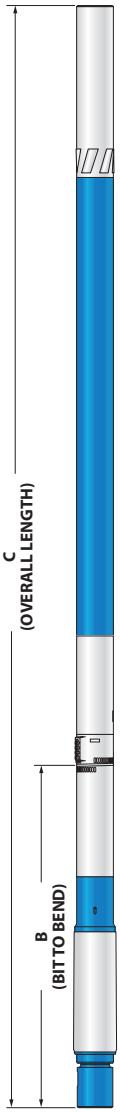
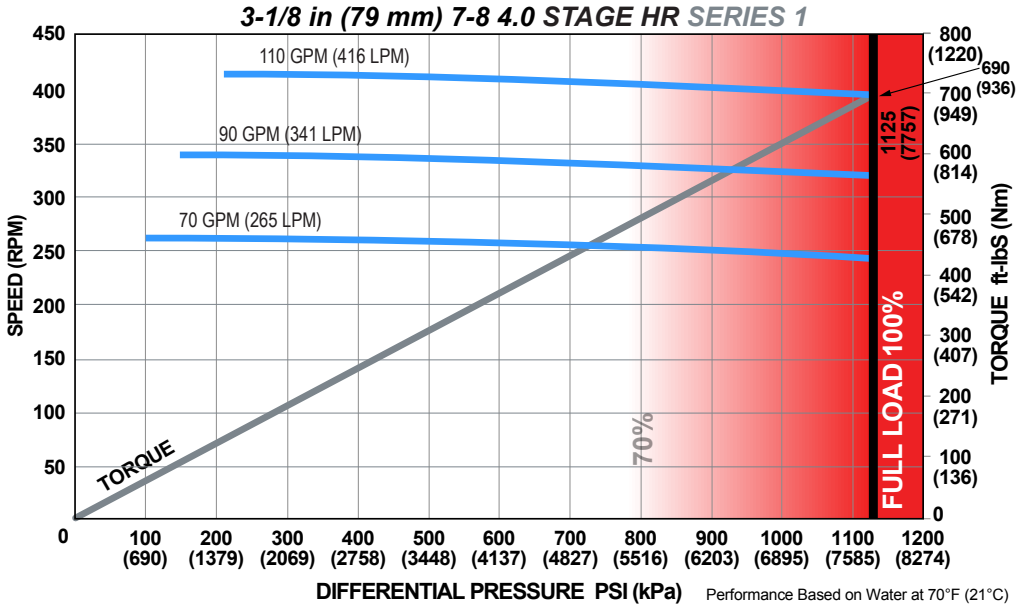
3-1/8 in (79 mm) 7-8 Lobe 4.0 Stage HR SERIES 1



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)		156.3 in	3970 mm
Weight		250 lbs	113.4 kg

Lobe Configuration	7-8 Lobe 4.0 Stage HR	
Displacement (NO LOAD)	3.71 rev/gal	0.98 rev/l
Max. Differential @ FULL LOAD	1,125 psi	7,757 kPa
Max. Torque	690 ft-lbs	936 Nm
Max. Power	51 HP	38 kW

Flow Rate		**Speed**
GPM	**LPM**	**RPM**
70	265	240 - 263
90	341	315 - 339
110	416	390 - 415



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 4.0 Stage 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	6.84	4.73	1.56	-	-	-
0.78	12.07	9.96	6.79	-	-	-
1.15	17.02	14.9	11.73	-	-	-
1.50	21.68	19.56	16.39	-	-	-
1.83	25.77	23.66	20.49	-	-	-
2.12	29.45	27.33	24.16	-	-	-
2.38	32.55	30.44	27.27	-	-	-
2.60	34.95	32.84	29.67	-	-	-
2.77	36.79	34.68	31.51	-	-	-
2.90	37.78	35.66	32.49	-	-	-
2.97	38.2	36.09	32.92	-	-	-
3.00	38.2	36.09	32.92	-	-	-

FBH BUILD RATE: 3-1/8 in (79 mm) 7-8 Lobe 4.0 Stage 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	12.53	9.93	6.04	-	-	-
1.50	16.06	13.46	9.57	-	-	-
1.75	19.59	17	13.1	-	-	-
2.00	23.12	20.53	16.64	-	-	-

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.

September 28, 2016

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