

Danfoss 032F1204

Danfoss EVR 3 Solenoid Valve (Model 032F1204) Instruction Manual

Model: 032F1204 | Brand: Danfoss

1. INTRODUCTION

This instruction manual provides essential information for the safe and efficient installation, operation, and maintenance of the Danfoss EVR 3 Solenoid Valve, model 032F1204. Please read this manual thoroughly before attempting any procedures to ensure proper function and to prevent potential hazards.

2. PRODUCT OVERVIEW

The Danfoss EVR 3 is a normally closed (NC) solenoid valve designed for various industrial and refrigeration applications. It features 3/8 inch ODF (Outside Diameter Flared) connections, ensuring a secure and leak-tight fit. This valve is engineered for reliability and precise control of fluid flow.



Figure 2.1: Front view of the Danfoss EVR 3 Solenoid Valve with the solenoid coil installed. This image highlights the main body, ODF connections, and the attached coil with its specifications.



Figure 2.2: Rear view of the Danfoss EVR 3 Solenoid Valve, indicating the flow direction with an arrow and displaying regulatory markings.



Figure 2.3: The Danfoss EVR 3 Solenoid Valve (032F1204) shown with its original packaging box, displaying product details and "Made in Poland" label.

3. SAFETY INFORMATION

- Always disconnect power before installing, servicing, or removing the solenoid valve.
- Ensure the system pressure is relieved before working on the valve.
- Wear appropriate personal protective equipment (PPE) such as safety glasses and gloves.
- Installation and maintenance should only be performed by qualified personnel.
- Verify that the valve's specifications (pressure, temperature, fluid compatibility) match the application requirements.
- Avoid exposing the valve to excessive mechanical stress or vibration.

4. INSTALLATION

4.1 Pre-Installation Checks

- Inspect the valve for any signs of damage during shipping.

- Confirm that the model number (032F1204) and specifications match your order and application.
- Ensure all necessary tools and fittings are available.

4.2 Mounting and Connection

1. Mount the valve in a position that allows for easy access for maintenance and inspection. The valve can be installed in any position, but it is recommended to install with the coil upwards to prevent accumulation of debris.
2. Ensure the flow direction arrow on the valve body aligns with the system's fluid flow.
3. Connect the 3/8 inch ODF pipes to the valve's inlet and outlet ports. Use appropriate flaring tools and techniques to ensure a leak-free connection.
4. Tighten connections to the manufacturer's recommended torque specifications to prevent leaks without over-stressing the valve body.

4.3 Electrical Connection

- Ensure the power supply voltage and frequency match the specifications of the solenoid coil.
- Connect the solenoid coil to the appropriate electrical circuit. Follow local electrical codes and safety standards.
- Secure all electrical connections to prevent accidental disconnection or short circuits.

5. OPERATION

The Danfoss EVR 3 (032F1204) is a normally closed (NC) solenoid valve. This means that when the solenoid coil is de-energized (no power), the valve remains closed, preventing fluid flow. When the solenoid coil is energized (power applied), the valve opens, allowing fluid to pass through.

- **Energizing the Coil:** Applying the specified voltage to the solenoid coil will open the valve.
- **De-energizing the Coil:** Removing power from the solenoid coil will close the valve.

Monitor system pressure and flow rates after initial operation to ensure proper function and detect any anomalies.

6. MAINTENANCE

6.1 Routine Inspection

- Periodically check for external leaks around the connections and valve body.
- Inspect the solenoid coil for any signs of overheating, damage, or loose connections.
- Listen for unusual noises during operation, which may indicate internal issues.

6.2 Cleaning

- Keep the exterior of the valve clean and free from dust, dirt, and corrosive substances.
- If internal cleaning is required, consult a qualified technician or Danfoss service representative. Disassembly by untrained personnel can void warranty and cause damage.

