




## uHPHT single-shot reservoir testing systems

Testing in the most extreme environments

-  **Temperature:**  
500 degF [260 degC]
-  **Pressure:**  
J-string: 25,000 psi [172 MPa]  
K-string: 30,000 psi [207 MPa]
-  **Certification:**  
NACE MR0175 compliant

### Applications

- HPHT reservoir conditions
- Downhole reservoir testing
- Deviated and deepwater wells
- Exploration and appraisal testing
- Completion operations

### How it improves wells

The uHPHT single-shot drillstem testing (DST) strings are fully customizable to achieve your well test objectives in hostile downhole conditions. Available in two customizable configurations, these strings perform reliably with a simple, rugged design that can handle testing in the most extreme environments.

### How it works

The J-string was developed for use in ultraHPHT wells with bottomhole temperatures of more than 425 degF [218 degC]. New seal technology has enabled successful qualification testing to 500 degF [260 degC] at the maximum pressure rating of 25,000 psi [172 MPa].

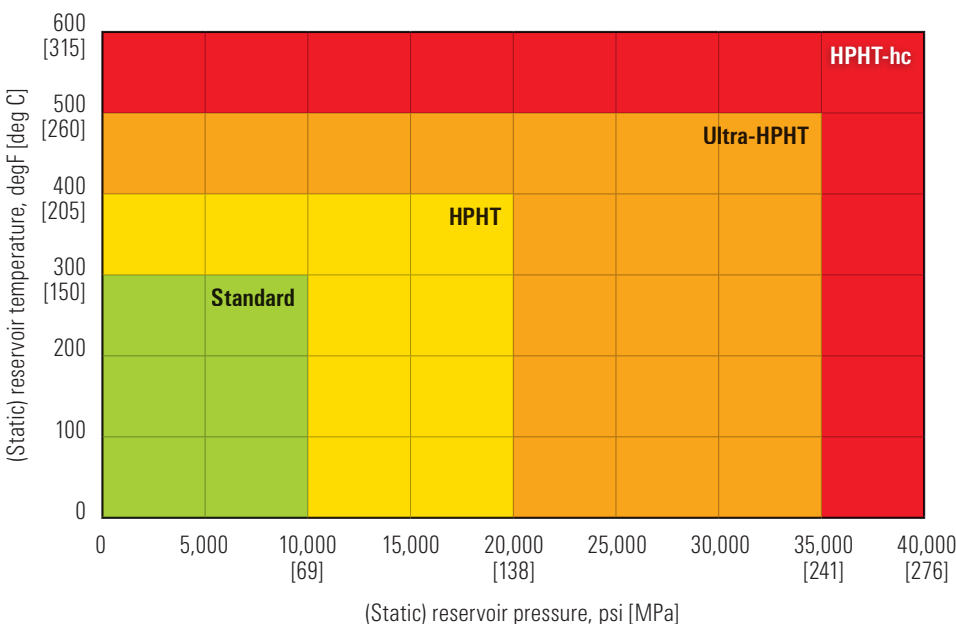
The K-string is used in hostile ultrahigh-pressure wells with bottomhole pressures up to 30,000 psi [207 MPa]. The seal options make it suitable for both standard and ultrahigh-temperature environments and the presence of hostile drilling and completion fluids.

### What it replaces

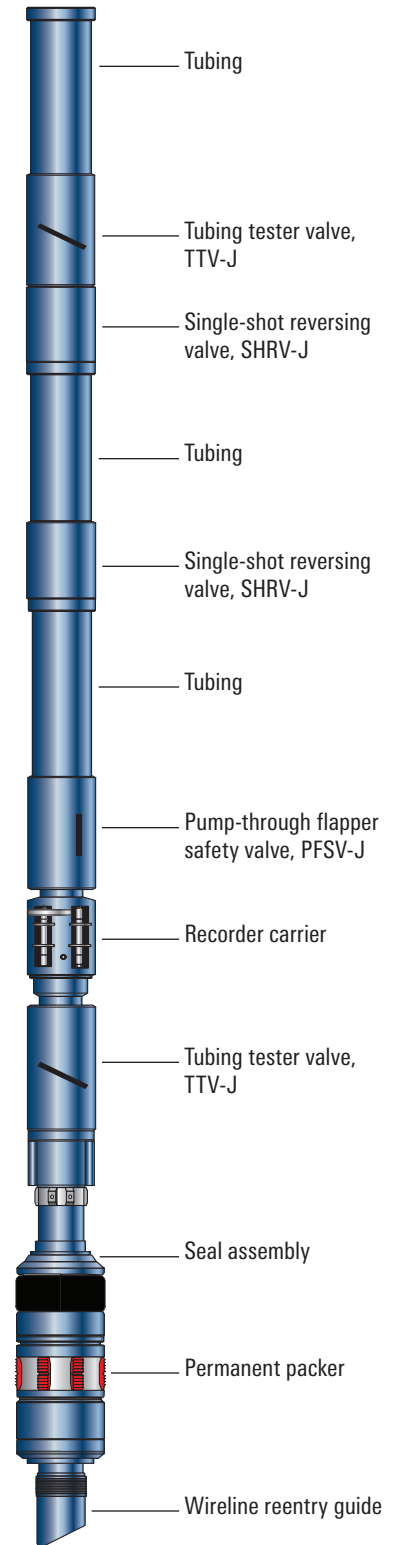
uHPHT strings enable you to conduct well testing and gather data in the harshest reservoir testing environments. These new reservoir frontiers were previously untestable.

