

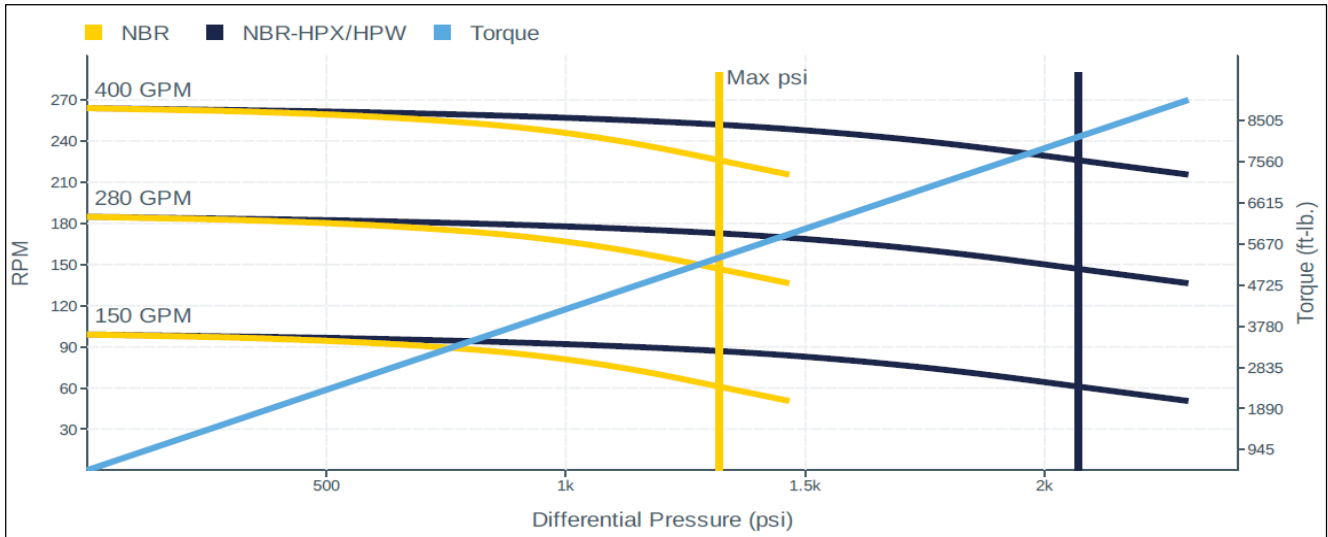


PANTHER

5.00" 6/7 Lobes 8.8 Stages

POWER SECTION

PERFORMANCE SPECIFICATIONS		PERFORMANCE DETAILS		
		NBR		NBR-HPW/HPX
Torque Slope	3.70 ft-lb/psi	Max Diff Pressure psi	1,320	2,070
Flow Range	150 - 400 GPM	Max Torque ft-lb	4,890	7,660
Rotation	.660 rev/gal	Stall Diff Press psi	1,980	3,260
Speed Range	100 - 260 RPM	Stall Torque ft-lb	7,330	12,060
Off Bottom Pressure	120 psi	Max Recommended HP	242	330



Build Rate (°/100')														
PANTHER	Housing Type		Fixed Bend				Fixed Bend (Ti Flex Shaft)				Adjustable			
	Hole Size		6.125	6.25	6.5	6.75	6.125	6.25	6.5	6.75	6.125	6.25	6.5	6.75
	Motor Bend Angle	0.25	2.04	2.00	1.92	1.85	1.32	1.29	1.24	1.19	1.59	1.56	1.50	1.44
	0.50	4.08	4.00	3.85	3.70	2.63	2.58	2.48	2.39	3.18	3.12	3.00	2.89	
	0.75	6.12	6.00	5.77	5.56	3.95	3.87	3.72	3.58	4.77	4.68	4.50	4.33	
	1.00	8.16	8.00	7.69	7.41	5.27	5.16	4.96	4.78	6.36	6.23	5.99	5.77	
	1.25	10.20	10.00	9.62	9.26	6.58	6.45	6.20	5.97	7.95	7.79	7.49	7.22	
	1.50	12.24	12.00	11.54	11.11	7.90	7.74	7.44	7.17	9.54	9.35	8.99	8.66	
	1.75	14.29	14.00	13.46	12.96	9.22	9.03	8.68	8.36	11.13	10.91	10.49	10.10	
	2.00	16.33	16.00	15.38	14.81	10.53	10.32	9.93	9.56	12.72	12.47	11.99	11.54	
	2.25	18.37	18.00	17.31	16.67	11.85	11.61	11.17	10.75	14.31	14.03	13.49	12.99	
	2.50	20.41	20.00	19.23	18.52	13.17	12.90	12.41	11.95	15.90	15.58	14.99	14.43	
	2.75	22.45	22.00	21.15	20.37	14.48	14.19	13.65	13.14	17.49	17.14	16.48	15.87	
	3.00	24.49	24.00	23.08	22.22	15.80	15.48	14.89	14.34	19.08	18.70	17.98	17.32	

MOTOR ROTARY ANGLES													
Maximum Recommended Fixed Bend Angle for Rotary Speeds Up to 100 RPM													
Motor O.D.		Slick				Partially Stabilized				Fully Stabilized			
7"	Hole Size	5 3/4"	6 1/8"	6 3/4"	7 7/8"	5 3/4"	6 1/8"	6 3/4"	7 7/8"	5 3/4"	6 1/8"	6 3/4"	7 7/8"
	Max. Bend	1.50°	1.75°	1.75°	2.00°	1.25°	1.50°	1.75°	1.75°	1.50°	1.50°	1.50°	1.50°
Maximum Recommended Adjustable Bend Angle for Rotary Speeds Up to 100 RPM													
Motor O.D.		Slick				Partially Stabilized				Fully Stabilized			
7"	Hole Size	5 3/4"	6 1/8"	6 3/4"	7 7/8"	5 3/4"	6 1/8"	6 3/4"	7 7/8"	5 3/4"	6 1/8"	6 3/4"	7 7/8"
	Max. Bend	1.00°	1.25°	1.50°	2.00°	1.00°	1.25°	1.75°	1.75°	1.25°	1.25°	1.25°	1.25°

- Partially Stabilized motor has to be a 1/8" undergauge near bit stabilizer.
- Fully Stabilized motor has a 1/8" undergauge near-bit stabilizer and a 1/8" undergauge top stabilizer located immediately above the motor.
- The above values are not valid if a bit cross-over is used.
- Aggressive rotation of the motor should be avoided if the dogleg severity exceeds 10°/100ft (Fixed Bend Motor) & exceeds 8°/100ft. (Adjustable Bend Motor)
- For every 0.125° above values listed in chart reduce rotation by 20 rpm.

GENERAL INFORMATION			
Standard Bit Connection (1)	3 1/2" Reg	Max Bit Pull (3)	200,000 lbs.
Standard Top Connection (1)	3 1/2" IF	Max Body Pull (3)	425,000 lbs.
Max Weight on Bit (Operating)	40,500 lbs.	Max Axial Play for Re-run	0.175 in.
Max Weight on Bit (Continuous) (2)	20,250 lbs.		

(1) Other connections available upon request.
 (2) Optimal motor life.
 (3) Exceeding these values may cause motor components to remain in hole.