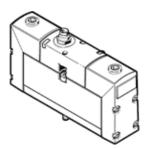
## solenoid valve VSVA-B-P53C-ZH-A1-1R2L Part number: 534529

**FESTO** 

with central plug, round design M8x1.



## **Data sheet**

| Feature                                      | Value                          |
|--|--------------------------------|
| Valve function                               | 5/3 closed                     |
| Type of actuation                            | electrical                     |
| Width  | 26 mm                          |
| Standard nominal flow rate                   | 1,000 l/min                    |
| Operating pressure MPa                       | -0.09 1.6 MPa                  |
| Operating pressure                           | -0.9 16 bar                    |
| Design structure                             | Piston slide                   |
| Type of reset                                | mechanical spring              |
| Authorisation                                | RCM Mark                       |
|  | c UL us - Recognized (OL)      |
| CE mark (see declaration of conformity)      | to EU directive for EMC        |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC     |
| ,      | To UK RoHS instructions        |
| Protection class                             | IP65                           |
|  | NEMA 4                         |
| Nominal size                                 | 9 mm                           |
| Grid dimension                               | 27 mm                          |
| Exhaust-air function                         | throttleable                   |
|  | Via throttle plate             |
|  | Via individual sub-base        |
| Sealing principle                            | soft                           |
| Assembly position                            | Any                            |
| Conforms to standard                         | ISO 15407-1                    |
| Manual override                              | Pushing                        |
| Type of piloting                             | Piloted                        |
| Pilot air supply                             | external                       |
| Flow direction                               | Any                            |
| Overlap                                      | Positive overlap               |
| Polarity protected                           | for all electrical connections |
| Additional functions                         | Reduction of holding current   |
|  | Safety shut-off                |
| Signal status display                        | LED                            |
| Pilot pressure MPa                           | 0.3 0.8 MPa                    |
| Pilot pressure                               | 3 8 bar                        |
| b value                                      | 0.24                           |
| C value                                      | 4.35 l/sbar                    |
| Flow rate of valve                           | 1,400 l/min                    |
| Flow rate of valve on individual sub-base    | 1,100 l/min                    |
| Flow rate of pneumatically linked valve      | 1,000 l/min                    |
| Switching time off                           | 52 ms                          |
| Switching time on                            | 20 ms                          |
| Duty cycle                                   | 100 %                          |
| Max. positive test pulse with logic 0        | 400 μs                         |
| Max. negative test pulse with logic 1        | 100 μs                         |
| man. negative test putse with togic 1        | _ 100 μs                       |



| Feature  | Value  |
|--|--|
| Nominal breakaway current per solenoid coil    | 110 mA up to 20 ms   |
| Nominal current with current reduction         | 30 mA after 20 ms  |
| Characteristic coil data                       | 24 V DC: low-current phase 1 W, high-current phase 2.4 W                                       |
| Permissible voltage fluctuation                | +/- 10 %   |
| Operating medium                               | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                                       |
| Note on operating and pilot medium             | Lubricated operation possible (subsequently required for further operation)                    |
| Vibration resistance                           | Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 |
| Shock resistance                               | Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27              |
| Corrosion resistance classification CRC        | 2 - Moderate corrosion stress  |
| PWIS conformity                                | VDMA24364-B1/B2-L  |
| Medium temperature                             | -5 50 °C   |
| Relative air humidity                          | 0 - 90 %   |
| Protection against direct and indirect contact | Protective extra-low voltage with safe disconnection (PELV)                                    |
| Pilot medium                                   | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                                       |
| Ambient temperature                            | -5 50 °C   |
| Max. tightening torque, valve mounting         | 1.8 2.2 Nm   |
| Product weight                                 | 270 g  |
| Electrical connection                          | 4-pin  |
|  | M8x1   |
|  | Central plug   |
|  | Round design   |
| Mounting type                                  | On sub-base  |
|  | With through-hole and screw  |
| Auxiliary pilot air port 12/14                 | Connection plate size 26 mm, according to ISO 15407-1  |
| Pilot exhaust port 82/84                       | Optional   |
|  | Not ducted as per standard   |
|  | Ducted   |
| Materials note                                 | Conforms to RoHS   |
| Material seals                                 | FPM  |
|  | HNBR   |
|  | NBR  |
| Material housing                               | Aluminium die cast   |