

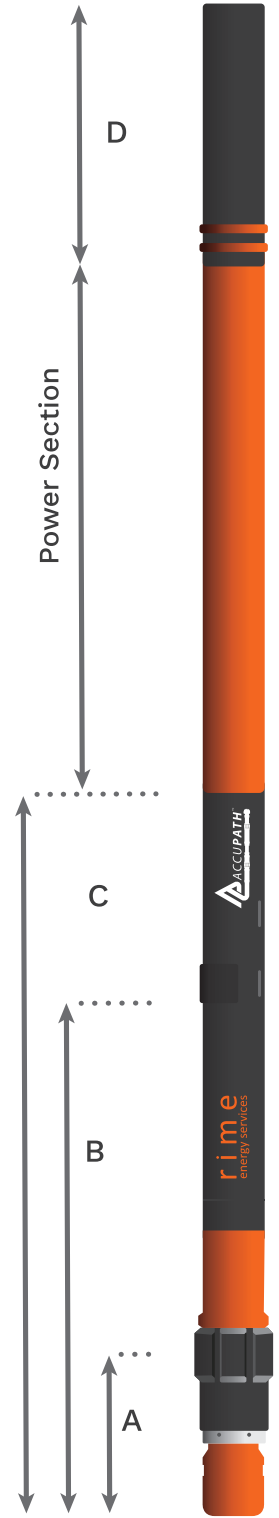
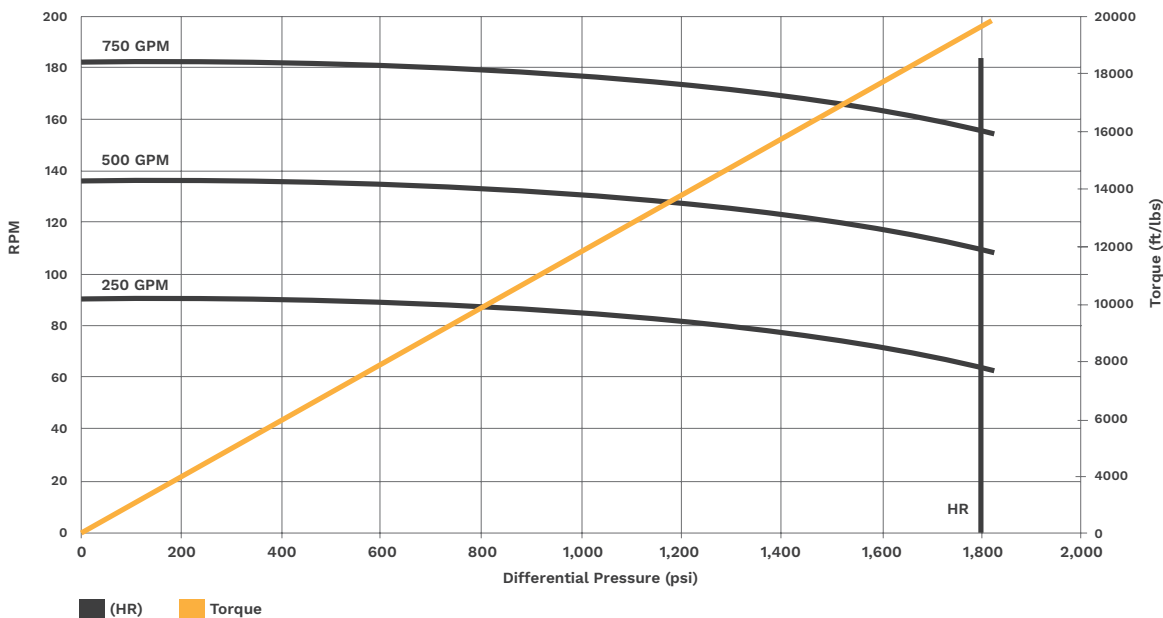
Hole Size	SLICK – ADJUSTABLE ASSEMBLY				STABILIZED – ADJUSTABLE ASSEMBLY			
	THEORETICAL BUILD RATES							
BEND ANGLE	DEGREES PER 100 FEET				DEGREES PER 100 FEET			
0.39	1.50	1.30	1.10	0.80	2.60	2.90	3.20	4.30
0.78	7.50	6.90	6.30	3.80	4.90	5.40	5.70	6.90
1.15	7.95	7.30	6.50	3.95	7.15	7.80	8.10	9.30
1.50	10.10	9.50	8.90	6.40	9.80	10.10	10.40	11.50
1.83	12.50	11.90	11.30	8.80	12.10	12.30	12.50	13.70
2.12	14.50	13.95	13.50	10.90	13.90	14.20	14.40	15.60
2.38	16.40	15.90	15.40	21.80	15.50	15.90	16.10	17.30
2.60	17.95	17.50	16.95	14.40	16.60	17.30	17.60	18.70
2.77	19.40	18.80	18.20	15.70	18.00	18.40	18.70	19.80
2.90	20.40	19.80	19.20	16.60	18.60	19.20	19.50	20.70
2.97	20.95	20.40	19.80	17.40	19.00	19.70	20.00	21.20
3.00	21.20	20.60	19.95	17.50	19.30	19.90	20.20	21.30

