

## Service unit combinations MSB, MS series

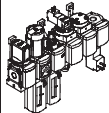
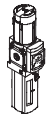
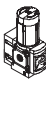
**FESTO**



# Service unit combinations MSB, MS series

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Product range overview – MS series service units

| Type                                                                                                              |                                                                                     | Size |                  | Pneumatic connection in housing | Connecting plate | Pressure regulation range [bar] |                    |                 |                 |                  |                  | Grade of filtration [µm] |   |   |    |  |  |
|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|------------------|---------------------------------|------------------|---------------------------------|--------------------|-----------------|-----------------|------------------|------------------|--------------------------|---|---|----|--|--|
|                                                                                                                   |                                                                                     |      |                  |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
|                                                                                                                   |                                                                                     |      |                  |                                 |                  | 0.05<br>...<br>0.7              | 0.05<br>...<br>2.5 | 0.1<br>...<br>4 | 0.3<br>...<br>7 | 0.1<br>...<br>12 | 0.5<br>...<br>16 | 0.01                     | 1 | 5 | 40 |  |  |
| Code                                                                                                              |                                                                                     |      |                  |                                 | AG...            | D2                              | D4                 | D5              | D6              | D7               | D8               | A                        | B | C | E  |  |  |
| Service units                                                                                                     |                                                                                     |      |                  |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
| MSB-FRC                                                                                                           |    | 4    | G1/8, G1/4       | G1/8, G1/4, G3/8                | –                | –                               | –                  | ■               | ■               | –                | –                | –                        | ■ | ■ |    |  |  |
|                                                                                                                   |                                                                                     | 6    | G1/4, G3/8, G1/2 | G1/4, G3/8, G1/2, G3/4          | –                | –                               | –                  | ■               | ■               | –                | –                | –                        | ■ | ■ |    |  |  |
|                                                                                                                   |                                                                                     | 9    | –                |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
|                                                                                                                   |                                                                                     | 12   | –                |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
| Service unit combinations (further variants can be ordered using the configurator → Internet: msb4, msb6 or msb9) |                                                                                     |      |                  |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
| MSB                                                                                                               |    | 4    | G1/4             | G1/8, G1/4, G3/8                | –                | –                               | –                  | ■               | ■               | –                | –                | –                        | ■ | ■ |    |  |  |
|                                                                                                                   |                                                                                     | 6    | G1/2             | G1/4, G3/8, G1/2, G3/4          | –                | –                               | –                  | ■               | ■               | –                | –                | –                        | ■ | ■ |    |  |  |
|                                                                                                                   |                                                                                     | 9    | –                |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
|                                                                                                                   |                                                                                     | 12   | –                |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
| Individual devices                                                                                                |                                                                                     |      |                  |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
| Filter regulators<br>MS-LFR                                                                                       |  | 4    | G1/8, G1/4       | G1/8, G1/4, G3/8                | –                | –                               | ■                  | ■               | ■               | –                | –                | –                        | ■ | ■ |    |  |  |
|                                                                                                                   |                                                                                     | 6    | G1/4, G3/8, G1/2 | G1/4, G3/8, G1/2, G3/4          | –                | –                               | ■                  | ■               | ■               | ■                | –                | –                        | ■ | ■ |    |  |  |
|                                                                                                                   |                                                                                     | 9    | –                |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
|                                                                                                                   |                                                                                     | 12   | –                | G1, G1¼, G1½, G2                | –                | –                               | –                  | ■               | ■               | ■                | –                | –                        | ■ | ■ |    |  |  |
| Filter<br>MS-LF                                                                                                   |  | 4    | G1/8, G1/4       | G1/8, G1/4, G3/8                | –                | –                               | –                  | –               | –               | –                | –                | –                        | ■ | ■ |    |  |  |
|                                                                                                                   |                                                                                     | 6    | G1/4, G3/8, G1/2 | G1/4, G3/8, G1/2, G3/4          | –                | –                               | –                  | –               | –               | –                | –                | –                        | ■ | ■ |    |  |  |
|                                                                                                                   |                                                                                     | 9    | –                |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
|                                                                                                                   |                                                                                     | 12   | –                | G1, G1¼, G1½, G2                | –                | –                               | –                  | –               | –               | –                | –                | –                        | ■ | ■ |    |  |  |
