



### ROTOR DIMENSIONAL DATA

Length	190.5 in (4,839 mm)	Eccentricity	0.234 in (5.94 mm)
Contour Length	183.4 in (4,658 mm)	Head Diameter	4.13 in (104.9 mm)
Major Diameter	4.466 in (113.44 mm)	Weight	635 lbs (288 kg)

### STATOR DIMENSIONAL DATA

Length	220.1 in (5,591 mm)	Rubber Cutback Top	8.0 in (203.2 mm)
Tube OD	6.89 in (175.0 mm)	Rubber Cutback Bottom	28.0 in (711.2 mm)
Tube ID	5.12 in (130.0 mm)	Weight	1,300 lbs (590 kg)

### FITS (IN)

(+ Compression / - Loose)

Size	Minor <sup>1</sup>	75° F	150° F	225° F	300° F	375° F
STD	3.999	0.000	0.007	0.015	0.022	0.029
OS	4.019	-0.020	-0.013	-0.005	0.002	0.009
2OS*	4.019	-0.030	-0.023	-0.016	-0.008	-0.001

### FITS (MM)

(+ Compression / - Loose)

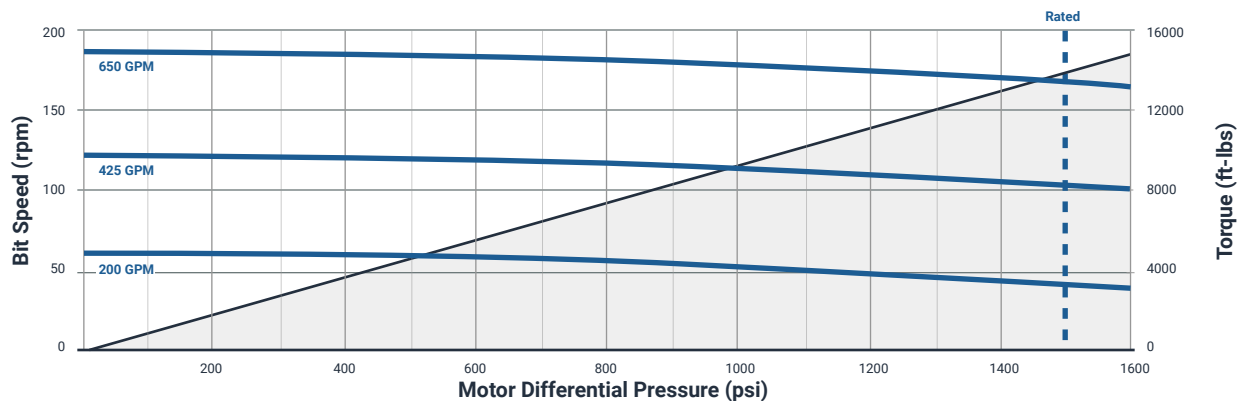
Size	Minor <sup>1</sup>	25° C	65° C	110° C	150° C	190° C
STD	101.575	0.000	0.153	0.356	0.534	0.712
OS	102.083	-0.508	-0.330	-0.127	0.051	0.229
2OS*	102.083	-0.762	-0.584	-0.381	-0.203	-0.025

### POWER SECTION SPECIFICATIONS

Lobes: 7/8 | Stages: 5.0

Flow Range	200 - 650 gpm (757 - 2,461 lpm)	Max Recommended Pressure	1,500 psi (103.4 bar)
Speed Ratio	0.29 rev/gal (0.077 rev/l)	Torque Slope	9.20 ft-lbs/psi (180.9 Nm/bar)
No Load Bit Speed	58-188 rpm	Torque @ Max Recommended Pressure	13,800 ft-lbs (18,710 Nm)
No Load Pressure Drop	500 psi (34.5 bar)	Power @ Max Recommended Pressure	444 hp (331 kW)
		Stall Torque <sup>2</sup>	46,120 ft-lbs (62,529 Nm)

### PERFORMANCE CURVE



**Disclaimer:** The Performance Curve and Performance Data published by BICO Drilling Tools are based on recorded dynamometer data at surface temperature (72 degF) on a standard fit configuration between rotor and stator, with clean water, and are presented as a reference to the potential power of the power section and or motor. Downhole conditions such as highly elevated bottom hole temperatures and different drilling/intervention fluids shall require adjusted loose fits that may produce reduced power during surface (dynamometer) testing and will achieve the expected torque and speed values when reaching planned conditions. Contact BICO for the adjusted performance curves.

**Minor<sup>1</sup>** Nominal Vector Gauge reading of stator elastomer minor diameter at 72° F (22° C). **Stall Torque<sup>2</sup>** Based upon extrapolation of the max flow rate curve until zero RPM with linear torque. **2OS\*** 0.5 US Rotor with OS Stator.

