

| ★/☆ | Festo core product range Covers 80% of your automation tasks | ★ G |
|------------|---|-----|
| | | N |
| Worldwide: | Always in stock | 🕁 G |
| Superb: | Festo quality at an attractive price | A |
| Easy: | Simplified procurement and warehousing | U |
| | | |

- Generally ready for shipping ex works in 24 hours In stock at 13 Service Centres worldwide More than 2200 products
- Generally ready for shipping ex works in 5 days Assembled for you at 4 Service Centres worldwide Up to 6 × 10¹² variants per product family



MS series service unit components Solutions for every application

With its large product range, highly effective components and a wide choice of functions, the MS series from Festo offers a complete concept for compressed air preparation. It is suitable for simple standard applications as well as application-specific solutions to the highest quality standards. Available as individual components, pre-assembled combinations ex-stock, application-specific combinations or complete turnkey solutions. The five sizes in the MS series achieve maximum flow rates with minimum space requirements.

Freely combinable function modules

All the individual components, such as pressure regulators, on/off and softstart valves with safety function, filters, pressure and flow sensors, dryers, sensors and lubricators, can be assembled into a suitable solution for every task. Their modular structure means that the components are freely combinable. The simple connection method saves time when replacing

individual modules without needing to dismantle the entire combination. Many of the components are also UL and ATEX certified.

CAD models and configurator

Integrated sensors

Convenient aids for planning and selecting application-specific individual components and combinations. The product configurator lets you configure customised solutions quickly and transfer the order data with no hassle.

Engineering tools

Selection tool for choosing the right service unit without oversizing, and with the right air quality class: → www.festo.com/engineering/ wartungseinheit

| | | | - | | |
|-----|------|-----------------------|-----|-----|----------------------|
| - | | - | | | |
| 1.4 | | | | - | Citatie G |
| | | 41 | | 1 | Stanline M |
| | | | | | Dott an Mon Piller * |
| | P | and a | | | |
| | Ł | 121 | 2 | | |
| | - | | | | |
| | 1000 | if said it later mate | ISC | 150 | ISO |

Energy savings Service units MSE6



- Fully automatic monitoring and regulation of compressed air supply
- Automatic shut-off of the compressed air in stand-by mode
- Detection and notification of leakages
- Condition monitoring of relevant process data

Intelligent mix of sizes



- Optimum flow rate with up to 18% smaller size
- Excellent energy efficiency
- Cost-optimised combinations save up to 30%!

| Size unierences | | | | | | |
|--|---------|----------|------------------|------|-----------------------------------|------------------------|
| Size | | MS2 | MS4 | MS6 | MS9 | MS12 |
| Grid dimension | [mm] | 25 | 40 | 62 | 90 | 124 |
| Connection sizes | | M5, QS-6 | G1/8, G1/4, G3/8 | | G1/2, G3/4, G1, G1 1/4, G1 1/2 | G1, G1 1/4, G1 1/2, G2 |
| Standard nominal flow rate qnN ¹⁾ | [l/min] | 350 | 1800 | 6500 | 20000 | 22000 |

1) Using pressure regulator MS-LR as an example

Maximum machine availability

through controlled processes

Integrated or stand-alone

for systems

Size differences

Reliable air preparation and supply

Easy to connect with M8/M12 plug

Safety functions Pressure and flow sensors Soft-start/quick exhaust valves MS6-SV/MS9-SV



- · Fast and reliable exhausting of systems up to Performance Level e, certified to EN ISO 13849-1
- Integrated soft-start function



→ Internet: www.festo.com/catalogue/...

Note Information

| The next few pages provide a brief overview of the complete product range for the MS series service unit components. | You can find detailed information and all of the technical data in the docu- mentation for the corresponding service unit component. | Accessories such as connecting plates or mounting brackets can be ordered either via the configurator or separately. | |
|---|---|---|--------------------------|
| Structure of a service unit | | | |
| The order of the individual compo | The configurator for the convice unit | Pogulators MS ED / I D / I DD / I DE are | • A micro filtor MS I EM |

The order of the individual components within a service unit is relevant for safety and functionality. It is not possible to assemble the service unit components in any order in the flow direction. There are restrictions and rules. The configurator for the service unit MSB is a reliable and convenient way of arranging individual service unit components and it ensures that the applicable rules are complied with. As a result, you get a completely assembled unit with UL or ATEX certification if you need it.

When arranging a combination of individually configured and ordered service unit components, the points on the right must be adhered to under all circumstances.

- Regulators MS-LFR/LR/LRP/LRE are only permissible in the flow direction with the same or decreasing pressure regulation range
- Filters MS-LFR/LF/LFM/LFX are only permissible in the flow direction with an increasing grade of filtration
- Lubricators MS-LOE are not permitted in the flow direction upstream of a filter MS-LFR/LFM/LF/LFX, water separator MS-LWS or membrane air dryer MS-LDM1
- A micro filter MS-LFM must be installed in the flow direction upstream of an activated carbon filter MS-LFX or membrane air dryer MS-LDM1
- A flow sensor SFAM cannot be installed directly downstream of a regulator MS-LFR/LR; a branching module MS-FRM must be positioned between them
- A soft-start/quick exhaust valve MS-SV must be the last service unit component in the flow direction

I

Total product range for MS series service unit components

| Туре | Description | Size | | | | | | | |
|-------------------|--|------|-----------|-------------|---------------|-------|-----------------------------|---|--|
| | | | Push-in | Female thre | ad | | Connecting plate with three | ad | |
| | | | connector | М | G | NPT | G | NPT | |
| Combinations | | | | | | | | | |
| Service units MSB | -FRC | | | | | | | Data sheets \rightarrow Internet: msb | |
| | Combinations of filter | 4 | - | - | 1/8, 1/4 | - | - | - | |
| | regulator and lubricator | 6 | - | - | 1/4, 3/8, 1/2 | - | - | - | |
| Ŵ | | | | | | | | | |
| Service units MSB | | | | | | | | Data sheets → Internet: msb | |
| | 7 combinations, predefined | 4 | - | - | 1/4 | - | - | - | |
| | | 6 | - | - | 1/2 | - | - | - | |
| | | | | | | | | | |
| in tak | Freely configurable | 4 | - | - | 1/8,1/4 | - | 1/8, 1/4, 3/8 | 1/8, 1/4, 3/8 | |
| | combinations | 6 | - | - | 1/4, 3/8, 1/2 | - | 1/4, 3/8, 1/2, 3/4 | 1/4, 3/8, 1/2, 3/4 | |
| 1.1 | | 9 | - | - | 3/4,1 | 3/4,1 | 1/2, 3/4, 1, 1 1/4, 1 1/2 | 1/2, 3/4, 1, 1 1/4, 1 1/2 | |
| T W | | | | | | | | | |
| Service units MSE | 6 | | | | | | | Data sheets → Internet: mse6 | |
| a al. | Combinations with fieldbus | 6 | - | - | - | - | 1/2 | - | |
| 51 | connection for measuring pressure, flow rate and consumption | | | | | | | | |

| уре | Description | Size | Pneumatic | connection | | | | |
|-----------------|-------------------------------|------|-----------|------------|------------------------|-------|--------------------------------------|--|
| | | | Push-in | Female th | read | | Connecting plate with three | ad |
| | | | connector | М | G | NPT | G | NPT |
| ndividual com | ponents | | | | | | | |
| ilter regulator | s MS-LFR | | | | | | | Data sheets \rightarrow Internet: ms |
| | Filter and pressure | 2 | QS-6 | M5 | - | - | - | - |
| - Al- | regulator in a single device, | 4 | - | - | 1/8,1/4 | - | 1/8, 1/4, 3/8 | 1/8, 1/4, 3/8 |
| | filtration grade 5 or 40 µm | 6 | - | - | 1/4, 3/8, 1/2 | - | 1/4, 3/8, 1/2, 3/4 | 1/4, 3/8, 1/2, 3/4 |
| | | 9 | - | - | 3/4,1 | 3/4,1 | 1/2, 3/4, 1, 1 1/4, 1 1/2 | 1/2, 3/4, 1, 1 1/4, 1 1/2 |
| -Ψ- | | 12 | - | - | - | - | 1, 1 1/4, 1 1/2, 2 | - |
| ilter MS-LF | | | | | | | | Data sheets → Internet: ms |
| - | Grade of filtration 5 or | 4 | - | - | 1/8, 1/4 | - | 1/8, 1/4, 3/8 | 1/8, 1/4, 3/8 |
| - | 40 μm | 6 | - | - | 1/4, 3/8, 1/2 | - | 1/4, 3/8, 1/2, 3/4 | 1/4, 3/8, 1/2, 3/4 |
| ~ | | 9 | - | - | 3/4, 1 | 3/4,1 | 1/2, 3/4, 1, 1 1/4, 1 1/2 | 1/2, 3/4, 1, 1 1/4, 1 1/2 |
| | | 12 | - | - | - | - | 1, 1 1/4, 1 1/2, 2 | - |
| ino and micro | filters MS-LFM | | | | | | | Data sheets → Internet: ms- |
| ine and inicio | Grade of filtration 0.01 or | 4 | _ | 1 | 1/0 1/4 | 1 | | |
| - | | | | - | 1/8, 1/4 | - | 1/8, 1/4, 3/8 | 1/8, 1/4, 3/8 |
| ÷ | 1 µm | 6 | - | | 1/4, 3/8, 1/2 | - | 1/4, 3/8, 1/2, 3/4 | 1/4, 3/8, 1/2, 3/4 |
| 1 | | 9 | - | - | 3/4, 1 | 3/4,1 | 1/2, 3/4, 1, 1 1/4, 1 1/2 | 1/2, 3/4, 1, 1 1/4, 1 1/2 |
| | | 12 | - | - | - | - | 1, 1 1/4, 1 1/2, 2 | - |
| ctivated carbo | on filters MS-LFX | | | | | | | Data sheets → Internet: ms- |
| | For removing liquid and | 4 | - | - | 1/8, 1/4 | - | 1/8, 1/4, 3/8 | 1/8, 1/4, 3/8 |
| - | gaseous oil particles | 6 | - | - | 1/4, 3/8, 1/2 | - | 1/4, 3/8, 1/2, 3/4 | 1/4, 3/8, 1/2, 3/4 |
| - | | 9 | _ | - | 3/4, 1 | 3/4,1 | 1/2, 3/4, 1, 1 1/4, 1 1/2 | 1/2, 3/4, 1, 1 1/4, 1 1/2 |
| | | 12 | - | - | - | - | 1, 1 1/4, 1 1/2, 2 | - |
| | | | | | I | 1 | -,, -, -, -, -, -, -, -, -, -, -, -, | |
| /ater separato | rs MS-LWS | | | | | | | Data sheets → Internet: ms-l |
| | Remove condensate from | 6 | - | - | 1/4, 3/8, 1/2 | - | 1/4, 3/8, 1/2, 3/4 | 1/4, 3/8, 1/2, 3/4 |
| Barry 1 | | 9 | - | - | 3/4, 1 | 3/4,1 | 1/2, 3/4, 1, 1 1/4, 1 1/2 | 1/2, 3/4, 1, 1 1/4, 1 1/2 |
| | compressed air, | 9 | 1- | | <i>J</i> / ,, - | | | |

