



## Braukmann VF04

### Filling valve

for closed heating systems

#### APPLICATION

The VF04 filling valve permits simple and safe filling or refilling of a system.

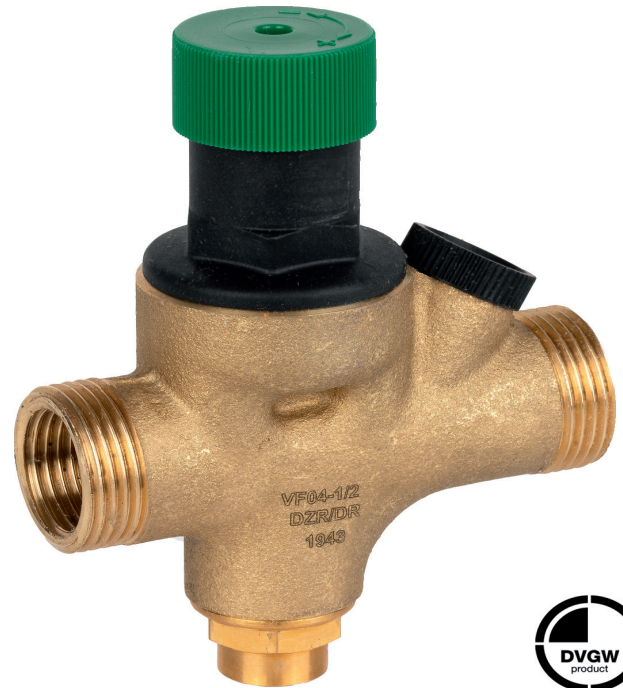
A pressure reducing valve, a check valve and a shut-off facility are combined in one unit. The pressure gauge connection enables fitting of a pressure gauge (available as an accessory) to provide accurate checking of the pressure of a system after filling.

#### APPROVALS

- DIN/DVGW-certified check valve

#### SPECIAL FEATURES

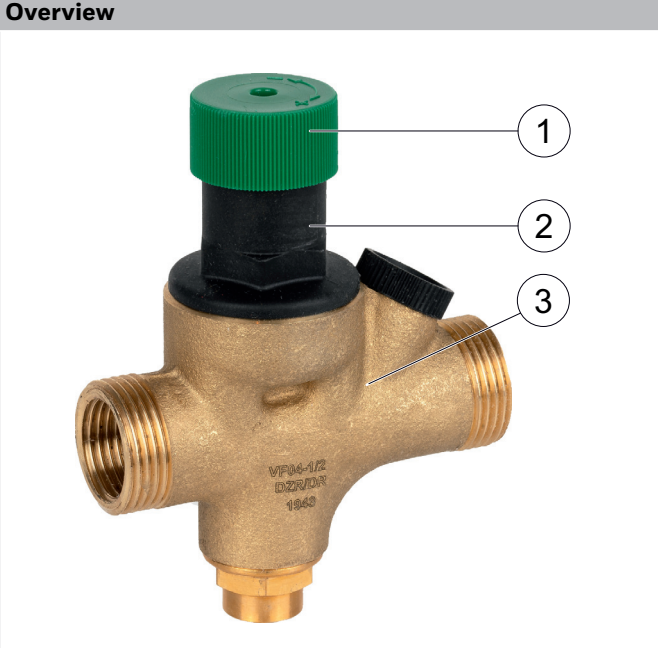
- Inlet pressure balancing – no influence on outlet pressure by fluctuating inlet pressure
- Outlet pressure adjustable with adjustment knob
- Adjustment knob can also be used for shut-off facility
- Integral shut-off facility
- Housing with internal and external threads
- Simple construction



#### TECHNICAL DATA

| Connections/Sizes                  |  |
|------------------------------------|--|
| Connection size Inlet:             | R 1/2" internal threads, R 3/4" external threads |
| Connection size Outlet:            | R 1/2" internal threads, R 3/4" external threads |
| Pressure values                    |  |
| Max. operating pressure:           | 16 bar   |
| Outlet pressure:                   | 1.5 - 6 bar                                      |
| Operating temperatures             |  |
| Max. operating temperature medium: | 40 °C (according to EN 1567)                     |

## CONSTRUCTION

| Overview   | Components                                      | Materials                                     |
|--|---|---|
|  | <b>1</b> Adjustment knob                        | High-grade synthetic material                 |
|  | <b>2</b> Spring bonnet                          | High-grade synthetic material                 |
|  | <b>3</b> Housing with pressure gauge connection | Dezincification-resistant brass               |
| <b>Not depicted components:</b>  |   |   |
|  | Pressure reducing valve                         | High-grade synthetic material                 |
|  | Diaphragm                                       | Fibre-reinforced NBR                          |
|  | Check valve cartridge                           | High-grade, heat-resistant synthetic material |
|  | Shut-off insert                                 | High-grade synthetic material                 |
|  | Adjustment spring                               | Spring steel                                  |
|  | Seals   | NBR   |

## METHOD OF OPERATION

The integral pressure reducing valve operates by means of a force equalising system. The force of a diaphragm operates against the force of an adjustment spring. The inlet pressure does not influence either opening or closing of the valve. Inlet pressure fluctuations do not therefore influence the outlet pressure, thus providing inlet pressure compensation.

