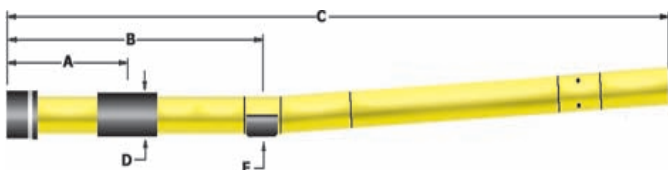




3 3/4" (95 mm)

Mud Motors



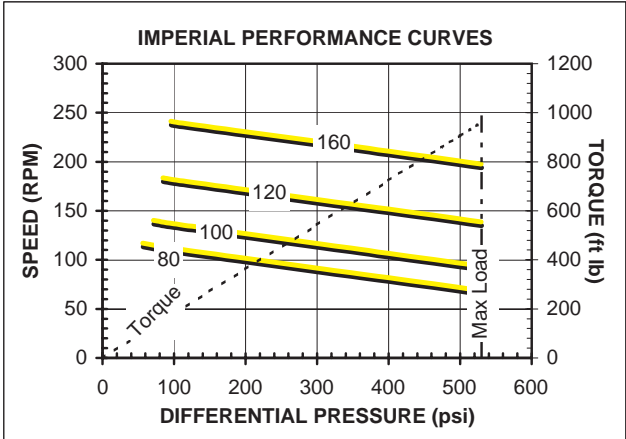
	Imperial		Metric	
A. Distance to stabilizer	N/A	inch	N/A	mm
B. Box to Bend	44	inch	1,118	mm
C. Overall Length	227	inch	5,766	mm
D. Thread Prot. Diameter	4.38	inch	111	mm
E. Kick Pad Diameter	4.00	inch	102	mm

Top Connection	AS PER REQUEST				
Bottom Connection	2 7/8" Reg		2 7/8" Reg		
Weight	425	lb	189	daN	
Maximum Flow Rate	160	gpm	0.61	m ³ /min	
Maximum Torque	960	ft-lb	1,300	N-m	
Maximum Power	39	hp	29	kW	
Maximum Weight on bit	Dynamic	20,000	lb	8,900	daN
	Static	61,000	lb	27,000	daN
Maximum Allowable Pull	61,000	lb	27,000	daN	
Pull to Yield Motor	150,000	lb	67,000	daN	

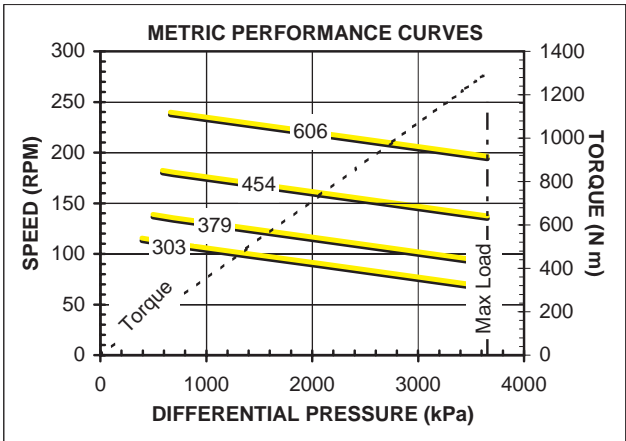
Build Rate (degrees/100ft(30 m))			
Bend Settings (degrees)	Hole Sizes (in, mm)		
	4 3/4"	5 1/4"	5 7/8"
	121 mm	133 mm	149 mm
0.26	0.00	0.00	0.00
0.52	0.81	0.00	0.00
0.78	3.75	0.05	0.00
1.03	6.58	2.87	0.00
1.27	9.29	5.59	0.96
1.50	11.89	8.19	3.56
1.72	14.38	10.67	6.04
1.93	16.75	13.05	8.42
2.12	18.90	15.20	10.57
2.30	20.94	17.23	12.60
2.60	24.33	20.63	16.00
2.82	26.82	23.12	18.49
2.95	28.30	24.59	19.96
3.00	28.86	25.16	20.52

3 3/4" (95 mm) 4-5 3.5 Stage

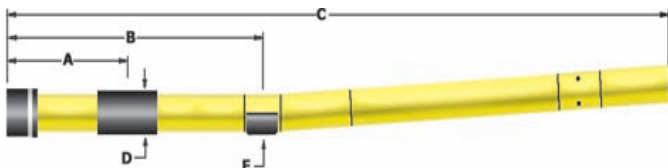
Maximum Pump Rate	160	gpm	606	Lpm
Revolutions per unit volume	1.550	rev/gal	0.410	rev/L
Pressure at full load	530	psi	3,654	kPa
Torque at full load	960	ft lb	1,300	N m