Hole Size	SLICK – FIXED HOUSING				STABILIZED – FIXED HOUSING			
	THEORETICAL BUILD RATES							
BEND ANGLE	DEGREES PER 100 FEET				DEGREES PER 100 FEET			
1.25	8.00	7.35	6.55	3.85	9.80	10.10	10.40	11.50
1.50	12.55	11.95	11.35	8.85	12.10	12.30	12.50	13.70
1.75	13.55	12.95	12.65	9.75	12.90	13.10	13.60	14.10
2.00	14.55	14.10	13.55	10.95	13.90	14.20	14.40	15.60
2.25	16.45	15.95	15.45	12.85	15.50	15.90	16.10	17.30

SPECIFICATIONS	
(A) Bit Box to STAB	15.75"
(B) Bit Box to Bend, ADJ.	61"
(B) Bit Box to Bend, FIX	48.5"
(C) Bit Box to Stator	110"
Power Section	275"
(D) RotorCatch	30"
Overall Length	386.50"
Effective Pad Diameter	7.64"
On Bottom Load	170,000 lbs
Off Bottom Load	170,000 lbs
Max WOB	585,000 lbs
Max Torque Capacity	38,000 ft-lb
Bit Box Conn.	4 1/2" REG
Max Overpull	859,000 lbs
Weight	2310 lbs

PERFORMANCE SPECIFICATIONS	
Flow Range (gpm)	300–750
Speed Range (rpm)	80–200
Torque Slope (ft-lb/psi)	9.70
Rotation (rev/gal)	0.266
Off Bottom Pressure (psi)	120

PERFORMANCE DETAILS	
	HR
Max Diff Press (psi)	1800
Stall Diff Press (psi)	2600
Max Torque (ft-lb)	17400
Stall Torque (ft-lb)	30000



