



★/☆ Festo core product range

Covers 80% of your automation tasks

Worldwide: Always in stock

Superb: Festo quality at an attractive price
Easy: Reduces procurement and storing complexity

★ Ready for dispatch from the Festo factory in 24 hours Held in stock in 13 service centres worldwide More than 2200 products

Ready for dispatch in 5 days maximum from stock
Assembled for you in 4 service centres worldwide
Up to 6 x 10¹² variants per product series





| Туре | | Size | | | Pressi | ure regi | ılation | range | | | Grade | of filtr | ration | |
|-----------------------------|--------------------|------------|---|---|---------|----------|---------|----------|-----|-----|-----------|----------|--------|---------|
| | | | | | [bar] | | | | | | [µm] | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | Pneumatic | | 0.05 | 0.05 | ٥.1 | 0.2 | 0.1 | ٥. | | | | |
| | | | connection in | | 0.05 | 0.05 | 0.1 | 0.3 | 0.1 | 0.5 | | | | |
| | | | housing | Connecting plate | 0.7 | 2.5 | 4 | 7 | 12 | 16 | 0.01 | 1 | 5 | 40 |
| Code | | | liousing | AG/AQ | D2 | D4 | D5 | D6 | D7 | D8 | 0.01 A | В | C | 40 E |
| | L! | | | A0/AQ | D2 | 7 | | Ъ | υ, | ь | | | · | - |
| Service unit com MSB-FRC | DINATIONS | | C1/c C1/c | C1/c C1/c C3/c | 1 | 1 | | | | | 1 | 1 | | - |
| MSB-FKC | | 4 | G1/8, G1/4 | G½, G¼, G¾, G¾ G¼, G¾, G½, G¾ | - | - | _ | | | - | - | - | | - |
| | | 6 | G1/4, G3/8, G1/2 | U ¹ /4, U ² /8, U ¹ /2, U ² /4 | - | - | | - | - | _ | - | - | | |
| | | 9 | - | | | | | | | | | | | |
| | ₩ | 12 | - | | | | | | | | | | | |
| Service unit com | hinations (furth | or variant | ts can be ordered u | sing the configurator → Intern | at, mch | /ı mch | 6 or me | -h0) | | | | | | |
| MSB | Jiliations (tuitii | 4 | G ¹ / ₄ | G ¹ / ₈ , G ¹ / ₄ , G ³ / ₈ | | - - | _ | = | | Ι_ | I _ | _ | | |
| MSD | | | G½ | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄ | +- | | | | | | | _ | | |
| | | 6 | - | 0 1/4, 0 1/8, 0 1/2, 0 1/4 | _ | _ | | • | • | _ | _ | _ | • | - |
| | | 9 | | | | | | | | | | | | |
| | 1 | 12 | | | | | | | | | | | | |
| Individual device | | | | | | | | | | | | | | |
| Filter regulators | S @G | 4 | G½, G¼ | G½, G¼, G¾ | T - | _ | | - | • | l - | l _ | _ | | |
| MS-LFR | | 6 | G½, G¾, G½ | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄ | +- | _ | - | | | | _ | _ | | |
| MIS-LI K | | 9 | G ³ / ₄ , G1 | G½, G¾, G1, G1¼, G1½ | - | _ | - | | | | _ | _ | | |
| | | 12 | 074, 01 | G1, G1¼, G1½, G2 | _ | _ | - | | | | _ | _ | | |
| | Ψ | 12 | | 01, 01 /4, 01 /2, 02 | | | | | - | - | | | - | - |
| Filters | 0 | 4 | G1/8, G1/4 | G ¹ /8, G ¹ /4, G ³ /8 | _ | _ | _ | - | - | _ | _ | _ | | |
| MS-LF | | 6 | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄ | _ | _ | _ | _ | - | - | _ | - | | |
| | | 9 | G3/4, G1 | G½, G¾, G1, G1¼, G1½ | _ | _ | _ | _ | - | - | _ | - | | |
| | \$ | 12 | _ | G1, G1 ¹ / ₄ , G1 ¹ / ₂ , G2 | - | _ | _ | _ | _ | _ | _ | _ | | - |
| Fine and micro | 0 | 4 | G ¹ /8, G ¹ /4 | G¹/8, G¹/4, G³/8 | - | _ | _ | _ | - | - | | | - | - |
| filters | | 6 | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄ | - | _ | _ | _ | - | - | | | - | - |
| MS-LFM | | 9 | G3/4, G1 | G½, G¾, G1, G1¼, G1½ | - | _ | _ | _ | _ | _ | | • | - | - |
| | ₩ | 12 | _ | G1, G1 ¹ / ₄ , G1 ¹ / ₂ , G2 | - | _ | _ | _ | - | - | | | - | - |
| Activated carbon | | 4 | G ¹ /8, G ¹ /4 | G¹/8, G¹/4, G³/8 | - | _ | _ | _ | - | - | _ | - | - | - |
| filters | | 6 | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄ | _ | _ | _ | _ | _ | _ | _ | _ | - | - |
| MS-LFX | | 9 | G3/4, G1 | G½, G¾, G1, G1¼, G1½ | - | - | _ | - | - | - | - | _ | - | - |
| | ₩ | 12 | - | G1, G1¼, G1½, G2 | - | - | - | - | - | - | - | - | - | - |
| | 1 | 1 | _I | | 1 | 1 | | ı | I | 1 | 1 | 1 | 1 | 1 |
| Water separators | Q | 4 | - | | | | | | | | | | | |
| MS-LWS | | 6 | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄ | - | - | - | - | - | - | - | - | - | - |
| | | 9 | G3/4, G1 | G½, G¾, G1, G1¼, G1½ | - | - | - | - | - | - | - | - | - | - |
| | ₩ | 12 | _ | G1, G11/4, G11/2, G2 | - | _ | _ | _ | - | _ | _ | - | + | - |



| Туре | Size | Bowl g | uard | Conde | nsate dr | ains | | Pressu | re indic | ator | | | Securit | у | Option | | → Page/ Internet |
|--------------------|----------|---|------------|---------------|----------------|-----------------|---------------------------------------|--------------------------------------|---------------------------------|--|--|-----------------|--|----------------------------------|----------|-----------------------------------|---------------------|
| | | Plastic bowl with plastic bowl guard | Metal bowl | Manual rotary | Semi-automatic | Fully automatic | External, fully automatic, electrical | Cover plate (without pressure gauge) | Integrated MS pressure gauge | Adapter plate for EN pressure gauge G1/8 | Adapter plate for EN pressure gauge G1/4 | Pressure sensor | Rotary knob with detent, lockable via accessories | Rotary knob with integrated lock | Silencer | Flow direction from right to left | |
| Code | | R | U | М | Н | ٧ | E | VS | AG | A8 | A4 | AD | AS | E11 | S | Z | |
| Service unit comb | inations | <u>'</u> | | <u> </u> | <u>'</u> | | | <u> </u> | <u> </u> | <u> </u> | <u> </u> | | | ľ | | | " |
| MSB-FRC | 4 | • | - | • | - | | - | - | • | - | _ | _ | | - | - | | msb4 |
| | 6 | | | • | - | | - | - | • | - | - | - | | - | - | | msb6 |
| | 9 | _ | I | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | l . | 1 | 1 | 1 | 1 | - |
| | 12 | _ | | | | | | | | | | | | | | | - |
| | 1 | 1 | | | | | | | | | | | | | | | I . |
| Service unit comb | inations | | | | | | | | | | | | | | | | |
| MSB | 4 | | | | _ | | _ | l - | - | _ | _ | _ | | _ | _ | | 8 |
| | 6 | | | | _ | | _ | _ | | _ | _ | _ | | _ | _ | | 8 |
| | 9 | _ | | | | | | | | | | | | | | | _ |
| | 12 | _ | | | | | | | | | | | | | | | _ |
| | 12 | _ | | | | | | | | | | | | | | | |
| Individual devices | • | | | | | | | | | | | | | | | | |
| Filter regulators | 4 | | | | | | _ | | | | | | | | _ | | ms4-lfr |
| MS-LFR | 6 | | | - | | | | | | _ | | | | | _ | | ms6-lfr |
| MS LIK | 9 | _ | | | | | | | | _ | | | | | _ | | ms9-lfr |
| | 12 | _ | | | _ | | | | | _ | | _ | | | _ | | ms12-lfr |
| | 12 | | - | - | | - | • | - | - | | - | _ | • | • | _ | - | 111312 111 |
| Filters | 4 | | • | • | • | | _ | _ | - | _ | _ | _ | _ | _ | - | | ms4-lf |
| MS-LF | 6 | | | | | | | _ | _ | _ | _ | _ | _ | _ | _ | | ms6-lf |
| | 9 | _ | | | | | | _ | _ | _ | _ | _ | _ | _ | _ | | ms9-lf |
| | 12 | _ | | | - | | | _ | _ | _ | _ | _ | _ | _ | _ | | ms12-lf |
| Fine and micro | 4 | _ | | | • | | - | _ | _ | _ | _ | _ | _ | _ | _ | | ms4-lfm |
| filters | 6 | | | | | | | _ | _ | _ | _ | _ | _ | _ | _ | | ms6-lfm |
| MS-LFM | 9 | _ | | | | | | _ | _ | _ | _ | _ | _ | _ | _ | | ms9-lfm |
| MJ-LIW | 12 | _ | | - | _ | | | _ | _ | _ | _ | _ | _ | _ | _ | | ms12-lfm |
| Activated carbon | 4 | _ | | - | - | _ | - | _ | _ | _ | _ | _ | _ | _ | _ | | ms4-lfx |
| filters | 6 | | | _ | _ | _ | - | _ | _ | _ | _ | _ | _ | _ | _ | | ms6-lfx |
| MS-LFX | 9 | - | | _ | _ | _ | - | _ | _ | _ | _ | _ | _ | _ | _ | | ms9-lfx |
| MJ-LIA | 12 | _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | | ms12-lfx |
| | 12 | | | | | | _ | | | | | | _ | | _ | | 111217-fly |
| Water separators | 4 | | | | | | | | | | | | | | | | _ |
| MS-LWS | 4 | - | _ | | | _ | | | | | | | | | | _ | |
| IVI3-LVV3 | 6 | - | | - | - | | | - | - | - | - | - | - | - | - | | ms6-lws |
| | 9 | - | - | - | - | | - | - | - | - | - | - | - | - | - | - | ms9-lws |
| | 12 | - | | - | - | | | - | - | - | _ | - | - | - | - | | ms12-lws |



