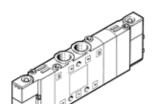
## solenoid valve CPE14-M1BH-5/3E-1/8 Part number: 196935

High component density



**FESTO** 

## **Data sheet**

Type of actuation	Feature	Value
Miles	Valve function	5/3 exhausted
Standard nominal flow rate 700 l/min 9 a 8 bar 9 besign structure Piston slide Protest Martine data spring Authorisation C UL us - Recognized (OL) Maritime classification see certificate Protection class Protection Pr	Type of actuation	electrical
Operating pressure         3 8 bar           Design structure         Piston slide           Type of reset         mechanical spring           Authorisation         cUL us - Recognized (OL)           Maritime classification         see certificate           Protection class         IP65           with plug socket         to IEC 60529           Nominal size         6 mm           Exhaust-air function         throttleable           Sealing principle         soft           Assembly position         Any           Manual override         with accessories, detenting           Pushing         Pushing           Type of piloting         Piloted           Pilot air supply         Internal           Flow direction         non reversible           Valve position identification         Inscription label holder           Overtap         Positive overlap           Switching time off         42 ms           Switching time off         42 ms           Switching time on         20 ms           Duty cycle         100% with holding current reduction           Max. positive test pulse with logic 0         1,200 μs           Max. negative test pulse with logic 1         900 μs	Width	14 mm
Design structure Type of reset mechanical spring Authorisation c UL us - Recognized (OL) Maritime classification protection class lP65 with plug socket to IEC 60529 Nominal size 6 mm  Exhaust-air function sealing principle soft Any Manual override Pushing Type of piloting Pilot air supply Internal Plow direction Positive overlap Switching time of Switching time on Duty cycle Max. positive test pulse with logic 0 Max. positive test pulse with logic 0 Max. pestive test pulse with logic 1 Department and the Maritime of Fusher and the Maritime operation Vibration resistance Shock resistance Corrosion resistance Finded Fin	Standard nominal flow rate	700 l/min
Type of Pioting Piotin	Operating pressure	3 8 bar
Authorisation classification see certificate Protection class   P65	Design structure	Piston slide
Maritime classification Protection class    1P65	Type of reset	mechanical spring
Protection class by the set of th	Authorisation	c UL us - Recognized (OL)
with plug socket to IEC 60529  Nominal size  Exhaust-air function  Exhaust-air function  Exhaust-air function  Sealing principle  Any  Manual override  With accessories, detenting Pushing  Piloted  Piloted  Piloted  Piloted  Piloted  Positive overlap  Switching time off  Azy  Max. positive test pulse with logic 0  Max. positive test pulse with logic 1  Characteristic coil data  Permissible voltage fluctuation  Operating medium  Operating medium  Operating medium  Operating and pilot medium  Ubrizoted operation and Exhaustic Alexander  Shock resistance  Shock resistance  Ambient temperature  Ambient temperature  Abustin test pulse  With Insurance and Exhaustic Alexander  Armonication CRC  Ambient temperature  Ambient temperature  Application  With through hole  With through hole	Maritime classification	see certificate
to IEC 60529  Knownial size  Exhaust-air function  Exhaust-air function  Sealing principle  Sasembly position  Any  Manual override  With accessories, detenting Pushing  Type of piloting  Piloted  Ploted  Ploted  Ploted  Positive overlap  Switching time on  Duty cycle  Max. positive test pulse with logic 0  Max. positive test pulse with logic 1  Characteristic coil data  Permissible voltage fluctuation  Operating medium  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  Corrosion resistance classification CRC  Aniel Type  Mounting type  With through hole  With trough hole	Protection class	IP65
Nominal size Exhaust-air function Exhaust-air function Sealing principle Sesling principle Assembly position Any Manual override With accessories, detenting Pushing Pushing Ploted Pliot air supply Internal Flow direction Non reversible Valve position identification Inscription label holder Overlap Switching time off Switching time off Switching time off Max. positive test pulse with logic 0 Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 Characteristic coil data Permissible voltage fluctuation Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Uibration resistance Shock resistance Shock resistance Shock resistance Corrosion resistance classification CRC Medium temperature S50 °C Ambient temperature S50 °C Ambient temperature S50 °C Ambient temperature S50 °C Ambient temperature S50 °C Froduct weight Lubricated one- With through hole		with plug socket
Exhaust-air function throttleable soft Sealing principle soft Any  Manual override with accessories, detenting Pushing Plioted Pushing Plotting Pliot air supply Internal Internal Internal Positive overlap Positive overlap Positive overlap Positive overlap Positive overlap Positive overlap Positive internal I		to IEC 60529
Sealing principle Assembly position Any Manual override With accessories, detenting Pushing Type of pilotting Piloted Pilot dir supply Internal Flow direction Non reversible Valve position identification Verlap Positive overlap Switching time off Az ms Switching time on Duty cycle 100% with holding current reduction Max. positive test pulse with logic 0 Max. positive test pulse with logic 1 Operating medium Coperating medium Coperating medium Coperating and pilot medium Uibration resistance Shock resistance Shock resistance Shock resistance Shock resistance Shock medium temperature Az ms Sowich medium temperature Az ms Sowitching time on Any With accessories, detenting Pushing	Nominal size	6 mm
