

## Hydril Pressure Control Riser Fill-up Valve

Prepare for the unexpected,  
defend against riser collapse

Pressure Control Equipment: Valves

### Applications & 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 Hydril Pressure Control riser fill-up valve is an absolute necessity.

The 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 Hydril Pressure Control 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, Hydril Pressure Control riser fill-up valves offer:

- Fault-tolerant operation via four 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

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Well-suited for the most demanding drilling riser applications, Hydril Pressure Control 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, 1<sup>st</sup> 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 Inconel®-lined seal areas

## The Hydril Pressure Control Riser Fill-up Valve Advantage

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The Hydril Pressure Control 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 Hydril Pressure Control riser fill-up valve quickly and effectively reduces the formation of pressure differentials inside the riser that can lead to collapse.

3300 North Sam Houston Parkway East, Houston, TX 77032

24/7 customer support: +1 281 449 2000

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GE imagination at work