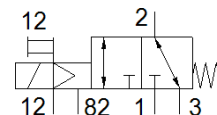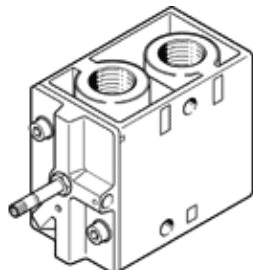# Solenoid valve
MFH-3-1/2-S-EX
Part number: 535902

FESTO

With manual override, without solenoid coil or socket. Solenoid coil and socket should be ordered separately.
This type is suitable for vacuum.

Data sheet

Feature	Value
Valve function	3/2 closed, monostable
Type of actuation	electrical
Width	52 mm
Standard nominal flow rate	3,700 l/min
Working pressure	-0.95 ... 10 bar
Design structure	Poppet seat
Type of reset	mechanical spring
Protection class	IP65
Nominal size	14 mm
Grid dimension	69 mm
Exhaust-air function	throttleable
Sealing principle	soft
Assembly position	Any
Manual override	detenting
Type of piloting	Piloted
Pilot air supply	external
Flow direction	reversible with restrictions
Freedom from overlap	No
Pilot pressure	1 ... 8 bar
b value	0.3
Switching time off	90 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
Characteristic coil data	See solenoid coil, to be ordered separately
ATEX category Gas	II 2G
Explosion ignition protection type Gas	c T4
ATEX category Dust	II 2D
Explosion ignition protection type Dust	c 130°C
Explosion-proof ambient temperature	-5°C <= Ta <= +40°C
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)
CE symbol (see declaration of conformity)	according to EU-Ex protection guideline (ATEX)
Corrosion resistance classification CRC	1 - Low corrosion stress
Storage temperature	-20 ... 60 °C
Medium temperature	-5 ... 40 °C
Pilot medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Ambient temperature	-5 ... 40 °C
Product weight	1,100 g
Electrical connection	Via F coil, must be ordered separately
Mounting type	Optional

Feature	Value
	on manifold rail
	with through hole
Scavenging orifice connection	M5
Pilot exhaust port 82	M5
Pilot air port 12	G1/8
Pneumatic connection, port 1	G1/2
Pneumatic connection, port 2	G1/2
Pneumatic connection, port 3	G1/2
Materials note	Conforms to RoHS
Material seals	NBR
Material housing	Aluminum die cast