



Riser Fill-Up Valve

Prepare for the unexpected, defend against riser collapse

Applications and Benefits

While varying the wall thicknesses of marine drilling risers will temper the collapse rating of the string, increasing wall thickness sufficiently in deepwater drilling is impractical. For unplanned events such as an emergency disconnect of the LMRP, a gas kick that evacuates the riser or a failure of the lower riser section, the Riser Fill-Up Valve is an absolute necessity.

GE's Riser Fill-Up Valve is designed to open automatically or to be operated manually in response to a sudden pressure differential between the inside and outside of the riser. When actuated, the Riser Fill-Up Valve opens, allowing the riser to fill with seawater, thus equalizing the pressure differential and preventing collapse of the riser. In addition, our Riser Fill-Up Valves offer:

- Fault-tolerant operation via four valve independent spools—even if one spool fails to operate, the valve will still perform
- Compatibility with any riser connection due to the in-line valve design

Key Features

Well-suited for the most demanding drilling riser applications, Riser Fill-Up Valves include the following features and benefits:

- All moving parts are encased within the unit—there are no external moving parts
- Valve will pass through a 49½" or larger rotary table
- Meet API 16F Specification for Marine Riser Equipment, 1st Edition, Aug. 1, 2004
- Meet internal component requirements of NACE MR0175, Sulfide Stress Cracking Resistant Metallic Materials for Oil Field Equipment
- Operating chambers are rated for 0-3,000 psi operating pressure with a 21" seal bore and available INCONEL®-lined seal areas



The GE Oil & Gas Riser Fill-Up Valve Advantage

GE's Riser Fill-Up Valve offers a fault-tolerant design to help you prepare for the unexpected. With all moving parts encapsulated in the valve body and manual or automatic pressure-balanced actuation, the Riser Fill-Up Valve quickly and effectively reduces the formation of pressure differentials inside the riser that can lead to collapse.

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GEA31268 (06/2014)