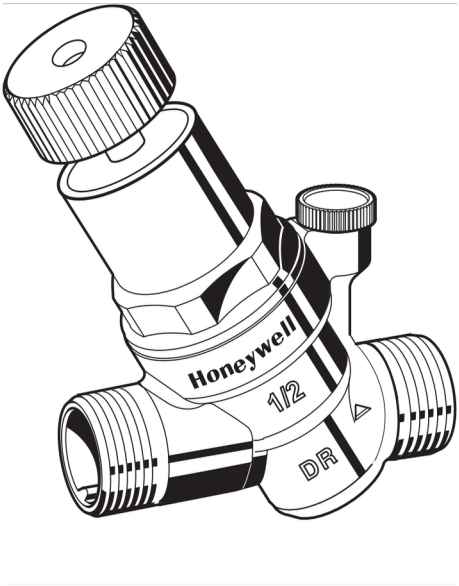
Honeywell

Installation Instructions

D04FM

Installatiehandleiding
Instrukcja montażu
Инструкции по установке



Anleitung zum späteren Gebrauch aufbewahren!
Keep instructions for later use!
Conserver la notice pour usage ultérieur!
Handleiding bewaren voor later gebruik!
Conservare le istruzioni per uso successivo!
Guardar estas Instrucciones para su uso futuro!

Návod uschovejte pro pozdější použití!

Zachowa instrukcj do późniejszego wykorzystania!

Pstraci instrucciunile pentru o utilizare ulterioar!

Сохранить инструкцию для последующего пользования!

Pressure reducing valve

32303593-001

1. Safety Guidelines

1. Follow the installation instructions.
2. Use the appliance
   - according to its intended use
   - in good condition
   - with due regard to safety and risk of danger.
3. Note that the appliance is exclusively for use in the applications detailed in these installation instructions. Any other use will not be considered to comply with requirements and would invalidate the warranty.
4. Please take note that any assembly, commissioning, servicing and adjustment work may only be carried out by authorized persons.
5. Immediately rectify any malfunctions which may influence safety.

2. Application

Medium	Water
Inlet pressure	max. 16 bar
Outlet pressure	1.5-6 bar adjustable

3. Technical data

Installation position	Horizontal and vertical installation position possible In vertical installation position spring bonnet with adjustment knob facing upwards
Operating temperature	max. 40°C accord. to DIN EN 1567 max. 70°C (max. operating pressure 10bar)
Minimum pressure drop	1 bar
Connection size	3/8", 1/2", 3/4"

4. Scope of delivery

The pressure reducing valve comprises:

- Housing with pressure gauge connection G1/4"
- Spring bonnet with adjustment opening
- Green adjustment knob
- Adjustment spring
- Valve insert complete with diaphragm and valve seat
- Pressure gauge not included (see accessories)

5. Assembly

5.1 Installations Guidelines

It is necessary during installation to follow the installation instructions, to comply with local requirements and to follow the codes of good practice.

- Horizontal and vertical installation position possible
  - In vertical installation position spring bonnet with adjustment knob facing upwards
- Install shutoff valves
- The installation location should be protected against frost and be easily accessible
  - Pressure gauge can be read off easily
  - Simplified maintenance and cleaning
- For residential applications where maximum protection against dirt is required, install a fine filter upstream of the pressure reducing valve Provide a straight section of pipework of at least five times the nominal valve size after the pressure reducing valve (in accordance with EN806-2)

5.2.Assembly instructions

When using soldering connections, do not solder the connections together with the pressure reducing valve! High temperature will irreparably damage important internal working components!

1. Thoroughly flush pipework
2. Install pressure reducing valve
   - Note flow direction
   - Install without tension or bending stresses
3. Set outlet pressure

The green adjustment knob must stay plugged on to prevent dirt from entering.

6. Start-up

6.1.Setting outlet pressure

Set outlet pressure min. 1 bar under inlet pressure.

1. Close shutoff valve on inlet
2. Release pressure on outlet side (e.g. through water tap)
3. Fit manometer (standard version)
4. Close shutoff valve on outlet
5. Fit adjustment knob
6. Slacken tension in compression spring
   - Turn adjustment handle counter clockwise (-) until it does not move any more
7. Slowly open shutoff valve on inlet
8. Turn adjuster knob until the manometer shows the
9. desired value.
7. Slowly open shutoff valve on outlet

Maintenance

We recommend a planned maintenance contract with an installation company

In accordance with EN 806-5, the following measures must be taken:

7.1. Inspection

7.1.1.Pressure reducing valve

Interval: once a year

1. Close shutoff valve on outlet
2. Check outlet pressure using a pressure meter when there is zero through-flow
   - If the pressure is increasing slowly, the valve may be dirty or defective. In this instance, carry out servicing and cleaning
3. Slowly open shutoff valve on outlet

7.2. Maintenance

Frequency: every 1-3 years (depending on local operating conditions)
To be carried out by an installation company

1. Close shutoff valve on inlet
2. Release pressure on outlet side (e.g. through water tap)
3. Close shutoff valve on outlet
4. Fit adjustment knob
5. Slacken tension in compression spring
   - Turn adjustment handle counter clockwise (-) until it does not move any more
6. Unscrew spring bonnet
7. Remove valve insert with a pair of pliers

8. Remove filter and clean Check that sealing ring, edge of
9. nozzle and 'o'-ring are in good condition, and if necessary replace the entire valve insert

10. Reassemble in reverse order

Press in diaphragm with finger before inserting slip ring

11. Set outlet pressure

7.3. Cleaning

Caution !