| Fine and micro filters<br>MS-LFM                                                                                  |  | 4    | G1/8, G1/4       | G1/8, G1/4, G3/8                | –                | –                               | –                  | –               | –               | –                | ■                | ■                        | – | – |    |  |  |
|                                                                                                                   |                                                                                     | 6    | G1/4, G3/8, G1/2 | G1/4, G3/8, G1/2, G3/4          | –                | –                               | –                  | –               | –               | –                | ■                | ■                        | – | – |    |  |  |
|                                                                                                                   |                                                                                     | 9    | G3/4, G1         | G1/2, G3/4, G1, G1¼, G1½        | –                | –                               | –                  | –               | –               | –                | ■                | ■                        | – | – |    |  |  |
|                                                                                                                   |                                                                                     | 12   | –                | G1, G1¼, G1½, G2                | –                | –                               | –                  | –               | –               | –                | ■                | ■                        | – | – |    |  |  |
| Activated carbon filters<br>MS-LFX                                                                                |  | 4    | G1/8, G1/4       | G1/8, G1/4, G3/8                | –                | –                               | –                  | –               | –               | –                | –                | –                        | – | – |    |  |  |
|                                                                                                                   |                                                                                     | 6    | G1/4, G3/8, G1/2 | G1/4, G3/8, G1/2, G3/4          | –                | –                               | –                  | –               | –               | –                | –                | –                        | – | – |    |  |  |
|                                                                                                                   |                                                                                     | 9    | G3/4, G1         | G1/2, G3/4, G1, G1¼, G1½        | –                | –                               | –                  | –               | –               | –                | –                | –                        | – | – |    |  |  |
|                                                                                                                   |                                                                                     | 12   | –                | G1, G1¼, G1½, G2                | –                | –                               | –                  | –               | –               | –                | –                | –                        | – | – |    |  |  |
| Pressure regulators<br>MS-LR                                                                                      |  | 4    | G1/8, G1/4       | G1/8, G1/4, G3/8                | –                | –                               | ■                  | ■               | ■               | –                | –                | –                        | – | – |    |  |  |
|                                                                                                                   |                                                                                     | 6    | G1/4, G3/8, G1/2 | G1/4, G3/8, G1/2, G3/4          | –                | –                               | ■                  | ■               | ■               | ■                | –                | –                        | – | – |    |  |  |
|                                                                                                                   |                                                                                     | 9    | –                |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
|                                                                                                                   |                                                                                     | 12   | –                | G1, G1¼, G1½, G2                | –                | –                               | –                  | ■               | ■               | ■                | –                | –                        | – | – |    |  |  |
| Pressure regulators<br>MS-LRB                                                                                     |  | 4    | G1/4             | G1/8, G1/4, G3/8                | –                | –                               | ■                  | ■               | ■               | –                | –                | –                        | – | – |    |  |  |
|                                                                                                                   |                                                                                     | 6    | G1/2             | G1/4, G3/8, G1/2, G3/4          | –                | –                               | ■                  | ■               | ■               | ■                | –                | –                        | – | – |    |  |  |
|                                                                                                                   |                                                                                     | 9    | –                |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
|                                                                                                                   |                                                                                     | 12   | –                |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
| Precision pressure regulators<br>MS-LRP                                                                           |  | 4    | –                |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
|                                                                                                                   |                                                                                     | 6    | G1/4, G3/8, G1/2 | G1/4, G3/8, G1/2, G3/4          | ■                | ■                               | ■                  | –               | ■               | –                | –                | –                        | – | – |    |  |  |
|                                                                                                                   |                                                                                     | 9    | –                |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
|                                                                                                                   |                                                                                     | 12   | –                |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
| Precision pressure regulators<br>MS-LRPB                                                                          |  | 4    | –                |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
|                                                                                                                   |                                                                                     | 6    | G1/2             | G1/4, G3/8, G1/2, G3/4          | ■                | ■                               | ■                  | –               | ■               | –                | –                | –                        | – | – |    |  |  |
|                                                                                                                   |                                                                                     | 9    | –                |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |
|                                                                                                                   |                                                                                     | 12   | –                |                                 |                  |                                 |                    |                 |                 |                  |                  |                          |   |   |    |  |  |

