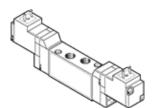
solenoid valve MEH-5/3B-1/8-P-S-B Part number: 173156

FESTO

Midi Pneumatic, with solenoid coil and manual override, without socket.



Data sheet

Valve function 5/3 pressurised Type of actuation electrical Width 17.8 mm Standard nominal flow rate 400 l/min Operating pressure -0.9 10 bar Design structure Piston slide Type of reset mechanical spring Authorisation c UL us - Recognized (OL) Protection class IP65 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 external Flow direction reversible Overlap Positive overlap Pilot pressure 3 8 bar b value 0.37 C value 3.2 l/sbar Switching time off 25 ms Switching time on 12 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 operation) Vibrat	
Width 17.8 mm Standard nominal flow rate 400 l/min Operating pressure -0.9 10 bar Design structure Piston slide Type of reset mechanical spring Authorisation c UL us - Recognized (OL) Protection class 1P65 Nominal size 5 mm Grid dimension 18 mm Exhaust-air function throttleable Sealing principle soft Assembly position Any Amanual override with accessories, detenting Type of piloting Piloted Pilot air supply external Flow direction reversible Overlap Positive overlap Pilot pressure 3 8 bar b value 0.37 C value 3.2 l/sbar Switching time off 25 ms Switching time of 12 ms Duty cycle 100 % Characteristic coil data 24 V DC: 1.5 W Operating medium Custor application test at severity level 1 in accordance Vibration resistance Transport application test at severity level 1 in accordance	
Standard nominal flow rate Operating pressure Design structure Type of reset Authorisation Protection class Nominal size Grid dimension Exhaust-air function Sealing principle Assembly position Manual override Type of piloting Pilot air supply Flow direction Overlap Pilot pressure Days Switching time off Switching time on Duty cycle Characteristic coil data Operating medium Note on perating and pilot medium Vibration resistance Piston side Piston slide mechanical spring Piston slide mechanical spring Piston slide Tiston short Recognized (OL) Protection cut us - Recognized (OL) Protection lass - Recognized (OL) Protection soft Any Any Any Manual override With accessories, detenting Piloted Piloted Piloted Piloted Positive overlap Positi	
Operating pressure -0.9 10 bar Design structure Piston slide Type of reset mechanical spring Authorisation c UL us - Recognized (OL) Protection class IP65 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 external Flow direction reversible Overlap Positive overlap Pilot pressure 3 8 bar b value 0.37 C value 3.2 l/sbar Switching time off 25 ms Switching time off 25 ms Switching time on 12 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 operation)	
Design structure Type of reset Authorisation Cultus - Recognized (OL) Protection class Nominal size Frid dimension Exhaust-air function Sealing principle Assembly position Any Manual override Pilot air supply Flow direction Overlap Plot pressure Davalue	
Type of reset Authorisation c UL us - Recognized (OL) Protection class IP65 Nominal size 5 mm Grid dimension Exhaust-air function Exhaust-air function Sealing principle Assembly position Manual override Type of piloting Pilot air supply Pilot air supply Flow direction Overlap Positive overlap Pilot pressure Value 0.37 C value 38 bar b value 0.37 C value 3.2 l/sbar Switching time off Switching time on Duty cycle Characteristic coil data Operating and pilot medium Vibration resistance Transport application test at severity level 1 in accordance Transport application test at severity level 1 in accordance occurrence C UL us - Recognized (OL) IL us - Recognized (OL) Protection 18 mm Exhaust-air function Any Any Any Any Any Any Any Any Any A	
Authorisation c UL us - Recognized (OL) Protection class IP65 Nominal size 5 mm Grid dimension 18 mm Exhaust-air function 5 soft 5 soft 5 soft 5 soft 5 soft 6 sassembly position 6 soft 7 soft 6 soft 7 s	
Protection class Nominal size 5 mm Grid dimension Exhaust-air function Sealing principle Assembly position Manual override Type of piloting Pilot air supply Pilot air supply Pilot pressure Overlap Pilot pressure D value 3 8 bar 5 value 3 8 bar 5 value 5 8 bar 5 value 6 3.7 C value 7 8 bar 5 value 7 8 bar 8 valtching time off 5 ms Switching time on 12 ms Duty cycle 100 % Characteristic coil data Operating medium Note on operating and pilot medium Vibration resistance Transport application test at severity level 1 in accordance Transport application test at severity level 1 in accordance Transport application test at severity level 1 in accordance Transport application test at severity level 1 in accordance Transport application test at severity level 1 in accordance Transport application test at severity level 1 in accordance Transport application test at severity level 1 in accordance Transport application test at severity level 1 in accordance	
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 external Flow direction reversible Overlap Positive overlap Pilot pressure 3 8 bar b value 0.37 C value 3.2 l/sbar Switching time off 25 ms Switching time off 25 ms Duty cycle 100 % Characteristic coil data 24 V DC: 1.5 W Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:40] Note on operating and pilot medium Transport application test at severity level 1 in accordance	
Grid dimension Exhaust-air function Sealing principle Assembly position Any Manual override Type of piloting Piloted Pilot air supply Flow direction Overlap Positive overlap Pilot pressure 3 8 bar b value 0.37 C value 3.2 l/sbar Switching time off 25 ms Switching time on Duty cycle Characteristic coil data Operating medium Note on operating and pilot medium I hrottleable soft Any Manual override soft Any Mith accessories, detenting Piloted Piloted Piloted Piloted Piloted Piloted Positive overlap Positive overlap 3 8 bar 0 .37 C value 3.2 l/sbar Switching time off 25 ms Duty cycle 100 % Characteristic coil data 24 V DC: 1.5 W Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:2] Note on operating and pilot medium Vibration resistance Transport application test at severity level 1 in accordance	
