



INSTALLATION, OPERATION, & MAINTENANCE OF APOLLO BARSTOCK VALVES

PRE-INSTALLATION

Prior to installation, it is imperative that compatibility between valve construction materials and the media being used is verified. Valve and/or nameplate markings should be reviewed to ensure that the valve is properly rated for the intended service.

The valve should be examined visually and manually operated prior to installation. Particular attention should be paid to pipe threads to make sure there are no foreign materials or defects.

INSTALLATION

It is extremely important to make certain that the valve and piping being installed are properly supported, and that the valve and piping are properly aligned.

Globe valves have an arrow stamped on the side of the body indicating flow direction. Care must be taken to ensure that the inlet end is against the line pressure.

Once installation is complete, it is recommended that the entire system be pressurized and inspected for leakage. If leakage is detected, the valve and/or piping should be repaired or replaced prior to being placed into service.

ROUTINE INSPECTION AND MAINTENANCE

Periodic inspection of critical leak path areas such as the body/bonnet joint, end connections, and around the stem packing is required.

The most common area for leakage is around the stem packing due to normal wear. Stem leakage can generally be stopped by adjusting the packing. This is accomplished by turning the packing nut in quarter-turn increments until leakage stops. If leakage cannot be stopped by adjusting the packing nut, replacement of the stem packing is required (refer to the Repair section).

REPLACEMENT PARTS

It is recommended to use only genuine Apollo replacement parts. These parts are usually available from stock and are manufactured to the same specifications as those originally supplied with Apollo valves. Information obtained from markings on the valve body and nameplate is useful when ordering replacement parts from your local Apollo distributor.

FIELD REPAIR

STEM LEAKAGE

The most common area of leakage is around the stem and packing. Adjusting the packing nut can normally stop most leakage issues. If tightening the packing nut does not stop the stem leakage, the stem packing must be replaced.

All Apollo globe valves are equipped with backseats which are 100% tested prior to shipment. However, once the valve is put into service, corrosion and foreign material can affect the sealing integrity of the backseat. Therefore, **REPACKING UNDER PRESSURE CAN BE HAZARDOUS**. For this reason, Conbraco strongly recommends that the system and valve be depressurized before attempting any repair work. After isolating the valve from pressure, the following procedure should be used to repack the valve.



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1. Remove the handwheel or handle nut (1), handwheel or handle (2), packing nut (3), and packing gland (4) and packing washer (5), if applicable.
2. Remove the old stem packing (6). Care should be taken not to scratch or damage the stem or stuffing box.
3. Clean and inspect the stem, stuffing box, and gland. Parts should be replaced if any heavy scratches, nicks, or corrosion are found.
4. Install the new stem packing.
5. Replace the packing washer (5), if applicable, the packing gland (4), packing nut (3), handwheel or handle (2), and handwheel or handle nut (1).
6. Tighten the packing nut until the packing is lightly compressed. Cycle the valve several times.
7. If slight stem leakage occurs after the system is pressurized, continue tightening the packing nut in quarter-turn increments until the leakage stops.

