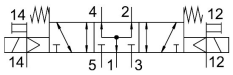
# Solenoid valve
# VSVA-B-P53U-ZH-D1-F8

Part number: 8198570






## Data sheet

| Feature | Value |
|---|---|
| Valve function | 5/3-way, pressurised |
| Type of actuation | Electrical |
| Construction width | 42 mm |
| Nominal flow rate standardised according to ISO 8778 | 1600 l/min |
| pneumatic working port | Sub-base size 1 to ISO 5599-1 |
| Operating pressure | -0.09 MPa...1.6 MPa<br>-0.9 bar...16 bar |
| Design | Piston gate valve |
| Type of reset | Mechanical spring |
| Degree of protection | IP65<br>NEMA 4 |
| Nominal size | 8 mm |
| Grid dimension | 43 mm |
| Exhaust-air function | Can be throttled<br>Via individual sub-base |
| Sealing principle | Soft |
| Mounting position | Any |
| Conforms to standard | ISO 5599-1 |
| Manual override | Non-detenting |
| Type of piloting | Piloted |
| Pilot air supply | External |
| Flow direction | Reversible |
| lap | Overlap |
| Pilot pressure | 0.3 MPa...1 MPa<br>3 bar...10 bar |
| Suitability for vacuum | Yes |
| b value | 0.14 |
| C value | 6.799 l/sbar |
| Flow rate of valve | 1500 l/min |
| Flow rate of valve on individual sub-base | 1300 l/min |
| Valve flow rate, pneumatically linked, flow optimized | 1400 l/min |
| Flow rate of pneumatically interlinked valve | 1200 l/min |

| Feature | Value |
|---|---|
| Max. switching frequency | 5 Hz |
| Switching time off | 55 ms |
| Switching time on | 22 ms |
| Switching time reversal | 27 ms |
| Duty cycle | 100% |
| 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) |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Media temperature | -10 °C...50 °C |
| Relative air humidity | 0 - 90% |
| Sound pressure level | 85 dB(A) |
| Pilot medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Ambient temperature | -10 °C...50 °C |
| Max. tightening torque for valve mounting | 1 Nm |
| Product weight | 405 g |
| Type of mounting | On sub-base |
| Pilot exhaust port 82 | M5<br>Not ducted |
| Pilot exhaust port 84 | M5<br>Not ducted |
| Pilot air port 12 | Sub-base size 1 to ISO 5599-1 |
| Pilot air port 14 | Sub-base size 1 to ISO 5599-1 |
| Pneumatic connection, port 1 | Sub-base size 1 to ISO 5599-1 |
| Pneumatic connection, port 2 | Sub-base size 1 to ISO 5599-1 |
| Pneumatic connection, port 3 | Sub-base size 1 to ISO 5599-1 |
| Pneumatic connection, port 4 | Sub-base size 1 to ISO 5599-1 |
| Pneumatic connection, port 5 | Sub-base size 1 to ISO 5599-1 |
| Pilot control interface | To ISO 15218 |
| Note on materials | RoHS compliant |
| Material seals | NBR |
| Material housing | Die-cast aluminium |
| Material screws | Steel |