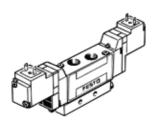
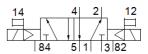
solenoid valve JMEH-5/2-1/8-B Part number: 173431

FESTO

With solenoid coils and manual override, without plug sockets.





Data sheet

Valve function Si2 bistable Type of actuation electrical Width 17.8 mm Standard nominal flow rate 650 l/min Operating pressure 1.5 8 bar Design structure Piston slide Type of reset Air spring Protection class IP65 Authorisation c UL us - Recognized (OL) Nominal size 5 mm Grid dimension 18 mm Exhaust-air function throttleable Sealing principle soft Assembly position Any Manual override with accessories, detenting Type of piloting Piloted Pilot air supply Internal Internal Yes Note on forced dynamisation Switching frequency at least once a week Pilot pressure 1.5 8 bar b value 0.42 c value 3.25 lisbar Switching time reversal 10 ms Duty cycle 100% Characteristic coil data 24 V DC: 1.5 W <	Feature	values
Midth 17.8 mm Standard nominal flow rate 650 l/min 650 l	Valve function	5/2 bistable
Standard nominal flow rate Operating pressure 1.5 8 bar Operating pressure Piston slide Type of reset Protection class IP65 Authorisation c UL us - Recognized (OL) Nominal size 5 mm Grid dimension Exhaust-air function Sealing principle Assembly position Any Manual override Type of piloting Piloted	Type of actuation	electrical
Design structure	Width	17.8 mm
Design structure Piston slide Type of reset Air spring Protection class IP65 Authorisation c UL us - Recognized (OL) Nominal size 5 mm Grid dimension 18 mm Exhaust-air function Sealing principle Sealing princip	Standard nominal flow rate	650 l/min
Type of reset Protection class IP65 Authorisation C UL us - Recognized (OL) Nominal size S mm Grid dimension IB mm Exhaust-air function Sealing principle Assembly position Amanual override With accessories, detenting Pilot air supply Flood ground dynamisation Note on forced dynamisation Switching frequency at least once a week Pilot proseure Value C value 3.25 l/sbar Switching frequency at least once a week Pilot proseure 1.5 8 bar 10 ms Duty cycle Characteristic coil data Outy cycle Chara	Operating pressure	1.5 8 bar
Protection class Authorisation c UL us - Recognized (OL) Nominal size 5 mm Grid dimension 18 mm Exhaust-air function Sealing principle soft Assembly position Manual override Type of piloting Piloted Pilot air supply Flot air supply Flot on forced dynamisation Freedom from overlap Note on forced dynamisation Switching frequency at least once a week Pilot pressure 1.5 8 bar 0.42 C value 3.25 //sbar Switching time reversal Duty cycle Characteristic coil data Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Ubiration resistance Transport application test at severity level 1 in accordance with FN 942017-5 and EN 9400 (2 - 0.40 °C Storage temperature - 20 40 °C Storage temperature - 5 50 °C Compressed air in accordance with ISO8573-1:2010 [7:4:4] Filot members and EN 80068-2-26 Compression classification CRC - 2 - Moderate corrosion stress Storage temperature - 5 50 °C Compressed air in accordance with ISO8573-1:2010 [7:4:4] Filot medium Compressed air in accordance with FN 942017-5 and EN 80068-2-26 Corrosion resistance - Shock test with severity level 2 in accordance with FN 942017-5 and EN 80068-2-26 Shock presistance - Shock test with severity level 2 in accordance with FN 942017-5 and EN 80068-2-27 Corrosion resistance classification CRC - 2 - Moderate corrosion stress Storage temperature - 5 50 °C Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature - 5 50 °C Compressed air in accordance with ISO8573-1:2010 [7:4:4] Pilot medium - Compressed air in accordance with ISO8573-1:2010 [7:4:4] Pilot medium - Compressed air in accordance with ISO8573-1:2010 [7:4:4] Filot medium - Compressed air in accordance with ISO8573-1:2010 [7:4:4] Pilot dedium temperature - 5 50 °C Corrolled design	Design structure	Piston slide
Authorisation c UL us - Recognized (OL) Nominal size 5 mm Grid dimension 18 mm Exhaust-air function throttleable Sealing principle soft Assembly position Any Manual override with accessories, detenting Type of piloting Piloted Pilot air supply Internal Flow direction non reversible Freedom from overlap Yes Note on forced dynamisation Switching frequency at least once a week Pilot pressure 1.5 8 bar Value 0.42 C value 3.25 l/sbar Switching time reversal 10 ms Duty cycle 100% Characteristic coil data 24 V DC: 1.5 W Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium operation) Vibration resistance Transport application test at severity level 1 in accordance with FN 942017-5 and EN 60068-2-27 Corrosion resistance classification CRC 2 - Moderate corrosion stress Storage temperature -5 50 °C Sound pressure level Product weight 142 g Electrical connection CRUsics of the compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight 142 g Electrical connection CRUsics of the compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight 142 g Electrical connection CRUsics of the compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight 142 g Electrical connection CRUsics of the compression and the compression of the compressed air in accordance with ISO8573-1:2010 [7:4:4] Cubic design	Type of reset	Air spring
