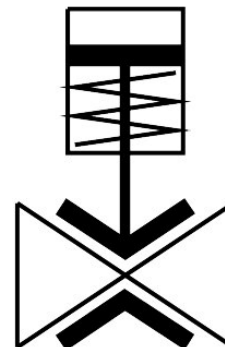


# Pinch valve VZQA-C-M22U-50-TT-ALALE-2

Part number: 8161477

FESTO



 [General operating condition](#)

## Data sheet

| Feature                        | Value                                                                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Structural design              | Pinch valve, pneumatically operated                                                                                                                                                                         |
| Actuation type                 | Pneumatic                                                                                                                                                                                                   |
| Sealing principle              | Soft                                                                                                                                                                                                        |
| Mounting position              | Any                                                                                                                                                                                                         |
| Type of mounting               | Line installation                                                                                                                                                                                           |
| Fitting connection             | 2 NPT                                                                                                                                                                                                       |
| Nominal width DN               | 50                                                                                                                                                                                                          |
| Valve function                 | 2/2, open, monostable                                                                                                                                                                                       |
| Flow direction                 | Reversible                                                                                                                                                                                                  |
| Medium pressure                | 0 MPa ... 0.2 MPa                                                                                                                                                                                           |
| Medium pressure                | 0 bar ... 2 bar                                                                                                                                                                                             |
| Medium pressure                | 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                                                                                                                                                                                          |
| Operating pressure             | 0 bar ... 4.5 bar                                                                                                                                                                                           |
| Operating pressure             | 0 psi ... 65.25 psi                                                                                                                                                                                         |
| Nominal pressure of fitting PN | 10                                                                                                                                                                                                          |
| Differential pressure          | 0.25 MPa                                                                                                                                                                                                    |
| Differential pressure          | 2.5 bar                                                                                                                                                                                                     |
| Differential pressure          | 36.25 psi                                                                                                                                                                                                   |
| Burst pressure                 | 1.6 MPa                                                                                                                                                                                                     |
| Burst pressure                 | 16 bar                                                                                                                                                                                                      |
| Burst pressure                 | 232 psi                                                                                                                                                                                                     |
| Overload pressure              | 0.78 MPa                                                                                                                                                                                                    |
| Overload pressure              | 7.8 bar                                                                                                                                                                                                     |
| Overload pressure              | 113.1 psi                                                                                                                                                                                                   |
| Reset method                   | Rebound resilience                                                                                                                                                                                          |
| Type of control                | Externally controlled                                                                                                                                                                                       |

| Feature                                            | Value                                                              |
|----------------------------------------------------|--------------------------------------------------------------------|
| Auxiliary pilot air port 12                        | G1/8                                                               |
| Pilot medium                                       | Compressed air as per ISO 8573-1:2010 [7:4:1]                      |
| Symbol                                             | 00995245                                                           |
| Medium                                             | Compressed air as per ISO 8573-1:2010 [-:::1]<br>Water             |
| Max. viscosity                                     | 4000 mm <sup>2</sup> /s                                            |
| Temperature of medium                              | -5 °C ... 100 °C                                                   |
| Ambient temperature                                | -5 °C ... 60 °C                                                    |
| Storage temperature                                | 5 °C ... 20 °C                                                     |
| Flow rate Kv                                       | 72 m <sup>3</sup> /h                                               |
| On switching time                                  | 200 ms                                                             |
| Switching time off                                 | 1000 ms                                                            |
| Note on materials                                  | RoHS-compliant                                                     |
| LABS (PWIS) conformity                             | VDMA24364 zone III                                                 |
| Suitability for the production of Li-ion batteries | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Housing material                                   | Wrought aluminum alloy                                             |
| Housing cover material                             | Wrought aluminum alloy                                             |
| Seals material                                     | VMQ                                                                |
| Shut-off element material                          | EPDM                                                               |
| Product weight                                     | 1302 g                                                             |
| For use in the food industry                       | See supplementary material information                             |
| Material of bowl                                   | Die-cast aluminum                                                  |