



### ROTOR DIMENSIONAL DATA

Length	223.0 in (5,664 mm)	Eccentricity	0.256 in (6.50 mm)
Contour Length	215.5 in (5,474mm)	Head Diameter	4.50 in (114.3 mm)
Major Diameter	4.520 in (114.81 mm)	Weight	765 lbs (348 kg)

### STATOR DIMENSIONAL DATA

Length	252.0 in (6,400 mm)	Rubber Cutback Top	8.00 in (203 mm)
Tube OD	7.09 in (180.0 mm)	Rubber Cutback Bottom	28.00 in (711.2 mm)
Tube ID	5.50 in (139.7 mm)	Weight	1,346 lbs (612 kg)

### FITS (IN)

(+ Compression / - Loose)

Size	Minor <sup>1</sup>	75° F	150° F	225° F	300° F	375° F
STD	4.024	-0.016	-0.009	-0.001	0.006	0.013
OS	4.024	-0.001	0.006	0.014	0.021	0.028
20S	-	-	-	-	-	-

### FITS (MM)

(+ Compression / - Loose)

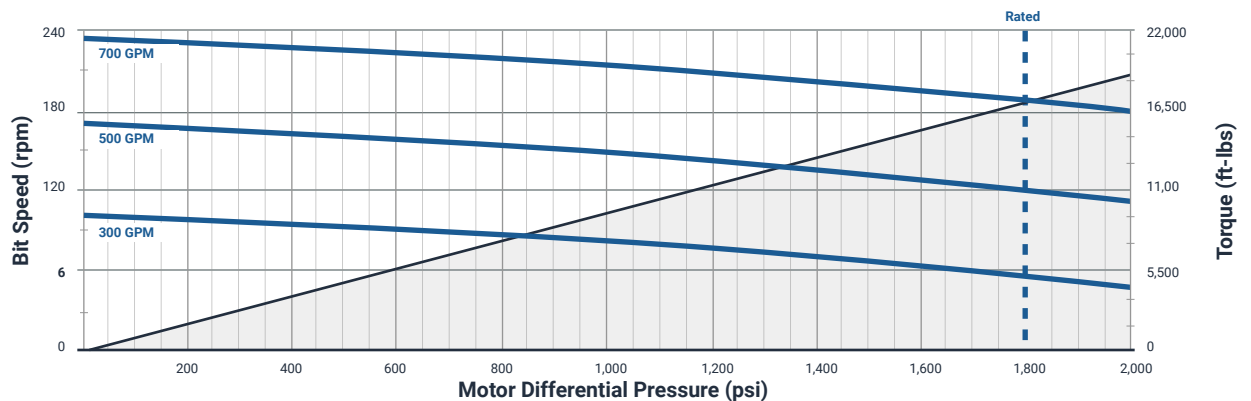
Size	Minor <sup>1</sup>	25° C	65° C	110° C	150° C	190° C
STD	102.210	-0.406	-0.228	-0.025	0.153	0.331
OS*	102.210	-0.025	0.153	0.356	0.534	0.712
20S	-	-	-	-	-	-

### POWER SECTION SPECIFICATIONS

Lobes: 7/8 | Stages: 6.1

Flow Range	300 - 700 gpm (1,135 - 2,650 lpm)	Max Recommended Pressure	1,800 psi (124.1 bar)
Speed Ratio	0.25 rev/gal (0.66 rev/l)	Torque Slope	9.50 ft-lbs/psi (186.8 Nm/bar)
No Load Bit Speed	75 - 175 rpm	Torque @ Max Recommended Pressure	17,100 ft-lbs (23,184 Nm)
No Load Pressure Drop	475 psi (32.8 bar)	Power @ Max Recommended Pressure	459 hp (342 kW)
		Stall Torque <sup>2</sup>	53,675 ft-lbs (72,774 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. **OS\*** rotor with STD stator.

