

## Wireless Information Technology System™

The Wireless Information Technology System (WITS)™ combines proven top drive safety valve design with casing running tool torque sub technology, providing operators with integrated, field-proven safety valve operation, data recording and wireless communication.

### ECONOMICS

WITS™ is a very compact system that can be installed on most top drives between the main shaft and the pipe handler. Its patented and patents pending compact design provides multiple benefits for operators:

- Can be retrofitted into the space of existing top drive IBOPs, eliminating the need for a separate torque sub for casing running tool services.
- Allows standard saver sub usage during drilling and tripping operations.

### VERSATILITY

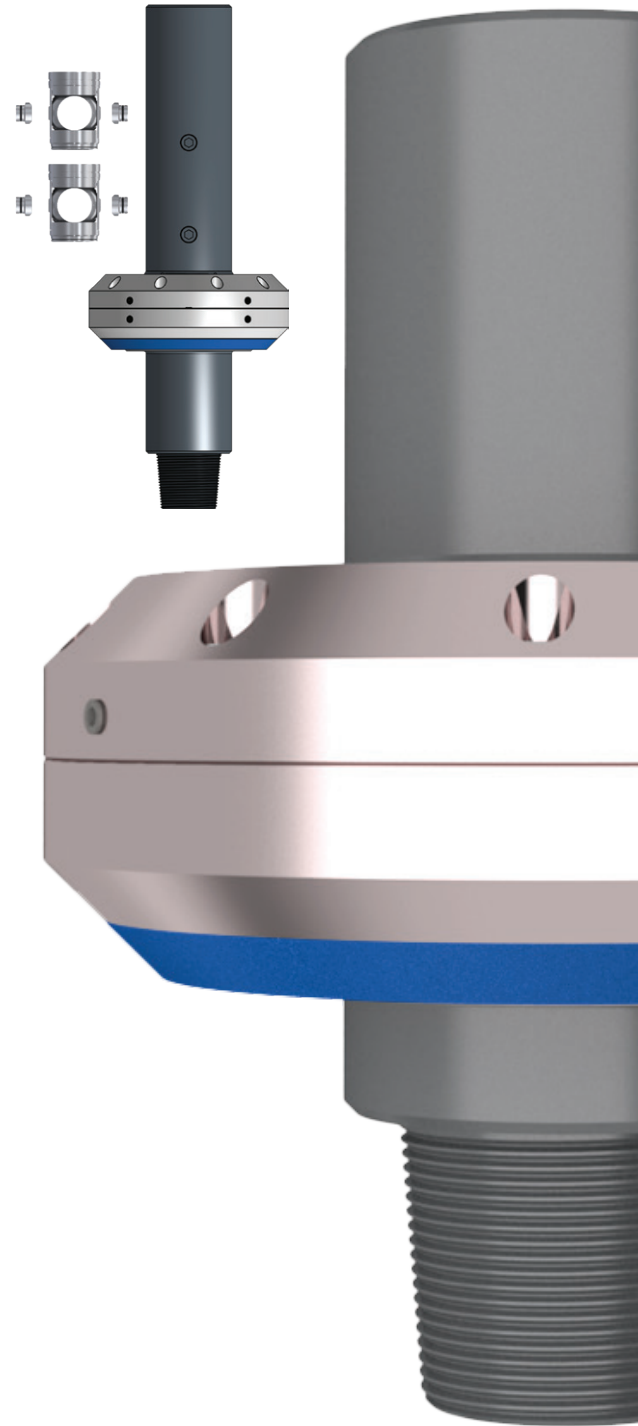
The WITS™ C-models can be used in combination with traditional casing running tools, making them versatile wireless information technology systems that can be used in multiple applications.

### PERFORMANCE

WITS™ design incorporates two patented EZ-FIT CARTRIDGE™<sup>1</sup> ball valves that are stacked within its body, giving it distinct advantages over competitive units:

- Extended top drive safety valve life through optimum stem design.
- Precise positive quarter-turn rotational stops for the fully open and closed positions, preventing interference with tool passage or fluid erosion.
- Pressure held from above or below the valve.
- Enhanced sealing under low- and high-pressure conditions.
- Equalizes pressure across the upper seal and ball to load it against the downstream seal, preventing trapped pressure and reducing torque required to open the valve.

<sup>1</sup> Trademark of  a  company.