| Туре | | Size | | | Pressi [bar] | ure regi | ulation | range | | | Suppl | y volta | ge | |
|----------------------------|------------|------|---|---|-----------------|----------|---------|-------|----------|----------|--|--|--|--|
| | | | Pneumatic connection in | | 0.05 | 0.05 | 0.1 | 0.3 | 0.1 | 0.5 | 24 V DC, connection pattern to EN 175301 | 24 V DC, connection M12 to IEC 61076-2-101 | 110 V AC, connection pattern to EN 175301 | 230 V AC, connection pattern to EN 175301 |
| Codo | | | housing | Connecting plate | 0.7 | 2.5 | 4 | 7 | 12 | 16 D8 | | | | |
| Code Individual devices | | | | AG/AQ | D2 | D4 | D5 | D6 | D7 | D8 | V24 | V24P | V110 | V230 |
| Pressure | æ | 4 | G½, G¼ | G½, G¼, G¾ | l _ | _ | - | | | I _ | Ι_ | l _ | _ | _ |
| regulators | A | 6 | G½, G¾, G½ | G½, G¾, G½, G¾ | | _ | | | | | | _ | _ | _ |
| MS-LR | | 9 | G ³ / ₄ , G1 | G½, G¾, G1, G1¼, G1½ | | _ | | | | | _ | _ | _ | _ |
| mo Ek | * | 12 | - | G1, G1¼, G1½, G2 | _ | _ | _ | | _ | | _ | _ | _ | _ |
| Pressure | <i>6</i> 9 | 4 | G ¹ / ₄ | G ¹ / ₈ , G ¹ / ₄ , G ³ / ₈ | _ | _ | | | | = | _ | _ | _ | _ |
| regulators | | 6 | G ¹ / ₂ | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄ | _ | _ | | | _ | | _ | _ | _ | _ |
| MS-LRB | | 9 | - | 074, 076, 072, 074 | | | | | | | | | | |
| | | 12 | _ | | | | | | | | | | | |
| Precision | B | 4 | _ | | | | | | | | | | | |
| pressure | | 6 | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄ | | | • | - | | _ | _ | - | - | _ |
| regulators | | 9 | _ | .,,,,,,,,,, | | | | 1 | | | | | | |
| MS-LRP | • | 12 | _ | | | | | | | | | | | |
| Precision | Ø | 4 | _ | | | | | | | | | | | |
| pressure | | 6 | G½ | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄ | | | | - | | - | - | - | - | - |
| regulators | | 9 | _ | | 1 | l | | | ļ | | 1 | | l | |
| MS-LRPB | • | 12 | _ | | | | | | | | | | | |
| Electrical | | 4 | | | | | | | | | | | | |
| pressure | | 6 | G1/4, G3/8, G1/2 | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄ | - | - | | | | | - | - | - | - |
| regulators | | 9 | - | | | | | • | | | | | | |
| MS-LRE | % | 12 | _ | | | | | | | | | | | |
| | | 1 | 1 | | | | ı | | 1 | | 1 | ı | 1 | |
| Lubricators | | 4 | G1/8, G1/4 | G¹/8, G¹/4, G³/8 | - | - | - | - | - | - | - | - | - | - |
| MS-LOE | | 6 | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ | G¹/4, G³/8, G¹/2, G³/4 | - | - | - | - | - | - | - | - | - | - |
| | | 9 | G3/4, G1 | G½, G¾, G1, G1¼, G1½ | - | - | - | - | - | - | - | - | - | - |
| | | 12 | - | G1, G1¼, G1½, G2 | - | - | - | _ | - | _ | - | - | - | - |
| On-off valves, | ^ | 4 | G1/8, G1/4 | G½, G¼, G¾ | | | | | | | | | | |
| manually | | 6 | G½, G¾ G½, G¾, G½ | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄ | _ | _ | - | - | _ | - | _ | _ | _ | _ |
| actuated | | 9 | G ³ / ₄ , G ³ / ₈ , G ² / ₂ | G½, G¾, G1, G1¼, G1½ | _ | _ | _ | - | _ | <u> </u> | _ | _ | _ | _ |
| MS-EM(1) | | 12 | d%4, d1 _ | G1, G1 ¹ / ₄ , G1 ¹ / ₂ , G2 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| On-off valves, | A | 4 | G ¹ /8, G ¹ /4 | G1/8, G1/4, G3/8 | _ | _ | _ | _ | _ | _ | _ | _ | - | _ |
| electrically | | 6 | G½, G¾, G½ | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄ | _ | _ | _ | _ | _ | _ | | _ | | |
| actuated | | 9 | G3/4, G1 | G½, G¾, G1, G1¼, G1½ | _ | _ | _ | _ | _ | _ | | - | | _ |
| MS-EE | ₩_ | 12 | - | G1, G1¼, G1½, G2 | _ | _ | _ | _ | _ | _ | | _ | | _ |
| Soft-start valves, | | 4 | G½, G¼ | G½, G¼, G¾, G¾ | _ | _ | _ | _ | _ | - | _ | _ | _ | _ |
| pneumatically | | 6 | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄ | _ | _ | _ | - | _ | - | _ | _ | _ | - |
| actuated | ** | 9 | - | | 1 | <u> </u> | | 1 | <u> </u> | 1 | 1 | 1 | 1 | |
| MS-DL | | 12 | _ | G1, G11/4, G11/2, G2 | - | _ | _ | - | - | - | _ | - | - | _ |
| Soft-start valves, | (S) | 4 | G ¹ /8, G ¹ /4 | G½, G¼, G¾, G¾ | _ | _ | _ | - | _ | - | | _ | | |
| electrically | V154 | 6 | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄ | _ | _ | _ | - | _ | _ | | _ | | • |
| actuated | | 9 | - | <u> </u> | 1 | 1 | 1 | 1 | I | 1 | 1 | 1 | I | - |
| MS-DE | | 12 | _ | G1, G11/4, G11/2, G2 | - | - | - | - | - | - | | | • | |
| | | | 1 | 1 1 1 1 | | | | 1 | | | 1 | | | 1 |



| Туре | Size | Bowl guar | d | Pressure i | indicator | | | | Security | | Options | | → Page/ Internet |
|-----------------------|------|---|------------|---|---------------------------------|--|--|-----------------|--|----------------------------------|----------|-----------------------------------|---------------------|
| | | Plastic bowl with plastic bowl guard | Metal bowl | Cover plate (without pressure gauge) | Integrated MS pressure gauge | Adapter plate for EN pressure gauge G1/8 | Adapter plate for EN pressure gauge G1/4 | Pressure sensor | Rotary knob with detent, lockable via accessories | Rotary knob with integrated lock | Silencer | Flow direction from right to left | |
| Code | | R | U | VS | AG | A8 | A4 | AD | AS | E11 | S | Z | |
| Individual device | | | | | | | | | | | | | |
| Pressure | 4 | - | - | | | | | | | • | - | • | ms4-lr |
| regulators | 6 | - | - | - | | - | | - | • | • | - | • | ms6-lr |
| MS-LR | 9 | - | - | | | - | | | | | - | | ms9-lr |
| | 12 | - | - | | | - | | - | | | - | • | ms12-lr |
| Pressure | 4 | - | - | | | | | | | | - | | ms4-lrb |
| regulators | 6 | - | - | | | - | | | | | - | | ms6-lrb |
| MS-LRB | 9 | - | | | | | | | | | | | - |
| | 12 | - | | | | | | | | | | | - |
| Precision | 4 | - | I | | | | | _ | | | | | - |
| pressure | 6 | - | - | | - | | | | | | - | | ms6-lrp |
| regulators | 9 | - | | | | | | | | | | | - |
| MS-LRP | 12 | - | | | | | | | | | | | - |
| Precision | 4 | - | | | | | _ | _ | | _ | | | |
| pressure | 6 | - | - | | - | | | | | | - | | ms6-lrpb |
| regulators MS-LRPB | 9 | - | | | | | | | | | | | - |
| Electrical | | - | | | | | | | | | | | _ |
| pressure | 6 | _ | _ | | | _ | | | _ | _ | _ | | ms6-lre |
| regulators | 9 | | _ | - | _ | _ | | - | _ | _ | _ | _ | - |
| MS-LRE | 12 | - | | | | | | | | | | | _ |
| MO ERE | 12 | | | | | | | | | | | | |
| Lubricators | 4 | | | _ | _ | _ | _ | _ | _ | _ | _ | - | ms4-loe |
| MS-LOE | 6 | _ | | _ | _ | _ | _ | _ | - | _ | _ | | ms6-loe |
| | 9 | _ | | _ | _ | _ | _ | _ | _ | _ | _ | - | ms9-loe |
| | 12 | _ | - | _ | _ | _ | _ | _ | _ | _ | _ | | ms12-loe |
| | | | | | | | | | | | | | |
| On-off valves, | 4 | - | - | | | | | | - | _ | | | ms4-em1 |
| manually | 6 | - | - | - | | - | | • | - | - | | • | ms6-em1 |
| actuated | 9 | - | - | | | - | | - | - | - | | | ms9-em |
| MS-EM(1) | 12 | - | - | - | | - | | - | - | - | | • | ms12-em |
| On-off valves, | 4 | - | - | | | - | | • | - | - | | | ms4-ee |
| electrically | 6 | _ | _ | • | | - | • | - | - | _ | | - | ms6-ee |
| actuated | 9 | - | - | | | - | | | - | - | | | ms9-ee |
| MS-EE | 12 | - | - | | | - | | - | - | _ | | • | ms12-ee |
| Soft-start valves, | 4 | - | - | | | | | | - | _ | - | • | ms4-dl |
| pneumatically | 6 | - | - | | | - | | | - | - | - | | ms6-dl |
| actuated | 9 | - | | | • | | | | | | • | | - |
| MS-DL | 12 | - | - | | | - | | - | - | - | - | • | ms12-dl |
| Soft-start valves, | 4 | - | - | • | | • | • | - | - | - | - | - | ms4-de |
| electrically | 6 | - | - | • | | - | • | - | - | - | - | - | ms6-de |
| actuated | 9 | - | | | • | | | • | • | • | • | | - |
| MS-DE | 12 | - | - | | | - | | - | - | - | - | | ms12-de |



