OVERVIEW

The Super Safety™ valve is installed in the test string so that a blowout preventer ram can be closed on the ramlock sub located in the upper section of the valve. The annulus is then protected by the BOP rams, and the test string is protected by the Super Safety Valve.

The Super Safety valve is capable of cutting wireline and 1.5-inch coiled tubing. If equipped with a cutter ball, it is capable of cutting coiled tubing with a 2-inch outside diameter (OD) and 0.125-inch wall thickness, using a nitrogen dome charge or by applying balance line pressure.

FEATURES AND BENEFITS

The Super Safety valve is controlled by two hydraulic lines: a control line (open) and a balance line (close). It also contains a third line for chemical injection. The port for injecting chemicals is at the ball valve body or can be used to pump chemicals farther downhole to a separate injection sub or to actuate a subsurface safety valve. The valve is held open by maintaining hydraulic pressure on the control line.

The valve is designed to close by spring force but incorporates a nitrogen dome charge chamber to provide increased closing force and to lessen the time required for closing. This feature gives the valve the ability to cut wireline and coiled tubing without adding balance line pressure.

» Normally closed/fail-safe
» Maintains pump-through capabilities at all times
» Nitrogen dome charge for fast response
» Capable of cutting 1.5-inch coiled tubing, or, if equipped with a cutter ball, coiled tubing with 2-inch OD and 0.125-inch wall thickness
» Small 8-inch OD fits inside 9-5/8-inch casing

<table>
<thead>
<tr>
<th>Outer Diameter in. (cm)</th>
<th>Inner Diameter in. (cm)</th>
<th>Valve Length in. (cm)</th>
<th>Total Length in. (cm)</th>
<th>End Connections</th>
<th>Differential Pressure 1 psi (bar)</th>
<th>Tensile Load 2 lb (kg)</th>
<th>Service Temperature °F (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.0 (20.32)</td>
<td>3.0 (76.2)</td>
<td>50.00 (1270)</td>
<td>79.6 (202.2)</td>
<td>Top Connection: 5 3/4-4-Stub Acme Box Bottom Connection: 5 4-Acme Box</td>
<td>15,000 (1034)</td>
<td>400,000 (181,440)</td>
<td>32 to 325 (0 to 163)</td>
</tr>
</tbody>
</table>

Notes:
1 Differential pressure is the difference in pressure between the casing annulus and the tool ID.
2 The values of tensile, burst, and collapse strength are calculated with new tool conditions: Lamé formulas with von Mises’ Distortion Energy Theory for burst and collapse strength, as well as stress, are calculations for tensile strength

» Meets requirements of NACE MR0175 (> 175°F/79°C)
» These ratings are guidelines only. Refer to the equipment data book for individual specifications.

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