

MAINTENANCE:

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Do not attempt to perform maintenance on valves in pressurized lines.

Stem Seal Adjustment:

If leakage is evident from the stem packing area, tighten the packing gland (below the handle) 1/8 turn. If the leakage persists, repeat tightening. If leakage cannot be corrected by tightening the gland, replacement of the stem seals will be necessary.

Seal Replacement:

Turn valve to the open position and remove handle nut, lock washer, and handle. Loosen and remove packing gland from valve body.

Loosen and remove body bolts, and remove body center section assembly, placing it on a suitable work surface. Remove seats and body seals.

Using the handle if necessary, turn ball to the closed position, and remove ball from body with a rolling motion away from the stem. Handle ball with care to avoid damaging the surface.

Push downwards on the top of the stem to slide it through the stem seals, and remove stem from inside body bore. Remove thrust washer from stem, or from body bore if retained in body. Remove stem seals using a packing hook or sharp object.

Sharpe recommends that all soft parts, including seats be replaced with new parts, which can be ordered in kit form.

REASSEMBLY:

Make sure all valve components are clean and undamaged before assembly.

Install thrust washer on stem, and slide down to shoulder. Insert stem into body and upwards

through the stem bore until the shoulder is seated in the bore.

Slide stem seal over stem top, and into stem bore in body. Take care not to damage seal on stem threads. Install packing gland, and tighten finger tight.

Place stem in the "closed" position, and install the ball carefully by rolling the stem tang into the ball slot.

Install seats in the body at both ends, making sure the concave face fits against the ball, and press the body seals into the grooves in the body faces.

Turn ball to the "open" position, and replace between the end caps in line. Slide body hex bolts through end caps and body guide holes, and secure with lock washers and hex nuts. Tighten snugly.

Tighten packing gland to the torque value given in the table below, and replace the handle, lock washer, and handle nut.

Tighten the body bolting to the torque values given in the table below, using a cross or star pattern to tighten evenly.

Table 1 – Assembly Torques

Valve Size	Gland Torque (in-lb)	Body Bolt Torque (in-lb)
1/4" – 3/8"	35	50
1/2"	35	110
3/4" – 1"	80	115
1-1/4" – 1-1/2"	115	120
2"	115	125
2-1/2"	250	350
3" – 4"	350	460

SHARPE VALVES

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