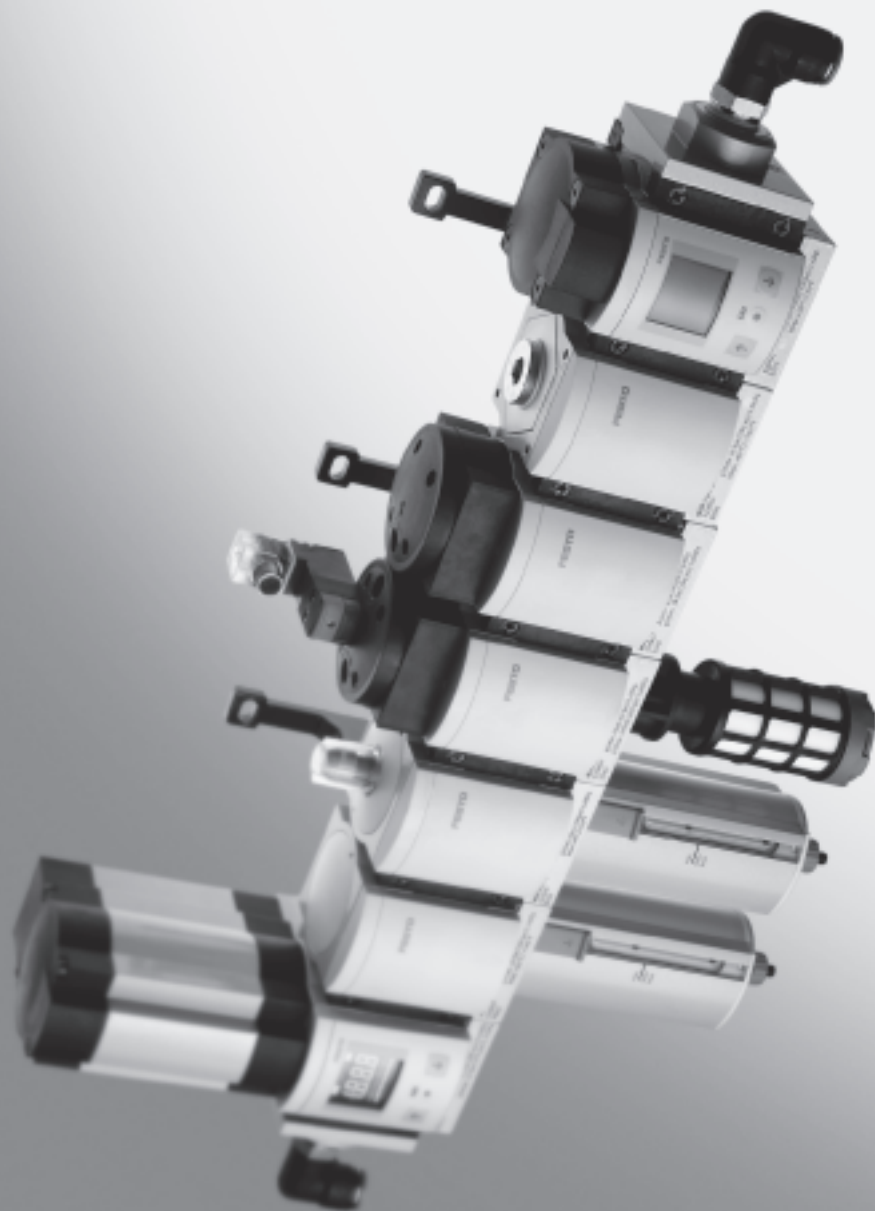


Wide range of configuration options

→ [www.festo.com/en/engineering](http://www.festo.com/en/engineering)



- Three sizes:  
MS4 – grid  
dimension 40 mm  
MS6 – grid  
dimension 62 mm  
MS12 – grid  
dimension 124 mm
- Modular
- Easy to assemble
- Broad range of functions
- Compact with high flow rates
- Modern design
- Wide choice of variants
- Integrated safety functions

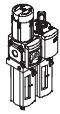
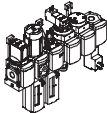
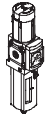
Specified types in accordance with  
ATEX directive for potentially  
explosive atmospheres

→ [www.festo.com/en/ex](http://www.festo.com/en/ex)

# MS series service units

Product range overview

FESTO

| Type                                                                                                                                                                 | Size | Pneumatic connection in housing | Connecting plate       | Pressure regulation range [bar] |      |     |     |     |     | Grade of filtration [µm] |   |   |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------|------------------------|---------------------------------|------|-----|-----|-----|-----|--------------------------|---|---|----|
|                                                                                                                                                                      |      |                                 |                        | 0.05                            | 0.05 | 0.1 | 0.3 | 0.1 | 0.5 | 0.01                     | 1 | 5 | 40 |
|                                                                                                                                                                      |      |                                 |                        | ...                             | ...  | ... | ... | ... | ... |                          |   |   |    |
| Code                                                                                                                                                                 |      |                                 | AG...                  | 0.7                             | 2.5  | 4   | 7   | 12  | 16  | A                        | B | C | E  |
| Service units                                                                                                                                                        |      |                                 |                        |                                 |      |     |     |     |     |                          |   |   |    |
|                                                                                     | 4    | G1/8, G1/4                      | G1/8, G1/4, G3/8       | –                               | –    | –   | ■   | ■   | –   | –                        | – | ■ | ■  |
|                                                                                                                                                                      | 6    | G1/4, G3/8, G1/2                | G1/4, G3/8, G1/2, G3/4 | –                               | –    | –   | ■   | ■   | –   | –                        | – | ■ | ■  |
|                                                                                                                                                                      | 12   | –                               |                        |                                 |      |     |     |     |     |                          |   |   |    |
| Service unit combinations (further variants can be ordered using the configurator → <a href="http://www.festo.com/en/engineering">www.festo.com/en/engineering</a> ) |      |                                 |                        |                                 |      |     |     |     |     |                          |   |   |    |
|                                                                                    | 4    | G1/4                            | G1/8, G1/4, G3/8       | –                               | –    | –   | ■   | ■   | –   | –                        | – | ■ | ■  |
|                                                                                                                                                                      | 6    | G1/2                            | G1/4, G3/8, G1/2, G3/4 | –                               | –    | –   | ■   | ■   | –   | –                        | – | ■ | ■  |
|                                                                                                                                                                      | 12   | –                               |                        |                                 |      |     |     |     |     |                          |   |   |    |
| Individual devices                                                                                                                                                   |      |                                 |                        |                                 |      |     |     |     |     |                          |   |   |    |
|                                                                                   | 4    | G1/8, G1/4                      | G1/8, G1/4, G3/8       | –                               | –    | ■   | ■   | ■   | –   | –                        | – | ■ | ■  |
|                                                                                                                                                                      | 6    | G1/4, G3/8, G1/2                | G1/4, G3/8, G1/2, G3/4 | –                               | –    | ■   | ■   | ■   | ■   | –                        | – | ■ | ■  |
|                                                                                                                                                                      | 12   | –                               | G1, G1 1/4, G1 1/2, G2 | –                               | –    | –   | ■   | ■   | ■   | –                        | – | ■ | ■  |
|                                                                                   | 4    | G1/8, G1/4                      | G1/8, G1/4, G3/8       | –                               | –    | –   | –   | –   | –   | –                        | – | ■ | ■  |
|                                                                                                                                                                      | 6    | G1/4, G3/8, G1/2                | G1/4, G3/8, G1/2, G3/4 | –                               | –    | –   | –   | –   | –   | –                        | – | ■ | ■  |
|                                                                                                                                                                      | 12   | –                               | G1, G1 1/4, G1 1/2, G2 | –                               | –    | –   | –   | –   | –   | –                        | – | ■ | ■  |
|                                                                                   | 4    | G1/8, G1/4                      | G1/8, G1/4, G3/8       | –                               | –    | –   | –   | –   | –   | ■                        | ■ | – | –  |
|                                                                                                                                                                      | 6    | G1/4, G3/8, G1/2                | G1/4, G3/8, G1/2, G3/4 | –                               | –    | –   | –   | –   | –   | ■                        | ■ | – | –  |
|                                                                                                                                                                      | 12   | –                               | G1, G1 1/4, G1 1/2, G2 | –                               | –    | –   | –   | –   | –   | ■                        | ■ | – | –  |
|                                                                                   | 4    | G1/8, G1/4                      | G1/8, G1/4, G3/8       | –                               | –    | –   | –   | –   | –   | –                        | – | – | –  |
|                                                                                                                                                                      | 6    | G1/4, G3/8, G1/2                | G1/4, G3/8, G1/2, G3/4 | –                               | –    | –   | –   | –   | –   | –                        | – | – | –  |
|                                                                                                                                                                      | 12   | –                               | G1, G1 1/4, G1 1/2, G2 | –                               | –    | –   | –   | –   | –   | –                        | – | – | –  |
|                                                                                   | 4    | G1/8, G1/4                      | G1/8, G1/4, G3/8       | –                               | –    | ■   | ■   | ■   | –   | –                        | – | – | –  |
|                                                                                                                                                                      | 6    | G1/4, G3/8, G1/2                | G1/4, G3/8, G1/2, G3/4 | –                               | –    | ■   | ■   | ■   | ■   | –                        | – | – | –  |
|                                                                                                                                                                      | 12   | –                               | G1, G1 1/4, G1 1/2, G2 | –                               | –    | –   | ■   | ■   | ■   | –                        | – | – | –  |
|                                                                                   | 4    | G1/4                            | G1/8, G1/4, G3/8       | –                               | –    | ■   | ■   | ■   | –   | –                        | – | – | –  |
|                                                                                                                                                                      | 6    | G1/2                            | G1/4, G3/8, G1/2, G3/4 | –                               | –    | ■   | ■   | ■   | ■   | –                        | – | – | –  |
|                                                                                                                                                                      | 12   | –                               |                        |                                 |      |     |     |     |     |                          |   |   |    |
|                                                                                   | 4    | –                               |                        |                                 |      |     |     |     |     |                          |   |   |    |
|                                                                                                                                                                      | 6    | G1/4, G3/8, G1/2                | G1/4, G3/8, G1/2, G3/4 | ■                               | ■    | ■   | –   | ■   | –   | –                        | – | – | –  |
|                                                                                                                                                                      | 12   | –                               |                        |                                 |      |     |     |     |     |                          |   |   |    |
|                                                                                   | 4    | –                               |                        |                                 |      |     |     |     |     |                          |   |   |    |
|                                                                                                                                                                      | 6    | G1/2                            | G1/4, G3/8, G1/2, G3/4 | ■                               | ■    | ■   | –   | ■   | –   | –                        | – | – | –  |
|                                                                                                                                                                      | 12   | –                               |                        |                                 |      |     |     |     |     |                          |   |   |    |

