



**BU-3052**

**MAINTENANCE INSTRUCTIONS FOR JSV-P\* SERIES**  
**MANUAL NEEDLE VALVES**

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## 1.0 REFERENCE

- 1.1 Applicable Assembly Drawings B-1888 and B-1330, latest revisions.
- 1.2 Stem Assembly Drawings B-1665 and B-1331, latest revisions.

## 2.0 PURPOSE

- 2.1 To establish maintenance instructions for JSV-P\* needle valves.

## 3.0 SCOPE

- 3.1 This maintenance instruction (BU-3052) is to be used for all JSV-P\* needle valves.

## 4.0 INSTRUCTIONS

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

- 4.1 Disassembly
  - 4.1.1 Remove valve from system.
  - 4.1.2 Secure the valve assembly in a vise equipped with "soft jaws".
  - 4.1.3 Turn the valve handle (item 10) counterclockwise until the valve stem is in the full open position.
  - 4.1.4 Loosen the hex socket set screw (item 11) securing the handle assembly to the stem. Remove the handle.
  - 4.1.5 Remove the slotted machine screw (item 13) and locking device (item 12) from the body (item 1).
  - 4.1.6 Loosen and remove the packing gland (item 2) and stem assembly from the valve body.
  - 4.1.7 Remove the packing gland from the stem assembly by turning counterclockwise until the threads are disengaged
  - 4.1.8 Use a packing puller to remove the top packing washer (item, 4), packing (items 5), lantern (item 7) and bottom washer (item 6) from the body. Be careful not to scratch the stuffing box.
  - 4.1.9 Loosen and remove the seat retainer (item 9) and soft seat (item 8). Use a packing puller to remove the soft seat from the retainer.

## 4.2 Assembly

- 4.2.1 Examine the repair kit components for damage and cleanliness. Replace any damaged components.
- 4.2.2 Apply an approved lubricant (anti-galling) to the components of the stem assembly (sub-assembly) as follows:
  - 4.2.2.1 The outside diameter of the stem below the threads.
  - 4.2.2.2 The external threads of the stem sleeve (item 2) of the stem assembly (item 3).
  - 4.2.2.3 The first three external threads of the packing gland (item 2).
  - 4.2.2.3 The first three external threads of the seat retainer (item 9).
- 4.2.3 Grasp the lubricated stem assembly with your fingers and insert it into the packing gland. Rotate the packing gland clockwise until the internal threads are completely engaged.
  - 4.2.3.1 Important - Rotate the packing gland clockwise until the stem threads bottom out in the packing gland.
- 4.2.4 Install the packing gland and stem/packing/lantern assembly into the body according to the assembly print and tighten to approximately 30 lb-ft.
- 4.2.5 Reattach and tighten the locking device.
- 4.2.6 Reattach the handle to the stem sleeve.

**CAUTION: Align the handle with the machined flats on the stem sleeve before tightening.**

- 4.2.7 Press the replacement soft seat into the seat retainer. Re-install into body and tighten to approximately 20 lb-ft.
- 4.2.8 Turn handle clockwise to close valve. Loosen vise and remove refurbished valve assembly.

**General Note: Butech Pressure Systems recommends that refurbished valves be pressure tested before being returned to service.**



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**RECORD OF REVISIONS**

<b>REV NO</b>	<b>DESCRIPTION OF CHANGES</b>	<b>DATE</b>	<b>BY</b>	<b>APPR</b>
0	Original document	15-Jul-94	RWF	RAC
1	Re-formatted	13-Jun-03	DTG	DTG