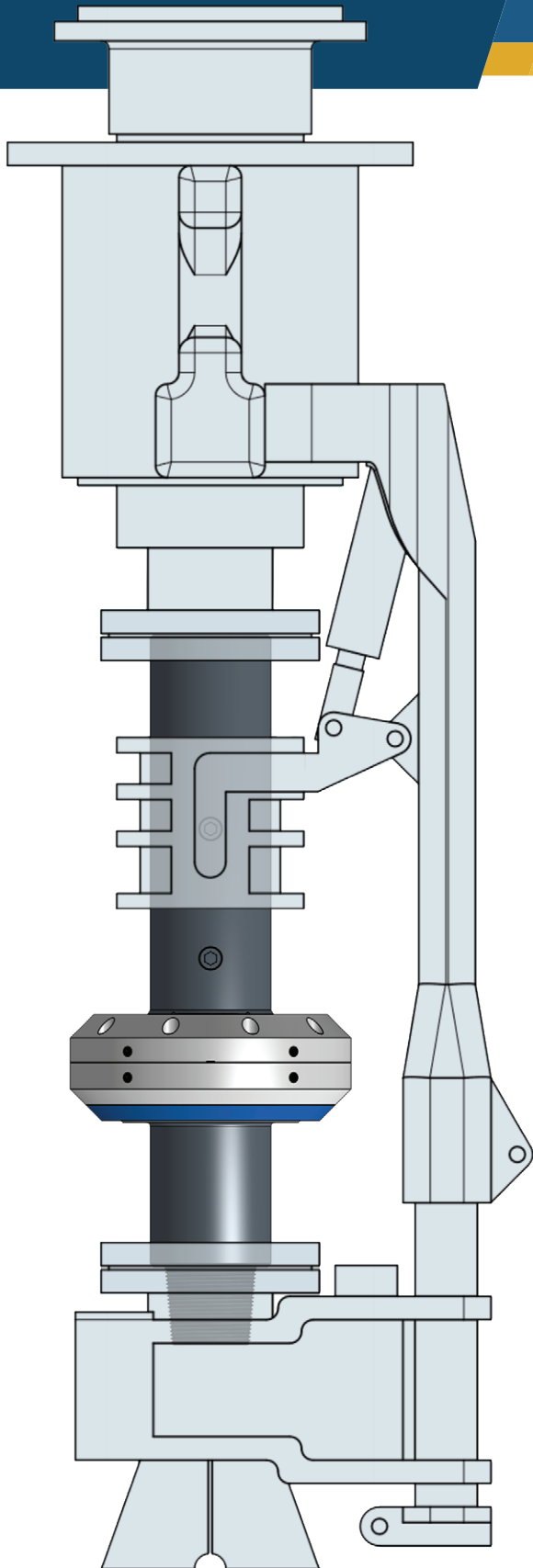
PATENTS PENDING

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# WITS™

A **SMART** SOLUTION



## ACCESSIBILITY OF DATA

The WITS™ is built with integrity and precision, making it reliable, accurate and easy to use. The system records torque, tension, compression, turns, pressure and temperature. Every value is recorded, and every action is tracked continuously without interruption.

All data is encrypted to ensure its safety and integrity. Data is stored through cloud technology on AllTorque Cloud™<sup>2</sup> and is available for analytics through service plans. At the cost of cents per connection, the tool will provide customers re-calibration, perpetual software updates, online support and access to cloud data.

<sup>2</sup> Trademark of  AllTorque

## SAFETY

WITS™ is one of the safest tools on the market:

- Class 1, Division 1, Group C and D, T4
- Class 1, Zone 1, AEx, IIB, T4
- Enclosure rating IP 66, NEMA TYPE 4/4X
- Secondary retention
- Drill pipe threads conform to API 7-1

	WITS 658 T	WITS 658 C	WITS 412 T	WITS 412 C
Connection	6 5/8" API REG		NC50	
Load rating	500 ton		350 ton	
Torque capacity	75,000 ft-lbs			
Sample rate	Configurable, dynamic, up to 1,000 Hz			
Accuracy	≤ 1% of full scale			
Turns resolution	≤ 0.001 turns			
Battery life	> 6 months continuous			
Operating temperature	-40°F to +158°F			
Safety valve pressure rating	15,000 psi		15,000 psi	
Safety valve trim	H <sub>2</sub> S		H <sub>2</sub> S	
SH/SH Length	40.5"	18.4"	40.5"	18.4"
Weight approx.	650 lbs	365 lbs	625 lbs	340 lbs

ASSLS-001-RO

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