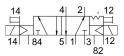
## Solenoid valve JMFH-5-1/2-S Part number: 35548



## **Data sheet**

InternationElectricConstruction width52 mmStandard nominal flow rate (standardised to DIN 1343)4500 l/minpneumatic working portG1/2Operating voltage0 MPa0.8 MPa 0 bar8 barOperating ressure0 MPa0.8 MPa 0 bar8 barDesignPoppet seat 4 ApprovalApprovalc UL us - Recognized (OL)Degree of protectionIP65Nominal size14 mmGrid dimension69 mmExhaust-air functionSoftMounting positionoptionalMounting positionoptionalMaual overrideDetentingPilot air supplyExternalFlow directionNon-reversibleIdapUnderlapPilot pressure0.05 MPa0.8 MPa 0.5 bar 8 barO tart as a supplyExternalStandarding frequency25 HzSupply200 µsMax. ngative test pulse with 0 signal3700 µsSwitching time reversal3700 µsMax. ngative test pulse with 1 signal3700 µsCharacteristic coil dataSee solenoid coil, to be ordered separately	Feature	Value
Construction width52 mmStandard nominal flow rate (standardised to DIN 1343)4500 l/minpneumatic working portG1/2Operating voltageVia solenoid coil, must be ordered separatelyOperating pressureOMPa0.8 MPa o bar8 barDesignPoppet seatApprovalc UL us - Recognized (OL)Degree of protectionIP65Nominal size14 mmGrid dimension69 mmExhaust-air functionWith flow control optionSealing principleSoftMounal gostionoptionalManual overrideDetentingPlot ar supplyExternalFlow directionNon-reversibleIapUnderlapPlot pressure0.3C value0.3C value20 shar8 barb value20 smMax, negative test pulse with 0 signal20 op sMax, negative test pulse with 1 signal3700 psCharacteristic coil dataSee solenoid coil, to be ordered separately	Valve function	5/2 double solenoid
Standard nominal flow rate (standardised to DIN 1343) 4500 l/min   pneumatic working port G1/2   Operating voltage Via solenoid coil, must be ordered separately   Operating pressure 0 MPa0.8 MPa   Obsr8 bar 0 bar8 bar   Design Poppet seat   Approval c UL us - Recognized (OL)   Degree of protection IP65   Nominal size 14 mm   Grid dimension 69 mm   Exhaust-air function With flow control option   Sealing principle Soft   Mounting position optional   Manual override Detenting   Pilot air supply External   Flow direction Non-reversible   lap Underlap   Pilot pressure 0.5 MPa0.8 MPa   0.5 bar8 bar 0.5 bar8 bar   b value 0.3   C value 19.5 l/sbar   Max. switching frequency 25 Hz   Switching time reversal 200 ms   Max. negative test pulse with 0 signal 2200 µs   Max. negative test pulse with 0 signal 3700 µs	Type of actuation	Electric
pneumatic working portG1/2Operating voltageVia solenoid coil, must be ordered separatelyOperating pressure0 MPa0.8 MPa 0 bar8 barDesignPoppet seatApprovalc UL us - Recognized (OL)Degree of protectionIP65Nominal size14 mmGrid dimension69 mmExhaust-air functionSoftMounting positionoptionalMounting positionoptionalMounting positionDetentingType of pilotingPilot actuatedPilot air supplyExternalRow directionNon-reversiblelapUnderlapValue0.3C value19.5 I/sbarMax. switching frequency25 HzSwitching time reversal200 µsMax, negative test pulse with 0 signal3700 µsCharacteristic coil dataSee solenoid coil, to be ordered separately	Construction width	52 mm
Operating voltageVia solenoid coil, must be ordered separatelyOperating pressure0 MPa0.8 MPa 0 bar8 barDesignPoppet seatApprovalc UL us - Recognized (OL)Degree of protectionIP65Nominal size14 mmGrid dimension69 mmExhaust-air functionWith flow control optionSealing principleSoftMounting positionoptionalMaual overrideDetentingPilot actuatedPilot actuatedFlow directionNon-reversibleIapUnderlapVia totue0.3C value0.3Ka switching frequency25 HzSwitching time reversal200 µsMax. negative test pulse with 0 signal3700 µsCharacteristic coil dataSee solenoid coil, to be ordered separately	Standard nominal flow rate (standardised to DIN 1343)	4500 l/min
Operating pressureO MPa0.8 MPa O bar8 barDesignPoppet seatApprovalc UL us - Recognized (OL)Degree of protectionIP65Nominal size14 mmGrid dimension69 mmExhaust-air functionWith flow control optionSealing principleSoftMounting positionoptionalManual overrideDetentingPilot arcustedNon-reversibleIapUnderlapPilot pressure0.05 MPa0.8 MPa 0.5 bar8 barb value0.3C value19.5 I/sbarMax. switching frequency25 HzSwitching time reversal200 µsMax. negative test pulse with 0 signal3700 µsCharacteristic coil dataSee solenoid coil, to be ordered separately	pneumatic working port	G1/2
