



Model A Wellhead Safety Valve

Weatherford's Model A wellhead safety valve is used during well testing and production operations conducted on platform, jackup, or land rigs. The nitrogen-precharged, fail-closed ball valve is installed in the blowout preventer (BOP) stack to immediately shut in the well should an uncontrolled escape of fluids occur at the surface between the BOP and the flowhead. This occurrence is possible in both flowing and stimulation modes.

The pipe rams are closed around a ported slick joint above the valve. The valve is operated from surface by hydraulic control lines and opened and closed by the application and bleed off of control-line pressure. In case of emergency, the shear rams can be closed above the valve. In the event that the valve cannot be re-opened, or emergency shearing has taken place, the valve has pump-through capability that allows kill-weight fluids to be bullheaded into the formation.

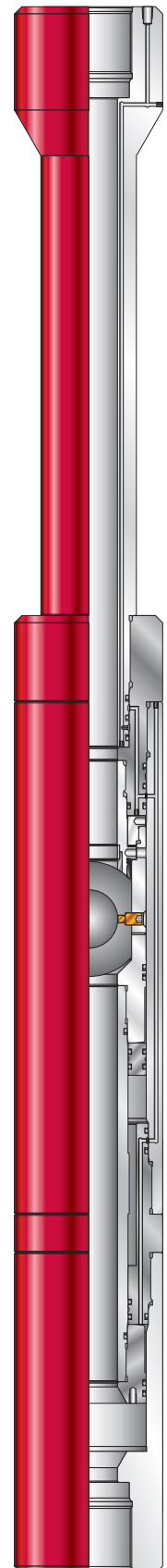
The amount of nitrogen precharge in the tool can be set to enable the valve to cut through 5/16-in. wireline and 1 1/2-in. coiled tubing with the assistance of hydraulic control-line pressure.

Applications

- Drillstem testing
- Production testing
- Perforating operations
- Stimulation

Features, Advantages and Benefits

- Compact design is compatible with all BOP stacks for added operational flexibility.
- Dual-function ported slick joint/handling sub enhances operational efficiency.
- Pump-through capability promotes more effective well-kill operations and enhances safety and efficiency.
- The full-bore ID of the valve facilitates unrestricted flow and access for well interventions.





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Specifications

JDE part number	1275032
Working pressure rating (psi/MPa)	10,000 68.95
Temperature (°F/°C)	-22° to 350° -30° to 177°
Maximum OD (in./mm)	7.75 196.85
Minimum ID (in./mm)	3.00 76.20
Ported slick joint OD (in./mm)	5.00 127.00
Upper thread connection	4.500-in. Stub Acme box
Lower thread connection	
Tensile rating (lbf/daN)	450,000 200,160
Tool-valve body length (ft/m)	4.17 1.27
Tool assembly overall length (ft/m)	6.86 2.09
Approximate assembly weight (lb/kg)	680 308
Maximum control line pressure (psi/MPa)	5,000 35.47
Nitrogen pre-charge for 5/16 in. wireline cutting (psi/MPa)	1,500 10.34
Nitrogen pre-charge for 1-1/2 in. coiled tubing cutting (psi/MPa)	2,500 17.24
Service conditions	CO ₂ / H ₂ S per NACE MR-01-75