

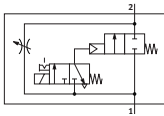
## Soft-start valve MS6N-DE

**FESTO**



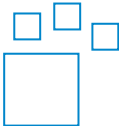
Characteristics

At a glance



- The duration of the pressure build-up is set via the flow control attached to the valve cap. According to the set flow control position, the output pressure p2 increases slowly. As long as the solenoid valve is not actuated, only the flow rate of the flow control is available. The main seat is not opened until the solenoid valve is energized.
- When the solenoid valve is switched off, the main seat is closed and only the flow rate of the flow control is available. For exhausting a system, the solenoid valve should remain switched on, this increases the volumetric flow rate from 2 to 1 and shortens the exhaust time.
- The actuators move slowly and safely to the initial position
- Sudden and unpredictable movements are avoided
- Adjustable switch-through time delay
- Solenoid actuator can be repositioned 180°
- Optional pressure sensor

Ordering data - modular system Link [ms6n\\_de](#)



Configurable product  
This product and all its product options can be ordered online via the configurator.

Pneumatic connection

The installation of connection plates makes it easier to replace the module if necessary (e.g., when using piping).

Pressure gauge alternatives

- Features [AG]/[RG]: integrated pressure gauges
- Features [A4]/[A8]: Adapter for pressure gauge
- Features [AD7]/[AD8]/[AD9]/[AD10]: simple pressure sensors for monitoring the system

Type of mounting

[WP] Mounting bracket standard design



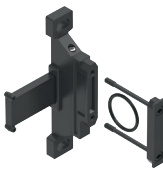
- For connecting the modules for wall mounting
- In conjunction with sub-base for wall mounting of a single device
- in conjunction with mounting plate MS-AEND for wall mounting of a single device
- Same wall distance for mixed combination with series MS4 and MS6

[WB] Mounting centrally at rear (wall mounting top and bottom), sub-bases not required



For wall mounting

[WPM] Mounting bracket for hooking in air preparation units



- For connecting the modules for wall mounting
- In conjunction with sub-base MS4-AG... for wall mounting of an individual device
- Fast hooking and unhooking

## Type code

|        |                                                                |  |
|--------|----------------------------------------------------------------|--|
| 001    | Series                                                         |  |
| MS     | MS series                                                      |  |
| 002    | Size                                                           |  |
| 6      | Width dimension 62 mm                                          |  |
| 003    | Thread type                                                    |  |
| N      | NPT thread                                                     |  |
| 004    | Function                                                       |  |
| DE     | Soft-start valve, electric                                     |  |
| 005    | Pneumatic connection, inch                                     |  |
| 1/4    | Internal thread NPT 1/4                                        |  |
| 3/8    | Internal thread NPT 3/8                                        |  |
| 1/2    | Internal thread NPT 1/2                                        |  |
| AQN    | Sub-base NPT1/4                                                |  |
| AQP    | Sub-base NPT3/8                                                |  |
| AQR    | Sub-base NPT1/2                                                |  |
| AQS    | Sub-base NPT3/4                                                |  |
| 006    | Supply voltage                                                 |  |
| 10V24  | 24 V DC, 10 bar, connection arrangement to EN 175301           |  |
| 10V24P | 24 V DC, 10 bar, M12 (connection pattern to IEC 61076-2-101)   |  |
| V24    | 24 V DC (connection arrangement to EN 175301)                  |  |
| V110   | 110 V AC (connection arrangement in accordance with EN 175301) |  |
| V230   | 230 V AC (connection arrangement in accordance with EN 175301) |  |

|      |                                                                                         |  |
|------|-----------------------------------------------------------------------------------------|--|
| 007  | Pressure gauge alternatives                                                             |  |
|      | Without                                                                                 |  |
| A4   | Adapter plate for EN pressure gauge 1/4, without pressure gauge                         |  |
| AD7  | Pressure sensor with switching display, M8 plug, threshold value comparator, PNP, N/O   |  |
| AD8  | Pressure sensor with switching display, M8 plug, threshold value comparator, PNP, N/C   |  |
| AD9  | Pressure sensor with switching display, M8 plug, window comparator, PNP, N/O            |  |
| AD10 | Pressure sensor with operational status indicator, M8 plug, window comparator, PNP, N/C |  |
| AG   | MS pressure gauge                                                                       |  |
| RG   | Integrated pressure gauge, red/green scale                                              |  |
| 008  | Alternative pressure gauge scale                                                        |  |
|      | MS pressure gauge                                                                       |  |
| BAR  | Bar                                                                                     |  |
| MPA  | MPa                                                                                     |  |
| 009  | Type of mounting                                                                        |  |
|      | Without mounting bracket                                                                |  |
| WB   | Mounting centrally at rear (wall mounting top and bottom), sub-bases not required       |  |
| WP   | Mounting bracket standard design                                                        |  |
| WPM  | Mounting bracket for hooking in air preparation units                                   |  |
| 010  | Flow direction                                                                          |  |
|      | Flow direction from left to right                                                       |  |
| Z    | Flow direction from right to left                                                       |  |

## Datasheet

## General technical data

|                                      |                                                            |         |         |
|--------------------------------------|------------------------------------------------------------|---------|---------|
| Pneumatic connection 1 <sup>1)</sup> | 1/4 NPT                                                    | 3/8 NPT | 1/2 NPT |
| Pneumatic connection 2               | 1/4 NPT                                                    | 3/8 NPT | 1/2 NPT |
| Structural design                    | Piston seat                                                |         |         |
| Type of mounting                     | Alternatively:<br>In-line installation<br>With accessories |         |         |
| Mounting position <sup>2)</sup>      | Any                                                        |         |         |
| Valve function                       | 2/2                                                        |         |         |
| Manual override                      | Detenting, Non-detenting                                   |         |         |
| Actuation type                       | Electrical                                                 |         |         |
| Reset method                         | Mechanical spring                                          |         |         |
| Type of control                      | Piloted                                                    |         |         |
| Pilot air supply port                | Internal                                                   |         |         |
| Flow direction                       | Non-reversible                                             |         |         |

1) Via sub-base [AQ...]: 1/4 NPT, 3/8 NPT, 1/2 NPT or 3/4 NPT

2) The on/off valve must in a vertical mounting position when combined with a pressure sensor as condensate should not collect in the pressure sensor.