| Total product rai | nge for MS series service unit co Description | Size | Pneumatic | connection | | | | |
|---|--|------|-----------------------|------------|---------------|--------|----------------------------|--|
| Type | Description | 5120 | Push-in Female thread | | | | Connecting plate with thre | ad |
| | | | connector | M | G | NPT | G | NPT |
| Individual comp | onents | | | | | | | |
| Pressure regulat | | | | | | | | Data sheets → Internet: ms-lr |
| | For setting the required | 2 | QS-6 | M5 | - | - | - | - |
| | operating pressure, | 4 | - | - | 1/8, 1/4 | - | 1/8, 1/4, 3/8 | 1/8, 1/4, 3/8 |
| | 4 pressure regulation | 6 | - | - | 1/4, 3/8, 1/2 | - | 1/4, 3/8, 1/2, 3/4 | 1/4, 3/8, 1/2, 3/4 |
| 2 | ranges | 9 | - | - | 3/4,1 | 3/4,1 | 1/2, 3/4, 1, 1 1/4, 1 1/2 | 1/2, 3/4, 1, 1 1/4, 1 1/2 |
| | | 12 | - | - | - | - | 1, 1 1/4, 1 1/2, 2 | - |
| Pressure regulat | tors MS-LRB | | | | | | | Data sheets → Internet: ms-lrb |
| | For configuring a regulator | 4 | - | 1- | 1/4 | 1- | 1/8, 1/4, 3/8 | - |
| 1.0 | manifold with independent | | - | - | 1/2 | - | 1/4, 3/8, 1/2, 3/4 | - |
| 1000 | pressure regulation ranges. | - | | 1 | -/- | 1 | -1 ., 21 - 1 - 1 21 . | |
| | Pressure output is to the | | | | | | | |
| | front or rear. | | | | | | | |
| Procision proces | regulators MS-LRP | | | | | | | |
| | For precisely setting of the | 6 | 1 | 1 | 1/4, 3/8, 1/2 | - | 1/4, 3/8, 1/2, 3/4 | Data sheets \rightarrow Internet: ms-Irp 1/4, 3/8, 1/2, 3/4 |
| ÷ 1 | required operating | 0 | - | - | 1/4, 5/0, 1/2 | - | 1/4, 5/0, 1/2, 5/4 | 1/4, 3/0, 1/2, 3/4 |
| | pressure, | | | | | | | |
| | 4 pressure regulation | | | | | | | |
| | ranges, | | | | | | | |
| | pressure hysteresis | | | | | | | |
| | 0.02 bar | | | | | | | |
| Precision pressu | ire regulators MS-LRPB | | | | | | | Data sheets → Internet: ms-lrpb |
| | For configuring a regulator | 6 | - | - | 1/2 | - | 1/4, 3/8, 1/2, 3/4 | - |
| ÷. | manifold with independent | - | | 1 | -/- | 1 | -1 ., 21 - 1 - 1 21 . | |
| | pressure regulation ranges. | | | | | | | |
| and the second se | Pressure output is to the | | | | | | | |
| | front or rear. | | | | | | | |
| Flectric pressure | e regulators MS-LRE | | | | | | | Data sheets → Internet: ms-Ire |
| | Electrically adjustable | 6 | - | 1- | 1/4, 3/8, 1/2 | - | 1/4, 3/8, 1/2, 3/4 | 1/4, 3/8, 1/2, 3/4 |
| | pressure regulator, | | | | 1 | | 1.7-1-7 1.7-1 | 1.7-1-7 1.7-1 |
| 10.0 | 4 pressure regulation | | | | | | | |
| 1000 | ranges | | | | | | | |
| 1000 | | | | | | | | |
| Lubricators MS- | IOF | | | | | | | Data sheets \rightarrow Internet: ms-loe |
| | Add a precisely adjustable | 4 | - | - | 1/8, 1/4 | - | 1/8, 1/4, 3/8 | 1/8, 1/4, 3/8 |
| 100 | amount of oil to the com- | 6 | - | - | 1/4, 3/8, 1/2 | - | 1/4, 3/8, 1/2, 3/4 | 1/4, 3/8, 1/2, 3/4 |
| | pressed air. The amount of | 9 | - | - | 3/4, 1 | 3/4, 1 | 1/2, 3/4, 1, 1 1/4, 1 1/2 | 1/2, 3/4, 1, 1 1/4, 1 1/2 |
| | oil mist is proportional to | 12 | - | - | - | - | 1, 1 1/4, 1 1/2, 2 | - |
| 3 | the compressed air flow | | | | I | 1 | | 1 |
| | | | | | | | | |

Service unit components, MS series

Key features

Total product range for MS series service unit components Description Size Pneumatic connection Туре Push-in Female thread Connecting plate with thread connector NPT Μ G G NPT Individual components On/off valves MS-EM Data sheets → Internet: ms-em 1/8,1/4 1/8, 1/4, 3/8 Manually operated on/off 1/8, 1/4, 3/8 4 valve for pressurising and 6 1/4, 3/8, 1/2 1/4, 3/8, 1/2, 3/4 1/4, 3/8, 1/2, 3/4 _ _ exhausting pneumatic 9 3/4,1 3/4,1 1/2, 3/4, 1, 1 1/4, 1 1/2 1/2, 3/4, 1, 1 1/4, 1 1/2 _ _ installations. 12 _ 1, 1 1/4, 1 1/2, 2 _ _ _ On/off valves MS-EE Data sheets \rightarrow Internet: ms-ee Solenoid actuated on/off 1/8,1/4 1/8, 1/4, 3/8 1/8, 1/4, 3/8 4 1/4, 3/8, 1/2 valve for pressurising and 1/4, 3/8, 1/2, 3/4 6 1/4, 3/8, 1/2, 3/4 exhausting pneumatic 9 3/4,1 3/4,1 1/2, 3/4, 1, 1 1/4, 1 1/2 1/2, 3/4, 1, 1 1/4, 1 1/2 installations. 12 1, 1 1/4, 1 1/2, 2 Soft-start valves MS-DL Data sheets → Internet: ms-dl Pneumatically actuated 1/8,1/4 1/8, 1/4, 3/8 1/8, 1/4, 3/8 4 soft-start valve for slowly 6 1/4, 3/8, 1/2 1/4, 3/8, 1/2, 3/4 1/4, 3/8, 1/2, 3/4 _ _ _ pressurising and exhaust-12 1, 1 1/4, 1 1/2, 2 _ _ ing pneumatic installations. Soft-start valves MS-DE Data sheets → Internet: ms-de Solenoid actuated soft-start 4 1/8,1/4 1/8, 1/4, 3/8 1/8, 1/4, 3/8 1/4, 3/8, 1/2, 3/4 valve for slowly pressuris-1/4, 3/8, 1/2, 3/4 6 1/4, 3/8, 1/2 ing and exhausting 12 1, 1 1/4, 1 1/2, 2 pneumatic installations. Soft-start/quick exhaust valves MS-SV Data sheets → Internet: ms-sv 1/4, 3/8, 1/2, 3/4 1/4, 3/8, 1/2, 3/4 For building up pressure 6 1/2 gradually and reducing 1/2, 3/4, 1, 1 1/4, 1 1/2 9 3/4,1 3/4,1 1/2, 3/4, 1, 1 1/4, 1 1/2 pressure quickly and safely in pneumatic piping systems. Up to category 1, PL c. 1/2 1/4, 3/8, 1/2, 3/4 1/4, 3/8, 1/2, 3/4 Up to category 3, PL d. 6 Up to category 4, PL e in the case of optional extension. Up to category 4, PL e. 1/2 1/4, 3/8, 1/2, 3/4 6

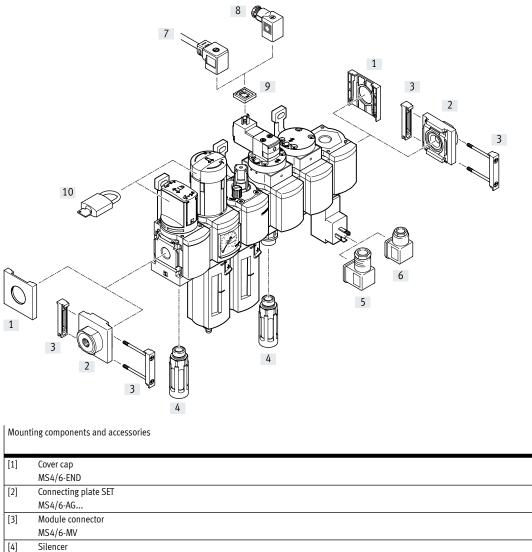
| Total product range | e for MS series service unit co | mponen | ts | | | | | |
|---------------------|---|--------|-------------|---------------|---------------|--------|-----------------------------|--|
| Туре | Description | Size | Pneumatic o | onnection | | | | |
| | | | Push-in | Female thread | | | Connecting plate with threa | ad |
| | | | connector | М | G | NPT | G | NPT |
| Individual compon | ents | | | | | | | |
| Membrane air drye | er MS-LDM1 | | | | | | I | Data sheets \rightarrow Internet: ms-ldm |
| 201 | Wear-free membrane dryer | 4 | - | - | 1/8,1/4 | - | 1/8, 1/4, 3/8 | 1/8, 1/4, 3/8 |
| 1 | with internal air | 6 | - | - | 1/4, 3/8, 1/2 | - | 1/4, 3/8, 1/2, 3/4 | 1/4, 3/8, 1/2, 3/4 |
| | consumption | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Branching module | c MS EDM | | | | | | | Data sheets → Internet: ms-frm |
| Dialicining mouule | | | 1 | 1 | 1/0 1/4 | 1 | | |
| | Compressed air distributors with 4 connections | | - | - | 1/8, 1/4 | - | 1/8, 1/4, 3/8 | - |
| 9 | with 4 connections | 6 | - | - | 1/4, 3/8, 1/2 | - | 1/4, 3/8, 1/2, 3/4 | |
| 1 | | 9 | - | - | 3/4, 1 | 3/4, 1 | 1/2, 3/4, 1, 1 1/4, 1 1/2 | 1/2, 3/4, 1, 1 1/4, 1 1/2 |
| | | 12 | - | - | - | - | 1, 1 1/4, 1 1/2, 2 | - |
| | | | | | | _ | | |
| Distributor blocks | MS-FRM-FRZ | | | | | | Dat | a sheets → Internet: ms-frm-frz |
| | Compressed air distributors | 4 | - | - | - | - | - | - |
| (A)1 | with 4 connections and half | 6 | - | - | - | - | - | - |
| 9 | the grid width | | | | | | • | |
| | | | | | | | | |
| | | | | | | | | |
| Flow sensors SFAN | 1 | | | | | | | Data sheets → Internet: sfam |
| TION SCHOOLS STAN | For absolute flow rate infor- | 6 | - | - | _ | - | 1/2 | 1/2 |
| | mation and accumulated | 9 | - | _ | _ | - | 1,11/2 | 1,11/2 |
| 0 1 | air consumption | , | | | | | 1,11/2 | 1,11/2 |
| and the | measurement | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Product range overview

