

BU-3053
MAINTENANCE INSTRUCTIONS FOR
10JV41V-LT VALVE

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1.0 REFERENCE

1.1 Valve Assembly Drawing C-1722, Latest Revision

1.2 Stem Assembly Drawing B-1601, Latest Revision

2.0 PURPOSE

2.1 To establish maintenance instructions for the 10JV41V-LT valve assembly.

3.0 SCOPE

3.1 These maintenance instructions are to be used for all 10JV41V-LT valve assemblies.

4.0 INSTRUCTIONS

CAUTION: Vent all pressure from system before removing valve for maintenance.

4.1 Disassembly

4.1.1 Remove valve assembly from system and place valve body in vise equipped with "Soft Jaws" and tighten vise.

4.1.2 Turn valve handle (item 5) counterclockwise to open valve.

NOTE: Maintain the open position to avoid damage to the seat or stem.

4.1.3 Place appropriate wrench on locknut (item 11) at base of housing and turn locknut (item 11) counterclockwise until threads "bottom out."

4.1.4 Place appropriate wrench on the hex flats of the cylindrical housing (item 2) and turn housing (item 2) counterclockwise until housing (item 2) is free from the body (item 1).

4.1.5 Carefully remove housing sub-assembly and lens ring (item 10) from the body (item 1).

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- 4.1.6 Remove valve body (item 1) from the vise and place the housing sub-assembly in the vise.

CAUTION: The housing subassembly is to be placed in the vise at approximately 45 degrees so as to ensure free movement of the packing gland (item 4) and the lens ring (item 10).

- 4.1.7 Insert standard 3/16" hex wrench into the hex socket set screw (item 6) and turn counterclockwise until handle (item 5) and set screw (item 6) are disengaged from housing subassembly.
- 4.1.8 Place appropriate wrench on the hex jam nut(s) (item 4) and turn counterclockwise until disengaged from the vee stem (item 1). Remove the hex jam nut(s) (item 4) and the bearing washer (item 3) from the vee stem (item 1).
- 4.1.9 Place appropriate wrench on the locknut (item 11) and turn the locknut (item 11) counterclockwise to loosen.
- 4.1.10 Place appropriate wrench on the packing gland (item 4) and turn the packing gland (item 4) counterclockwise to loosen. Grasp the stem (item 1) and the lens ring (item 10) with your fingers and remove both items from the housing sub-assembly.
- 4.1.11 Place appropriate wrench on the hex flats of the packing gland (item 4) and rotate the packing gland (item 4) counterclockwise, until the packing gland (item 4), the locknut (item 11) and the stem sleeve (item 2) are disengaged from the housing sub-assembly.
- 4.1.12 With a hook-like device, remove the bearing washer (item 3), the top packing washer (item 7), the three rings of packing (item 8) and the three bottom washers (item 9) from the cylindrical housing (item 2).
- 4.1.13 Inspect all components for extrusion, wear or defect and replace all defective parts.

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4.2 Reassembly

- 4.2.1 Gather all components, including all new ones required to reassemble valve. Utilizing the applicable valve assembly drawing, check the quantity and condition of all valve components.
- 4.2.2 Lubricate top and bottom surfaces of the lens ring (item 11) and slide the lens ring (item 10) onto the stem (item 1). Lightly lubricate the packing area of the stem (item 1).
- 4.2.3 Insert the stem (item 1) and the lens ring (item 10) into the packing gland (item 4) and locknut (item 11) subassembly. Slide the three bottom washers (items 9), the three rings of packing (items 8) together with the top packing washer (item 9) into the housing (item 2).
- 4.2.4 Lubricate the bearing surfaces of the bearing washer (item 3) and slide it onto the stem (item 1). Lubricate the first three external threads of the packing gland (item 4) and slide the packing gland sub-assembly onto the stem (item 1).
- 4.2.5 Engage the external threads of the packing gland (item 4) with the internal threads of the housing (item 2) and rotate the packing gland (item 4) clockwise until it is fingertight.
- 4.2.6 Torque the packing gland (item 4) approximately 50 ft. lbs. Tighten the locknut (item 11) against the housing (item 2). Lubricate the bearing surfaces of the bearing washer (item 3) and slide it onto the threaded portion of the stem (item 1).
- 4.2.7 Screw one hex jam nut (item 4) onto the stem (item 1) and tighten fingertight. Now, loosen the previously tightened jam nut 1/6 of a turn.

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- 4.2.8 Place an appropriate open-ended wrench on the adjusted hex jam nut (item 4) and screw the second hex jam nut (item 4) onto the stem (item 1).

NOTE: The stem sleeve should rotate freely on the stem.

- 4.2.9 Remove the housing sub-assembly from the vise. Lubricate the first three external threads of the housing (item 2) and engage the threads with the body (item 1).
- 4.2.10 Place body and housing sub-assembly in vise equipped with "Soft Jaws" and tighten vise. Tighten and torque housing to approximately 100 ft. lbs. and tighten locknut (item 11) against body (item 1).
- 4.2.11 Place handle (item 5) over the stem (item 1) and align the hex socket set screw (item 6) with the flat on the stem sleeve (item 2). Insert standard 3/16" hex wrench into the hex socket set screw (item 6) and tighten against flat on the stem sleeve (item 2).
- 4.2.12 Install refurbished valve into system. Pressurize valve to test for leakage and adjust as required.

RECORD OF REVISIONS

REV NO	DESCRIPTION OF CHANGES	DATE	BY	APPR
0	Original document			