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Technical Manual



EV-xxx-HT SERIES BAKEABLE VALVE

Use and Maintenance of Metal Bakeable Valves



NOTE: Huntington's EV-xxx-HT series bakeable valves are shipped in the closed position with an initial torque applied to form the soft copper gasket to the valve seat.

OPENING PROCEDURE:

1. Place a 5/8" wrench over the lead screw nut and turn in the counter-clockwise direction until reaching a hard stop. **DO NOT FORCE BEYOND HARD STOP**, as it could result in failure.
2. The valve can remain in the open position while in use and during thermal cycles up to 450°C (850°F).

CLOSING / SEALING PROCEDURE:

1. Preset a torque limiting wrench to 60 in-lb (5 ft-lb) of torque and lock torque setting for use.
2. Using the preset torque limiting wrench with 5/8" socket, place over the lead screw nut and turn in the clockwise direction until light seal contact is made.
3. Slowly torque to preset value of 60 in-lb (5 ft-lb) while careful not to over-torque.
4. The valve can remain in the closed position while in use and during thermal cycles up to 450°C (850°F).

NOTE: Position indication lines and an adjustable indicator collar are provided on top of the valve assembly for reference during the sealing procedure. Each valve is shipped pre-torqued with the indicator collar set to the first line of the indication range. With each seal cycle the indicator progresses forward through the indication range by differing amounts depending on process temperature, duration, open/closed, etc..

GASKET LIFESPAN:

- Gasket lifespan is directly limited by gasket thickness and total seal compression. Other factors like process temperature can greatly affect the rate at which the copper gasket is compressed during each seal cycle. As a rule of thumb the gasket should be replaced after moving through the range of indication two times. Once the indicator reaches the last mark, reset the indicator to the first mark and proceed through the range once more before replacing the gasket.

GASKET REPLACEMENT PROCEDURE:

1. Place a 5/8" wrench over the lead screw nut and turn in the counter-clockwise direction until reaching a hard stop in the fully open position. **DO NOT FORCE BEYOND HARD STOP**, as it could result in failure.
2. Using a large flat blade screwdriver, carefully insert through bottom port of valve and engage in slot of copper gasket.
3. Rotate counter-clockwise to fully unscrew the gasket from the actuator.
4. Feed gasket out through the side port of the valve.
5. Reverse procedure for installation of the new gasket, only a light torque is required for the gasket.
6. Follow Closing / Sealing Procedure above to seal valve with new gasket.