

8 in. HY-PERFORM XL Motors

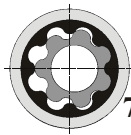
	US Units	SI Units
Length	34.77 ft	10.65 m
Weight Range	4,080-4,480 lbs	1,850-2,030 kg
Bit Size Range (with proper stabilization)	9 7/8 in. – 17 1/2 in.	
Top Connection (Optional)	6 5/8 in. API Reg. Box (6 5/8 in. H90, NC56)	
Bit Connection	6 5/8 in. API Reg. Box	
Max. Slick OD at Wear Pad	8.52 in.	216.5 mm
Max. Slick OD at Wear Ring	8.68 in.	220.5 mm
AKO Angle Range	0° - 2.5°	
Rotor Nozzle	Yes	
Max. FlowRate w/Nozzle	990 gpm	3,750 l/min
Ball Bearings		
WOB and Backreaming Weight	67,5 klbs	300 kN
Rerun Pull and Set-down Weight*	135 klbs	600 kN
Ultimate Pull to Failure*	1,150 klbs	5,200 kN

* While motor is not operating

Build-up Rate Capabilities*

Hole Size		Slick			Partial			Full		
		AKO	BUR	RPM	AKO	BUR	RPM	AKO	BUR	RPM
9 7/8 in.	A1	0.4	0.5	128	0.25	1.5	137	0.25	0.7	134
	A2	1.6	7.2	60	1.7	8.1	60	1.4	5.7	60
	A3	1.8	8.3	30	1.8	8.6	30			
	A4	2.1	10.0	0	2.1	10.0	0			
10 5/8 in.	A1	0.6	0.4	122	0.3	1.8	134	0.3	0.9	135
	A2	1.9	7.6	60	1.7	7.9	60	1.8	7.4	60
	A3	2.1	8.7	30						
	A4	2.5	10.8	0	2.5	11.3	0	1.9	7.8	0
12 1/4 in.	A1	N/A			0.25	2.4	137	0.3	0.9	134
	A2				1.7	9.0	60	1.7	6.9	60
	A3				1.9	9.9	30	2	8.2	30
	A4				2.5	12.6	0	2.5	10.4	0

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



8 in. HY-PERFORM XL/VS

7/8 – 3.0 stages

	US Units	SI Units
Flow Rate	395-900 gpm	1,500-3,400 l/min
Speed	37-85 rpm	
Speed to Flow Ratio	0.09 rev/gal	0.03 rev/l
No Load Pressure Drop	305 psi	21 bar

Standard or High Temperature elastomer

Operational Limits		
Differential Pressure	435 psi	30 bar
Torque	8,500 ft-lbs	11,000 Nm
Power Output	135 hp	100 kW

Maximum Operational

Differential Pressure	695 psi	48 bar
Torque	13,000 ft-lbs	18,000 Nm

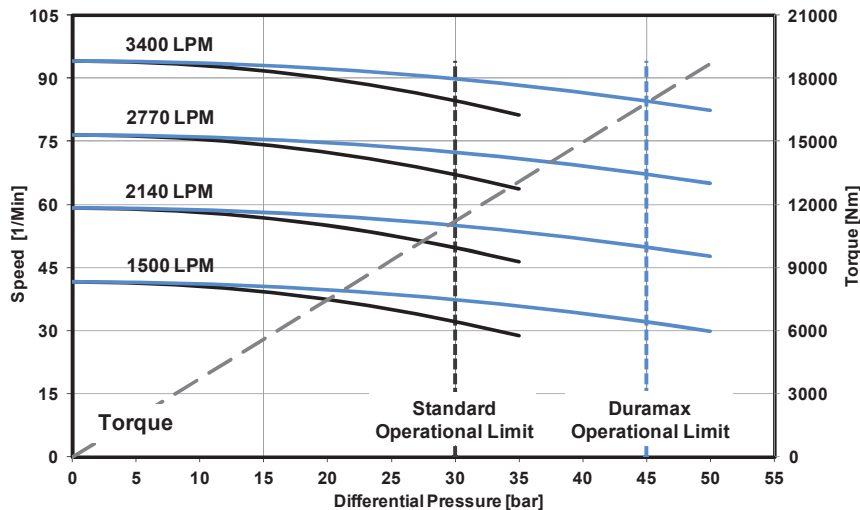
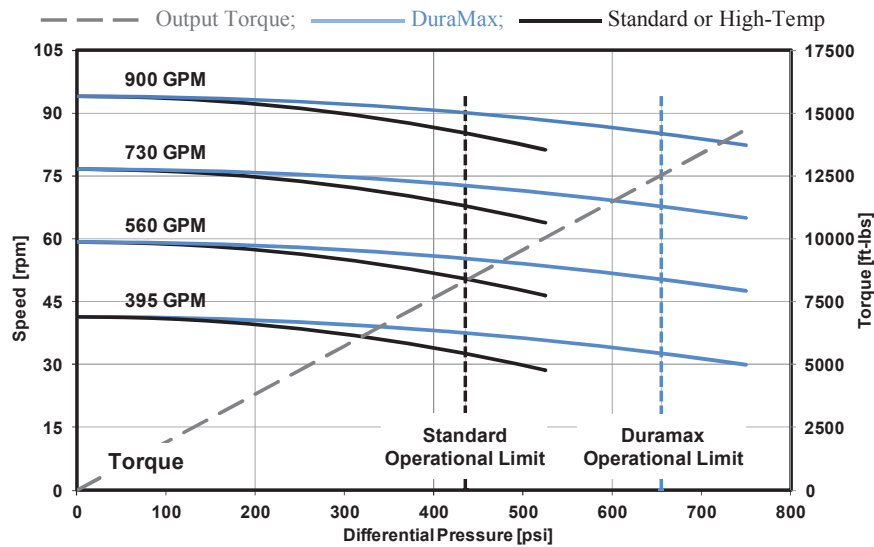
DuraMax elastomer

Operational Limits		
Differential Pressure	655 psi	45 bar
Torque	12,500 ft-lbs	17,000 Nm
Power Output	200 hp	150 kW

Maximum Operational

Differential Pressure	870 psi	60 bar
Torque	16,500 ft-lbs	22,500 Nm

Performance Charts



Actual surface and downhole operational performance may vary.