

STORAGE RECOMMENDATIONS

If PEBCO® equipment is to be stored for a period of time longer than three weeks prior to installation, the following procedures are recommended:

1. Equipment should be stored in enclosed areas. Indoor storage area should be clean and dry. Storage should be off of the floor, preferably on skids or pallets.
2. All interior and exterior surfaces of the valve must be thoroughly coated with Cosmoline. (This includes retract areas of the gate.) Any unpainted surfaces, such as shafts, rollers, bearings, and pins should be given special attention to assure a thorough covering of Cosmoline.
3. All bearings must be fully charged with grease.
4. All electrical device enclosures must be opened and coated with CRC Store and Lube.
5. All electrical connections (terminations) must be coated with CRC Store and Lube.
6. All electrical openings must capped or plugged as necessary to be sealed to atmosphere.
7. Hydraulic and Pneumatic linear actuators:
 - a. Hydraulic and pneumatic cylinders must be filled with 10 wt. oil. Assurances must be taken to assure complete filling of the cylinders with oil. As an alternate, the hydraulic cylinders may be filled with the same fluid the hydraulic system will operate with.
 - b. The hydraulic or pneumatic cylinder rod must be fully retracted within the cylinder body.
 - c. The hydraulic or pneumatic cylinder must be removed and stored in a vertical orientation with the rod end up. All external surfaces of the cylinder, along with clevises and pins, must be thoroughly coated with Cosmoline.
 - d. A relief valve shall be installed in the cylinder ports to allow for fluid expansion as the result of increases in ambient temperatures.
8. Electric Actuators:
 - a. The actuator rod must be fully retracted within the actuator body.
 - b. The electrical enclosure must be opened and coated with CRC Store and Lube.
 - c. All conduit opening must be plugged or capped as required to seal to atmosphere.

- d. All external surfaces of the actuator shall be coated with Cosmoline. Special attention should be paid to assure coating of pins, clevises and any unpainted surfaces.
9. Air valves should be filled with Parker F442002 lubricating fluid. After filling, a small amount should be drained out and the ports should be plugged. This includes removal of the mufflers and plugging to assure sealing from atmosphere.
10. Hydraulic valves should be filled with SAE 10 wt. oil or the same hydraulic fluid as will be used in the hydraulic system. After filling, a small amount should be drained out and the ports should be plugged.
11. Hose assemblies must be removed & capped / plugged.
12. Electrical junction boxes included with the equipment should be opened and any exposed wire and terminations should be coated with CRC Stor and Lube. Open conduit connections should be plugged or capped to atmosphere and the enclosure door should be securely tightened to assure sealing integrity.
13. Storage area should be free from rapid temperature changes. If necessary, an additional heat source should be used.
14. Storage area should not subject equipment to vibration.
15. Periodic inspections should be made, checking the covering, any moisture present, cleanliness and general appearance to assure the absence of corrosion and the integrity of the Cosmoline coating.
16. If outdoor storage is necessary, the equipment should be fully covered with weather-proof material vented so as not to trap moisture, but drip-proof so the water cannot enter or splash up into it.
17. Storage must be above any possible water or snow line.
18. For Dustless Loading Spouts (DLS), the outer sleeve should be supported by blocking, and wrapped with shrink-wrap or other suitable materials.
19. For Dustless Loading Spout Positioners (DLSP), the seal adjustment should be adjusted to relax seal compression until ready to use.

ADDITIONAL REQUIREMENTS

Prior to long-term storage and start-up after storage, please refer to any and all applicable instructions published by individual component manufacturers.