THERMOTICS SHOCK TOOL

Shock tool is designed to reduce the impact of vibrations on the elements of the bottom of the drill string, and to absorb shocks and vibrations acting on the string in the process of drilling oil and gas wells.

By isolating vibration from the bottom hole assembly caused by the drilling operations, the shock tool reduces the probability of a drill string failure or and electronic components due to fatigue destruction.

Shock tool design ensures efficient operation under various combinations of axial loads on bit and reduces fluctuation/spikes in mud flow rates and pressures.

When drilling a well using a downhole drive shock tool installed in the BHA directly above the bottom hole drive, when drilling in a rotary mode – above the bit.

Features & Benefits

►Reduce the risks of accidents related to drill string partition.

►Increase the service life of the drill bit and BHA elements.

►Protects electronics used in BHA MWD/LWD tools.

►Provides for increase in ROP.

►Isolates bit/formation induced vibrations from the drill string.

►Fully oil sealed and lubricated for extended service life.

►Does not use temperature sensitive elastomers for shock absorption, therefore is suitable for use in temperatures up to 250 F 120 C), with optional seals available for temperatures up to 320 F 160 C).

►Reduces wear and tear on rig and equipment, and fatigue failures on drill collars and drill pipe.

►Automatically compensates for pump created forces.

Specifications (Imperial)			
	ST800	**ST950**	**ST1100**
Nominal OD (in)	8	9.5	11
Thru Bore (in)	2 3/4	3.0	3.0
Length (ft)	11.9	12.3	13
Torsional Limit (ft.lbs)	82,200	131,000	225,600
Tensile Yield (lbs)	1,378,800	1,209,000	1,628,300
Pump Open Area (in. sq)	30.6	41.3	63.6
Maximum Bottom hole temperature, (°F)	250 - 320	250 - 320	250 - 320
Weight (lbs)	1,690	2,500	3,240
Connection	6 5/8 REG	7 5/8 REG	7 5/8 REG

Specifications (Metric)			
	ST800	**ST950**	**ST1100**
Nominal OD (mm)	203	241	279
Thru Bore (mm)	70	76	76
Length (m)	3.62	3.74	3.96
Torsional Limit (N.m)	114,000	177,600	305,900
Tensile Yield (daN)	613,300	537,800	724,300
Pump Open Area (mm.sq.)	19,700	26,000	41,000
Maximum Bottom hole temperature, (°F)	250 - 320	250 - 320	250 - 320
Weight (kg)	770	1,140	1,470
Connection	6 5/8 REG	7 5/8 REG	7 5/8 REG