# MS series service units

Product range overview

FESTO

| Type                                            | Size | Bowl guard         |            | Condensate drains |                |                 |                                       | Pressure indicator                   |                              |                                     |                                     |                              | Actuator lock         |                   | Options  |                                   | → Page     |
|-------------------------------------------------|------|--------------------|------------|-------------------|----------------|-----------------|---------------------------------------|--------------------------------------|------------------------------|-------------------------------------|-------------------------------------|------------------------------|-----------------------|-------------------|----------|-----------------------------------|------------|
|                                                 |      | Plastic bowl guard | Metal bowl | Manual rotary     | Semi-automatic | Fully automatic | External, fully-automatic, electrical | Cover plate (without pressure gauge) | Integrated MS pressure gauge | Adapter for EN pressure gauge G 1/8 | Adapter for EN pressure gauge G 1/4 | Pressure sensor with display | Rotary knob, lockable | Rotary knob, long | Silencer | Flow direction from right to left |            |
| Code                                            |      | R                  | U          | M                 | H              | V               | E...                                  | VS                                   | AG                           | A8                                  | A4                                  | AD...                        | AS                    | LD                | S        | Z                                 |            |
| <b>Service units</b>                            |      |                    |            |                   |                |                 |                                       |                                      |                              |                                     |                                     |                              |                       |                   |          |                                   |            |
| <b>MSB-FRC</b>                                  | 4    | ■                  | –          | ■                 | –              | ■               | –                                     | –                                    | ■                            | –                                   | –                                   | –                            | ■                     | –                 | –        | ■                                 | 2-2        |
|                                                 | 6    | ■                  | ■          | ■                 | –              | ■               | –                                     | –                                    | ■                            | –                                   | –                                   | –                            | ■                     | –                 | –        | ■                                 |            |
|                                                 | 12   | –                  |            |                   |                |                 |                                       |                                      |                              |                                     |                                     |                              |                       |                   |          |                                   |            |
| <b>Service unit combinations</b>                |      |                    |            |                   |                |                 |                                       |                                      |                              |                                     |                                     |                              |                       |                   |          |                                   |            |
| <b>MSB</b>                                      | 4    | ■                  | ■          | ■                 | –              | ■               | –                                     | –                                    | ■                            | –                                   | –                                   | –                            | ■                     | –                 | –        | ■                                 | 2-2        |
|                                                 | 6    | ■                  | ■          | ■                 | –              | ■               | –                                     | –                                    | ■                            | –                                   | –                                   | –                            | ■                     | –                 | –        | ■                                 |            |
|                                                 | 12   | –                  |            |                   |                |                 |                                       |                                      |                              |                                     |                                     |                              |                       |                   |          |                                   |            |
| <b>Individual devices</b>                       |      |                    |            |                   |                |                 |                                       |                                      |                              |                                     |                                     |                              |                       |                   |          |                                   |            |
| Filter regulators<br><b>MS-LFR</b>              | 4    | ■                  | ■          | ■                 | ■              | ■               | –                                     | ■                                    | ■                            | ■                                   | ■                                   | ■                            | ■                     | ■                 | –        | ■                                 | 3-2        |
|                                                 | 6    | ■                  | ■          | ■                 | ■              | ■               | ■                                     | ■                                    | ■                            | –                                   | ■                                   | ■                            | ■                     | ■                 | –        | ■                                 |            |
|                                                 | 12   | –                  | ■          | ■                 | –              | ■               | ■                                     | ■                                    | ■                            | –                                   | ■                                   | –                            | ■                     | ■                 | –        | ■                                 | 3-18       |
| Filters<br><b>MS-LF</b>                         | 4    | ■                  | ■          | ■                 | ■              | ■               | –                                     | –                                    | –                            | –                                   | –                                   | –                            | –                     | –                 | –        | ■                                 | 4-2, 4-4   |
|                                                 | 6    | ■                  | ■          | ■                 | ■              | ■               | ■                                     | –                                    | –                            | –                                   | –                                   | –                            | –                     | –                 | –        | ■                                 |            |
|                                                 | 12   | –                  | ■          | ■                 | –              | ■               | ■                                     | –                                    | –                            | –                                   | –                                   | –                            | –                     | –                 | –        | ■                                 | 4-32, 4-34 |
| Fine and micro filters<br><b>MS-LFM</b>         | 4    | ■                  | ■          | ■                 | ■              | ■               | –                                     | –                                    | –                            | –                                   | –                                   | –                            | –                     | –                 | –        | ■                                 | 4-2, 4-12  |
|                                                 | 6    | ■                  | ■          | ■                 | ■              | ■               | ■                                     | –                                    | –                            | –                                   | –                                   | –                            | –                     | –                 | –        | ■                                 |            |
|                                                 | 12   | –                  | ■          | ■                 | –              | ■               | ■                                     | –                                    | –                            | –                                   | –                                   | –                            | –                     | –                 | –        | ■                                 | 4-32, 4-39 |
| Activated carbon filters<br><b>MS-LFX</b>       | 4    | ■                  | ■          | –                 | –              | –               | –                                     | –                                    | –                            | –                                   | –                                   | –                            | –                     | –                 | –        | ■                                 | 4-2, 4-24  |
|                                                 | 6    | ■                  | ■          | –                 | –              | –               | –                                     | –                                    | –                            | –                                   | –                                   | –                            | –                     | –                 | –        | ■                                 |            |
|                                                 | 12   | –                  | ■          | –                 | –              | –               | –                                     | –                                    | –                            | –                                   | –                                   | –                            | –                     | –                 | –        | ■                                 | 4-32, 4-46 |
| Pressure regulators<br><b>MS-LR</b>             | 4    | –                  | –          | –                 | –              | –               | –                                     | ■                                    | ■                            | ■                                   | ■                                   | ■                            | ■                     | ■                 | –        | ■                                 | 5-2, 5-7   |
|                                                 | 6    | –                  | –          | –                 | –              | –               | –                                     | ■                                    | ■                            | –                                   | ■                                   | ■                            | ■                     | ■                 | –        | ■                                 |            |
|                                                 | 12   | –                  | –          | –                 | –              | –               | –                                     | ■                                    | ■                            | –                                   | ■                                   | –                            | ■                     | ■                 | –        | ■                                 | 5-58       |
| Pressure regulators<br><b>MS-LRB</b>            | 4    | –                  | –          | –                 | –              | –               | –                                     | ■                                    | ■                            | ■                                   | ■                                   | ■                            | ■                     | ■                 | –        | ■                                 | 5-2, 5-16  |
|                                                 | 6    | –                  | –          | –                 | –              | –               | –                                     | ■                                    | ■                            | –                                   | ■                                   | ■                            | ■                     | ■                 | –        | ■                                 |            |
|                                                 | 12   | –                  |            |                   |                |                 |                                       |                                      |                              |                                     |                                     |                              |                       |                   |          |                                   |            |
| Precision pressure regulators<br><b>MS-LRP</b>  | 4    | –                  |            |                   |                |                 |                                       |                                      |                              |                                     |                                     |                              |                       |                   |          |                                   | 5-24, 5-29 |
|                                                 | 6    | –                  | –          | –                 | –              | –               | –                                     | ■                                    | –                            | ■                                   | ■                                   | ■                            | ■                     | ■                 | –        | ■                                 |            |
|                                                 | 12   | –                  |            |                   |                |                 |                                       |                                      |                              |                                     |                                     |                              |                       |                   |          |                                   |            |
| Precision pressure regulators<br><b>MS-LRPB</b> | 4    | –                  |            |                   |                |                 |                                       |                                      |                              |                                     |                                     |                              |                       |                   |          |                                   | 5-24, 5-38 |
|                                                 | 6    | –                  | –          | –                 | –              | –               | –                                     | ■                                    | –                            | ■                                   | ■                                   | ■                            | ■                     | ■                 | –        | ■                                 |            |
|                                                 | 12   | –                  |            |                   |                |                 |                                       |                                      |                              |                                     |                                     |                              |                       |                   |          |                                   |            |

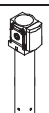
MS series service units

1

# MS series service units

Product range overview

**FESTO**

| Type                                            | Size                                                                                | Pneumatic connection in housing | Connecting plate | Pressure regulation range [bar] |                 |                  |                  | Supply voltage                            |                                            |                                            |                                            |
|-------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------|------------------|---------------------------------|-----------------|------------------|------------------|-------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
|                                                 |                                                                                     |                                 |                  | 0.3<br>...<br>4                 | 0.3<br>...<br>7 | 0.5<br>...<br>12 | 0.5<br>...<br>16 | 24 V DC (connection pattern to EN 175301) | 24 V DC (connection pattern M12 to DESINA) | 110 V AC (connection pattern to EN 175301) | 230 V AC (connection pattern to EN 175301) |
| Code                                            |                                                                                     |                                 | AG...            | D5                              | D6              | D7               | D8               | V24                                       | V24P                                       | V110                                       | V230                                       |
| <b>Individual devices</b>                       |                                                                                     |                                 |                  |                                 |                 |                  |                  |                                           |                                            |                                            |                                            |
| Electrical pressure regulators<br><b>MS-LRE</b> |    | 4                               | –                |                                 |                 |                  |                  | –                                         | –                                          | –                                          | –                                          |
|                                                 |                                                                                     | 6                               | G1/4, G3/8, G1/2 | G1/4, G3/8, G1/2, G3/4          | ■               | ■                | ■                | ■                                         | –                                          | –                                          | –                                          |
|                                                 |                                                                                     | 12                              | –                |                                 |                 |                  |                  |                                           |                                            |                                            |                                            |
| Lubricators<br><b>MS-LOE</b>                    |    | 4                               | G1/8, G1/4       | G1/8, G1/4, G3/8                | –               | –                | –                | –                                         | –                                          | –                                          | –                                          |
|                                                 |                                                                                     | 6                               | G1/4, G3/8, G1/2 | G1/4, G3/8, G1/2, G3/4          | –               | –                | –                | –                                         | –                                          | –                                          | –                                          |
|                                                 |                                                                                     | 12                              | –                | G1, G1 1/4, G1 1/2, G2          | –               | –                | –                | –                                         | –                                          | –                                          | –                                          |
| On-off valves<br><b>MS-EM(1)</b>                |  | 4                               | G1/8, G1/4       | G1/8, G1/4, G3/8                | –               | –                | –                | –                                         | –                                          | –                                          | –                                          |
|                                                 |                                                                                     | 6                               | G1/4, G3/8, G1/2 | G1/4, G3/8, G1/2, G3/4          | –               | –                | –                | –                                         | –                                          | –                                          | –                                          |
|                                                 |                                                                                     | 12                              | –                | G1, G1 1/4, G1 1/2, G2          | –               | –                | –                | –                                         | –                                          | –                                          | –                                          |
| On-off valves<br><b>MS-EE</b>                   |  | 4                               | G1/8, G1/4       | G1/8, G1/4, G3/8                | –               | –                | –                | –                                         | ■                                          | –                                          | ■                                          |
|                                                 |                                                                                     | 6                               | G1/4, G3/8, G1/2 | G1/4, G3/8, G1/2, G3/4          | –               | –                | –                | –                                         | ■                                          | –                                          | ■                                          |
|                                                 |                                                                                     | 12                              | –                | G1, G1 1/4, G1 1/2, G2          | –               | –                | –                | –                                         | ■                                          | ■                                          | ■                                          |
| Soft-start valves<br><b>MS-DL</b>               |  | 4                               | G1/8, G1/4       | G1/8, G1/4, G3/8                | –               | –                | –                | –                                         | –                                          | –                                          | –                                          |
|                                                 |                                                                                     | 6                               | G1/4, G3/8, G1/2 | G1/4, G3/8, G1/2, G3/4          | –               | –                | –                | –                                         | –                                          | –                                          | –                                          |
|                                                 |                                                                                     | 12                              | –                | G1, G1 1/4, G1 1/2, G2          | –               | –                | –                | –                                         | –                                          | –                                          | –                                          |
| Soft-start valves<br><b>MS-DE</b>               |  | 4                               | G1/8, G1/4       | G1/8, G1/4, G3/8                | –               | –                | –                | –                                         | ■                                          | –                                          | ■                                          |
|                                                 |                                                                                     | 6                               | G1/4, G3/8, G1/2 | G1/4, G3/8, G1/2, G3/4          | –               | –                | –                | –                                         | ■                                          | –                                          | ■                                          |
|                                                 |                                                                                     | 12                              | –                | G1, G1 1/4, G1 1/2, G2          | –               | –                | –                | –                                         | ■                                          | ■                                          | ■                                          |
| Membrane air dryers<br><b>MS-LDM1</b>           |  | 4                               | G1/8, G1/4       | G1/8, G1/4, G3/8                | –               | –                | –                | –                                         | –                                          | –                                          | –                                          |
|                                                 |                                                                                     | 6                               | G1/4, G3/8, G1/2 | G1/4, G3/8, G1/2, G3/4          | –               | –                | –                | –                                         | –                                          | –                                          | –                                          |
|                                                 |                                                                                     | 12                              | –                |                                 |                 |                  |                  |                                           |                                            |                                            |                                            |
| Branching modules<br><b>MS-FRM</b>              |  | 4                               | G1/8, G1/4       | G1/8, G1/4, G3/8                | –               | –                | –                | –                                         | –                                          | –                                          | –                                          |
|                                                 |                                                                                     | 6                               | G1/4, G3/8, G1/2 | G1/4, G3/8, G1/2, G3/4          | –               | –                | –                | –                                         | –                                          | –                                          | –                                          |
|                                                 |                                                                                     | 12                              | –                | G1, G1 1/4, G1 1/2, G2          | –               | –                | –                | –                                         | –                                          | –                                          | –                                          |
| Flow sensors<br><b>MS-SFE</b>                   |  | 4                               | –                |                                 |                 |                  |                  |                                           |                                            |                                            |                                            |
|                                                 |                                                                                     | 6                               | G1/2             | G1/2                            | –               | –                | –                | –                                         | –                                          | –                                          | –                                          |
|                                                 |                                                                                     | 12                              | –                |                                 |                 |                  |                  |                                           |                                            |                                            |                                            |