Assembly position  Manual override  With accessories, detenting Pushing  Type of piloting  Piloted  Internal  Flow direction  non reversible  Valve position identification  Overlap  Positive overlap  Switching time off  42 ms  Switching time on  20 ms  Duty cycle  100% with holding current reduction  Max. positive test pulse with logic 0  1,200 µs  Max. negative test pulse with logic 1  Apo µs  Characteristic coil data  24 V DC: 1.28 W  Permissible voltage fluctuation  Operating medium  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  Lubricated operation possible (subsequently required for further operation)  Vibration resistance  Shock resistance  Shock test with severity level 2 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  Medium temperature  -5 50 °C  Ambient temperature  -5 50 °C  Ambient temperature  -5 50 °C  Ambient temperature  -5 50 °C  Product weight  120 g  Electrical connection  Wounting type  with through hole	Exhaust-air function	throttleable
Manual override with accessories, detenting Pushing  Type of piloting Piloted  Pilot air supply Internal  Flow direction non reversible  Valve position identification Inscription label holder  Overlap Positive overlap  Switching time off 42 ms  Switching time on 20 ms  Duty cycle 100% with holding current reduction  Max. positive test pulse with logic 0 1,200 µs  Max. negative test pulse with logic 1 900 µs  Characteristic coil data 24 V DC: 1.28 W  Permissible voltage fluctuation -15 % / +10 %  Operating medium 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 Lubricated operation possible (subsequently required for further operation)  Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-27  Corrosion resistance Lassification CRC 2 - Moderate corrosion stress  Medium temperature -5 50 °C  Ambient temperature -5 50 °C  Ambient temperature -5 50 °C  Product weight 120 g  Electrical connection with through hole	Sealing principle	soft
Pushing Type of piloting Pilot air supply Internal Flow direction non reversible Valve position identification Verlap Positive overlap Switching time off Switching time on Duty cycle 100% with holding current reduction Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 Share civil at 24 V DC: 1.28 W Permissible voltage fluctuation Operating medium Compressed air in accordance with IS08573-1:2010 [7:4:4] Note on operating and pilot medium Operating and pilot medium Vibration resistance Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 Corrosion resistance classification CRC Ambient temperature -5 50 °C Ambient temperature -5 50 °C Ambient temperature -5 50 °C Froduct weight Electrical connection Wunting type With through hole	Assembly position	Any
Type of piloting Pilot air supply Internal Flow direction non reversible Valve position identification Inscription label holder Overlap Positive overlap Switching time off 42 ms Switching time on 20 ms Duty cycle 100% with holding current reduction Max. positive test pulse with logic 0 1,200 μs Max. negative test pulse with logic 1 900 μs Characteristic coil data 24 V DC: 1.28 W Permissible voltage fluctuation 15 % / +10 % 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 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance 2 - Moderate corrosion stress Medium temperature - 5 50 °C Ambient temperature - 5 50 °C Ambient temperature - 2-pin Mounting type with through hole	Manual override	with accessories, detenting
Internal		Pushing
Flow direction   non reversible	Type of piloting	Piloted
Valve position identification  Inscription label holder  Overlap  Positive overlap  Switching time off  42 ms  Switching time on  20 ms  Duty cycle  100% with holding current reduction  Max. positive test pulse with logic 0  1,200 µs  Max. negative test pulse with logic 1  900 µs  Characteristic coil data  24 V DC: 1,28 W  Permissible voltage fluctuation  Operating medium  Compressed air in accordance with IS08573-1:2010 [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 2 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  Medium temperature  -5 50 °C  Product weight  120 g  Electrical connection  Mounting type  with through hole	Pilot air supply	Internal
Overlap       Positive overlap         Switching time off       42 ms         Switching time on       20 ms         Duty cycle       100% with holding current reduction         Max. positive test pulse with logic 0       1,200 μs         Max. negative test pulse with logic 1       900 μs         Characteristic coil data       24 V Dc: 1,28 W         Permissible voltage fluctuation       -15 % / +10 %         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 2 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         Medium temperature       -5 50 °C         Ambient temperature       -5 50 °C         Product weight       120 g         Electrical connection       2-pin         Mounting type       with through hole	Flow direction	non reversible
Switching time off Switching time on 20 ms  Duty cycle 100% with holding current reduction  Max. positive test pulse with logic 0 1,200 µs  Max. negative test pulse with logic 1 900 µs  Characteristic coil data 24 V DC: 1.28 W  Permissible voltage fluctuation Operating medium Compressed air in accordance with IS08573-1:2010 [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 2 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  Medium temperature 5 · 50 ° C  Ambient temperature 5 · 50 ° C  Product weight 120 g  Electrical connection Mounting type with through hole	Valve position identification	Inscription label holder
