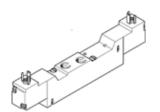
## solenoid valve MEBH-5/3G-1/8-P-B Part number: 173018

**FESTO** 

With solenoid coil and manual override, without plug socket.



## **Data sheet**

Valve function 5/3 closed Type of actuation electrical Width 17.8 mm Standard nominal flow rate 500 l/min Operating pressure 3 8 bar Design structure Pictors slide Type of reset mechanical spring Authorisation c U.U. us- Recognized (OL) Protection class Nominal size 5 mm Grid dimension 18 mm Exhaust-air function throttleable Sealing principle soft Assembly position Any Manual override with accessories, detenting Pilotd Pilot air supply internal Flow direction on non reversible Overlap Positive overlap Pilot pressure 3 8 bar Davily cycle 10.0 3 Switching time on 12 ms Duty cycle 100 yck Characteristic coil data 2 x y DC: 2.5 W Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Unbricated operation stress Stock resistance Stock set with severity level 2 in accordance with FN 942017-5 and EN Good Pilot air support and pilot medium compressible accordance with ISO8573-1:2010 [7:4:4] Pilot presistance 150 compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Unbricated operation possible (subsequently required for further operation) Vibration resistance 150 compressed air in accordance with FN 942017-5 and EN Goods 2-2 Corrosion resistance classification CRC 2 - Moderate corrosion stress Stock per temperature 2.0 40 °C  Medium temperature 550 °C Stound pressure level 75 dB(A) Plug pattern type C to EN 175301-803 Plug Better for the FN 153 g Electrical connection Plug pattern type C to EN 175301-803 Plug pattern type C to EN 175301-803	Feature	Value
Width   17.8 mm   Standard nominal flow rate   500 l/min   500 l	Valve function	5/3 closed
Standard nominal flow rate Operating pressure Design structure Piston slide Type of reset Authorisation CLU us - Recognized (OL) Protection class PP65 Nominal size Smm Grid dimension 18 mm Exhaust-air function Sealing principle Soft Any Manual override Type of piloting Pilot air supply Internal Flow direction Develap Positive overlap Positive overlap Positive overlap Positive overlap Positive overlap Polycycle Switching time off 22 ms Duty cycle Characteristic coil data Deprating medium 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 66068-2-27 Corrosion resistance Storage temperature Poduct weight Flow direction Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Compressed air in accordance with FN 942017-5 and EN 66068-2-27 Corrosion resistance Shock resistance Shock resistance Shock resistance classification CRC 2 - Moderate corrosion stress Storage temperature 5-5-50 °C Sound pressure level 75 dB(A) Ambient temperature 5-5-50 °C Froduct weight Filot pressure level Pilot defium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature 5-5-50 °C Froduct weight Filot pressure level Pilot defium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature 5-5-50 °C Froduct weight Filot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature 5-5-50 °C Froduct weight Filot 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] Filot 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] Filot 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] Filot medium Compressed air in accordance with ISO8573-1:2010 [7:4:	Type of actuation	electrical
Operating pressure     3 8 bar       Design structure     Piston side       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     thorttleable       Sealing principle     soft       Assembly position     Any       Manual override     with accessories, detenting       Type of piloting     Piloted       Pilot air supply     Internal       Flow direction     non reversible       Overlap     Positive overlap       Pilot pressure     3 8 bar       b value     0.3       C value     2.2 (ysbar       Switching time off     25 ms       Switching time off     25 ms       Switching time on     12 ms       Duty cycle     100 %       Characteristic coil data     24 V DC: 2.5 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     Shock tests with seve	Width	17.8 mm