| Туре | | Size | | | Perforr | nance Le | evel | Supply | voltage | | | |
|--------------------|------------|------|---|---|-----------------------|-----------------------|--|-----------------------|--|----------------------------|--|-------------------------------|
| Code | | | Pneumatic connection in housing | Connecting plate AG/AQ | Category 1, 1-channel | Category 3, 2-channel | Category 4, 2-channel with self-monitoring | 24 V DC, Sub-D, 9-pin | 757 00 24 V DC, connection pattern to FS Not EN 175301 | 24 V DC, connection M12 to | 0110/230 V AC, connection pattern 0 (0 to EN 175301 | 22 31.6 V DC, connection M12, |
| Individual devices | | | | | 1 | | 1 | | | | | |
| Soft start and | .Sa | 4 | _ | | | | | | | | | |
| exhaust valves | | 6 | G½ | G1/4, G3/8, G1/2, G3/4 | | _ | - | - | | | - | _ |
| MS-SV-C | | 9 | G3/4, G1 | G½, G¾, G1, G1¼, G1½ | | _ | _ | _ | | | | _ |
| | | 12 | _ | | 1 | | 1 | | | 1 | | |
| Soft start and | (%) | 4 | - | | | | | | | | | |
| exhaust valves | | 6 | G ¹ / ₂ | G1/4, G3/8, G1/2, G3/4 | - | | - | - | | | - | - |
| MS-SV-D | | 9 | - | 1 | | | | | | | | 1 |
| | | 12 | _ | | | | | | | | | |
| Soft start and | | 4 | - | | | | | | | | | |
| exhaust valves | | 6 | G1/2 | G1/4, G3/8, G1/2, G3/4 | - | - | | | - | - | - | |
| MS-SV-E | | 9 | - | | I | | 1 | | | | | |
| | | 12 | - | | | | | | | | | |
| | | | | | | | | | | | | |
| Membrane air | | 4 | G½, G¼ | G1/8, G1/4, G3/8 | - | - | - | - | - | - | - | _ |
| dryers | | 6 | G1/4, G3/8, G1/2 | G1/4, G3/8, G1/2, G3/4 | - | - | - | - | - | - | - | - |
| MS-LDM1 | | 9 | - | | | | | | | | | |
| | \cdots | 12 | - | | | | | | | | | |
| | | 1 - | | 24/ 24/ 22/ | 1 | | | ı | | | ı | |
| Branching | | 4 | G1/8, G1/4 | G¹/8, G¹/4, G³/8 | - | - | - | - | - | - | - | - |
| modules | | 6 | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ | G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄ | - | - | - | - | - | - | - | - |
| MS-FRM | | 9 | G3/4, G1 | G¹/2, G³/4, G1, G1¹/4, G1¹/2 | - | - | - | - | - | - | - | - |
| Distrikus | | 12 | - | G1, G1¼, G1½, G2 | - | - | - | - | - | - | - | - |
| Distributor | | 4 | G1/4 | - | - | - | - | - | - | - | - | - |
| blocks | W | 6 | G½ | - | - | - | - | - | - | - | - | - |
| MS-FRM-FRZ | | 9 | - | | | | | | | | | |
| | | 12 | - | | | | | | | | | |
| Flow sensors | | 4 | _ | | | | | | | | | |
| SFAM | | 6 | - G ¹ / ₂ | G ¹ / ₂ | _ | _ | _ | _ | _ | _ | _ | _ |
| JAM | | 9 | G*/2 - | G1, G1½ | _ | _ | _ | _ | | | _ | _ |
| | | 12 | _ | 01, 0172 | | | | | _ | _ | | |
| | | 12 | | | | | | | | | | |



| Туре | Size | Bowl guar | d | Pressure i | ndicator | | | | Switch ou | tput | Options | | → Page/ Internet |
|-------------------|------|--------------------------------------|------------|---|------------------------------|--|---|-----------------|---|--|---------|-----------------------------------|---------------------|
| | | Plastic bowl with plastic bowl guard | Metal bowl | Cover plate (without pressure gauge) | Integrated MS pressure gauge | Adapter plate for EN pressure gauge G½8 | Adapter plate for EN pressure gauge G½ | Pressure sensor | 2x PNP or NPN, 1 analogue output 4 20 mA | 2x PNP or NPN, 1 analogue output 0 10 V | Silenær | Flow direction from right to left | |
| Code | | R | U | VS | AG | A8 | A4 | AD | 2SA | 2SV | S | Z/R | |
| Individual device | | | | | | | | | | | | | |
| Soft start and | 4 | _ | | | | | | | | | | | _ |
| exhaust valves | 6 | _ | _ | | | _ | | | _ | _ | | | ms6-sv |
| MS-SV-C | 9 | _ | _ | | | _ | | | _ | _ | | | ms9-sv |
| | 12 | _ | | | | | | | | | | | - |
| Soft start and | 4 | _ | | | | | | | | | | | _ |
| exhaust valves | 6 | _ | _ | | | _ | | | _ | _ | | | ms6-sv |
| MS-SV-D | 9 | _ | | | | | | | | | | | _ |
| | 12 | _ | | | | | | | | | | | _ |
| Soft start and | 4 | _ | | | | | | | | | | | _ |
| exhaust valves | 6 | _ | _ | | | - | • | | _ | _ | • | • | ms6-sv |
| MS-SV-E | 9 | - | | | | 1 | 1 | | | | 1 | | - |
| | 12 | - | | | | | | | | | | | - |
| | 1, | | | | | 1 | I | I | | | 1 | | |
| Membrane air | 4 | - | - | _ | _ | - | - | - | - | - | - | - | ms4-ldm1 |
| dryers | 6 | - | | - | - | - | - | - | - | - | - | | ms6-ldm1 |
| MS-LDM1 | 9 | - | | | | | | | | | | | _ |
| | 12 | - | | | | | | | | | | | _ |
| Branching | 4 | _ | _ | | | | | | _ | _ | _ | | ms4-frm |
| modules | 6 | _ | _ | | | _ | | | _ | _ | _ | | ms6-frm |
| MS-FRM | 9 | - | _ | - | | - | - | | - | - | - | | ms9-frm |
| | 12 | - | _ | | - | - | - | - | - | _ | - | - | ms12-frm |
| Distributor | 4 | - | _ | _ | _ | - | - | - | - | _ | - | | ms4-frm |
| blocks | 6 | - | _ | _ | _ | - | - | - | - | _ | - | | ms6-frm |
| MS-FRM-FRZ | 9 | - | I . | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | ı | _ |
| | 12 | - | | | | | | | | | | | - |
| | | | | | | | | | | | | | |
| Flow sensors | 4 | - | | | | | | | | | | | - |
| SFAM | 6 | - | _ | - | - | - | - | - | | | - | | sfam-62 |
| | 9 | - | - | - | - | - | - | - | | | - | | sfam-90 |
| | 12 | - | | | | | | | | | | | - |

Service unit combinations MSB4/MSB6, MS series Product range overview

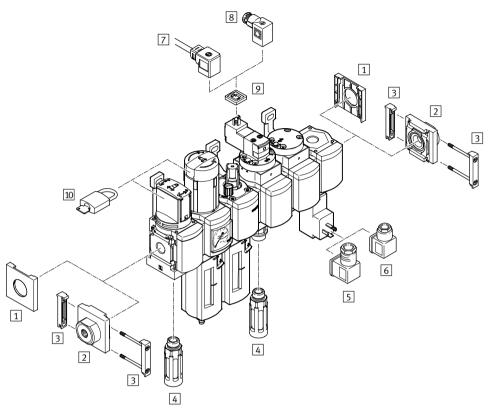


| Combinations | | Combination 1 | Combination 2 | Combination 3 |
|--|-----|---------------|---------------|---------------|
| Comprising: | | | | |
| Manually operated on-off valve | EM1 | • | • | - |
| Filter regulator with pressure gauge, lockable | LFR | • | • | • |
| Lubricator | LOE | • | - | - |
| 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 | • | • | • |
| Type codes → Page | | 10 | 10 | 10 |
| Technical data → Page | | 11 | 14 | 18 |

| 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 | • | • | • | • | • |
| Type codes → Page | | 10 | 10 | 10 | 10 | 10 |
| Technical data → Page | | 21 | 21 | 26 | 29 | 32 |