# Service unit combinations MSB, MS series

Product range overview – MS series service units

| Type                                             | Size | Bowl guard                           |            | Condensate drains |                |                 |                                       | Pressure indicator                   |                              |                                          |                                          |                              | Actuator lock         |                   | Options  |                                   | → Page/<br>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 with display | Rotary knob, lockable | Rotary knob, long | Silencer | Flow direction from right to left |                     |
| Code                                             |      | R                                    | U          | M                 | H              | V               | E ...                                 | VS                                   | AG                           | A8                                       | A4                                       | AD...                        | AS                    | LD                | S        | Z                                 |                     |
| <b>Service units</b>                             |      |                                      |            |                   |                |                 |                                       |                                      |                              |                                          |                                          |                              |                       |                   |          |                                   |                     |
| <b>MSB-FRC</b>                                   | 4    | ■                                    | –          | ■                 | –              | ■               | –                                     | –                                    | ■                            | –                                        | –                                        | –                            | ■                     | –                 | –        | ■                                 | msb4                |
|                                                  | 6    | ■                                    | ■          | ■                 | –              | ■               | –                                     | –                                    | ■                            | –                                        | –                                        | –                            | ■                     | –                 | –        | ■                                 | msb6                |
|                                                  | 9    | –                                    | –          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | –                                 | –                   |
|                                                  | 12   | –                                    | –          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | –                                 | –                   |
| <b>Service unit combinations</b>                 |      |                                      |            |                   |                |                 |                                       |                                      |                              |                                          |                                          |                              |                       |                   |          |                                   |                     |
| <b>MSB</b>                                       | 4    | ■                                    | ■          | ■                 | –              | ■               | –                                     | –                                    | ■                            | –                                        | –                                        | –                            | ■                     | –                 | –        | ■                                 | msb4                |
|                                                  | 6    | ■                                    | ■          | ■                 | –              | ■               | –                                     | –                                    | ■                            | –                                        | –                                        | –                            | ■                     | –                 | –        | ■                                 | msb6                |
|                                                  | 9    | –                                    | –          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | –                                 | –                   |
|                                                  | 12   | –                                    | –          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | –                                 | –                   |
| <b>Individual devices</b>                        |      |                                      |            |                   |                |                 |                                       |                                      |                              |                                          |                                          |                              |                       |                   |          |                                   |                     |
| <b>Filter regulators<br/>MS-LFR</b>              | 4    | ■                                    | ■          | ■                 | ■              | ■               | –                                     | ■                                    | ■                            | ■                                        | ■                                        | ■                            | ■                     | ■                 | –        | ■                                 | ms4-lfr             |
|                                                  | 6    | ■                                    | ■          | ■                 | ■              | ■               | ■                                     | ■                                    | ■                            | –                                        | ■                                        | ■                            | ■                     | ■                 | –        | ■                                 | ms6-lfr             |
|                                                  | 9    | –                                    | –          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | –                                 | –                   |
|                                                  | 12   | –                                    | ■          | ■                 | –              | ■               | ■                                     | ■                                    | ■                            | –                                        | ■                                        | –                            | ■                     | ■                 | –        | ■                                 | ms12-lfr            |
| <b>Filters<br/>MS-LF</b>                         | 4    | ■                                    | ■          | ■                 | ■              | ■               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | ■                                 | ms4-lf              |
|                                                  | 6    | ■                                    | ■          | ■                 | ■              | ■               | ■                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | ■                                 | ms6-lf              |
|                                                  | 9    | –                                    | –          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | –                                 | –                   |
|                                                  | 12   | –                                    | ■          | ■                 | –              | ■               | ■                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | ■                                 | ms12-lf             |
| <b>Fine and micro filters<br/>MS-LFM</b>         | 4    | ■                                    | ■          | ■                 | ■              | ■               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | ■                                 | ms4-lfm             |
|                                                  | 6    | ■                                    | ■          | ■                 | ■              | ■               | ■                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | ■                                 | ms6-lfm             |
|                                                  | 9    | –                                    | ■          | ■                 | –              | ■               | ■                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | ■                                 | ms9-lfm             |
|                                                  | 12   | –                                    | ■          | ■                 | –              | ■               | ■                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | ■                                 | ms12-lfm            |
| <b>Activated carbon filters<br/>MS-LFX</b>       | 4    | ■                                    | ■          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | ■                                 | ms4-lfx             |
|                                                  | 6    | ■                                    | ■          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | ■                                 | ms6-lfx             |
|                                                  | 9    | –                                    | ■          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | ■                                 | ms9-lfx             |
|                                                  | 12   | –                                    | ■          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | ■                                 | ms12-lfx            |
| <b>Pressure regulators<br/>MS-LR</b>             | 4    | –                                    | –          | –                 | –              | –               | –                                     | ■                                    | ■                            | ■                                        | ■                                        | ■                            | ■                     | ■                 | –        | ■                                 | ms4-lr              |
|                                                  | 6    | –                                    | –          | –                 | –              | –               | –                                     | ■                                    | ■                            | –                                        | ■                                        | ■                            | ■                     | ■                 | –        | ■                                 | ms6-lr              |
|                                                  | 9    | –                                    | –          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | –                                 | –                   |
|                                                  | 12   | –                                    | –          | –                 | –              | –               | –                                     | ■                                    | ■                            | –                                        | ■                                        | –                            | ■                     | ■                 | –        | ■                                 | ms12-lr             |
| <b>Pressure regulators<br/>MS-LRB</b>            | 4    | –                                    | –          | –                 | –              | –               | –                                     | ■                                    | ■                            | ■                                        | ■                                        | ■                            | ■                     | ■                 | –        | ■                                 | ms4-lrb             |
|                                                  | 6    | –                                    | –          | –                 | –              | –               | –                                     | ■                                    | ■                            | –                                        | ■                                        | ■                            | ■                     | ■                 | –        | ■                                 | ms6-lrb             |
|                                                  | 9    | –                                    | –          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | –                                 | –                   |
|                                                  | 12   | –                                    | –          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | –                                 | –                   |
| <b>Precision pressure regulators<br/>MS-LRP</b>  | 4    | –                                    | –          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | –                                 | –                   |
|                                                  | 6    | –                                    | –          | –                 | –              | –               | –                                     | ■                                    | –                            | ■                                        | ■                                        | ■                            | ■                     | ■                 | –        | ■                                 | ms6-lrp             |
|                                                  | 9    | –                                    | –          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | –                                 | –                   |
|                                                  | 12   | –                                    | –          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | –                                 | –                   |
| <b>Precision pressure regulators<br/>MS-LRPB</b> | 4    | –                                    | –          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | –                                 | –                   |
|                                                  | 6    | –                                    | –          | –                 | –              | –               | –                                     | ■                                    | –                            | ■                                        | ■                                        | ■                            | ■                     | ■                 | –        | ■                                 | ms6-lrpb            |
|                                                  | 9    | –                                    | –          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | –                                 | –                   |
|                                                  | 12   | –                                    | –          | –                 | –              | –               | –                                     | –                                    | –                            | –                                        | –                                        | –                            | –                     | –                 | –        | –                                 | –                   |