## Electrical data

|                       |                                                            |
|-----------------------|------------------------------------------------------------|
| Coil characteristics  | 24 V DC: 1.8 W                                             |
| Electrical connection | Type C, Plug, As per DIN EN 175301-803, Rectangular design |
| Degree of protection  | IP65                                                       |
| Duty cycle            | 100%                                                       |

## Flow characteristics

|                                                                 |              |              |              |
|-----------------------------------------------------------------|--------------|--------------|--------------|
| Pneumatic connection 1                                          | 1/4 NPT      | 3/8 NPT      | 1/2 NPT      |
| Normal nominal flow rate (normalized to DIN 1343) <sup>1)</sup> | 2,700 l/min  | 5,050 l/min  | 6,450 l/min  |
| C value                                                         | 11.22 l/sbar | 21.05 l/sbar | 28.97 l/sbar |
| b-value                                                         | 0.54         | 0.48         | 0.39         |

1) Measured at p1 = 6 bar and p2 = 5 bar, Δp = 1 bar.

## Operating and environmental conditions

|                                                |                                                                    |
|------------------------------------------------|--------------------------------------------------------------------|
| Operating pressure                             | 4 ... 10 bar                                                       |
| Operating medium                               | Compressed air as per ISO 8573-1:2010 [7:4:4], Inert gases         |
| Information on operating and pilot media       | Operation with oil lubrication possible (required for further use) |
| Ambient temperature                            | -10 ... 50°C                                                       |
| Temperature of medium                          | -10 ... 50°C                                                       |
| Corrosion resistance class (CRC) <sup>1)</sup> | 2 - Moderate corrosion stress                                      |
| For use in the food industry <sup>2)</sup>     | See supplementary material information                             |

1) More information at [www.festo.com/x/topic/kbk](http://www.festo.com/x/topic/kbk)

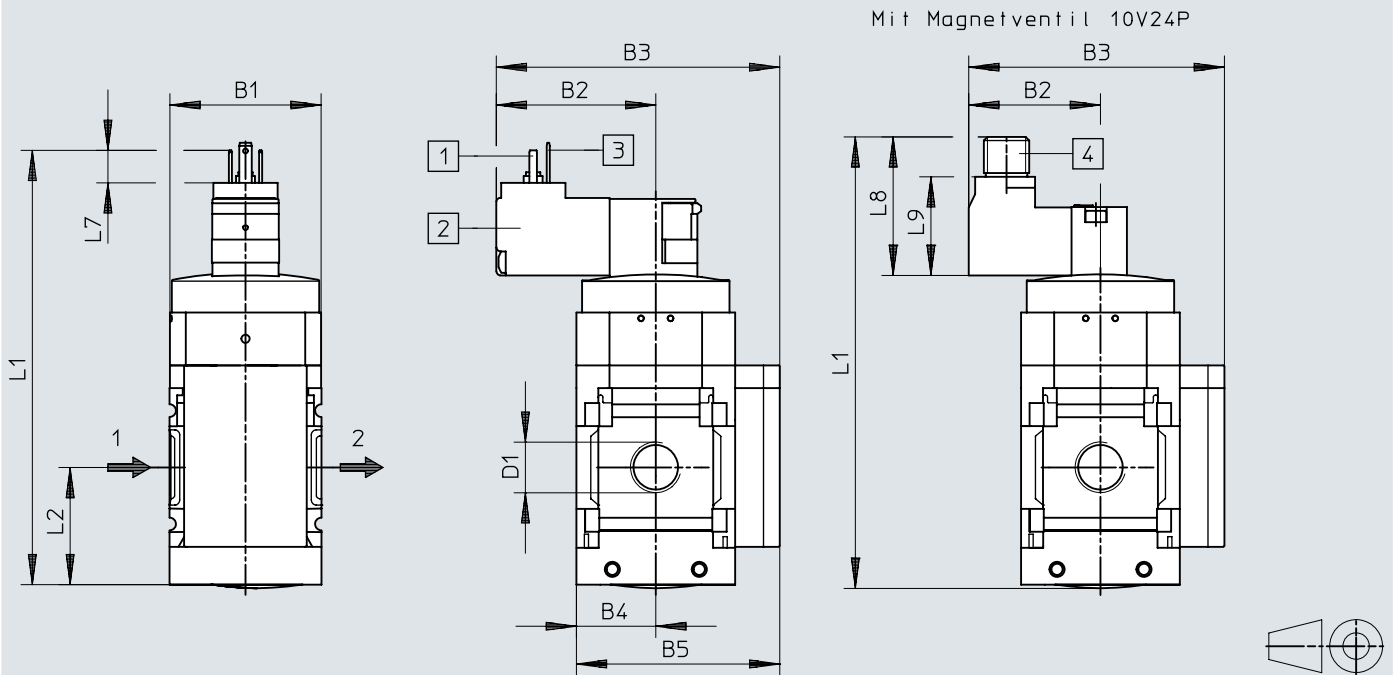
2) For more information, visit [www.festo.com/certificates/M6n-de](http://www.festo.com/certificates/M6n-de)

## Materials

|                        |                   |
|------------------------|-------------------|
| Housing material       | Die-cast aluminum |
| Seals material         | NBR               |
| Note on materials      | RoHS compliant    |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |

## Dimensions

### Dimensions – Basic type with internal thread, with cover plate

[Download CAD data](#) [www.festo.com](http://www.festo.com)


- [1] Plug connection according to EN 175301-803  
 [2] Solenoid actuator can be repositioned 180°, i.e. solenoid faces forward  
 [3] PIN only for solenoid actuators 110 V and 230 V  
 [4] Electrical connection M12x1 according to ISO 20401 suitable to EN 61076-2-101, 4-pole version for connecting cable NEBU M12

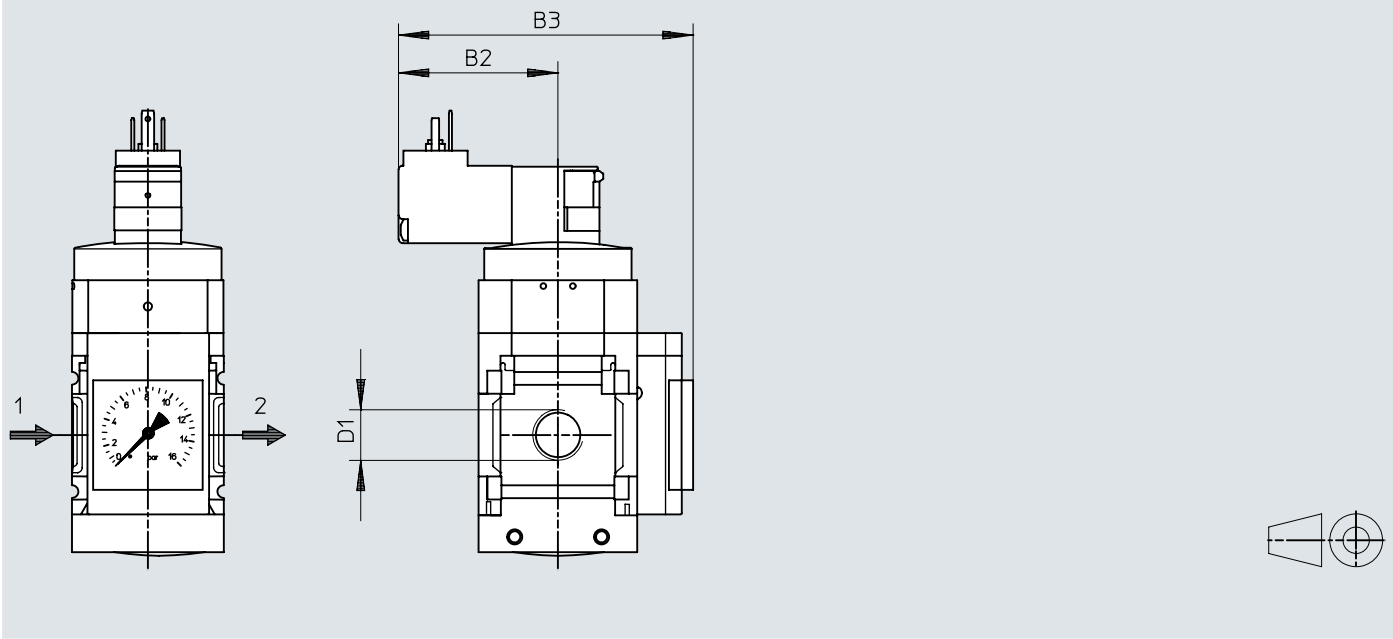
|             | B1     | B2                        |                     | B3                        |                     | B4     | B5     | D1      |
|-------------|--------|---------------------------|---------------------|---------------------------|---------------------|--------|--------|---------|
|             |        | [V24]<br>[V110]<br>[V230] | [10V24]<br>[10V24P] | [V24]<br>[V110]<br>[V230] | [10V24]<br>[10V24P] |        |        |         |
|             | [inch] | [inch]                    |                     | [inch]                    |                     | [inch] | [inch] |         |
| MS6N-DE-1/4 | 2,44   | 2,05                      | 1,73                | 3,82                      | 3,50                | 1,22   | 2,99   | 1/4 NPT |
| MS6N-DE-3/8 |        |                           |                     |                           |                     |        |        | 3/8 NPT |
| MS6N-DE-1/2 |        |                           |                     |                           |                     |        |        | 1/2 NPT |

|             | L1                        |         |          | L2     | L7     | L8     | L9     |
|-------------|---------------------------|---------|----------|--------|--------|--------|--------|
|             | [V24]<br>[V110]<br>[V230] | [10V24] | [10V24P] |        |        |        |        |
|             | [inch]                    |         |          | [inch] | [inch] | [inch] | [inch] |
| MS6N-DE-1/4 | 5,87                      | 5,79    | 5,98     | 1,81   | 0,34   | 1,46   | 1,02   |
| MS6N-DE-3/8 |                           |         |          |        |        |        |        |
| MS6N-DE-1/2 |                           |         |          |        |        |        |        |

Dimensions

Dimensions – Integrated MS pressure gauge with standard scale/with red-green scale