Service unit combinations MSB4/MSB6, MS series Peripherals overview





Note

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

Range of accessories

→ Peripherals pages of the individual devices

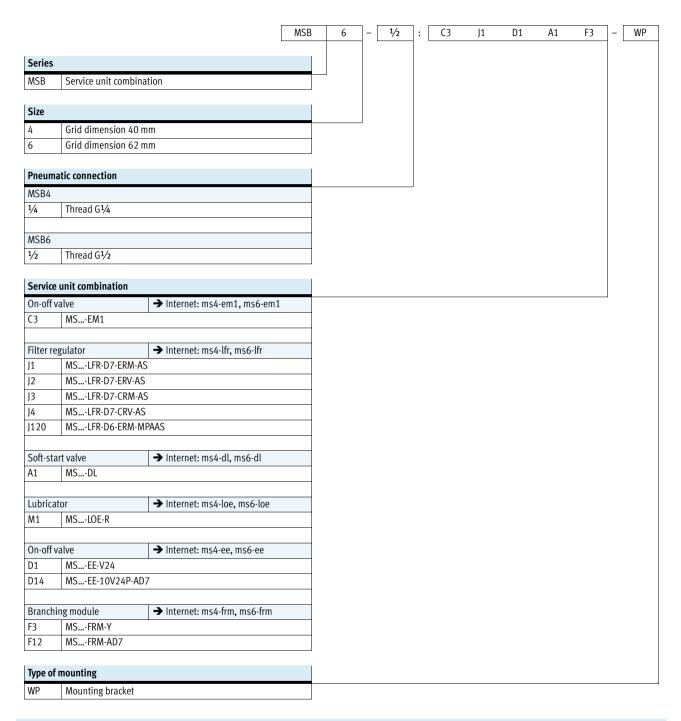
| Mou | ınting attachments and accessories | → Page/Internet |
|-----|------------------------------------|-----------------|
| 1 | Cover cap | ms4-end, |
| | MS4/6-END | ms6-end |
| 2 | Connecting plate-SET | ms4-ag, |
| | MS4/6-AG | ms6-ag |
| 3 | Module connector | ms4-mv, |
| | MS4/6-MV | ms6-mv |
| 4 | Silencer | 36 |
| | U | |
| 5 | Angled socket | 36 |
| | PEV-1/4-WD-LED | |
| 6 | Plug socket | 36 |
| | MSSD-C-4P | |
| 7 | Plug socket with cable | 36 |
| | KMEB | |
| 8 | Plug socket | 36 |
| | MSSD-EB | |
| 9 | Illuminating seal | 36 |
| | MEB-LD | |
| 10 | Padlock | 36 |
| | LRVS-D | |
| 1 | Mounting bracket | ms4-wp, |
| | MS4/6-WP/WPB/WPE/WPM | ms6-wp |

- New MSB4/6-...J120

Service unit combinations MSB4/MSB6, MS series

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Type codes



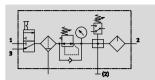
Further variants can be ordered using the modular system → www.festo.com

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



Technical data - Combination 1

Function
With condensate drain
manual rotary



- On-off valve MS...-EM1 manually actuated
- 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



Temperature range −10 ... +60 °C



Pressure regulation range

1 ... 12 bar



www.festo.com



- For filtered and lubricated compressed air
- Supply pressure can be opened and closed
- 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 connections

| General technical data | |
|---------------------------------|---|
| Size | MSB4 |
| Pneumatic connection 1, 2, 3 | G1/4 |
| Regulating function | Output pressure constant, with primary pressure compensation, with return flow function, with secondary venting |
| Type of mounting | Via accessories |
| Assembly position | Vertical ±5° |
| Grade of filtration [µm] | 40 |
| Air purity class at the output | Compressed air in accordance with ISO 8573-1:2010 [7:4:4] (grade of filtration 40 µm) |
| Bowl guard | Plastic bowl guard |
| Condensate drain | Manual rotary |
| Actuator lock | Rotary knob with detent, lockable with accessories |
| Pressure regulation range [bar] | 112 |
| Pressure indicator | With pressure gauge |

 $[\]parallel$ Note: This product conforms to ISO 1179-1 and to ISO 228-1

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

Service unit combinations MSB4/MSB6, MS series Technical data – Combination 1



| Operating and environmen | tal condition | s |
|-----------------------------|-------------------|--|
| Condensate drain | | Manual rotary |
| Size | | MSB4 |
| Operating pressure | [bar] | 1.5 14 |
| Operating medium | | Compressed air in accordance with ISO 8573-1:2010 [7:4:4] |
| | | Inert gases |
| Note on operating/pilot med | lium | Operation with lubricated medium 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 | CRC ¹⁾ | 2 |

Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

| Weights [g] | |
|--------------------------|-------|
| Size | MSB4 |
| Service unit combination | 1,700 |
| Mounting bracket | 40 |



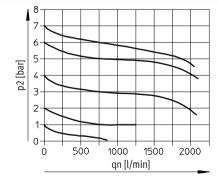
Note

Materials → Technical data of the individual devices

Standard flow rate qn as a function of output pressure p2

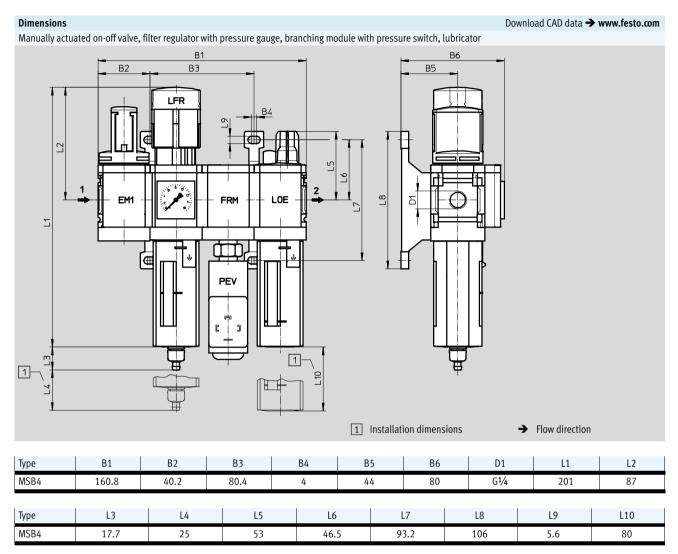
Pressure regulation range 1 ... 12 bar Grade of filtration 40 μm MSB4-1/4

Primary pressure p1 = 10 bar



Service unit combinations MSB4/MSB6, MS series Technical data – Combination 1





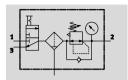
 $[\]parallel$ Note: This product conforms to ISO 1179-1 and to ISO 228-1

| Ordering data | | | | | | | |
|---|------------|------------------|--------------------------|----------|----------------------|--|--|
| Size | Connection | Condensate drain | Grade 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 | | |

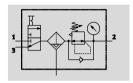
FESTO

Technical data - Combination 2

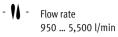
Function With condensate drain manual rotary

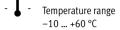


With condensate drain fully automatic



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





Pressure regulation range
0.5 ... 12 bar

- www.festo.com



- For filtered and unlubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range

| General technical data | | | |
|--|---|---|--|
| Size | MSB4 | MSB6 | |
| Pneumatic connection 1, 2, 3 | G1/4 | G ¹ / ₂ | |
| Regulating function | Output pressure constant, with primary pressure compensati | on, with return flow function, with secondary venting | |
| Type of mounting | Via accessories | | |
| Assembly position | Vertical ±5° | | |
| Grade of filtration [µm] | 5 | | |
| | 40 | | |
| Air purity class at the output | Compressed air in accordance with ISO 8573-1:2010 [6:4:4] (grade of filtration 5 µm) | | |
| | Compressed air in accordance with ISO 8573-1:2010 [7:4:4] (grade of filtration 40 µm) | | |
| Bowl guard | Plastic bowl guard | | |
| Condensate drain | anual rotary | | |
| | Fully automatic | | |
| Actuator lock | Rotary knob with detent, lockable with accessories | | |
| Pressure regulation range [bar] | 0.5 7 | | |
| | 0.5 12 | | |
| Pressure indicator With pressure gauge | | | |

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

| 1 | | | | | |
|-------------------------------------|------------|---------------|-------|-----------------|-------|
| Standard nominal flow rate q | nN [l/min] | | | | |
| Condensate drain | | Manual rotary | | Fully automatic | |
| Size | | MSB4 MSB6 | | MSB4 | MSB6 |
| Pressure regulation range 0.5 7 bar | | | | | |
| Grade of filtration | 40 μm | 1,150 | 5,500 | - | - |
| | | | | | |
| Pressure regulation range 0.5 | 12 bar | | | | |
| Grade of filtration | 5 μm | 950 | 4,800 | 950 | 4,800 |
| | 40 μm | 1,700 | 5,100 | 1,000 | 5,100 |

 $[\]parallel$ · 125 l/min must be available for the fully automatic condensate drain to close correctly.