6.3 Coil Replacement

If the solenoid coil fails, it can typically be replaced without removing the entire valve from the system. Ensure the power is disconnected before attempting coil replacement. Refer to the specific coil's instructions for detailed replacement procedures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Valve does not open when energized.	<ul style="list-style-type: none">• No power to coil.• Incorrect voltage.• Damaged coil.• Obstruction in valve.	<ul style="list-style-type: none">• Check electrical connections and power supply.• Verify coil voltage matches supply.• Replace coil.• Inspect valve internals for debris (by qualified personnel).
Valve does not close when de-energized.	<ul style="list-style-type: none">• Coil remains energized.• Debris preventing closure.• Worn internal components.	<ul style="list-style-type: none">• Check electrical circuit for continuous power.• Inspect valve internals for debris (by qualified personnel).• Consider valve replacement or professional service.
Leakage from valve connections.	<ul style="list-style-type: none">• Improperly flared connections.• Loose fittings.• Damaged ODF connections.	<ul style="list-style-type: none">• Re-flare connections if necessary.• Tighten fittings to correct torque.• Replace valve if connections are damaged.

8. SPECIFICATIONS

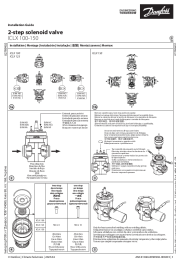
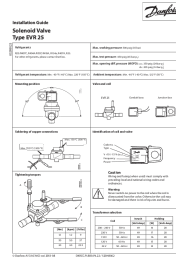

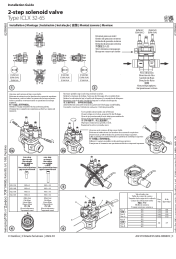
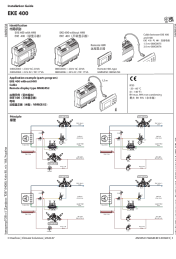
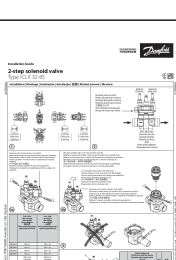
Attribute	Value
Brand	Danfoss
Model Number	032F1204 (Part Number: G2401.38S)
Type	Solenoid Valve, Normally Closed (NC)
Connection Type	3/8 inch ODF (Outside Diameter Flared)
Item Weight	8 ounces (approx. 0.5 LBR)
Product Dimensions (L x W x H)	5.37 x 2.5 x 4 inches
UPC-EAN	5702422004189
Manufacturer	Danfoss
Date First Available	December 14, 2016

9. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or service, please contact Danfoss directly or visit their official website. Danfoss provides comprehensive support for its products to ensure customer satisfaction and optimal performance.

Danfoss Official Website: www.danfoss.com

Related Documents - 032F1204

	<p>Danfoss ICLX 100-150 2-Step Solenoid Valve Installation Guide</p> <p>Comprehensive installation, maintenance, and technical specifications for the Danfoss ICLX 100-150 2-step solenoid valve, covering operation, assembly, and troubleshooting.</p>
	<p>Danfoss EVR 25 Solenoid Valve Installation Guide</p> <p>Installation guide for the Danfoss EVR 25 solenoid valve, covering specifications, mounting, electrical connections, and safety precautions. Includes technical data for refrigerants, pressures, temperatures, and transformer selection.</p>
	<p>Danfoss ICF Valve Station: Technical Data and Applications</p> <p>Comprehensive data sheet for Danfoss ICF valve stations (models ICF 15, 20, 25, 50, 65), detailing features, technical specifications, function modules, material data, connection types, and application examples for industrial refrigeration.</p>
	<p>Danfoss ICLX 32-65 2-Step Solenoid Valve Installation Guide</p> <p>Comprehensive installation guide for the Danfoss ICLX 32-65 2-step solenoid valve, covering technical specifications, application, wiring, maintenance, and troubleshooting for industrial refrigeration systems.</p>
	<p>Danfoss EKE 400 Installation Guide: Comprehensive Setup and Wiring</p> <p>This guide provides detailed instructions for installing and connecting the Danfoss EKE 400 controller. It covers electrical specifications, input/output configurations, valve selection, system principles, and physical dimensions, ensuring proper setup for climate control applications.</p>
	<p>Danfoss ICLX 32-65 2-Step Solenoid Valve Installation Guide</p> <p>Comprehensive installation guide for the Danfoss ICLX 32-65 2-step solenoid valve, covering features, operation, maintenance, and safety instructions.</p>

