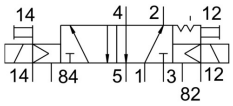
Air solenoid valve
JMFH-5-1/2-S-EX

Part number: 535917





Data sheet

Feature	Value
Valve function	5/2, bistable
Actuation type	Electrical
Width	52 mm
Standard nominal flow rate	4500 l/min
Pneumatic working port	G1/2
Operating voltage	Via solenoid coil, to be ordered separately
Operating pressure	0 MPa ... 0.8 MPa
Operating pressure	0 bar ... 8 bar
Structural design	Plate seat
CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
ATEX category gas	II 2G
ATEX category for dust	II 2D
Type of ignition protection for gas	Ex h IIC T4 Gb
Type of (ignition) protection for dust	Ex h IIIC T130°C Db
Explosive ambient temperature	-5°C <= Ta <= +40°C
Degree of protection	IP65
Nominal width	14 mm
Width dimension	69 mm
Type code	JMFH
Exhaust air function	With flow control option
Sealing principle	Soft
Mounting position	Any
Manual override	Detenting
Type of control	Pilot-controlled
Pilot air supply port	External
Flow direction	Non-reversible
Symbol	00995755
Lap	Underlap
Pilot pressure MPa	0.1 MPa ... 0.8 MPa
Pilot pressure	1 bar ... 8 bar
b-value	0.3
C value	19.5 l/sbar
Max. switching frequency	25 Hz
Changeover time	20 ms
Max. positive test pulse with 0 signal	2200 µs
Max. negative test pulse on 1 signal	3700 µs

Feature	Value
Coil characteristics	See solenoid coil, to be ordered separately
Explosion prevention and protection	Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	1 - Low corrosion stress
Storage temperature	-20 °C ... 60 °C
Temperature of medium	-5 °C ... 40 °C
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature	-5 °C ... 40 °C
Product weight	1210 g
Electrical connection	Via F coil, to be ordered separately
Type of mounting	Optionally: On terminal strip With through-hole
Auxiliary pilot air port 12	G1/8
Auxiliary pilot air port 14	G1/8
Venting hole connection	M5
Pilot exhaust air port 82	M5
Pilot exhaust air port 84	M5
Pilot air port 12	G1/8
Pneumatic connection 1	G1/2
Pneumatic connection 2	G1/2
Pneumatic connection 3	G1/2
Pneumatic connection 4	G1/2
Pneumatic connection 5	G1/2
Note on materials	RoHS-compliant
Seals material	NBR TPE-U(PU)
Housing material	Die-cast aluminum