FESTO

Technical data - Combination 2

| Operating and environmental conditions Condensate drain | | Manual rotans | | | | | |
|---|-------------------|-----------------------|--|---------------------------------|--|--|--|
| Condensate drain | | Manual rotary | | Fully automatic | | | |
| Size | | MSB4 | MSB6 | MSB4 | MSB6 | | |
| Operating pressure | [bar] | 0.8 14 | 0.8 18 | 2 12 | 2 12 | | |
| Operating medium | | Compressed air in ac | ompressed air in accordance with ISO 8573-1:2010 [7:4:4] | | | | |
| | | Inert gases | | | | | |
| Note on operating/pilot me | dium | Operation with lubric | cated medium possible (in wh | ich case lubricated operation w | ubricated 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 | CRC ¹⁾ | 2 | | · | | | |

¹⁾ Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

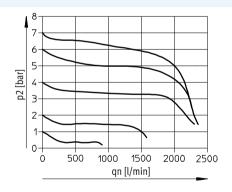
| Weights [g] | | |
|--------------------------|-------|-------|
| Size | MSB4 | MSB6 |
| Service unit combination | 1,300 | 1,100 |
| Mounting bracket | 40 | 76 |



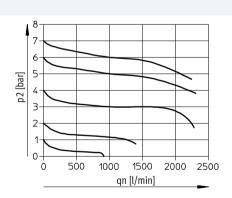
Standard flow rate qn as a function of output pressure p2

Pressure regulation range 0.5 ... 12 bar $\,$ Grade of filtration 5 μm MSB4- $\frac{1}{4}$

Primary pressure p1 = 10 bar

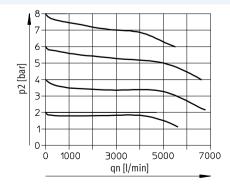


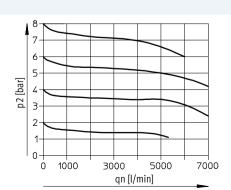




MSB6-1/2

Primary pressure p1 = 10 bar

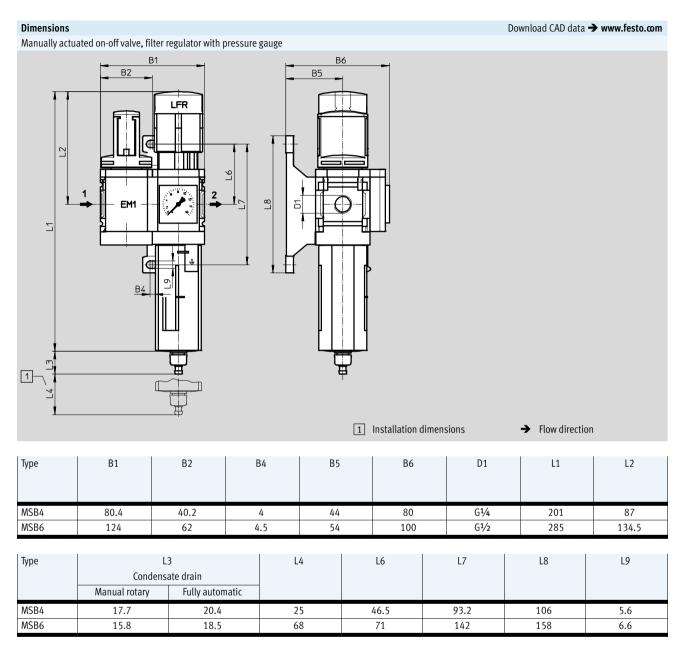




-⊙- New MSB4/6-...J120

Service unit combinations MSB4/MSB6, MS series Technical data – Combination 2





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



Service unit combinations MSB4/MSB6, MS series Technical data – Combination 2

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★ Core product range

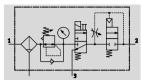
| Ordering data | | | | | | | |
|---|------------|------------------|--------------------------|------------------|-------------------|--|--|
| Size | Connection | Condensate drain | Grade of filtration [µm] | Part No. | Туре | | |
| Pressure regulation range 0.5 12 bar, pressure gauge with outer scale in 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 | a | | | | | |
|---------------|-------------------------------|---------------------------------|-------------------------------------|----------|---------------------|-----|
| Size | Connection | Condensate drain | Grade of filtration [µm] | Part No. | Туре | |
| Pressure regu | ılation range 0.5 7 bar | , pressure gauge with outer so | ale in MPa | | | |
| MSB4 | G1/4 | Manual rotary | 40 | 8042668 | MSB4-1/4:C3:J120-WP | .0. |
| MSB6 | G1/2 | Manual rotary | 40 | 8042672 | MSB6-1/2:C3:J120-WP | .0. |
| MSB4 | G ¹ / ₄ | Manual rotary | 5 | 542304 | MSB4-1/4:C3J3-WP | |
| Pressure regu | ulation range 0.5 12 ba | ar, pressure gauge with outer s | scale in bar and inner scale in psi | | | |
| | | Fully automatic | 40 | 542298 | MSB4-1/4:C3J2-WP | |
| | | | 5 | 542310 | MSB4-1/4:C3J4-WP | |
| MSB6 | G ¹ / 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 | |

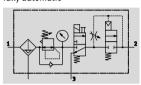


Technical data - Combination 3

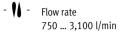
Function With condensate drain manual rotary

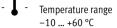


With condensate drain fully automatic



- 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





Pressure regulation

range 4 ... 12 bar

- www.festo.com



- 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 supply pressure is closed, quick venting ensures rapid pressure reduction

| General technical data | | | |
|---------------------------------|--|-----------------|--|
| Size | MSB4 | MSB6 | |
| Pneumatic connection 1, 2, 3 | G ¹ / ₄ | G1/2 | |
| Regulating function | on Output pressure constant, with primary pressure compensation, with return flow function, with secondary venti | | |
| Type of mounting | Via accessories | | |
| Assembly position | Vertical ±5° | | |
| Grade of filtration [µm] | 40 | | |
| Air purity class at the output | Compressed air in accordance with 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, lockable with accessories | | |
| Pressure regulation range [bar] | 4 12 | | |
| Pressure indicator | r With pressure gauge | | |
| Coil characteristics | 24 V DC: 1.5 W | 24 V DC: 1.5 W | |

 $[\]mid$ Note: This product conforms to ISO 1179-1 and to ISO 228-1

| Standard nominal flow rate qnN [l/min] | | | | |
|--|------|------|-------|--|
| Size | | MSB4 | MSB6 | |
| Grade of filtration 4 | 0 μm | 750 | 3,100 | |

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



Technical data - Combination 3

| Operating and environmen | tal condition | S | | |
|-----------------------------|-------------------|--|----------------------|---|
| Condensate drain | | Manual rotary | | Fully automatic |
| Size | | MSB4 MSB6 | | MSB6 |
| Operating pressure | [bar] | 4.5 14 | 4.5 18 | 4.5 12 |
| Operating medium | | Compressed air in accordance | with ISO 8573-1:2010 | Compressed air in accordance with ISO 8573-1:2010 |
| | | [-:4:-] | | [7:4:-] |
| | | Inert gases | | |
| Note on operating/pilot med | lium | Operation with lubricated medium 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 | CRC ¹⁾ | 2 | | |

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

Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

| Weights [g] | | | | |
|--------------------------|-------|-------|--|--|
| Size | MSB4 | MSB6 | | |
| Service unit combination | 1,600 | 2,400 | | |
| Mounting bracket | 40 | 76 | | |



Note

Materials → Technical data of the individual devices

Standard flow rate qn as a function of output pressure p2

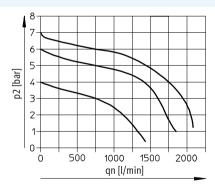
Pressure regulation range

Grade of filtration 40 μm

4 ... 12 bar

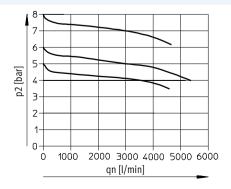
MSB4-1/4

Primary pressure p1 = 10 bar



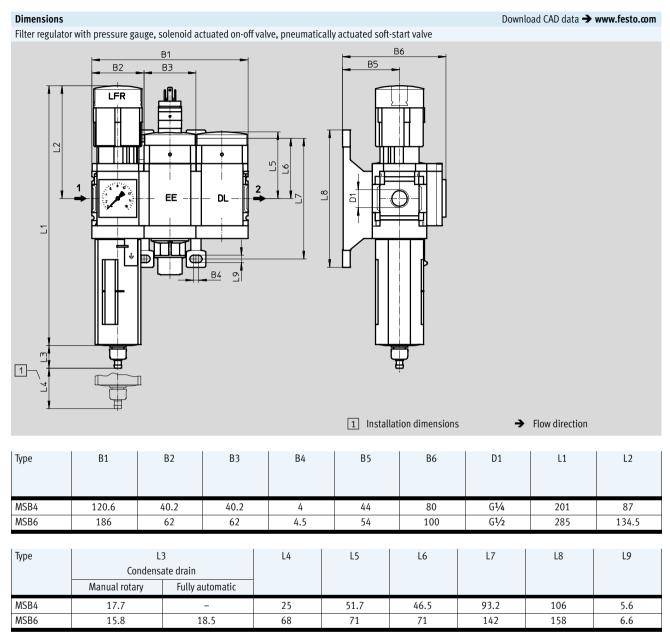
MSB6-1/2

Primary pressure p1 = 10 bar



Service unit combinations MSB4/MSB6, MS series Technical data – Combination 3





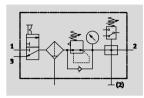
Note: This product conforms to ISO 1179-1 and to ISO 228-1

| Ordering data | | | | | | |
|---|-------------------------------|------------------|--------------------------|----------|--------------------|--|
| Size | Connection | Condensate drain | Grade of filtration [µm] | Part No. | Туре | |
| Pressure regulation range 4 12 bar, pressure gauge with outer scale in bar and inner scale in psi | | | | | | |
| MSB4 | G1/4 | Manual rotary | 40 | 531101 | MSB4-1/4:J1D1A1-WP | |
| MSB6 | G ¹ / ₂ | Manual rotary | 40 | 530222 | MSB6-1/2:J1D1A1-WP | |
| | | Fully automatic | 40 | 530224 | MSB6-1/2:J2D1A1-WP | |

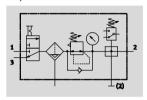
FESTO

Technical data - Combination 4

Function
With condensate drain,
manual rotary



With condensate drain, fully automatic



- Manually operated on-off valve MS...-EM1
- Filter regulator MS...-LFR with pressure gauge



Flow rate 1,300 ... 5,300 l/min



Temperature range −10 ... +60 °C



Pressure regulation range 0.5 ... 12 bar



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- For filtered and unlubricated compressed air supply
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range
- Electrical pressure monitoring with adjustable switching pressure