| Combinations | | Combination 1 | Combination 2 | Combination 3 |
|--|-----|---------------|---------------|---------------|
| Comprising: | | | | |
| Manually operated on/off valve | EM1 | • | • | _ |
| Filter regulator with pressure | LFR | - | - | - |
| gauge, lockable | | - | _ | _ |
| Lubricator | LOE | • | - | - |
| Solenoid actuated on/off valve | EE | - | _ | |
| Solenoid actuated on/off valve, with pressure sensor | EE | - | - | - |
| Pneumatically actuated soft-start valve | DL | _ | _ | • |
| Branching module with pressure switch | FRM | • | - | - |
| Branching module with pressure sensor | FRM | - | - | - |
| Mounting bracket | WP | • | | • |
| Data sheet \rightarrow page | | 10 | 13 | 17 |

| Combinations | | Combination 4 | | Combination 5 | Combination 6 | Combination 7 |
|--|-----|---------------|----|---------------|---------------|---------------|
| Comprising: | | | | | | |
| Manually operated on/off valve | EM1 | | | | | |
| Filter regulator with pressure gauge, lockable | LFR | | | | | |
| Lubricator | LOE | - | - | - | | - |
| Solenoid actuated on/off valve | EE | - | - | • | - | _ |
| Solenoid actuated on/off valve, with pressure sensor | EE | - | - | - | - | |
| Pneumatically actuated soft-start valve | DL | - | - | | - | - |
| Branching module with pressure switch | FRM | • | - | • | - | - |
| Branching module with pressure sensor | FRM | - | | - | - | - |
| Mounting bracket | WP | | | | | |
| Data sheet → page | | 20 | 20 | 25 | 28 | 31 |

Peripherals overview



🖡 - Note

The range of accessories depends on the service unit selected.

→ Page/

Range of accessories

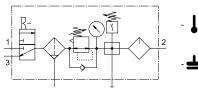
→ Peripherals pages of the individual components

| | | Internet |
|------|------------------------|----------|
| [1] | Cover cap | ms4-end, |
| | MS4/6-END | ms6-end |
| [2] | Connecting plate SET | ms4-ag, |
| | MS4/6-AG | ms6-ag |
| [3] | Module connector | ms4-mv, |
| | MS4/6-MV | ms6-mv |
| [4] | Silencer | 35 |
| | U | |
| [5] | Angled plug socket | 35 |
| | PEV-1/4-WD-LED | |
| [6] | Plug socket | 35 |
| | MSSD-C-4P | |
| [7] | Plug socket with cable | 35 |
| | KMEB | |
| [8] | Plug socket | 35 |
| | MSSD-EB | |
| [9] | Illuminating seal | 35 |
| | MEB-LD | |
| [10] | Padlock | 35 |
| | LRVS-D | |
| - | Mounting bracket | ms4-wp, |
| | MS4/6-WP/WPB/WPE/WPM | ms6-wp |

Data sheet - Combination 1

Function

With manual rotary condensate drain



- On/off valve MS...-EM1, manually operated
- Filter regulator MS...-LFR-D7 with pressure gauge
- Branching module MS...-FRM-Y with pressure switch without display
- Lubricator MS...-LOE-R
- Mounting bracket MS...-WP

Flow rate 950 l/min

- 11

Temperature range

–10 ... +60°C

Pressure regulation range 1 ... 12 bar

Spare parts service



- For filtered and lubricated compressed air
- Supply pressure can be switched on • or off
- Output pressure is infinitely adjustable within the pressure regulation range
- The unit is vented when switched off
- Electrical pressure monitoring with adjustable switching pressure
- Removal of filtered and unlubricated compressed air at the branching module ports

General technical data

| General technical data | | |
|---------------------------------|-------|--|
| Size | | MSB4 |
| Pneumatic connection 1, 2, 3 | | G1/4 |
| Regulator function | | Output pressure constant, with primary pressure compensation, with return flow, with secondary venting |
| Type of mounting | | With accessories |
| Mounting position | | Vertical ±5° |
| Grade of filtration | [µm] | 40 |
| Air quality class at the output | | Compressed air to ISO 8573-1:2010 [7:4:-] |
| Bowl guard | | Plastic bowl guard |
| Condensate drain | | Manual rotary |
| Actuator lock | | Rotary knob with detent, can be locked using accessories |
| Pressure regulation range | [bar] | 112 |
| Pressure indication | | Via pressure gauge |

Note: This product conforms to ISO 1179-1 and ISO 228-1.

| Standard nominal flow rate qnN [l/min] | | | | | |
|--|-------|------|--|--|--|
| Size | | MSB4 | | | |
| Grade of filtration | 40 µm | 950 | | | |

Operating and environmental conditions

| Operating and environmental con | Iditions | |
|--|----------|--|
| Condensate drain | | Manual rotary |
| Size | | MSB4 |
| Operating pressure | [bar] | 1.5 14 |
| Operating medium | | Compressed air to ISO 8573-1:2010 [7:4:4] |
| | | Inert gases |
| Note on the operating/pilot mediu | m | Lubricated operation possible (in which case lubricated operation will always be required) |
| Ambient temperature | [°C] | -10+60 |
| Temperature of medium | [°C] | -10+60 |
| Storage temperature | [°C] | -10+60 |
| Corrosion resistance class CRC ¹⁾ | | 2 |
| Food-safe ²⁾ | | See supplementary information on materials |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

2) Additional information is available at www.festo.com/sp \rightarrow Certificates.

Weight [g]

| Size | MSB4 | | | | | |
|------------------|------|--|--|--|--|--|
| Service unit | 1700 | | | | | |
| Mounting bracket | 40 | | | | | |

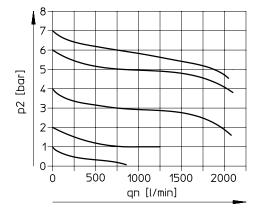
- 🕴 - Note

Materials \rightarrow Data sheet for the individual components

Standard flow rate qn as a function of output pressure p2

Pressure regulation range 1 ... 12 bar MSB4-1/4

Primary pressure p1 = 10 bar

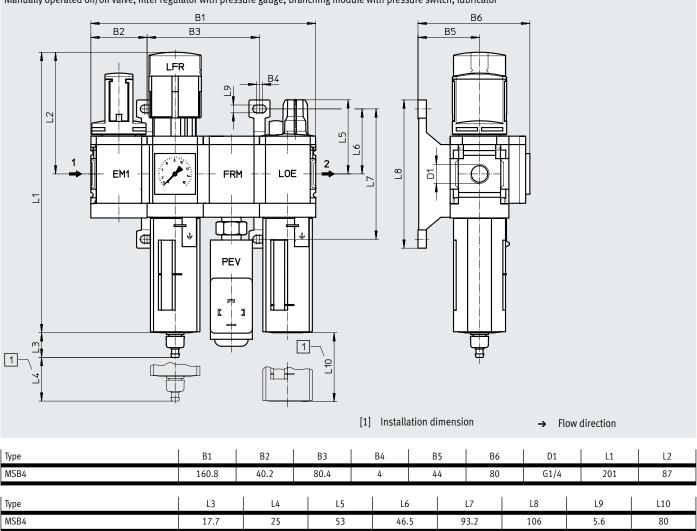


Degree of filtration 40 μm

Dimensions

Manually operated on/off valve, filter regulator with pressure gauge, branching module with pressure switch, lubricator

Download CAD data → <u>www.festo.com</u>

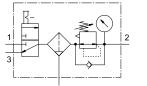


· ♦ · Note: This product conforms to ISO 1179-1 and ISO 228-1.

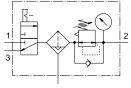
| Ordering data | | | | | | |
|---|------------|------------------|---------------------------|----------|----------------------|--|
| Size | Connection | Condensate drain | Degree of filtration [µm] | Part no. | Туре | |
| Pressure regulation range 1 12 bar, pressure gauge with outer scale in bar and inner scale in psi | | | | | | |
| MSB4 | G1/4 | Manual rotary | 40 | 542295 | MSB4-1/4:C3J1F3M1-WP | |

Function

With manual rotary condensate drain



Fully automatic condensate drain



M Flow rate

950 ... 5500 l/min

Temperature range -10 ... +60°C

Pressure regulation range 0.5 ... 12 bar

Spare parts service

- For filtered and unlubricated compressed air
- Supply pressure can be switched on or off
- Output pressure is infinitely adjustable within the pressure regulation range

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- On/off valve MS...-EM1, manually operated
- Filter regulator MS...-LFR with pressure gauge
- Mounting bracket MS...-WP

General technical data

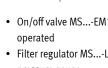
| General lecinical uala | | | | | |
|---------------------------------|-------|---|---|--|--|
| Size | | MSB4 | MSB6 | | |
| Pneumatic connection 1, 2, 3 | | G1/4 | G1/2 | | |
| Regulator function | | Output pressure constant, with primary pressure compensation, w | ith return flow, with secondary venting | | |
| Type of mounting | | With accessories | | | |
| Mounting position | | Vertical ±5° | | | |
| Grade of filtration | [µm] | 5 | | | |
| | | 40 | | | |
| Air quality class at the output | | Compressed air to ISO 8573-1:2010 [6:4:4] (grade of filtration 5 μm) | | | |
| | | Compressed air to ISO 8573-1:2010 [7:4:4] (grade of filtration 40 µm) | | | |
| Bowl guard | | Plastic bowl guard | | | |
| Condensate drain | | Manual rotary | | | |
| | | Fully automatic | | | |
| Actuator lock | | Rotary knob with detent, can be locked using accessories | | | |
| Pressure regulation range | [bar] | 0.5 7 | | | |
| | | 0.5 12 | | | |
| Pressure indication | | Via pressure gauge | | | |

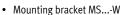
• Note: This product conforms to ISO 1179-1 and ISO 228-1.

Standard nominal flow rate gnN [l/min]

| Condensate drain | | Manual rotary | | Fully automatic | | |
|--------------------------------------|-------------------------------------|---------------|------|-----------------|------|--|
| Size | | MSB4 | MSB6 | MSB4 | MSB6 | |
| Pressure regulation range 0.5 7 | Pressure regulation range 0.5 7 bar | | | | | |
| Grade of filtration | 40 µm | 1150 | 5500 | - | - | |
| Pressure regulation range 0.5 12 bar | | | | | | |
| Grade of filtration | 5 µm | 950 | 4800 | 950 | 4800 | |
| | 40 µm | 1700 | 5100 | 1000 | 5100 | |

. | . 125 l/min must be available for the fully automatic condensate drain to close correctly.