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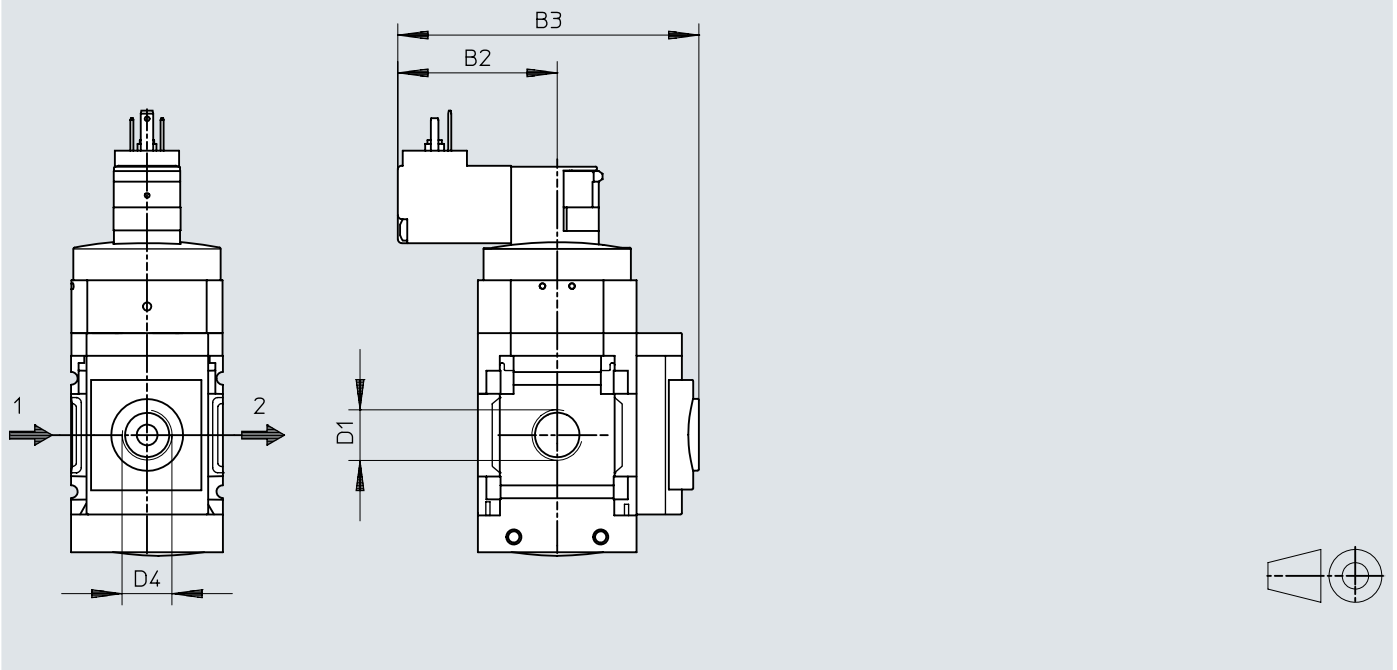


|                    | B2                        |                     | B3                        |                     | D1      |
|--------------------|---------------------------|---------------------|---------------------------|---------------------|---------|
|                    | [V24]<br>[V110]<br>[V230] | [10V24]<br>[10V24P] | [V24]<br>[V110]<br>[V230] | [10V24]<br>[10V24P] |         |
|                    | [inch]                    |                     | [inch]                    |                     |         |
| MS6N-DE-1/4-...-AG | 2,05                      | 1,73                | 3,86                      | 3,54                | 1/4 NPT |
| MS6N-DE-3/8-...-AG |                           |                     |                           |                     | 3/8 NPT |
| MS6N-DE-1/2-...-AG |                           |                     |                           |                     | 1/2 NPT |
| MS6N-DE-1/4-...-RG | 2,05                      | 1,73                | 3,92                      | 3,60                | 1/4 NPT |
| MS6N-DE-3/8-...-RG |                           |                     |                           |                     | 3/8 NPT |
| MS6N-DE-1/2-...-RG |                           |                     |                           |                     | 1/2 NPT |

## Dimensions

Dimensions – Adapter for EN pressure gauge 1/8, without pressure gauge /  
adapter for EN pressure gauge 1/4, without pressure gauge

Download CAD data [www.festo.com](http://www.festo.com)

