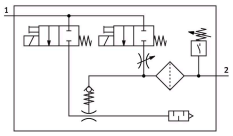
# Vacuum generator
# OVEM-20-H-B-QO-CE-N-1P

Part number: 8023699





## Data sheet

| Feature | Value |
|---|---|
| Nominal width of Laval nozzle | 2 mm |
| Width dimension | 20 mm |
| Muffler construction type | Open |
| Mounting position | Any |
| Ejector characteristics | High vacuum<br>Standard |
| Grade of filtration | 40 µm |
| Manual override | Non-detenting |
| Integrated function | Ejector pulse valve, electric<br>Flow control valve<br>Electric on-off valve<br>Filter<br>Check valve<br>Muffler open<br>Vacuum switch |
| Structural design | Modular |
| Short-circuit protection | Yes |
| Measured variable | Relative pressure |
| Measuring principle | Piezoresistive |
| Switching element function | N.O. contact |
| Switching function | Threshold value comparator<br>Threshold value with fixed hysteresis |
| Valve function | Closed |
| Reverse polarity protection | for all electrical connections |
| Switching input to standard | IEC 61131-2 |
| Display type | LED |
| Setting options | Teach-in |
| Switching position indication | LED |
| Switching status indication | Optical |
| Setting range threshold value | -1 bar...0 bar |
| Operating pressure | 2 bar...8 bar |
| Operating pressure for max. vacuum | 5.3 bar |
| Max. vacuum | 93 % |
| Nominal operating pressure | 6 bar |

| Feature | Value |
|---|---|
| Max. suction rate with respect to atmosphere | 86.5 l/min |
| 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 |
| Idle current | 80 mA |
| Max. output current | 100 mA |
| Residual current | 0.1 mA |
| Switching output | PNP |
| Voltage drop | 1.5 V |
| Coil characteristics | 24 V DC: low-current phase 0.3 W, high-current phase 2.55 W |
| Overload protection | Available |
| Certification | RCM compliance mark<br>c UL us - Listed (OL) |
| KC characters | KC-EMV |
| 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 | 74 dB(A) |
| Degree of protection | IP65 |
| Protection class | III |
| Ambient temperature | 0 °C...50 °C |
| Max. tightening torque | 0.8 Nm with internal thread<br>2.5 Nm with through-hole |
| Product weight | 371 g |
| Pressure measuring range | -1 bar...0 bar |
| Accuracy in ± % FS | 0.5 %FS |
| Hysteresis | 0.02 bar |
| Reproducibility, switching value FS | 0.6 % |
| Input switching logic | PNP (positive switching) |
| Electrical connection | 5-pin<br>M12x1<br>Plug |
| Type of mounting | With through-hole<br>With internal thread<br>With accessories |
| Pneumatic connection 1 | QS-8 |
| Pneumatic connection 3 | Integrated muffler |
| Vacuum connection | QS-8 |
| Note on materials | RoHS compliant |
| Seals material | NBR |
| Female nozzle material | POM |
| Compressed air filter material | Fabric<br>PA<br>Sintered steel |
| Material of filter housing | PA-reinforced |
| Housing material | Die-cast aluminum<br>PA-reinforced |
| Hollow bolt material | Wrought aluminum alloy |
| Material of adjusting screw | Steel |

| Feature | Value |
|---|---|
| Muffler material | Wrought aluminum alloy<br>PU foam |
| Material of screws | Steel |
| Material of plug housing | Brass, nickel-plated |
| Material of pin contacts | Gold-plated brass |
| Material of pins | Steel |
| Material of jet nozzle | Wrought aluminum alloy |
| Material of keypad | PA-reinforced |
| Material of pneumatic fitting | Brass, nickel-plated |
| Bracket material | High-grade steel |