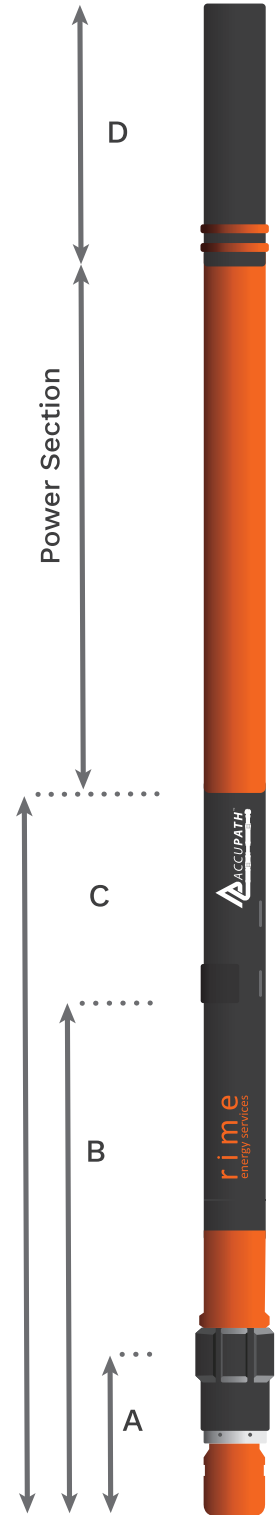
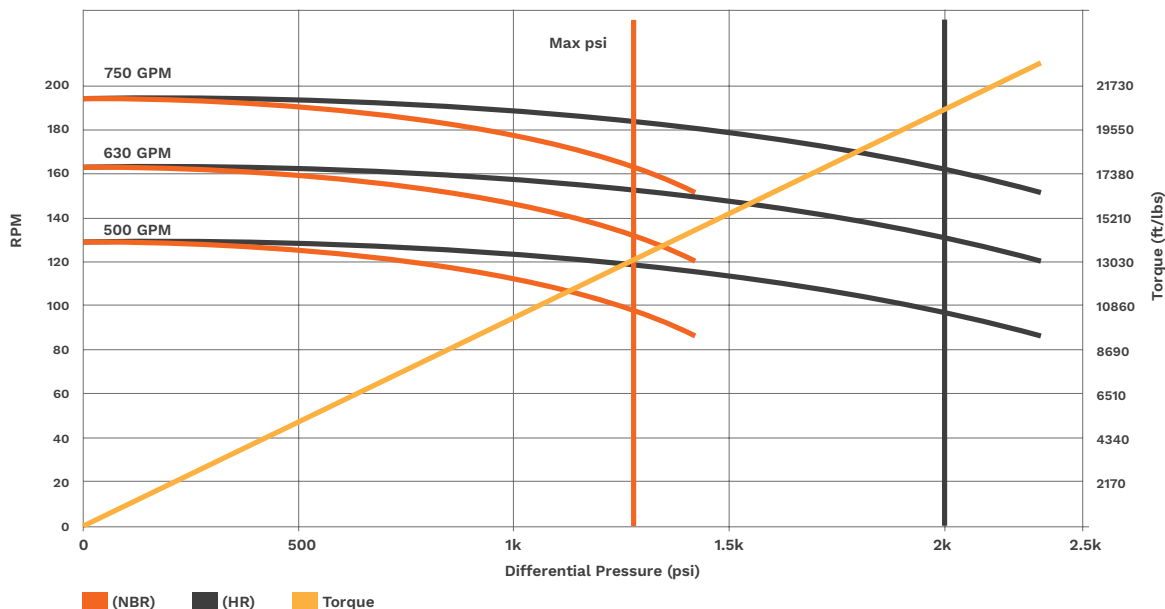
Hole Size	SLICK – ADJUSTABLE ASSEMBLY				STABILIZED – ADJUSTABLE ASSEMBLY			
	THEORETICAL BUILD RATES							
BEND ANGLE	DEGREES PER 100 FEET				DEGREES PER 100 FEET			
0.39	1.50	1.30	1.10	0.80	2.60	2.90	3.20	4.30
0.78	7.50	6.90	6.30	3.80	4.90	5.40	5.70	6.90
1.15	7.95	7.30	6.50	3.95	7.15	7.80	8.10	9.30
1.50	10.10	9.50	8.90	6.40	9.80	10.10	10.40	11.50
1.83	12.50	11.90	11.30	8.80	12.10	12.30	12.50	13.70
2.12	14.50	13.95	13.50	10.90	13.90	14.20	14.40	15.60
2.38	16.40	15.90	15.40	21.80	15.50	15.90	16.10	17.30
2.60	17.95	17.50	16.95	14.40	16.60	17.30	17.60	18.70
2.77	19.40	18.80	18.20	15.70	18.00	18.40	18.70	19.80
2.90	20.40	19.80	19.20	16.60	18.60	19.20	19.50	20.70
2.97	20.95	20.40	19.80	17.40	19.00	19.70	20.00	21.20
3.00	21.20	20.60	19.95	17.50	19.30	19.90	20.20	21.30