Design structure Type of reset mechanical spring Cul. us. Recognized (01) Protection class IP65 Nominal size 5 mm Grid dimension 18 mm Exhaust-air function Sealing principle Soft Any Manual override Type of piloting Piloted Pilot air supply Internal Flow direction Overlap Positive overlap Positive overlap Positive overlap Positive overlap Positive overlap Switching time off 22 J/sbar Switching time on Duty cycle Characteristic coil data Operating medium Note on operating and pilot medium Compressed air in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance Shock resistance Shock resistance Flow direction Compressed air in accordance with FN 942017-5 and EN 60068-2-7 Corrosion resistance Lossification CRC Storage temperature Poduct weight Flow direction Compressed air in accordance with FN 942017-5 and EN 60068-2-7 Corrosion resistance Lossification CRC Storage temperature Poduct weight Flow direction Compressed air in accordance with FN 942017-5 and EN 60068-2-7 Corrosion resistance Lossification CRC Storage temperature Poduct weight Flow direction Plug pattern type C to EN 175301-803 Flow prediction encounter Plug pattern type C to EN 175301-803	Standard nominal flow rate	500 l/min
Type of reset mechanical spring Authorisation c U us - Recognized (OL) Protection class   IP65   Nominal size   5 mm	Operating pressure	3 8 bar
Authorisation    Cultus - Recognized (OL)   Protection class   IP65     Nominal Size   5 mm	Design structure	Piston slide
Protection class   IP65   Nominal size   5 mm	Type of reset	mechanical spring
Protection class   IP65   Nominal size   5 mm	Authorisation	c UL us - Recognized (OL)
Grid dimension  Exhaust-air function  Exhaust-air function  Soeling principle  Assembly position  Any  Manual override  Type of piloting  Piloted  Piloted  Piloted  Positive overlap  Positive	Protection class	
Exhaust-air function throttleable soft soft Assembly position Any Manual override with accessories, detenting Piloted With accessories, detenting Piloted Pilot air supply Internal Piloted Pilot air supply Internal Pilot direction non reversible Positive overlap Positive overlap Pilot pressure 3 8 bar b value 0.3 Cvalue 2.2 (J/sbar Switching time off 25 ms Switching time off 25 ms Switching time off 25 ms Switching time on 12 ms Duty cycle 100 % Characteristic coil data 24 V DC: 2.5 W Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium poperation 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 sets 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 -20 40 °C Medium temperature -5 50 °C Storage temperature -5 50 °C Product weight Electrical connection Plug pattern type C to EN 175301-803	Nominal size	5 mm
Sealing principle Assembly position Any Manual override With accessories, detenting Type of piloting Piloted Pilot air supply Pilot air supply Pilot pressure Pilot P	Grid dimension	18 mm
Assembly position  Manual override  Mith accessories, detenting  Type of piloting  Pilot air supply  Internal  Flow direction  Overlap  Positive overlap  Pilot pressure  0.3  Evalue  0.3  C value  2.2 I/sbar  Switching time off  25 ms  Switching time on  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 942017-5 and EN 60068-2-7  Corrosion resistance classification CRC  Storage temperature  -2.040 °C  Medium temperature  550 °C  Froduct weight  Electrical connection  Plug pattern type C to EN 175301-803  Filot air supply  Internal  Hith accerdance with ISO8573-1:2010 [7:4:4]  With accessories, detenting  Pilot detenting  Hith accerdance with ISO8573-1:2010 [7:4:4]  Ambient temperature  -550 °C  Froduct weight  Electrical connection  Plug pattern type C to EN 175301-803	Exhaust-air function	throttleable
Assembly position  Manual override  Mith accessories, detenting  Type of piloting  Pilot air supply  Internal  Flow direction  Overlap  Positive overlap  Pilot pressure  0.3  Evalue  0.3  C value  2.2 I/sbar  Switching time off  25 ms  Switching time on  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 942017-5 and EN 60068-2-7  Corrosion resistance classification CRC  Storage temperature  -2.040 °C  Medium temperature  550 °C  Froduct weight  Electrical connection  Plug pattern type C to EN 175301-803  Filot air supply  Internal  Hith accerdance with ISO8573-1:2010 [7:4:4]  With accessories, detenting  Pilot detenting  Hith accerdance with ISO8573-1:2010 [7:4:4]  Ambient temperature  -550 °C  Froduct weight  Electrical connection  Plug pattern type C to EN 175301-803	Sealing principle	soft
Manual override Type of piloting Piloted Pilot air supply Internal Flow direction Overlap Positive overlap Pilot pressure Divalue Switching time off 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 Shock resistance Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-7  Corrosion resistance classification CRC Storage temperature Sound pressure level Pilot pressure Positive overlap Posit		Any
Pilot air supply Internal Flow direction Overlap Positive		with accessories, detenting
Flow direction Overlap Positive overlap	Type of piloting	Piloted
