



## Back-flushing filter with pr. regulator for drinking water

**100.52 to 100.54**

**R 3/4 to R 1 1/4**

**2.0 to 6.0 bar  
from 90 µm to 110 µm**

**DVGW**

### General

- Soundproofing pressure regulator (DIN 1988)
- Manual back-flushing filter for drinking water and domestic water
- DIN / DVGW-tested
- Lower mesh width 90 µm
- Upper mesh width 110 µm
- KTW recommendations complied with

### Characteristics

| Type Ident No.                          | 100.52<br>101423   | 100.53<br>101424 | 100.54<br>101425 |
|---|--|------------------|------------------|
| Pipe connection                         | R 3/4  | R 1              | R 1 1/4          |
| Type of constr. (filter)<br>(regulator) | Filter housing with filter candle<br>Diaphragm pressure regulator with pressure-reduced, single-seated valve |                  |                  |
| Mounting position                       | Horizontal or vertical pipes   |                  |                  |
| Medium                                  | Drinking water acc. to drinking water regulations  |                  |                  |
| Input pressure                          | max. 16 bar  |                  |                  |
| Control range                           | 2.0 to 6.0 bar   |                  |                  |
| Water temperature                       | +5 °C to +30 °C  |                  |                  |
| Ambient temperature                     | +5 °C to +40 °C  |                  |                  |

### Materials

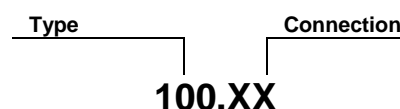
| Part                      | Material              |
|---------------------------|-----------------------|
| Spring bonnet (regulator) | PA (fibre-reinforced) |
| Housing                   | Brass                 |
| Pipe screw fitting        | Brass                 |
| Filter tank               | Plastic (PVC)         |
| Fine strainer             | POM / polyester       |
| Seals                     | EPDM                  |
| Drain section             | PP                    |

### Installation

- Provide shut-off valves at both ends
- Easy accessibility simplifies regular servicing
- Installation location must be protected against frost and UV radiation
- Avoid contact with chemicals, dyes, solvents and mineral oil products
- Extreme pressure surges may damage the equipment

→ Please heed the instructions contained in the installation and operating manual

### Ordering information



| Connection |                   |
|------------|-------------------|
| XX=        | Connecting thread |
| 52         | R 3/4             |
| 53         | R 1               |
| 54         | R 1 1/4           |

### Applications

This back-flushing filter is used to filter drinking and domestic water in addition to well, process and cooling water for once-through cooling systems.

The built-in filter cartridge removes foreign bodies (rust particles, chips, sand, hemp residues, etc.) and protects water-carrying parts of the system on the downstream side.

The integrated pressure regulator adjusts the pressure of the domestic water supply to a settable, reduced value, depending on local requirements.

