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Honeywell D06F-1E

Honeywell Braukmann D06F-1E Pressure Reducer

INSTRUCTION MANUAL

1. Introduction

The Honeywell D06F pressure reducer is designed to protect domestic water systems from excessive supply pressure. It is also suitable for various industrial and commercial applications, provided its specifications are met. The use of a pressure reducer helps prevent pressure-related damage and can contribute to reduced water consumption. This device ensures that the set outlet pressure remains constant, even when inlet pressures fluctuate significantly. By reducing and stabilizing the operating pressure, disruptive flow noises within the installation are minimized.



Image showing the Honeywell Braukmann D06F-1E pressure reducer, highlighting its brass body and adjustment knob.

2. Product Features and Components

The D06F-1E pressure reducer incorporates several key features and high-quality components:

- **Adjustment Scale:** Equipped with an integrated scale for setting the desired outlet pressure.
- **Housing Material:** Constructed from dezincification-resistant brass for durability and longevity.
- **Valve Design:** Features a balanced seat valve for stable pressure regulation.
- **Control Elements:** Spring cap and adjustable handle are made from high-quality plastic.
- **Replaceable Valve Insert:** The valve insert is made of corrosion-resistant plastic and is designed to be replaceable for ease of maintenance.
- **Strainer System:** Includes a strainer carrier made of corrosion-resistant plastic, fitted with a fine stainless steel mesh.
- **Strainer Cup:** Made from impact-resistant, clear plastic, allowing for visual inspection of the strainer.
- **Manometer Connection:** A G 1/4" port is provided for connecting a pressure gauge to verify outlet pressure.

3. Application Area

This pressure reducer is suitable for use with:

- Water
- Compressed air
- Nitrogen

The maximum operating temperature for these media is 40 °C.

4. Setup and Installation

Proper installation is crucial for the optimal performance and longevity of the pressure reducer. It is recommended that installation be performed by a qualified professional.

1. **System Depressurization:** Ensure the water supply system is completely depressurized and drained before beginning installation.
2. **Installation Location:** Install the pressure reducer in the main water line, typically after the water meter and any primary filter. Ensure it is easily accessible for future maintenance.
3. **Flow Direction:** Observe the flow direction arrow marked on the reducer's housing. The device must be installed in the correct flow orientation.
4. **Connections:** For the D06F-1E variant, which comes without connection screw fittings, ensure appropriate and properly sealed pipe connections are made to the 1-inch external thread. Use suitable sealing materials (e.g., PTFE tape or hemp with sealing paste).
5. **Space Requirements:** Allow sufficient space around the unit for future adjustments, maintenance, and potential replacement of components.
6. **Leak Check:** After installation, slowly repressurize the system and carefully check all connections for leaks.

5. Operating and Pressure Adjustment

The Honeywell D06F-1E pressure reducer is designed for straightforward pressure adjustment.

1. **Factory Preset:** The unit is typically factory preset to an outlet pressure of 3 bar.
2. **Adjustment Range:** The outlet pressure can be adjusted within a range of 1.5 to 6 bar.
3. **Adjustment Procedure:** To change the outlet pressure, turn the adjustable handle. Turning clockwise generally increases pressure, while turning counter-clockwise decreases it.
4. **Pressure Verification:** While an adjustment scale is present, it is highly recommended to connect an external manometer (pressure gauge) to the G 1/4" port to accurately verify the set outlet pressure.

This ensures precise control and compensates for any potential inaccuracies of the integrated scale.

5. **Minimum Pressure Difference:** For the pressure reducer to function correctly, there must be a minimum pressure difference of 1 bar between the inlet (upstream) and outlet (downstream) pressures.

6. Maintenance

Regular maintenance ensures the continued efficiency and reliability of your pressure reducer.

- **Strainer Cleaning:** The fine strainer, with a mesh size of approximately 0.16 mm, should be inspected and cleaned periodically. The clear plastic strainer cup allows for visual inspection of accumulated debris. To clean, depressurize the system, remove the strainer cup, clean the mesh under running water, and reassemble.
- **Valve Insert Replacement:** The corrosion-resistant plastic valve insert is replaceable. If the unit's performance degrades or internal components show significant wear, the valve insert can be exchanged. This procedure should ideally be performed by a qualified technician.
- **General Inspection:** Periodically check the unit for any signs of leaks, corrosion, or unusual noises during operation. Address any issues promptly.
- **DVGW Certification:** The unit is DVGW component-tested, indicating adherence to specific quality and safety standards. Regular maintenance helps maintain these standards.

7. Troubleshooting

If you encounter issues with your Honeywell D06F-1E pressure reducer, consider the following troubleshooting steps:

- **Inaccurate Pressure Reading or Adjustment:**
 - **Symptom:** The adjustment scale does not seem to correspond to the actual pressure, or the pressure cannot be set accurately.
 - **Solution:** Always verify the outlet pressure with an external, calibrated manometer connected to the G 1/4" port. Ensure the minimum pressure difference of 1 bar between inlet and outlet is maintained.
- **Persistent Flow Noises:**
 - **Symptom:** Unusual or loud flow noises are heard from the unit or within the plumbing system.
 - **Solution:** Check the fine strainer for blockages and clean if necessary. Verify that the unit is installed in the correct flow direction. Ensure the set pressure is appropriate for your system and not too low, which could cause cavitation.
- **Outlet Pressure Fluctuations:**
 - **Symptom:** The outlet pressure varies significantly despite a stable inlet pressure.
 - **Solution:** Inspect the valve insert and strainer for debris, wear, or damage. A worn valve insert may not regulate pressure effectively. Professional inspection may be required.
- **Leaks from the Unit:**
 - **Symptom:** Water leakage from connections or the unit itself.
 - **Solution:** For leaks at connections, ensure all threaded joints are properly sealed and tightened. If the leak originates from the unit's body or internal components, professional inspection and repair or replacement are necessary.

If these steps do not resolve the issue, contact a qualified plumbing professional or Honeywell customer support.

8. Specifications

Parameter	Value
KVS-value	5.8 m ³ /h
Construction Length	180 mm
Inlet Pressure (Pre-pressure)	Max. 16 bar
Outlet Pressure (Back-pressure)	1.5 to 6 bar (preset to 3 bar)
Minimum Pressure Difference	1 bar
Fine Strainer Mesh Size	Approx. 0.16 mm
Maximum Operating Temperature	40 °C
Connection Size	1 inch AG (External Thread)
Nominal Width	DN25
Connection Type	Without connection screw fittings (Variant E)
Material	Dezincification-resistant brass housing, plastic components
Certifications	WRAS, DVGW (Component tested in connection sizes G 1/2" to 2", Sound insulation tested in R 1/2" to R 1 1/4" - Group 1)
Manufacturer Part Number	D06F-1"E
Model Number Item	D06FGE23
First Availability	January 15, 2020

9. Warranty and Support

Specific warranty information and detailed customer support contacts are not provided within the available product data. For comprehensive warranty details, technical assistance, or to locate authorized service providers, please refer to the official Honeywell website or contact your original retailer.