

# Solenoid Valve MN1H-5/2-D-3-FR-C - Festo 159711

Item no. FES-159711

Manufacturer Festo

EAN 4052568012113

Festo valve for fast, reliable control of compressed-air direction and flow.

## TECHNICAL DATA

|                         |                                         |
|-------------------------|-----------------------------------------|
| Actuation type          | Electrical                              |
| Betriebsdruck max [bar] | 10.000000                               |
| Design                  | Piston pusher                           |
| Dichtmaterial           | HNBR, NBR                               |
| Durchfluss [l/min]      | 4500                                    |
| Funktion                | 5/2 monostable                          |
| HS-Code                 | 84812090                                |
| Material                | Aluminium                               |
| Medium                  | Compressed air                          |
| Mounting position       | arbitrary                               |
| Nennweite DN [mm]       | 14,5                                    |
| Norm                    | ISO 5599-1                              |
| Operating conditions    | EN 60068-2-27, EN 60068-2-6, ISO 8573-1 |
| Protection rating       | IP65                                    |
| Series                  | MN1H                                    |
| Temperature (max.)      | 50                                      |
| Weight                  | 0.95 kg                                 |



## STANDARDS & COMPLIANCE

ISO 8573-1:2010 ISO 5599-1 EN 60068-2-6 EN 60068-2-27

## DESCRIPTION

Festo valve for fast, reliable control of compressed-air direction and flow. The key technical data of this genuine Festo article are listed below.

|                             |                   |
|-----------------------------|-------------------|
| Valve function              | 5/2 monostable    |
| Actuation type              | Electrical        |
| Build.width [mm]            | 65                |
| Normal nominal flow [l/min] | 4.500             |
| Operating pressure [bar]    | 3 to 10           |
| Construction set up         | Piston pusher     |
| Reset mode                  | Mechanical spring |
| Protection category         | IP65              |

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|                                                |                                                           |
|------------------------------------------------|-----------------------------------------------------------|
| Nominal width [mm]                             | 14,5                                                      |
| Pitch dimension [mm]                           | 71                                                        |
| Exhaust function                               | Can be throttled                                          |
| Sealing principle                              | Soft                                                      |
| installation position                          | arbitrary                                                 |
| Complies to standard                           | ISO 5599-1                                                |
| Hand assist actuation                          | With Accessories ratcheting<br>tentative                  |
| ISO-Code                                       | 352                                                       |
| Control type                                   | pilot operated                                            |
| Control air supply                             | Internal                                                  |
| Flow direction                                 | Not reversible                                            |
| Überdeckung                                    | positive Überdeckung                                      |
| Shifting time off [ms]                         | 74                                                        |
| Shifting time on [ms]                          | 33                                                        |
| Max. positive test impulse at 0 signal [µs]    | 3.700                                                     |
| Max. negative test impulse for 1 signal [µs]   | 4.600                                                     |
| Operating medium                               | Compressed air to ISO 8573-1:2010 [7:4:4]                 |
| Information about operating and control medium | Oiled operation possible (required in further operations) |
| Medium temperature [°C]                        | -5 to 50                                                  |
| Sound level [dB(A)]                            | 85                                                        |
| ambient temperature [°C]                       | -5 to 50                                                  |
| Product weight [g]                             | 1.000                                                     |
| Electrical connection                          | Via N1 coil, order separately                             |
| Fastening type                                 | on connection plate<br>With Throughway bore and screw     |
| Exhaust control connection 84                  | M5                                                        |
| Pneumatic connection 1                         | Connection plate Size 3 to ISO 5599-1                     |
| Pneumatic connection 2                         | Connection plate Size 3 to ISO 5599-1                     |
| Pneumatic connection 3                         | Connection plate Size 3 to ISO 5599-1                     |
| Pneumatic connection 4                         | Connection plate Size 3 to ISO 5599-1                     |
| Pneumatic connection 5                         | Connection plate Size 3 to ISO 5599-1                     |
| Material information                           | RoHs compliant                                            |
| Seals material                                 | HNBR<br>NBR                                               |
| Housing material                               | Aluminium die casting                                     |
| Maritime classification                        | see Certificate                                           |

|                      |                                                                          |
|----------------------|--------------------------------------------------------------------------|
| Oscillation strength | Transport use test with severity level 1 to FN 942017-4 and EN 60068-2-6 |
| Shock resistance     | Shock test with degree of severity 2 to FN 942017-5 and EN 60068-2-27    |
| Permission           | c UL us - Recognized (OL)                                                |