



BU-3044

*Maintenance Instructions for SLPV4\*, SLPV6\*, SFPV4\*, DHP4\*, DHP6\*, DHP8\*,  
20UV4\*, 20UV6\* Series Manually Operated Needle Valves*

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	2-3
5.0	Record of Revision	4

## 1.0 REFERENCE

1.1 Assembly reference drawings, latest revisions:

B-1789 for SLPV41V/R	B-1483 for SLPV61V/R
B-1667 for SFPV41V/R	B-1709 for DHP4F/FR
B-1758 for DHP6F/FR	B-1763 for DHP8F/FR
B-1664 for 20UV41V/R	B-1805 for 20UV61V/R

1.2 Stem assembly drawings B-1419 and B-1471, latest revisions.

## 2.0 PURPOSE

2.1 To establish maintenance instructions for SLPV4\*, SLPV6\*, SFPV4\*, DHP4\*, DHP6\*, DHP8\*, 20UV4\*, 20UV6\* Series Manually Operated Needle Valves.

## 3.0 SCOPE

3.1 This maintenance instruction (BU-3044) is to be used for all SLPV4\*, SLPV6\*, SFPV4\*, DHP4\*, DHP6\*, DHP8\*, 20UV4\*, 20UV6\* Series Manually Operated Needle Valves.

## 4.0 INSTRUCTIONS

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

4.1 Disassembly

4.1.1 Fixture valve in a vise equipped with “soft jaws”.

4.1.2 Turn the valve handle (item 9) counterclockwise until the valve stem is in the full open position.

4.1.3 Loosen the set screw (item 10) securing the handle to the stem. Remove the handle assembly.

4.1.4 Remove the slotted machine screw (item 7) and locking device (item 8) from the body (item 1).

4.1.5 Remove the packing gland (item 2) from the body and stem assembly by turning counterclockwise until the threads are disengaged.

4.1.6 Re-attach the handle and secure with the set screw. Grasping the handle carefully pull the stem with the attached packing set from the body.

4.1.7 Remove the set screw and handle from the stem assembly.

## 4.2 Assembly

- 4.2.1 Examine the repair kit components for damage and cleanliness.
- 4.2.2 Apply an approved lubricant (anti-galling) to the components of the stem and packing components as follows:
  - 4.2.2.1 The outside edge of the bottom washer (item 5).
  - 4.2.2.2 The external stem sleeve (item 2) threads of the stem assembly (item 3).
  - 4.2.2.3 The first three external threads of the packing gland (item 2).
- 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 components into the body and tighten packing gland to approximately 35 to 45 lb-ft.
- 4.2.5 Reattach and tighten the locking device (items 7 and 8).
- 4.2.6 Reattach the handle (item 9) to the stem. Secure with set screw (item 10).
- 4.2.7 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**

<b>REV NO</b>	<b>DESCRIPTION OF CHANGES</b>	<b>DATE</b>	<b>BY</b>	<b>APPR</b>
0	Original document	15-Feb-93	RWF	BJB
1	Reformatted and updated.	10-Dec-02	DTG	DTG
2	Added valves of similar construction to the procedure.	05-Nov-03	DTG	DTG