



ROTAREX Operating Instructions: (Liquid Withdrawal Valve Instructions)

Excess Flow Valves for Liquid Service

Model: [480-425 and 480-428 Series]

Maximum Allowable Pressure: 25 bar

Important Safety Guidelines

- Installation, use, and maintenance of this product must comply with all ROTAREX instructions and applicable local and national codes, regulations, and laws.
- Regular inspection and maintenance are mandatory to ensure safe operation.
- Only qualified personnel should perform installation and maintenance tasks.
- Thoroughly read and understand these instructions before installation, operation, or maintenance. Provide these instructions to the product's end user.

Hazards and Warnings

- **Contact and Inhalation Risks:** Exposure to liquid propane, ammonia, or their vapors can result in severe injury or death. Always handle in open-air environments with adequate ventilation.
- **Fire and Explosion Risks:** Ensure liquid propane is released away from any ignition source. Remember, propane is heavier than air and may not easily dissipate in still conditions.
- **Protective Equipment:** Always wear approved gloves and eye protection when handling this equipment.

Installation Guidelines

1. **Positioning:** The valve may be mounted at the top or bottom of the tank. For bottom mounting, position the coupling slightly above the base to prevent sludge accumulation, which may interfere with proper valve function.
2. **Thread Preparation:** If there is not thread sealant already applied, you must apply a suitable pipe joint compound or PTFE tape to the valve's male threads.
3. **Check for Debris:** Inspect the coupling for foreign materials before installation and clean as necessary.
4. **Connection:** Insert the valve into the coupling, tighten by hand, then use a wrench to secure 2–3 additional turns to ensure a proper seal.
5. **Testing:** Perform pressure and leak tests in compliance with relevant codes.

Operation Instructions

The valve is designed for temporary liquid withdrawal from stationary tanks. Not suitable for permanent installations.

To Activate the Valve:

1. Loosen the cap to vent accumulated gas. If venting does not stop, retighten and use alternative approved methods.
2. Attach an appropriate shut-off valve to the adapter. Ensure the shut-off valve is fully open before connecting to the tank.
3. Thread the assembly onto the valve until tight, then close the shut-off valve. Listen for a click signaling activation.
4. If the valve does not activate, equalize pressures by introducing vapor pressure or pumping liquid back through the valve.

To Re-Lock the Valve:

1. Ensure tank pressure is above 35 PSIG.
2. Close the shut-off valve, disconnect the hose, and open the shut-off valve fully to trigger the excess flow valve closure.
3. If closure does not occur, stop immediately and ensure the system is safely evacuated for repairs.
4. Clean the valve face and secure it with the designated cap and gasket.

Maintenance and Inspection

Regular checks are essential to ensure reliability:

1. Inspect for corrosion caused by environmental factors.
2. Check for physical damage that may compromise sealing or functionality.
3. Test for leaks in the valve connections.
4. Verify correct operation, ensuring no obstructions are present.

General Notes

Excess flow valves are designed to stop flow in the event of a sudden pressure drop. However, certain factors such as low upstream pressure or restricted flow may affect performance.

Periodic inspection is vital to extend the product's lifespan, which may vary based on operating conditions and maintenance frequency. For further guidance, refer to ROTAREX's technical documentation or website.