- Branching module MS...-FRM-Y with pressure switch or MS...-FRM-AD7 with pressure sensor for displaying output pressure via operational status indicator
- Mounting bracket MS...-WP

| General technical data | | | | | | |
|---------------------------------|---|-------------------------------|-----------------------------------|-----------------|--|--|
| Size | MSB4 | MSB4 | | | | |
| Branching module with | Pressure switch | Pressure sensor | Pressure switch | Pressure sensor | | |
| Pneumatic connection 1, 2, 3 | G1/4 | | G½ | | | |
| Regulator function | Output pressure constant, wi | th primary pressure compensat | ion, with return flow, with secor | ndary venting | | |
| Type of mounting | Via accessories | | | | | |
| Mounting position | Vertical ±5° | Vertical ±5° | | | | |
| Grade of filtration [µm] | 40 | | | | | |
| Air purity class at the output | Compressed air according to ISO 8573-1:2010 [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 | - | | |
| Actuation security | Rotary knob with detent, can be locked 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 displaying output pressure | | | | | |

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

| Standard nominal flow rate qnN [l/min] | | | | | | |
|--|------------|-----------------|-----------------|-----------------|-----------------|--|
| Size | | MSB4 | | MSB6 | | |
| Branching module with | | Pressure switch | Pressure sensor | Pressure switch | Pressure sensor | |
| Pressure regulation range 0.5 7 bar | | | | | | |
| Grade of filtration | 40 μm | - | 1,750 | - | 5,300 | |
| | | | | | | |
| Pressure regulation range | 0.5 10 bar | | | | | |
| Grade of filtration | 40 μm | - | 1,600 | - | 4,500 | |
| | | | | | | |
| Pressure regulation range | 0.5 12 bar | | | | | |
| Grade of filtration | 40 μm | 1,300 | - | 4,500 | - | |

 $^{\|\}cdot\|$ 125 l/min must be available for the fully automatic condensate drain to close correctly.

FESTO

Technical data - Combination 4

| Operating and environment | al condition | S | | | | | |
|----------------------------|-------------------|--|-----------------|---------------|------------|-----------------|-----------------|
| Condensate drain | | Manual rotary | Manual rotary | | | Fully automatic | |
| Size | Size MSB4 | | | MSB6 | | MSB4 | MSB6 |
| Branching module with | | Pressure | Pressure | Pressure | Pressure | Pressure switch | Pressure switch |
| | | switch | sensor | switch | sensor | | |
| Operating pressure | [bar] | 0.8 14 | | 0.8 18 | | 2 12 | 2 12 |
| Operating medium | | Compressed a | ir according to | ISO 8573-1:20 | 10 [7:4:4] | | |
| | | Inert gases | | | | | |
| Note on operating/ | | Lubricated operation possible (in which case lubricated operation will always be required) | | | | | |
| pilot medium | | | | | | | |
| 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 | | | | • | |

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

Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

| Weight [g] | | | | |
|--------------------------|-------|-------|--|--|
| Size | MSB4 | MSB6 | | |
| Service unit combination | 1,500 | 2,000 | | |
| Mounting bracket | 40 | 76 | | |



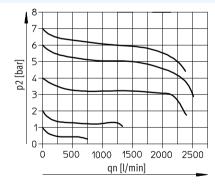
Note

Materials → Technical data of the individual devices

Standard flow rate qn as a function of output pressure p2

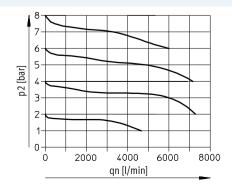
Pressure regulation range 0.5 ... 12 bar $\,$ Grade of filtration 40 μm MSB4-1/4

Primary pressure p1 = 10 bar



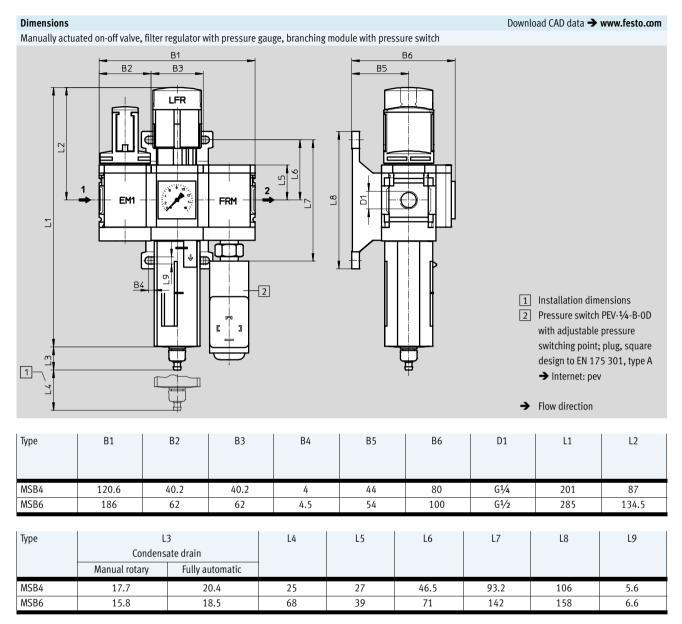
MSB6-1/2

Primary pressure p1 = 10 bar



FESTO

Technical data - Combination 4



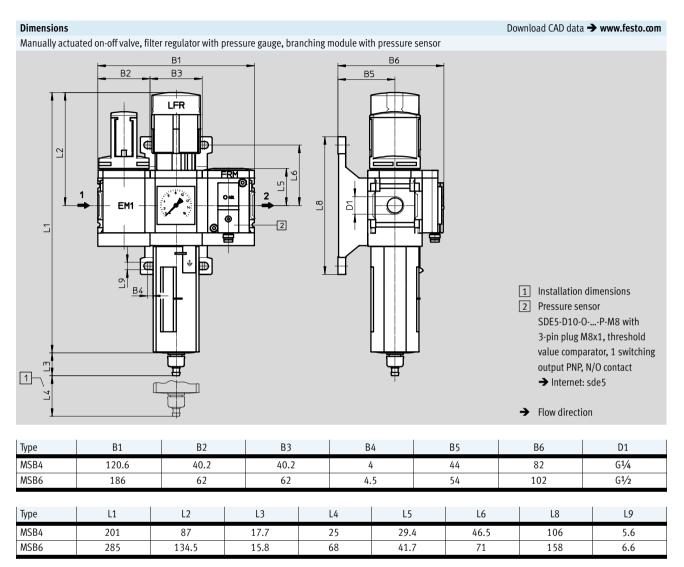
 $^{\|\}cdot\|$ Note: This product conforms to ISO 1179-1 and to ISO 228-1

New MSB4/6-...J120

Service unit combinations MSB4/MSB6, MS series

FESTO

Technical data - Combination 4



 $[\]cdot\, |\!| \,\cdot\, \,$ Note: This product conforms to ISO 1179-1 and to ISO 228-1



Service unit combinations MSB4/MSB6, MS series Technical data – Combination 4

FESTO

★ Core product range

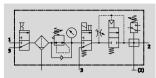
| Ordering data | | | | | | |
|--|------------|------------------|--------------------------|------------------|-----------------------|--|
| Size | Connection | Condensate drain | Grade of filtration [µm] | Part No. | Туре | |
| Pressure regulation range 0.5 10 bar, pressure gauge with outer scale in 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 dat | a | | | | | |
|---------------|-------------------------------|---------------------------------|---|-------------------|-------------------------|-----|
| Size | Connection | Condensate drain | Grade of filtration [µm] | Part No. | Туре | |
| Pressure regi | ulation range 0.5 7 bar | , pressure gauge with outer sc | ale in MPa, branching module with pres | sure sensor | | |
| MSB4 | G1/4 | Manual rotary | 40 | 8042667 | MSB4-1/4:C3:J120:F12-WP | .0. |
| MSB6 | G ¹ / ₂ | Manual rotary | 40 | 8042671 | MSB6-1/2:C3:J120:F12-WP | .0. |
| _ | | | | | | |
| Pressure regi | ulation range 0.5 12 ba | ar, pressure gauge with outer s | cale in bar and inner scale in psi, brand | ching module with | pressure switch | |
| MSB4 | G1/4 | Manual rotary | 40 | 542294 | MSB4-1/4:C3J1F3-WP | |
| | | Fully automatic | 40 | 542300 | MSB4-1/4:C3J2F3-WP | |
| MSB6 | G ¹ / ₂ | Manual rotary | 40 | 542270 | MSB6-1/2:C3J1F3-WP | |
| | | Fully automatic | 40 | 542276 | MSB6-1/2:C3J2F3-WP | |

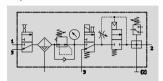


Technical data - Combination 5

Function With condensate drain manual rotary



With condensate drain fully automatic



- On-off valve MS...-EM1 manually actuated



Flow rate 750 ... 3,100 l/min



Temperature range -10 ... +60 °C



Pressure regulation

4 ... 12 bar



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- For filtered and unlubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation
- 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

| | mandally actuated |
|---|-------------------------------|
| • | Filter regulator MSLFR-D7 wit |
| | pressure gauge |

- On-off valve MS...-EE-V24 solenoid actuated
- Soft-start valve MS...-DL pneumatically actuated
- Branching module MS...-FRM-Y with pressure switch without dis-
- Mounting bracket MS...-WP

| General technical data | | | |
|--------------------------------------|---|---|--|
| Size | MSB4 | MSB6 | |
| Pneumatic connection 1, 2, 3 | G1/4 | G ¹ / ₂ | |
| Regulating function | Output pressure constant, with primary pressure compensati | on, with return flow function, with secondary venting | |
| Type of mounting | Via accessories | | |
| Assembly position | Vertical ±5° | | |
| Grade of filtration [µm] | - | 5 | |
| | 40 | | |
| Air purity class at the output | Compressed air in accordance with ISO 8573-1:2010 [6:4:4] (grade of filtration 5 μm) | | |
| | Compressed air in accordance with 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, lockable with accessories | | |
| Pressure regulation range [bar] 4 12 | | | |
| Pressure indicator | With pressure gauge | | |
| Coil characteristics | 24 V DC: 1.5 W | 24 V DC: 1.5 W | |

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

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

 $[\]parallel$ 125 l/min must be available for the fully automatic condensate drain to close correctly.



