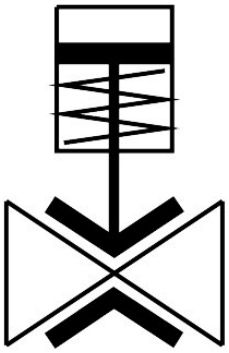
# Pinch valve
# VZQA-C-M22U-50-TT-ALALE-2

Part number: 8161477





## Data sheet

| Feature | Value |
|---|---|
| Design | Pinch valve, pneumatically actuated |
| Type of actuation | Pneumatic |
| Sealing principle | Soft |
| Mounting position | Any |
| Type of mounting | Inline installation |
| Connection Process valve | 2 NPT |
| Nominal size DN | 50 |
| Valve function | 2/2-way, single solenoid, open |
| Flow direction | Reversible |
| Medium pressure | 0 MPa...0.2 MPa<br>0 bar...2 bar<br>0 psi...29 psi |
| Note on the medium pressure | Use in the vacuum range was tested up to -0.09 MPa with the air at room temperature. Depending on the application, a counter-vacuum may have to be created on the control side to guarantee the media flow. |
| Operating pressure | 0 MPa...0.45 MPa<br>0 bar...4.5 bar<br>0 psi...65.25 psi |
| Nominal pressure PN | 10 |
| Differential pressure | 0.25 MPa<br>2.5 bar<br>36.25 psi |
| Burst pressure | 1.6 MPa<br>16 bar<br>232 psi |
| Overload pressure | 0.78 MPa<br>7.8 bar<br>113.1 psi |
| Type of reset | Rebound resilience |
| Type of piloting | Externally actuated |

| Feature | Value |
|---|---|
| Auxiliary pilot air port 12 | G1/8 |
| Pilot medium | Compressed air to ISO 8573-1:2010 [7:4:1] |
| Medium | Compressed air to ISO 8573-1:2010 [-:-:1]<br>Water |
| Max. viscosity | 4000 mm²/s |
| Media temperature | -5 °C...100 °C |
| Ambient temperature | -5 °C...60 °C |
| Storage temperature | 5 °C...20 °C |
| Flow rate Kv | 72 m³/h |
| Switching time on | 200 ms |
| Switching time off | 1000 ms |
| Note on materials | RoHS compliant |
| Suitability for the production of Li-ion batteries | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Material housing | Wrought aluminium alloy |
| Material housing cover | Wrought aluminium alloy |
| Material seals | VMQ |
| Material shut-off element | EPDM |
| Product weight | 1302 g |
| Suitable for use with food | See supplementary material information |
| Material bowl | Die-cast aluminium |