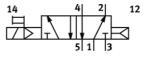
## Solenoid valve MN1H-5/2-D-2-C Part number: 159700

With manual override, without solenoid coil or socket. Solenoid coil and socket should be ordered separately.

## **Data sheet**

60068-2-27PWIS conformityVDMA24364-B1/B2-LMedium temperature-5 50 °CSound pressure level85 dB(A)Ambient temperature-5 50 °C	Feature	Value
Width   54 mm     Standard nominal flow rate   2,300 l/min     Operating pressure MPa   0.2 1 MPa     Working pressure   2 10 bar     Design structure   Piston slide     Type of reset   Air spring     Authorization   c UL us - Recognized (0L)     Maritime classification   see certificate     Protection class   IP65     Nominal size   11.5 mm     Grid dimension   56 mm     Exhaust-air function   throttleable     Sealing principle   soft     Assembly position   Any     Conforms to standard   ISO 5599-1     Marual override   With accessories, detenting     Pushing   Ploted     Ploted   Ploted     Ploted   Ploted     Ploted   Ploted     Ploted   Positive overlap     Switching time off   69 ms     Switching ine on   46 ms     Max. positive test pulse with logic 1   4,600 µs     Operating medium   Lubricated operation possible (subsequently required for further     Vibration resistance   Transport application test with severity lev	Valve function	5/2 monostable
Standard nominal flow rate     2,300 l/min       Operating pressure MPa     0.2 1 MPa       Working pressure     2 10 bar       Design structure     Piston slide       Type of reset     Air spring       Authorization     c UL us - Recognized (OL)       Maritime classification     see certificate       Protection class     IP65       Nominal size     11.5 mm       Grid dimension     56 mm       Exhaust-air function     throttleable       Sealing principle     soft       Assembly position     Any       Conforms to standard     ISO 5599-1       Manual override     with accessories, detenting       Pushing     ISO code       Type of piloting     Piloted       Pilot air supply     Internal       Flow direction     non reversible       Lap     Positive overlap       Switching time off     69 ms       Switching time on     46 ms       Max. positive test pulse with logic 1     4,600 µs       Operating modium     Cubricated operation possible (subsequently required for further operation)       Vibraton resistance     Transport application test with severi	Type of actuation	electrical
Operating pressure MPa       0.2 1 MPa         Working pressure       2 10 bar         Design structure       Piston silde         Type of reset       Air spring         Authorization       C UL us - Recognized (OL)         Maritime classification       see certificate         Protection class       IP65         Nominal size       11.5 mm         Grid dimension       56 mm         Exhaust-air function       throttleable         Sealing principle       soft         Assembly position       Any         Conforms to standard       ISO 5599-1         Manual override       with accessories, detenting         Pulsting       Isoted         ISO code       251         Type of piloting       Piloted         Pilot air supply       Internal         Flow direction       non reversible         Lap       Positive overlap         Switching time on       46 ms         Max. negative test pulse with logic 0       3,700 μs         Max. negative test pulse with logic 1       4,600 μs         Operating medium       Compressed air in accordance with IS08573-1:2010[7:4:4]         Note on	Width	54 mm
Operating pressure MPa     0.21 MPa       Working pressure     210 bar       Design structure     Piston silde       Type of reset     Air spring       Authorization     C UL us - Recognized (OU)       Maritime classification     see certificate       Protection class     IP65       Nominal size     11.5 mm       Grid dimension     56 mm       Exhaust-air function     throttleable       Sealing principle     soft       Assembly position     Any       Conforms to standard     ISO 5599-1       Manual override     with accessories, detenting       Pushing     Isot 5599-1       ISO code     251       Type of piloting     Piloted       Pilot air supply     Internal       Flow direction     non reversible       Lap     Positive overlap       Switching time on     46 ms       Max. positive test pulse with logic 0     3,700 µs       Max. negative test pulse with logic 1     4,600 µs       Operating medium     Compressed air in accordance with IS08573-1:2010[7:4:4]       Note on operating and pilot medium     Lubricated operation possible (subsequently re	Standard nominal flow rate	2,300 l/min
Design structure     Piston slide       Type of reset     Air spring       Authorization     c UL us - Recognized (OL)       Maritime classification     see certificate       Protection class     IP65       Nominal size     11.5 mm       Grid dimension     56 mm       Exhaust air function     throttleable       Sealing principle     soft       Assembly position     Any       Conforms to standard     ISO 5599-1       Marual override     with accessories, detenting       Pushing     251       Type of piloting     Piloted       Pilot air supply     Internal       Flow direction     non reversible       Lap     Solitive overlap       Switching time off     69 ms       Switching time off     69 ms       Max. negative test pulse with logic 0     3,700 µs       Max. negative test pulse with logic 1     4,600 µs       Operating medium     Compressed air in accordance with ISO8573-1:2010 [7:4:4]       Note on operating and pilot medium     Cubricated operation possible (subsequently required for further operation possible (subsequently required for further operation possitace       Shock resistance	Operating pressure MPa	