# MS series service units

Product range overview

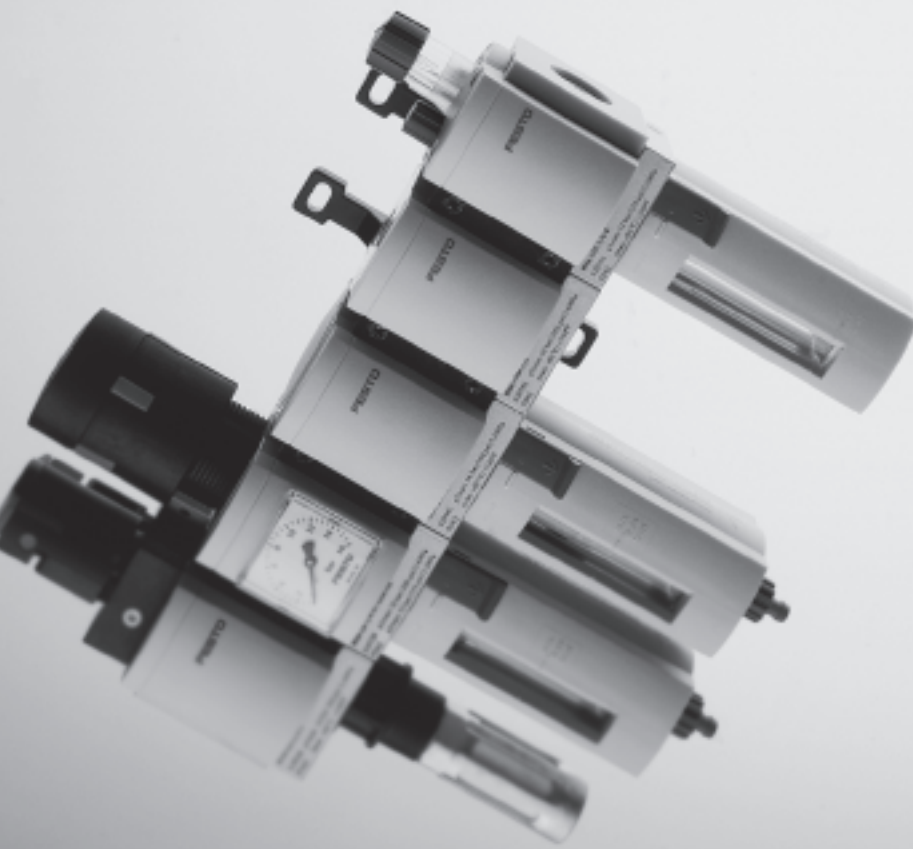
FESTO

| Type                                     | Size | Bowl guard         |            | Pressure indicator                   |                              |                                     |                                     |                              | Switch output |        | Options  |                                   | → Page     |
|------------------------------------------|------|--------------------|------------|--------------------------------------|------------------------------|-------------------------------------|-------------------------------------|------------------------------|---------------|--------|----------|-----------------------------------|------------|
|                                          |      | Plastic bowl guard | Metal bowl | Cover plate (without pressure gauge) | Integrated MS pressure gauge | Adapter for EN pressure gauge G 1/8 | Adapter for EN pressure gauge G 1/4 | Pressure sensor with display | 2x PNP        | 2x NPN | Silencer | Flow direction from right to left |            |
|                                          |      |                    |            |                                      |                              |                                     |                                     |                              |               |        |          |                                   |            |
| Individual devices                       |      |                    |            |                                      |                              |                                     |                                     |                              |               |        |          |                                   |            |
| Electrical pressure regulators<br>MS-LRE | 4    | -                  |            |                                      |                              |                                     |                                     |                              |               |        |          |                                   | 5-46       |
|                                          | 6    | -                  | -          | ■                                    | ■                            | -                                   | ■                                   | -                            | -             | -      | -        | ■                                 |            |
|                                          | 12   | -                  |            |                                      |                              |                                     |                                     |                              |               |        |          |                                   |            |
|                                          |      |                    |            |                                      |                              |                                     |                                     |                              |               |        |          |                                   |            |
| Lubricators<br>MS-LOE                    | 4    | ■                  | ■          | -                                    | -                            | -                                   | -                                   | -                            | -             | -      | -        | ■                                 | 6-2        |
|                                          | 6    | ■                  | ■          | -                                    | -                            | -                                   | -                                   | -                            | -             | -      | -        | ■                                 |            |
|                                          | 12   | -                  | ■          | -                                    | -                            | -                                   | -                                   | -                            | -             | -      | -        | -                                 | ■          |
|                                          |      |                    |            |                                      |                              |                                     |                                     |                              |               |        |          |                                   |            |
| On-off valves<br>MS-EM(1)                | 4    | -                  | -          | ■                                    | ■                            | ■                                   | ■                                   | ■                            | -             | -      | ■        | ■                                 | 7-2, 7-5   |
|                                          | 6    | -                  | -          | ■                                    | ■                            | -                                   | ■                                   | ■                            | -             | -      | ■        | ■                                 |            |
|                                          | 12   | -                  | -          | ■                                    | ■                            | -                                   | ■                                   | -                            | -             | -      | ■        | ■                                 | 7-32, 7-35 |
| On-off valves<br>MS-EE                   | 4    | -                  | -          | ■                                    | ■                            | ■                                   | ■                                   | ■                            | -             | -      | ■        | ■                                 | 7-2, 7-10  |
|                                          | 6    | -                  | -          | ■                                    | ■                            | -                                   | ■                                   | ■                            | -             | -      | ■        | ■                                 |            |
|                                          | 12   | -                  | -          | ■                                    | ■                            | -                                   | ■                                   | -                            | -             | -      | ■        | ■                                 | 7-32, 7-39 |
| Soft-start valves<br>MS-DL               | 4    | -                  | -          | ■                                    | ■                            | ■                                   | ■                                   | ■                            | -             | -      | -        | ■                                 | 7-2, 7-18  |
|                                          | 6    | -                  | -          | ■                                    | ■                            | -                                   | ■                                   | ■                            | -             | -      | -        | ■                                 |            |
|                                          | 12   | -                  | -          | ■                                    | ■                            | -                                   | ■                                   | -                            | -             | -      | -        | ■                                 | 7-32, 7-43 |
| Soft-start valves<br>MS-DE               | 4    | -                  | -          | ■                                    | ■                            | ■                                   | ■                                   | ■                            | -             | -      | -        | ■                                 | 7-2, 7-23  |
|                                          | 6    | -                  | -          | ■                                    | ■                            | -                                   | ■                                   | ■                            | -             | -      | -        | ■                                 |            |
|                                          | 12   | -                  | -          | ■                                    | ■                            | -                                   | ■                                   | -                            | -             | -      | -        | ■                                 | 7-32, 7-47 |
|                                          |      |                    |            |                                      |                              |                                     |                                     |                              |               |        |          |                                   |            |
| Membrane air dryers<br>MS-LDM1           | 4    | -                  | ■          | -                                    | -                            | -                                   | -                                   | -                            | -             | -      | -        | ■                                 | 8-2        |
|                                          | 6    | -                  | ■          | -                                    | -                            | -                                   | -                                   | -                            | -             | -      | -        | ■                                 |            |
|                                          | 12   | -                  |            |                                      |                              |                                     |                                     |                              |               |        |          |                                   |            |
|                                          |      |                    |            |                                      |                              |                                     |                                     |                              |               |        |          |                                   |            |
| Branching modules<br>MS-FRM              | 4    | -                  | -          | ■                                    | ■                            | ■                                   | ■                                   | ■                            | -             | -      | -        | ■                                 | 9-2        |
|                                          | 6    | -                  | -          | ■                                    | ■                            | -                                   | ■                                   | ■                            | -             | -      | -        | ■                                 |            |
|                                          | 12   | -                  | -          | ■                                    | -                            | -                                   | -                                   | -                            | -             | -      | -        | -                                 | 9-14       |
|                                          |      |                    |            |                                      |                              |                                     |                                     |                              |               |        |          |                                   |            |
| Flow sensors<br>MS-SFE                   | 4    | -                  |            |                                      |                              |                                     |                                     |                              |               |        |          |                                   | 10-2       |
|                                          | 6    | -                  | -          | -                                    | -                            | -                                   | -                                   | -                            | ■             | ■      | -        | ■ <sup>1)</sup>                   |            |
|                                          | 12   | -                  |            |                                      |                              |                                     |                                     |                              |               |        |          |                                   |            |

1) To be ordered via configurator software only → [www.festo.com/en/engineering](http://www.festo.com/en/engineering)



Wide range of configuration options  
→ [www.festo.com/en/engineering](http://www.festo.com/en/engineering)



