

ONYX VALVE CO

Series DHO Installation and Maintenance Instructions

OPERATION

Series DHO and DHO-BG Pinch Valves utilize a simple hand wheel operated, free floating dual pinch bar mechanism which closes or opens the full round elastomeric sleeve. The free floating mechanism permits even closure from both sides and the positive opening feature attached directly to the pinch bars, insures complete and even opening. Closure is bubble tight; over pinching is prevented by a positive closure stops on the stem.

STORAGE

Correct storage procedures can appreciably extend the service life of the valve. Most important to remember is that the rubber sleeve in the valve is perishable. While sleeves are stored at 50°F at 60% relative humidity at the factory, field storage conditions are seldom optimum. Therefore, we recommend the following precautions for valves and spare sleeves which are to be stored for any length of time prior to installation.

1. Keep valves and spare sleeves as cool as possible. They can be safely stored in an unheated area, but allow maximum ventilation in storage areas subject to high ambient summer temperatures. Enclosed truck trailers, storage sheds, and the like can become incredibly hot during summer months. Avoid such locations.
2. Avoid sunlight. Ultra-violet light will accelerate the deterioration of rubber. Leave the valve in its box, if it was so packaged. If not feasible to box the valve, cover the sleeve with black plastic.
3. Avoid ozone. DO NOT STORE valve near active electrical equipment. If valve will be in storage for a long period, coat the face and inside the sleeve twice yearly with silicone spray or liquid.

INSTALLATION:

1. Safety considerations:
 - a) Leakage: Consider the possibility of flange leakage due to improper tightening of flange bolts. Refer to Paragraph 8 and Figure 1 for correct flange tightening procedure. As pinch valves frequently handle abrasive fluids, it is reasonable to expect that the sleeve will eventually wear out. Precautions should be taken where liquids may drip down onto electrical equipment, or plant personnel, and where a combustible fluid may drain into a dangerous area.
 - b) After shut down: Pinch valves seat absolutely gas tight and can hold pressure in a system for a considerable length of time. Means should be provided to safely relieve this pressure and drain lines.
2. Allow as long a straight run as possible into and out of throttling valves. Ideally, there should be a minimum of 10 to 20 pipe diameters up stream, and 3 to 5 pipe diameters down stream.
3. Locate the valve where it can be reached for service, if necessary.