# Service unit combinations MSB, MS series

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Product range overview – MS series service units

| Type                                            | Size                                                                                | Pneumatic connection in housing | Connecting plate                                                                              | Pressure regulation range [bar]                                                                                               |                 |                  |                  | Supply voltage                           |                                           |                                           |                                           |
|-------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|------------------|------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
|                                                 |                                                                                     |                                 |                                                                                               | 0.3<br>...<br>4                                                                                                               | 0.3<br>...<br>7 | 0.5<br>...<br>12 | 0.5<br>...<br>16 | 24 V DC, connection pattern to EN 175301 | 24 V DC, connection pattern M12 to DESINA | 110 V AC, connection pattern to EN 175301 | 230 V AC, connection pattern to EN 175301 |
| Code                                            |                                                                                     |                                 | AG...                                                                                         | D5                                                                                                                            | D6              | D7               | D8               | V24                                      | V24P                                      | V110                                      | V230                                      |
| <b>Individual devices</b>                       |                                                                                     |                                 |                                                                                               |                                                                                                                               |                 |                  |                  |                                          |                                           |                                           |                                           |
| Electrical pressure regulators<br><b>MS-LRE</b> |    | 4                               | –                                                                                             |                                                                                                                               |                 |                  |                  | –                                        | –                                         | –                                         | –                                         |
|                                                 |                                                                                     | 6                               | G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>2</sub> | G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>2</sub> , G <sup>3</sup> / <sub>4</sub> | ■               | ■                | ■                | ■                                        | –                                         | –                                         | –                                         |
|                                                 |                                                                                     | 9                               | –                                                                                             |                                                                                                                               |                 |                  |                  |                                          |                                           |                                           |                                           |
|                                                 |                                                                                     | 12                              | –                                                                                             |                                                                                                                               |                 |                  |                  |                                          |                                           |                                           |                                           |
| Lubricators<br><b>MS-LOE</b>                    |    | 4                               | G <sup>1</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>4</sub>                                 | G <sup>1</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub>                                 | –               | –                | –                | –                                        | –                                         | –                                         | –                                         |
|                                                 |                                                                                     | 6                               | G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>2</sub> | G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>2</sub> , G <sup>3</sup> / <sub>4</sub> | –               | –                | –                | –                                        | –                                         | –                                         | –                                         |
|                                                 |                                                                                     | 9                               | –                                                                                             |                                                                                                                               |                 |                  |                  |                                          |                                           |                                           |                                           |
|                                                 |                                                                                     | 12                              | –                                                                                             | G <sup>1</sup> / <sub>4</sub> , G <sup>1</sup> / <sub>2</sub> , G <sup>3</sup> / <sub>4</sub>                                 | –               | –                | –                | –                                        | –                                         | –                                         | –                                         |
| Electrical on-off valves<br><b>MS-EM(1)</b>     |   | 4                               | G <sup>1</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>4</sub>                                 | G <sup>1</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub>                                 | –               | –                | –                | –                                        | –                                         | –                                         | –                                         |
|                                                 |                                                                                     | 6                               | G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>2</sub> | G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>2</sub> , G <sup>3</sup> / <sub>4</sub> | –               | –                | –                | –                                        | –                                         | –                                         | –                                         |
|                                                 |                                                                                     | 9                               | –                                                                                             |                                                                                                                               |                 |                  |                  |                                          |                                           |                                           |                                           |
|                                                 |                                                                                     | 12                              | –                                                                                             | G <sup>1</sup> / <sub>4</sub> , G <sup>1</sup> / <sub>2</sub> , G <sup>3</sup> / <sub>4</sub>                                 | –               | –                | –                | –                                        | –                                         | –                                         | –                                         |
| Electrical on-off valves<br><b>MS-EE</b>        |  | 4                               | G <sup>1</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>4</sub>                                 | G <sup>1</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub>                                 | –               | –                | –                | –                                        | ■                                         | –                                         | ■                                         |
|                                                 |                                                                                     | 6                               | G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>2</sub> | G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>2</sub> , G <sup>3</sup> / <sub>4</sub> | –               | –                | –                | –                                        | ■                                         | –                                         | ■                                         |
