

# Valve terminal CPV10-VI

Part number: 18200

FESTO



 General operating condition

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature                                      | Value                                                                                                      |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Electrical control                           | AS-Interface<br>CPI installation system<br>Individual connection<br>Fieldbus<br>Multi-pin plug             |
| Electrical I/O system                        | yes                                                                                                        |
| Terminal type                                | 10                                                                                                         |
| 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)                 |
| Media temperature                            | -5 °C ... 50 °C                                                                                            |
| Ambient temperature                          | -5 °C ... 50 °C                                                                                            |
| Storage temperature                          | -20 °C ... 40 °C                                                                                           |
| Degree of protection                         | IP65                                                                                                       |
| Corrosion resistance class CRC               | 1 - Low corrosion stress<br>2 - Moderate corrosion stress                                                  |
| Vibration resistance                         | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6                           |
| Shock resistance                             | Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27                                          |
| Operating pressure                           | -0.09 MPa ... 1 MPa                                                                                        |
| Operating pressure                           | -0.9 bar ... 10 bar                                                                                        |
| Note on operating pressure                   | 0 - 0.8 MPa with ext. pilot air<br>0 - 8 bar with external pilot air                                       |
| Pilot pressure                               | 0.3 MPa ... 0.8 MPa                                                                                        |
| Pilot pressure                               | 3 bar ... 8 bar                                                                                            |
| LABS (PWIS) conformity                       | VDMA24364-B1/B2-L                                                                                          |
| CE mark (see declaration of conformity)      | To EU EMC Directive<br>To EU Explosion Protection Directive (ATEX)<br>In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK EX instructions<br>To UK RoHS instructions                             |
| KC mark                                      | KC-EMV                                                                                                     |
| Approval                                     | RCM trademark<br>c UL us - Recognized (OL)                                                                 |
| Explosion protection                         | Class I, Div. 2 (US)<br>Zone 2 (ATEX)<br>Zone 2 (UKEX)                                                     |
| ATEX category gas                            | II 3G                                                                                                      |

| Feature                                           | Value                                                              |
|---------------------------------------------------|--------------------------------------------------------------------|
| Explosion protection certification outside the EU | EPL Gc (GB)<br>NEC 500 Class I, Div. 2                             |
| Explosion ignition protection type for gas        | Ex ec IIC T4 Gc X                                                  |
| Explosion ambient temperature                     | -5 °C ≤ Ta ≤ +50 °C                                                |
| Note on materials                                 | RoHS-compliant                                                     |
| Valve terminal structure                          | Fixed grid                                                         |
| Max. number of valve positions                    | 8                                                                  |
| Max. number of valve functions                    | 16                                                                 |
| Max. number of pressure zones                     | 2                                                                  |
| Type of actuation                                 | Electric                                                           |
| Valve function                                    | Vacuum generator<br>Vacuum generator + 2/2-way, closed, monostable |
| Design                                            | Piston gate valve                                                  |
| Sealing principle                                 | Soft                                                               |
| Valve size                                        | 10 mm                                                              |
| Pilot air supply                                  | External<br>Internal                                               |
| Max. standard nominal flow rate                   | 400 l/min at 10 mm                                                 |
| Nominal size                                      | 4 mm                                                               |
| Suitability for vacuum                            | yes                                                                |
| pneumatic working port                            | M7<br>QS-4<br>QS-6<br>QS-1/8<br>QS-1/4                             |
| Pneumatic connection, port 1                      | Common line                                                        |
| Pneumatic connection, port 2                      | M7                                                                 |
| Pneumatic connection, port 3                      | Common line                                                        |
| Pneumatic connection, port 4                      | M7                                                                 |
| Pilot air port 12/14                              | Common line                                                        |
| Pilot exhaust port 82/84                          | Common line                                                        |
| Signal status display                             | LED                                                                |
| Nominal operating voltage DC                      | 24 V                                                               |