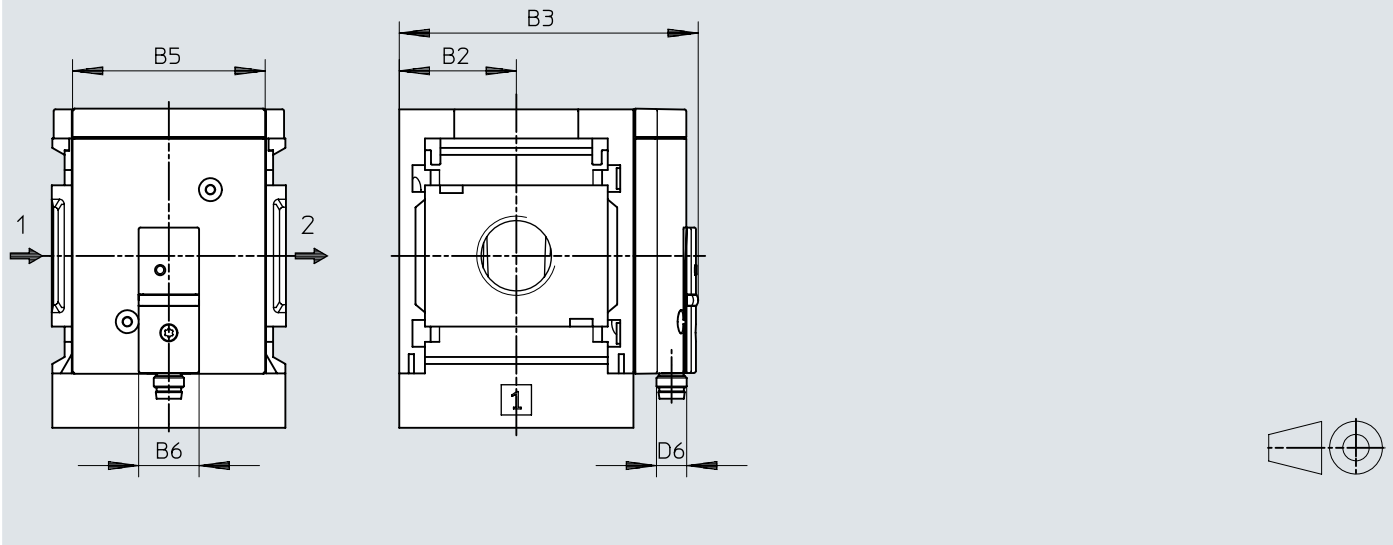


|                    | B2                        |                     | B3                        |                     | D1      | D4      |
|--------------------|---------------------------|---------------------|---------------------------|---------------------|---------|---------|
|                    | [V24]<br>[V110]<br>[V230] | [10V24]<br>[10V24P] | [V24]<br>[V110]<br>[V230] | [10V24]<br>[10V24P] |         |         |
|                    | [inch]                    |                     | [inch]                    |                     |         |         |
| MS4N-DE-1/8-...-A8 | 1,66                      | 1,37                | 3,14                      | 2,85                | 1/8 NPT | 1/8 NPT |
| MS4N-DE-1/4-...-A8 |                           |                     |                           |                     | 1/4 NPT |         |
| MS4N-DE-1/8-...-A4 | 1,66                      | 1,37                | 3,14                      | 2,85                | 1/8 NPT | 1/4 NPT |
| MS4N-DE-1/4-...-A4 |                           |                     |                           |                     | 1/4 NPT |         |

Dimensions

Dimensions – Pressure sensor with switching indication AD7, AD8, AD9, AD10

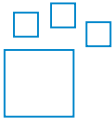
Download CAD data [www.festo.com](http://www.festo.com)



|                              | B2<br>[inch] | B3<br>[inch] | B5<br>[inch] | B6<br>[inch] | D6   |
|------------------------------|--------------|--------------|--------------|--------------|------|
| MS6N-...-AD7, AD8, AD9, AD10 | 1,22         | 3,11         | ~2,01        | 0,63         | M8x1 |

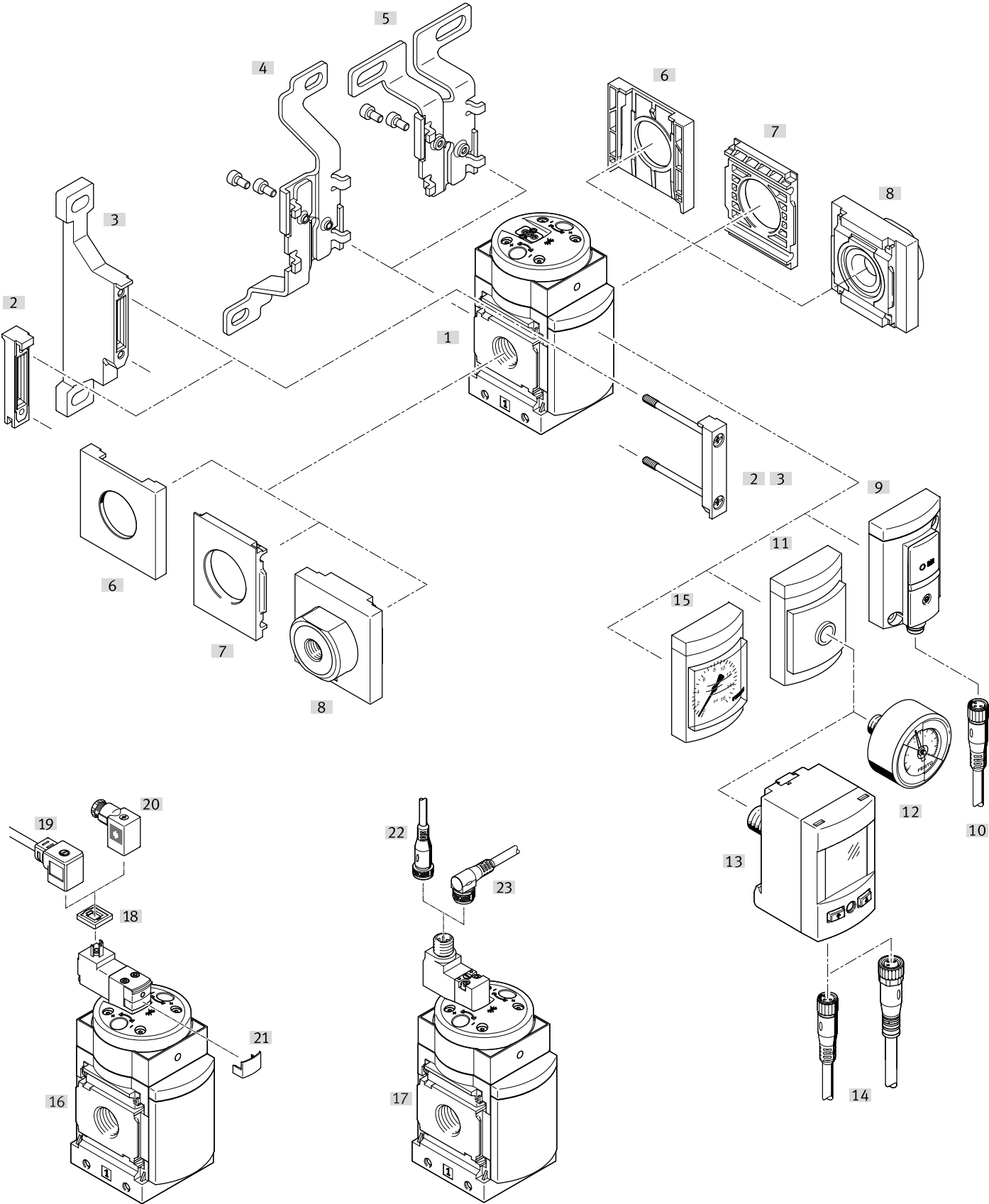
## Ordering data

| Ordering data                                                                     |                        |                           |                    |                |          |                     |
|-----------------------------------------------------------------------------------|------------------------|---------------------------|--------------------|----------------|----------|---------------------|
|                                                                                   | Pneumatic connection 1 | Nominal operating voltage | Flow direction     | Product weight | Part no. | Type                |
|  | 1/4 NPT                | 24 V DC                   | From left to right | 680 g          | 542572   | MS6N-DE-1/4-10V24   |
|                                                                                   | 3/8 NPT                |                           |                    |                | 542574   | MS6N-DE-3/8-10V24   |
|                                                                                   |                        |                           |                    |                | 542577   | MS6N-DE-3/8-10V24-Z |
|                                                                                   | 1/2 NPT                |                           |                    |                | 542573   | MS6N-DE-1/2-10V24   |
|                                                                                   |                        |                           |                    |                | 542576   | MS6N-DE-1/2-10V24-Z |
|                                                                                   |                        |                           |                    |                |          |                     |

