

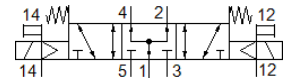
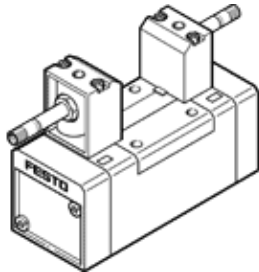
# solenoid valve

## MFH-5/3B-D-1-S-C-EX

Part number: 535984

FESTO

With manual override, without solenoid coil or socket. Solenoid coil and socket should be ordered separately.



## Data sheet

| Feature                                 | Value  |
|---|--|
| Valve function                          | 5/3 pressurised  |
| Type of actuation                       | electrical   |
| Width                                   | 42 mm  |
| Standard nominal flow rate              | 1,200 l/min  |
| Operating pressure                      | -0.9 ... 16 bar  |
| Design structure                        | Piston slide   |
| Type of reset                           | mechanical spring  |
| CE mark (see declaration of conformity) | to EU directive explosion protection (ATEX)  |
| ATEX category Gas                       | II 2G  |
| ATEX category Dust                      | II 2D  |
| Explosion ignition protection type Gas  | Ex h IIC T4 Gb   |
| Explosion ignition protection type Dust | Ex h IIIC T105°C Db  |
| Explosion-proof ambient temperature     | -5°C ≤ Ta ≤ +40°C  |
| Protection class                        | IP65   |
| Nominal size                            | 8 mm   |
| Grid dimension                          | 43 mm  |
| Exhaust-air function                    | throttleable   |
| Sealing principle                       | soft   |
| Assembly position                       | Any  |
| Conforms to standard                    | ISO 5599-1   |
| Manual override                         | with accessories, detenting<br>Pushing   |
| ISO code                                | 169  |
| Type of piloting                        | Piloted  |
| Pilot air supply                        | external   |
| Flow direction                          | reversible   |
| Overlap                                 | Positive overlap   |
| Pilot pressure                          | 3 ... 10 bar   |
| Switching time off                      | 36 ms  |
| Switching time on                       | 18 ms  |
| Max. positive test pulse with logic 0   | 2,200 µs   |
| Max. negative test pulse with logic 1   | 3,700 µs   |
| 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                      | -5 ... 40 °C   |
| Sound pressure level                    | 85 dB(A)   |
| Pilot medium                            | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                                       |
| Ambient temperature                     | -5 ... 40 °C   |

| Feature                      | Value                                     |
|------------------------------|---|
| Product weight               | 520 g                                     |
| Electrical connection        | Via F coil, must be ordered separately    |
| Mounting type                | On sub-base<br>with through hole          |
| Pilot air port 12            | Connection plate size 1 as per ISO 5599-1 |
| Pilot air port 14            | Connection plate size 1 as per ISO 5599-1 |
| Pneumatic connection, port 1 | Connection plate size 1 as per ISO 5599-1 |
| Pneumatic connection, port 2 | Connection plate size 1 as per ISO 5599-1 |
| Pneumatic connection, port 3 | Connection plate size 1 as per ISO 5599-1 |
| Pneumatic connection, port 4 | Connection plate size 1 as per ISO 5599-1 |
| Pneumatic connection, port 5 | Connection plate size 1 as per ISO 5599-1 |
| Materials note               | Conforms to RoHS                          |
| Material seals               | HNBR<br>NBR                               |
| Material housing             | Aluminium die cast                        |