Operating and environmental conditions

| Condensate drain | ndensate drain | | | Fully automatic | | | |
|--------------------------------|----------------|-----------------------|--|-----------------|---------|--|--|
| Size | | MSB4 | MSB6 | MSB4 | MSB6 | | |
| Operating pressure | [bar] | 0.8 14 | 0.8 18 | 2 12 | 2 12 | | |
| Operating medium | | Compressed air to ISC | Compressed air to ISO 8573-1:2010 [7:4:4] | | | | |
| | | Inert gases | Inert gases | | | | |
| Note on the operating/pilot m | edium | Lubricated operation | Lubricated operation possible (in which case lubricated operation will always be required) | | | | |
| Ambient temperature | [°C] | -10 +60 | | +5 +60 | +5 +60 | | |
| Temperature of medium | [°C] | -10 +60 | | +5 +60 | +5 +60 | | |
| Storage temperature | [°C] | -10 +60 | | -10 +60 | -10 +60 | | |
| Corrosion resistance class CRO | 1) | 2 | | | | | |
| Food-safe ²⁾ | | See supplementary in | formation on materials | | | | |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

2) Additional information is available at www.festo.com/sp \rightarrow Certificates.

Weight [g]

| Size | MSB4 | MSB6 | | | | |
|------------------|------|------|--|--|--|--|
| Service unit | 1300 | 1100 | | | | |
| Mounting bracket | 40 | 76 | | | | |

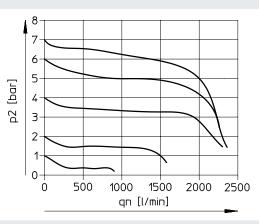
- 🖡 - Note

Materials \rightarrow Data sheet for the individual components

Standard flow rate qn as a function of output pressure p2

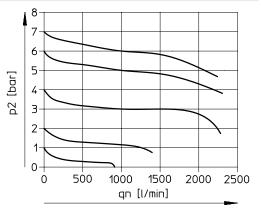
Pressure regulation range 0.5 ... 12 bar MSB4-1/4

Primary pressure p1 = 10 bar



Degree of filtration 5 μ m



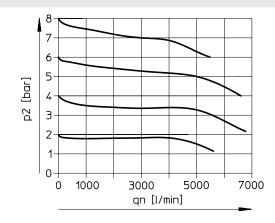


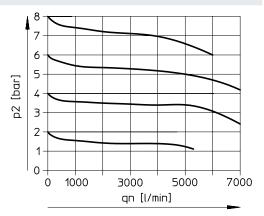
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MSB6-1/2

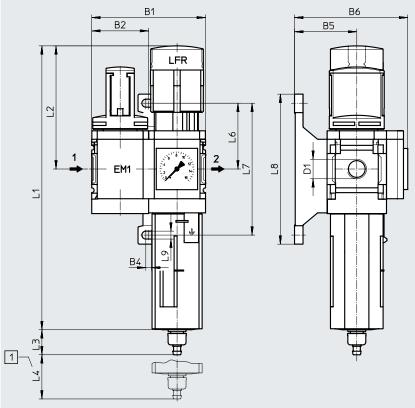
Primary pressure p1 = 10 bar





Dimensions

Manually operated on/off valve, filter regulator with pressure gauge



Download CAD data → <u>www.festo.com</u>

[1] Installation dimension

→ Flow direction

| Туре | B1 | B2 | B4 | B5 | B6 | D1 | L1 | L2 |
|------|-------------|-----------------------|-----------|----|------|------|-----|-------|
| | | | | | | | | |
| MSB4 | 80.4 | 40.2 | 4 | 44 | 80 | G1/4 | 201 | 87 |
| MSB6 | 124 | 62 | 4.5 | 54 | 100 | G1/2 | 285 | 134.5 |
| Туре | Co | L3 ondensate drain | | L4 | L6 | L7 | L8 | L9 |
| | Manual rota | ry Fully | automatic | | | | | |
| MSB4 | 17.7 | | 20.4 | 25 | 46.5 | 93.2 | 106 | 5.6 |
| MSB6 | 15.8 | | 18.5 | 68 | 71 | 142 | 158 | 6.6 |

• I Note: This product conforms to ISO 1179-1 and ISO 228-1.

★ Core product range

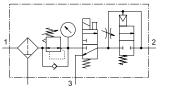
| Ordering data | | | | | |
|---------------|---------------------------|--------------------------------------|------------------------------|-----------|---------------------|
| Size | Connection | Condensate drain | Degree of filtration [µm] | Part no. | Туре |
| Pressure regu | lation range 0.5 12 bar, | , pressure gauge with outer scale i | n bar and inner scale in psi | | |
| MSB4 | G1/4 | Manual rotary | 40 | ★ 8025354 | MSB4-1/4:C3:J1-WP |
| MSB6 | G1/2 | Manual rotary | 40 | ★ 8025355 | MSB6-1/2:C3:J1-WP |
| Ordering data | | | | | |
| Size | Connection | Condensate drain | Degree of filtration [µm] | Part no. | Туре |
| Pressure regu | lation range 0.5 7 bar, j | pressure gauge with outer scale in | MPa | | |
| MSB4 | G1/4 | Manual rotary | 40 | 8042668 | MSB4-1/4:C3:J120-WP |
| MSB6 | G1/2 | Manual rotary | 40 | 8042672 | MSB6-1/2:C3:J120-WP |
| Pressure regu | lation range 0.5 12 bar, | , pressure gauge with outer scale in | n bar and inner scale in psi | | |
| MSB4 | G1/4 | Manual rotary | 5 | 542304 | MSB4-1/4:C3J3-WP |
| | | Fully automatic | 40 | 542298 | MSB4-1/4:C3J2-WP |
| | | | 5 | 542310 | MSB4-1/4:C3J4-WP |
| MSB6 | G1/2 | Manual rotary | 5 | 542280 | MSB6-1/2:C3J3-WP |
| | | Fully automatic | 40 | 542274 | MSB6-1/2:C3J2-WP |
| | | | 5 | 542286 | MSB6-1/2:C3J4-WP |

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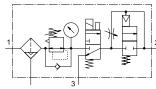
Data sheet – Combination 3

Function

With manual rotary condensate drain



Fully automatic condensate drain



- Filter regulator MS...-LFR-D7 with pressure gauge
- On/off valve MS...-EE-V24, solenoid actuated
- Soft-start valve MS...-DL, pneumatically actuated
- Mounting bracket MS...-WP

General technical data

- Flow rate

- 1

750 ... 3100 l/min

Temperature range −10 ... +60°C

Pressure regulation range 4 ... 12 bar

- Spare parts service



- For filtered and unlubricated compressed air
- Output pressure is infinitely adjustable within the pressure regulation range
- Gradual pressure build-up prevents sudden, unpredictable movements
- When the unit is switched off, quick venting ensures rapid pressure reduction

| Size | | MSB4 | MSB6 | |
|---------------------------------|--------------------|---|-------------------------------------|--|
| Pneumatic connection 1, 2, 3 | | G1/4 G1/2 | | |
| Regulator function | | Output pressure constant, with primary pressure compensation, with | return flow, with secondary venting | |
| Type of mounting | | With accessories | | |
| Mounting position | | Vertical ±5° | | |
| Grade of filtration | [µm] | 40 | | |
| Air quality class at the output | | Compressed air to ISO 8573-1:2010 [7:4:4] (grade of filtration 40 µm) | | |
| Bowl guard | | Plastic bowl guard | | |
| Condensate drain | | Manual rotary | | |
| | | - | Fully automatic | |
| Actuator lock | | Rotary knob with detent, can be locked using accessories | | |
| Pressure regulation range | [bar] | 412 | | |
| Pressure indication | Via pressure gauge | | | |
| Characteristic coil data | | 24 V DC: 1.5 W | 24 V DC: 1.5 W | |

↓ Note: This product conforms to ISO 1179-1 and ISO 228-1.

Standard nominal flow rate qnN [l/min]

| Size MSB4 MSB6 Grade of filtration 40 μm 750 3100 | | | | | | |
|---|---------------------------|------|------|--|--|--|
| Grade of filtration 40 μm 750 3100 | Size | MSB4 | MSB6 | | | |
| | Grade of filtration 40 µm | 750 | 3100 | | | |

 \cdot \parallel - 125 l/min must be available for the fully automatic condensate drain to close correctly.

Operating and environmental conditions

| Condensate drain | | Manual rotary | | | Fully automatic |
|--------------------------------|-------|----------------------------------|-------------------|--------------------------------------|---|
| Size | | MSB4 | M | SB6 | MSB6 |
| Operating pressure | [bar] | 4.5 14 | 4. | 5 18 | 4.5 12 |
| Operating medium | | Compressed air to ISO 8573-1:2 | 010 [-:4:-] | | Compressed air to ISO 8573-1:2010 [7:4:-] |
| | | Inert gases | | | |
| Note on the operating/pilot me | edium | Lubricated operation possible (i | n which case lubr | ricated operation will always be red | juired) |
| Ambient temperature | [°C] | -10 +60 | | | +5 +60 |
| Temperature of medium | [°C] | -10 +60 | | | +5 +60 |
| Storage temperature | [°C] | -10 +60 | | | -10 +60 |
| Corrosion resistance class CRC | 1) | 2 | | | |
| Food-safe ²⁾ | | See supplementary information | on materials | | |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Weight [g]

| Size | MSB4 | MSB6 |
|------------------|------|------|
| Service unit | 1600 | 2400 |
| Mounting bracket | 40 | 76 |

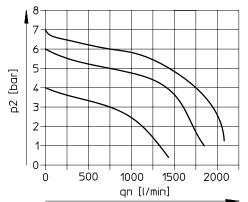
- 🗍 - Note

Materials \rightarrow Data sheet for the individual components

Standard flow rate qn as a function of output pressure p2

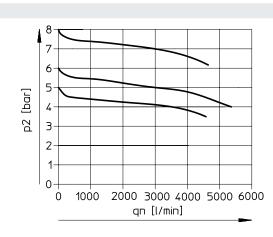
Pressure regulation range 4 ... 12 bar $$\ensuremath{\mathsf{Degree}}\xspace$ Degree of filtration 40 μm MSB4-1/4

Primary pressure p1 = 10 bar



MSB6-1/2

Primary pressure p1 = 10 bar



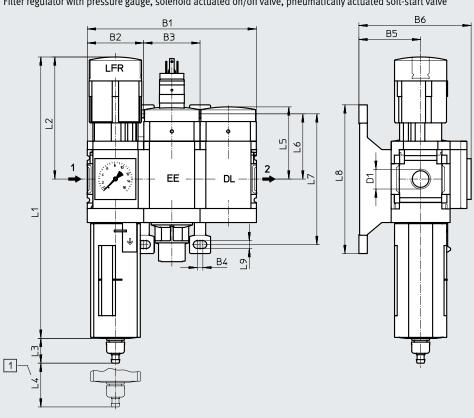
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Dimensions

Filter regulator with pressure gauge, solenoid actuated on/off valve, pneumatically actuated soft-start valve

Download CAD data → <u>www.festo.com</u>



[1] Installation dimension →

Flow direction

| Туре | B1 | B2 | B3 | B4 | B5 | B6 | D1 | L1 | L2 |
|------|------------------------|------|-----------------|-----|------|------|------|-----|-------|
| | | | | | | | | | |
| MSB4 | 120.6 | 40.2 | 40.2 | 4 | 44 | 80 | G1/4 | 201 | 87 |
| MSB6 | 186 | 62 | 62 | 4.5 | 54 | 100 | G1/2 | 285 | 134.5 |
| Туре | L3 Condensate drain | | L4 | L5 | L6 | L7 | L8 | L9 | |
| | Manual ro | tary | Fully automatic | | | | | | |
| MSB4 | 17.7 | | - | 25 | 51.7 | 46.5 | 93.2 | 106 | 5.6 |
| MSB6 | 15.8 | | 18.5 | 68 | 71 | 71 | 142 | 158 | 6.6 |

• I Note: This product conforms to ISO 1179-1 and ISO 228-1.