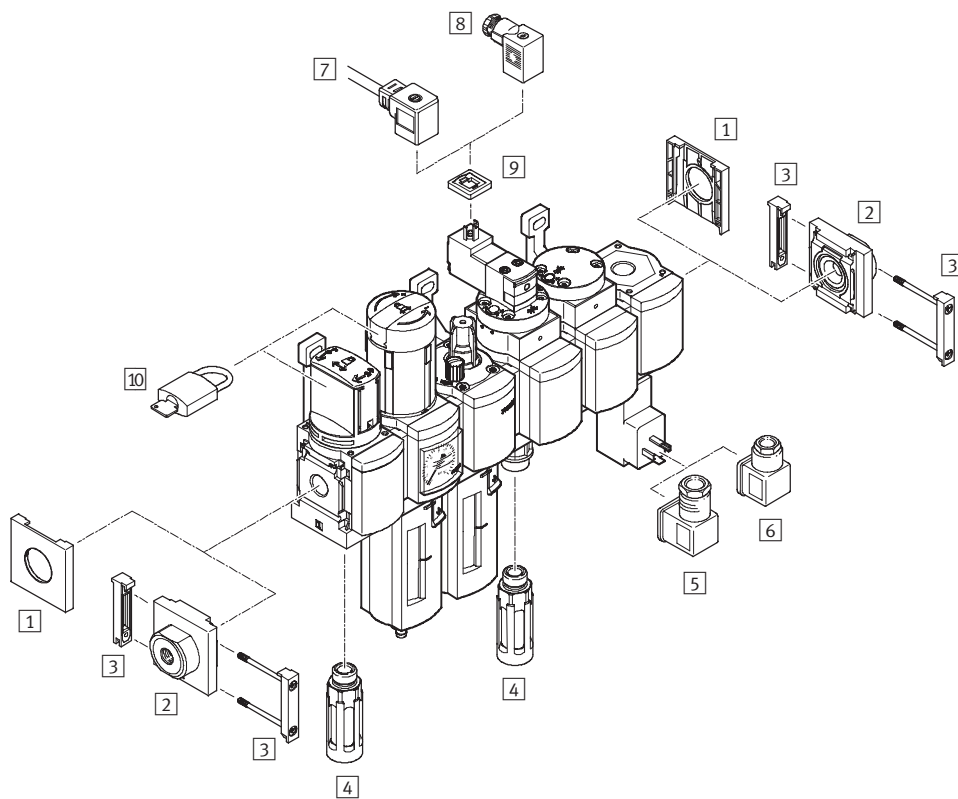
- MS4 – grid  
dimension 40 mm  
MS6 – grid  
dimension 62 mm
- Modular
- Easy to assemble
- Broad range of functions
- Compact with high flow rates
- Modern design
- Wide choice of variants
- Integrated safety functions

Specified types in accordance with  
ATEX directive for potentially  
explosive atmospheres  
→ [www.festo.com/en/ex](http://www.festo.com/en/ex)

## Service unit combinations MSB4/MSB6, MS series

Peripherals overview

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**Note**  
The choice of accessories depends on the selected service unit combination.

Range of accessories  
→ Peripherals pages of the individual devices

| Mounting attachments and accessories |                                                                 | → Page     |
|--------------------------------------|-----------------------------------------------------------------|------------|
| 1                                    | Cover cap<br>MS4/6-END                                          | 11-3       |
| 2                                    | Connecting plate<br>MS4/6-AG...                                 | 11-2       |
| 3                                    | Module connector<br>MS4/6-MV                                    | 11-7       |
| 4                                    | Silencer<br>U                                                   | 11-10      |
| 5                                    | Angled socket<br>PEV-1/4-WD-LED                                 | 11-9       |
| 6                                    | Plug socket<br>MSSD-C-4P                                        | 11-9       |
| 7                                    | Plug socket with cable<br>KMEB                                  | 11-9       |
| 8                                    | Plug socket<br>MSSD-EB                                          | 11-9       |
| 9                                    | Illuminating seal<br>MEB-LD                                     | 11-9       |
| 10                                   | Padlock<br>LRVS-D                                               | 11-10      |
| –                                    | Mounting bracket (for service unit MSB-FRC)<br>MS4/6-WP/WPB/WPM | 11-5, 11-6 |

## Service unit combinations MSB4/MSB6, MS series

Type codes

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|     |  |   |   |     |   |    |    |    |   |    |
|-----|--|---|---|-----|---|----|----|----|---|----|
| MSB |  | 6 | - | 1/2 | : | H7 | N3 | M2 | - | WP |
|-----|--|---|---|-----|---|----|----|----|---|----|

| Series |                          |
|--------|--------------------------|
| MSB    | Service unit combination |

| Size |                      |
|------|----------------------|
| 4    | Grid dimension 40 mm |
| 6    | Grid dimension 62 mm |

| Pneumatic connection |             |
|----------------------|-------------|
| 1/4                  | Thread G1/4 |
| 1/2                  | Thread G1/2 |

| Service unit combination |                     |
|--------------------------|---------------------|
| On-off valve             | → 7-4               |
| C3                       | MS...-EM1           |
| Filters                  | → 4-3               |
| H1                       | MS...-LF-ERV        |
| H2                       | MS...-LF-ERM        |
| H3                       | MS...-LF-CRM        |
| H4                       | MS...-LF-CRV        |
| H7                       | MS...-LF-EUV        |
| H8                       | MS...-LF-EUM        |
| Filter regulator         | → 3-3               |
| J1                       | MS...-LFR-D7-ERM-AS |
| J2                       | MS...-LFR-D7-ERV-AS |
| J3                       | MS...-LFR-D7-CRM-AS |
| J4                       | MS...-LFR-D7-CRV-AS |
| Pressure regulator       | → 5-6               |
| N2                       | MS...-LR-D6-AS      |
| N3                       | MS...-LR-D7-AS      |
| Soft-start valve         | → 7-4               |
| A1                       | MS...-DL            |
| Lubricator               | → 6-3               |
| M1                       | MS...-LOE-R         |
| M2                       | MS...-LOE-U         |
| On-off valve             | → 7-4               |
| D1                       | MS...-EE-V24        |
| D7                       | MS...-EE-10V24      |
| Branching module         | → 9-4               |
| F3                       | MS...-FRM-Y         |

| Type of mounting |                  |
|------------------|------------------|
| WP               | Mounting bracket |

MS series service units  
Service units

2

### Further variants can be ordered using the modular system

Service unit combinations → [www.festo.com/en/engineering](http://www.festo.com/en/engineering)

- Connection size
- Connecting plates
- Service unit equipment
- Alternative flow direction

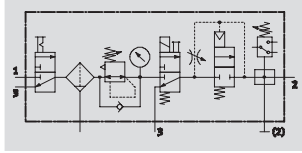
# Service unit combinations MSB4/MSB6, MS series

Technical data

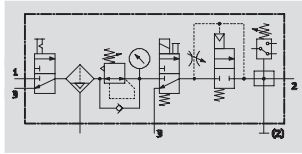
FESTO

Function

With condensate drain  
manual rotary



With condensate drain  
fully automatic



-  - Flow rate  
700 ... 3,100 l/min
-  - Temperature range  
-10 ... +60 °C
-  - Pressure regulation  
range  
4 ... 12 bar



- For filtered and unlubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range
- Gradual pressure build-up prevents sudden, unpredictable movements
- To shut-off and vent the following device or the system
- Electrical pressure monitoring with adjustable switching pressure

- On-off valve MS...-EM1 manually actuated
- Filter regulator MS...-LFR-D7
- On-off valve MS...-EE-10V24 or MS...-EE-V24 solenoid actuated
- Soft-start valve MS...-DL pneumatically actuated
- Branching module MS...-FRM-Y with pressure switch without display
- Mounting bracket MS...-WP

| General technical data          |                                                             |      |
|---------------------------------|-------------------------------------------------------------|------|
| Size                            | MSB4                                                        | MSB6 |
| Pneumatic connection 1, 2, 3    | G1/4                                                        | G1/2 |
| Regulating function             | With primary pressure compensation                          |      |
|                                 | With return flow function                                   |      |
|                                 | With secondary venting                                      |      |
|                                 | Output pressure constant                                    |      |
| Type of mounting                | Via accessories                                             |      |
| Assembly position               | Vertical ±5°                                                |      |
| Grade of filtration [µm]        | 5 (air purity class at the output 3.7.- to DIN ISO 8573-1)  |      |
|                                 | 40 (air purity class at the output 5.7.- to DIN ISO 8573-1) |      |
| Bowl guard                      | Plastic bowl guard                                          |      |
| Condensate drain                | Manual rotary                                               |      |
|                                 | Fully automatic                                             |      |
| Actuator lock                   | Rotary knob with detent                                     |      |
|                                 | Lockable with accessories                                   |      |
| Pressure regulation range [bar] | 4 ... 9 (with on-off valve MS...-EE-10V24)                  |      |
|                                 | 4 ... 12 (with on-off valve MS...-EE-V24)                   |      |
| Pressure indicator              | With pressure gauge                                         |      |
| Supply voltage [V DC]           | 24                                                          |      |

-  - Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

| Standard nominal flow rate qnN [l/min] |       |      |       |
|----------------------------------------|-------|------|-------|
| Size                                   |       | MSB4 | MSB6  |
| Grade of filtration                    | 5 µm  | 700  | 3,000 |
|                                        | 40 µm | 750  | 3,100 |

# Service unit combinations MSB4/MSB6, MS series

FESTO

Technical data

| Operating and environmental conditions |                                                                                |            |                 |            |                                        |            |                 |            |
|----------------------------------------|--------------------------------------------------------------------------------|------------|-----------------|------------|----------------------------------------|------------|-----------------|------------|
|                                        | Pressure regulation range 4 ... 9 bar                                          |            |                 |            | Pressure regulation range 4 ... 12 bar |            |                 |            |
| Condensate drain                       | Manual rotary                                                                  |            | Fully automatic |            | Manual rotary                          |            | Fully automatic |            |
| Size                                   | MSB4                                                                           | MSB6       | MSB4            | MSB6       | MSB4                                   | MSB6       | MSB4            | MSB6       |
| Supply pressure [bar]                  | 4.5 ... 10                                                                     | 4.5 ... 10 | 4.5 ... 10      | 4.5 ... 10 | 4.5 ... 14                             | 4.5 ... 18 | 4.5 ... 12      | 4.5 ... 12 |
| Operating medium                       | Filtered compressed air, lubricated or unlubricated, grade of filtration 40 µm |            |                 |            |                                        |            |                 |            |
| Ambient temperature [°C]               | -10 ... +50                                                                    |            | +5 ... +50      |            | -10 ... +60                            |            | +5 ... +60      |            |
| Temperature of medium [°C]             | -10 ... +50                                                                    |            | +5 ... +50      |            | -10 ... +60                            |            | +5 ... +60      |            |
| Storage temperature [°C]               | -10 ... +60                                                                    |            | -10 ... +60     |            | -10 ... +60                            |            | -10 ... +60     |            |
| Corrosion resistance CRC <sup>1)</sup> | 2                                                                              |            |                 |            |                                        |            |                 |            |

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

| Weights [g]              |       |       |
|--------------------------|-------|-------|
| Size                     | MSB4  | MSB6  |
| Service unit combination | 2,200 | 3,500 |
| Mounting bracket         | 40    | 76    |

 Note  
Materials → Technical data of the individual devices

## Standard flow rate qn as a function of output pressure p2

Pressure regulation range

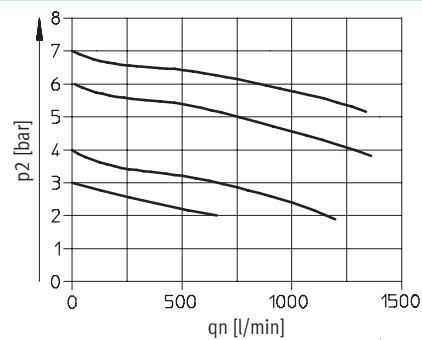
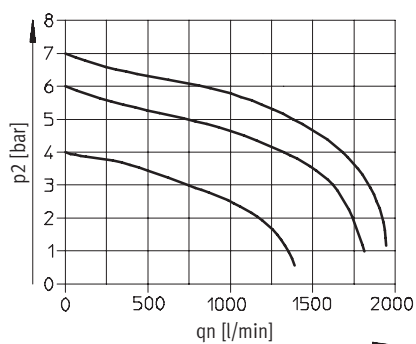
Grade of filtration 5 µm

