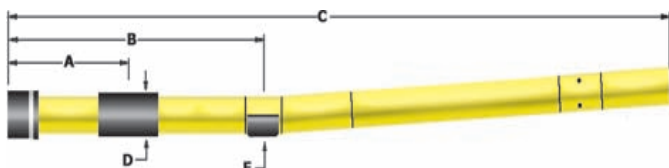




3 1/8" (79 mm)

Mud Motors



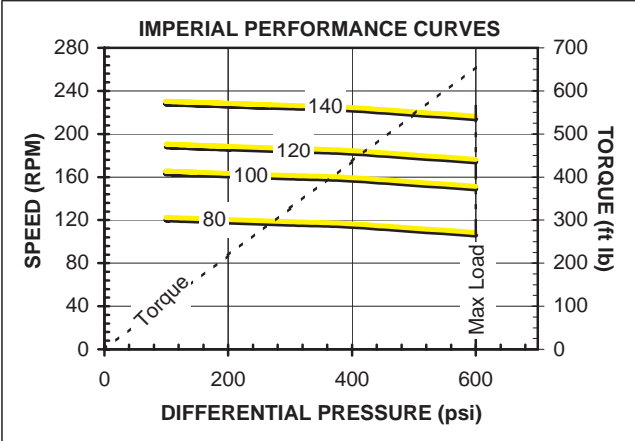
	Imperial		Metric	
A. Distance to stabilizer	N/A	inch	N/A	mm
B. Box to Bend	44	inch	1,118	mm
C. Overall Length	195	inch	4,950	mm
D. Thread Prot. Diameter	N/A	inch	N/A	mm
E. Kick Pad Diameter	3.36	inch	85.3	mm

Top Connection	AS PER REQUEST				
Bottom Connection	2 3/8" Reg		2 3/8" Reg		
Weight	287	lb	128	daN	
Maximum Flow Rate	140	gpm	0.53	m ³ /min	
Maximum Torque	655	ft-lb	888	N-m	
Maximum Power	49	hp	37	kW	
Maximum Weight on bit	Dynamic	10,850	lb	4,800	daN
	Static	32,300	lb	14,000	daN
Maximum Allowable Pull	32,300	lb	14,000	daN	
Pull to Yield Motor	150,000	lb	67,000	daN	

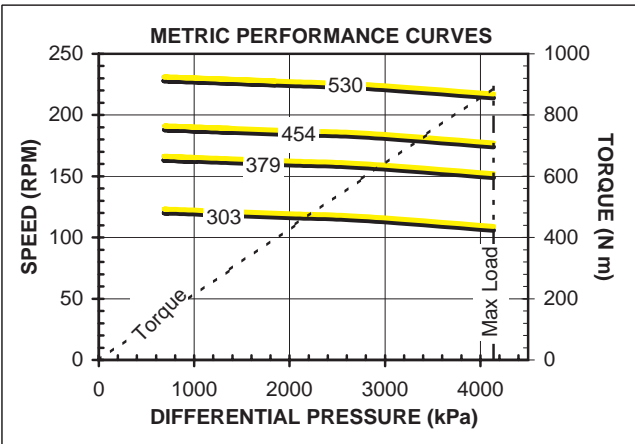
Build Rate (degrees/100ft(30 m))			
Bend Settings (degrees)	Hole Sizes (in, mm)		
	3 3/4"	4 1/8"	4 1/2"
	95 mm	105 mm	114 mm
0.26	8.40	5.05	1.70
0.52	11.93	8.59	5.24
0.78	15.47	12.12	8.77
1.03	18.87	15.52	12.77
1.27	22.14	18.79	15.44
1.50	25.26	21.92	18.57
1.72	28.26	24.91	21.56
1.93	31.12	27.77	24.42
2.12	33.70	30.36	27.01
2.30	36.16	32.81	29.46
2.60	40.24	36.89	33.54
2.82	43.24	39.89	36.54
2.95	45.02	41.67	38.31
3.00	45.70	42.35	39.00

3 1/8" (79 mm) 7-8 3.0 Stage

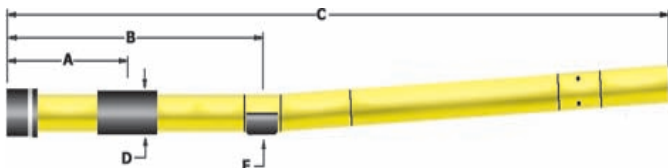
Maximum Pump Rate	140	gpm	530	Lpm
Revolutions per unit volume	1.643	rev/gal	0.434	rev/L
Pressure at full Load	600	psi	4,137	kPa
Torque at full load	655	ft lb	888	N m



Drilling Fluid Flow (GPM)	80	100	120	140
Pressure Drop Across Motor with No Load (off-bottom pressure) (PSI)	104	148	203	268
Maximum Allowable Differential Pressure (on-bottom - off-bottom pressure) (PSI)	496	452	397	332



