



MANUAL

DOUBLE FLAPPER VALVES

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1 MANUAL OVERVIEW

1.1 MANUAL CONTENTS

This Section of the manual will familiarize you with the contents of the other manual sections. This manual is general in approach and may not include everything you want to know about the specifics of your particular application. Specific technical information can be found on the drawings which are a part of this manual.

If you have any questions, which cannot be answered by the written material provided, call **PEBCO®** (270) 442-1996 or FAX (270) 442-5214.

1.2 STORAGE RECOMMENDATIONS

Section 2 covers recommendations for proper storage. In some cases, scheduling requirements or construction delays result in the equipment being stored prior to installation. The guidelines suggested in this section are to aid the installer in selection of proper storage conditions. Because of variability in site conditions/facilities, proper equipment storage/protection is the responsibility of the purchaser or his agent.

PEBCO® is not responsible for any equipment damage which results from inadequate storage/protection efforts.

1.3 ASSEMBLY

PEBCO®'s Double Flapper Valves are completely assembled.

1.4 GENERAL INSTALLATION

Section 4 covers installation and start-up procedures. Extreme care and good safety procedures should be used whenever working at height or around moving equipment.

1.5 WARRANTY

Section 5 is **PEBCO®**'s Warranty to the purchaser of Double Flapper Valves.

2 STORAGE RECOMMENDATIONS

2.1 GENERAL REQUIREMENTS

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

- 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.
- Storage area should be free from rapid temperature changes. If necessary, an additional heat source should be used.
- Storage area should not subject equipment to vibration.
- All interior and exterior surfaces of the positioner must be thoroughly coated with Cosmoline. Any unpainted surfaces, such as shafts, rollers, bearings, and pins should be given special attention to ensure a thorough covering of Cosmoline.
- Storage must be above any possible water or snow line.
- All bearings must be fully charged with grease.
- Periodic inspections should be made, checking the covering, any moisture present, cleanliness and general appearance to ensure the absence of corrosion and the integrity of the Cosmoline coating.
- 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.

2.2 ELECTRICAL EQUIPMENT

- All electrical device enclosures must be opened and coated with CRC Stor & Lube.
- All electrical connections (terminations) must be coated with CRC Stor & Lube.
- All electrical openings must be capped or plugged as necessary to be sealed to atmosphere.
- Electrical junction boxes included with the equipment should be opened and any exposed wire and terminations should be coated with CRC Stor & Lube. Open conduit connections should be plugged or capped to atmosphere and the enclosure door should be securely tightened to ensure sealing integrity.

2.3 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 in the associated cut sheet.

3 ASSEMBLY

PEBCO®'s Double Flapper Valves are completely assembled.

4 INSTALLATION

PEBCO®'s bulk material handling gates and valves are designed with flange type mountings at the inlet and outlet openings. This facilitates easy and simple installation on a wide range of material storage and transfer systems.

The double flapper valve is a precision piece of equipment operating with small internal clearances. The following will aid the installer in installation without putting any undue distortion in the gate housing:

1. Check for straightness of the flanges on which the gate or valve is to be mounted. Remove any old sealing material or materials that would prevent a flush contact between new and old flanges.
2. Check the alignment of the bolt holes to determine if the bolt holes will match correctly. Do not attempt to correct alignment by drilling through the gate/valve flange as this will possibly weaken the flange and result in a poor seal.
3. Attach the gasket material or sealing compound. Use a sealant that is compatible with the particular system and material requirements.
4. Position the gate relative to the adjoining flanges.
5. Install the mounting bolts. Use only a high grade hex-head bolt with an equal grade of nut, flat and lock washer. A thread locking compound is suggested if vibration is present.

NOTE: Bevel washers are recommended on flanges in structural channels.

6. Before attaching the double flapper valve to the system, visually inspect the interior of the double flapper valve for any foreign materials that could cause the gate to bind up when put into operation.

5 WARRANTY

WARRANTY: PEBCO® DOUBLE FLAPPER VALVES

WARRANTY

PEBCO® warrants to purchaser, upon the terms set forth, that the equipment purchased, so far as the same is of PEBCO®'s manufacture, is free from defects in material and workmanship under normal use and service for a period of twelve (12) months from the date of shipment. All equipment, including motors, manufactured by others, is warranted solely and exclusively by their manufacturers and not by PEBCO®, and PEBCO® hereby assigns to purchaser without recourse to PEBCO® such warranty as is given by the manufacturer.

TERMS

PEBCO®'s obligation under this warranty is limited to and shall be fully discharged by PEBCO® repairing or at its option replacing f.o.b. point of manufacturer any part which is shown to PEBCO®'s satisfaction to have been defective as to material or workmanship, provided that written notice of defect is delivered to PEBCO®'s office in Paducah, Kentucky, within sixty (60) days after defect is discovered, and in no event more than twelve (12) months and sixty (60) days after shipment.

PURCHASER'S ACTS VOIDING WARRANTY

The warranty furnished by PEBCO® herein will be rendered void by improper erection or installation, if executed by other than PEBCO®, misuse, unauthorized alteration, substitutions, repairs or modifications, neglect or accident, or damage to the equipment caused by improper storage, abrasion, corrosion, and/or operation outside the rated load limitations for use of the equipment. PEBCO® shall not be liable for any repairs, replacements or adjustments to the equipment or any cost of labor performed by the purchaser or others without PEBCO®'s prior written approval.

EXCLUSION OF ALL OTHER WARRANTIES AND LIMITATION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

1. THE WARRANTY FURNISHED BY PEBCO® AS EXPRESSLY INCLUDED HEREIN IS IN LIEU OF ANY OTHER WARRANTIES OR GUARANTIES EXPRESSED OR IMPLIED. PEBCO® MAKES NO OTHER WARRANTY OR REPRESENTATION OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF DESIGN, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.
2. IN NO EVENT, BE IT DUE TO A BREACH OF WARRANTY OR ANY OTHER CAUSE ARISING OUT OF PERFORMANCE OR NONPERFORMANCE OF THIS PROPOSAL OR CONTRACT, SHALL PEBCO® BE LIABLE FOR (1) CONSEQUENTIAL OR INDIRECT LOSS OR DAMAGE INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, COSTS TO PURCHASE SUBSTITUTE POWER, PLANT DOWNTIME, PRODUCTION, INCREASED COSTS OF OPERATION, OR SPOILAGE OF MATERIAL, OR (2) LOSS OR DAMAGE ARISING OUT OF THE NEGLIGENCE OF THE PURCHASER, ITS EMPLOYEES, AGENTS, ENGINEERS OR ARCHITECT.