Grade of filtration 40 µm

4 ... 9 bar / 4 ... 12 bar

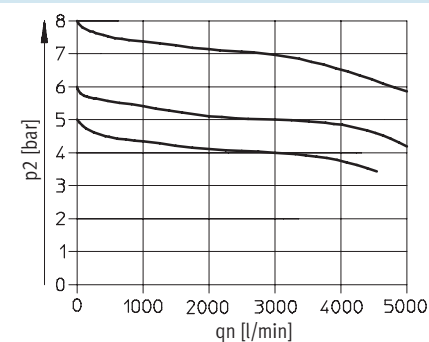
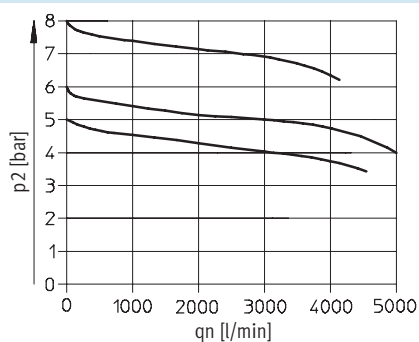
MSB4-1/4

Primary pressure p1 = 10 bar



MSB6-1/2

Primary pressure p1 = 10 bar



# Service unit combinations MSB4/MSB6, MS series

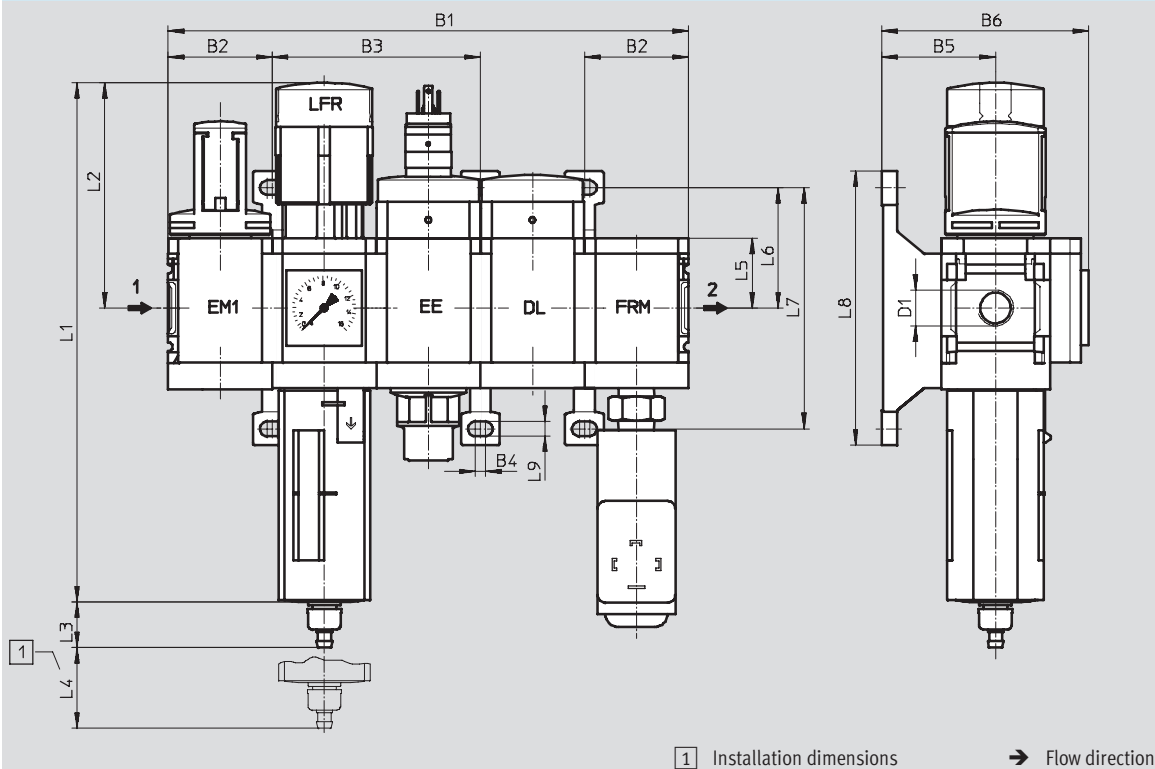
Technical data

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## Dimensions

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

With pressure gauge, display unit [bar]



| Type | B1  | B2   | B3   | B4  | B5 | B6  | D1              | L1  | L2    |
|------|-----|------|------|-----|----|-----|-----------------|-----|-------|
| MSB4 | 201 | 40.2 | 80.4 | 4   | 44 | 80  | G $\frac{1}{4}$ | 201 | 87    |
| MSB6 | 310 | 62   | 124  | 4.5 | 54 | 100 | G $\frac{1}{2}$ | 285 | 134.5 |

| Type | L3<br>Condensate drain |                 | L4 | L5 | L6   | L7   | L8  | L9  |
|------|------------------------|-----------------|----|----|------|------|-----|-----|
|      | manual rotary          | fully automatic |    |    |      |      |     |     |
| MSB4 | 17.7                   | 20.4            | 25 | 27 | 46.5 | 93.2 | 106 | 5.6 |
| MSB6 | 15.8                   | 18.5            | 68 | 39 | 71   | 142  | 158 | 6.6 |

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

## Service unit combinations MSB4/MSB6, MS series

**FESTO**

Technical data

| Ordering data                         |                  |            |                          |                      |  |                              |
|---------------------------------------|------------------|------------|--------------------------|----------------------|--|------------------------------|
| Pressure regulation range 4 ... 9 bar |                  |            |                          |                      |  |                              |
| Size                                  | Condensate drain | Connection | Grade of filtration 5 µm |                      |  | Grade of filtration 40 µm    |
|                                       |                  |            | Part No.                 | Type                 |  | Part No.                     |
| Plastic bowl guard                    |                  |            |                          |                      |  |                              |
| MSB4                                  | manual rotary    | G¼         | 542 623                  | MSB4-¼:C3J3D7A1F3-WP |  | 542 618 MSB4-¼:C3J1D7A1F3-WP |
|                                       | fully automatic  | G¼         | 542 625                  | MSB4-¼:C3J4D7A1F3-WP |  | 542 621 MSB4-¼:C3J2D7A1F3-WP |
| MSB6                                  | manual rotary    | G½         | 542 639                  | MSB6-½:C3J3D7A1F3-WP |  | 542 635 MSB6-½:C3J1D7A1F3-WP |
|                                       | fully automatic  | G½         | 542 641                  | MSB6-½:C3J4D7A1F3-WP |  | 542 637 MSB6-½:C3J2D7A1F3-WP |

| Ordering data                          |                  |            |                          |                      |  |                              |
|----------------------------------------|------------------|------------|--------------------------|----------------------|--|------------------------------|
| Pressure regulation range 4 ... 12 bar |                  |            |                          |                      |  |                              |
| Size                                   | Condensate drain | Connection | Grade of filtration 5 µm |                      |  | Grade of filtration 40 µm    |
|                                        |                  |            | Part No.                 | Type                 |  | Part No.                     |
| Plastic bowl guard                     |                  |            |                          |                      |  |                              |
| MSB4                                   | manual rotary    | G¼         | 542 305                  | MSB4-¼:C3J3D1A1F3-WP |  | 542 293 MSB4-¼:C3J1D1A1F3-WP |
|                                        | fully automatic  | G¼         | 542 311                  | MSB4-¼:C3J4D1A1F3-WP |  | 542 299 MSB4-¼:C3J2D1A1F3-WP |
| MSB6                                   | manual rotary    | G½         | 542 281                  | MSB6-½:C3J3D1A1F3-WP |  | 542 269 MSB6-½:C3J1D1A1F3-WP |
|                                        | fully automatic  | G½         | 542 287                  | MSB6-½:C3J4D1A1F3-WP |  | 542 275 MSB6-½:C3J2D1A1F3-WP |

MS series service units  
Service units

2





## MS series service units

Accessories

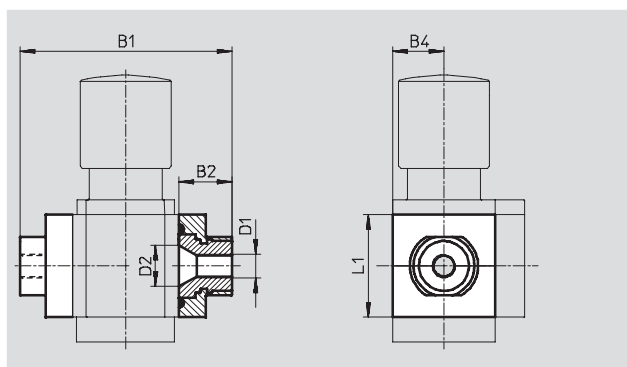
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### Connecting plate MS4/6-AG...

(order code: AG...)

- Adapter for pneumatic connection
- MS6-AGE for implementing threaded connection G $\frac{3}{4}$

Material:  
Aluminium



| Dimensions and ordering data |      |      |    |                 |      |    |            |          |         |
|------------------------------|------|------|----|-----------------|------|----|------------|----------|---------|
| Size                         | B1   | B2   | B4 | D1              | D2   | L1 | Weight [g] | Part No. | Type    |
| MS4                          | 83.5 | 21.5 | 21 | G $\frac{1}{8}$ | 16.8 | 42 | 128        | 526 068  | MS4-AGA |
|                              |      |      |    | G $\frac{1}{4}$ |      |    |            | 526 069  | MS4-AGB |
|                              |      |      |    | G $\frac{3}{8}$ |      |    |            | 526 070  | MS4-AGC |
| MS6                          | 115  | 26.5 | 31 | G $\frac{1}{4}$ | 24   | 62 | 300        | 526 080  | MS6-AGB |
|                              |      |      |    | G $\frac{3}{8}$ |      |    |            | 526 081  | MS6-AGC |
|                              |      |      |    | G $\frac{1}{2}$ |      |    |            | 526 082  | MS6-AGD |
|                              |      |      |    | G $\frac{3}{4}$ |      |    |            | 526 083  | MS6-AGE |

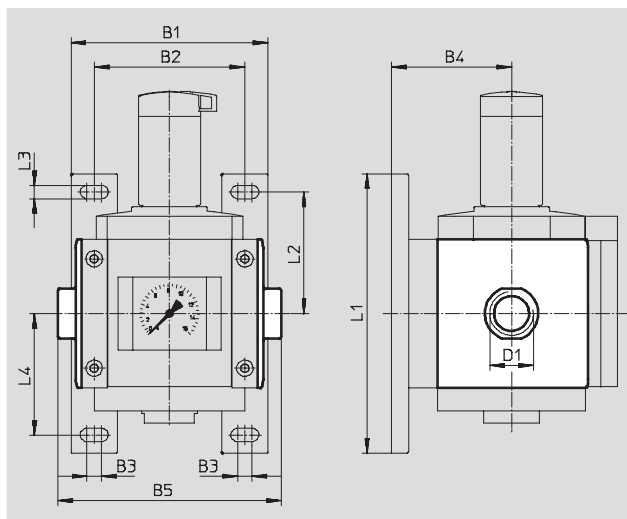
• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

### Connecting plate MS12-AG...

(order code: AG...)

