

# Solenoid valve VUVS-30

Part number: 8022017

**FESTO**



## Data sheet

| Feature                                               | Value                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Valve function                                        | 2x3/2 closed monostable<br>2x3/2 open monostable<br>2x3/2-way, open/closed, monostable<br>3/2-way, single solenoid, closed<br>3/2-way, single solenoid, open<br>5/2-way, double solenoid<br>5/2-way, single solenoid<br>5/3-way, pressurised<br>5/3 exhausted<br>5/3-way, closed |
| Type of actuation                                     | Electrical                                                                                                                                                                                                                                                                       |
| Valve size                                            | 31 mm                                                                                                                                                                                                                                                                            |
| Standard nominal flow rate (standardised to DIN 1343) | 1500 l/min...2400 l/min                                                                                                                                                                                                                                                          |
| pneumatic working port                                | G3/8<br>3/8 NPT<br>QS-8<br>QS-10<br>QS-12<br>QS-5/16<br>QS-3/8<br>QS-1/2                                                                                                                                                                                                         |
| Operating voltage                                     | 110V AC<br>120V AC<br>12 V DC<br>230V AC<br>240V AC<br>24V AC<br>24 V DC                                                                                                                                                                                                         |
| Operating pressure                                    | -0.09 MPa...1 MPa<br>-0.9 bar...10 bar                                                                                                                                                                                                                                           |
| Design                                                | Piston gate valve<br>Poppet seat                                                                                                                                                                                                                                                 |
| Type of reset                                         | Mechanical spring<br>Pneumatic spring                                                                                                                                                                                                                                            |
| Approval                                              | c UL us - Recognised (Oil)                                                                                                                                                                                                                                                       |
| Maritime classification                               | See certificate                                                                                                                                                                                                                                                                  |
| CE mark (see declaration of conformity)               | To EU Explosion Protection Directive (ATEX)                                                                                                                                                                                                                                      |
| Explosion protection certification outside the EU     | EPL Dc (GB)<br>EPL Gc (GB)                                                                                                                                                                                                                                                       |

| Feature                                                   | Value                                                                                      |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------|
| UKCA marking (see declaration of conformity)              | To UK EX instructions                                                                      |
| Certificate issuing authority                             | DNVGL-TAA000011J                                                                           |
| ATEX category gas                                         | II 3G                                                                                      |
| ATEX category dust                                        | II 3D                                                                                      |
| Explosion ignition protection type for gas                | Ex ec IIC T4 Gc X                                                                          |
| Explosion ignition protection type for dust               | Ex tc IIIC T115°C Dc X                                                                     |
| Explosion ambient temperature                             | -10°C ≤ Ta ≤ +60°C                                                                         |
| Degree of protection                                      | IP65<br>IP67<br>With plug socket<br>To IEC 60529                                           |
| Exhaust-air function                                      | Can be throttled                                                                           |
| Sealing principle                                         | Soft                                                                                       |
| Mounting position                                         | Any                                                                                        |
| Type of piloting                                          | Piloted                                                                                    |
| Explosion protection                                      | Zone 2 (ATEX)<br>Zone 2 (UKEX)<br>Zone 22 (ATEX)<br>Zone 22 (UKEX)                         |
| Operating medium                                          | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |
| Note on operating and pilot medium                        | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC                            | 2 - Moderate corrosion stress                                                              |
| LABS (PWIS) conformity                                    | VDMA24364-B1/B2-L                                                                          |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 6 according to ISO 14644-1                                                           |
| Media temperature                                         | -10 °C...60 °C                                                                             |
| Pilot medium                                              | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |
| Ambient temperature                                       | -10 °C...60 °C                                                                             |
| Type of mounting                                          | Either:<br>On manifold rail<br>With through-hole                                           |
| Breather connection                                       | Not ducted                                                                                 |
| Note on materials                                         | RoHS compliant                                                                             |
| Material seals                                            | HNBR<br>NBR                                                                                |
| Material housing                                          | Die-cast aluminium<br>painted                                                              |
| Material piston slide                                     | Wrought aluminium alloy                                                                    |
| Material screws                                           | Nickel-plated steel                                                                        |