

## **REGO Cryo-Flow Products**

Operating Instructions For 9500ASE

High Pressure Brass Valves for Cylinder Filling Panels, Tube Trailers,  
and High Pressure Manifolds and Piping Systems

Suitable for use on Oxygen, Hydrogen, Helium, Argon, Nitrogen,  
Nitrous Oxide, Carbon Dioxide, Acetylene, Compressed Air, and  
Mixtures of these gases

Maximum Allowable Pressure 260 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 or inhalation of vapors must be avoided to prevent serious injury and death! O<sub>2</sub>, H<sub>2</sub>, He, Ar, N<sub>2</sub>, N<sub>2</sub>O, CO<sub>2</sub> and, C<sub>2</sub>H<sub>2</sub> 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 of ignition to prevent fire or explosion!

## **Installation:**

NOTE: Before the valve can be brazed into place, the internal mechanisms must be removed to avoid damaging the seat and seals.

1. Clamp the valve body in a vise. Turn hand wheel counterclockwise to full open position. Remove the lock nut and hand wheel for access to the bonnet. Using an appropriate wrench, unthread the bonnet. Then remove the bonnet, stem, seals, and seat assembly from the valve body. Set aside in a CLEAN AREA for reassembly.
2. Ensure connections are clean and free of any debris.
3. Position the valve such that the flow arrow is in the proper direction for the intended application.
4. Braze the connections to the body. Follow all national, regional, and/or local code, standard or specification for the proper brazing procedures.
5. Replace the seat assembly, seals, stem, and bonnet (make sure that the seat assembly is threaded all the up the stem). Thread bonnet onto body and torque to 305 – 373 N·m. Replace hand wheel, and nut; tighten nut firmly.
6. 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 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 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 vapor 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](http://www.regoproducts.com/cryoflow).

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