

REGO Cryo-Flow Products

Operating Instructions For BK9412T, and BK9416T

Extended Bonnet Cryogenic Globe and Angle Valves for Bulk Storage Containers, Transports, and Pipelines

Suitable for use on Oxygen, Argon, Nitrogen, Nitrous Oxide and Carbon Dioxide

Maximum Allowable Pressure 42 bar

Warning: Installation, usage and maintenance of this product must be in compliance with all Engineered Controls International Inc. instructions as well all requirements and provisions of national, and local standards, codes, regulations, and laws.

Inspection and maintenance on a periodic basis is essential. Only qualified personnel should perform installation and maintenance.

Be sure all instructions are read and understood before installation, operation and maintenance. These instructions must be passed on to the end user of the valve.

Caution: Contact of cryogenic liquids or inhalation of their vapors can cause serious injury and death! O₂, Ar, N₂, N₂O and CO₂ must be released outdoors in air currents that will ensure dispersion to prevent exposure to people and livestock. These gases must be kept far enough from open flame or other source if ignition to prevent fire or explosion!

Installation:

1. Ensure pipe connections are clean and free of any debris.
2. Apply an appropriate sealant that is compatible with the intended service to the male threads of the pipe.
3. Position the valve such that the flow arrow is in the proper direction for the intended application.
4. Restrain the valve with a vise or suitable wrench, and using an appropriate wrench for the pipe, tighten the pipes into the valve. Do not over tighten pipes, as this will cause thread stress.
5. Follow all local or national codes and standards for pressure testing and leak checking the installation before start up of the system.

Operation: REGO Cryo-Flow Products Globe Valves are designed to provide positive shut-off and offer a long, low maintenance service life for liquid or vapor service: they are designed to stop flow in either direction. They are ideally suited for use on bulk storage containers, transports, cylinder filling plants, and plant piping.

1. Follow your company's established operating procedures.
2. Wear eye protection.
3. Wear suitable gloves to prevent freeze burns.
4. Ensure all threads engage smoothly and easily. Do not hammer or force the valve in any manner.

5. When opening the valve, turn the hand-wheel counterclockwise, and ensure that it is opened fully (back-seated). Do not partially open the valve. With the valve pressurized, inspect the connections for signs of leakage – no leakage permissible.
6. To close the valve, turn the hand-wheel clockwise until it stops. This indicates that the seat disc has contacted the seat. Do not over torque the hand-wheel after the seat disc has engaged the seat.
7. If the valve must be removed from the system, evacuate internal pressure before uncoupling valve connections.
8. Valves installed in piping systems such that cryogenic liquid could be isolated from a pressure relief device require installation of a suitable pressure relief device.

Maintenance and Inspection:

Periodically check for:

1. Any signs of corrosion due to water, salt, industrial pollutants, chemicals, and roadway contaminants;
2. Any physical damage that would prevent proper sealing and usage or that may cause product failure under pressure;
3. Leaks in the valve bonnet area, body, and end connections of the valve.

Keep all equipment clean, and replace damaged equipment immediately.

Hazards:

- These valves are designed to stop flow in either direction; however, the flow arrow on the valve indicates inlet to outlet orientation. The inlet should be positioned towards the side typically under higher pressure than the outlet.

General Warning:

All REGO Cryo-Flow products are mechanical devices that will eventually become inoperative due to wear, contaminants, corrosion, and aging components. Periodic inspection and maintenance is essential. The safe useful life of this product can vary greatly depending on the environment it is exposed to, and the inspection/maintenance program that is used.

For more information, refer to REGO Cryo-Flow Products catalog or www.regoproducts.com/cryoflow.

REGO GmbH
Industriestrasse 9
D- 35075 Gladenbach Germany
Tel- 49-6462-9147-10
Fax- 49-6462-9147-29
E-mail. info@rego-europe.de