|                                                 |                                                                                     | 9                               | –                                                                                             |                                                                                                                               |                 |                  |                  |                                          |                                           |                                           |                                           |
|                                                 |                                                                                     | 12                              | –                                                                                             | G <sup>1</sup> / <sub>4</sub> , G <sup>1</sup> / <sub>2</sub> , G <sup>3</sup> / <sub>4</sub>                                 | –               | –                | –                | –                                        | ■                                         | ■                                         | ■                                         |
| Electrical soft-start valves<br><b>MS-DL</b>    |  | 4                               | G <sup>1</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>4</sub>                                 | G <sup>1</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub>                                 | –               | –                | –                | –                                        | –                                         | –                                         | –                                         |
|                                                 |                                                                                     | 6                               | G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>2</sub> | G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>2</sub> , G <sup>3</sup> / <sub>4</sub> | –               | –                | –                | –                                        | –                                         | –                                         | –                                         |
|                                                 |                                                                                     | 9                               | –                                                                                             |                                                                                                                               |                 |                  |                  |                                          |                                           |                                           |                                           |
|                                                 |                                                                                     | 12                              | –                                                                                             | G <sup>1</sup> / <sub>4</sub> , G <sup>1</sup> / <sub>2</sub> , G <sup>3</sup> / <sub>4</sub>                                 | –               | –                | –                | –                                        | –                                         | –                                         | –                                         |
| Electrical soft-start valves<br><b>MS-DE</b>    |  | 4                               | G <sup>1</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>4</sub>                                 | G <sup>1</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub>                                 | –               | –                | –                | –                                        | ■                                         | –                                         | ■                                         |
|                                                 |                                                                                     | 6                               | G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>2</sub> | G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>2</sub> , G <sup>3</sup> / <sub>4</sub> | –               | –                | –                | –                                        | ■                                         | –                                         | ■                                         |
|                                                 |                                                                                     | 9                               | –                                                                                             |                                                                                                                               |                 |                  |                  |                                          |                                           |                                           |                                           |
|                                                 |                                                                                     | 12                              | –                                                                                             | G <sup>1</sup> / <sub>4</sub> , G <sup>1</sup> / <sub>2</sub> , G <sup>3</sup> / <sub>4</sub>                                 | –               | –                | –                | –                                        | ■                                         | ■                                         | ■                                         |
| Soft start and exhaust valves<br><b>MS-SV</b>   |  | 4                               | –                                                                                             |                                                                                                                               |                 |                  |                  |                                          |                                           |                                           |                                           |
|                                                 |                                                                                     | 6                               | G <sup>1</sup> / <sub>2</sub>                                                                 | G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>2</sub> , G <sup>3</sup> / <sub>4</sub> | –               | –                | –                | –                                        | ■                                         | –                                         | –                                         |
|                                                 |                                                                                     | 9                               | –                                                                                             |                                                                                                                               |                 |                  |                  |                                          |                                           |                                           |                                           |
|                                                 |                                                                                     | 12                              | –                                                                                             |                                                                                                                               |                 |                  |                  |                                          |                                           |                                           |                                           |
| Membrane air dryers<br><b>MS-LDM1</b>           |  | 4                               | G <sup>1</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>4</sub>                                 | G <sup>1</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub>                                 | –               | –                | –                | –                                        | –                                         | –                                         | –                                         |
|                                                 |                                                                                     | 6                               | G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>2</sub> | G <sup>1</sup> / <sub>4</sub> , G <sup>3</sup> / <sub>8</sub> , G <sup>1</sup> / <sub>2</sub> , G <sup>3</sup> / <sub>4</sub> | –               | –                | –                | –                                        | –                                         | –                                         | –                                         |
|                                                 |                                                                                     | 9                               | –                                                                                             |                                                                                                                               |                 |                  |                  |                                          |                                           |                                           |                                           |
|                                                 |                                                                                     | 12                              | –                                                                                             |                                                                                                                               |                 |                  |                  |                                          |                                           |                                           |                                           |