Ordering data

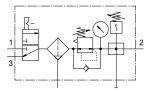
| Size | Connection | Condensate drain | Degree of filtration [µm] | Part no. | Туре |
|---------------------|------------------------|---|---------------------------|----------|--------------------|
| Pressure regulation | range 4 12 bar, pressu | re gauge with outer scale in bar and in | ner scale in psi | | |
| MSB4 | G1/4 | Manual rotary | 40 | 531101 | MSB4-1/4:J1D1A1-WP |
| MSB6 | G1/2 | Manual rotary | 40 | 530222 | MSB6-1/2:J1D1A1-WP |
| | | Fully automatic | 40 | 530224 | MSB6-1/2:J2D1A1-WP |

N

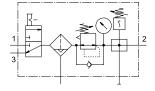
Data sheet - Combination 4

Function

With manual rotary condensate drain



Fully automatic condensate drain



- On/off valve MS...-EM1, manually operated
- Filter regulator MS...-LFR with pressure gauge

General technical data

- Branching module MS...-FRM-Y with pressure switch or MS...-FRM-AD7
 - •



- For filtered and unlubricated compressed air
- Supply pressure can be switched on or off



- Output pressure is infinitely adjustable within the pressure regulation range
- Electrical pressure monitoring with adjustable switching pressure

| Size | | MSB4 | | MSB6 | |
|---------------------------------|-------|-------------------------------------|---------------------------------------|-------------------------------------|---------------|
| Branching module with | | Pressure switch | Pressure sensor | Pressure switch Pressure sensor | |
| Pneumatic connection 1, 2, 3 | | G1/4 | | G1/2 | |
| Regulator function | | Output pressure constant, with pri | imary pressure compensation, with | return flow, with secondary venting | |
| Type of mounting | | With accessories | | | |
| Mounting position | | Vertical ±5° | | | |
| Grade of filtration | [µm] | 40 | | | |
| Air quality class at the output | | Compressed air to ISO 8573-1:202 | 10 [7:4:4] (grade of filtration 40 μm |) | |
| Bowl guard | | Plastic bowl guard | | | |
| Condensate drain | | Manual rotary | Manual rotary | Manual rotary | Manual rotary |
| | | Fully automatic | - | Fully automatic | - |
| Actuator lock | | Rotary knob with detent, can be lo | cked using accessories | | |
| Pressure regulation range | [bar] | - | 0.5 7 | - | 0.5 7 |
| | | 0.5 12 | 0.5 10 | 0.5 12 | 0.5 10 |
| Pressure indication | | Via pressure gauge for indicating t | he output pressure | | |

+ Note: This product conforms to ISO 1179-1 and ISO 228-1.

Standard nominal flow rate qnN [l/min]

| Size | MSB4 | | MSB6 | MSB6 | | |
|-----------------------------------|-----------------|-----------------|-----------------|-----------------|--|--|
| Branching module with | Pressure switch | Pressure sensor | Pressure switch | Pressure sensor | | |
| Pressure regulation range 0.5 7 b | ar | | | | | |
| Grade of filtration 4 | +0 μm – | 1750 | - | 5300 | | |
| Pressure regulation range 0.5 10 | bar | | | | | |
| Grade of filtration 4 | -0 μm – | 1600 | - | 4500 | | |
| Pressure regulation range 0.5 12 | bar | | | | | |
| Grade of filtration 4 | 0 μm 1300 | - | 4500 | - | | |

. # . 125 l/min must be available for the fully automatic condensate drain to close correctly.

with pressure sensor for status indication

Flow rate 1300 ... 5300 l/min

Pressure regulation range

Temperature range -10 ... +60°C

Spare parts service

0.5 ... 12 bar

• Mounting bracket MS...-WP

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Data sheet – Combination 4

Operating and environmental conditions

| operating and environmenta | (contaitions | | | | | | |
|--------------------------------|---------------|----------------------|---------------------------|------------------------|--------------------------|-----------------|-----------------|
| Condensate drain | | Manual rotary | | Fully automatic | | | |
| Size | | MSB4 | MSB4 MSB6 | | | MSB4 | MSB6 |
| Branching module with | | Pressure switch | Pressure sensor | Pressure switch | Pressure sensor | Pressure switch | Pressure switch |
| Operating pressure | [bar] | 0.8 14 | | 0.8 18 | | 2 12 | 2 12 |
| Operating medium | | Compressed air to I | SO 8573-1:2010 [7:4:4 |] | | | |
| | | Inert gases | | | | | |
| Note on the operating/pilot m | edium | Lubricated operation | on possible (in which cas | e lubricated operation | will always be required) | | |
| Ambient temperature | [°C] | -10 +60 | 0 +50 | -10 +60 | 0 +50 | +5 +60 | |
| Temperature of medium | [°C] | -10 +60 | 0 +50 | -10 +60 | 0 +50 | +5 +60 | |
| Storage temperature | [°C] | -10 +60 | | | × | -10 +60 | |
| Corrosion resistance class CRC | 1) | 2 | | | | | |
| Food-safe ²⁾ | | See supplementary | information on materia | ls | | | |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

2) Additional information is available at www.festo.com/sp → Certificates.

Weight [g]

| 100500 [5] | | |
|------------------|------|------|
| Size | MSB4 | MSB6 |
| Service unit | 1500 | 2000 |
| Mounting bracket | 40 | 76 |

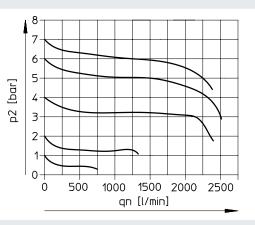
- 📲 - Note

Materials \rightarrow Data sheet for the individual components

Standard flow rate qn as a function of output pressure p2

Pressure regulation range 0.5 ... 12 bar MSB4-1/4

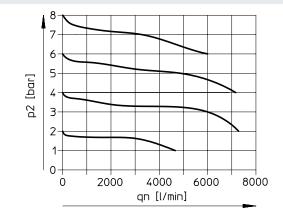
Primary pressure p1 = 10 bar



Degree of filtration 40 μm

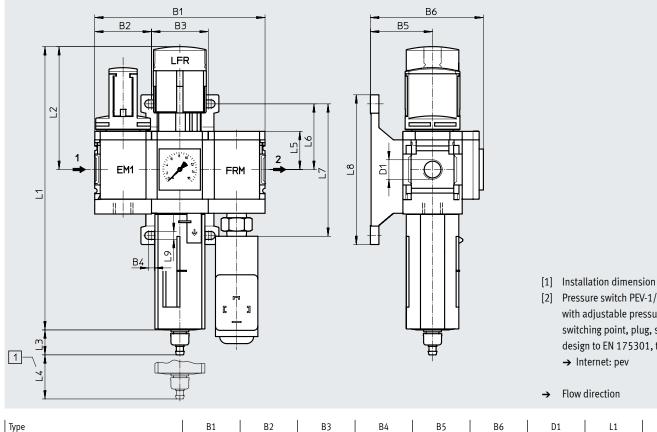
MSB6-1/2

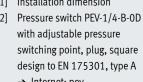
Primary pressure p1 = 10 bar



Dimensions

Manually operated on/off valve, filter regulator with pressure gauge, branching module with pressure switch





Download CAD data → <u>www.festo.com</u>

Flow direction

| Туре | B1 | B2 | B3 | B4 | B5 | B6 | D1 | L1 | L2 |
|------|-----------|---------------|----------------|-----|----|------|------|-----|-------|
| | | | | | | | | | |
| MSB4 | 120.6 | 40.2 | 40.2 | 4 | 44 | 80 | G1/4 | 201 | 87 |
| MSB6 | 186 | 62 | 62 | 4.5 | 54 | 100 | G1/2 | 285 | 134.5 |
| | | | | | | | | | |
| Туре | | L3 | | L4 | L5 | L6 | L7 | L8 | L9 |
| | | Condensate dr | ain | | | | | | |
| | Manual ro | tary F | ully 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 |

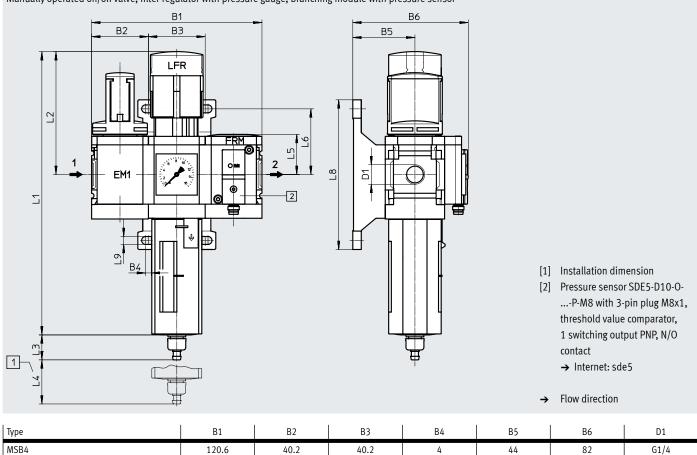
| | \cdot Note: This product conforms to ISO 1179-1 and ISO 228-1.

Download CAD data → <u>www.festo.com</u>

Data sheet – Combination 4

Dimensions

Manually operated on/off valve, filter regulator with pressure gauge, branching module with pressure sensor



| MSB6 | 186 | 62 | 62 | | 4.5 | | 54 | 102 | G1/2 |
|------|-----|-------|------|----|-----|-----|------|-----|------|
| | | | | | | | | | |
| Туре | L1 | L2 | L3 | L4 | | L5 | L6 | L8 | L9 |
| MSB4 | 201 | 87 | 17.7 | 25 | 2 | 9.4 | 46.5 | 106 | 5.6 |
| MSB6 | 285 | 134.5 | 15.8 | 68 | 4 | 1.7 | 71 | 158 | 6.6 |

• Note: This product conforms to ISO 1179-1 and ISO 228-1.