- Adapter for pneumatic connection

Material:  
Die-cast aluminium  
Free of copper and PTFE



| Dimensions and ordering data |     |     |    |    |     |                  |     |     |    |     |            |                  |
|------------------------------|-----|-----|----|----|-----|------------------|-----|-----|----|-----|------------|------------------|
| Size                         | B1  | B2  | B3 | B4 | B5  | D1               | L1  | L2  | L3 | L4  | Weight [g] | Part No. Type    |
| MS12                         | 162 | 124 | 12 | 99 | 184 | G1               | 230 | 100 | 11 | 100 | 1,300      | 537 135 MS12-AGF |
|                              |     |     |    |    | 184 | G1 $\frac{1}{4}$ |     |     |    |     |            | 537 136 MS12-AGG |
|                              |     |     |    |    | 184 | G1 $\frac{1}{2}$ |     |     |    |     |            | 537 137 MS12-AGH |
|                              |     |     |    |    | 196 | G2               |     |     |    |     |            | 537 138 MS12-AGI |

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

## MS series service units

Accessories

**FESTO**

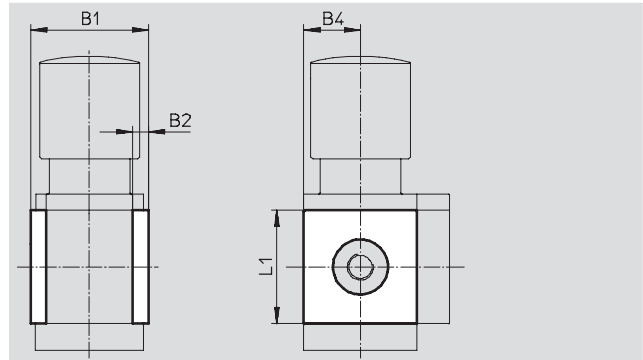
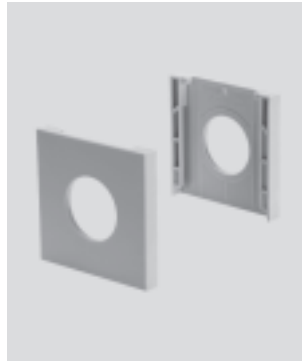
### Cover cap MS4/6-END

- Can be used to cover the body sides of the first and last module if connecting plates are not used.

Material:

Reinforced polyamide

Free of copper and PTFE



| Dimensions and ordering data |      |    |    |    |          |         |
|------------------------------|------|----|----|----|----------|---------|
| Size                         | B1   | B2 | B4 | L1 | Part No. | Type    |
| MS4                          | 43.6 | 6  | 21 | 42 | 538 779  | MS4-END |
| MS6                          | 67   | 8  | 31 | 62 | 538 780  | MS6-END |

 Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

### Mounting plate MS4/6-AEND

(order code: WBE; scope of delivery includes wall mounting plate MS6-WPB)

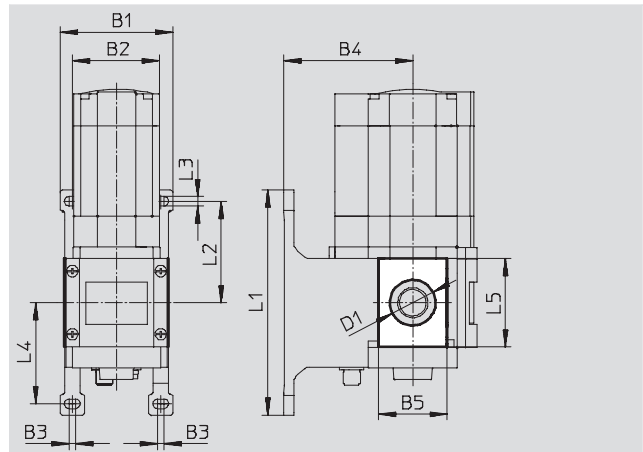
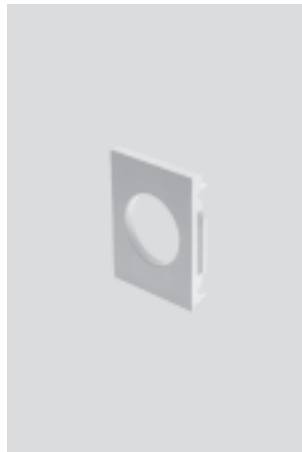
- In combination with wall mounting plate MS-WP or MS-WPB for mounting an individual unit on a wall with direct thread

Material:

Reinforced polyamide

Conforms to RoHS

Free of copper and PTFE



| Dimensions and ordering data |      |      |     |    |      |      |         |     |      |     |      |    |                   |               |          |          |                                                                                           |
|------------------------------|------|------|-----|----|------|------|---------|-----|------|-----|------|----|-------------------|---------------|----------|----------|-------------------------------------------------------------------------------------------|
| Size                         | B1   | B2   | B3  | B4 |      | B5   | D1<br>Ø | L1  | L2   | L3  | L4   | L5 | CRC <sup>1)</sup> | Weight<br>[g] | Part No. | Type     |                                                                                           |
|                              |      |      |     | WP | WPB  |      |         |     |      |     |      |    |                   |               |          |          |                                                                                           |
| MS4                          | 55.2 | 40.2 | 4   | 44 | 66   | 30.4 | 20.3    | 106 | 46.5 | 5.6 | 46.7 | 42 | 2                 | 4             | 542 966  | MS4-AEND |  New |
| MS6                          | 79   | 62   | 4.5 | 54 | 90.5 | 48.4 | 32      | 158 | 71   | 6.6 | 71   | 62 | 2                 | 17            | 535 408  | MS6-AEND |                                                                                           |

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

# MS series service units

Accessories

FESTO

## Mounting bracket MS4/6-WP...

Clearances for mounting service unit combinations

1 unit

MS4-...: 40 mm

MS6-...: 62 mm

2 units

MS4-...: 80 mm

MS6-...: 124 mm with WP, WPB

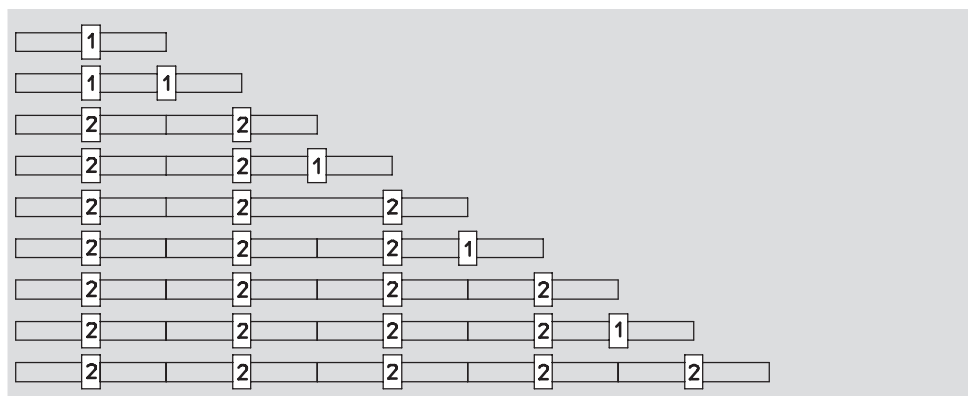
138 mm with WPM-2D

1 Mounting bracket WP, WPB or WPM-D

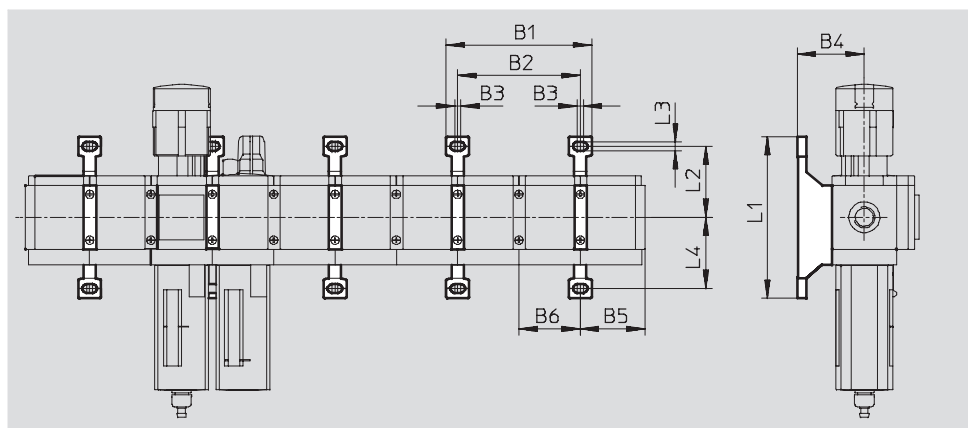
2 Mounting bracket WP, WPB or WPM-2D

Number of units

1 2 3 4 5 6 7 8 9 10



## Mounting dimensions



| Type         | B1   | B2  | B3   | B4   | B5   | B6 | L1   | L2   | L3  | L4   |
|--------------|------|-----|------|------|------|----|------|------|-----|------|
| MS4-WP       | 95.2 | 80  | 4    | 44   | 41.9 | 40 | 106  | 46.5 | 5.6 | 46.7 |
| MS4-WPB      |      |     |      | 66   |      |    |      |      |     |      |
| MS4-WPM-...D |      |     |      | 44   |      |    |      |      |     |      |
| MS6-WP       | 141  | 124 | 4.5  | 54   | 64.5 | 62 | 158  | 71   | 6.6 | 71   |
| MS6-WPB      |      |     |      | 90.5 |      |    |      |      |     |      |
| MS6-WPM-...D |      |     |      | 54   |      |    |      |      |     |      |
|              | 168  | 138 | 17.5 | 54   | 65.5 | 69 | 98.6 | 41.3 |     | 41.3 |

## MS series service units

Accessories

FESTO

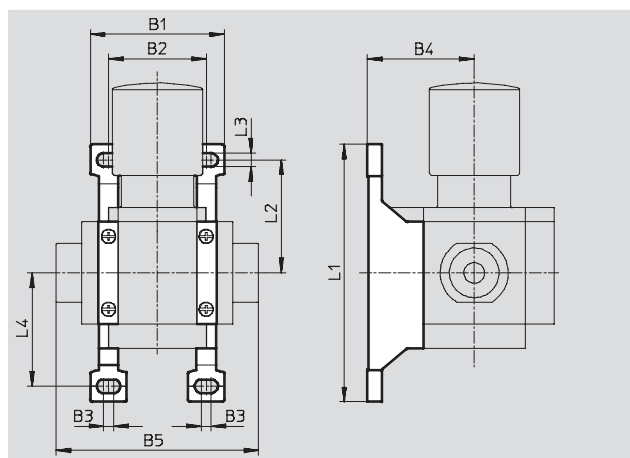
### Mounting bracket MS4/6-WP

(order code: WP)

- For connecting the modules for wall mounting
- In combination with a connecting plate MS4/6-AG... for mounting an individual unit on a wall
- In combination with mounting plate MS-AEND or for mounting an individual unit with direct thread on a wall
- For pressure regulator LRB with angled outlet block B... at rear

Material:

Die-cast aluminium



| Dimensions and ordering data |      |      |     |    |      |     |      |     |      |            |                |
|------------------------------|------|------|-----|----|------|-----|------|-----|------|------------|----------------|
| Size                         | B1   | B2   | B3  | B4 | B5   | L1  | L2   | L3  | L4   | Weight [g] | Part No. Type  |
| MS4                          | 55.2 | 40.2 | 4   | 44 | 83.4 | 106 | 46.5 | 5.6 | 46.7 | 39         | 532 184 MS4-WP |
| MS6                          | 79   | 62   | 4.5 | 54 | 115  | 158 | 71   | 6.6 | 71   | 76         | 532 195 MS6-WP |