Type of resetAir springAuthorizationc UL us - Recognized (OL)Maritime classificationsee certificateProtection classIP65Nominal size11.5 mmGrid dimensionS6 mmExhaust-air functionthrottleableSealing principlesoftAssembly positionAnyConforms to standardISO 5599-1Manual overridewith accessories, detentingPushingISO codeType of pilotingPilotedPilotedNon reversibleLapPositive overlapSwitching time off69 msSwitching time off97 msSwitching time off97 msOperating and pilot mediumCompressed air in accordance with ISO8573-1:2010[7:4:4]Nat. negative test pulse with logic 14,600 µsOperating mediumCompressed air in accordance with ISO8573-1:2010[7:4:4]Note on operating and pilot mediumUrbircated operation possible (subsequently required for further operation)Vibration resistanceTransport application test with severity level 1 as per FN 942017-5 an 60068-2-27PWIS conformityVDMA24364-81/B2-1Medium temperature-5 50 °C	Working pressure	2 10 bar
Authorization     c UL us - Recognized (0L)       Maritime classification     see certificate       Protection class     IP65       Nominal size     11.5 mm       Grid dimension     56 mm       Exhaust-air function     throttleable       Sealing principle     soft       Assembly position     Any       Conforms to standard     ISO 5599-1       Manual override     with accessories, detenting       Pushing     ISO code       Type of piloting     Piloted       Pilot air supply     Internal       Flow direction     non reversible       Lap     69 ms       Switching time off     69 ms       Switching time off     69 ms       Switching time off     60 ps       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 accordance with FN 942017-5 an 60068-2-6       Shock test wit	Design structure	Piston slide
Maritime classification     see certificate       Protection class     IP65       Nominal size     11.5 mm       Grid dimension     56 mm       Exhaust-air function     throttleable       Sealing principle     soft       Assembly position     Any       Conforms to standard     ISO 5599-1       Manual override     with accessories, detenting       Pushing     Piloted       Type of piloting     Piloted       Pilot air supply     Internal       Flow direction     non reversible       Lap     Positive overlap       Switching time off     69 ms       Switching time off     69 ms       Switching time off     3,700 µs       Max. positive test pulse with logic 1     4,600 µs       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 with severity level 1 as per FN 942017-5 an 60068-2-27       PWIS conformity     VDMA24364-B1/82-L       Medium temperature     -550 °C	Type of reset	Air spring
Protection classIP65Nominal size11.5 mmGrid dimension56 mmExhaust-air functionthrottleableSealing principlesoftAssembly positionAnyConforms to standardISO 5599-1Manual overridewith accessories, detenting PushingISO code251Type of pilotingPilotedPilot air supplyInternalFlow directionnon reversibleLap69 msSwitching time on46 msMax. positive test pulse with logic 03,700 µsMax. negative test pulse with logic 14,600 µsOperating and pilot mediumCompressed air in accordance with IS08573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)Vibration resistanceShock test with severity level 1 as per FN 942017-5 an 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 an 60068-2-7PWIS conformityVDMA24364-B1/B2-LMedium temperature-5 50 °CAmiter temperature-5 50 °C	Authorization	c UL us - Recognized (OL)
Nominal size11.5 mmGrid dimension56 mmExhaust-air functionthrottleableSealing principlesoftAssembly positionAnyConforms to standardISO 5599-1Manual overridewith accessories, detenting PushingISO code251Type of pilotingPilotedPilot ar supplyInternalFlow directionnon reversibleLapPositive overlapSwitching time off69 msSwitching time off69 msSwitching time off3,700 µsMax. negative test pulse with logic 03,700 µsMax. negative test pulse with logic 14,600 µsOperating 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 with severity level 1 as per FN 942017-5 an 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 an 60068-2-27PWIS conformityVDMA24364-B1/B2-LMedium temperature-5 50 °CAmile temperature-5 50 °C	Maritime classification	see certificate
Grid dimension     56 mm       Exhaust-air function     throttleable       Sealing principle     soft       Assembly position     Any       Conforms to standard     ISO 5599-1       Manual override     with accessories, detenting       Pushing     Pushing       ISO code     251       Type of piloting     Piloted       Pilot air supply     Internal       Flow direction     non reversible       Lap     Positive overlap       Switching time off     69 ms       Switching time on     46 ms       Max. positive test pulse with logic 0     3,700 µs       Max. negative test pulse with logic 1     4,600 µs       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     Shock test with severity level 1 as per FN 942017-4 EN 60068-2-6       Shock resistance     Shock test with severity level 2 in accordance with FN 942017-5 an 60068-2-27       PWIS conformity     VDMA24364-B1/B2-L       Medium temperature     -5 50 °C	Protection class	