★ Core product range

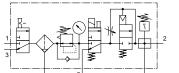
| Ordering data | a | | | | | | |
|--|---|---|---|---|---|--|--|
| Size | Connection | Condensate drain | Degree of filtration [µm] | Part no. | Туре | | |
| Pressure regulation range 0.5 10 bar, pressure gauge with outer scale in bar and inner scale in psi, branching module with pressure sensor | | | | | | | |
| MSB4 | G1/4 | Manual rotary | 40 | ★ 8025356 | MSB4-1/4:C3:J1:F12-WP | | |
| MSB6 | G1/2 | Manual rotary | 40 | ★ 8025357 | MSB6-1/2:C3:J1:F12-WP | | |
| Ordering data | a | | | | | | |
| Size | Connection | Condensate drain | Degree of filtration [µm] | Part no. | Туре | | |
| Pressure regulation range 0.5 7 bar, pressure gauge with outer scale in MPa, branching module with pressure sensor | | | | | | | |
| Pressure regu | ulation range 0.5 7 bar, p | pressure gauge with outer scale in M | Pa, branching module with pressure sen | sor | | | |
| Pressure regu MSB4 | ulation range 0.5 7 bar, p G1/4 | oressure gauge with outer scale in M Manual rotary | Pa, branching module with pressure sen 40 | sor 8042667 | MSB4-1/4:C3:J120:F12-WP | | |
| - | | | · · · | | MSB4-1/4:C3:J120:F12-WP MSB6-1/2:C3:J120:F12-WP | | |
| MSB4 MSB6 | G1/4 G1/2 | Manual rotary Manual rotary | 40 | 8042667 8042671 | MSB6-1/2:C3:J120:F12-WP | | |
| MSB4 MSB6 | G1/4 G1/2 | Manual rotary Manual rotary | 40 40 | 8042667 8042671 | MSB6-1/2:C3:J120:F12-WP | | |
| MSB4 MSB6 Pressure regu | G1/4 G1/2 ulation range 0.5 12 bar, | Manual rotary Manual rotary pressure gauge with outer scale in b | 40 40 bar and inner scale in psi, branching mod | 8042667 8042671 dule with pressure swit | MSB6-1/2:C3:J120:F12-WP | | |
| MSB4 MSB6 Pressure regu | G1/4 G1/2 ulation range 0.5 12 bar, | Manual rotary Manual rotary pressure gauge with outer scale in b Manual rotary | 40 40 bar and inner scale in psi, branching mod 40 | 8042667 8042671 dule with pressure swit 542294 | MSB6-1/2:C3:J120:F12-WP ch MSB4-1/4:C3J1F3-WP | | |

Festo core product range

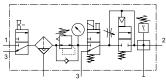
★ ☆

Function

With manual rotary condensate drain



Fully automatic condensate drain



- On/off valve MS...-EM1, manually operated
- Filter regulator MS...-LFR-D7 with pressure gauge
- On/off valve MS...-EE-V24, solenoid actuated

- Flow rate

Ι

750 ... 3100 l/min

Temperature range −10 ... +60°C

- Pressure regulation range 4 ... 12 bar
- Spare parts service
- Soft-start valve MS...-DL, pneumatically actuated
- Branching module MS...-FRM-Y with pressure switch without display
- Mounting bracket MS...-WP

- For filtered and unlubricated compressed air
- Supply pressure can be switched on or off
- 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

T

General technical data

| Size | | MSB4 | MSB6 |
|---------------------------------|-------|--|-------------------------------------|
| Pneumatic connection 1, 2, 3 | | G1/4 | G1/2 |
| Regulator function | | Output pressure constant, with primary pressure compensation, with | return flow, with secondary venting |
| Type of mounting | | With accessories | |
| Mounting position | | Vertical ±5° | |
| Grade of filtration | [µm] | - | 5 |
| | | 40 | |
| Air quality class at the output | | Compressed air to ISO 8573-1:2010 [6:4:4] (grade of filtration 5 µm) | |
| | | Compressed air to ISO 8573-1:2010 [7:4:4] (grade of filtration 40 µm |) |
| Bowl guard | | Plastic bowl guard | |
| Condensate drain | | Manual rotary | |
| | | Fully automatic | |
| Actuator lock | | Rotary knob with detent, can be locked using accessories | |
| Pressure regulation range | [bar] | 412 | |
| Pressure indication | | Via pressure gauge | |
| Characteristic coil data | | 24 V DC: 1.5 W | 24 V DC: 1.5 W |

♦ Note: This product conforms to ISO 1179-1 and ISO 228-1.

Standard nominal flow rate qnN [l/min]

| - 1 | erannanna menninger name dinn fr | , | | |
|-----|----------------------------------|-------|------|------|
| | Size | | MSB4 | MSB6 |
| | Grade of filtration | 5 µm | - | 3000 |
| | | 40 µm | 750 | 3100 |
| | | | | |

↓ 125 l/min must be available for the fully automatic condensate drain to close correctly.

Operating and environmental conditions

| Condensate drain | | Manual rotary | Manual rotary | | | | |
|--------------------------------|-------|------------------------|--|---------|--------|--|--|
| Size | | MSB4 | MSB6 | MSB4 | MSB6 | | |
| Operating pressure | [bar] | 4.5 14 | 4.5 18 | 4.5 12 | 4.5 12 | | |
| Operating medium | | Compressed air to ISO | 8573-1:2010 [7:4:4] | | | | |
| | | Inert gases | | | | | |
| Note on the operating/pilot me | edium | Lubricated operation p | Lubricated operation possible (in which case lubricated operation will always be required) | | | | |
| Ambient temperature | [°C] | -10 +60 | | +5 +60 | +5 +60 | | |
| Temperature of medium | [°C] | -10 +60 | | +5 +60 | | | |
| Storage temperature | [°C] | -10 +60 | | -10 +60 | | | |
| Corrosion resistance class CRC | 1) | 2 | | | | | |
| Food-safe ²⁾ | | See supplementary inf | See supplementary information on materials | | | | |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment. 2) Additional information is available at www.festo.com/sp \rightarrow Certificates.

| Weight [g] | | | | | | | |
|------------------|------|------|--|--|--|--|--|
| Size | MSB4 | MSB6 | | | | | |
| Service unit | 2200 | 3500 | | | | | |
| Mounting bracket | 40 | 76 | | | | | |

-Note -

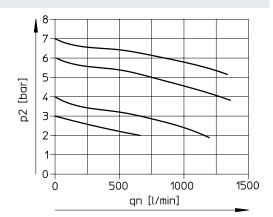
Materials \rightarrow Data sheet for the individual components

Standard flow rate qn as a function of output pressure p2

Pressure regulation range 4 ... 12 bar Degree of filtration 5 μm MSB4-1/4

Primary pressure p1 = 10 bar

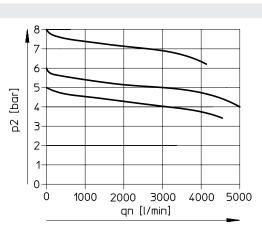
Degree of filtration 40 μm

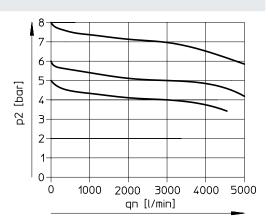


L



Primary pressure p1 = 10 bar

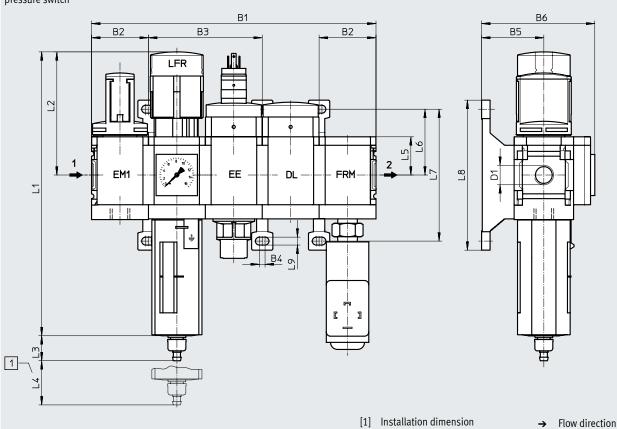




Dimensions

Download CAD data \rightarrow <u>www.festo.com</u>

Manually operated on/off valve, filter regulator with pressure gauge, solenoid actuated on/off valve, pneumatically actuated soft-start valve, branching module with pressure switch



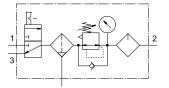
| Туре | B1 | B2 | B3 | B4 | B5 | B6 | D1 | L1 | L2 |
|------|------------------|------|-----------------|-----|----|------|------|-----|-------|
| | | | | | | | | | |
| MSB4 | 201 | 40.2 | 80.4 | 4 | 44 | 80 | G1/4 | 201 | 87 |
| MSB6 | 310 | 62 | 124 | 4.5 | 54 | 100 | G1/2 | 285 | 134.5 |
| | | | | | | | | | |
| Туре | | L3 | | L4 | L5 | L6 | L7 | L8 | L9 |
| | Condensate drain | | | | | | | | |
| | Manual ro | tary | 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 to ISO 1179-1 and ISO 228-1.

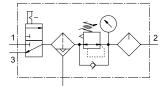
| Ordering data | | | | | | | | | |
|---------------|---|------------------|---------------------------|----------|------------------------|--|--|--|--|
| Size | Connection | Condensate drain | Degree of filtration [µm] | Part no. | Туре | | | | |
| Pressure regu | Pressure regulation range 4 12 bar, pressure gauge with outer scale in bar and inner scale in psi | | | | | | | | |
| MSB4 | G1/4 | Manual rotary | 40 | 542293 | MSB4-1/4:C3J1D1A1F3-WP | | | | |
| | | Fully automatic | 40 | 542299 | MSB4-1/4:C3J2D1A1F3-WP | | | | |
| MSB6 | G1/2 | Manual rotary | 40 | 542269 | MSB6-1/2:C3J1D1A1F3-WP | | | | |
| | | | 5 | 542281 | MSB6-1/2:C3J3D1A1F3-WP | | | | |
| | | Fully automatic | 40 | 542275 | MSB6-1/2:C3J2D1A1F3-WP | | | | |
| | | | 5 | 542287 | MSB6-1/2:C3J4D1A1F3-WP | | | | |

Function

With manual rotary condensate drain



Fully automatic condensate drain



Flow rate

M

- 1

750 ... 3100 l/min

Temperature range –10 ... +60°C

Pressure regulation range 1 ... 12 bar

Spare parts service



- For filtered and lubricated compressed air
- Supply pressure can be switched on • or off
- Output pressure is infinitely adjustable within the pressure regulation range

- On/off valve MS...-EM1, manually operated
- Filter regulator MS...-LFR-D7 with pressure gauge
- Lubricator MS...-LOE-R ٠
- Mounting bracket MS...-WP ٠

General technical data

| General technical data | | | | |
|---------------------------------|-------|--|-------------------------------------|--|
| Size | | MSB4 | MSB6 | |
| Pneumatic connection 1, 2, 3 | | G1/4 | G1/2 | |
| Regulator function | | Output pressure constant, with primary pressure compensation, with | return flow, with secondary venting | |
| Type of mounting | | With accessories | | |
| Mounting position | | Vertical ±5° | | |
| Grade of filtration | [µm] | 40 | | |
| Air quality class at the output | | Compressed air to ISO 8573-1:2010 [7:4:-] (grade of filtration 40 µm | | |
| Bowl guard | | Plastic bowl guard | | |
| Condensate drain Manual rotary | | | | |
| | | - | Fully automatic | |
| Actuator lock | | Rotary knob with detent, can be locked using accessories | | |
| Pressure regulation range | [bar] | 112 | | |
| Pressure indication | | Via pressure gauge | | |

Note: This product conforms to ISO 1179-1 and ISO 228-1.