Drilling Fluid Flow (GPM)	80	100	120	160
Pressure Drop Across Motor with No Load (off-bottom pressure) (PSI)	57	72	85	96
Maximum Allowable Differential Pressure (on-bottom - off-bottom pressure) (PSI)	473	458	445	434



Drilling Fluid Flow (L/min)	303	379	454	606
Pressure Drop Across Motor with No Load (off-bottom pressure) (kPa)	393	496	586	662
Maximum Allowable Differential Pressure (on-bottom - off-bottom pressure) (kPa)	3261	3158	3068	2992



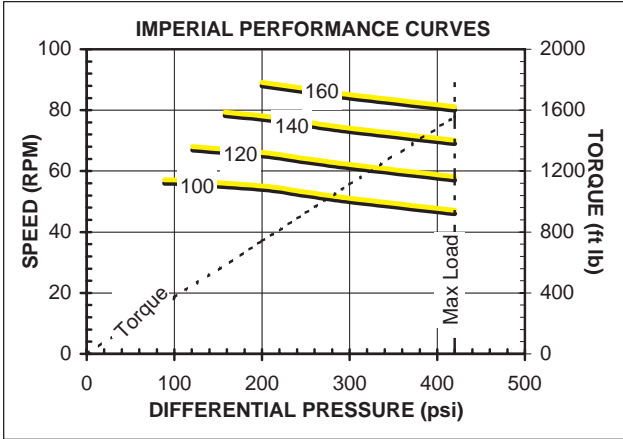
	Imperial		Metric	
A. Distance to stabilizer	N/A	inch	N/A	mm
B. Box to Bend	44	inch	1,118	mm
C. Overall Length	252	inch	6,401	mm
D. Thread Prot. Diameter	4.38	inch	111	mm
E. Kick Pad Diameter	4.00	inch	102	mm

Top Connection	AS PER REQUEST				
Bottom Connection	2 7/8" Reg		2 7/8" Reg		
Weight	491	lb	218	daN	
Maximum Flow Rate	160	gpm	0.61	m ³ /min	
Maximum Torque	1,556	ft-lb	2,110	N-m	
Maximum Power	39	hp	29	kW	
Maximum Weight on bit	Dynamic	20,000	lb	8,900	daN
	Static	61,000	lb	27,000	daN
Maximum Allowable Pull	61,000	lb	27,000	daN	
Pull to Yield Motor	150,000	lb	67,000	daN	

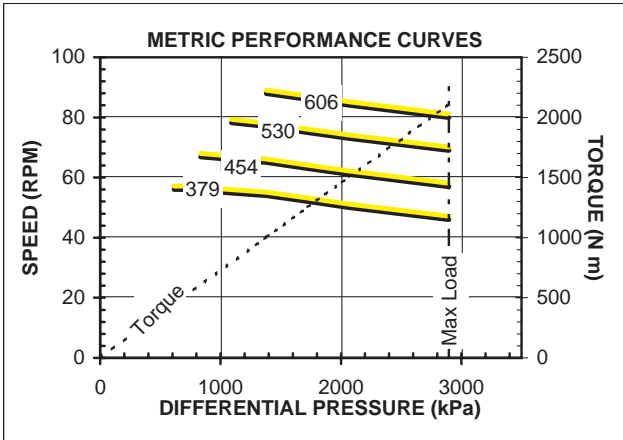
Build Rate (degrees/100ft(30 m))			
Bend Settings (degrees)	Hole Sizes (in, mm)		
	4 3/4"	5 1/4"	5 7/8"
	121 mm	133 mm	149 mm
0.26	0.00	0.00	0.00
0.52	0.80	0.00	0.00
0.78	3.80	0.10	0.00
1.03	6.60	2.90	0.00
1.27	9.30	5.60	1.00
1.50	11.90	8.20	3.60
1.72	14.40	10.70	6.00
1.93	16.80	13.10	8.40
2.12	18.90	15.20	10.60
2.30	20.90	17.20	13.60
2.60	24.30	20.60	16.00
2.82	26.80	23.10	18.50
2.95	28.30	24.60	20.00
3.00	28.90	25.20	20.50

3 3/4" (95 mm) 7-8 2.0 Stage

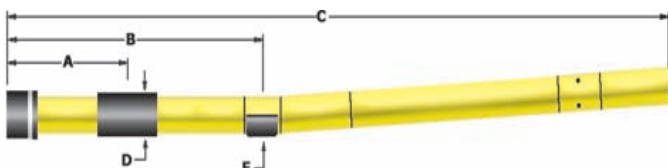
Maximum Pump Rate	160 gpm	606 Lpm
Revolutions per unit volume	0.500 rev/gal	0.132 rev/L
Pressure at full Load	420 psi	2,896 kPa
Torque at full load	1,556 ft lb	2,110 N m



Drilling Fluid Flow (GPM)	100	120	140	160
Pressure Drop Across Motor with No Load (off-bottom pressure) (PSI)	89	121	158	200
Maximum Allowable Differential Pressure (on-bottom - off-bottom pressure) (PSI)	331	299	262	220



