

BU-3055

Maintenance Instructions for Manual Valve  
Catalog Number ALPV41V

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1.0 References

1.1 Applicable valve assembly drawing B-1711, latest revision.

2.0 Purpose

2.1 To establish maintenance instructions for the manual valve shown on assembly drawing B-1711, latest revision.

3.0 Scope

3.1 This maintenance procedure to be used for all valves shown on assembly drawing B-1711, latest revision.

4.0 Instructions (disassembly)

4.1 Loosen side connections and remove valve from system.

4.1.1 Important Note:

Before removing valve from system, vent all pressure.

4.2 Place valve assembly in vise equipped with "soft jaws" and tighten vise.

4.3 Turn valve handle (item 7) counterclockwise until stem is in the fully open position.

4.4 Insert standard 3/16" hex wrench into the hex set scr (item 8) and loosen the set scr. Remove handle (item 7) from the stem assembly (item 2).

4.5 Insert flat bladed screwdriver into slotted fillister head machine screw (item 10) and loosen the machine screw. Remove machine screw and locking device (item 9) from valve assembly.

4.6 Place a 13/16" open-ended wrench on the packing gland (item 3). Turn the packing gland counterclockwise to loosen and continue to turn until the packing gland is disengaged from the valve body (item 1).

- 4.7 Grasp both the stem assembly (item 2) and the packing gland (item 3) with your fingers and carefully remove both items from the valve body (item 1). Unscrew the packing gland (item 3) from the stem assembly (item 2).
  - 4.8 Utilizing a small hook like device, remove the top packing washer (item 4), packing (item 5) and bottom washer (item 6) from the valve body (item 1).
- 5.0 Instructions (assembly)
- 5.1 Lightly lubricate the external threads of the stem assembly (item 2) and the external threads of the packing gland (item 3) with "Christo-Lube" and/or "Moly-Coat" type lubricant.
  - 5.2 Insert stem assembly (item 2) into the packing gland (item 3) and screw together until the threads bottom out.
  - 5.3 insert bottom washer (item 6) and packing (item 5) into the stuffing box of the valve body (item 1).
  - 5.4 Place the top packing washer (item 4) on the stem assembly and packing gland subassembly.  
  
Note: Large diameter of top packing washer is to be closest to packing gland. See assembly drawing for correct orientation.
  - 5.5 Carefully insert stem assembly, packing gland and top packing washer subassembly into the stuffing box of the valve body (item 1).
  - 5.6 Grasp both the stem assembly (item 2) and the packing gland (item 3) with your fingers, and screw the packing gland into the valve body until finger tight.
  - 5.7 Place a 13/16" open-ended wrench on the packing gland (item 3) and tighten the packing gland. Using a torque wrench with a 13/16" "crows foot", torque the packing gland as required. Approx. torque -- 45 Ft. Lbs.
  - 5.8 Reattach the locking devices (item 9) and the slotted fillister head machine screws (item 10) to the valve assembly and with a flat bladed screwdriver, tighten the machine screws (item 10).

- 5.9 Insert standard 3/16" hex wrench into the hex soc set scr (item 8) and after placing the handle (item 7) on the stem assembly tighten the hex soc set scr until handle is firmly attached.
- 5.10 Advance stem until valve is closed. Loosen vise and remove valve assembly.

General Note:

Recommend refurbished valve to be pressure tested to working pressure before it is returned to service.