DesignO bar8 barDesignPoppet seatApprovalc UL us - Recognized (OL)Degree of protectionIP65Nominal size14 mmGrid dimension69 mmExhaust-air functionWith flow control optionSealing principleSoftMounting positionoptionalMounting positionDetentingType of pilotingPilot actuatedPilot artuatedNon-reversibleIapUnderlapPilot pressure0.5 MPA0.8 MPA 0.5 bar8 barb value0.3C value19.5 I/sbarMax. switching frequency25 HzSwitching time reversal200 µsMax. negative test pulse with 1 signal3700 µsC haracteristic coil dataSee solenoid coil, to be ordered separately	Operating voltage	Via solenoid coil, must be ordered separately
Approvalc UL us - Recognized (OL)Degree of protectionIP65Nominal size14 mmGrid dimension69 mmExhaust-air functionWith flow control optionSealing principleSoftMounting positionoptionalManual overrideDetentingType of pilotingPilot actuatedPilot air supplyExternalRow directionNon-reversiblelapUnderlapPilot pressure0.5 MPa0.8 MPa 0.5 bar8 barb value0.3C value19.5 1/sbarMax. switching frequency25 HzSwitching time reversal3700 μsMax. negative test pulse with 1 signal3700 μsCharacteristic coil dataSee solenoid coil, to be ordered separately	Operating pressure	
Degree of protectionIP65Nominal size14 mmGrid dimension69 mmExhaust-air functionWith flow control optionSealing principleSoftMounting positionoptionalManual overrideDetentingType of pilotingPilot actuatedPilot air supplyExternalFlow directionNon-reversiblelapUnderlapPilot pressure0.5 MPa0.8 MPa 0.5 bar8 barb value0.3C value19.5 l/sbarMax. switching frequency25 HzSwitching time reversal200 µsMax. negative test pulse with 0 signal3700 µsCharacteristic coil dataSee solenoid coil, to be ordered separately	Design	Poppet seat
Nominal size14 mmGrid dimension69 mmExhaust air functionWith flow control optionSealing principleSoftMounting positionoptionalManual overrideDetentingType of pilotingPilot actuatedPilot air supplyExternalFlow directionNon-reversiblelapUnderlapPilot pressure0.5 MPa0.8 MPa 0.5 bar8 barb value0.3C value19.5 1/sbarMax. switching frequency25 HzSwitching time reversal200 µsMax. negative test pulse with 0 signal3700 µsCharacteristic coil dataSee solenoid coil, to be ordered separately	Approval	c UL us - Recognized (OL)
Grid dimension69 mmExhaust-air functionWith flow control optionSealing principleSoftMounting positionoptionalManual overrideDetentingType of pilotingPilot actuatedPilot air supplyExternalFlow directionNon-reversiblelapUnderlapPilot pressure0.5 MPa0.8 MPa 0.5 bar8 barb value0.3C value19.5 l/sbarMax. switching frequency25 HzSwitching time reversal200 µsMax. negative test pulse with 0 signal3700 µsCharacteristic coil dataSee solenoid coil, to be ordered separately	Degree of protection	IP65
Exhaust-air functionWith flow control optionSealing principleSoftMounting positionoptionalManual overrideDetentingType of pilotingPilot actuatedPilot air supplyExternalFlow directionNon-reversiblelapUnderlapPilot pressure0.05 MPa0.8 MPa 0.5 bar8 barb value0.3C value19.5 l/sbarMax. switching frequency25 HzSwitching time reversal200 µsMax. negative test pulse with 0 signal3700 µsCharacteristic coil dataSee solenoid coil, to be ordered separately	Nominal size	14 mm
Sealing principleSoftMounting positionoptionalManual overrideDetentingType of pilotingPilot actuatedPilot air supplyExternalFlow directionNon-reversiblelapUnderlapPilot pressure0.05 MPa0.8 MPa 0.5 bar8 barb value0.3C value19.5 l/sbarSwitching frequency25 HzSwitching time reversal200 µsMax. negative test pulse with 0 signal3700 µsCharacteristic coil dataSee solenoid coil, to be ordered separately	Grid dimension	69 mm
Non-trig positionoptionalManual overrideDetentingType of pilotingPilot actuatedPilot air supplyExternalFlow directionNon-reversiblelapUnderlapPilot pressure0.05 MPa0.8 MPa 0.5 bar8 barb value0.3C value19.5 1/sbarMax. switching frequency25 HzSwitching time reversal200 µsMax. negative test pulse with 0 signal3700 µsCharacteristic coil dataSee solenoid coil, to be ordered separately	Exhaust-air function	With flow control option