## Service unit combinations MSB, MS series

Product range overview – MS series service units

| Type                                     | Size | Bowl guard                           |            | Pressure indicator                   |                              |                                          |                                          |                              | Options  |                                   | ➔ Page/<br>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 with display | Silencer | Flow direction from right to left |                     |
|                                          |      |                                      |            |                                      |                              |                                          |                                          |                              |          |                                   |                     |
| Individual devices                       |      |                                      |            |                                      |                              |                                          |                                          |                              |          |                                   |                     |
| Electrical pressure regulators<br>MS-LRE | 4    | -                                    |            |                                      |                              |                                          |                                          |                              |          |                                   | -                   |
|                                          | 6    | -                                    | -          | ■                                    | ■                            | -                                        | ■                                        | -                            | -        | ■                                 | ms6-lre             |
|                                          | 9    | -                                    |            |                                      |                              |                                          |                                          |                              |          |                                   | -                   |
|                                          | 12   | -                                    |            |                                      |                              |                                          |                                          |                              |          |                                   | -                   |
|                                          |      |                                      |            |                                      |                              |                                          |                                          |                              |          |                                   |                     |
| Lubricators<br>MS-LOE                    | 4    | ■                                    | ■          | -                                    | -                            | -                                        | -                                        | -                            | -        | ■                                 | ms4-loe             |
|                                          | 6    | ■                                    | ■          | -                                    | -                            | -                                        | -                                        | -                            | -        | ■                                 | ms6-loe             |
|                                          | 9    | -                                    |            |                                      |                              |                                          |                                          |                              |          |                                   | -                   |
|                                          | 12   | -                                    | ■          | -                                    | -                            | -                                        | -                                        | -                            | -        | ■                                 | ms12-loe            |
|                                          |      |                                      |            |                                      |                              |                                          |                                          |                              |          |                                   |                     |
| Electrical on-off valves<br>MS-EM(1)     | 4    | -                                    | -          | ■                                    | ■                            | ■                                        | ■                                        | ■                            | ■        | ■                                 | ms4-em1             |
|                                          | 6    | -                                    | -          | ■                                    | ■                            | -                                        | ■                                        | ■                            | ■        | ■                                 | ms6-em1             |
|                                          | 9    | -                                    |            |                                      |                              |                                          |                                          |                              |          |                                   | -                   |
|                                          | 12   | -                                    | -          | ■                                    | ■                            | -                                        | ■                                        | -                            | ■        | ■                                 | ms12-em             |
| Electrical on-off valves<br>MS-EE        | 4    | -                                    | -          | ■                                    | ■                            | ■                                        | ■                                        | ■                            | ■        | ■                                 | ms4-ee              |
|                                          | 6    | -                                    | -          | ■                                    | ■                            | -                                        | ■                                        | ■                            | ■        | ■                                 | ms6-ee              |
|                                          | 9    | -                                    |            |                                      |                              |                                          |                                          |                              |          |                                   | -                   |
|                                          | 12   | -                                    | -          | ■                                    | ■                            | -                                        | ■                                        | -                            | ■        | ■                                 | ms12-ee             |
| Electrical soft-start valves<br>MS-DL    | 4    | -                                    | -          | ■                                    | ■                            | ■                                        | ■                                        | ■                            | -        | ■                                 | ms4-dl              |
|                                          | 6    | -                                    | -          | ■                                    | ■                            | -                                        | ■                                        | ■                            | -        | ■                                 | ms6-dl              |
|                                          | 9    | -                                    |            |                                      |                              |                                          |                                          |                              |          |                                   | -                   |
|                                          | 12   | -                                    | -          | ■                                    | ■                            | -                                        | ■                                        | -                            | -        | ■                                 | ms12-dl             |
| Electrical soft-start valves<br>MS-DE    | 4    | -                                    | -          | ■                                    | ■                            | ■                                        | ■                                        | ■                            | -        | ■                                 | ms4-de              |
|                                          | 6    | -                                    | -          | ■                                    | ■                            | -                                        | ■                                        | ■                            | -        | ■                                 | ms6-de              |
|                                          | 9    | -                                    |            |                                      |                              |                                          |                                          |                              |          |                                   | -                   |
|                                          | 12   | -                                    | -          | ■                                    | ■                            | -                                        | ■                                        | -                            | -        | ■                                 | ms12-de             |
| Soft start and exhaust valves<br>MS-SV   | 4    | -                                    |            |                                      |                              |                                          |                                          |                              |          |                                   | -                   |
|                                          | 6    | -                                    | -          | ■                                    | ■                            | -                                        | ■                                        | ■                            | ■        | ■                                 | ms6-sv              |
|                                          | 9    | -                                    |            |                                      |                              |                                          |                                          |                              |          |                                   | -                   |
|                                          | 12   | -                                    |            |                                      |                              |                                          |                                          |                              |          |                                   | -                   |
|                                          |      |                                      |            |                                      |                              |                                          |                                          |                              |          |                                   |                     |
| Membrane air dryers<br>MS-LDM1           | 4    | -                                    | ■          | -                                    | -                            | -                                        | -                                        | -                            | -        | ■                                 | ms4-ldm1            |
|                                          | 6    | -                                    | ■          | -                                    | -                            | -                                        | -                                        | -                            | -        | ■                                 | ms6-ldm1            |
|                                          | 9    | -                                    |            |                                      |                              |                                          |                                          |                              |          |                                   | -                   |
|                                          | 12   | -                                    |            |                                      |                              |                                          |                                          |                              |          |                                   | -                   |

