



## Quick availability: selected products from the MS series



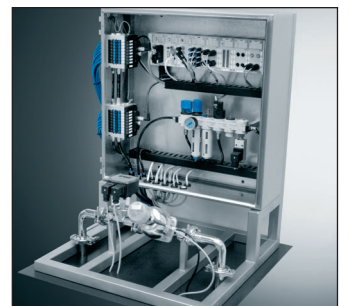
★ Individual devices



★ Pre-configured combinations  
ex-stock



Individually configurable combinations



Ready-to-install complete solutions

### ★ Quick ordering

- Fast: ready for dispatch in 24 hours
- Superb: Festo quality at an attractive price
- Easy: just 4 clicks to place an order

The selected products from this range are generally in stock and ready for immediate delivery.





We offer components and solutions for tasks that go beyond the core functions in the electronic catalogue.

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Or simply contact your Festo sales engineer, who will be pleased to help you.

## Ordering data

## ★ Quick ordering – Combinations



|   | Size | Pneumatic connection | Standard nominal flow rate | Pressure regulation range | Part No. | Type <sup>1)</sup>    |
|---|------|----------------------|----------------------------|---------------------------|----------|-----------------------|
| <b>Service unit combinations MSB</b>  |      |                      |                            |                           |          |                       |
|   | 4    | G $\frac{1}{4}$      | 900 l/min                  | 0.5 ... 12 bar            | 531117   | MSB4-1/4-FRC5:J1M1    |
|   | 6    | G $\frac{1}{2}$      | 3700 l/min                 | 0.5 ... 12 bar            | 530244   | MSB6-1/2-FRC5:J1M1    |
|   | 4    | G $\frac{1}{4}$      | 1400 l/min                 | 0.5 ... 10 bar            | 8025358  | MSB4-1/4-C3:J1:D14-WP |
|   | 6    | G $\frac{1}{2}$      | 4000 l/min                 | 0.5 ... 10 bar            | 8025359  | MSB6-1/2-C3:J1:D14-WP |
|   | 4    | G $\frac{1}{4}$      | 1600 l/min                 | 0.5 ... 10 bar            | 8025356  | MSB4-1/4-C3:J1:F12-WP |
|   | 6    | G $\frac{1}{2}$      | 4500 l/min                 | 0.5 ... 10 bar            | 8025357  | MSB6-1/2-C3:J1:F12-WP |
|  | 4    | G $\frac{1}{4}$      | 1700 l/min                 | 0.5 ... 12 bar            | 8025354  | MSB4-1/4-C3:J1-WP     |
|   | 6    | G $\frac{1}{2}$      | 5100 l/min                 | 0.5 ... 12 bar            | 8025355  | MSB6-1/2-C3:J1-WP     |

## ★ Quick ordering – Individual devices

|  | Size | Pneumatic connection | Standard nominal flow rate | Actuation type | Silencer | Part No.          | Type                 |
|--|------|----------------------|----------------------------|----------------|----------|-------------------|----------------------|
| <b>Soft-start valves MS-DL</b>   |      |                      |                            |                |          |                   |                      |
|  | 4    | G $\frac{1}{4}$      | 2000 l/min                 | Pneumatic      | –        | 529531            | MS4-DL-1/4           |
|  | 6    | G $\frac{1}{2}$      | 6450 l/min                 | Pneumatic      | –        | 529817            | MS6-DL-1/2           |
| <b>Soft-start/quick exhaust valves MS-SV</b>                                       |      |                      |                            |                |          |                   |                      |
|  | 6    | G $\frac{1}{2}$      | 5700 l/min                 | Electric       | ■        | 8001469           | MS6-SV-1/2-C-10V24-S |
|  | 9    | G1                   | 8300 ... 16,550 l/min      | Electric       | ■        | 570737            | MS9-SV-G-C-V24-S-VS  |
| <b>On-off valves MS-EE, MS-EM1, MS-EM</b>  |      |                      |                            |                |          |                   |                      |
|  | 4    | G $\frac{1}{4}$      | 2000 l/min                 | Electric       | –        | 542578            | MS4-EE-1/4-10V24     |
|  |      |                      |                            |                | ■        | 542598            | MS4-EE-1/4-10V24-S   |
|  | 6    | G $\frac{1}{2}$      | 7000 l/min                 | Electric       | –        | 542582            | MS6-EE-1/2-10V24     |
|  |      |                      |                            |                | ■        | 542602            | MS6-EE-1/2-10V24-S   |
| 9  | G1   | 18,000 l/min         | Electric                   | ■              | 562940   | MS9-EE-G-V24-S-VS |                      |
|  | 4    | G $\frac{1}{4}$      | 2200 l/min                 | Manual         | –        | 541258            | MS4-EM1-1/4          |
|  |      |                      |                            |                | ■        | 541259            | MS4-EM1-1/4-S        |
|  | 6    | G $\frac{1}{2}$      | 8700 l/min                 | Manual         | –        | 541267            | MS6-EM1-1/2          |
|  |      |                      |                            |                | ■        | 541268            | MS6-EM1-1/2-S        |
|  | 9    | G1                   | 18,000 l/min               | Manual         | ■        | 562952            | MS9-EM-G-S-VS        |