Exhaust-air functionthrottleableSealing principlesoftAssembly positionAnyConforms to standardISO 5599-1Manual overridewith accessories, detentingPushingPushingISO code251Type of pilotingPilotedPilot air supplyInternalFlow directionnon reversibleLapPositive overlapSwitching time off69 msSwitching time off3,700 µsMax. negative test pulse with logic 14,600 µsOperating mediumCompressed air in accordance with IS08573-1:2010[7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)Vibration resistanceShock test with severity level 1 as per FN 942017-4 EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 an 60068-2-7PWIS conformityVDMA24364-B1/B2-LMedium temperature-5 50 °CAmbient temperature-5 50 °C	Nominal size	11.5 mm
Sealing principle       soft         Assembly position       Any         Conforms to standard       ISO 5599-1         Manual override       with accessories, detenting         Pushing       ISO code         1SO code       251         Type of piloting       Piloted         Pilot air supply       Internal         Flow direction       non reversible         Lap       Positive overlap         Switching time off       69 ms         Switching time off       69 ms         Max. negative test pulse with logic 0       3,700 μs         Max. negative test pulse with logic 1       4,600 μs         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 1 as per FN 942017-4 EN 60068-2-6         Shock resistance       Shock test with severity level 2 in accordance with FN 942017-5 an 60068-2-6         Shock resistance       Shock test with severity level 2 in accordance with FN 942017-5 an 60068-2-7         PWIS conformity       VDMA24364-B1/B2-L         Medium temperature       -5 50 °C	Grid dimension	56 mm
Sealing principle       soft         Assembly position       Any         Conforms to standard       ISO 5599-1         Manual override       with accessories, detenting         Pushing       ISO code         1SO code       251         Type of piloting       Piloted         Pilot air supply       Internal         Flow direction       non reversible         Lap       Positive overlap         Switching time off       69 ms         Switching time off       69 ms         Max. negative test pulse with logic 0       3,700 μs         Max. negative test pulse with logic 1       4,600 μs         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 1 as per FN 942017-4 EN 60068-2-6         Shock resistance       Shock test with severity level 2 in accordance with FN 942017-5 an 60068-2-6         Shock resistance       Shock test with severity level 2 in accordance with FN 942017-5 an 60068-2-7         PWIS conformity       VDMA24364-B1/B2-L         Medium temperature       -5 50 °C		-
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Manual overridewith accessories, detenting PushingISO code251Type of pilotingPilotedPilot air supplyInternalFlow directionnon reversibleLapPositive overlapSwitching time off69 msSwitching time on46 msMax. positive test pulse with logic 03,700 µsMax. negative test pulse with logic 14,600 µsOperating mediumCompressed air in accordance with IS08573-1:2010[7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)Vibration resistanceTransport application test with severity level 1 as per FN 942017-5 an 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 an 60068-2-7PWIS conformityVDMA24364-B1/B2-LMedium temperature-5 50 °CSound pressure level85 dB(A)Ambient temperature-5 50 °C		
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Type of pilotingPilotedPilot air supplyInternalFlow directionnon reversibleLapPositive overlapSwitching time off69 msSwitching time on46 msMax. positive test pulse with logic 03,700 µsMax. negative test pulse with logic 14,600 µsOperating 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 with severity level 1 as per FN 942017-4 EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 an 60068-2-27PWIS conformityVDMA24364-B1/B2-LMedium temperature-5 50 °CSound pressure level85 dB(A)Ambient temperature-5 50 °C	ISO code	-
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EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 an 60068-2-27PWIS conformityVDMA24364-B1/B2-LMedium temperature-5 50 °CSound pressure level85 dB(A)Ambient temperature-5 50 °C	Note on operating and pilot medium	operation)
60068-2-27PWIS conformityVDMA24364-B1/B2-LMedium temperature-5 50 °CSound pressure level85 dB(A)Ambient temperature-5 50 °C	Vibration resistance	
Medium temperature     -5 50 °C       Sound pressure level     85 dB(A)       Ambient temperature     -5 50 °C	Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27
Medium temperature     -5 50 °C       Sound pressure level     85 dB(A)       Ambient temperature     -5 50 °C	PWIS conformity	
Sound pressure level85 dB(A)Ambient temperature-5 50 °C	,	
Ambient temperature -5 50 °C		
	· ·	
Product weight	Product weight	710 g
Electrical connection Via N1 coil, to be ordered separately		
	Mounting type	
With through-hole and screw		





## FESTO

Feature	Value
Pilot exhaust port 84	M5
Pneumatic connection, port 1	Connection plate size 2 as per ISO 5599-1
Pneumatic connection, port 2	Connection plate size 2 as per ISO 5599-1
Pneumatic connection, port 3	Connection plate size 2 as per ISO 5599-1
Pneumatic connection, port 4	Connection plate size 2 as per ISO 5599-1
Pneumatic connection, port 5	Connection plate size 2 as per ISO 5599-1
Materials note	Conforms to RoHS
Material seals	HNBR
	NBR
Material housing	Aluminum die cast