

Installation, Operating and Maintenance Instructions Supplement

17/2.5.3.A Rev. 1

ER 67609 5/2/22

CV8 SUPPLEMENT

Topworks Kit Installation

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INSTALLATION

1) Isolate valve from system pressure and bleed off any excess pressure in the valve.

WARNING: Injury or death can occur due to failure to completely isolate valve from all sources of pressure before beginning disassembly. Do not proceed until valve has been completely isolated from process stream and vented to atmosphere.

- 2) Remove bonnet bolts and lock washers. (Item 1 & 2).
- 3) Carefully remove the entire top works assembly from valve body weldment.
- 4) Remove bonnet gasket (Item 3) and clean gasket seal surface.
- 5) Inspect seat surface inside valve body for any scratches, marks or debris of any kind.
 Clean and reface to 32 rms. finish as required.

- 6) Lightly coat o-ring (Item 4) with Krytox® or equivalent.
- 7) Install bonnet gasket (Item 3) in bonnet counter bore.
- 8) Gently insert top works assembly into valve body, taking care not to damage the seat seal, bonnet gasket and o-ring.
- 9) Insert hex head bonnet bolts (Item 1) with lock washers (Item 2) (lubricate bolt threads with Krytox® prior to installation).
- 10) Tighten bolts per Fig. 2 to the torque values indicated in Table 1 indicated on the drawing.
- 11) Run the valve through a few open-close cycles to insure smooth operation with no sticking, binding or galling.
- 12) Upon return of system pressure and first cool down, check packing nut and retighten as necessary.

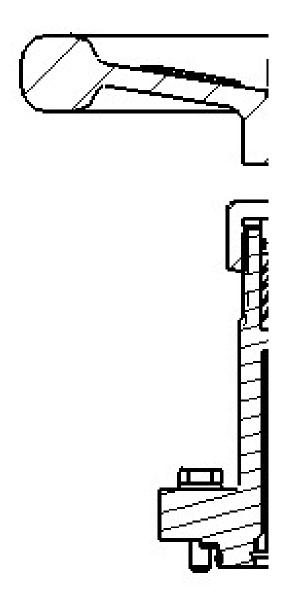
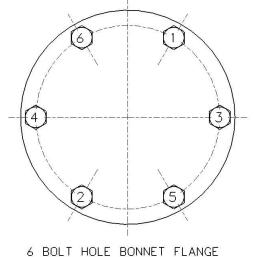


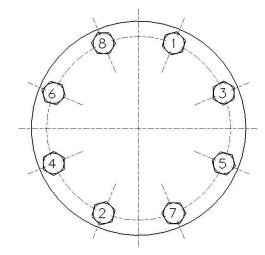


Figure 1 - Topworks Assembly



TORQUING SEQUENCE

1 to 2, 2 to 3, 3 to 4, 4 to 5, 5 to 6



8 BOLT HOLE BONNET FLANGE
TORQUING SEQUENCE
1 to 2, 2 to 3, 3 to 4, 4 to 5
5 to 6, 6 to 7, 7 to 8

TORQUE VALUES SHOULD BE CHECKED AFTER THE FIRST COLD CYCLE

AND RECHECKED ON AN ANNUAL BASIS OR AS NEEDED

Figure 2 - Bolt Torquing Sequence

Valve Size	Bonnet Bolts (in.lb.)
1/2 - 3/4	29
1	45
11/2 - 2	75
3	380

Table 1 – Bolt Torque Values

It is solely the responsibility of the system designer and the user to select products and materials suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Assistance shall be afforded with the selection of the materials based on the technical information supplied to CPC-Cryolab™; however, the system designer and user retain final responsibility. The designer should consider applicable Codes, material compatibility, product ratings and application details in the selection and application. Improper selection, application or use of the products described herein can cause personal injury or property damage. If the designer or user intends to use this product for an application or use other than originally specified, he must reconfirm that the selection is suitable for the new operating conditions. Life expectancy for this product defaults to the warranty period of the sales