Hole Size	SLICK – FIXED HOUSING				STABILIZED – FIXED HOUSING			
	THEORETICAL BUILD RATES							
BEND ANGLE	DEGREES PER 100 FEET				DEGREES PER 100 FEET			
1.25	8.00	7.35	6.55	3.85	9.80	10.10	10.40	11.50
1.50	12.55	11.95	11.35	8.85	12.10	12.30	12.50	13.70
1.75	13.55	12.95	12.65	9.75	12.90	13.10	13.60	14.10
2.00	14.55	14.10	13.55	10.95	13.90	14.20	14.40	15.60
2.25	16.45	15.95	15.45	12.85	15.50	15.90	16.10	17.30

SPECIFICATIONS	
(A) Bit Box to STAB	15.75"
(B) Bit Box to Bend, ADJ.	61"
(B) Bit Box to Bend, FIX	48.5"
(C) Bit Box to Stator	110"
Power Section	300"
(D) RotorCatch	30"
Overall Length	411.50"
Effective Pad Diameter	7.64"
On Bottom Load	170,000 lbs
Off Bottom Load	170,000 lbs
Max WOB	585,000 lbs
Max Torque Capacity	38,000 ft-lb
Bit Box Conn.	4 1/2" REG
Max Overpull	859,000 lbs
Weight	2510 lbs

PERFORMANCE SPECIFICATIONS	
Flow Range (gpm)	500–750
Speed Range (rpm)	130–200
Torque Slope (ft-lb/psi)	9.78
Rotation (rev/gal)	0.260
Off Bottom Pressure (psi)	170

PERFORMANCE DETAILS		
	NBR	HR
Max Diff Press (psi)	1280	2000
Stall Diff Press (psi)	1920	3150
Max Torque (ft-lb)	12470	19540
Stall Torque (ft-lb)	18710	30770