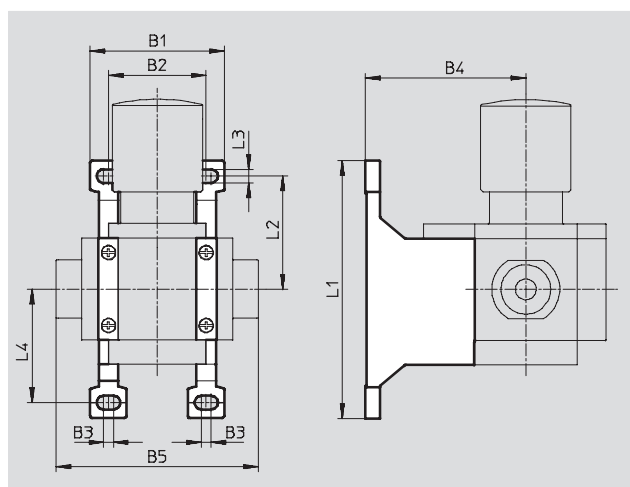
### Mounting bracket MS4/6-WPB

(order code: WPB)

- For connecting the modules for wall mounting
- In combination with a connecting plate MS4/6-AG... for mounting an individual unit on a wall
- In combination with mounting plate MS-AEND or for mounting an individual unit with direct thread on a wall
- Provides large wall gap for pressure regulator

Material:

Die-cast aluminium



| Dimensions and ordering data |      |      |     |      |      |     |      |     |      |            |                 |
|------------------------------|------|------|-----|------|------|-----|------|-----|------|------------|-----------------|
| Size                         | B1   | B2   | B3  | B4   | B5   | L1  | L2   | L3  | L4   | Weight [g] | Part No. Type   |
| MS4                          | 55.2 | 40.2 | 4   | 66   | 83.4 | 106 | 46.5 | 5.6 | 46.7 | 55         | 526 063 MS4-WPB |
| MS6                          | 79   | 62   | 4.5 | 90.5 | 115  | 158 | 71   | 6.6 | 71   | 115        | 526 074 MS6-WPB |

# MS series service units

Accessories

FESTO

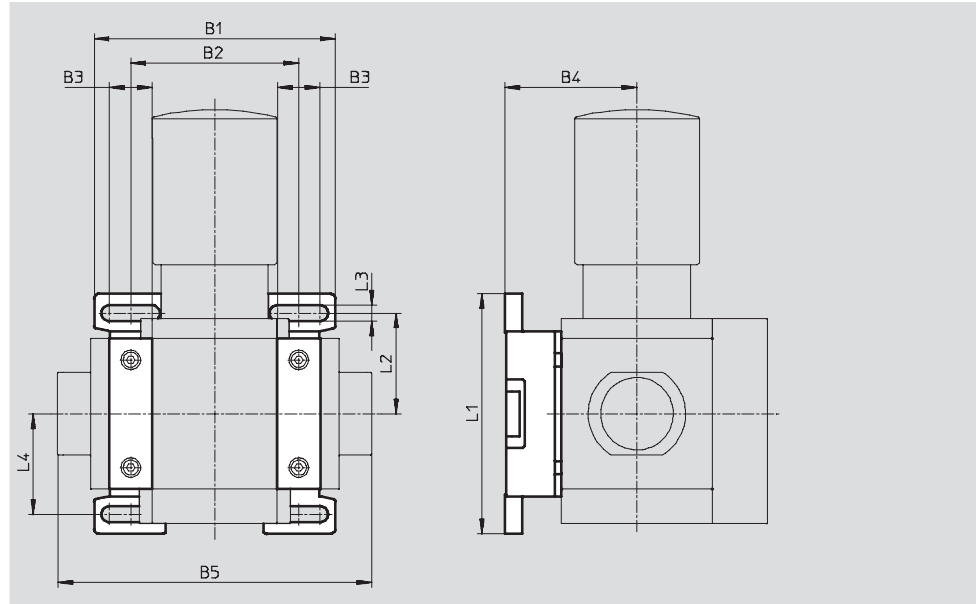
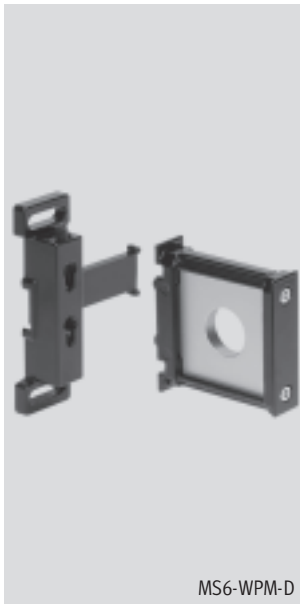
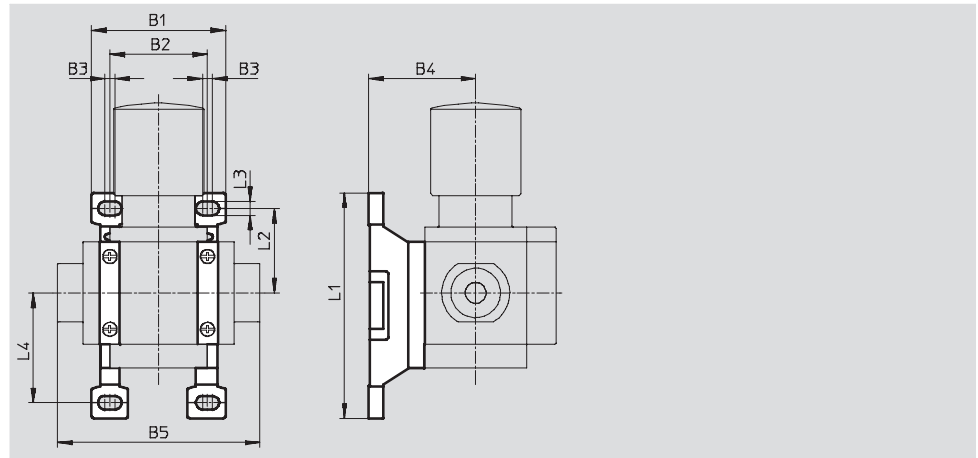
## Mounting bracket MS4/6-WPM

(order code: WPM)

- For connecting the modules for wall mounting
- In combination with a connecting plate MS4/6-AG... for mounting an individual unit on a wall
- Speedy attachment and detachment
- For installation of modules with regulating knob pointing downwards

The distance piece D or 2D (designated in the type code) is included in the scope of delivery and ensures the correct clearance

Material:  
Die-cast aluminium



| Dimensions and ordering data |      |     |      |    |       |      |      |     |      |           |            |          |            |
|------------------------------|------|-----|------|----|-------|------|------|-----|------|-----------|------------|----------|------------|
| Size                         | B1   | B2  | B3   | B4 | B5    | L1   | L2   | L3  | L4   | Clearance | Weight [g] | Part No. | Type       |
| MS4                          | 55.2 | 40  | 4    | 44 | 83.4  | 92.8 | 34.8 | 5.6 | 45.2 | 40        | 45         | 526 060  | MS4-WPM-D  |
|                              | 95.2 | 80  |      |    | 123.4 |      |      |     |      | 80        | 55         | 526 061  | MS4-WPM-2D |
| MS6                          | 99   | 69  | 17.5 | 54 | 129   | 98.6 | 41.3 | 6.6 | 41.3 | 62        | 144        | 526 073  | MS6-WPM-D  |
|                              | 168  | 138 |      |    | 198   |      |      |     |      | 124       | 154        | 532 186  | MS6-WPM-2D |

## MS series service units

Accessories

FESTO

### Wall mounting plate MS12-WP

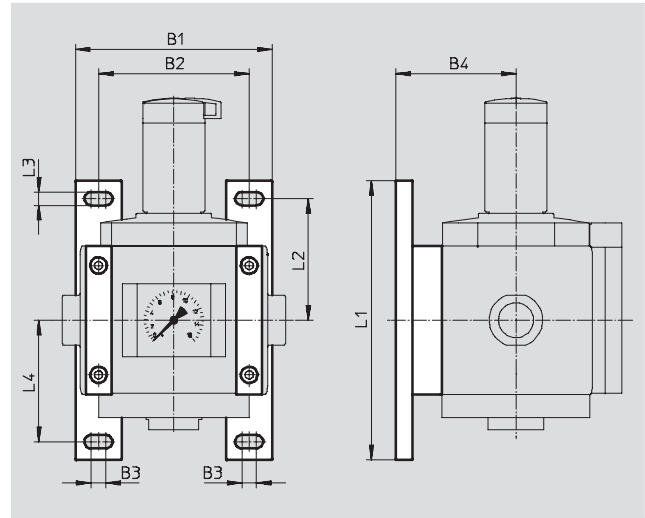
(order code: WP)

- For connecting the modules for wall mounting
- In combination with a connecting plate for mounting an individual unit on a wall

Material:

Die-cast aluminium

Free of copper and PTFE



#### Dimensions and ordering data

| Size | B1  | B2  | B3 | B4 | L1  | L2  | L3 | L4  | Weight [g] | Part No. | Type    |
|------|-----|-----|----|----|-----|-----|----|-----|------------|----------|---------|
| MS12 | 162 | 124 | 12 | 99 | 230 | 100 | 11 | 100 | 700        | 537 133  | MS12-WP |

### Module connector MS...-MV

- For connecting modules

Material:

MS4/6: Stainless steel/polyacetate

MS12: Die-cast aluminium,

free of copper and PTFE



MS4/6



MS12

#### Ordering data

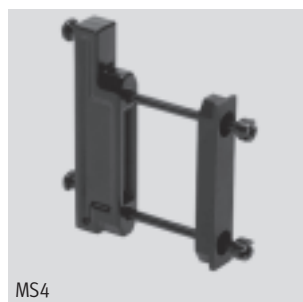
| Size | Weight [g] | Part No. | Type    |
|------|------------|----------|---------|
| MS4  | 36         | 532 798  | MS4-MV  |
| MS6  | 54         | 532 799  | MS6-MV  |
| MS12 | 500        | 537 134  | MS12-MV |

### Module connector MS4/6-MVM

- For installation of modules with regulating knob pointing downwards

Material:

Die-cast aluminium



MS4



MS6

#### Ordering data

| Size | Part No. | Type    |
|------|----------|---------|
| MS4  | 532 800  | MS4-MVM |
| MS6  | 532 801  | MS6-MVM |

## MS series service units

Accessories

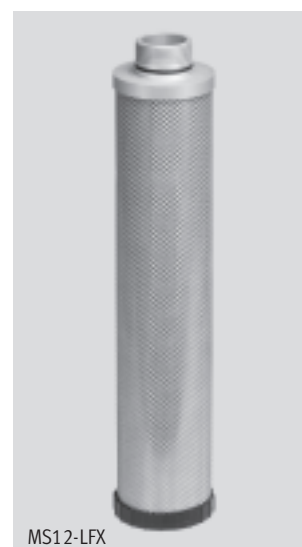
**FESTO**

Filter cartridge MS4/6-LF...



