



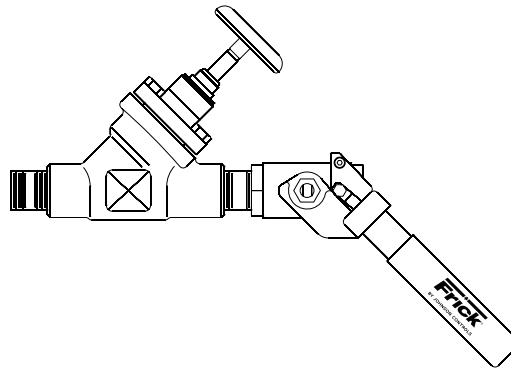
BY JOHNSON CONTROLS

160.804-SPC (APR 2009)

SPECIFICATIONS

File: EQUIPMENT MANUAL - Section 160
Replaces: 160-804 (APR 2009)
Dist: 3, 3a, 3b, 3c

SPRING RETURN VALVE ASSEMBLIES
FOR OIL DRAINING



DESCRIPTION

The Frick® Spring Return Valve assembly for oil draining consists of a hand shutoff valve and a spring return ball valve. A safety feature shuts off flow whenever the operator releases the handle. A specially designed vented ball prevents entrapment of liquid refrigerant in the ball. Conventional ball valves do not have this protection feature.

Frick® Spring Return Valve assemblies are available in 3/4" and 1" sizes. They are not recommended for connection to a smaller size.

BALL: Vented 316 stainless ball.

BODY: Cast carbon steel. Stamped arrow shows directional flow. It is important that the drain valve be installed in the correct direction to ensure proper venting of the ball.

SEAT: Multifill PTFE.

STEM PACKING: Multifill PTFE.

HANDLE: Spring loaded. Vinyl covered.

DESIGN WORKING LIMITS: Pressures to 400 PSIG. Temperature from -50°F to 300°F.

NIPPLES: Extra heavy (schedule 160) construction. Used to connect ball and hand valve and hand valve to vessel drain connection.

HAND VALVE: Handwheel/Seal Cap, Globe/Angle Valve with stainless steel stem.

OPERATION

The Oil Drain Valve arrangement is designed to be operated in conjunction with an upstream hand valve as follows:

- 1. Make sure that the hand valve is closed before opening the spring-loaded drain valve.
2. Open the drain valve.
3. While holding the drain valve in the open position, open the hand valve slowly to control flow of liquid into a suitable container.
4. When oil draining has been completed, first close the hand valve. Then close the drain valve.
5. Finally, open the drain valve one more time to remove any trapped liquid.

Table with 2 columns: Part Number and Description. Lists various Frick valve and nipple part numbers and their descriptions.

Note: For Socket Weld Handwheel or Seal Cap Valves or nipples contact Baltimore Parts.

Please check www.johnsoncontrols.com/frick for the latest version of this publication.

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