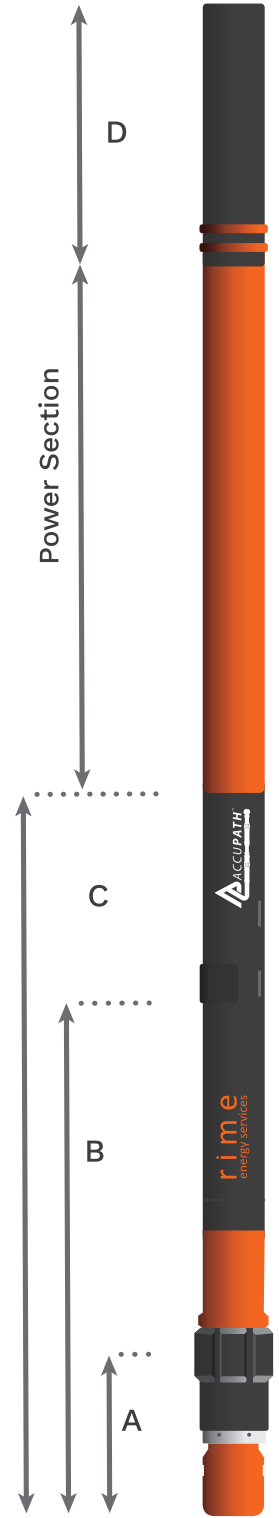
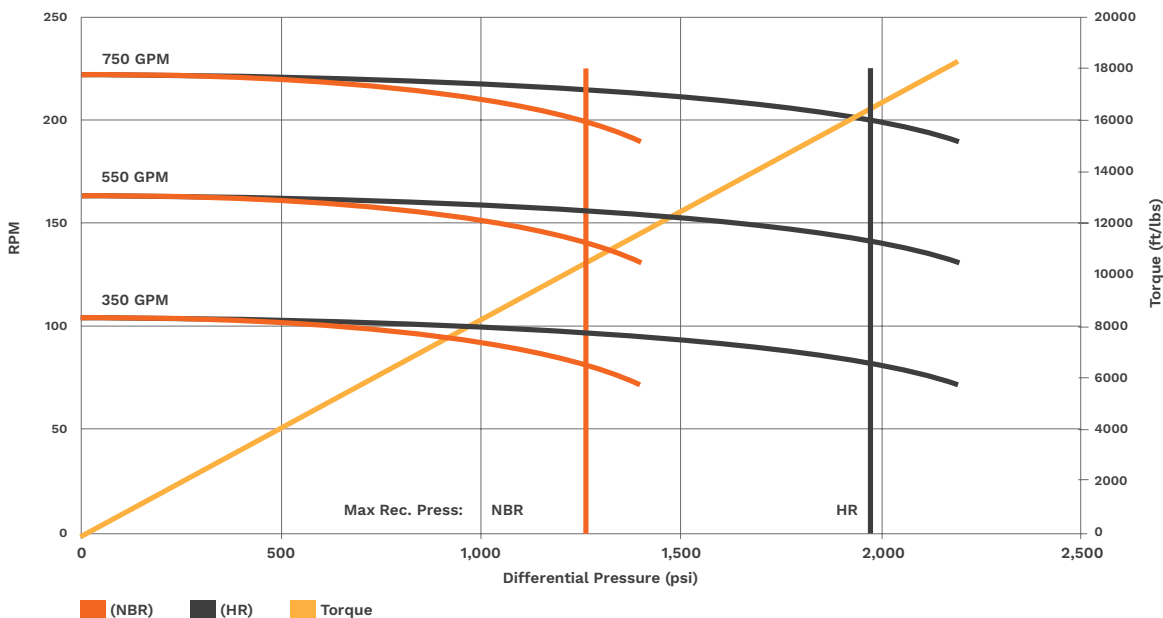
Hole Size	SLICK – ADJUSTABLE ASSEMBLY				STABILIZED – ADJUSTABLE ASSEMBLY			
	THEORETICAL BUILD RATES							
BEND ANGLE	DEGREES PER 100 FEET				DEGREES PER 100 FEET			
0.39	1.50	1.30	1.10	0.80	2.60	2.90	3.20	4.30
0.78	7.50	6.90	6.30	3.80	4.90	5.40	5.70	6.90
1.15	7.95	7.30	6.50	3.95	7.15	7.80	8.10	9.30
1.50	10.10	9.50	8.90	6.40	9.80	10.10	10.40	11.50
1.83	12.50	11.90	11.30	8.80	12.10	12.30	12.50	13.70
2.12	14.50	13.95	13.50	10.90	13.90	14.20	14.40	15.60
2.38	16.40	15.90	15.40	21.80	15.50	15.90	16.10	17.30
2.60	17.95	17.50	16.95	14.40	16.60	17.30	17.60	18.70
2.77	19.40	18.80	18.20	15.70	18.00	18.40	18.70	19.80
2.90	20.40	19.80	19.20	16.60	18.60	19.20	19.50	20.70
2.97	20.95	20.40	19.80	17.40	19.00	19.70	20.00	21.20
3.00	21.20	20.60	19.95	17.50	19.30	19.90	20.20	21.30

Hole Size	SLICK – FIXED HOUSING				STABILIZED – FIXED HOUSING			
	THEORETICAL BUILD RATES							
BEND ANGLE	DEGREES PER 100 FEET				DEGREES PER 100 FEET			
1.25	8.00	7.35	6.55	3.85	9.80	10.10	10.40	11.50
1.50	12.55	11.95	11.35	8.85	12.10	12.30	12.50	13.70
1.75	13.55	12.95	12.65	9.75	12.90	13.10	13.60	14.10
2.00	14.55	14.10	13.55	10.95	13.90	14.20	14.40	15.60
2.25	16.45	15.95	15.45	12.85	15.50	15.90	16.10	17.30