Exhaust-air function Sealing principle Assembly position Any Manual override Type of piloting Piloted Piloted Pilot air supply Flow direction Overlap Positive overlap Piot pressure 3 8 bar b value 0.37 C value 3.2 l/sbar Switching time off 25 ms Switching time on Duty cycle Characteristic coil data Operating medium Note on operating and pilot medium Vibration resistance trintitleable soft Any with accessories, detenting Piloted external reversible Positive overlap 3 8 bar 0 .37 C value 3.2 l/sbar Switching time off 25 ms Switching time on 12 ms Duty cycle Characteristic coil data 24 V DC: 1.5 W Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:2] Note on operating and pilot medium Vibration resistance Transport application test at severity level 1 in accordance	
Sealing principlesoftAssembly positionAnyManual overridewith accessories, detentingType of pilotingPilotedPilot air supplyexternalFlow directionreversibleOverlapPositive overlapPilot pressure3 8 barb value0.37C value3.2 l/sbarSwitching time off25 msSwitching time on12 msDuty cycle100 %Characteristic coil data24 V DC: 1.5 WOperating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4Note on operating and pilot mediumLubricated operation possible (subsequently required for operation)Vibration resistanceTransport application test at severity level 1 in accordance	
Assembly position Manual override Type of piloting Piloted Piloted Pilot air supply Exernal Flow direction Overlap Positive overlap Pilot pressure 3 8 bar b value 0.37 C value 3.2 l/sbar Switching time off 25 ms Switching time on Duty cycle Characteristic coil data Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Vibration resistance Any with accessories, detenting Piloted external Piloted 9 iloted 9 iloted 9 external 1 external 1 2 so sa bar 2 1 / sbar 2 5 ms Switching time on 1 2 ms Duty cycle 100 % Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot 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 Transport application test at severity level 1 in accordance	
Manual override with accessories, detenting Type of piloting Piloted Pilot air supply external Flow direction reversible Overlap Positive overlap Pilot pressure 3 8 bar b value 0.37 C value 3.2 l/sbar Switching time off 25 ms Switching time on 12 ms Duty cycle 100 % Characteristic coil data 24 V DC: 1.5 W Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4:4] Note on operating and pilot medium Lubricated operation possible (subsequently required for operation) Vibration resistance Transport application test at severity level 1 in accordance	
Type of piloting Piloted Pilot air supply external Flow direction reversible Overlap Positive overlap Pilot pressure 3 8 bar b value 0.37 C value 3.2 l/sbar Switching time off 25 ms Switching time on 12 ms Duty cycle 100 % Characteristic coil data 24 V DC: 1.5 W Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4:4] Note on operating and pilot medium Ubircated operation possible (subsequently required for operation) Vibration resistance Transport application test at severity level 1 in accordance	
Pilot air supply Flow direction Overlap Positive overlap Positive overlap Pilot pressure 3 8 bar b value 0.37 C value 3.2 l/sbar Switching time off 25 ms Switching time on 12 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 operation) Vibration resistance Transport application test at severity level 1 in accordance	
Flow direction reversible Overlap Positive overlap Pilot pressure 3 8 bar b value 0.37 C value 3.2 l/sbar Switching time off 25 ms Switching time on 12 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 operation) Vibration resistance Transport application test at severity level 1 in accordance	
Overlap Pilot pressure 3 8 bar b value 0.37 C value 3.2 l/sbar Switching time off 25 ms Switching time on 12 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 Ubircated operation possible (subsequently required for operation) Vibration resistance Transport application test at severity level 1 in accordance	
Pilot pressure 5 8 bar 6 value 7 value 8 8 bar 9 8 bar 9 8 bar 10 8 bar 9 8 bar 10 8 bar 9 8 bar 10	
b value 0.37 C value 3.2 l/sbar Switching time off 25 ms Switching time on 12 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 operation) Vibration resistance Transport application test at severity level 1 in accordance	
C value Switching time off 25 ms Switching time on 12 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 Lubricated operation possible (subsequently required for operation) Vibration resistance Transport application test at severity level 1 in accordance	
Switching time off Switching time on 12 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 operation) Vibration resistance Transport application test at severity level 1 in accordance	
Switching time on 12 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 operation) Vibration resistance Transport application test at severity level 1 in accordance	
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 operation) Vibration resistance Transport application test at severity level 1 in accordance	
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 operation) Vibration resistance Transport application test at severity level 1 in accordance	
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 operation) Vibration resistance Transport application test at severity level 1 in accordance	
Note on operating and pilot medium Lubricated operation possible (subsequently required for operation) Vibration resistance Transport application test at severity level 1 in accordance	
operation) Vibration resistance Transport application test at severity level 1 in accordance	4]
	further
942017-4 and EN 60068-2-6	with FN
Shock resistance Shock test with severity level 2 in accordance with FN 942 60068-2-27	017-5 and EN
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	<u> </u>
Ambient temperature -5 50 °C	-
Product weight 153 g	
Electrical connection Connection pattern type C to industry standard, 9.4 mm	
Plug	
Cubic design	
Mounting type on manifold rail	



Feature	Value
Pilot exhaust port 82/84	Sub-base
Pilot air port 12	M3
Pneumatic connection, port 1	Sub-base Sub-base
Pneumatic connection, port 2	G1/8
Pneumatic connection, port 3	Sub-base Sub-base
Pneumatic connection, port 4	G1/8
Pneumatic connection, port 5	Sub-base Sub-base
Materials note	Conforms to RoHS
Material seals	HNBR
	NBR
Material housing	Aluminium die cast