Flow direction Overlap Positive overlap Positive overlap Pilot pressure 3 8 bar b value 0.3 C value 2.2 l/sbar Switching time off 25 ms Switching time on 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 75 dB(A) Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -5 50 °C Product weight 153 g Electrical connection Plug pattern type C to EN 175301-803	Pilot air supply	Internal
Pilot pressure 3 8 bar b value 0.3 C value 2.2 l/sbar Switching time off 25 ms Switching time on 12 ms Duty cycle 100 % Characteristic coil data 24 V DC: 2.5 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 153 g Electrical connection Plug pattern type C to EN 175301-803		non reversible
b value 0.3  C value 2.2 l/sbar  Switching time off 25 ms  Switching time on 12 ms  Duty cycle 100 %  Characteristic coil data 24 V DC: 2.5 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 153 g  Electrical connection Plug pattern type C to EN 175301-803	Overlap	Positive overlap
b value 0.3  C value 2.2 l/sbar  Switching time off 25 ms  Switching time on 12 ms  Duty cycle 100 %  Characteristic coil data 24 V DC: 2.5 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 153 g  Electrical connection Plug pattern type C to EN 175301-803	Pilot pressure	3 8 bar
Switching time off  Switching time on  12 ms  Duty cycle  100 %  Characteristic coil data  24 V DC: 2.5 W  Operating medium  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  -20 40 °C  Medium temperature  -5 50 °C  Sound pressure level  Pilot medium  Ambient temperature  -5 50 °C  Product weight  Electrical connection  Plug pattern type C to EN 175301-803	·	0.3
Switching time off  Switching time on  12 ms  Duty cycle  100 %  Characteristic coil data  24 V DC: 2.5 W  Operating medium  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  -20 40 °C  Medium temperature  -5 50 °C  Sound pressure level  Pilot medium  Ambient temperature  -5 50 °C  Product weight  Electrical connection  Plug pattern type C to EN 175301-803	C value	2.2 l/sbar
Switching time on 12 ms  Duty cycle 100 %  Characteristic coil data 24 V DC: 2.5 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 153 g  Electrical connection Plug pattern type C to EN 175301-803	Switching time off	
Duty cycle 100 % Characteristic coil data 24 V DC: 2.5 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 153 g Electrical connection Plug pattern type C to EN 175301-803		12 ms
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  Product weight  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Ambient temperature  -5 50 °C  Product weight  Plug pattern type C to EN 175301-803		100 %
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  Product weight  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Ambient temperature  -5 50 °C  Product weight  Plug pattern type C to EN 175301-803	Characteristic coil data	24 V DC: 2.5 W
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  153 g  Electrical connection  Plug pattern type C to EN 175301-803		
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  153 g  Electrical connection  Plug pattern type C to EN 175301-803		Lubricated operation possible (subsequently required for further
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  153 g  Electrical connection  Plug pattern type C to EN 175301-803	Vibration 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 153 g  Electrical connection Plug pattern type C to EN 175301-803	Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27
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 153 g  Electrical connection Plug pattern type C to EN 175301-803	Corrosion resistance classification CRC	2 - Moderate corrosion stress
Medium temperature-5 50 °CSound pressure level75 dB(A)Pilot mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Ambient temperature-5 50 °CProduct weight153 gElectrical connectionPlug pattern type C to EN 175301-803		
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 153 g  Electrical connection Plug pattern type C to EN 175301-803		-5 50 °C
Pilot medium  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Ambient temperature  -5 50 °C  Product weight  153 g  Electrical connection  Plug pattern type C to EN 175301-803	, ·	
Ambient temperature -5 50 °C  Product weight 153 g  Electrical connection Plug pattern type C to EN 175301-803	•	· · · ·
Product weight 153 g Electrical connection Plug pattern type C to EN 175301-803		
Electrical connection Plug pattern type C to EN 175301-803	*	
		9
J. 25	Electrical confection	
to EN 175301-803		9
Cubic design		



Feature	Value
Mounting type	on manifold rail
Pilot exhaust port 82/84	Sub-base Sub-base
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
Materials note	Conforms to RoHS
Material seals	HNBR
	NBR
Material housing	Aluminium die cast