



ROTOR DIMENSIONAL DATA

Length	193.3 in (4,910 mm)	Eccentricity	0.226 in (5.74 mm)
Contour Length	188.3 in (4,783 mm)	Head Diameter	4.09 in (104.0 mm)
Major Diameter	3.980 in (101.09 mm)	Weight	635 lbs (288 kg)

STATOR DIMENSIONAL DATA

Length	217.8 in (5,532 mm)	Rubber Cutback Top	15.3 in (387.4 mm)
Tube OD	6.25 in (158.8 mm)	Rubber Cutback Bottom	15.3 in (387.4 mm)
Tube ID	5.00 in (127.0 mm)	Weight	805 lbs (365 kg)

FITS (IN)

(+ Compression / - Loose)

Size	Minor ¹	75° F	150° F	225° F	300° F	375° F
STD	3.513	0.005	0.013	0.020	0.027	0.035
OS	-	-	-	-	-	-
2OS	-	-	-	-	-	-

FITS (MM)

(+ Compression / - Loose)

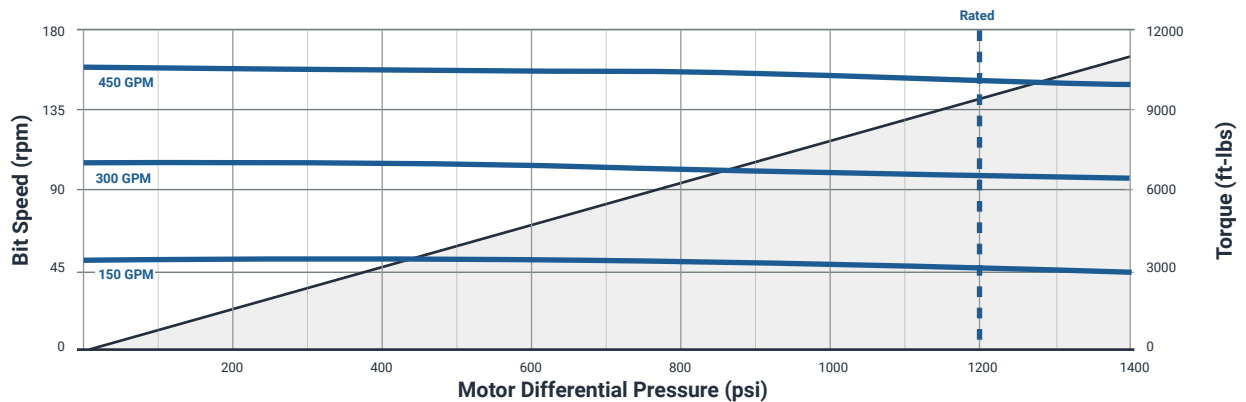
Size	Minor ¹	25° C	65° C	110° C	150° C	190° C
STD	89.230	0.127	0.330	0.508	0.685	0.889
OS	-	-	-	-	-	-
2OS	-	-	-	-	-	-

POWER SECTION SPECIFICATIONS

Lobes: 7/8 | Stages: 4.8

Flow Range	150 - 450 gpm (568 - 1,703 lpm)	Max Recommended Pressure	1,200 psi (82.7 bar)
Speed Ratio	.35 rev/gal (0.092 rev/l)	Torque Slope	8.20 ft-lbs/psi (161.0 Nm/bar)
No Load Bit Speed	53 - 140 rpm	Torque @ Max Recommended Pressure	9,828 ft-lbs (13,325 Nm)
No Load Pressure Drop	500 psi (34.5 bar)	Power @ Max Recommended Pressure	284 hp (212 kW)
		Stall Torque ²	29,689 ft-lbs (40,252 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.

Minor¹ Nominal Vector Gauge reading of stator elastomer minor diameter at 72° F (22° C). Stall Torque² Based upon extrapolation of the max flow rate curve until zero RPM with linear torque.

