

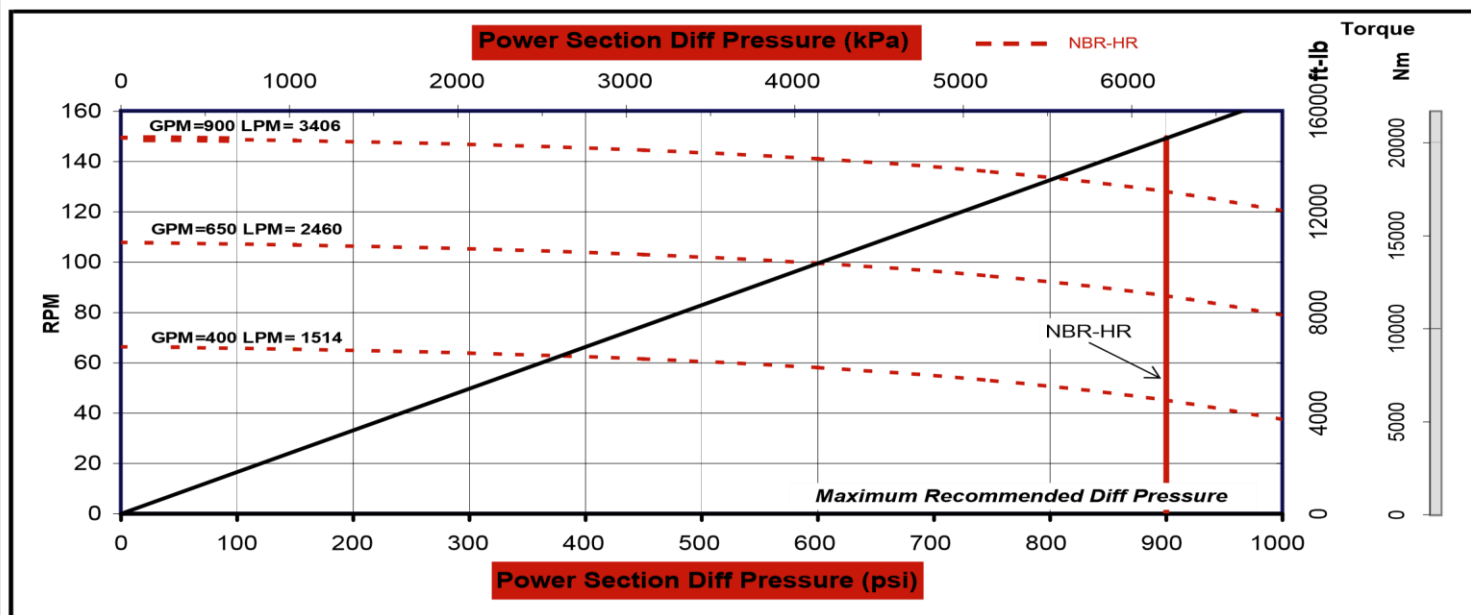


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SUPERHAWK 775 – 7:8 Profile 4.0 Stage HR - 7 3/4" O.D.

GENERAL DATA			
BIT SIZES	9 7/8" thru 12 1/4"	MAX. WOB – (w/flow)	116,000 lbs
BIT CONNECTION	6 5/8" REG	OPTIMUM WOB - (w/flow)	58,000 Lbs
TOP CONNECTION	6 5/8" REG	MAX. WOB – (w/o flow)	325,000 lbs
TORQUE - CONNECTIONS	40,000 ft-lb	MAX. BIT PULL – (w/damage)	450,000 lbs
TORQUE - ABH	43,500 ft-lb	MAX BODY PULL – (w/damage)	1,000,000 lbs

PHYSICAL PROPERTIES	
BIT TO BEND LENGTH (ABH)	88.50 in.
BIT TO BEND LENGTH (FIXED)	68.50 in.
NOMINAL LENGTH	344.5 in.
WEIGHT	3350 lbs.
PERFORMANCE DATA	
FLOW RANGE	300 – 900 gpm
SPEED RANGE	48 - 143 rpm
SPEED RATIO	0.16 rev/gal
MAX. DIFFERENTIAL PRESSURE	1,000 psi
TORQUE RATIO	16.40 ft-lb/psi
TORQUE AT MAX DIFFERENTIAL	16,400 ft-lb
STALL TORQUE	32,800 ft-lb



CALCULATED BUILD UP RATES – DEGREES / 100 ft.* (FIXED)						
Angle (Deg)	Hole Size (in) – Slick Sleeve			Hole Size (in) - Stabilized		
	9 7/8"	10 5/8"	12 1/4"	9 7/8"	10 5/8"	12 1/4"
0.25	1.7	1.1		2.0	2.4	3.4
0.50	3.0	2.4	1.2	3.4	3.9	4.9
0.75	4.3	3.7	2.6	4.9	5.3	6.3
1.00	5.6	5.1	3.9	6.3	6.8	7.8
1.25	6.9	6.4	5.2	7.8	8.2	9.2
1.50	8.2	7.7	6.5	9.2	9.7	10.7
1.75	9.5	9.0	7.8	10.7	11.1	12.1
2.00	10.8	10.3	9.1	12.1	12.6	13.6
2.25	12.1	11.6	10.4	13.6	14.0	15.0
2.50	13.5	12.9	11.7	15.0	15.5	16.5
2.75	14.8	14.2	13.0	16.5	16.9	17.9
3.00	16.1	15.5	14.3	17.9	18.4	19.4

CALCULATED BUILD UP RATES – DEGREES / 100 ft.* (ABH)						
Angle (Deg)	Hole Size (in) – Slick Sleeve			Hole Size (in) - Stabilized		
	9 7/8"	10 5/8"	12 1/4"	9 7/8"	10 5/8"	12 1/4"
0.25	1.2	1.0		1.9	2.3	3.3
0.50	2.5	2.3	1.8	3.2	3.7	4.7
0.75	3.9	3.6	3.2	4.6	5.0	6.0
1.00	5.2	4.9	4.5	5.9	6.4	7.3
1.25	6.5	6.2	5.8	7.3	7.7	8.7
1.50	7.8	7.6	7.1	8.6	9.1	10.0
1.75	9.1	8.9	8.4	9.9	10.4	11.4
2.00	10.4	10.2	9.7	11.3	11.7	12.7
2.25	11.7	11.5	11.0	12.6	13.1	14.1
2.50	13.0	12.8	12.3	14.0	14.4	15.4
2.75	14.3	14.1	13.6	15.3	15.8	16.8
3.00	15.6	15.4	14.9	16.7	17.1	18.1

* Actual Build Up Rates subject to varying factors; including formation, weight on bit.
SH77 – 7.8 4.0
6/18/14