

TAQA's Threlix is designed to assist operators in mitigating drilling dysfunctions while drilling with rotary steerable systems (RSS). Threlix balances torque and WOB while drilling to ensure smooth energy transfer to the bit and drilling dysfunctions mitigation - including torsional, axial, and lateral vibrations. When excess torque is seeing while drilling, Threlix contracts/shortens instantaneously to prevent sticking, reduce depth of cut, and damages to the PDC cutters, RSS and M/LWD components. Then, Threlix will slowly extend as the torque is slowly reduced to continue drilling with a constant depth of cut.

SPECIFICATIONS

OD	5.25 in	133 mm
ID	1.38 in	35 mm
Length	26.41 ft	8.04 m
Stroke Up	1.00 in	2.54 cm
Stroke Down	7.00 in	17.78 cm
Weight	1,593 lbs	268 kgs
Max Tensile Load	450,000 lbs	200,169 daN
Max Torque	21,500 ft-lbs	16,947 N-m
Max DLS - Rotating	10°/100ft	10°/30m
Max DLS - Sliding	20°/100ft	20°/30m
Max Hydrostatic Pressure	30,000 psi	206,800 kPa
Max Temperature	390°F	198°C

BENEFITS

- Maximize effective weight transfer
- Consistent drilling parameters
- Reduce axial, lateral and torsional vibrations
- Increase RSS reliability
- Minimize damage to BHA components
- Reduce drilling time and costs

FEATURES

- Proprietary helical spring design
- Components are fully closed and oil sealed
- Compatible with any RSS
- Dual acting - extension and compression
- Applications engineering support