## Service unit combinations MSB, MS series

FESTO

Product range overview – MS series service units

| Type                                | Size                                                                               |    |                  |                        | Pressure regulation range<br>[bar] |                 |                  |                  | Supply voltage                              |                                              |                                              |                                              |  |
|-------------------------------------|------------------------------------------------------------------------------------|----|------------------|------------------------|------------------------------------|-----------------|------------------|------------------|---------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|--|
|                                     |                                                                                    |    |                  |                        | 0.3<br>...<br>4                    | 0.3<br>...<br>7 | 0.5<br>...<br>12 | 0.5<br>...<br>16 | 24 V DC, connection<br>pattern to EN 175301 | 24 V DC, connection<br>pattern M12 to DESINA | 110 V AC, connection<br>pattern to EN 175301 | 230 V AC, connection<br>pattern to EN 175301 |  |
| Code                                |                                                                                    |    | AG...            |                        | D5                                 | D6              | D7               | D8               | V24                                         | V24P                                         | V110                                         | V230                                         |  |
| Individual devices                  |                                                                                    |    |                  |                        |                                    |                 |                  |                  |                                             |                                              |                                              |                                              |  |
| Branching<br>modules<br>MS-FRM      |   | 4  | G1/8, G1/4       | G1/8, G1/4, G3/8       | –                                  | –               | –                | –                | –                                           | –                                            | –                                            | –                                            |  |
|                                     |                                                                                    | 6  | G1/4, G3/8, G1/2 | G1/4, G3/8, G1/2, G3/4 | –                                  | –               | –                | –                | –                                           | –                                            | –                                            | –                                            |  |
|                                     |                                                                                    | 9  | –                |                        |                                    |                 |                  |                  |                                             |                                              |                                              |                                              |  |
|                                     |                                                                                    | 12 | –                | G1, G1¼, G1½, G2       | –                                  | –               | –                | –                | –                                           | –                                            | –                                            | –                                            |  |
| Distributor<br>blocks<br>MS-FRM-FRZ |   | 4  | G1/4             | –                      | –                                  | –               | –                | –                | –                                           | –                                            | –                                            | –                                            |  |
|                                     |                                                                                    | 6  | G1/2             | –                      | –                                  | –               | –                | –                | –                                           | –                                            | –                                            | –                                            |  |
|                                     |                                                                                    | 9  | –                |                        |                                    |                 |                  |                  |                                             |                                              |                                              |                                              |  |
|                                     |                                                                                    | 12 | –                |                        |                                    |                 |                  |                  |                                             |                                              |                                              |                                              |  |
|                                     |                                                                                    |    |                  |                        |                                    |                 |                  |                  |                                             |                                              |                                              |                                              |  |
| Flow sensors<br>MS-SFE              |  | 4  | –                |                        |                                    |                 |                  |                  |                                             |                                              |                                              |                                              |  |
|                                     |                                                                                    | 6  | G1/2             | G1/2                   | –                                  | –               | –                | –                | –                                           | –                                            | –                                            | –                                            |  |
|                                     |                                                                                    | 9  | –                |                        |                                    |                 |                  |                  |                                             |                                              |                                              |                                              |  |
|                                     |                                                                                    | 12 | –                |                        |                                    |                 |                  |                  |                                             |                                              |                                              |                                              |  |