Technical data – Combination 5

| Condensate drain | | Manual rotary | Manual rotary | | | | |
|-----------------------------|-------------------|--|---|-------------------------|--------|--|--|
| Size | | MSB4 | MSB6 | Fully automatic MSB4 | MSB6 | | |
| Operating pressure | [bar] | 4.5 14 | 4.5 18 | 4.5 12 | 4.5 12 | | |
| Operating medium | | Compressed air in a | Compressed air in accordance with ISO 8573-1:2010 [7:4:4] | | | | |
| | | Inert gases | | | | | |
| Note on operating/pilot med | dium | Operation with lubricated medium 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 | | | |
| Corrosion resistance | CRC ¹⁾ | 2 | | • | | | |

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

Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

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



Standard flow rate qn as a function of output pressure p2

Pressure regulation range

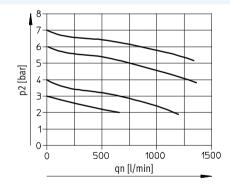
Grade of filtration 5 µm

4 ... 12 bar

MSB4-1/4

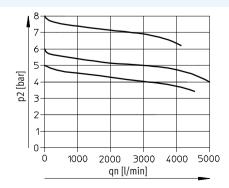
Primary pressure p1 = 10 bar

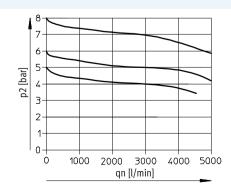
Grade of filtration 40 µm



MSB6-1/2

Primary pressure p1 = 10 bar





Service unit combinations MSB4/MSB6, MS series Technical data – Combination 5



Download CAD data → www.festo.com **Dimensions** Manually actuated on-off valve, filter regulator with pressure gauge, solenoid actuated on-off valve, pneumatically actuated soft-start valve, branching module with pressure switch В6 ВЗ B2 В2 B5 LFR 7 L8 EE DL FRM Į [∰ 1 Installation dimensions → Flow direction Туре В1 В2 В3 В4 В5 В6 D1 L1 L2 MSB4 201 40.2 80.4 201 44 80 G1/4 87 4 MSB6 310 124 4.5 54 100 G1/2 285 134.5 62

| Туре | L3 | | L4 | L5 | L6 | L7 | L8 | L9 |
|------|------------------|-----------------|----|----|------|------|-----|-----|
| | Condensate drain | | | | | | | |
| | Manual rotary | Fully automatic | | | | | | |
| MSB4 | 17.7 | 20.4 | 25 | 27 | 46.5 | 93.2 | 106 | 5.6 |
| MSB6 | 15.8 | 18.5 | 68 | 39 | 71 | 142 | 158 | 6.6 |

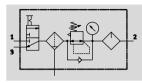
Note: This product conforms to ISO 1179-1 and to ISO 228-1

| Ordering data | Ordering data | | | | | | | |
|---------------------|-------------------------------|------------------------------------|--------------------------|----------|------------------------|--|--|--|
| Size | Connection | Condensate drain | Grade of filtration [µm] | Part No. | Туре | | | |
| Pressure regulation | range 4 12 bar, pre | ssure gauge with outer scale in ba | r 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 | G ¹ / 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 | | | |

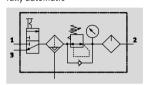


Technical data – Combination 6

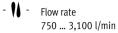
Function
With condensate drain
manual rotary

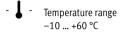


With condensate drain fully automatic



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





Pressure regulation range

1 ... 12 bar





- For filtered and lubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range

| General technical data | | | |
|---------------------------------|---|--|--|
| Size | MSB4 | MSB6 | |
| Pneumatic connection 1, 2, 3 | G1/4 | G1/2 | |
| Regulating function | Output pressure constant, with primary pressure compensat | ion, with return flow function, with secondary venting | |
| Type of mounting | Via accessories | | |
| Assembly position | Vertical ±5° | | |
| Grade of filtration [µm] | 40 | | |
| Air purity class at the output | Compressed air in accordance with 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, lockable with accessories | | |
| Pressure regulation range [bar] | 1 12 | | |
| Pressure indicator | With pressure gauge | | |

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

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

 $[\]cdot$ | \cdot 125 l/min must be available for the fully automatic condensate drain to close correctly.



Technical data – Combination 6

| Operating and environmental conditions | | | | | | |
|--|-------------------|--|------------------------------|-----------------|--|--|
| 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 in accordance | with ISO 8573-1:2010 [7:4:4] | ĺ | | |
| | | Inert gases | | | | |
| Note on operating/pilot med | lium | Operation with lubricated medium 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 | CRC ¹⁾ | 2 | | | | |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

| Weights [g] | | | | | |
|--------------------------|-------|-------|--|--|--|
| Size | MSB4 | MSB6 | | | |
| Service unit combination | 1,500 | 1,750 | | | |
| Mounting bracket | 40 | 76 | | | |



individual devices

Materials → Technical data of the

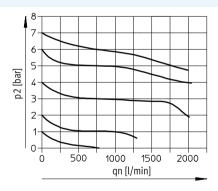
Standard flow rate qn as a function of output pressure p2

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

Grade of filtration 40 μm

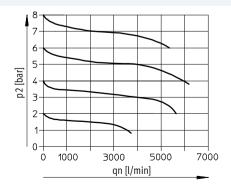
Grade of filtration 5 µm

Primary pressure p1 = 10 bar



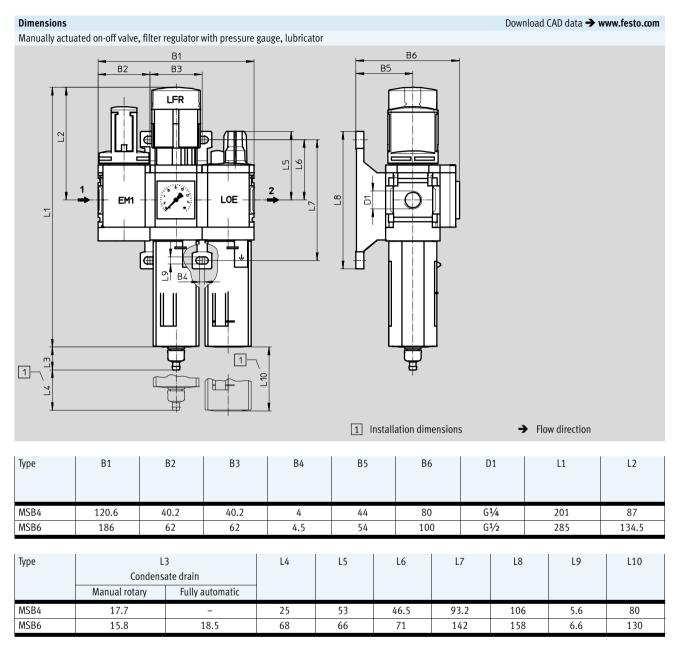
MSB6-1/2

Primary pressure p1 = 10 bar





Technical data – Combination 6



^{· ♦ ·} Note: This product conforms to ISO 1179-1 and to ISO 228-1

| Ordering data | | | | | | |
|---------------------|---|------------------|--------------------------|----------|--------------------|--|
| Size | Connection | Condensate drain | Grade of filtration [µm] | Part No. | Туре | |
| Pressure regulation | 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 | G ¹ / ₂ | Manual rotary | 40 | 542272 | MSB6-1/2:C3J1M1-WP | |
| | | Fully automatic | 40 | 542278 | MSB6-1/2:C3J2M1-WP | |

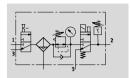
- New MSB4/6-...J120

Service unit combinations MSB4/MSB6, MS series

FESTO

Technical data – Combination 7

Function
With condensate drain,
manual rotary



- Manually operated on-off valve MS...-EM1
- Filter regulator MS...-LFR with pressure gauge
- Solenoid actuated on-off valve MS...-EE-10V24P-AD7, with pressure sensor for displaying output pressure via operational status indicator
- Mounting bracket MS...-WP



Flow rate 1,400 ... 4,400 l/min





Pressure regulation range 0.5 ... 10 bar



- For filtered and unlubricated compressed air supply
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range
- When the supply pressure is closed, quick venting ensures rapid pressure reduction
- Electrical pressure monitoring with adjustable switching pressure

| General technical data | | | | |
|---------------------------------|---|--|--|--|
| Size | MSB4 | MSB6 | | |
| Pneumatic connection 1, 2, 3 | G ¹ / ₄ | G ¹ / ₂ | | |
| Regulator function | Output pressure constant, with primary pressure compensati | on, with return flow, with secondary venting | | |
| Type of mounting | Via accessories | | | |
| Mounting position | Vertical ±5° | | | |
| Grade of filtration [µm] | 40 | | | |
| Air purity class at the output | Compressed air according to ISO 8573-1:2010 [7:4:4] | | | |
| Bowl guard | Plastic bowl guard | | | |
| Condensate drain | Manual rotary | | | |
| Actuation security | Rotary knob with detent, can be locked using accessories | | | |
| Pressure regulation range [bar] | 0.5 7 | | | |
| | 0.5 10 | | | |
| Pressure indication | Via pressure sensor for displaying output pressure via operational status indicator and electrical output | | | |
| | Via pressure gauge for displaying output pressure | | | |

