THRELIX®
TECH SPEC SHEET

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 seen, Threlix shortens instantaneously to prevent sticking, 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.

MAX TEMPERATURE
Regular Seals: 401°F / 205°C

IMPERIAL

OD (in)	ID (in)	Length (ft)	Weight (lbs)	Total Stroke (in)	Max Rotating DLS (°/100ft)	Max Sliding DLS (°/100ft)	Overpull to Yield (lbs)	Max Torque (lbf-ft)	Torsional Yield (lbf-ft)
5.25	1.38	26.41	1,593	8.0	12	20	450,000	21,500	35,800
6.75	2.25	25.79	2,547	8.0	10	20	600,000	34,800	58,000

METRIC

OD (mm)	ID (mm)	Length (m)	Weight (kgs)	Total Stroke (cm)	Max Rotating DLS (°/30m)	Max Sliding DLS (°/30m)	Overpull to Yield (daN)	Max Torque (N-m)	Torsional Yield (N-m)
133	35	8.0	724	20.3	12	20	200,170	29,150	48,538
171	57	7.9	1,158	20.3	10	20	266,893	47,182	78,637

BENEFITS

- Mitigate torsional vibrations - stick slip and HFTO
- Increase RSS reliability
- Minimize damages to PDC bits, MWD, and LWD tools
- Decrease axial and lateral vibrations
- Reduce R&M costs of downhole drilling tools
- Reduce drilling time and costs

FEATURES

- Proprietary helical spring design
- Internal components fully enclosed and oil sealed
- Compatible with any RSS
- Dual acting - extension and compression
- Applications engineering support