## Service unit combinations MSB, MS series

Product range overview – MS series service units

**FESTO**

| Type                                | Size | Pressure indicator                      |                                 |                                             |                                             |                                 | Switch output |        | Options  |                                      | → Page/<br>Internet |
|-------------------------------------|------|-----------------------------------------|---------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------|---------------|--------|----------|--------------------------------------|---------------------|
|                                     |      | Cover plate (without<br>pressure gauge) | Integrated MS pressure<br>gauge | Adapter plate for EN<br>pressure gauge G1/8 | Adapter plate for EN<br>pressure gauge G1/4 | Pressure sensor with<br>display | 2x PNP        | 2x NPN | Silencer | Flow direction from<br>right to left |                     |
|                                     |      |                                         |                                 |                                             |                                             |                                 |               |        |          |                                      |                     |
|                                     |      |                                         |                                 |                                             |                                             |                                 |               |        |          |                                      |                     |
| VS                                  | AG   | A8                                      | A4                              | AD...                                       | P2                                          | N2                              | S             | Z      |          |                                      |                     |
| Individual devices                  |      |                                         |                                 |                                             |                                             |                                 |               |        |          |                                      |                     |
| Branching<br>modules<br>MS-FRM      | 4    | ■                                       | ■                               | ■                                           | ■                                           | ■                               | -             | -      | -        | ■                                    | ms4-frm             |
|                                     | 6    | ■                                       | ■                               | -                                           | ■                                           | ■                               | -             | -      | -        | ■                                    | ms6-frm             |
|                                     | 9    | -                                       |                                 |                                             |                                             |                                 |               |        |          |                                      | -                   |
|                                     | 12   | ■                                       | -                               | -                                           | -                                           | -                               | -             | -      | -        | -                                    | ms12-frm            |
| Distributor<br>blocks<br>MS-FRM-FRZ | 4    | -                                       | -                               | -                                           | -                                           | -                               | -             | -      | -        | -                                    | ms4-frm             |
|                                     | 6    | -                                       | -                               | -                                           | -                                           | -                               | -             | -      | -        | -                                    | ms6-frm             |
|                                     | 9    | -                                       |                                 |                                             |                                             |                                 |               |        |          |                                      | -                   |
|                                     | 12   | -                                       |                                 |                                             |                                             |                                 |               |        |          |                                      | -                   |
|                                     |      |                                         |                                 |                                             |                                             |                                 |               |        |          |                                      |                     |
| Flow sensors<br>MS-SFE              | 4    | -                                       |                                 |                                             |                                             |                                 |               |        |          |                                      | -                   |
|                                     | 6    | -                                       | -                               | -                                           | -                                           | -                               | ■             | ■      | -        | ■ <sup>1)</sup>                      | ms6-sfe             |
|                                     | 9    | -                                       |                                 |                                             |                                             |                                 |               |        |          |                                      | -                   |
|                                     | 12   | -                                       |                                 |                                             |                                             |                                 |               |        |          |                                      | -                   |

1) Can only be ordered using the configurator → Internet: ms6-sfe