^{· ♦ ·} Note: This product conforms to ISO 1179-1 and to ISO 228-1

| Electrical data – On-off valve MSEE-10V24P-AD7 | | | | | |
|--|--|--|--|--|--|
| Coil characteristics | 24 V DC: 1.8 W; permissible voltage fluctuations –15%/+10% | | | | |
| Electrical connection | M12x1 to IEC 61076-2-101 | | | | |
| Protection class for solenoid coil | IP65 | | | | |
| Duty cycle [%] | 100 | | | | |

Service unit combinations MSB4/MSB6, MS series Technical data – Combination 7

FESTO

| Standard nominal flow rate qnN [l/min] | | | | | | |
|--|-------------------------------------|-------|-------|--|--|--|
| Size | | MSB4 | MSB6 | | | |
| Pressure regulation range 0 | Pressure regulation range 0.5 7 bar | | | | | |
| Grade of filtration | 40 μm | 1,600 | 4,400 | | | |
| | | | | | | |
| Pressure regulation range 0.5 10 bar | | | | | | |
| Grade of filtration | 40 μm | 1,400 | 4,000 | | | |

| Operating and environmental conditions | | | | | | |
|--|-------------------|--|---------------------------------|--|--|--|
| Condensate drain | | Manual rotary | | | | |
| Size | | MSB4 | MSB6 | | | |
| Operating pressure | [bar] | 0.8 14 | 0.8 18 | | | |
| Operating medium | | Compressed air according to ISO 8573-1:2010 [7:4:4] | | | | |
| | | Inert gases | | | | |
| Note on operating/pilot med | ium | Lubricated operation possible (in which case lubricated oper | ration will always be required) | | | |
| Ambient temperature | [°C] | 0 +50 | | | | |
| Temperature of medium | [°C] | 0 +50 | | | | |
| Storage temperature | [°C] | -10 +60 | | | | |
| Corrosion resistance class | CRC ¹⁾ | 2 | | | | |

¹⁾ Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmospheric $sphere\ typical\ for\ industrial\ applications.$

| Weight [g] | | |
|--------------------------|-------|-------|
| Size | MSB4 | MSB6 |
| Service unit combination | 1,600 | 2,000 |
| Mounting bracket | 40 | 76 |

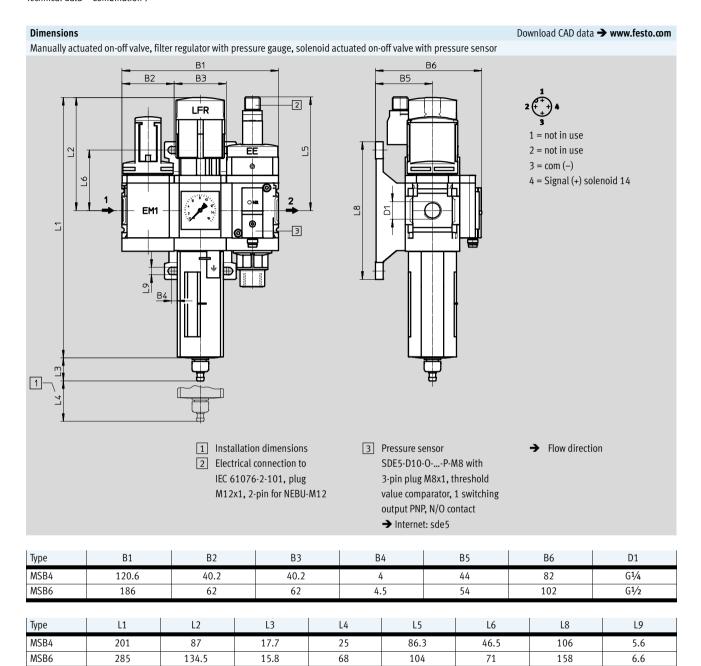


- New MSB4/6-...J120

Service unit combinations MSB4/MSB6, MS series

FESTO

Technical data – Combination 7



^{· ♦ ·} Note: This product conforms to ISO 1179-1 and to ISO 228-1



Service unit combinations MSB4/MSB6, MS series Technical data – Combination 7

FESTO

★ Core product range

| Ordering data | | | | | | | | |
|---|------------|------------------|--------------------------|------------------|-----------------------|--|--|--|
| Size | Connection | Condensate drain | Grade 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 | | | | | | | | |
| 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 | Grade of filtration [µm] | Part No. | Туре | | | |
| Pressure regulation range 0.5 7 bar, pressure gauge with outer scale in MPa | | | | | | | | |
| MSB4 | G1/4 | Manual rotary | 40 | 8042666 | MSB4-1/4:C3:J120:D14-WP | 0. | | |
| MSB6 | G1/2 | Manual rotary | 40 | 8042670 | MSB6-1/2:C3:J120:D14-WP | ю. | | |

Service unit combinations MSB, MS seriesAccessories



| Ordering data – S | | Technical data → Internet: u | | |
|-------------------|----------------|-------------------------------|---------------|---------|
| | Description | Pneumatic connection | Part No. | Туре |
| | for MS4-EM1/EE | G ¹ / ₄ | ★ 6842 | U-1/4-B |
| | for MS6-EM1/EE | G1/2 | ★ 6844 | U-1/2-B |
| | | | | |

| Ordering data – A | Angled socket PEV | Technical data → Internet: pev | | | | |
|-------------------|-------------------|--------------------------------|------------|------------------|----------|--------------------|
| | Description | Operating voltage range | Electrical | Switching status | Part No. | Туре |
| | | | connection | display | | |
| | for PEV-1/4OD | 15 30 V DC | 4-pin | Yellow LED | 164274 | PEV-1/4-WD-LED-24 |
| | | ≤ 230 V AC | 4-pin | Yellow LED | 164275 | PEV-1/4-WD-LED-230 |
| | | ≤ 180 V DC | | | | |

| Ordering data – P | lug socket MSSD | | Technical data → Internet: mssd | | | |
|-------------------|-----------------|-------------------------|---------------------------------|-----------------------------------|-----------------|---------------|
| | Description | Operating voltage range | Electrical connection | Type of mounting cable connection | Part No. | Туре |
| | for PEV-1/4OD | ≤ 250 V AC/DC | 3-pin | Clamping screws | 171157 | MSSD-C-4P |
| | for MS4/6-EE/DE | ≤ 250 V AC/DC | 3-pin | Clamping screws | ★ 151687 | MSSD-EB |
| | | | 4-pin | Insulation displace- | 192745 | MSSD-EB-S-M14 |
| | | | | ment technology | | |

| Ordering data - I | Plug socket with cable I | | Technical data → Internet: kmeb | | | | |
|--|--------------------------|-------------------------|---------------------------------|--------------------------|------------------|-----------------|-------------------|
| | Description | Operating voltage range | Electrical connection | Switching status display | Cable length [m] | Part No. | Туре |
| // | for MS4/6-EE/DE | 24 V DC | 2-pin | LED | 2.5 | 547268 | KMEB-3-24-2,5-LED |
| | | | | | 5 | 547269 | KMEB-3-24-5-LED |
| The same of the sa | | | | - | 2.5 | 547270 | KMEB-3-24-2,5 |
| | | | | | 5 | 547271 | KMEB-3-24-5 |
| | | | 3-pin | LED | 2.5 | ★ 151688 | KMEB-1-24-2,5-LED |
| | | | | | 5 | 151689 | KMEB-1-24-5-LED |
| | | | | | 10 | 193457 | KMEB-1-24-10-LED |
| | | 230 V AC | 3-pin | - | 2.5 | 151690 | KMEB-1-230AC-2,5 |
| | | | | | 5 | 151691 | KMEB-1-230AC-5 |

| Ordering data - II | lluminating seal MEB-LD | Technical data → Internet: meb | | |
|--------------------|--|--------------------------------|----------|----------------|
| | Description | Operating voltage range | Part No. | Туре |
| | for plug socket with cable KMEB and plug | 12 24 V DC | 151717 | MEB-LD-12-24DC |
| | socket MSSD-EB | 230 V DC/AC ±10% | 151718 | MEB-LD-230AC |
| | | | | |

| Ordering data – Padlock LRVS-D | | | | | | |
|--------------------------------|-----------------------------------|------------|----------|--------|--|--|
| | Description | Weight [g] | Part No. | Туре | | |
| | for filter or pressure regulators | 120 | 193786 | LRVS-D | | |

Festo core product range

★ Ready for dispatch from the Festo factory in 24 hours

☆ Ready for dispatch in 5 days maximum from stock

Service unit combinations MSB, MS seriesAccessories



| Ordering data – | Connecting cable NEBU-M8 | | Technical data → Internet: nebu | | |
|--|--------------------------|-----------------|---------------------------------|-----------------|---------------------|
| | Electrical connection | Number of wires | Cable length [m] | Part No. | Туре |
| | M8x1, straight socket | 3 | 2.5 | ★ 541333 | NEBU-M8G3-K-2.5-LE3 |
| O MARINE | | | 5 | ★ 541334 | NEBU-M8G3-K-5-LE3 |
| | M8x1, angled socket | 3 | 2.5 | ★ 541338 | NEBU-M8W3-K-2.5-LE3 |
| State of the state | | | 5 | ★ 541341 | NEBU-M8W3-K-5-LE3 |

| Ordering data – 0 | Connecting cable NEBU-M12 | Technical data → Internet: nebu | | | |
|-------------------|---------------------------|---------------------------------|------------------|----------------------|--|
| | Electrical connection | Number of wires | Cable length [m] | Part No. | Туре |
| N. W. W. | M12x1, straight socket | 4 | 2.5 | ★ 550326 ★ 541328 | NEBU-M12G5-K-2.5-LE4 NEBU-M12G5-K-5-LE4 |
| | M12x1, angled socket | 4 | 2.5 | 550325 | NEBU-M12W5-K-2.5-LE4 |
| | | | 5 | 541329 | NEBU-M12W5-K-5-LE4 |