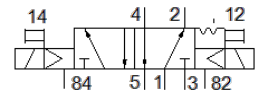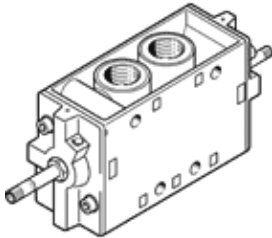# solenoid valve
JMFH-5-1/2-EX
Part number: 535914

FESTO

With manual overrides, without solenoid coils or sockets. Solenoid coils and sockets should be ordered separately.

Data sheet

Feature	Value
Valve function	5/2 bistable
Type of actuation	electrical
Width	52 mm
Standard nominal flow rate	4,500 l/min
Operating pressure	2 ... 8 bar
Design structure	Poppet seat
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 T130°C Db
Explosion-proof ambient temperature	-5°C <= Ta <= +40°C
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
Flow direction	non reversible
Overlap	Underlap
b value	0.3
C value	19.5 l/sbar
Max. switching frequency	25 Hz
Switching time reversal	20 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
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)
Corrosion resistance classification CRC	1 - Low corrosion stress
Storage temperature	-20 ... 60 °C
Medium temperature	-5 ... 40 °C
Pilot medium	L12
Ambient temperature	-5 ... 40 °C
Product weight	1,210 g
Electrical connection	Via F coil, must be ordered separately
Mounting type	on manifold rail with through hole Optional
Scavenging orifice connection	M5

Feature	Value
Pilot exhaust port 82	M5
Pilot exhaust port 84	M5
Pneumatic connection, port 1	G1/2
Pneumatic connection, port 2	G1/2
Pneumatic connection, port 3	G1/2
Pneumatic connection, port 4	G1/2
Pneumatic connection, port 5	G1/2
Materials note	Conforms to RoHS
Material seals	NBR
	TPE-U(PU)
Material housing	Aluminium die cast