



BU-3162

MAINTENANCE INSTRUCTIONS FOR LPSC* and 20SC* SERIES O-RING CHECK VALVES

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1.0 REFERENCE

1.1 Applicable Assembly Drawings, latest revisions:

LPSC2	B-1439	LPSC4	B-1246	LPSC6	B-1498	LPSC8	B-1567
20SC4	B-1626	20SC6	B-1573	20SC9	B-1535	20SC12	B-1263
20SC16	B-2275						

2.0 PURPOSE

2.1 To establish maintenance instructions for BuTech LPSC* and 20SC* Series O-Ring Check Valves.

3.0 SCOPE

3.1 This maintenance instruction (BU-3162) is to be used for all BuTech LPSC* and 20SC* Series O-Ring Check 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 and secure in a vise equipped with "soft jaws".

4.1.2 Loosen and remove the gland nut and cover.

4.1.3 Remove from vise, invert and remove poppet and spring.

4.2 Assembly

4.2.1 Examine the repair kit components for damage and cleanliness.

CAUTION: *All damaged components are to be replaced.*

4.2.2 Apply an approved lubricant (anti-galling) to the components of the valve assembly as follows:

4.2.2.1 The external threads and the cover bearing surface of the gland.

4.2.2.2 The angled face of the cover.

- 4.2 Assembly (continued)
- 4.2.3 Apply an approved o-ring lubricant to the poppet o-ring.
- 4.2.4 Install the spring and poppet into the valve body.
- 4.2.5 Insert the cover into the gland. Engage the threads of the gland into the body and tighten (hand tight).
- 4.2.6 Secure the valve assembly in a vise equipped with "soft jaws". Tighten the gland to the following torque requirement for the applicable valve.
- | | |
|--------------------|---------------|
| LPSC2, 4 and 20SC4 | 40-45 lb-ft |
| LPSC6 and 20SC6 | 50-55 lb-ft |
| LPSC8 and 20SC9 | 55-60 lb-ft |
| 20SC12 | 80-85 lb-ft |
| 20SC16 | 280-300 lb-ft |

General Note

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

RECORD OF REVISION

REV NO	DESCRIPTION OF CHANGES	DATE	BY	APPR
0	Original document	28-Mar-03	DTG	DTG
1	Added LPSC* Series Check Valves. Deleted para. 4.2.2.3, application of lubricant to the inside diameter of the replacement poppet.	18-Dec-03	DTG	DTG