



BU-3161

MAINTENANCE INSTRUCTIONS FOR 20BC* SERIES BALL CHECK VALVES

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1.0 REFERENCE

1.1 Applicable Assembly Drawings, latest revisions:

20BC4	B-1627	20BC12	B-1122
20BC6	B-1575	20BC16	B-1979
20BC9	B-1582		

2.0 PURPOSE

2.1 To establish maintenance instructions for BuTech 20BC* Series Ball Check Valves.

3.0 SCOPE

3.1 This maintenance instruction (BU-3161) is to be used for all BuTech 20BC* Series Ball 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.
- 4.1.2 Secure the valve assembly in a vise equipped with "soft jaws".
- 4.1.3 Loosen and remove the gland (item 2) and cover (item 3).
- 4.1.4 Remove from vise, invert and remove poppet (item 4) and spring (item 5).

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.
- 4.2.2.3 The inside diameter of the replacement poppet.

4.2 Assembly (continued)

4.2.3 Install the spring and poppet into the valve body.

4.2.4 Insert the cover into the gland. Engage the threads of the gland into the body and tighten (hand tight).

4.2.5 Secure the valve assembly in a vise equipped with "soft jaws". Tighten the gland to the following torque requirement for the applicable valve.

20BC4	40-45 lb-ft	20BC12	80-85 lb-ft
20BC6	50-55 lb-ft	20BC16	280-300 lb-ft
20BC9	55-60 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	28-Mar-03	DTG	DTG