



OPTIMAX™ ULTRA DEEP-SET SAFETY VALVES

THE HIGHEST RELIABILITY IN DEEP WATER



The safety of your operation can come down to one piece of equipment: safety valves.

Field-proven Weatherford safety valve technology guards against catastrophic loss of well control. The Optimax™ ultra deep-set safety valve delivers V1-rated reliability to your operation. This valve can be set as deep as 12,000 ft (3,658 m) to provide fail-safe closure at pressures up to 10,000 psi (68 MPa).

This rod-piston, flapper-type safety valve shuts in your well in the event of uncontrolled flow. With two rod pistons acting in opposite directions, the Optimax valve is tubing-pressure insensitive and does not rely on nitrogen-charged chambers, which can bleed off over time.

Optimax valves require only low operating pressures that reduce costs on subsea trees and umbilicals. Each nonelastomeric valve is validated through a rigorous testing program that exceeds API 14A requirements. The result is high performance and reliability in deepwater applications in temperatures between 35°F and 350°F (2°C and 177°C).

Validation grade:

V1

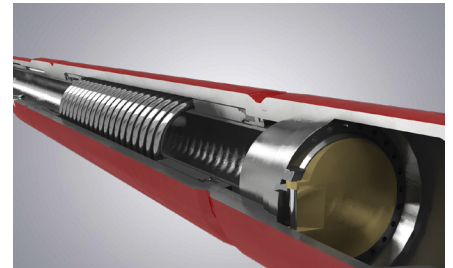
Fail-safe setting depth:

≤12,000 ft
(3,658 m)

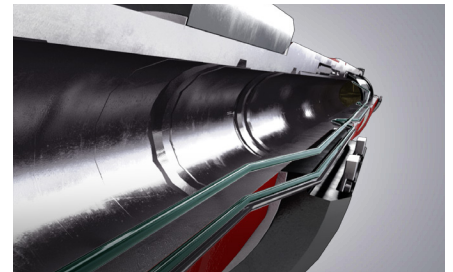
Design and manufacturing
compliance:
API Q1 and API-14A

Rated working pressure:

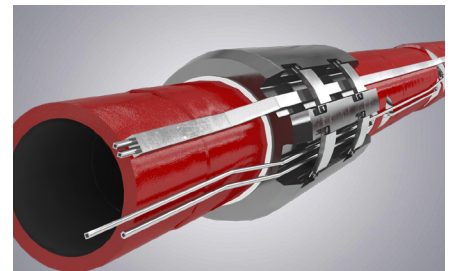
10,000 psi
(68.9 MPa)



Heavy-duty springs enable fail-safe closure.



Tubing-pressure insensitive activation reduces requirements on surface control systems.



A second control line, when run to surface creates a balanced line.

THE WEATHERFORD SAFETY VALVE ADVANTAGE



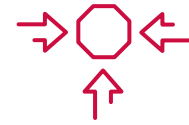
METAL-TO-METAL (MTM) SEALS
safeguard against leaks at high pressures and temperatures

- State-of-the-art seal technology
- MTM piston stop seals
- MTM premium threads
- MTM flapper/hard-seat seal
- Nonelastomeric soft seal



ENHANCED SAFETY FEATURES
deliver unbeatable reliability and safety

- Flapper closes upon loss of pressure from the surface
- Zero nitrogen-charged chambers
- Heavy-duty springs enable fail-safe closure
- Simple design eliminates sleeves or plugs that can be inadvertently actuated

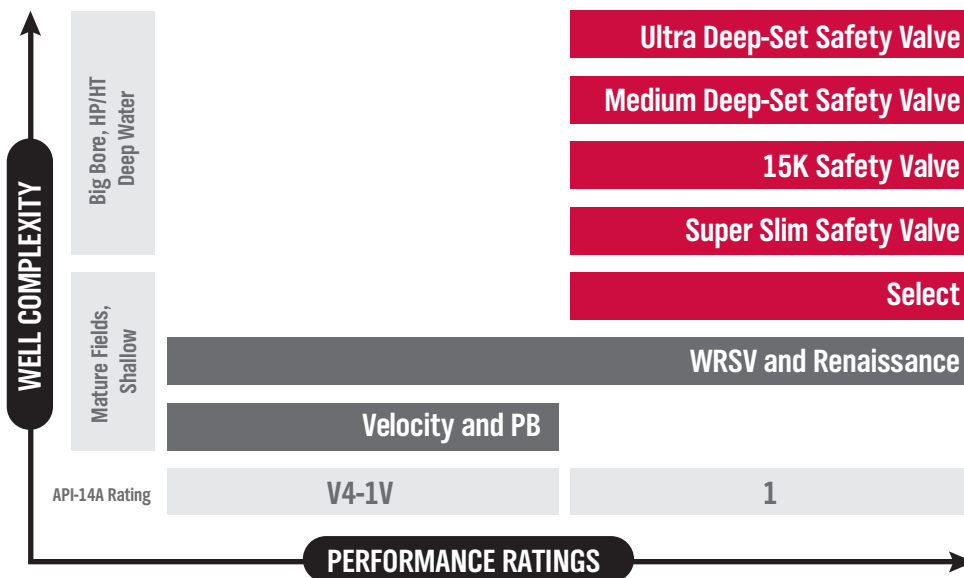


OPTIONAL FEATURES
provide additional operational control

- Second control line enables remote flow-tube exercising from surface
- Use of a wireline-retrievable insert safety valve
- Customize to diverse applications

No matter where you operate, we have a full line of modern, reliable tubing-retrievable safety valves to suit most applications.

Optimax portfolio



Protect your assets with the most reliable safety valves in the industry

Our Optimax safety valves deliver the highest possible standards to maximize health, safety, and environmental performance for the life of your wells. With more than 20,000 cumulative years of service, these valves have had zero failures attributed to the valve design.

weatherford.com/Ultra



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