| Ordering information – Modular product system                                     |           |          |         |
|-----------------------------------------------------------------------------------|-----------|----------|---------|
|                                                                                   | Type code | Part no. | Type    |
|  | MS6N-DE   | 527687   | MS6N-DE |

Peripherals overview

Peripherals overview



| Accessories              |              | → Page/Internet         |
|--------------------------|--------------|-------------------------|
| Type/order code          | Description  |                         |
| [1] On/off valve MS6N-EE | On/off valve | <a href="#">ms6n-de</a> |

## Peripherals overview

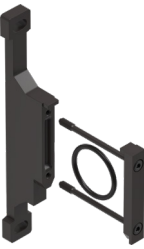
| Accessories                                        |                                                                                                                      | → Page/Internet |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|
| Type/order code                                    | Description                                                                                                          |                 |
| [2] Module connector MS6-MV1                       | For connection of the modules                                                                                        | 12              |
| [3] Mounting bracket MS6-WP                        | Order code [WP]                                                                                                      | 12              |
| [3] Mounting bracket MS6-WPM                       | Order code [WPM] (not shown)                                                                                         | 12              |
| [4] Mounting bracket MS4-WB                        | Order code [WB]                                                                                                      |                 |
| [5] Mounting bracket MS4-WBM                       | Not available for this size                                                                                          | 🔗 –             |
| [6] Cover cap MS6-END                              | Can be used to cover the sides of the housing for the first and last modules if no sub-bases are used.               | 13              |
| [7] Mounting plate MS6-AEND                        | Module connector MS4-MV1 [2] or mounting bracket MS4-WP, WPB, WPE, WPM [3] is required for mounting.                 | 13              |
| [8] Sub-base SET MS6-AQ...                         | Order code [AQ...]                                                                                                   | 13              |
| [9] Pressure sensor with switching indication SDE5 | <ul style="list-style-type: none"> <li>• Display module</li> <li>• Order code [AD7], [AD8], [AD9], [AD10]</li> </ul> | 🔗 ms6n-de       |
| [10] Connecting cable NEBA-M...G...-LE3, straight  | Connecting cable for display module                                                                                  | 14              |
| [11] Adapter for EN pressure gauge 1/8, 1/4        | Order code [A8], [A4]                                                                                                | 🔗 ms6n-de       |
| [12] Pressure gauge MA                             | Built-in pressure indicator                                                                                          | 13              |
| [13] Pressure sensor SPAU-...-T                    | Display module                                                                                                       | 14              |
| [14] Connecting cable NEBA-M...G...-LE4, straight  | Connecting cable for display module                                                                                  | 14              |
| [14] Connecting cable NEBA-M...G...-LE4, angled    | Connecting cable for display module                                                                                  | 14              |
| [15] Pressure gauge MS                             | Order code [AG], [RG]                                                                                                | 🔗 ms6n-de       |
| [16] On/off valve MS6-EE                           | Supply voltage [V24], [V24P], [10V24], [10V24C], [V110], [V230]                                                      | 🔗 ms6n-de       |
| [17] On/off valve MS6-EE                           | Supply voltage [10V24D], [10V24F], [10V24P]                                                                          | 🔗 ms6n-de       |
| [18] Illuminating seal MEB-LD                      | Sensing status indication                                                                                            | 14              |
| [19] Plug socket with cable KMEB                   | Connecting cable for valve coil                                                                                      | 15              |
| [20] Plug socket MSSD-EB                           | Terminal box for valve coil                                                                                          | 15              |
| [21] Locking clip CPV18-HV                         | Prevents the manual override from being activated                                                                    | 15              |
| [22] Connecting cable NEBA-M12G5-LE4, straight     | Connecting cable for valve coil                                                                                      | 14              |
| [23] Connecting cable NEBA-M12W5-LE4, angled       | Connecting cable for valve coil                                                                                      | 14              |

## Accessories

## Module connector MS6-MV1

|                                                                                  | Size | Module connector material       | LABS (PWIS) conformity | Product weight | Part no.       | Type           |
|----------------------------------------------------------------------------------|------|---------------------------------|------------------------|----------------|----------------|----------------|
|  | 6    | POM, high-alloy stainless steel | VDMA24364-B1/B2-L      | 33 g           | <b>8119204</b> | <b>MS6-MV1</b> |

## Mounting bracket MS6-WP...

|                                                                                  | Size | Bracket material  | LABS (PWIS) conformity | Product weight | Part no.      | Type          |
|----------------------------------------------------------------------------------|------|-------------------|------------------------|----------------|---------------|---------------|
|  | 6    | Die-cast aluminum | VDMA24364-B1/B2-L      | 76 g           | <b>532195</b> | <b>MS6-WP</b> |

