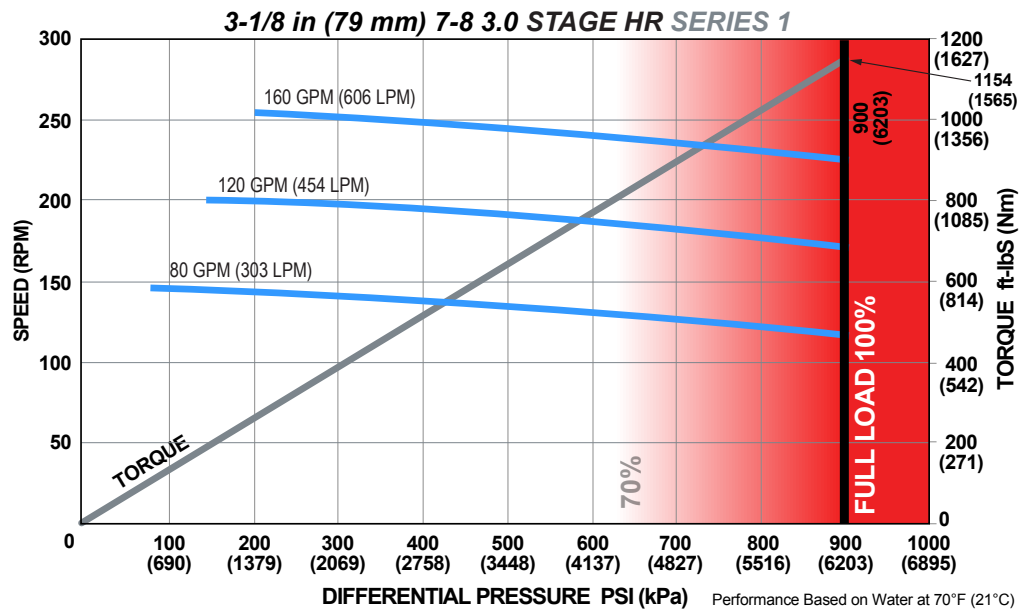




Bit Size Range		3-7/8 - 4-1/2 in	98 - 114 mm
Bit Box Connection		2-3/8 REGULAR	
Bearing Load On Bottom	Dynamic	28230 lbf	12560 daN
	Static	83280 lbf	37040 daN
Bearing Load Off Bottom	Dynamic	28230 lbf	12560 daN
	Static	83280 lbf	37040 daN
Max. Overpull (for re-run)		49100 lbf	22000 daN
Absolute Overpull		81800 lbf	36000 daN
Adjustable Makeup Torque		2500 ft-lbs	3390 Nm
B = Bit to Bend	Adjustable	42.9 in	1090 mm
	Fixed	34 in	864 mm
C = Overall (Rotor Catch/Float Sub)		188.3 in	4783 mm
Weight		274 lbs	124.3 kg

Lobe Configuration	7-8 Lobe 3.0 Stage HR	
Displacement (NO LOAD)	1.69 rev/gal	0.45 rev/l
Max. Differential @ FULL LOAD	900 psi	6,205 kPa
Max. Torque	1,154 ft-lbs	1,565 Nm
Max. Power	53 HP	39 kW

Flow Rate		Speed
GPM	LPM	RPM
80	303	130 - 146
120	454	185 - 201
160	606	240 - 255



Possible damage may occur when motor is run higher than 70% of Maximum Differential Pressure.

ADJUSTABLE BUILD RATE: 3-1/8 in (79 mm) 7-8 Lobe 3.0 Stage HR SERIES 1

Hole Size	SLICK			STABILIZED		
	3-7/8 (98 mm)	4-1/8 (105 mm)	4-1/2 (114 mm)	3-7/8 (98 mm)	4-1/8 (105 mm)	4-1/2 (114 mm)
BEND ANGLE	Degrees per 100 Feet (30 m)			Degrees per 100 Feet (30 m)		
0.39	1.11	-	-	-	-	-
0.78	5.71	3.94	1.3	-	-	-
1.15	10.07	8.31	5.66	-	-	-
1.50	14.2	12.44	9.79	-	-	-
1.83	18.09	16.33	13.68	-	-	-
2.12	21.51	19.74	17.1	-	-	-
2.38	24.57	22.81	20.16	-	-	-
2.60	27.16	25.4	22.76	-	-	-
2.77	29.17	27.4	24.76	-	-	-
2.90	30.7	28.94	26.29	-	-	-
2.97	31.52	29.76	27.11	-	-	-
3.00	31.88	30.11	27.47	-	-	-

FBH BUILD RATE: 3-1/8 in (79 mm) 7-8 Lobe 3.0 Stage HR SERIES 1

Hole Size	SLICK			STABILIZED		
	3-7/8 (98 mm)	4-1/8 (105 mm)	4-1/2 (114 mm)	3-7/8 (98 mm)	4-1/8 (105 mm)	4-1/2 (114 mm)
BEND ANGLE	Degrees per 100 Feet (30 m)			Degrees per 100 Feet (30 m)		
1.25	10.45	8.29	5.04	-	-	-
1.50	13.4	11.24	7.99	-	-	-
1.75	16.35	14.18	10.93	-	-	-
2.00	19.3	17.13	13.88	-	-	-

This information is for reference only. Build rates are theoretical calculations using three-point geometry and new motor builds. Actual rate predictions will depend on formation characteristics, bit profiles, and WOB.

For custom motor configurations and build rates, please contact your DYNOMAX office.