### What else I should know

Schlumberger engineers customize the string designs for optimal deployment—for example, employing the Signature Xtreme\* high-temperature quartz gauge—to ensure that the necessary data is collected and risks are mitigated to be certain\*.



HPHT classification system with boundaries representing stability limits for elastomeric seals and electronic devices in oilfield service tools.



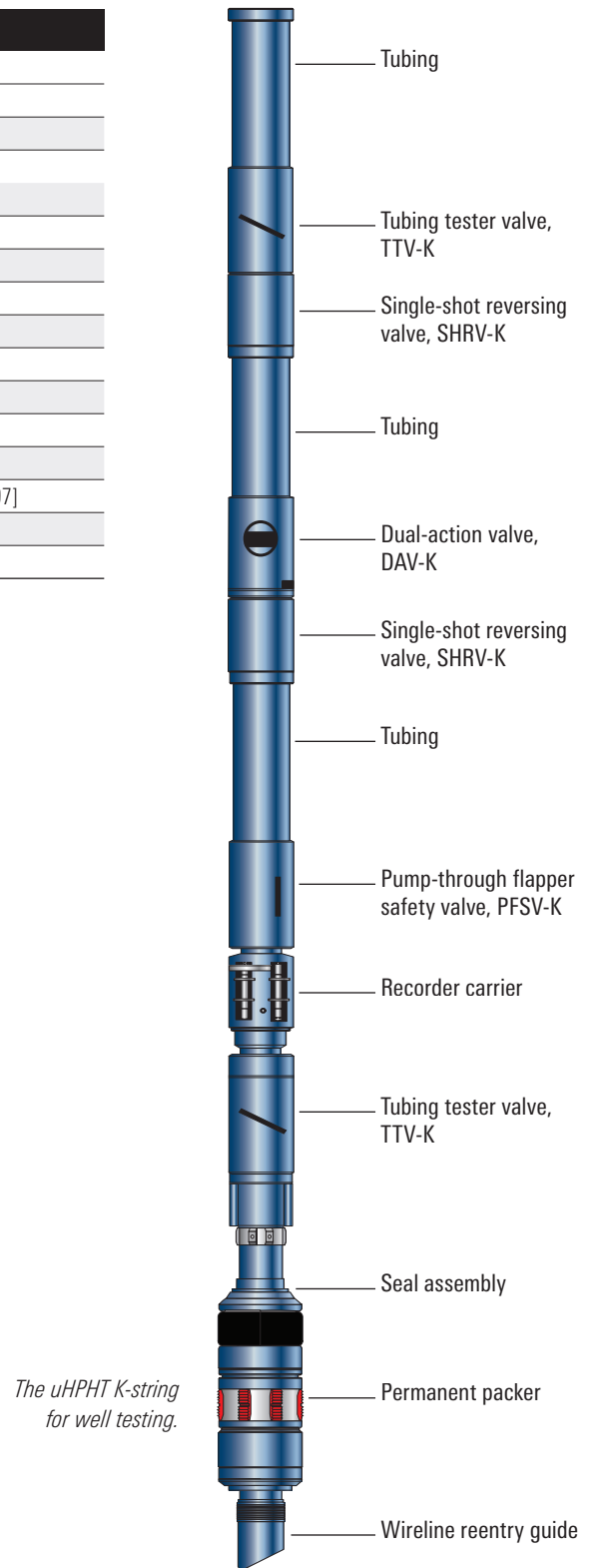
The uHPHT J-string for well testing.

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## Specifications

	uHPHT DST System	
	J-String	K-String
Temperature rating, degF [degC]	500 [260]	450 [232]
Pressure ratings		
Max. differential across wall, psi [MPa]	17,500 [121]	15,000 [103]
Max. differential across flapper, psi [MPa]	17,500 [121]	15,000 [103]
Max. annular, psi [MPa]	25,000 [172]	30,000 [207]
Max. tubing, psi [MPa]	29,000 [200]	30,000 [207]
Max. across ball from above, psi [MPa]	na	15,000 [103]
Max. across ball from below, psi [MPa]	na	15,000 [103]
Max. OD, in [mm]	5 [127]	5 [127]
Tool ID., in [mm]	2.25 [57]	2.25 [57]
NACE MRO175 compliance	H <sub>2</sub> S, acid	H <sub>2</sub> S, acid
Tensile strength at min. yield, lbf [kN]	400,000 [1,779]	404,000 [1,797]
Makeup torque, lbf.ft [N.m]	4,000 [5,423]	4,000 [5,423]
Connection	3½ PH6	3½ PH6

na = not applicable



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**Schlumberger**