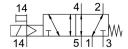
## Air solenoid valve MN1H-5/2-D-1-FR-S-C Part number: 159716

**FESTO** 





## **Data sheet**

truation type   Electrical	Feature	Value
fidth 42 mm tandard nominal flow rate neumatic working port Sub-base, size 1 as per ISO 5599-1 G1/4 perating voltage Via solenoid coil, to be ordered separately perating pressure -0.9 bar 16 bar tructural design Piston gate valve seset method Mechanical spring laritime classification See certificate segree of protection PiP65 ominal width S mm didth dimension 43 mm  Appe code MN1H  khaust air function saling principle Soft lounting position Any onforms to standard ISO 5599-1 lanual override Detenting via accessory Non-detenting Iol control led Iol air supply port External ow direction Pilot-controlled Iol air supply port Seeversible witching time off 39 ms 1 xm 10 bar witching time off 1 xm 2 1 xm 2 1 xm 2 1 xm 3 1 xm 3 1 xm 4 1 xm 5 1 xm 6 1 x	Valve function	5/2, monostable
tandard nominal flow rate neumatic working port perating voltage perating voltage perating pressure perating pressure perating pressure perating pressure perating the state of the state o	Actuation type	Electrical
reumatic working port  Sub-base, size 1 as per ISO 5599-1 G1/4  Via solenoid coil, to be ordered separately perating pressure  -0.9 bar 16 bar  Piston gate valve eset method  Mechanical spring laritime classification See certificate egree of protection IP65  ominal width 8 mm  fidth dimension 43 mm  pre code MN1H  whaust air function with flow control option ealing principle Soft  lounting position Any on-detenting on-detenting oo de pee of control listol air supply port External ow direction Reversible ymbol opping o	Width	42 mm
G1/4 perating voltage perating pressure -0.9 bar 16 bar tructural design pested Mechanical spring laritime classification segree of protection minal width didth dimension Aya mm Aype code Awhaust air function ealing principle soft counting position Any conforms to standard lanual override lanual override Airual override Detenting via accessory Non-detenting Vio cotor  (Iso  Pistor gate waive  Mith flow control option  Ealing principle Soft  Lounting position Any Conforms to standard Lanual override Detenting via accessory Non-detenting Vio code 169 Pilot-controlled Isito air supply port External Ow direction Reversible  With flow control option  Application of the control option  External Ow direction Reversible  With flow control option  Any Overlap  Jo code Jo Gueta option  Jo Code Jo Code Jo Gueta option  Jo Code	Standard nominal flow rate	1200 l/min
perating pressure -0.9 bar 16 bar tructural design Piston gate valve eset method Mechanical spring laritime classification See certificate egree of protection IP65  ominal width fidth dimension Aype code MN1H whatst air function ealing principle Soft lounting position Any onforms to standard lanual override lanual override Vice of control eitot air supply port per of control eitot air supply port External ow direction Reversible ymbol opply apply A	Pneumatic working port	
tructural design Piston gate valve eset method Mechanical spring laritime classification See certificate egree of protection IP65 ominal width 8 mm fidth dimension 43 mm yoe code MN1H xhaust air function With flow control option ealing principle Soft lounting position Any onforms to standard ISO 5599-1 lanual override Detenting via accessory Non-detenting yoe of control Pilot-controlled ilot air supply port External ow direction Reversible yombol 00991190 app Overlap ilot pressure Soft Signal Soft Signal aix, negative test pulse with 0 signal lax, negative test pulse with 0 signal lax, negative test pulse on 1 signal of the designing of the see and the separately See certificate See selenoid coil, to be ordered separately	Operating voltage	Via solenoid coil, to be ordered separately
sest method laritime classification legree of protection liP65 ominal width lidith dimension leading principle lounting position lounting position lounting verride lanual override lanual override lounting supply port lounting supply	Operating pressure	-0.9 bar 16 bar
