

The Thruster provides a consistent force to the bit by balancing hydraulic and mechanical forces (pump open force and WOB). This balance provides smooth energy transfer to the bit—even in erratic situations. Unplanned trips are expensive and burden your AFE. The Thruster is proven to reduce excess trips and associated costs. Designed to increase reliability in your BHA components, the Thruster provides consistent drilling parameters; from ROP to WOB and differential pressure.

## SPECIFICATIONS

### MAX TEMPERATURE

Standard Seals: 250°F  
 High Temp Seals: 405°F  
 Geo Seals: 405°F + Steam

### IMPERIAL

Series	OD (in)	ID (in)	Length (ft)	Weight (lb)	Pump Open Area (in <sup>2</sup> )	Stroke Up (in)	Stroke Down (in)	Max Rotating Dogleg (°/100ft)	Maximum Torque (ft-lb)
500	5.00	2.25	22.0	1,000	11.0	12.0	12.0	13.8	21,000
650	6.55	2.50	19.8	1,600	16.8	8.0	8.0	10.5	45,000
675	6.75	2.50	21.0	1,600	16.8	8.0	8.0	10.2	45,000
800	8.00	3.00	22.5	3,000	30.7	12.0	12.0	8.6	60,000



## FEATURES AND BENEFITS

- Decrease **SHOCK** and **VIBRATION**
- **CONSISTENT** bit engagement to prevent stick slip and lateral vibration
- **REDUCE** weight, torque, and differential swings while drilling
- **REDUCE** damages to bit and other BHA components

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## SPECIFICATIONS

**MAX TEMPERATURE**  
 Standard Seals: 121°C  
 High Temp Seals: 207°C  
 Geo Seals: 207°C + Steam

### METRIC

Series	OD (mm)	ID (mm)	Length (m)	Weight (kg)	Pump Open Area (cm <sup>2</sup> )	Stroke Up (cm)	Stroke Down (cm)	Max Rotating Dogleg (°/30m)	Maximum Torque (N-m)
500	127	57	6.9	544	71.0	30.5	30.5	13.8	28,400
650	166	64	6.0	726	108.4	8.0	20.3	10.5	61,000
675	171	64	6.4	726	108.4	20.3	20.3	10.2	61,000
800	203	76	6.9	1,361	198.1	30.5	30.5	8.6	81,300



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