## Mounting bracket MS6-WPM

|                                                                                    | Size | Module connector material | LABS (PWIS) conformity | Product weight | Part no.      | Type              |
|------------------------------------------------------------------------------------|------|---------------------------|------------------------|----------------|---------------|-------------------|
|  | 6    | Die-cast aluminum         | VDMA24364-B1/B2-L      | 144 g          | <b>526073</b> | <b>MS6-WPM-D</b>  |
|                                                                                    |      |                           |                        | 154 g          | <b>532186</b> | <b>MS6-WPM-2D</b> |

## Mounting bracket MS6-WB

|                                                                                    | Size | Bracket material | LABS (PWIS) conformity | Product weight | Part no.      | Type          |
|------------------------------------------------------------------------------------|------|------------------|------------------------|----------------|---------------|---------------|
|  | 6    | Steel            | VDMA24364-B1/B2-L      | 121 g          | <b>532196</b> | <b>MS6-WB</b> |

## Accessories

| Cover cap MS6-END                                                                 |      |                  |                        |               |                |  |
|-----------------------------------------------------------------------------------|------|------------------|------------------------|---------------|----------------|--|
|                                                                                   | Size | Housing material | LABS (PWIS) conformity | Part no.      | Type           |  |
|  | 6    | PA-reinforced    | VDMA24364-B1/B2-L      | <b>538780</b> | <b>MS6-END</b> |  |

| Mounting plate MS6-AEND                                                           |      |                  |                        |                |               |                  |
|-----------------------------------------------------------------------------------|------|------------------|------------------------|----------------|---------------|------------------|
|                                                                                   | Size | Housing material | LABS (PWIS) conformity | Product weight | Part no.      | Type             |
|  | 6    | PA-reinforced    | VDMA24364-B1/B2-L      | 11.1 g         | <b>535408</b> | <b>MS6-AEND1</b> |

| Sub-base SET MS6-AQ...                                                              |      |                        |                      |                |               |                 |
|-------------------------------------------------------------------------------------|------|------------------------|----------------------|----------------|---------------|-----------------|
|                                                                                     | Size | Pneumatic connection 1 | Material of sub-base | Product weight | Part no.      | Type            |
|  | 6    | 1/4 NPT                | Die-cast aluminum    | 300 g          | <b>526076</b> | <b>MS6N-AQN</b> |
|                                                                                     |      | 3/8 NPT                |                      |                | <b>526077</b> | <b>MS6N-AQP</b> |
|                                                                                     |      | 1/2 NPT                |                      |                | <b>526078</b> | <b>MS6N-AQR</b> |
|                                                                                     |      | 3/4 NPT                |                      |                | <b>526079</b> | <b>MS6N-AQS</b> |

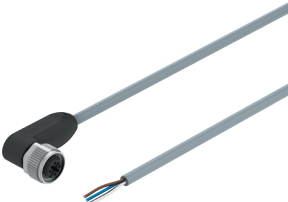
| Pressure gauge MA                                                                   |                      |               |               |                |               |                           |
|-------------------------------------------------------------------------------------|----------------------|---------------|---------------|----------------|---------------|---------------------------|
|                                                                                     | Pneumatic connection | Display range | Display range | Product weight | Part no.      | Type                      |
|  | R1/8                 | 0 ... 232 psi | 0 ... 16 bar  | 60 g           | <b>525726</b> | <b>MA-40-16-R1/8-E-RG</b> |
|                                                                                     | R1/4                 |               |               | 75 g           | <b>525729</b> | <b>MA-50-16-R1/4-E-RG</b> |
|                                                                                     |                      |               |               | 70 g           | <b>187080</b> | <b>MA-40-16-R1/4-EN</b>   |

| Pressure sensor SPAU                                                                |                      |                               |                                                |                |                |                                           |
|-------------------------------------------------------------------------------------|----------------------|-------------------------------|------------------------------------------------|----------------|----------------|-------------------------------------------|
|                                                                                     | Pneumatic connection | Switching output              | Electrical connection 1, connection technology | Product weight | Part no.       | Type                                      |
|  | R1/8                 | 2 x PNP or 2 x NPN switchable | M12x1 A-coded as per EN 61076-2-101            | 70 g           | <b>8001206</b> | <b>SPAU-P10R-T-R18M-L-PNLK-PNVBA-M12D</b> |

## Accessories

| Pressure sensor SPAU                                                             |                      |                               |                                                |                |          |                                    |
|----------------------------------------------------------------------------------|----------------------|-------------------------------|------------------------------------------------|----------------|----------|------------------------------------|
|                                                                                  | Pneumatic connection | Switching output              | Electrical connection 1, connection technology | Product weight | Part no. | Type                               |
|  | R1/8                 | 2 x PNP or 2 x NPN switchable | M8x1 A-coded as per EN 61076-2-104             | 70 g           | 8001203  | SPAU-P10R-T-R18M-L-PNLK-PNVBA-M8D  |
|                                                                                  | R1/4                 |                               | M12x1 A-coded as per EN 61076-2-101            |                | 8001208  | SPAU-P10R-T-R14M-L-PNLK-PNVBA-M12D |
|                                                                                  |                      |                               | M8x1 A-coded as per EN 61076-2-104             |                | 8001209  | SPAU-P10R-T-R14M-L-PNLK-PNVBA-M8D  |