Standard nominal flow rate qnN [l/min]

| Grade of filtration 40 µm 750 3100 | Size | MSB4 | MSB6 | |
|------------------------------------|---------------------------|------|------|--|
| | Grade of filtration 40 um | 750 | 3100 | |

+ 125 l/min must be available for the fully automatic condensate drain to close correctly.

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Data sheet – Combination 6

Operating and environmental conditions

| perating and entries interest | | | | | | |
|--|-------|--|-----------------|---------|--|--|
| Condensate drain | | Manual rotary | Fully automatic | | | |
| Size | | MSB4 | MSB6 | MSB6 | | |
| Operating pressure | [bar] | 1.5 14 | 1.5 18 | 2 12 | | |
| Operating medium | | Compressed air to ISO 8573-1:2010 [7:4:4] | ^ | | | |
| | | Inert gases | | | | |
| Note on the operating/pilot medi | um | Lubricated operation possible (in which case lubricated operation will always be required) | | | | |
| Ambient temperature | [°C] | -10 +60 | | +5 +60 | | |
| Temperature of medium | [°C] | -10 +60 | | +5 +60 | | |
| Storage temperature | [°C] | -10 +60 | | -10 +60 | | |
| Corrosion resistance class CRC ¹⁾ | | 2 | | | | |
| Food-safe ²⁾ | | See supplementary information on materials | | | | |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

2) Additional information is available at www.festo.com/sp \rightarrow Certificates.

Weight [g]

| 0.01 | | |
|------------------|------|------|
| Size | MSB4 | MSB6 |
| Service unit | 1500 | 1750 |
| Mounting bracket | 40 | 76 |

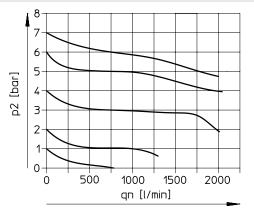
- 🕴 - Note

Materials \rightarrow Data sheet for the individual components

Standard flow rate qn as a function of output pressure p2

Pressure regulation range 1 ... 12 bar MSB4-1/4

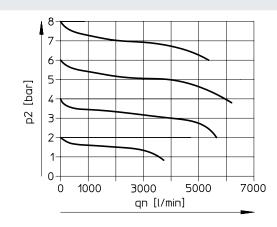
Primary pressure p1 = 10 bar



Degree of filtration 40 μm

MSB6-1/2





Dimensions

Manually operated on/off valve, filter regulator with pressure gauge, lubricator

B1 Β6 B5 Β2 ΒЗ LFR 2 ப ۲6 12 2 **6** LOE EM1 Б 5 1 I I F [∉ B₄ 1m म ₿ 1-L1 \square

[1] Installation dimension

Flow direction →

| Туре | B1 | B2 | B3 | B4 | B5 | B6 | | 1 | L1 | L2 |
|--------------|--------------|----------------------------|--------------------------|----------|----------|------------|-------------|------------|------------|-------------|
| MSB4 MSB6 | 120.6 186 | 40.2 62 | 40.2 62 | 4.5 | 44 54 | 80 | | /4 | 201 285 | 87 134.5 |
| Туре | Manual ro | L3 Condensate c tary | Irain Fully automatic | L4 | L5 | L6 | L7 | L8 | L9 | L10 |
| MSB4 MSB6 | 17.7 15.8 | | - 18.5 | 25 68 | 53 66 | 46.5 71 | 93.2 142 | 106 158 | 5.6 | 80 130 |

♦ Note: This product conforms to ISO 1179-1 and ISO 228-1.

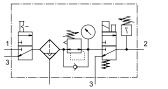
| Ordering data | | | | | | | | |
|---|------------|------------------|---------------------------|----------|--------------------|--|--|--|
| Size | Connection | Condensate drain | Degree of filtration [µm] | Part no. | Туре | | | |
| Pressure regulation range 1 12 bar, pressure gauge with outer scale in bar and inner scale in psi | | | | | | | | |
| MSB4 | G1/4 | Manual rotary | 40 | 542296 | MSB4-1/4:C3J1M1-WP | | | |
| MSB6 | G1/2 | Manual rotary | 40 | 542272 | MSB6-1/2:C3J1M1-WP | | | |
| | | Fully automatic | 40 | 542278 | MSB6-1/2:C3J2M1-WP | | | |

Download CAD data → <u>www.festo.com</u>

Data sheet – Combination 7

Function

With manual rotary condensate drain



- On/off valve MS...-EM1, manually operated
- Filter regulator MS...-LFR with pressure gauge
- On/off valve MS...-EE-10V24P-AD7, solenoid actuated, with pressure sensor for status indication
- Mounting bracket MS...-WP



- Pressure regulation range
 0.5 ... 10 bar
- Spare parts service



- For filtered and unlubricated compressed air
- Supply pressure can be switched on or off
- Output pressure is infinitely adjustable within the pressure regulation range
- When the unit is switched off, quick venting ensures rapid pressure reduction
- Electrical pressure monitoring with adjustable switching pressure

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General technical data

| Size | | MSB4 | MSB6 | | |
|---------------------------------|-------|--|-------------------------------------|--|--|
| Pneumatic connection 1, 2, 3 | | G1/4 G1/2 | | | |
| Regulator function | | Output pressure constant, with primary pressure compensation, with | return flow, with secondary venting | | |
| Type of mounting | | With accessories | | | |
| Mounting position | | Vertical ±5° | | | |
| Grade of filtration | [µm] | 40 | | | |
| Air quality class at the output | | Compressed air to ISO 8573-1:2010 [7:4:4] | | | |
| Bowl guard | | Plastic bowl guard | | | |
| Condensate drain | | Manual rotary | | | |
| Actuator lock | | Rotary knob with detent, can be locked using accessories | | | |
| Pressure regulation range | [bar] | 0.5 7 | | | |
| | | 0.5 10 | | | |
| Pressure indication | | Via pressure sensor with status indication for displaying the output p | ressure and with electrical output | | |
| | | Via pressure gauge for indicating the output pressure | | | |

• Note: This product conforms to ISO 1179-1 and ISO 228-1.

| Electrical data – On/off valve MS...-EE-10V24P-AD7

| Characteristic coil data | | 24 V DC: 1.8 W; perm. voltage fluctuations –15%/+10% |
|-----------------------------|--------------|--|
| Electrical connection | | M12x1 to IEC 61076-2-101 |
| Degree of protection for so | olenoid coil | IP65 |
| Duty cycle | [%] | 100 |

| Standard nominal flow rate gnN | [l/min] | | | | | | |
|--|----------------------------|---|-----------------------|--|--|--|--|
| Size | [,,] | MSB4 | MSB6 | | | | |
| Pressure regulation range 0.5 | 7 bar | | | | | | |
| Grade of filtration | 40 µm | 1600 | 4400 | | | | |
| Pressure regulation range 0.5 | 10 bar | | | | | | |
| Grade of filtration | 40 µm | 1400 | 4000 | | | | |
| Operating and environmental co Condensate drain | nditions | Manual rotary | MSB6 | | | | |
| Size | <i>[</i>] | MSB4 | | | | | |
| Operating pressure | [bar] | 0.8 14 | 0.8 18 | | | | |
| Operating medium | | Compressed air to ISO 8573-1:2010 [7:4:4] | | | | | |
| | | Inert gases | | | | | |
| Note on the operating/pilot mediu | um | Lubricated operation possible (in which case lubricated operation wil | l always be required) | | | | |
| Ambient temperature | [°C] | 0 +50 | | | | | |
| Temperature of medium | ature of medium [°C] 0 +50 | | | | | | |
| Storage temperature | | | | | | | |
| Corrosion resistance class CRC ¹⁾ | | 2 | | | | | |
| Food-safe ²⁾ | | See supplementary information on materials | | | | | |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

2) Additional information is available at www.festo.com/sp \rightarrow Certificates.

Weight [g]

| Weight [g] | | |
|------------------|------|------|
| Size | MSB4 | MSB6 |
| Service unit | 1600 | 2000 |
| Mounting bracket | 40 | 76 |

-Note -

Materials \rightarrow Data sheet for the individual components

Dimensions

Manually operated on/off valve, filter regulator with pressure gauge, solenoid actuated on/off valve with pressure sensor

Download CAD data → www.festo.com

106

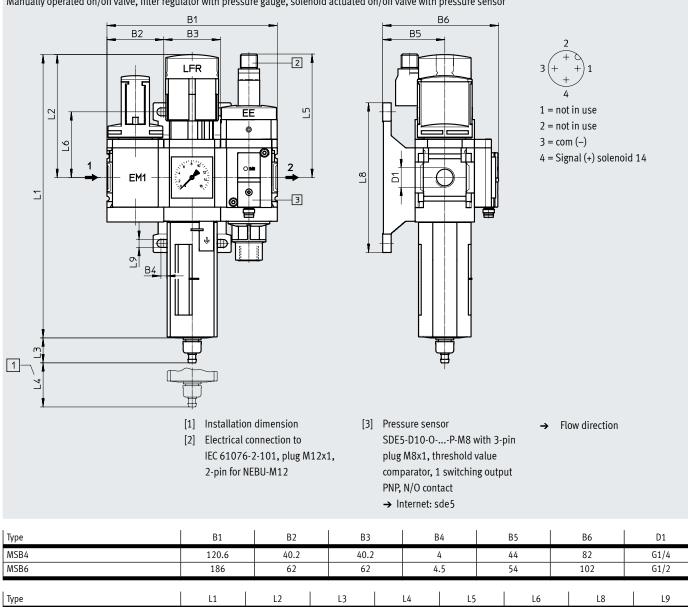
158

5.6

6.6

46.5

71



17.7

15.8

25

68

86.3

104

I Note: This product conforms to ISO 1179-1 and ISO 228-1.

