

WELLBORE SERVICE TOOLS | WELLBORE CLEANING TECHNOLOGY

Turbo Tech® II multi-activation bypass valve

Next generation, compression activated tool for increasing flow rates and hydraulic debris removal

FEATURES

- Robust
- Compression activated
- Unlimited cycles
- Locks open allowing the string to be rotated and reciprocated
- Repeatable and resettable shear mechanism eliminates valve cycling on short trips, as a result of friction when tripping or due to reciprocating drill pipe
- Cycled under pressure - not required to shut pumps down to activate
- Abundant bypass flow area
- Rated to 8,000 PSI differential pressure prior to shifting, 5,000 PSI differential pressure after shifting
- High flow rate capability when open in all fluid types
- Designed with stress relief features reducing stress concentrations and fatigue

Overview

The CleanWell® Turbo Tech® II compression-activated bypass valve is designed to allow up-hole boosting above liner tops during displacement or cleanout interventions. The Turbo Tech II valve promotes best practices for displacement allowing optimal circulating rates, pipe rotation and pipe reciprocation while circulating and boosting. It is not required to shut down circulation when activating the tool, which is critical during a displacement.

The Turbo Tech II valve can be activated as often as required and remains in the locked position until cycled again. The valve is typically used when long liners (significant friction loss) or smaller drill pipe restrictions exist down hole, thus preventing turbulent flow in larger casing(s) up hole.

The Turbo Tech II valve is typically integrated with other mechanical wellbore cleanout tools and can help manage non-productive time associated with poor hydraulics to help improve circulating and overall displacement timelines.



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