1) Type codes → Seite 4




## ★ Quick ordering – Individual devices



|   | Size                            | Pneumatic connection      | Standard nominal flow rate | Pressure regulation range | Part No.              | Type <sup>1)</sup>         |        |                       |
|---|---------------------------------|---------------------------|----------------------------|---------------------------|-----------------------|----------------------------|--------|-----------------------|
| <b>Pressure regulators MS-LR</b>  |                                 |                           |                            |                           |                       |                            |        |                       |
|  | 4                               | G1/4                      | 2100 l/min                 | 0.3 ... 4 bar             | 529415                | MS4-LR-1/4-D5-AS           |        |                       |
|   |                                 |                           | 1800 l/min                 | 0.3 ... 7 bar             | 529417                | MS4-LR-1/4-D6-AS           |        |                       |
|   |                                 |                           | 1700 l/min                 | 0.5 ... 12 bar            | 529419                | MS4-LR-1/4-D7-AS           |        |                       |
|   | 6                               | G1/2                      | 7500 l/min                 | 0.3 ... 4 bar             | 529989                | MS6-LR-1/2-D5-AS           |        |                       |
|   |                                 |                           | 6500 l/min                 | 0.3 ... 7 bar             | 529991                | MS6-LR-1/2-D6-AS           |        |                       |
|   |                                 |                           | 5500 l/min                 | 0.5 ... 12 bar            | 529993                | MS6-LR-1/2-D7-AS           |        |                       |
|   | 9                               | Without connecting thread | 28,000 l/min               | 0.5 ... 7 bar             | 564136                | MS9-LR-G-D6-AG-BAR-AS      |        |                       |
|   |                                 |                           | 28,000 l/min               | 0.5 ... 12 bar            | 564138                | MS9-LR-G-D7-AG-BAR-AS      |        |                       |
|   | <b>Filter regulators MS-LFR</b> |                           |                            |                           |                       |                            |        |                       |
|  | 4                               | G1/4                      | 1500 l/min                 | 0.3 ... 7 bar             | 529144                | MS4-LFR-1/4-D6-CRM-AS      |        |                       |
|   |                                 |                           | 1500 l/min                 |                           | 529146                | MS4-LFR-1/4-D6-CRV-AS      |        |                       |
|   |                                 |                           | 1700 l/min                 |                           | 529148                | MS4-LFR-1/4-D6-ERM-AS      |        |                       |
|   |                                 |                           | 1700 l/min                 |                           | 529150                | MS4-LFR-1/4-D6-ERV-AS      |        |                       |
|   |                                 |                           | 1200 l/min                 | 0.5 ... 12 bar            | 529152                | MS4-LFR-1/4-D7-CRM-AS      |        |                       |
|   |                                 |                           | 1200 l/min                 |                           | 529154                | MS4-LFR-1/4-D7-CRV-AS      |        |                       |
|   |                                 |                           | 1200 l/min                 |                           | 535720                | MS4-LFR-1/4-D7-CUV-AS      |        |                       |
|   |                                 |                           | 1500 l/min                 |                           | 529156                | MS4-LFR-1/4-D7-ERM-AS      |        |                       |
|   |                                 |                           | 1500 l/min                 |                           | 529158                | MS4-LFR-1/4-D7-ERV-AS      |        |                       |
|   |                                 |                           | 1500 l/min                 |                           | 535724                | MS4-LFR-1/4-D7-EUM-AS      |        |                       |
|   |                                 |                           | 1500 l/min                 | 535722                    | MS4-LFR-1/4-D7-EUV-AS |                            |        |                       |
|   |                                 |                           | 6                          | G1/2                      | 5600 l/min            | 0.3 ... 7 bar              | 529176 | MS6-LFR-1/2-D6-CRM-AS |
|   |                                 |                           |                            |                           | 5600 l/min            |                            | 529178 | MS6-LFR-1/2-D6-CRV-AS |
|   |                                 |                           |                            |                           | 6200 l/min            |                            | 529180 | MS6-LFR-1/2-D6-ERM-AS |
|   | 6200 l/min                      | 529182                    |                            |                           | MS6-LFR-1/2-D6-ERV-AS |                            |        |                       |
|   | 4000 l/min                      | 0.5 ... 12 bar            |                            |                           | 529184                | MS6-LFR-1/2-D7-CRM-AS      |        |                       |
|   | 4000 l/min                      |                           |                            | 529186                    | MS6-LFR-1/2-D7-CRV-AS |                            |        |                       |
|   | 4000 l/min                      |                           |                            | 530338                    | MS6-LFR-1/2-D7-CUM-AS |                            |        |                       |
|   | 4000 l/min                      |                           |                            | 530340                    | MS6-LFR-1/2-D7-CUV-AS |                            |        |                       |
|   | 4500 l/min                      |                           |                            | 529188                    | MS6-LFR-1/2-D7-ERM-AS |                            |        |                       |
|   | 4500 l/min                      | 529190                    |                            | MS6-LFR-1/2-D7-ERV-AS     |                       |                            |        |                       |
|   | 4500 l/min                      | 529192                    | MS6-LFR-1/2-D7-EUM-AS      |                           |                       |                            |        |                       |
|   | 4500 l/min                      | 529194                    | MS6-LFR-1/2-D7-EUV-AS      |                           |                       |                            |        |                       |
|   | 9                               | Without connecting thread | 20,000 l/min               | 0.5 ... 7 bar             | 564110                | MS9-LFR-G-D6-EUM-AG-BAR-AS |        |                       |
|   |                                 |                           | 20,000 l/min               |                           | 564111                | MS9-LFR-G-D6-EUV-AG-BAR-AS |        |                       |
|   |                                 |                           | 20,000 l/min               | 0.5 ... 12 bar            | 564118                | MS9-LFR-G-D7-EUM-AG-BAR-AS |        |                       |
|   |                                 |                           | 20,000 l/min               |                           | 564119                | MS9-LFR-G-D7-EUV-AG-BAR-AS |        |                       |

