

4-3/4" ~ 3-3/4" Sonde Mud Motor

9/10 Lobe 4 Stage

Motor Specifications	English	Metric
Model Number	475~375-910-4	
Motor Size	4.75 in ~ 3.75 in	120.65 mm ~ 99.25 mm
Rotor / Stator Lobes	9 / 10	
Stages	4	
Length	19 ft	5.8 m
Weight	750 lb	340.1 kg
Operating Flow Rate	60-140 GPM	227-530 LPM
Maximum Developed Power	33 hp	25 kW
Maximum Developed Torque	1,550 ft-lb	2,100 N-m
Speed @ No Load	78-183 RPM	
Revs Per Volume @ No Load	1.31 Rev/Gal	0.34 Rev/L
Differential Pressure @ No Load	200 psi	1378.9 kpa
Speed @ Full Load	50-150 RPM	
Revs Per Volume @ Full Load	1.07 Rev/Gal	0.28 Rev/L
Differential Pressure @ Full Load	600 psi	4,136.8 kpa
Bit to Bend	77.25 in	1962.15 mm
Maximum Pressure Drop	1,500 psi	10,342 kpa
Maximum Weight on Bit	12,000 lb	53 kN
Maximum Pull to Re-Run Motor	70,000 lb	266 kN
Pull to Yield Motor	200,000 lb	890 kN
Bit Box Connection	3-1/2 Reg	
Upper Box Connection	2-7/8 Reg	

Build Rate (Degrees Per 100 Feet)				
ABH Angle	Hole Size			
	4 3/4"	5"	5 1/2"	5 7/8"
0.35				
0.69	4.35	2.47		
1.04	9.08	7.20	3.50	0.78
1.37	13.54	11.65	7.94	5.22
1.69	17.87	15.97	12.25	9.52
2.00	22.06	20.16	16.42	13.68
2.29	25.98	24.07	20.33	17.58
2.57	29.86	27.87	24.10	21.34
2.83	33.28	31.36	27.60	24.83
3.06	36.39	34.47	30.69	27.93
3.28	39.36	37.44	33.66	30.88
3.46	41.80	39.87	36.08	33.30
3.63	44.09	42.16	38.37	35.59
3.76	45.85	43.92	40.12	37.33
3.86	47.20	45.27	41.47	38.68
3.94	48.29	46.35	42.55	39.75
3.98	48.83	46.89	43.08	40.29
4.00	49.10	47.16	43.35	40.56

Flow Rate	* Rev/Gal
60 GPM	0.83
105 GPM	1.00
150 GPM	1.07

* At Full Operating Load