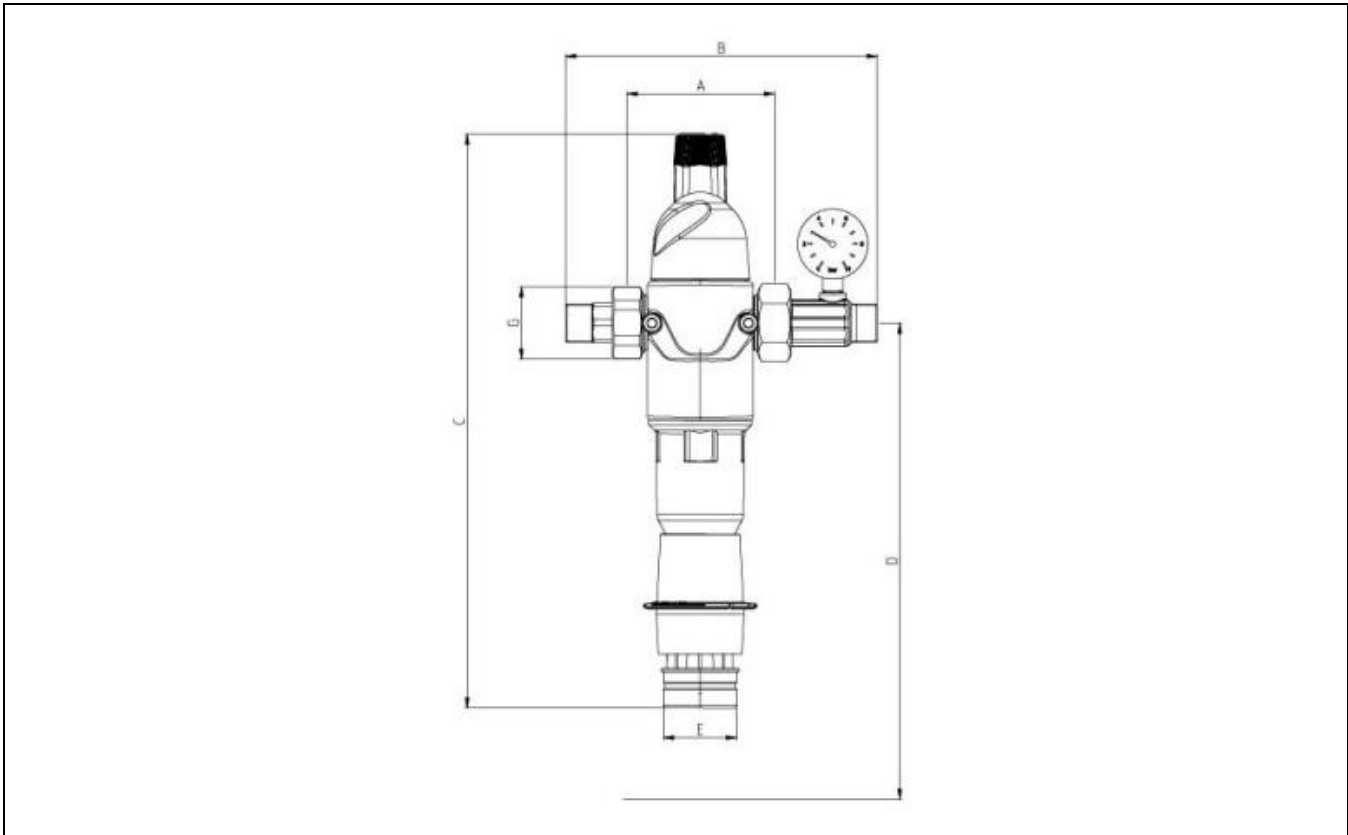
**Not suitable for:**

- Chemically treated water cycles
- Oils, greases, solvents, soaps and other lubricating media

### Accessories

| Designation   | Article No. / Ident No. |
|---------------|-------------------------|
| Filter insert | 100/421 / 101412        |
| Plastic tank  | 100/422 / 101413        |

**Dimensions**



**Dimensions [mm]**

| Article No. | A   | B   | C   | D   | E  | G       |
|-------------|-----|-----|-----|-----|----|---------|
| 100.52      | 100 | 184 | 393 | 350 | 50 | G 1 1/4 |
| 100.53      | 100 | 184 | 393 | 350 | 50 | G 1 1/4 |
| 100.54      | 100 | 220 | 393 | 350 | 50 | G 1 1/2 |

**Flow rates**

| Article No.                                      | 100.52 | 100.53 | 100.54 |
|--|--------|--------|--------|
| Flow rate [m <sup>3</sup> /h] $\Delta p$ 0.2 bar | 1.4    | 1.4    | 1.3    |

**Maintenance**

|           | Activity                                 | Interval   | Responsible            |
|-----------|--|--|------------------------|
| Servicing | Clean the filter candle by back-flushing | Once every two months or more often if necessary | Plumbing firm<br>Owner |