

Repair Instructions for RK-34 Live-Loading “SG” Series Water Gage Valve Sets

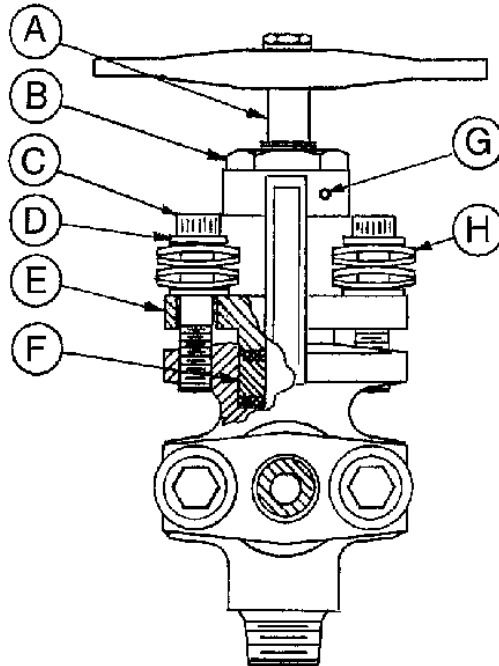


Fig. 1 - Live Loaded SG Valve

ITEM	QTY	DESCRIPTION
A	1	* Valve Stem
B	1	* Stem Bushing
C	2	Cap Screw
D	4	Flat Washer
E	1	* Packing Gland
F	1	Packing Cartridge
G	1	* Lock Screw
H	8	Spring Washer

* Indicates items not furnished in repair kit.

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Important:

Before proceeding, follow any and all plant lock out - tag out procedures required. If under pressure, the equipment should be isolated, or the boiler should be shut down before proceeding with the installation. Open drain valve to eliminate any trapped pressure. All inspection and installation steps should be performed by a qualified technician and should be executed in accordance with all applicable national and local codes.

When mounting Steel Water Gage Valves, make sure they are mounted in exact alignment, especially when tubular glass is used during Boil-out procedures. Any angular or offset misalignment of the valves will strain the tubular glass and may cause early failure. When installing the armored type gage glass, any misalignment could cause a leak from the packing cartridge that may result in damage to the valve or gage glass. When mounting the gage glass or tubular glass in vertical mounting applications, the overall length of the gage should be 3 ¼" less than the valve centers.

INSTALLATION OF RK-34 LIVE LOAD KIT PROCEDURE

- 1) Remove stem bushing locking set screw (Item G); loosen with a 5/32" hex wrench to clear bushing threads.
- 2) Remove and discard the old cap screws and flat washer from the packing gland.
- 3) Remove the stem bushing (Item B) along with the valve stem (Item A).
- 4) Remove the packing gland (Item E) and the stem packing cartridge (Item F).
- 5) Examine the stem and the packing chamber for pitting or steam cut. Polish the components as necessary with a fine emery cloth. If the damage is too severe, the valves must be replaced.
- 6) Install the new packing cartridge (P/N SG854-4).
- 7) Install the packing gland, valve stem, and the stem bushing.
- 8) Tighten the stem bushing and install the locking screw.
- 9) Lubricate both sides of the spring washers (Item H) and the cap screws (Item C) with high temperature nickel-based lubricant.
- 10) Install the washers and the cap screws as shown in Fig. 1. Make sure the spring washers are oriented as shown in Fig. 1.
- 11) Tighten the cap screws evenly to guide the packing gland squarely into the stuffing box.
- 12) Cycle the valve several times to assure that the stem will operate smoothly.
- 13) Carefully recommission the valves. If a leak is seen, close the valves and tighten the cap screws. Open the valves and if no other leaks are seen, reassemble the operating chains. See IOM #R500.207A..
- 14) Note: Refer to IOM R500.541D1 for complete instructions for Clark-Reliance Steel Valves.

Consult the factory or your local Clark-Reliance Representative with any questions. Please have the model numbers and/or reference drawing numbers available when calling. You can also contact us at our website www.relianceboilertrim.com or RelianceAppEng@clark-reliance.com

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