Wedge Valve with Remote Air Actuation
Safe, efficient containment and diversion of drilling fluids in pressure-critical applications

Halliburton services’ Wedge Valve, designed for use with a rotating control device, helps reduce costs and environmental impact while improving overall wellsite safety in pressure-critical operations.

The Wedge Valve is equipped with a remote air actuator that enables safe and secure operation by the rig personnel.

Rated to 3,000 psi (20.7 MPa) static pressure and 2,250 psi (15.5 MPa) working pressure, the Wedge Valve is used to direct fluid returns from the rotating control head to either the shale shaker or separator. This enables continuous drilling while safely containing annular fluids under pressure while the drillpipe is rotating, and diverts fluids to the returns system without interrupting operations.

With a compact design, the Wedge Valve easily fits under most drilling rigs with standard flow line connections, providing better maneuverability and faster rig up.

Applications
The Wedge Valve helps enhance HSE controls through total control of surface pressure in a range of pressure-critical applications:

- Managed-pressure drilling (MPD), underbalanced drilling (UBD), and kick control in conventional drilling
- Shallow gas and abnormally pressured formations
- Casing while drilling
- Offshore fixed platform or jack-up rigs
- Extended-reach horizontal and ultradeep vertical wells

Features
- Rated to 3,000 psi (20.7 MPa) static pressure, 2,250 psi (15.5 MPa) working pressure
- Remote air actuation enables operator to safely operate without manual operation by personnel below rig floor
- Control Console is equipped with safety latch feature to prevent accidental activation of valve controls
- Rig floor Control Console and Wedge Valve are pneumatically powered, which creates an explosion-proof environment

Benefits
- Helps improve safety and efficiency in pressure-critical applications
- Maintains tight control of drilling fluid to enhance HSE
- Quarter-turn open / close enables quick and reliable operation to react to kick events
- Fits under most drilling rigs with standard flow line connections
## Wedge Valve Specifications

<table>
<thead>
<tr>
<th>Inlet/Outlet Flange in., psi (MPa)</th>
<th>A in. (mm)</th>
<th>B in. (mm)</th>
<th>C in. (mm)</th>
<th>D in. (mm)</th>
<th>E in. (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-1/16, 3,000 (20.7)</td>
<td>30.00 (76.2)</td>
<td>16.25 (41.3)</td>
<td>13.75 (34.9)</td>
<td>7.44 (18.9)</td>
<td>30.00 (76.2)</td>
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All dimensions are approximate.

**Typical installation of Wedge Valve on flow line from rotating control device**

For more information, contact your local Halliburton representative.