laritime classification  segree of protection  ominal width  8 mm  lidth dimension  43 mm  ype code  MN1H  khaust air function  with flow control option  sealing principle  Soft  lounting position  onforms to standard  lanual override  Detenting via accessory Non-detenting  occode  169  ype of control  pilot-controlled  liot air supply port  External  ow direction  Reversible  ymbol  oop991190  open  idot pressure  idot pr	Structural design	Piston gate valve
egree of protection   IP65   ominal width   8 mm   //dth dimension   43 mm   //pe code   MN1H   xhaust air function   With flow control option   ealing principle   Soft   //pe code	Reset method	Mechanical spring
ominal width  fidth dimension  fore code  fidth dimension	Maritime classification	See certificate
idith dimension  Aype code  MN1H  khaust air function  With flow control option  Soft  lounting position  Any  onforms to standard  ISO 5599-1  lanual override  Detenting via accessory Non-detenting  Oc code  169  yee of control  Pilot-controlled  silot air supply port  External  ow direction  Reversible  ymbol  app  Overlap  silot pressure  3 bar 10 bar  witching time off  17 ms  lax. positive test pulse with 0 signal  lax. negative test pulse on 1 signal  oil characteristics  See solenoid coil, to be ordered separately	Degree of protection	IP65
MN1H  khaust air function  With flow control option  Soft  lounting position  Any  onforms to standard  ISO 5599-1  lanual override  Detenting via accessory Non-detenting  Ocode  169  yee of control  Reversible  ow direction  Reversible  ymbol  app  Overlap  sliot pressure  3 bar 10 bar  witching time off  n switching time  17 ms  lax. positive test pulse with 0 signal  lax. negative test pulse on 1 signal  oil characteristics  MN1H  Mith flow control option  With flow control option  Soft  Any  Oten dany  How direction open department of the signal  Any  Mith flow control option  With flow control option  Soft  Any  Oten dany  Mith flow control option  Any  Detenting via accessory Non-detenting  Potenting via accessory Non-detenting  Reversible  Overlap  3 bar 10 bar  4 bar 10 bar  5 bar 10 bar  6 bar 10 bar  6 bar 10 bar  6 bar 10 bar  7 bar 10 bar  8 bar 10 bar  9 bar 10 bar  10 bar 10 b	Nominal width	8 mm
Akhaust air function Bealing principle Soft  Jounting position Any Conforms to standard Any Detenting via accessory Non-detenting Non-detenting Any Pilot-controlled Bealing principle Code Any Any Detenting via accessory Non-detenting Any	Width dimension	43 mm
sealing principle  lounting position  Any  onforms to standard  ISO 5599-1  Jeenting via accessory Non-detenting  O code  169  Iplot-controlled  Idiot air supply port  External  Iow direction  Reversible  ymbol  O 0991190  Overlap  Idiot pressure  3 bar 10 bar  witching time off  17 ms  Jax. positive test pulse with 0 signal  Jax. negative test pulse on 1 signal  O colderon  Any  Soft  Any  Detenting via accessory Non-detenting  D External  Detenting via accessory Non-detenting  O vorled  External  O 0991190  Overlap  3 bar 10 bar  39 ms  17 ms  Jax. positive test pulse with 0 signal  Jay. positive test pulse on 1 signal	Type code	MN1H
lounting position onforms to standard ISO 5599-1 Ianual override Iso 5599-1 Detenting via accessory Non-detenting Occode I69 Ipe of control Pilot-controlled Idet air supply port External Isow direction Reversible Ipp Overlap Idet pressure Isom Overlap Idet pressure Isom Isom Isom Isom Isom Isom Isom Isom	Exhaust air function	With flow control option
ISO 5599-1  Ianual override Ianual override Detenting via accessory Non-detenting  Ocode 169 Pilot-controlled Idet air supply port External Ow direction Reversible Pymbol Overlap Idet pressure Overlap Idet pressure Overlap In switching time In sw	Sealing principle	Soft
Detenting via accessory Non-detenting  60 code  169  ype of control Pilot-controlled  ilot air supply port External ow direction Reversible  ymbol Operlap  Overlap  ilot pressure 3 bar 10 bar  witching time off 39 ms n switching time 17 ms  lax. positive test pulse with 0 signal lax. negative test pulse on 1 signal oli characteristics Detenting via accessory Non-detenting  60 code 169  Von-detenting  ilot-controlled External Reversible Overlap 30 yes 3 bar 10 bar 37 ms 39 ms 3700 µs 4600 µs Oli characteristics See solenoid coil, to be ordered separately	Mounting position	Any