| Connecting cable NEBA, straight                                                   |                                                |                                                |                                               |              |          |                        |
|-----------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|-----------------------------------------------|--------------|----------|------------------------|
|                                                                                   | Electrical connection 1, connection technology | Electrical connection 2, connection technology | Electrical connection 2, number of pins/wires | Cable length | Part no. | Type                   |
|  | M12x1 A-coded as per EN 61076-2-101            | Open end                                       | 3                                             | 2.5 m        | 8078236  | NEBA-M12G5-U-2.5-N-LE3 |
|                                                                                   |                                                |                                                |                                               | 5 m          | 8078237  | NEBA-M12G5-U-5-N-LE3   |
|                                                                                   |                                                |                                                | 4                                             | 2.5 m        | 8078239  | NEBA-M12G5-U-2.5-N-LE4 |
|                                                                                   |                                                |                                                |                                               | 5 m          | 8078240  | NEBA-M12G5-U-5-N-LE4   |
|                                                                                   | M8x1 A-coded as per EN 61076-2-104             |                                                | 3                                             | 2.5 m        | 8078223  | NEBA-M8G3-U-2.5-N-LE3  |
|                                                                                   |                                                |                                                |                                               | 5 m          | 8078224  | NEBA-M8G3-U-5-N-LE3    |
|                                                                                   |                                                |                                                | 4                                             | 2.5 m        | 8078227  | NEBA-M8G4-U-2.5-N-LE4  |
|                                                                                   |                                                |                                                |                                               | 5 m          | 8078228  | NEBA-M8G4-U-5-N-LE4    |

| Connecting cable NEBA, angled                                                      |                                                |                                                |                                               |              |          |                        |
|------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|-----------------------------------------------|--------------|----------|------------------------|
|                                                                                    | Electrical connection 1, connection technology | Electrical connection 2, connection technology | Electrical connection 2, number of pins/wires | Cable length | Part no. | Type                   |
|  | M12x1 A-coded as per EN 61076-2-101            | Open end                                       | 3                                             | 2.5 m        | 8078245  | NEBA-M12W5-U-2.5-N-LE3 |
|                                                                                    |                                                |                                                |                                               | 5 m          | 8078246  | NEBA-M12W5-U-5-N-LE3   |
|                                                                                    |                                                |                                                | 4                                             | 2.5 m        | 8078248  | NEBA-M12W5-U-2.5-N-LE4 |
|                                                                                    |                                                |                                                |                                               | 5 m          | 8078249  | NEBA-M12W5-U-5-N-LE4   |
|                                                                                    | M8x1 A-coded as per EN 61076-2-104             |                                                | 3                                             | 2.5 m        | 8078230  | NEBA-M8W3-U-2.5-N-LE3  |
|                                                                                    |                                                |                                                |                                               | 5 m          | 8078231  | NEBA-M8W3-U-5-N-LE3    |
|                                                                                    |                                                |                                                | 4                                             | 2.5 m        | 8078233  | NEBA-M8W4-U-2.5-N-LE4  |
|                                                                                    |                                                |                                                |                                               | 5 m          | 8078234  | NEBA-M8W4-U-5-N-LE4    |

| Illuminating seal MEB-LD                                                           |                                                           |                            |                              |                |          |                |
|------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------|------------------------------|----------------|----------|----------------|
|                                                                                    | Electrical connection                                     | DC operating voltage range | Nominal operating voltage AC | Product weight | Part no. | Type           |
|  | Type C, As per DIN EN 175301-803, Rectangular design MSEB |                            | 230 V                        | 0.6 g          | 151718   | MEB-LD-230AC   |
|                                                                                    |                                                           | 12 ... 24 V                |                              |                | 151717   | MEB-LD-12-24DC |

## Accessories

| Plug socket with cable KMEB 230V AC                                               |                              |                                      |                                               |              |          |                  |
|-----------------------------------------------------------------------------------|------------------------------|--------------------------------------|-----------------------------------------------|--------------|----------|------------------|
|                                                                                   | Nominal operating voltage AC | Electrical connection 1              | Electrical connection 1, number of pins/wires | Cable length | Part no. | Type             |
|  | 230 V                        | Socket, as per EN 175301-803, form C | 3                                             | 2.5 m        | 151690   | KMEB-1-230AC-2.5 |
|                                                                                   |                              |                                      |                                               | 5 m          | 151691   | KMEB-1-230AC-5   |

| Plug socket with cable KMEB 24 VDC                                                |                              |                                      |                                               |              |          |                   |
|-----------------------------------------------------------------------------------|------------------------------|--------------------------------------|-----------------------------------------------|--------------|----------|-------------------|
|                                                                                   | Nominal operating voltage DC | Electrical connection 1              | Electrical connection 1, number of pins/wires | Cable length | Part no. | Type              |
|  | 24 V                         | Socket, as per EN 175301-803, form C | 2                                             | 2.5 m        | 547268   | KMEB-3-24-2.5-LED |
|                                                                                   |                              |                                      |                                               |              | 547270   | KMEB-3-24-2.5     |
|                                                                                   |                              |                                      |                                               | 5 m          | 547271   | KMEB-3-24-5       |
|                                                                                   |                              |                                      | 3                                             |              | 547269   | KMEB-3-24-5-LED   |
|                                                                                   |                              |                                      |                                               | 2.5 m        | 151688   | KMEB-1-24-2.5-LED |
|                                                                                   |                              |                                      |                                               | 5 m          | 151689   | KMEB-1-24-5-LED   |

| Plug socket MSSD-EB                                                                 |                                                                                                                                       |                        |                |          |             |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------|----------|-------------|
|                                                                                     | Electrical connection                                                                                                                 | Degree of protection   | Product weight | Part no. | Type        |
|  |                                                                                                                                       | IP67                   | 11 g           | 539712   | MSSD-EB-M12 |
|                                                                                     | 3-pin, Socket, Angled socket, Type C, As per DIN EN 175301-803, As per DIN EN 61984, Rectangular design MSEB, Rectangular design MSN2 | IP65, As per IEC 60529 |                | 151687   | MSSD-EB     |

| Locking clip CPV18-HV                                                               |           |                        |                |          |          |
|-------------------------------------------------------------------------------------|-----------|------------------------|----------------|----------|----------|
|                                                                                     | Type code | LABS (PWIS) conformity | Product weight | Part no. | Type     |
|  | CPV18     | VDMA24364-B1/B2-L      | 0.53 g         | 530056   | CPV18-HV |