Nominal size 5 mm Grid dimension 18 mm Exhaust-air function throttleable Sealing principle soft Assembly position Any Manual override with accessories, detenting Type of piloting Piloted Pilot air supply Internal Flow direction non reversible Freedom from overlap Yes Note on forced dynamisation Switching frequency at least once a week Pilot pressure 1.5 8 bar Value 0.42 C value 3.25 l/sbar Switching time reversal 10 ms Duty cycle Characteristic coil data 24 V DC: 1.5 W 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 Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 Corrosion resistance Cassification CRC 2 - Moderate corrosion stress Storage temperature -5 50 °C Sound pressure level Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight 142 g Fletcrical connection Plug Cubic design	Protection class	IP65
Grid dimension	Authorisation	c UL us - Recognized (OL)
Exhaust-air function throttleable soft soft Any soft Any Manual override with accessories, detenting Piloted Pilot air supply Piloted Pilot air supply Internal Flow direction non reversible Preedom from overlap Yes Note on forced dynamisation Switching frequency at least once a week Pilot pressure 1.5 8 bar b value 0.42 C value 3.25 l/sbar Switching time reversal 10 ms Switching time reversal 10 ms Duty cycle 100% Characteristic coil data 24 V DC: 1.5 W 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 Shock resistance Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-2 Storage temperature -20 40 °C Storage temperature -5 50 °C Sound pressure level Product weight 142 g Electrical connection Plug Cubic design	Nominal size	5 mm
Sealing principle Soft Any	Grid dimension	18 mm
Assembly position Manual override Type of piloting Pilot air supply Internal Flow direction Freedom from overlap Note on forced dynamisation Switching frequency at least once a week Pilot pressure 1.5 8 bar 5 value 5 value 5 value 5 value 6 value 7 versibing frequency at least once a week 10 ms	Exhaust-air function	throttleable
Manual override Type of piloting Pilot air supply Internal Flow direction Freedom from overlap Note on forced dynamisation Fliot air supply Note on forced dynamisation Switching frequency at least once a week Pilot pressure 1.5 8 bar b value 0.42 C value 3.25 l/sbar Switching time reversal 10 ms Dutly cycle Characteristic coil data 24 V DC: 1.5 W Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Ubircated operation possible (subsequently required for further operation) Vibration resistance Transport application test at severity level 1 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 Corrosion resistance classification CRC 2 - Moderate corrosion stress Storage temperature -20 40 °C Medium temperature -5 50 °C Sound pressure level Toduct weight Illug Cubic design	Sealing principle	soft
Type of piloting Piloted Pilot air supply Internal Pilot direction non reversible Freedom from overlap Note on forced dynamisation Switching frequency at least once a week Pilot pressure 1.5 8 bar b value 0.42 C value 3.25 l/sbar Switching time reversal 10 ms Duty cycle 100% Characteristic coil data 24 V DC: 1.5 W 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 942017-5 and EN 60068-2-6 Shock resistance Storage temperature -20 40 °C Medium temperature -5 50 °C Sound pressure level 75 dB(A) Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight Plug Cubic design	Assembly position	Any
Pilot air supply Internal Flow direction non reversible Freedom from overlap Note on forced dynamisation Switching frequency at least once a week Pilot pressure 1.5 8 bar b value 0.42 C value 3.25 l/sbar Switching time reversal 10 ms Duty cycle 100% Characteristic coil data 24 V DC: 1.5 W 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 942017-5 and EN 60068-2-6 Shock resistance Lassification CRC 2 - Moderate corrosion stress Storage temperature -20 40 °C Medium temperature -5 50 °C Sound pressure level 75 dB(A) Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight 142 g Electrical connection Compressible connection sweet subsequently required for further operation possible subsequently required for further operation accordance with FN 942017-5 and EN 60068-2-6 Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 Corrosion resistance classification CRC 2 - Moderate corrosion stress Storage temperature -20 40 °C -20 40 °C Medium temperature -5 50 °C Sound pressure level 75 dB(A) Pilot medium -70 °C Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight -70 °C Product weight -70 °C Cubic design	Manual override	with accessories, detenting
Flow direction Freedom from overlap Note on forced dynamisation Switching frequency at least once a week Pilot pressure b value 0.42 C value 3.25 l/sbar Switching time reversal 10 ms Duty cycle 1100% Characteristic coil data Q4 V DC: 1.5 W Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Uibration 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 60068-2-7 Corrosion resistance classification CRC 2 - Moderate corrosion stress Storage temperature Medium temperature 4-5 50 °C Sound pressure level Product weight Electrical connection Plug Cubic design	Type of piloting	Piloted
Freedom from overlap Yes	Pilot air supply	Internal
Note on forced dynamisation Switching frequency at least once a week Pilot pressure 1.5 8 bar 0.42 C value 3.25 l/sbar Switching time reversal 10 ms Duty cycle 100% Characteristic coil data Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium 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 60068-2-7 Corrosion resistance classification CRC 2 - Moderate corrosion stress Storage temperature -5 50 °C Sound pressure level Product weight Electrical connection Switching frequency at least once a week 1.5 8 bar 1.5 50 °C Product weight Electrical connection Plug Cubic design	Flow direction	non reversible