Non-detenting  169  Appe of control  Pilot-controlled  External  Apperature of Marction  Reversible  Apperature of Marction  A	Conforms to standard	ISO 5599-1
rype of control  Pilot-controlled  External  Reversible  ymbol  Overlap  ilot pressure  witching time off n switching time  lax. positive test pulse with 0 signal  lax. negative test pulse on 1 signal  olic haracteristics  Pilot-controlled  External  Reversible  Overlap  3 bar 10 bar  39 ms  17 ms  3700 μs  4600 μs  oli characteristics  See solenoid coil, to be ordered separately	Manual override	
illot air supply port  ow direction  Reversible  ymbol  Overlap  ilot pressure  3 bar 10 bar  witching time off  17 ms  lax. positive test pulse with 0 signal  lax. negative test pulse on 1 signal  overlap  3700 µs  lax. negative test pulse on 1 signal  4600 µs  See solenoid coil, to be ordered separately	ISO code	169
Reversible  ymbol  ap  Overlap  ilot pressure  witching time off  n switching time  17 ms  lax. positive test pulse with 0 signal  lax. negative test pulse on 1 signal  oil characteristics  Reversible  Reversible  Reversible  10991190  3 bar 10 bar  39 ms  17 ms  4600 µs  See solenoid coil, to be ordered separately	Type of control	Pilot-controlled
ymbol 00991190  ap Overlap  ilot pressure 3 bar 10 bar  witching time off 39 ms  n switching time 17 ms  lax. positive test pulse with 0 signal 3700 µs  lax. negative test pulse on 1 signal 4600 µs  oil characteristics See solenoid coil, to be ordered separately	Pilot air supply port	External
Overlap  ilot pressure 3 bar 10 bar  witching time off 39 ms  n switching time 17 ms  lax. positive test pulse with 0 signal 3700 µs  lax. negative test pulse on 1 signal 4600 µs  oil characteristics See solenoid coil, to be ordered separately	Flow direction	Reversible
ilot pressure 3 bar 10 bar witching time off 39 ms n switching time 17 ms lax. positive test pulse with 0 signal 3700 μs lax. negative test pulse on 1 signal 4600 μs oil characteristics See solenoid coil, to be ordered separately	Symbol	00991190
witching time off 39 ms  n switching time 17 ms  lax. positive test pulse with 0 signal 3700 µs  lax. negative test pulse on 1 signal 4600 µs  oil characteristics See solenoid coil, to be ordered separately	Lap	Overlap
n switching time 17 ms  lax. positive test pulse with 0 signal 3700 μs  lax. negative test pulse on 1 signal 4600 μs  oil characteristics See solenoid coil, to be ordered separately	Pilot pressure	3 bar 10 bar
lax. positive test pulse with 0 signal 3700 µs lax. negative test pulse on 1 signal 4600 µs oil characteristics See solenoid coil, to be ordered separately	Switching time off	39 ms
lax. negative test pulse on 1 signal  4600 µs  oil characteristics  See solenoid coil, to be ordered separately	On switching time	17 ms
oil characteristics See solenoid coil, to be ordered separately	Max. positive test pulse with 0 signal	3700 μs
	Max. negative test pulse on 1 signal	4600 μs
perating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Coil characteristics	See solenoid coil, to be ordered separately
, and the second of the second	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
formation on operating and pilot media Operation with oil lubrication possible (required for further use)	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)

Feature	Value
Vibration resistance	Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Temperature of medium	-5 ℃ 50 ℃
Noise level	85 dB(A)
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature	-5 ℃ 50 ℃
Product weight	450 g
Electrical connection	Via N1 coil, to be ordered separately
Type of mounting	On sub-base With through-hole
Pilot air port 12	Sub-base, size 1 as per ISO 5599-1
Pilot air port 14	Sub-base, size 1 as per ISO 5599-1
Pneumatic connection 1	Sub-base, size 1 as per ISO 5599-1
Pneumatic connection 2	Sub-base, size 1 as per ISO 5599-1
Pneumatic connection 3	Sub-base, size 1 as per ISO 5599-1
Pneumatic connection 4	Sub-base, size 1 as per ISO 5599-1
Pneumatic connection 5	Sub-base, size 1 as per ISO 5599-1
Note on materials	RoHS-compliant
Seals material	HNBR NBR
Housing material	Die-cast aluminum