Drilling Fluid Flow (L/min)	303	379	454	530
Pressure Drop Across Motor with No Load (off-bottom pressure) (kPa)	717	1020	1400	1848
Maximum Allowable Differential Pressure (on-bottom - off-bottom pressure) (kPa)	3420	3116	2737	2289



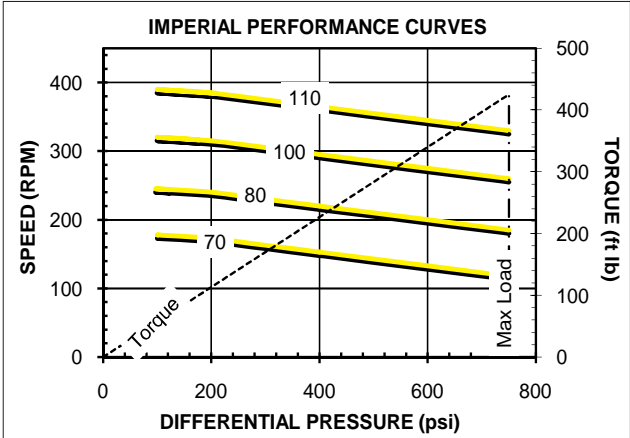
	Imperial		Metric	
A. Distance to stabilizer	N/A	inch	N/A	mm
B. Box to Bend	44	inch	1,118	mm
C. Overall Length	167	inch	4,239	mm
D. Thread Prot. Diameter	N/A	inch	N/A	mm
E. Kick Pad Diameter	3.36	inch	85.3	mm

Top Connection	AS PER REQUEST				
Bottom Connection	2 3/8" Reg		2 3/8" Reg		
Weight	255	lb	113	daN	
Maximum Flow Rate	110	gpm	0.42	m ³ /min	
Maximum Torque	425	ft-lb	313	N-m	
Maximum Power	48	hp	36	kW	
Maximum Weight on bit	Dynamic	10,850	lb	4,800	daN
	Static	32,300	lb	14,000	daN
Maximum Allowable Pull	32,300	lb	14,000	daN	
Pull to Yield Motor	150,000	lb	67,000	daN	

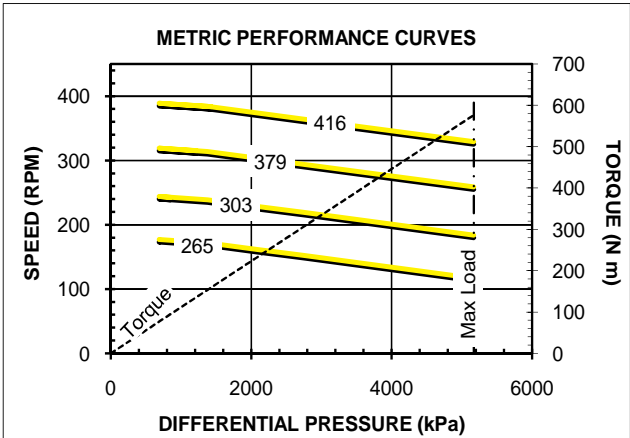
Build Rate (degrees/100ft(30 m))			
Bend Settings (degrees)	Hole Sizes (in, mm)		
	3 3/4"	4 1/8"	4 1/2"
	95 mm	105 mm	114 mm
0.26	11.21	7.14	3.06
0.52	15.50	11.43	7.35
0.78	19.80	15.72	11.65
1.03	23.92	19.85	15.77
1.27	27.89	23.81	19.73
1.50	31.68	27.61	23.53
1.72	35.32	31.24	27.17
1.93	38.78	34.71	30.64
2.12	41.93	37.85	33.78
2.30	44.91	40.83	36.75
2.60	49.87	45.79	41.71
2.82	53.52	49.44	45.35
2.95	55.67	51.59	47.51
3.00	56.50	52.42	48.34

3 1/8" (79 mm) 7-8 4.0 Stage

Maximum Pump Rate	110	gpm	416	Lpm
Revolutions per unit volume	3.564	rev/gal	0.941	rev/L
Pressure at full Load	750	psi	5171	kPa
Torque at full load	425	ft lb	576	N m



Drilling Fluid Flow (GPM)	70	80	100	110
Pressure Drop Across Motor with No Load (off-bottom pressure) (PSI)	101	123	177	208
Maximum Allowable Differential Pressure (on-bottom minus off-bottom pressure) (PSI)	649	627	573	542



Drilling Fluid Flow (L/min)	265	303	379	416
Pressure Drop Across Motor with No Load (off-bottom pressure) (kPa)	696	848	1220	1434
Maximum Allowable Differential Pressure (on-bottom minus off-bottom pressure) (kPa)	4475	4323	3951	3737

