

BU-3096

MAINTENANCE INSTRUCTIONS FOR 6OUV4* AND 6OUV6* SERIES NEEDLE VALVE

TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE NUMBER</u>
1.0	Reference	2
2.0	Purpose	2
3.0	Scope	2
4.0	Instructions	2-4
5.0	Record of Revision	5

BU-3096

1.0 REFERENCE

- 1.1 Applicable Assembly Drawing B-1590, REV. 2 AND B-1653 REV. 2.
- 1.2 Stem Assembly Drawing B-1597, latest revision

2.0 PURPOSE

- 2.1 To establish maintenance instructions for 6OUV4* and 6OUV6* series needle valves.

3.0 SCOPE

- 3.1 This maintenance instruction (BU-3096) is to be used for all 6OUV4* and 6OUV6* series needle valves.

4.0 INSTRUCTIONS

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

4.1 Disassembly

- 4.1.1 To remove valve from system, loosen gland (item 13) by turning counterclockwise until gland threads are completely disengaged from the body (item 1). This will allow the valve assembly to be removed from the system.
- 4.1.2 Place valve assembly in vise equipped with "soft jaws" and tighten vise.
- 4.1.3 Turn valve handle (item 8) counterclockwise until the valve stem is in the full open position.
- 4.1.4 Insert standard 3/16" hex wrench into the hex soc set scr. (item 9) located inside the valve handle (item 8) and turn counterclockwise until set scr is loosened.
- 4.1.5 Remove valve handle from stem assembly.
- 4.1.6 Insert standard flat-blade screw driver into the slotted fillister head machine screw (item 11). Turn screw driver until fillister head machine screw is loosened. Remove fillister head machine screw and locking device (item 10) from body.

- 4.1.7 Place an appropriate open-ended wrench on the flats of the packing gland (item 7). Turn open-ended wrench counterclockwise until packing gland threads are disengaged from the valve body.
- 4.1.8 Grasp the stem assembly (item 2) and packing gland with your fingers and carefully remove both items from the valve body.
- 4.1.8.1 Remove the packing gland from the stem assembly by turning counterclockwise until the threads are disengaged.
- 4.1.9 Remove top packing washer (item 3). Using a packing puller, carefully remove the packing (items 4 and 5) and bottom washer (item 6). Do not scratch the sides of the stuffing with the packing puller.

4.2 ASSEMBLY

- 4.2.1 The assembly technician shall, as a minimum, check all repair kit components for the following:
- 4.2.1.1 Cleanliness
- 4.2.1.2 Nicks, dents and/or scratches
- CAUTION: All damaged components are to be replaced.
- 4.2.2 Referring to drawing B-1597, the assembly technician shall lubricate all components of the stem assembly (subassembly) with an approved lubricant as follows:
- 4.2.2.1 Bottom washer (item 3) shall be lightly lubricated on the outside diameter.
- 4.2.2.2 Stem sleeve (item 2) of the stem assembly (item 3) shall be lightly lubricated on the external threads.
- 4.2.2.3 Packing gland (item 7) shall be lightly lubricated on the first three internal threads.
- 4.2.3 Repack the valve using a replacement packing set including top and bottom washers.

4.2.4 Grasp the lubricated stem assembly (sub-assembly) with your fingers and insert the sub-assembly into the packing gland (item 7). Rotate the packing gland clockwise until the internal threads are engaged.

4.2.4.1 Rotate the packing gland clockwise until the internal threads of the packing gland "bottom out."

4.2.5 Carefully align the stem assembly (sub-assembly) with the opening in the valve body and rotate the packing gland until the external threads are engaged.

4.2.6 Place an appropriate open-ended wrench on the flats of the packing gland. Turn the open-ended wrench clockwise until the packing gland is tight in the body.

4.2.7 Using a torque wrench, torque the packing gland to 45 lb-ft.

4.2.8 Reattach the locking device (item 10) and the fillister head machine screw (item 11) to the valve body (item 1).

4.2.9 Reattach the handle (item 8) and hex soc set scr (item 9) to the stem sleeve of the stem assembly (item 3).

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

4.2.8.1 Insert standard 3/16" hex wrench into the hex soc set scr and tighten the screw.

4.2.10 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.

RECORD OF REVISIONS

REV NO	DESCRIPTION OF CHANGES	DATE	BY	APPR
0	Original document	5/3/99		