Pilot pressure 1.5 8 bar b value 0.42 C value 3.25 l/sbar Switching time reversal 10 ms Duty cycle 100% Characteristic coil data 24 V DC: 1.5 W 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 Corrosion resistance classification CRC 2 - Moderate corrosion stress Storage temperature -20 40 °C Medium temperature -5 50 °C Sound pressure level 75 dB(A) Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight 142 g Electrical connection Plug Cubic design	Freedom from overlap	Yes
b value C value 3.25 l/sbar Switching time reversal Duty cycle 100% Characteristic coil data Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Ubricated 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 Corrosion resistance classification CRC 2 - Moderate corrosion stress Storage temperature -20 40 °C Medium temperature -5 50 °C Sound pressure level To dB(A) Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight Electrical connection Plug Cubic design	Note on forced dynamisation	Switching frequency at least once a week
C value 3.25 l/sbar Switching time reversal 10 ms Duty cycle 100% Characteristic coil data 24 V DC: 1.5 W 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 Corrosion resistance classification CRC 2 - Moderate corrosion stress Storage temperature -20 40 °C Medium temperature -5 50 °C Sound pressure level 75 dB(A) Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight 142 g Electrical connection Plug Cubic design	Pilot pressure	1.5 8 bar
Switching time reversal Duty cycle 100% Characteristic coil data 24 V DC: 1.5 W Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Ubricated 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 Corrosion resistance classification CRC 2 - Moderate corrosion stress Storage temperature -20 40 °C Medium temperature -5 50 °C Sound pressure level Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight Electrical connection Plug Cubic design	b value	0.42
Duty cycle 100% Characteristic coil data 24 V DC: 1.5 W 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 60068-2-7 Corrosion resistance classification CRC 2 - Moderate corrosion stress Storage temperature -20 40 °C Medium temperature -5 50 °C Sound pressure level 75 dB(A) Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight 142 g Electrical connection Plug Cubic design	C value	3.25 l/sbar
Characteristic coil data 24 V DC: 1.5 W 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 Corrosion resistance classification CRC 2 - Moderate corrosion stress Storage temperature Medium temperature -5 50 °C Sound pressure level Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight Electrical connection Plug Cubic design	Switching time reversal	10 ms
Characteristic coil data 24 V DC: 1.5 W 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 Corrosion resistance classification CRC 2 - Moderate corrosion stress Storage temperature Medium temperature -5 50 °C Sound pressure level Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight Electrical connection Plug Cubic design	Duty cycle	100%
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 Corrosion resistance classification CRC 2 - Moderate corrosion stress Storage temperature -20 40 °C Medium temperature -5 50 °C Sound pressure level Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight Electrical connection Plug Cubic design		24 V DC: 1.5 W
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 Corrosion resistance classification CRC 2 - Moderate corrosion stress Storage temperature -20 40 °C Medium temperature -5 50 °C Sound pressure level 75 dB(A) Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight 142 g Electrical connection Plug Cubic design	Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
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 Corrosion resistance classification CRC 2 - Moderate corrosion stress Storage temperature -20 40 °C Medium temperature -5 50 °C Sound pressure level 75 dB(A) Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight 142 g Electrical connection Plug Cubic design	Note on operating and pilot medium	
and EN 60068-2-27 Corrosion resistance classification CRC 2 - Moderate corrosion stress Storage temperature -20 40 °C Medium temperature -5 50 °C Sound pressure level 75 dB(A) Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight 142 g Electrical connection Plug Cubic design	Vibration resistance	1 ' ''
Storage temperature -20 40 °C Medium temperature -5 50 °C Sound pressure level 75 dB(A) Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight 142 g Electrical connection Plug Cubic design	Shock resistance	
Storage temperature -20 40 °C Medium temperature -5 50 °C Sound pressure level 75 dB(A) Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight 142 g Electrical connection Plug Cubic design	Corrosion resistance classification CRC	2 - Moderate corrosion stress
Medium temperature -5 50 °C Sound pressure level 75 dB(A) Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight 142 g Electrical connection Plug Cubic design		
Sound pressure level 75 dB(A) Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight 142 g Electrical connection Plug Cubic design		
Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight 142 g Electrical connection Plug Cubic design		75 dB(A)
Ambient temperature -5 50 °C Product weight 142 g Electrical connection Plug Cubic design	•	()
Product weight 142 g Electrical connection Plug Cubic design		
Electrical connection Plug Cubic design		
Cubic design		
		•
		1
Design C		



Feature	values
Mounting type	with through hole
Pilot exhaust port 82/84	M5
Pneumatic connection, port 1	G1/8
Pneumatic connection, port 2	G1/8
Pneumatic connection, port 3	G1/8
Pneumatic connection, port 4	G1/8
Pneumatic connection, port 5	G1/8
Materials note	Conforms to RoHS
Materials information for seals	HNBR
	NBR
Materials information, housing	Aluminium die cast