7.00” SSS35
POWER SECTION

ROTOR DIMENSIONAL DATA

Length	**186.5 in (4,737 mm)**	Eccentricity	**0.231 in (5.87 mm)**
Contour Length	**179.1 in (4,549 mm)**	Head Diameter	**4.50 in (114.3 mm)**
Major Diameter	**4.645 in (117.98 mm)**	Weight	**597 lbs (271 kg)**

STATOR DIMENSIONAL DATA

Length	**215.5 in (5,473 mm)**	Rubber Cutback Top	**8.0 in (203.2 mm)**
Tube OD	**7.09 in (180.0 mm)**	Rubber Cutback Bottom	**28.0 in (711.2 mm)**
Tube ID	**5.50 in (139.7 mm)**	Weight	**1,351 lbs (613 kg)**

FITS (IN)
(+ Compression / - Loose)

Size	Minor¹	75° F	150° F	225° F	300° F	375° F
STD	4.177	0.007	0.014	0.022	0.029	0.036
OS	-	-	-	-	-	-
2OS	-	-	-	-	-	-

FITS (MM)
(+ Compression / - Loose)

Size	Minor¹	25° C	65° C	110° C	150° C	190° C
STD	106.096	0.178	0.356	0.559	0.738	0.915
OS	-	-	-	-	-	-
2OS	-	-	-	-	-	-

POWER SECTION SPECIFICATIONS
Lobes: 7/8 | **Stages:** 3.2

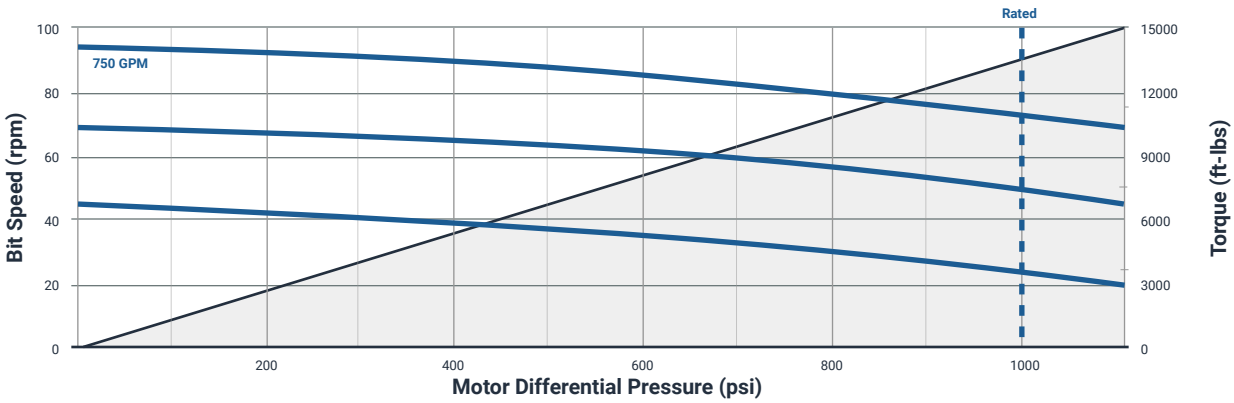
Flow Range	**350 - 750 gpm (1,325 - 2,839 lpm)**	Max Recommended Pressure	**1,000 psi (68.9 bar)**
Speed Ratio	**0.13 rev/gal (0.034 rev/l)**	Torque Slope	**13.50 ft-lbs/psi (265.5 Nm/bar)**
No Load Bit Speed	**44 - 95 rpm**	Torque @ Max Recommended Pressure	**13,500 ft-lbs (18,303 Nm)**
No Load Pressure Drop	**500 psi (34.5 bar)**	Power @ Max Recommended Pressure	**190 hp (142 kW)**
		Stall Torque²	**30,375 ft-lbs (41,182 Nm)**


SpiroStar Supreme®


SpiroStar®


FlexStar®

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.*