Storm Choke™ H Safety Valve

TUBING-PRESSURE (AMBIENT) SUBSURFACE-CONTROLLED WIRELINE-RETRIEVABLE SAFETY VALVES

OVERVIEW
Storm Choke™ H safety valves are ambient-type, wireline-retrievable valves that are normally closed and pre-charged with a set dome pressure. When the well flowing pressure drops below the predetermined dome-pressure charge, as a result of a rupture in the flowline or surface equipment, the dome pressure and valve spring are designed to close the valve, shutting in the well.

The H valve is used in wells producing large volumes of abrasive fluids. Its large bore is not restricted by a flow bean. The valve is designed to resist pressure surges. A metal-to-metal ball and seat is used as the primary closure mechanism.

The H valve is ideal for protecting wells with declining bottomhole pressure because this valve is tubing-pressure sensitive instead of velocity sensitive. To reopen, the valve pressure must be fully equalized either by applying pressure in the tubing from the surface or by running a prong to allow equalization from below. The valve will reopen when the tubing pressure acting on the internal piston area overcomes the dome charge.

APPLICATIONS
» Wells producing large volumes of abrasive fluids
» Wells with declining bottomhole pressure
» Wells with no provisions for surface-controlled valves

FEATURES
» Large bore not restricted by a flow bean
» Metal-to-metal ball and seat
» Designed to resist pressure surges

BENEFITS
» Closes as flowing conditions change
» Ball closure cleans itself of debris
» Can be used in severe environment wells
» Installed and retrieved under pressure using wireline methods
» Adaptable to any Halliburton lock mandrel
» Designed to locate in any Halliburton landing nipple
» Straight-through flow path
» Can be located on large bore intervention packers
## Ambient Safety Valves (Ball-Type Closure)

<table>
<thead>
<tr>
<th>Nominal Size in. (mm)</th>
<th>Compatible Lock Mandrel</th>
<th>OD in. (mm)</th>
<th>ID in. (mm)</th>
<th>Top Thread (Box)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 (50.80)</td>
<td>1.875</td>
<td>1.750 (44.45)</td>
<td>0.750 (19.05)</td>
<td>1 3/16-14 UNS</td>
</tr>
<tr>
<td></td>
<td>1.875 X°</td>
<td>1.750 (44.45)</td>
<td>0.750 (19.05)</td>
<td>1 3/8-14 UNS</td>
</tr>
<tr>
<td>2 1/2 (63.50)</td>
<td>2.313</td>
<td>2.120 (53.85)</td>
<td>1.000 (25.40)</td>
<td>1 3/16-12 UN</td>
</tr>
<tr>
<td></td>
<td>2.313 X°</td>
<td>2.140 (54.36)</td>
<td>1.000 (25.40)</td>
<td>1 3/4-12 UN</td>
</tr>
<tr>
<td>3 1/2 (88.90)</td>
<td>2.750</td>
<td>2.730 (69.34)</td>
<td>1.500 (38.10)</td>
<td>2-12 UN</td>
</tr>
<tr>
<td>4 1/2 (114.30)</td>
<td>3.813</td>
<td>3.720 (94.49)</td>
<td>2.000 (50.80)</td>
<td>2 7/8-12 UN</td>
</tr>
<tr>
<td></td>
<td>3.813 X°</td>
<td>3.720 (94.49)</td>
<td>2.000 (50.80)</td>
<td>3 1/16-12 SLB</td>
</tr>
</tbody>
</table>

### Ordering Information

**Specify:** nipple bore and lock profile, service (standard, %H₂S, %CO₂, amines), pressure and temperature requirements, flowing pressure at closing rate, necessity of API monogramming or other certification requirements.

**Part Number Prefixes:** 22HO, HOS, HOX: ball-closure

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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