201

285

87

134.5

MSB4

MSB6

★ Core product range

| Ordering data | | | | | | | | | |
|------------------------------|---|------------------|---------------------------|-------------------------|---------------------------------|--|--|--|--|
| Size | Connection | Condensate drain | Degree of filtration [µm] | Part no. | Туре | | | | |
| Pressure regu | Pressure regulation range 0.5 10 bar, pressure gauge with outer scale in bar and inner scale in psi | | | | | | | | |
| MSB4 | G1/4 | Manual rotary | 40 | ★ 8025358 | MSB4-1/4:C3:J1:D14-WP | | | | |
| MSB6 | G1/2 | Manual rotary | 40 | ★ 8025359 | MSB6-1/2:C3:J1:D14-WP | | | | |
| | | | | | | | | | |
| Ordering data Size | Connection | Condensate drain | Degree of filtration [µm] | Part no. | Туре | | | | |
| Size | Connection | Condensate drain | 0 | Part no. | Туре | | | | |
| Size | Connection | | 0 | Part no. 8042666 | Type MSB4-1/4:C3:J120:D14-WP | | | | |

Festo core product range

★ ☆ Generally ready for shipping ex works in 24 hours Generally ready for shipping ex works in 5 days

Accessories

| | Description | | Pneumatic connection | | | Part no. | Туре | | |
|---------------------|---|---|---------------------------------|-----------------------------------|---|---------------------------------------|--|--|--|
| | For MS4-EM1/EE | | | G1/4 | | | | 6842 | U-1/4-B |
| | For MS6-EM1/EE | | | G1/2 | | | | 6844 | U-1/2-B |
| | | | , | | | | | | |
| rdering data – Ar | ngled socket PEV | | | | | | | | Data sheets → Internet: p |
| | Description | Operating voltage r | ange | Electrical connection | | Switching status indication | | Part no. | Туре |
| Q | For PEV-1/4OD | 15 30 V DC | | 4-pin | | Yellow LED | | 164274 | PEV-1/4-WD-LED-24 |
| P | | | | 4-pin | - | | 164275 | PEV-1/4-WD-LED-230 | |
| rdering data – Pl | lug socket MSSD | | | | | | | | Data sheets → Internet: ms |
| | Description | Operating voltage r | ange | Electrical co | onnection | | f mounting for connection | Part no. | Туре |
| Ø | For PEV-1/4OD | ≤ 250 V AC/DC | | 3-pin | | Clamp | ing screws | 171157 | MSSD-C-4P |
| | For MS4/6-EE/DE | ≤ 250 V AC/DC | | 3-pin | | | ing screws | ★ 151687 | MSSD-EB |
| | | | | 4-pin | | Insulation displacement technology | | 192745 | MSSD-EB-S-M14 |
| rdering data – Pl | lug socket with cable KM | | Elect | rical | Switching | status | Cable length | Part no | 1 |
| rdering data – Pl | Description | Operating voltage | | ection | Switching indication | status | Cable length [m] | Part no. | Туре |
| rdering data – Pl | - | | | ection | | status | [m] 2.5 | 547268 | Туре КМЕВ-3-24-2.5-LED |
| rdering data – Pl | Description | Operating voltage | conn | ection | indication | status | [m] 2.5 5 | | Туре |
| rdering data – Pl | Description | Operating voltage | conn | ection | indication LED | status | [m] 2.5 | 547268 547269 | Type KMEB-3-24-2.5-LED KMEB-3-24-5-LED |
| ordering data – Pl | Description | Operating voltage | conn | ection I | indication LED | status | [m] 2.5 5 2.5 | 547268 547269 547270 | Type KMEB-3-24-2.5-LED KMEB-3-24-5-LED KMEB-3-24-2.5 |
| ordering data – Pl | Description | Operating voltage | conn 2-pin | ection I | indication LED - | status | [m] 2.5 5 2.5 5 2.5 5 2.5 5 | 547268 547269 547270 547271 | Type KMEB-3-24-2.5-LED KMEB-3-24-5-LED KMEB-3-24-2.5 KMEB-3-24-5 KMEB-1-24-2.5-LED KMEB-1-24-5-LED |
| erdering data – Pl | Description | Operating voltage | conn 2-pir 3-pir | ection I | LED LED LED | status | [m] 2.5 5 2.5 5 2.5 5 10 | 547268 547269 547270 547271 ★ 151688 151689 193457 | Type KMEB-3-24-2.5-LED KMEB-3-24-5-LED KMEB-3-24-2.5 KMEB-3-24-5 KMEB-1-24-2.5-LED KMEB-1-24-5-LED KMEB-1-24-5-LED KMEB-1-24-5-LED KMEB-1-24-5-LED KMEB-1-24-5-LED KMEB-1-24-5-LED |
| ordering data – Pl | Description | Operating voltage | conn 2-pin | ection I | indication LED - | status | [m] 2.5 5 2.5 5 2.5 5 10 2.5 | 547268 547269 547270 547271 ★ 151688 151689 193457 151690 | Type KMEB-3-24-2.5-LED KMEB-3-24-5-LED KMEB-3-24-5. KMEB-3-24-5 KMEB-1-24-2.5-LED KMEB-1-24-5-LED |
| | Description For MS4/6-EE/DE | Operating voltage | conn 2-pir 3-pir | ection | LED LED LED LED | | [m] 2.5 5 2.5 5 2.5 5 10 | 547268 547269 547270 547271 ★ 151688 151689 193457 151690 151691 | Type KMEB-3-24-2.5-LED KMEB-3-24-5-LED KMEB-3-24-2.5 KMEB-1-24-2.5-LED KMEB-1-24-5-LED KMEB-1-230AC-2.5 KMEB-1-230AC-5 |
| | Description Image: Construction of the second sec | Operating voltage | conn 2-pin 3-pin 3-pin | ection | LED LED LED LED | | [m] 2.5 5 2.5 5 2.5 5 10 2.5 | 547268 547269 547270 547271 ★ 151688 151689 193457 151690 | KMEB-3-24-2.5-LED KMEB-3-24-5-LED KMEB-3-24-5. KMEB-3-24-5 KMEB-1-24-2.5-LED KMEB-1-24-5.LED KMEB-1-24-5.LED KMEB-1-24-5.LED KMEB-1-24-5.LED KMEB-1-24-0.LED KMEB-1-230AC-2.5 KMEB-1-230AC-5 Data sheets → Internet: m Type |
| ordering data − III | Description For MS4/6-EE/DE Iuminating seal MEB-LD Description For plug socket with of | Operating voltage | conn 2-pin 3-pin 3-pin | Operating | LED LED LED LED voltage range | | [m] 2.5 5 2.5 5 2.5 5 10 2.5 | 547268 547269 547270 547271 ★ 151688 151689 193457 151690 151691 Part no. 151717 | Type KMEB-3-24-2.5-LED KMEB-3-24-5-LED KMEB-3-24-5 KMEB-1-24-2.5-LED KMEB-1-24-5-LED KMEB-1-24-5-LED KMEB-1-24-5-LED KMEB-1-24-5-LED KMEB-1-24-0-LED KMEB-1-230AC-2.5 KMEB-1-230AC-5 Data sheets → Internet: m Type MEB-LD-12-24DC |
| start - Ill | Description Image: Construction of the second sec | Operating voltage | conn 2-pin 3-pin 3-pin | ection | LED LED LED LED voltage range | | [m] 2.5 5 2.5 5 2.5 5 10 2.5 | 547268 547269 547270 547271 ★ 151688 151689 193457 151690 151691 Part no. | Type KMEB-3-24-2.5-LED KMEB-3-24-5-LED KMEB-3-24-5 KMEB-1-24-2.5-LED KMEB-1-24-5-LED KMEB-1-24-5-LED KMEB-1-24-5-LED KMEB-1-24-5-LED KMEB-1-24-5-LED KMEB-1-24-5-LED KMEB-1-230AC-2.5 KMEB-1-230AC-5 Data sheets → Internet: m Type |
| rdering data – Ill | Description For MS4/6-EE/DE Iuminating seal MEB-LD Description For plug socket with o MSSD-EB | Operating voltage | conn 2-pin 3-pin 3-pin | Operating 12 24 V 230 V DC/ | LED LED LED LED voltage range | | [m] 2.5 5 2.5 5 2.5 5 10 2.5 | 547268 547269 547270 547271 ★ 151688 151689 193457 151690 151691 Part no. 151717 | Type KMEB-3-24-2.5-LED KMEB-3-24-5-LED KMEB-3-24-5 KMEB-1-24-2.5-LED KMEB-1-24-5-LED KMEB-1-24-5-LED KMEB-1-24-5-LED KMEB-1-24-5-LED KMEB-1-230AC-2.5 KMEB-1-230AC-5 Data sheets → Internet: m Type MEB-LD-12-24DC MEB-LD-230AC |
| | Description For MS4/6-EE/DE Iuminating seal MEB-LD Description For plug socket with of MSSD-EB adlock LRVS-D | Operating voltage 24 V DC 230 V AC cable KMEB and plug so | conn 2-pin 3-pin 3-pin | Operating | LED LED LED LED voltage range | | [m] 2.5 5 2.5 5 2.5 5 10 2.5 | 547268 547269 547270 547271 ★ 151688 151689 193457 151690 151691 Part no. 151717 151718 | Type KMEB-3-24-2.5-LED KMEB-3-24-5-LED KMEB-3-24-5. KMEB-1-24-2.5-LED KMEB-1-24-5-LED KMEB-1-24-0-LED KMEB-1-230AC-2.5 KMEB-1-230AC-5 Data sheets → Internet: m Type MEB-LD-12-24DC |

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Accessories

Ordering data – Connecting cable NEBU-M8

| Ordering data - Connecting cable NEBU-M8Data sheets → Internet: | | | | | | | |
|---|-----------------------|-----------------|---------------------|---|--|--|--|
| | Electrical connection | Number of wires | Cable length [m] | Part no. | Туре | | |
| STREET, P | M8x1, straight socket | 3 | 2.5 5 | ★ 541333★ 541334 | NEBU-M8G3-K-2.5-LE3 NEBU-M8G3-K-5-LE3 | | |
| ST. Contraction | M8x1, angled socket | 3 | 2.5 | ★ 541338 | NEBU-M8W3-K-2.5-LE3 | | |
| | | | 5 | ★ 541341 | NEBU-M8W3-K-5-LE3 | | |

Ordering data – Connecting cable NEBU-M12

| Ordering data – Connecting cable NEBU-M12 Data sheets → Internet: r | | | | | | | |
|---|------------------------|-----------------|--------------|----------|----------------------|--|--|
| | Electrical connection | Number of wires | Cable length | Part no. | Туре | | |
| | | | [m] | | | | |
| State of | M12x1, straight socket | 4 | 2.5 | ★ 550326 | NEBU-M12G5-K-2.5-LE4 | | |
| ST. | | | 5 | ★ 541328 | NEBU-M12G5-K-5-LE4 | | |
| | M12x1, angled socket | 4 | 2.5 | 550325 | NEBU-M12W5-K-2.5-LE4 | | |
| Contraction of the second | | | 5 | 541329 | NEBU-M12W5-K-5-LE4 | | |

Festo core product range

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