



VF04

Filling valve

for closed heating systems

APPLICATION

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

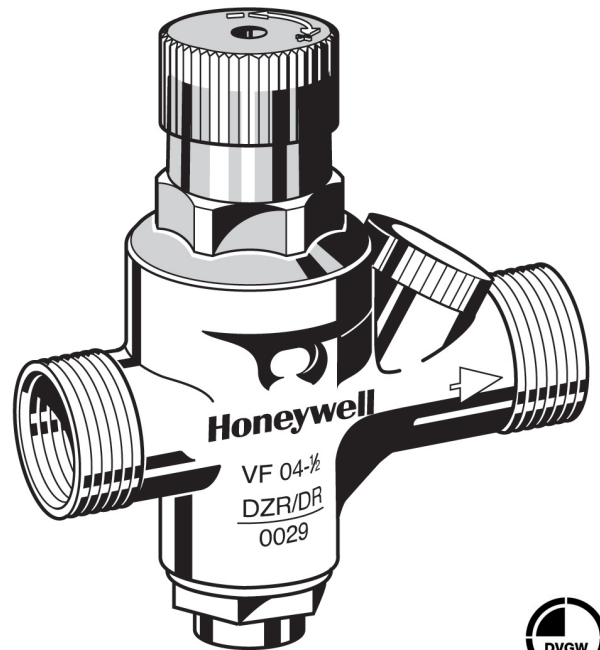
A pressure reducing valve, a check valve and a shut-off facility are combined in one unit. The pressure gauge connection enables fitting of a pressure gauge (available as an accessory) to provide accurate checking of the pressure of a system after filling.

APPROVALS

- DIN/DVGW-certified check valve

SPECIAL FEATURES

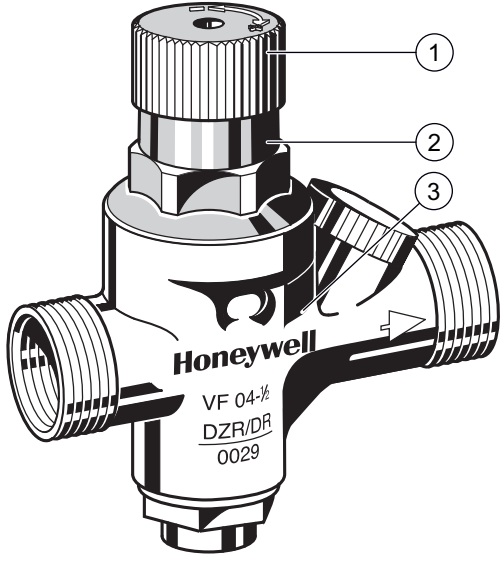
- Inlet pressure balancing – no influence on outlet pressure by fluctuating inlet pressure
- Outlet pressure adjustable with adjustment knob
- Adjustment knob can also be used for shut-off facility
- Integral shut-off facility
- Housing with internal and external threads
- Simple construction



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 - 6.0 bar
Operating temperatures	
Max. operating temperature medium:	40 °C (according to DIN EN 1567)

CONSTRUCTION

Overview	Components	Materials	
	1	Adjustment knob	High-grade synthetic material
	2	Spring bonnet	High-grade synthetic material
	3	Housing with pressure gauge connection	Dezincification-resistant brass
	Not depicted components:		
		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.

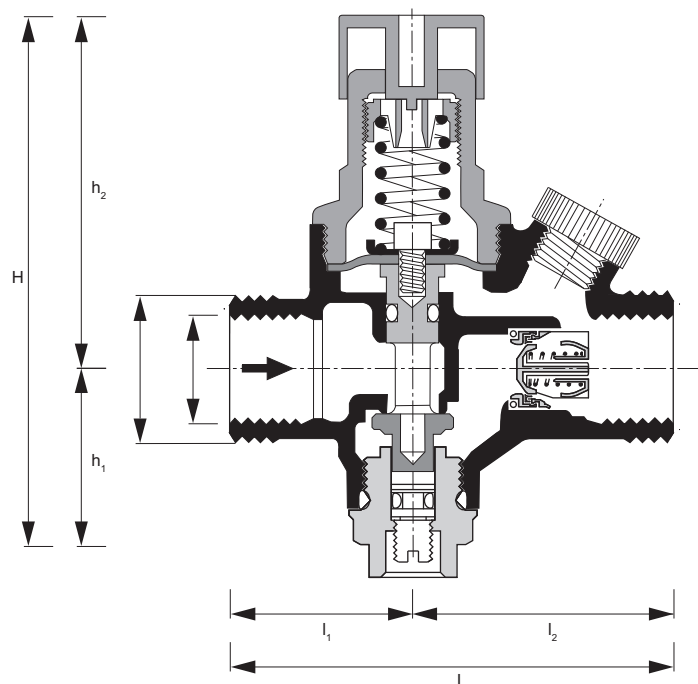
The following parameters apply during transportation and storage:

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 ^{1/2"} / G ^{3/4"}
Dimensions:	H	107.5
	h ₁	40
	h ₂	67.5
	L	83
	l ₁	34.5
	l ₂	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.
	M38K Pressure gauge Housing diameter 50 mm, below connection thread G 1/4" 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
	MF126-A4 Pressure gauge Housing Ø 63 mm, connection thread G 1/4" 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
	0903454 Hose connector union complete With hose connector union, screw and gasket ring		0903454
	VST06A Connection set Threaded connections		
		1/2"	VST06-1/2A
		3/4"	VST06-3/4A
		1"	VST06-1A
		1 1/4"	VST06-1 1/4A
		1 1/2"	VST06-1 1/2A
		2"	VST06-2A

For more information

homecomfort.resideo.com/europe



Ademco 1 GmbH
 Hardhofweg
 74821 MOSBACH
 GERMANY

Phone: +49 6261 810
 Fax: +49 6261 81309

Manufactured for and on behalf of the
 Pittway Sàrl, La Pièce 4, 1180 Rolle, Switzerland
 by its Authorised Representative Ademco 1 GmbH
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