

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 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

MAX TEMPERATURE
 Standard Seals: 250°F/121°C
 High Temp Seals: 405°F /207°C
 Geo Seals: 405°F/207°C + Steam

IMPERIAL

OD (in)	ID (in)	Length (ft)	Weight (lbs)	Stroke Up (in)	Stroke Down (in)	Max Rotating DLS (°/100ft)	Max Sliding DLS (°/100ft)	Maximum Tensile Load (lbs)	Maximum Torque (lbf-ft)
5.25	1.38	26.41	1,593	1.0	7.0	10	20	450,000	21,500
6.75	1.75	25.8	2,547	1.0	7.0	8	20	600,000	55,000

METRIC

OD (mm)	ID (mm)	Length (m)	Weight (kgs)	Stroke Up (cm)	Stroke Down (cm)	Max Rotating DLS (°/30m)	Max Sliding DLS (°/30m)	Maximum Tensile Load (daN)	Maximum Torque (N-m)
133	35	8.0	724	2.5	17.8	10	20	200,170	29,150
171	44	7.9	1,158	2.5	17.8	8	20	266,893	74,570

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
- Components are fully enclosed and oil sealed
- Compatible with all RSS
- Dual acting - extension and compression
- Applications engineering support