Manual overrideDetentingType of pilotingPilot actuatedPilot air supplyExternalFlow directionNon-reversiblelapUnderlapPilot pressure0.05 MPa0.8 MPa 0.5 bar8 barb value0.3C value19.5 l/sbarMax. switching frequency25 HzSwitching time reversal20 msMax. negative test pulse with 0 signal3700 μsCharacteristic coil dataSee solenoid coil, to be ordered separately	Sealing principle	Soft
Type of pilotingPilot actuatedPilot air supplyExternalFlow directionNon-reversiblelapUnderlapPilot pressure0.05 MPa0.8 MPa 0.5 bar8 barb value0.3C value19.5 l/sbarMax. switching frequency25 HzSwitching time reversal20 msMax. positive test pulse with 0 signal2200 µsMax. negative test pulse with 1 signal3700 µsCharacteristic coil dataSee solenoid coil, to be ordered separately	Mounting position	optional
Pilot air supplyExternalFlow directionNon-reversiblelapUnderlapPilot pressure0.05 MPa0.8 MPa 0.5 bar8 barb value0.3C value0.3Max. switching frequency25 HzSwitching time reversal20 msMax. positive test pulse with 0 signal2200 μsMax. negative test pulse with 1 signal3700 μsCharacteristic coil dataSee solenoid coil, to be ordered separately	Manual override	Detenting
Flow directionNon-reversiblelapUnderlapPilot pressure0.05 MPa0.8 MPa 0.5 bar8 barb value0.3C value19.5 l/sbarMax. switching frequency25 HzSwitching time reversal20 msMax. positive test pulse with 0 signal2200 μsMax. negative test pulse with 1 signal3700 μsCharacteristic coil dataSee solenoid coil, to be ordered separately	Type of piloting	Pilot actuated
Iard and the second	Pilot air supply	External
Pilot pressure0.05 MPa0.8 MPa 0.5 bar8 barb value0.3C value19.5 l/sbarMax. switching frequency25 HzSwitching time reversal20 msMax. positive test pulse with 0 signal2200 μsMax. negative test pulse with 1 signal3700 μsCharacteristic coil dataSee solenoid coil, to be ordered separately	Flow direction	Non-reversible
0.5 bar8 barb value0.3C value19.5 l/sbarMax. switching frequency25 HzSwitching time reversal20 msMax. positive test pulse with 0 signal2200 µsMax. negative test pulse with 1 signal3700 µsCharacteristic coil dataSee solenoid coil, to be ordered separately	lap	Underlap
C value19.5 l/sbarMax. switching frequency25 HzSwitching time reversal20 msMax. positive test pulse with 0 signal2200 μsMax. negative test pulse with 1 signal3700 μsCharacteristic coil dataSee solenoid coil, to be ordered separately	Pilot pressure	
Max. switching frequency25 HzSwitching time reversal20 msMax. positive test pulse with 0 signal2200 µsMax. negative test pulse with 1 signal3700 µsCharacteristic coil dataSee solenoid coil, to be ordered separately	b value	0.3
Switching time reversal20 msMax. positive test pulse with 0 signal2200 µsMax. negative test pulse with 1 signal3700 µsCharacteristic coil dataSee solenoid coil, to be ordered separately	C value	19.5 l/sbar
Max. positive test pulse with 0 signal2200 μsMax. negative test pulse with 1 signal3700 μsCharacteristic coil dataSee solenoid coil, to be ordered separately	Max. switching frequency	25 Hz
Max. negative test pulse with 1 signal 3700 μs   Characteristic coil data See solenoid coil, to be ordered separately	Switching time reversal	20 ms
Characteristic coil data See solenoid coil, to be ordered separately	Max. positive test pulse with 0 signal	2200 µs
	Max. negative test pulse with 1 signal	3700 μs
Operating medium Compressed air to ISO 8573-1:2010 [7:4:4]	Characteristic coil data	See solenoid coil, to be ordered separately
	Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]

**FESTO** 



Feature	Value
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Corrosion resistance class CRC	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Storage temperature	-20 °C60 °C
Media temperature	-10 °C60 °C
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Ambient temperature	-5 °C40 °C
Product weight	1210 g
Electrical connection	Via F coil, to be ordered separately
Type of mounting	On manifold rail With through-hole Either:
Auxiliary pilot air port 12	G1/8
Auxiliary pilot air port 14	G1/8
Pilot exhaust port 82	M5
Pilot exhaust port 84	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
Pneumatic connection, port 4	G1/2
Pneumatic connection, port 5	G1/2
Note on materials	RoHS-compliant
Material seals	NBR TPE-U(PU)
Material housing	Die-cast aluminium