

# MF 900 - 4300

## Media filters

The MF media filter with Clack control valve is used for the treatment of drinking water, well water and process water. Depending on the chosen filter medium, contaminants such as suspended matter, particles, iron, manganese or organic matter can be removed from the water. This is an automatic single filter system with time-controlled backwashing with raw water. Downstream equipment can be switched off via a potential-free contact during backwashing. The filter medium is not included and must be ordered separately.

### BENEFITS

- Rugged, easy to use controller
- Reliable, fully-automatic operation
- Easy, quick maintenance

### APPLICATIONS

- Ideal for treatment of city, well and service water and as pre-treatment upstream of reverse osmosis
- Depending on the filter medium, suitable for the removal of suspended solids and particles, iron, manganese, free chlorine and organics



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### DESCRIPTION

#### Media filter

- GRP pressure tank with internals (central tube and lower nozzle)
- Central control valve made of Noryl with microprocessor controller, display and five keys
- Hand valve for setting the backwash speed
- Filter medium is not included in the scope of delivery - must be ordered separately and is delivered in bags (filling by customer)

#### Controller Clack CI

- Start time and duration of backwash as well as time interval between backwashes are adjustable
- Parameter storage of the setting data in case of power failure approx. 6 months via buffer battery
- Signal can be emitted via a floating contact during backwashing
- Keys can be locked to prevent unwanted access

#### Available filter media and recommended filter velocities

- Gravel for removal of suspended solids and particles (20 m/h)
- Multimedia for removal of suspended solids and fine particles (20 m/h)
- AFM for removal of suspended solids and finest particles (20 m/h)
- Birm for iron removal (12 m/h)
- Filox for manganese removal (8 m/h)
- Activated carbon for removal of free chlorine and organic matter (20 m/h)

#### Optionally available

- Operating valve BV 1 for MF 900 - 2300 (315 112)
- Operating valve BV 2 for MF 4300 (366 015)

### CONDITIONS OF USE

During backwashing, a reduced amount of unfiltered water is available. When switching the main control valve, no water is available for a short time with sizes 900 - 2300. If water is to be supplied continuously, the installation of a BP bypass valve is necessary. If only filtered water is to be supplied, the installation of a service valve BV is necessary. If the filtrate line is unpressurised, this is also necessary to ensure sufficient backwashing. If negative pressure can occur in the filter (e.g. during operation before a pressure increase or RO), the installation of an aeration and deaeration valve BEV is necessary.

### TECHNICAL DATA OF SERIES

|                       |               |
|-----------------------|---------------|
| Controller            | Clack CI      |
| Operating pressure    | 1.5 – 8.0 bar |
| Pressure fluctuation  | ± 0.5 bar     |
| Operating temperature | 5 – 35 °C     |

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|                                   |                                    |
|-----------------------------------|------------------------------------|
| Filter velocity                   | max. 20 m/h                        |
| Filter velocity iron removal      | 12 m/h                             |
| Filter velocity manganese removal | 8 m/h                              |
| Backwash velocity                 | 25 - 40 m/h (depending on filling) |
| Backwash time                     | 10 min                             |

| Product name   | Flow rate max.<br>m <sup>3</sup> /h at 20 m/h | Hydraulic connection<br>RW / Filtrate / WW | Dimensions in mm<br>W x D x H | Item number |
|----------------|---|--|-------------------------------|-------------|
| <b>MF 900</b>  | 0.9   | DN 25 / DN 25 / nozzle Ø 20 mm             | 300 x 370 x 1,630             | 315 141     |
| <b>MF 1600</b> | 1.6   | DN 25 / DN 25 / nozzle Ø 20 mm             | 360 x 390 x 1,640             | 315 142     |
| <b>MF 2300</b> | 2.3   | DN 32 / DN 32 / nozzle Ø 20 mm             | 420 x 420 x 1,920             | 315 143     |
| <b>MF 4300</b> | 4.3   | DN 40 / DN 40 / DN 32                      | 570 x 570 x 1,990             | 315 144     |