Switching time on 20 ms  Duty cycle 100% with holding current reduction  Max. positive test pulse with logic 0 1,200 µs  Max. negative test pulse with logic 1 900 µs  Characteristic coil data 24 V DC: 1.28 W  Permissible voltage fluctuation -15 % / +10 %  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 2 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  Medium temperature -5 50 °C  Ambient temperature -5 50 °C  Product weight 120 g  Electrical connection 2-pin  Mounting type with through hole	Overlap	Positive overlap
Switching time on 20 ms  Duty cycle 100% with holding current reduction  Max. positive test pulse with logic 0 1,200 µs  Max. negative test pulse with logic 1 900 µs  Characteristic coil data 24 V DC: 1.28 W  Permissible voltage fluctuation -15 % / +10 %  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 2 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  Medium temperature -5 50 °C  Ambient temperature -5 50 °C  Product weight 120 g  Electrical connection 2-pin  Mounting type with through hole		42 ms
Max. positive test pulse with logic 01,200 μsMax. negative test pulse with logic 1900 μsCharacteristic coil data24 V DC: 1.28 WPermissible voltage fluctuation-15 % / +10 %Operating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)Vibration resistanceTransport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2 · Moderate corrosion stressMedium temperature-5 50 °CAmbient temperature-5 50 °CProduct weight120 gElectrical connection2-pinMounting typewith through hole	Switching time on	20 ms
Max. positive test pulse with logic 01,200 μsMax. negative test pulse with logic 1900 μsCharacteristic coil data24 V DC: 1.28 WPermissible voltage fluctuation-15 % / +10 %Operating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)Vibration resistanceTransport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2 · Moderate corrosion stressMedium temperature-5 50 °CAmbient temperature-5 50 °CProduct weight120 gElectrical connection2-pinMounting typewith through hole	Duty cycle	100% with holding current reduction
Characteristic coil data  24 V DC: 1.28 W  Permissible voltage fluctuation  -15 % / +10 %  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 2 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  Medium temperature  -5 50 °C  Ambient temperature  -5 50 °C  Product weight  120 g  Electrical connection  Mounting type  with through hole	Max. positive test pulse with logic 0	
Permissible voltage fluctuation  Operating medium  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Lubricated operation possible (subsequently required for further operation)  Vibration resistance  Transport application test at severity level 2 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  Medium temperature  -5 50 °C  Ambient temperature  -5 50 °C  Product weight  120 g  Electrical connection  Mounting type  with through hole	Max. negative test pulse with logic 1	
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 2 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  Medium temperature -5 50 °C  Ambient temperature -5 50 °C  Product weight 120 g  Electrical connection Mounting type with through hole	Characteristic coil data	24 V DC: 1.28 W
Note on operating and pilot medium  Lubricated operation possible (subsequently required for further operation)  Vibration resistance  Transport application test at severity level 2 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  Medium temperature  -5 50 °C  Ambient temperature  -5 50 °C  Product weight  120 g  Electrical connection  Mounting type  with through hole	Permissible voltage fluctuation	-15 % / +10 %
operation)  Vibration resistance  Transport application test at severity level 2 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  Medium temperature  -5 50 °C  Ambient temperature  -5 50 °C  Product weight  120 g  Electrical connection  Aounting type  with through hole	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  Medium temperature -5 50 °C  Ambient temperature -5 50 °C  Product weight 120 g  Electrical connection 2-pin  Mounting type with through hole	Note on operating and pilot medium	
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  Medium temperature -5 50 °C  Ambient temperature -5 50 °C  Product weight 120 g  Electrical connection 2-pin  Mounting type with through hole	Vibration resistance	
Corrosion resistance classification CRC  2 - Moderate corrosion stress  Medium temperature  -5 50 °C  Ambient temperature  -5 50 °C  Product weight  120 g  Electrical connection  Aunting type  with through hole	Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN
Medium temperature -5 50 °C  Ambient temperature -5 50 °C  Product weight 120 g  Electrical connection 2-pin  Mounting type with through hole	Corrosion resistance classification CRC	
Ambient temperature -5 50 °C  Product weight 120 g  Electrical connection 2-pin  Mounting type with through hole		
Product weight 120 g  Electrical connection 2-pin  Mounting type with through hole		
Electrical connection 2-pin  Mounting type with through hole	•	
Mounting type with through hole	3	3
		·
PHOT DYDAILET DOTT X /	Pilot exhaust port 82	M3

## **FESTO**

Feature	Value
Pilot exhaust port 84	M3
Pilot air port 12	M3
Pilot air port 14	M3
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
Material seals	NBR
Material housing	Aluminium die cast