

6 ¾ in. HY-PERFORM XL Motors

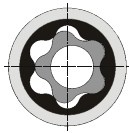
	US Units	SI Units
Length	31.7 ft	9.65 m
Weight Range	2,750-2,860 lbs	1,250-1,300 kg
Bit Size Range	8 ⅜ in. – 9 ⅞ in.	
Top Connection (Optional)	NC 50 (NC46, 4 ½ in. Reg., 4 ½ in. H90)	
Bit Connection (Optional)	4 ½ in. API Reg. Box (6 ⅝ in. API Reg. Box)	
Max. Slick OD at Wear Ring	7.36 in.	187 mm
AKO Angle Range	0° - 2.75°	
Rotor Nozzle	Yes	
Max. Flow Rates w/Nozzle	725 gpm	2,750 l/min
Ball Bearings		
WOB and Backreaming Weight	40,5 klbs	180 kN
Rerun Pull and Set-down Weight*	81 k lbs	360 kN
Ultimate Pull to Failure*	765 klbs	3,400 kN
Diamond Bearings		
WOB and Backreaming Weight	63 klbs	280 kN
Rerun Pull and Set-down Weight*	125 klbs	560 kN
Ultimate Pull to Failure*	765 klbs	3,400 kN

* While motor is not operating

Build-up Rate Capabilities*

Hole Size		Slick			Partial			Full		
		AKO	BUR	RPM	AKO	BUR	RPM	AKO	BUR	RPM
8 ½ in.	A1	0.5	0.8	125	0.3	1.8	134	0.3	0.9	128
	A2	1.8	8.8	60	1.7	9.2	60	1.2	5.4	60
	A3	2	10.1	30						
	A4									
8 ¾ in.	A1	0.6	0.9	122	0.3	1.8	134	0.3	0.9	131
	A2	1.9	8.9	60	1.7	9.3	60	1.4	6.4	60
	A3	2.2	10.8	30						
	A4	2.3	11.4	0	2.0	10.9	0			
9 ⅞ in.	A1	0.9	0.4	118	0.3	2.5	135	0.3	0.9	134
	A2	2.5	10.2	60	1.8	10.4	60	1.7	7.9	60
	A3	2.75	11.8	30						
	A4				2.75	15.4	0	2.2	9.9	0

* Refer to DMS Online for BUR charts with Half Shell type AKO.



6 3/4 in. HY-PERFORM XL/LS

5/6 – 3.0 stages

	US Units	SI Units
Flow Rate	265-660 gpm	1000-2500 l/min
Speed	40-105 rpm	
Speed to Flow Ratio	0.16 rev/gal	0.04 rev/l
No Load Pressure Drop	350 psi	24 bar

Standard or High Temperature elastomer

Operational Limits		
Differential Pressure	435 psi	30 bar
Torque	5,300 ft-lbs	7,200 Nm
Power Output	105 hp	79 kW

Maximum Operational

Differential Pressure	695 psi	48 bar
Torque	8,500 ft-lbs	11,500 Nm

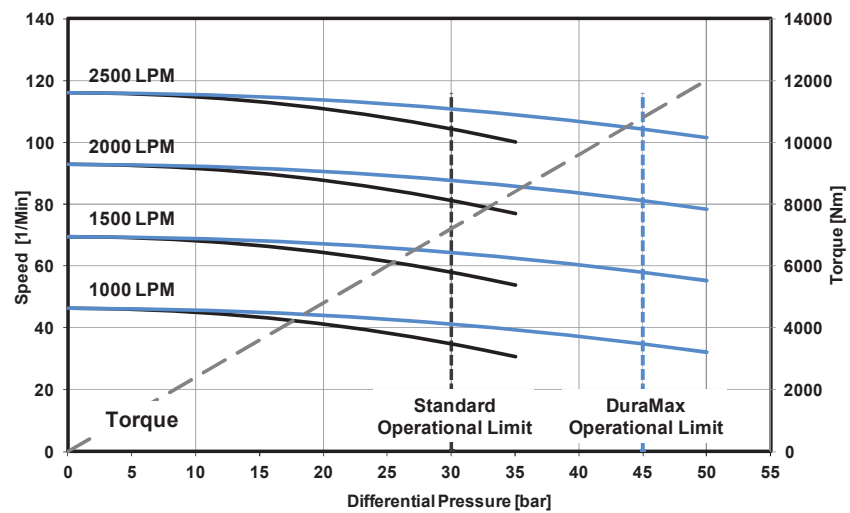
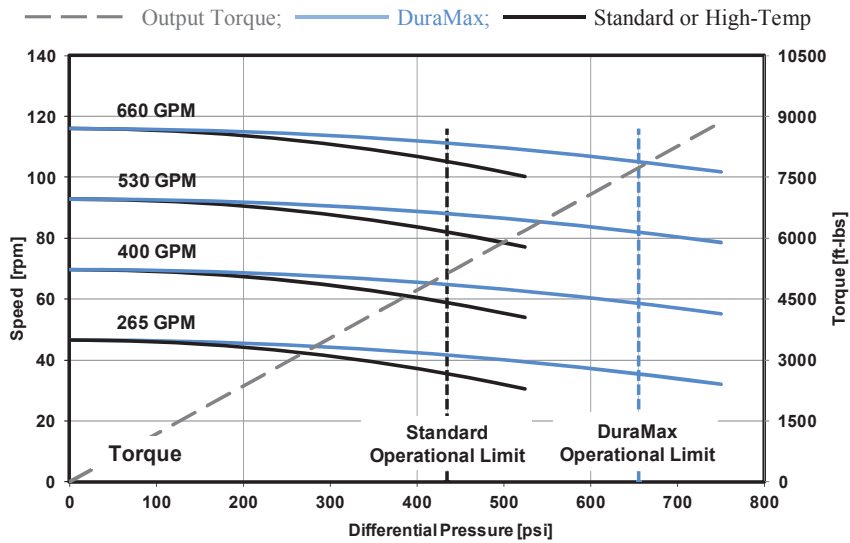
DuraMax elastomer

Operational Limits		
Differential Pressure	655 psi	45 bar
Torque	7,950 ft-lbs	11,000 Nm
Power Output	160 hp	120 kW

Maximum Operational

Differential Pressure	870 psi	60 bar
Torque	10,500 ft-lbs	14,500 Nm

Performance Charts



Actual surface and downhole operational performance may vary.