Drilling Fluid Flow (L/min)	379	454	530	606
Pressure Drop Across Motor with No Load (off-bottom pressure) (kPa)	614	834	1089	1379
Maximum Allowable Differential Pressure (on-bottom - off-bottom pressure) (kPa)	2282	2062	1806	1517



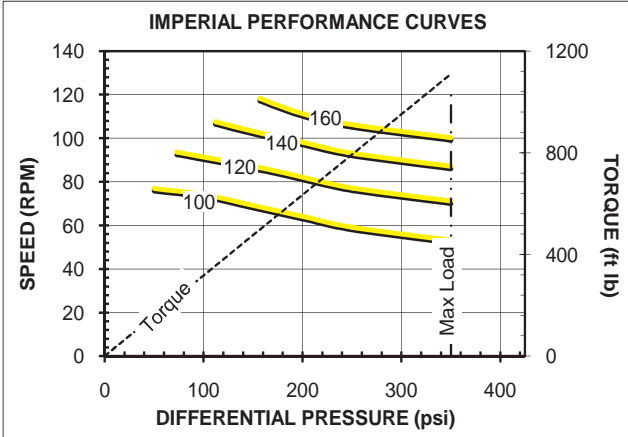
	Imperial		Metric	
A. Distance to stabilizer	N/A	inch	N/A	mm
B. Box to Bend	44	inch	1,118	mm
C. Overall Length	233	inch	5,918	mm
D. Thread Prot. Diameter	4.38	inch	111	mm
E. Kick Pad Diameter	4.00	inch	102	mm

Top Connection	AS PER REQUEST				
Bottom Connection	2 7/8" Reg		2 7/8" Reg		
Weight	428	lb	190	daN	
Maximum Flow Rate	160	gpm	0.61	m ³ /min	
Maximum Torque	1,110	ft-lb	1,510	N-m	
Maximum Power	18	hp	13	kW	
Maximum Weight on bit	Dynamic	20,000	lb	8,900	daN
	Static	61,000	lb	27,000	daN
Maximum Allowable Pull	61,000	lb	27,000	daN	
Pull to Yield Motor	150,000	lb	67,000	daN	

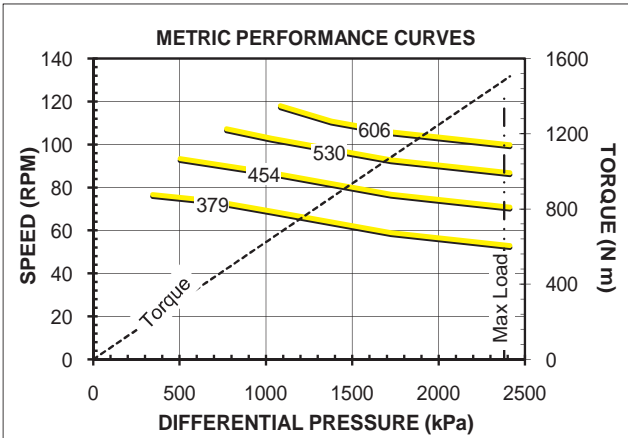
Build Rate (degrees/100ft(30 m))			
Bend Settings (degrees)	Hole Sizes (in, mm)		
	4 3/4"	5 1/4"	5 7/8"
	121 mm	133 mm	149 mm
0.26	0.00	0.00	0.00
0.52	0.81	0.00	0.00
0.78	3.75	0.05	0.00
1.03	6.58	2.87	0.00
1.27	9.29	5.59	0.96
1.50	11.89	8.19	3.56
1.72	14.38	10.67	6.04
1.93	16.75	13.05	8.42
2.12	18.90	15.20	10.57
2.30	20.94	17.23	12.60
2.60	24.33	20.63	16.00
2.82	26.82	23.12	18.49
2.95	28.30	24.59	19.96
3.00	28.86	25.16	20.52

3 3/4" (95 mm) 7-8 2.3 Stage

Maximum Pump Rate	160	gpm	606	Lpm
Revolutions per unit volume	0.768	rev/gal	0.203	rev/L
Pressure at full Load	350	psi	2,380	kPa
Torque at full load	1,110	ft lb	1,510	N m



Drilling Fluid Flow (GPM)	100	120	140	160
Pressure Drop Across Motor with No Load (off-bottom pressure) (PSI)	50	73	112	157
Maximum Allowable Differential Pressure (on-bottom minus off-bottom pressure) (PSI)	300	277	238	193



Drilling Fluid Flow (L/min)	379	454	530	606
Pressure Drop Across Motor with No Load (off-bottom pressure) (kPa)	345	503	772	1082
Maximum Allowable Differential Pressure (on-bottom minus off-bottom pressure) (kPa)	2068	1910	1641	1331