An integral check valve protects the drinking water supply by allowing water to pass through in only one direction. In the flow direction, a seal disc is pushed open against the force of a spring by differential pressure.

## TRANSPORTATION AND STORAGE

Keep parts in their original packaging and unpack them shortly before use.

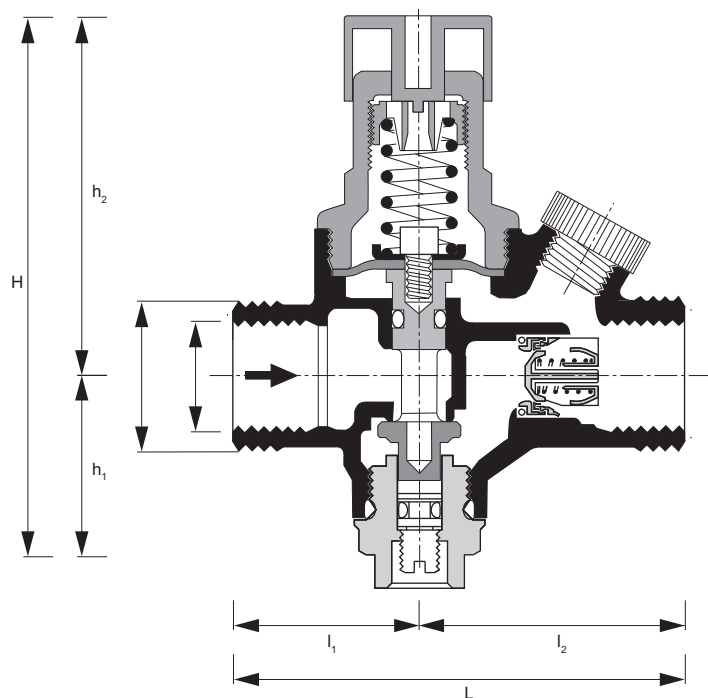
The following parameters apply during transportation and storage:

| Parameter                       | Value                    |
|---------------------------------|--------------------------|
| Environment:                    | clean, dry and dust free |
| Min. ambient temperature:       | 5 °C                     |
| Max. ambient temperature:       | 55 °C                    |
| Min. ambient relative humidity: | 25 % *                   |
| Max. ambient relative humidity: | 85 % *                   |

\*non condensing

## DIMENSIONS

### Overview



| Parameter        |                | Values                                  |
|------------------|----------------|---|
| Connection size: | R              | G <sup>1/2</sup> " / G <sup>3/4</sup> " |
| Dimensions:      | H              | 107.5                                   |
|                  | h <sub>1</sub> | 40                                      |
|                  | h <sub>2</sub> | 67.5                                    |
|                  | L              | 83                                      |
|                  | l <sub>1</sub> | 34.5                                    |
|                  | l <sub>2</sub> | 48.5                                    |
| Weight:          | kg             | 0.39                                    |

Note: All dimensions in mm unless stated otherwise.

## ORDERING INFORMATION





The following tables contain all the information you need to make an order of an item of your choice. When ordering, please always state the type, the ordering or the part number.

### Options

- standard
- not available

|                  |  | VF04-1/2E |
|------------------|--|-----------|
| Connection type: | Housing with internal and external threads | •         |

## Accessories

|  | Description  | Dimension | Part No.    |
|--|--|-----------|-------------|
|   | <b>M38K</b><br><b>Pressure gauge</b><br>Housing diameter 50 mm, below connection thread G <sup>1</sup> / <sub>4</sub> "<br>Note: Please indicate upper value of pressure range when ordering.                            |           |             |
|  | Range: 0 - 4 bar   |           | M38K-A4     |
|  | Range: 0 - 10 bar  |           | M38K-A10    |
|  | Range: 0 - 16 bar  |           | M38K-A16    |
|  | Range: 0 - 25 bar  |           | M38K-A25    |
|   | <b>MF126-A4</b><br><b>Pressure gauge</b><br>Housing Ø 63 mm, connection thread G <sup>1</sup> / <sub>4</sub> "<br>Range 0 - 4 bar, with red hand at 1.5 bar, red mark at 2.5 bar and green field between 1.5 and 2.5 bar |           | MF126-A4    |
|  |  |           |             |
|   | <b>0903454</b><br><b>Hose connector union complete</b><br>With hose connector union, screw and gasket ring   |           | 0903454     |
|  |  |           |             |
|  | <b>VST06A</b><br><b>Connection set</b><br>Threaded connections   |           |             |
|  |  | 1/2"      | VST06-1/2A  |
|  |  | 3/4"      | VST06-3/4A  |
|  |  | 1"        | VST06-1A    |
|  |  | 1 1/4"    | VST06-11/4A |
|  |  | 1 1/2"    | VST06-11/2A |
|  |  | 2"        | VST06-2A    |



Manufactured for  
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