| Ordering data |                                                                 |                             |          |                                                                                                    |
|---------------|-----------------------------------------------------------------|-----------------------------|----------|----------------------------------------------------------------------------------------------------|
| Size          |                                                                 | Grade of filtration<br>[μm] | Part No. | Type                                                                                               |
| MS4           | Micro-filter cartridge                                          | 0.01                        | 162 674  | MS4/D-MINI-LFM-A                                                                                   |
|               | Fine-filter cartridge                                           | 1                           | 162 677  | MS4/D-MINI-LFM-B                                                                                   |
|               | Filter cartridge                                                | 5                           | 534 501  | MS4-LFP-C                                                                                          |
|               | Filter cartridge                                                | 40                          | 534 502  | MS4-LFP-E                                                                                          |
|               | Active carbon filter cartridge                                  | –                           | 532 912  | MS4/D-MINI-LFX                                                                                     |
| MS6           | Micro-filter cartridge                                          | 0.01                        | 532 909  | MS6-LFM-A                                                                                          |
|               | Micro-filter cartridge (for variant HF, high flow rate)         | 0.01                        | 552 093  | MS6-LFM-A-HF  |
|               | Fine-filter cartridge                                           | 1                           | 532 910  | MS6-LFM-B                                                                                          |
|               | Fine-filter cartridge (for variant HF, high flow rate)          | 1                           | 552 092  | MS6-LFM-B-HF  |
|               | Filter cartridge                                                | 5                           | 534 499  | MS6-LFP-C                                                                                          |
|               | Filter cartridge                                                | 40                          | 534 500  | MS6-LFP-E                                                                                          |
|               | Active carbon filter cartridge                                  | –                           | 532 911  | MS6-LFX                                                                                            |
|               | Active carbon filter cartridge (for variant HF, high flow rate) | –                           | 552 094  | MS6-LFX-HF    |

Filter cartridge MS12-LF...



| Ordering data |                                |                             |          |            |
|---------------|--------------------------------|-----------------------------|----------|------------|
| Size          |                                | Grade of filtration<br>[μm] | Part No. | Type       |
| MS12          | Micro-filter cartridge         | 0.01                        | 537 146  | MS12-LFM-A |
|               | Fine-filter cartridge          | 1                           | 537 145  | MS12-LFM-B |
|               | Filter cartridge               | 5                           | 537 143  | MS12-LFP-C |
|               | Filter cartridge               | 40                          | 537 144  | MS12-LFP-E |
|               | Active carbon filter cartridge | –                           | 537 147  | MS12-LFX   |

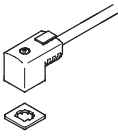
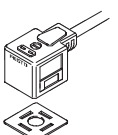
## MS series service units

Accessories

**FESTO**

| Ordering data – Angled socket PEV                                                 |                    |                         |                       |                          | Technical data → <a href="http://www.festo.com">www.festo.com</a> |                           |
|-----------------------------------------------------------------------------------|--------------------|-------------------------|-----------------------|--------------------------|-------------------------------------------------------------------|---------------------------|
|                                                                                   | Description        | Operating voltage range | Electrical connection | Switching status display | Part No.                                                          | Type                      |
|  | for PEV-1/4-...-OD | 15 ... 30 V DC          | 4-pin                 | Yellow LED               | <b>164 274</b>                                                    | <b>PEV-1/4-WD-LED-24</b>  |
|                                                                                   |                    | ≤ 230 V AC              | 4-pin                 | Yellow LED               | <b>164 275</b>                                                    | <b>PEV-1/4-WD-LED-230</b> |
|                                                                                   |                    | ≤ 180 V DC              |                       |                          |                                                                   |                           |

| Ordering data – Plug socket MSSD                                                  |                    |                         |                       |                                    | Technical data → <a href="http://www.festo.com">www.festo.com</a> |                      |
|-----------------------------------------------------------------------------------|--------------------|-------------------------|-----------------------|------------------------------------|-------------------------------------------------------------------|----------------------|
|                                                                                   | Description        | Operating voltage range | Electrical connection | Type of mounting cable connection  | Part No.                                                          | Type                 |
|  | for PEV-1/4-...-OD | ≤ 250 V AC/DC           | 3-pin                 | Clamping screws                    | <b>171 157</b>                                                    | <b>MSSD-C-4P</b>     |
|                                                                                   | for MS4/6-EE/DE    | ≤ 250 V AC/DC           | 3-pin                 | Clamping screws                    | <b>151 687</b>                                                    | <b>MSSD-EB</b>       |
|                                                                                   |                    |                         | 4-pin                 | Insulation displacement technology | <b>192 745</b>                                                    | <b>MSSD-EB-S-M14</b> |
|                                                                                   | for MS12-EE/DE     | ≤ 250 V AC/DC           | 3-pin                 | Clamping screws                    | <b>34 583</b>                                                     | <b>MSSD-C</b>        |
|                                                                                   |                    |                         | 4-pin                 | Insulation displacement technology | <b>192 748</b>                                                    | <b>MSSD-C-S-M16</b>  |

| Ordering data – Plug socket with cable KMEB/KMC                                     |                 |                         |                       |                          |                  | Technical data → <a href="http://www.festo.com">www.festo.com</a> |                           |
|-------------------------------------------------------------------------------------|-----------------|-------------------------|-----------------------|--------------------------|------------------|-------------------------------------------------------------------|---------------------------|
|                                                                                     | Description     | Operating voltage range | Electrical connection | Switching status display | Cable length [m] | Part No.                                                          | Type                      |
|  | for MS4/6-EE/DE | 24 V DC                 | 2-pin                 | LED                      | 2.5              | <b>547 268</b>                                                    | <b>KMEB-3-24-2,5-LED</b>  |
|                                                                                     |                 |                         |                       |                          | 5                | <b>547 269</b>                                                    | <b>KMEB-3-24-5-LED</b>    |
|                                                                                     |                 |                         |                       | –                        | 2.5              | <b>547 270</b>                                                    | <b>KMEB-3-24-2,5</b>      |
|                                                                                     |                 |                         |                       |                          | 5                | <b>547 271</b>                                                    | <b>KMEB-3-24-5</b>        |
|                                                                                     |                 |                         | 3-pin                 | LED                      | 2.5              | <b>151 688</b>                                                    | <b>KMEB-1-24-2,5-LED</b>  |
|                                                                                     |                 |                         |                       |                          | 5                | <b>151 689</b>                                                    | <b>KMEB-1-24-5-LED</b>    |
|                                                                                     |                 |                         |                       |                          | 10               | <b>193 457</b>                                                    | <b>KMEB-1-24-10-LED</b>   |
|                                                                                     |                 | 230 V AC                | 3-pin                 | –                        | 2.5              | <b>151 690</b>                                                    | <b>KMEB-1-230AC-2,5</b>   |
|                                                                                     |                 |                         |                       |                          | 5                | <b>151 691</b>                                                    | <b>KMEB-1-230AC-5</b>     |
|                                                                                     |                 |                         |                       |                          |                  |                                                                   |                           |
|                                                                                     |                 |                         |                       |                          |                  |                                                                   |                           |
|  | for MS12-EE/DE  | 24 V DC                 | 3-pin                 | LED                      | 2.5              | <b>30 931</b>                                                     | <b>KMC-1-24DC-2,5-LED</b> |
|                                                                                     |                 |                         |                       |                          | 5                | <b>30 933</b>                                                     | <b>KMC-1-24DC-5-LED</b>   |
|                                                                                     |                 |                         |                       |                          | 10               | <b>193 459</b>                                                    | <b>KMC-1-24-10-LED</b>    |
|                                                                                     |                 | 230 V AC                | 3-pin                 | –                        | 2.5              | <b>30 932</b>                                                     | <b>KMC-1-230AC-2,5</b>    |
|                                                                                     |                 |                         |                       |                          | 5                | <b>30 934</b>                                                     | <b>KMC-1-230AC-5</b>      |
|                                                                                     |                 |                         |                       |                          |                  |                                                                   |                           |

| Ordering data – Illuminating seal MEB-LD/MC-LD                                      |                                                         |                         |                | Technical data → <a href="http://www.festo.com">www.festo.com</a> |  |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------|----------------|-------------------------------------------------------------------|--|
|                                                                                     | Description                                             | Operating voltage range | Part No.       | Type                                                              |  |
|  | for plug socket with cable KMEB and plug socket MSSD-EB | 12 ... 24 V DC          | <b>151 717</b> | <b>MEB-LD-12-24DC</b>                                             |  |
|                                                                                     |                                                         | 230 V DC/AC ±10%        | <b>151 718</b> | <b>MEB-LD-230AC</b>                                               |  |
|                                                                                     | for plug socket with cable KMC and plug socket MSSD-C   | 12 ... 24 V DC          | <b>19 145</b>  | <b>MC-LD-12-24DC</b>                                              |  |
|                                                                                     |                                                         | 230 V DC/AC ±10%        | <b>19 146</b>  | <b>MC-LD-230AC</b>                                                |  |

| Ordering data – Locking clip CPV18-HV                                               |                         |                                                        |                | Technical data → <a href="http://www.festo.com">www.festo.com</a> |           |
|-------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------|----------------|-------------------------------------------------------------------|-----------|
|                                                                                     | Description             | Part No.                                               | Type           | PU <sup>1)</sup>                                                  |           |
|  | for MS4/6-EE/DE-...-V24 | Cover for manual override, the clip prevents actuation | <b>530 056</b> | <b>CPV18-HV</b>                                                   | <b>10</b> |

1) Packaging unit quantity

## MS series service units

Accessories

**FESTO**

| Ordering data – Silencer U                                                        |                |                      | Technical data → <a href="http://www.festo.com">www.festo.com</a> |                |
|-----------------------------------------------------------------------------------|----------------|----------------------|-------------------------------------------------------------------|----------------|
|                                                                                   | Description    | Pneumatic connection | Part No.                                                          | Type           |
|  | for MS4-EM1/EE | G1/4                 | <b>6 842</b>                                                      | <b>U-1/4-B</b> |
|                                                                                   | for MS6-EM1/EE | G1/2                 | <b>6 844</b>                                                      | <b>U-1/2-B</b> |
|                                                                                   | for MS12-EM/EE | G1                   | <b>151 990</b>                                                    | <b>U-1-B</b>   |

| Ordering data – Double nipple ESK                                                 |                                                                                                                                   |                      |      |                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------|------|-----------------------------------|
|                                                                                   | Description                                                                                                                       | Pneumatic connection |      | Part No. Type                     |
|  | Adjustable for angular compensation<br>• For retro-fitting pressure switch PEV or pressure sensor SDE1 to branching module MS-FRM | R1/8                 | R1/4 | <b>534 151</b> <b>ESK-1/8-1/4</b> |
|                                                                                   |                                                                                                                                   | R1/4                 | R1/4 | <b>151 521</b> <b>ESK-1/4-1/4</b> |
|                                                                                   |                                                                                                                                   |                      | R1/2 | <b>534 153</b> <b>ESK-1/4-1/2</b> |

| Ordering data – Padlock LRV5-D                                                    |                                   |            |                              |
|-----------------------------------------------------------------------------------|-----------------------------------|------------|------------------------------|
|                                                                                   | Description                       | Weight [g] | Part No. Type                |
|  | for filter or pressure regulators | 120        | <b>193 786</b> <b>LRV5-D</b> |

| Ordering data – Special oil OFSW                                                    |                 |                   |                               |
|-------------------------------------------------------------------------------------|-----------------|-------------------|-------------------------------|
|                                                                                     | Description     | Scope of delivery | Part No. Type                 |
|  | for lubricators | 1 litre           | <b>152 811</b> <b>OFSW-32</b> |