SPECIFICATIONS	
(A) Bit Box to STAB	15.75"
(B) Bit Box to Bend, ADJ.	61"
(B) Bit Box to Bend, FIX	48.5"
(C) Bit Box to Stator	110"
Power Section	275"
(D) RotorCatch	30"
Overall Length	386.50"
Effective Pad Diameter	7.64"
On Bottom Load	170,000 lbs
Off Bottom Load	170,000 lbs
Max WOB	585,000 lbs
Max Torque Capacity	38,000 ft-lb
Bit Box Conn.	4 1/2" REG
Max Overpull	859,000 lbs
Weight	2410 lbs

PERFORMANCE SPECIFICATIONS	
Flow Range (gpm)	350–750
Speed Range (rpm)	110–330
Torque Slope (ft-lb/psi)	8.38
Rotation (rev/gal)	0.300
Off Bottom Pressure (psi)	160

PERFORMANCE DETAILS		
	NBR	HR
Max Diff Press (psi)	1260	1980
Stall Diff Press (psi)	1890	3110
Max Torque (ft-lb)	10560	16550
Stall Torque (ft-lb)	15840	26060



Hole Size	SLICK - ADJUSTABLE ASSEMBLY				STABILIZED - ADJUSTABLE ASSEMBLY			
	THEORETICAL BUILD RATES							
BEND ANGLE	DEGREES PER 100 FEET				DEGREES PER 100 FEET			
0.39	1.50	1.30	1.10	0.80	2.60	2.90	3.20	4.30
0.78	7.50	6.90	6.30	3.80	4.90	5.40	5.70	6.90
1.15	7.95	7.30	6.50	3.95	7.15	7.80	8.10	9.30
1.50	10.10	9.50	8.90	6.40	9.80	10.10	10.40	11.50
1.83	12.50	11.90	11.30	8.80	12.10	12.30	12.50	13.70
2.12	14.50	13.95	13.50	10.90	13.90	14.20	14.40	15.60
2.38	16.40	15.90	15.40	21.80	15.50	15.90	16.10	17.30
2.60	17.95	17.50	16.95	14.40	16.60	17.30	17.60	18.70
2.77	19.40	18.80	18.20	15.70	18.00	18.40	18.70	19.80
2.90	20.40	19.80	19.20	16.60	18.60	19.20	19.50	20.70
2.97	20.95	20.40	19.80	17.40	19.00	19.70	20.00	21.20
3.00	21.20	20.60	19.95	17.50	19.30	19.90	20.20	21.30

Hole Size	SLICK - FIXED HOUSING				STABILIZED - FIXED HOUSING			
	THEORETICAL BUILD RATES							
BEND ANGLE	DEGREES PER 100 FEET				DEGREES PER 100 FEET			
1.25	8.00	7.35	6.55	3.85	9.80	10.10	10.40	11.50
1.50	12.55	11.95	11.35	8.85	12.10	12.30	12.50	13.70
1.75	13.55	12.95	12.65	9.75	12.90	13.10	13.60	14.10
2.00	14.55	14.10	13.55	10.95	13.90	14.20	14.40	15.60
2.25	16.45	15.95	15.45	12.85	15.50	15.90	16.10	17.30

SPECIFICATIONS	
(A) Bit Box to STAB	15.75"
(B) Bit Box to Bend, ADJ.	61"
(B) Bit Box to Bend, FIX	48.5"
(C) Bit Box to Stator	110"
Power Section	260"
(D) RotorCatch	30"
Overall Length	371.50"
Effective Pad Diameter	7.64"
On Bottom Load	170,000 lbs
Off Bottom Load	170,000 lbs
Max WOB	585,000 lbs
Max Torque Capacity	38,000 ft-lb
Bit Box Conn.	4 1/2" REG
Max Overpull	859,000 lbs
Weight	2410 lbs

PERFORMANCE SPECIFICATIONS	
Flow Range (gpm)	350-750
Speed Range (rpm)	130-290
Torque Slope (ft-lb/psi)	6.68
Rotation (rev/gal)	0.380
Off Bottom Pressure (psi)	180

PERFORMANCE DETAILS		
	NBR	HR
Max Diff Press (psi)	1250	1960
Stall Diff Press (psi)	1870	3080
Max Torque (ft-lb)	8320	13030
Stall Torque (ft-lb)	12480	20530