Do not use any cleansers that contain solvents and/or alcohol for cleaning the plastic parts, because this can cause damage to the plastic components - water damage could result.

If nesseccary, the filter can be cleaned.

To be carried out by an installation company or the operator.

Detergents must not be allowed to enter the environment or the sewerage system!

1. Close shutoff valve on inlet
2. Release pressure on outlet side (e.g. through water tap)
3. Close shutoff valve on outlet
4. Slacken tension in compression spring
   - Turn adjustment handle counter clockwise (-) until it does not move any more
5. Unscrew spring bonnet
6. Remove valve insert with a pair of pliers
7. Remove filter, clean and reinsert
8. Reassemble in reverse order

Press in diaphragm with finger before inserting slip ring

9. Set outlet pressure

8. Disposal

- Dezincification resistant brass housing
- High-quality synthetic material valve insert
- High-quality synthetic material spring bonnet
- Spring steel adjustment spring
- Fibre-reinforced EPDM diaphragm
- EPDM sealing

Observe the local requirements regarding correct waste recycling/disposal!

9. Troubleshooting

Problem	Cause	Remedy
Beating sounds	Pressure reducing valve is too large	Call our Technical Customer Services
Water is escaping from the spring bonnet	Diaphragm in valve insert is faulty	Replace valve insert
Too little or no water pressure	Shutoff valves up- or downstream of the pressure reducing valve are not fully open	Open the shutoff valves fully
	Pressure reducing valve is not set to the desired outlet pressure	Set outlet pressure
	Filter in pressure reducing valve is contaminated	Clean or replace filter
	Pressure reducing valve is not fitted in flow direction	Fit pressure reducing valve in flow direction (note direction of arrow on housing)
The outlet pressure set does not remain constant	Filter in pressure reducing valve is contaminated or worn	Clean or replace filter
	Valve insert, sealing ring or edge of nozzle is contaminated or worn	Replace valve insert
	Rising pressure on outlet (e.g. in boiler)	Check check valve, safety group etc.

10. Spare Parts

No.	Description	Dimension	Part No.
1	Valve insert complete	3/8" - 3/4"	D04FMA-1/2
2	Blanking plug with O-ring R1/4" (5 pcs.)		S06K-1/4

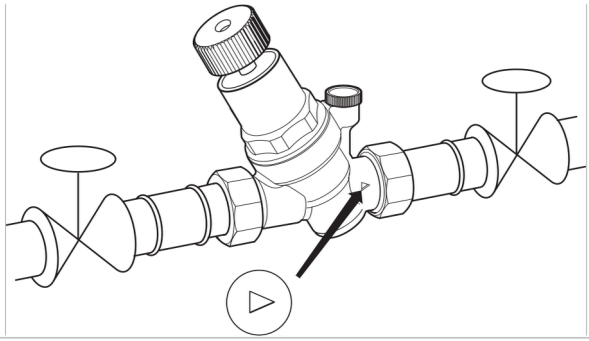
11. Accessories

M38K Pressure gauge

Housing diameter 50 mm, below connection thread G1/4". Ranges: 0 - 4, 0 - 10, 0 - 16 or 0 - 25 bar. Please indicate upper value of pressure range when ordering

When attaching a pressure gauge please use a sealing tape that is approved by the local water regulator

5.2



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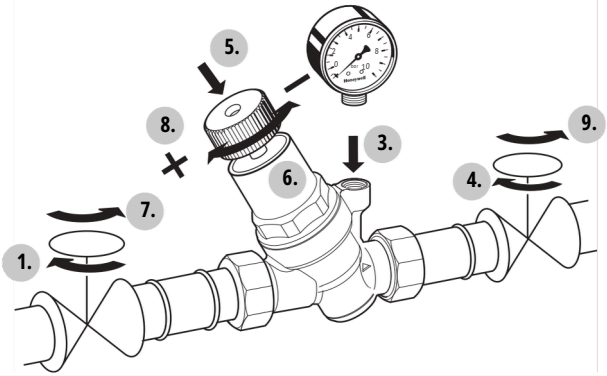

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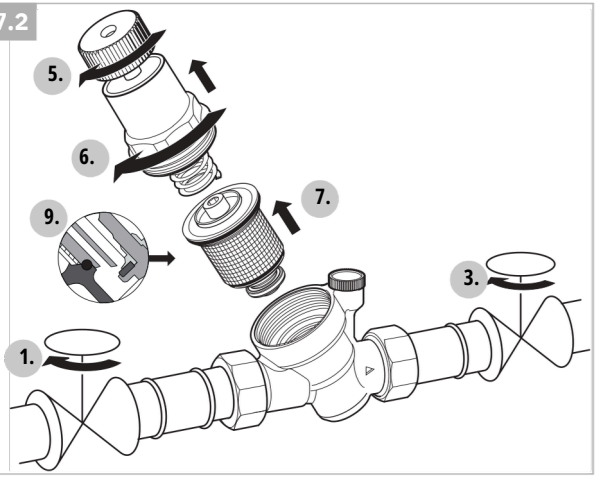

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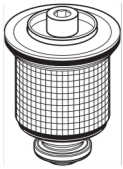

D04FMA

11.

M38K