



BU-3154

MAINTENANCE INSTRUCTIONS FOR 60UV46V-STS-SRS-ATC5
AIR-OPERATED NEEDLE VALVE

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1.0 REFERENCE

- 1.1 Assembly Drawing C-2348.
- 1.2 BU-3057 - Maintenance instructions for ATO* and ATC* air actuators.

2.0 PURPOSE

- 3.1 To establish maintenance instructions for the 60UV46V-STS-SRS-ATC5 air-operated needle valves:

3.0 SCOPE

- 3.1 This maintenance instruction (BU-31542) is to be used for the 60UV46V-STS-SRS-ATC5 actuated needle valves.

4.0 INSTRUCTIONS

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

4.1 DISASSEMBLY

- 4.1.1 Remove valve from system and place in a vise equipped with "soft jaws".
- 4.1.2 Loosen and remove hex socket cap screws (items 10 and 19) that hold the locking device (item 20) and bottom mounting plate (item 18) to the valve body (item 2).
- 4.1.3 Loosen hex jam nut (item 11) and rotate actuator and bottom plate subassembly counterclockwise until coupling (item 5) disengages from the stem (item 4).
- 4.1.4 Remove actuator and bottom plate subassembly from valve body (item 2). Refer to BU-3057 for instructions on the maintenance of the actuator assembly.
- 4.1.5 Remove hex nut (item 11) from stem. Loosen and remove the packing gland (item 3) from the body.
- 4.1.6 Using a packing puller, carefully remove the top packing washer (item 6), packing (items 7 and 8), and bottom washer (item 9) from the body. Be careful not to scratch the surface of the body packing bore.



4.1.9 Loosen and remove the seat retainer (item 13) and seat (item 12) from the body.

4.2 ASSEMBLY

- 4.2.1 The assembly technician shall, as a minimum check all repair kit components for the cleanliness and damage such as nicks, dents or scratches.
- 4.2.2 The assembly technician shall lubricate selected components of the valve assembly with an approved lubricant as follows:
- 4.2.2.1 The stem (item 4) shank in the area of the packing.
 - 4.2.2.2 The external threads of the packing gland (item 3).
 - 4.2.2.3 The angled faces of the replaceable seat (item 12).
 - 4.2.2.4 The external threads of the seat retainer (item 13).
- 4.2.3 Slip the bottom washer (item 9), packing (items 7 and 8) and top packing washer (item 6) into the body packing bore.
- 4.2.4 Place the packing gland (item 3) over the stem. Thread into body and tighten to approximately 50 lb-ft. Thread hex nut (item 11) to shoulder on the stem.
- 4.2.5 Grasping the actuator and plate assembly, carefully align and engage the stem with the coupling (item 5). Rotate the actuator and bottom plate sub-assembly clockwise until the bottom plate (item 18) contacts the body.
- 4.2.6 Install and tighten the hex socket cap screws (item 10 and 19) that hold the bottom plate (item 13) and locking device (item 20) to the body.
- 4.2.7 Tighten the hex jam nut (item 11) against coupling (item 5).
- 4.2.8 Replace the seat (item 12) and seat retainer (item 13). Tighten to approximately 35 lb-ft.

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	10/07/02	DTG	DTG