1) Type codes → Seite 4

## ★ Quick ordering – Accessories

|   | For size | Part No. | Type <sup>1)</sup> |
|---|----------|----------|--------------------|
| <b>Mounting brackets for individual devices and combinations</b>                    |          |          |                    |
|  | 4        | 532184   | MS4-WP             |
|   | 6        | 532195   | MS6-WP             |
|   | 9        | 552947   | MS9-WP             |
|  | 4        | 526063   | MS4-WPB            |
|   | 6        | 526074   | MS6-WPB            |
|   | 9        | 552949   | MS9-WPB            |
|  | 4        | 526060   | MS4-WPM-D          |
|   | 6        | 526073   | MS6-WPM-D          |
|   | 9        | 552948   | MS9-WPM            |

|   | For size | D1   | Part No. | Type <sup>2)</sup> |
|---|----------|------|----------|--------------------|
| <b>Mounting brackets for individual devices</b>                                     |          |      |          |                    |
|  | 4        | –    | 532185   | MS4-WB             |
|   | 6        | –    | 532196   | MS6-WB             |
|  | 4        | –    | 526064   | MS4-WR             |
|   | 6        | –    | 526075   | MS6-WR             |
| <b>Connecting plate kit</b>   |          |      |          |                    |
|  | 9        | G3/4 | 552955   | MS9-AGE            |
|   |          | G1   | 552956   | MS9-AGF            |
|   |          | G1/4 | 552957   | MS9-AGG            |
|   |          | G1/2 | 552958   | MS9-AGH            |

|   | For size | Part No. | Type <sup>3)</sup> |
|---|----------|----------|--------------------|
| <b>Module connector</b>   |          |          |                    |
|  | 4        | 8119201  | MS4-MV1            |
|   | 6        | 8119204  | MS6-MV1            |
|   | 9        | 552950   | MS9-MV             |
|  | 4        | 532800   | MS4-MVM            |
|   | 6        | 532801   | MS6-MVM            |

- 1) WP: basic design; WPB: with large wall gap; WPM: for hanging modules; WPM-D: for hanging modules with spacer  
2) WB: for centralised assembly, rear; WR: for mounting on the rotary knob  
3) MV: basic design; MVM: for installing modules with regulating knob pointing downwards

# Type codes



## Type codes – Service unit combinations

### Series

|            |                          |
|------------|--------------------------|
| <b>MSB</b> | Service unit combination |
|------------|--------------------------|

### Size

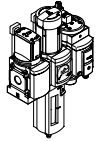
|          |                      |
|----------|----------------------|
| <b>4</b> | Grid dimension 40 mm |
| <b>6</b> | Grid dimension 62 mm |

### Pneumatic connection

|            |            |
|------------|------------|
| <b>1/4</b> | Thread 1/4 |
| <b>1/2</b> | Thread 1/2 |

