

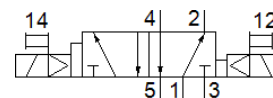
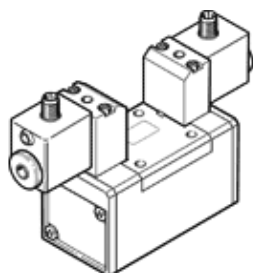
# solenoid valve

## JMDDH-5/2-D-2-M12D-C

Part number: 540817

FESTO

With M12 plug connection.



## Data sheet

| Feature                               | Value                                                                                          |
|---------------------------------------|------------------------------------------------------------------------------------------------|
| Valve function                        | 5/2 bistable-dominant                                                                          |
| Type of actuation                     | electrical                                                                                     |
| Width                                 | 54 mm                                                                                          |
| Standard nominal flow rate            | 2,300 l/min                                                                                    |
| Operating pressure                    | 2 ... 10 bar                                                                                   |
| Design structure                      | Piston slide                                                                                   |
| Protection class                      | IP65                                                                                           |
| Nominal size                          | 11.5 mm                                                                                        |
| Grid dimension                        | 56 mm                                                                                          |
| Exhaust-air function                  | throttleable                                                                                   |
| Sealing principle                     | soft                                                                                           |
| Assembly position                     | Any                                                                                            |
| Conforms to standard                  | ISO 5599-1                                                                                     |
| Manual override                       | Pushing                                                                                        |
| ISO code                              | 269                                                                                            |
| Type of piloting                      | Piloted                                                                                        |
| Pilot air supply                      | Internal                                                                                       |
| Flow direction                        | non reversible                                                                                 |
| Overlap                               | Positive overlap                                                                               |
| Switching time reversal               | 20 ms                                                                                          |
| Switching time reversal (dominating)  | 20 ms                                                                                          |
| Duty cycle                            | 100 %                                                                                          |
| Max. positive test pulse with logic 0 | 3,800 µs                                                                                       |
| Max. negative test pulse with logic 1 | 4,900 µs                                                                                       |
| Characteristic coil data              | 24 V DC: 2.7 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 1 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              |
| Medium temperature                    | -10 ... 50 °C                                                                                  |
| Sound pressure level                  | 85 dB(A)                                                                                       |
| Ambient temperature                   | -10 ... 50 °C                                                                                  |
| Product weight                        | 940 g                                                                                          |
| Electrical connection                 | M12x1                                                                                          |
| Mounting type                         | On sub-base<br>With through-hole and screw                                                     |
| Pilot exhaust port 82                 | M5                                                                                             |
| Pilot exhaust port 84                 | M5                                                                                             |
| Pneumatic connection, port 1          | Connection plate size 3 as per ISO 5599-1                                                      |
| Pneumatic connection, port 2          | Connection plate size 2 as per ISO 5599-1                                                      |

| Feature                      | Value                                     |
|------------------------------|-------------------------------------------|
| Pneumatic connection, port 3 | Connection plate size 2 as per ISO 5599-1 |
| Pneumatic connection, port 4 | Connection plate size 2 as per ISO 5599-1 |
| Pneumatic connection, port 5 | Connection plate size 2 as per ISO 5599-1 |
| Materials note               | Conforms to RoHS                          |
| Material seals               | HNBR<br>NBR                               |
| Material housing             | Aluminium die cast                        |