### Service unit combination MSB

|                   |   |
|-------------------|---|
| <b>FRC5;J1:M1</b> | Filter regulator MS...-LFR-D7-ERM-AS and lubricator MS...-LOE-R with plastic bowl guard |
| <b>C3</b>         | On-off valve MS...-EM1  |
| <b>J1</b>         | Filter regulator MS...-LFR-D7-ERM-AS  |
| <b>D14</b>        | On-off valve MS...-EE-10V24P-AD7 with plug M12 and pressure sensor                      |
| <b>F12</b>        | Branching module MS...-FRM-AD7 with pressure sensor                                     |



### Type of mounting

|           |                       |
|-----------|-----------------------|
|           | None                  |
| <b>WP</b> | With mounting bracket |

## Type codes – Individual devices

### Series

|           |              |
|-----------|--------------|
| <b>MS</b> | Service unit |
|-----------|--------------|

### Size

|          |                      |
|----------|----------------------|
| <b>4</b> | Grid dimension 40 mm |
| <b>6</b> | Grid dimension 62 mm |
| <b>9</b> | Grid dimension 90 mm |

### Service function

|            |                                    |
|------------|------------------------------------|
| <b>DL</b>  | Soft-start valve                   |
| <b>SV</b>  | Soft-start/quick exhaust valve     |
| <b>EE</b>  | Electrically actuated on-off valve |
| <b>EM1</b> | Manually actuated on-off valve     |
| <b>EM</b>  |                                    |

### Pneumatic connection

|            |  |
|------------|--|
| <b>1/4</b> | Thread 1/4   |
| <b>1/2</b> | Thread 1/2   |
| <b>G</b>   | Module without connecting thread, without connecting plate |

### Series

|           |              |
|-----------|--------------|
| <b>MS</b> | Service unit |
|-----------|--------------|

### Size

|          |                      |
|----------|----------------------|
| <b>4</b> | Grid dimension 40 mm |
| <b>6</b> | Grid dimension 62 mm |
| <b>9</b> | Grid dimension 90 mm |

### Service function

|            |                    |
|------------|--------------------|
| <b>LR</b>  | Pressure regulator |
| <b>LFR</b> | Filter regulator   |

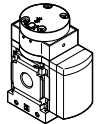
### Pneumatic connection

|            |  |
|------------|--|
| <b>1/4</b> | Thread 1/4   |
| <b>1/2</b> | Thread 1/2   |
| <b>G</b>   | Module without connecting thread, without connecting plate |

### Soft-start, exhaust, on-off valve MS-DL, MS-SV, MS-EE, MS-EM1, MS-EM:

#### Performance Level

|          |                               |
|----------|-------------------------------|
|          | None                          |
| <b>C</b> | Category 1, to EN ISO 13849-1 |



#### Supply voltage

|              |                       |
|--------------|-----------------------|
|              | None                  |
| <b>10V24</b> | 24 V DC, up to 10 bar |
| <b>V24</b>   | 24 V DC               |

#### Silencer

|          |               |
|----------|---------------|
|          | None          |
| <b>S</b> | With silencer |

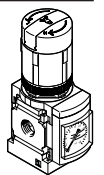
#### Pressure gauge/pressure gauge alternatives

|           |                            |
|-----------|----------------------------|
|           | MS4, MS6: with cover plate |
| <b>VS</b> | MS9: with cover plate      |

### Pressure, filter regulator MS-LR, MS-LFR:

#### Pressure regulation range

|           |   |
|-----------|---|
| <b>D5</b> | 0.3 ... 5 bar                                 |
| <b>D6</b> | MS4, MS6: 0.3 ... 7 bar; MS9: 0.5 ... 7 bar   |
| <b>D7</b> | MS4, MS6: 0.5 ... 12 bar; MS9: 0.5 ... 12 bar |



#### Grade of filtration

|          |       |
|----------|-------|
|          | None  |
| <b>C</b> | 5 µm  |
| <b>E</b> | 40 µm |

#### Bowl guard

|          |                                |
|----------|--------------------------------|
|          | None                           |
| <b>R</b> | Plastic bowl guard             |
| <b>U</b> | Integrated as metal bowl guard |

#### Condensate drain

|          |                 |
|----------|-----------------|
|          | None            |
| <b>M</b> | Manual rotary   |
| <b>V</b> | Fully automatic |

#### Pressure gauge

|           |  |
|-----------|--|
|           | MS4, MS6: with integrated pressure gauge |
| <b>AG</b> | MS9: with integrated pressure gauge      |

#### Pressure gauge scale

|            |               |
|------------|---------------|
|            | MS4, MS6: bar |
| <b>BAR</b> | MS9: bar      |

#### Security

|           |   |
|-----------|---|
| <b>AS</b> | Standard rotary knob with detent, can be locked using accessories |
|-----------|---|