

4 3/4 in. HY-PERFORM XL Motors

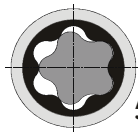
	US Units	SI Units
Length	30.8 ft	9.4 m
Weight	1,410 lbs	640 kg
Bit Size Range	5 5/8 in. – 7 3/8 in.	
Top Connection	NC 38	
Bit Connection	3 1/2 in. API Reg. Box (3 1/2 in. API Reg. Pin)	
Max. Slick OD at Wear Ring	5.24 in.	133 mm
AKO Angle Range	0° - 3.2°	
Rotor Nozzle	No	
Max. Flow Rate w/Nozzle	-	-
Ball Bearings		
WOB and Backreaming Weight	22,5 klbs	100 kN
Rerun Pull and Set down Weight*	45 klbs	200 kN
Ultimate Pull to Failure*	460 klbs	2,050 kN
Diamond Bearings		
WOB and Backreaming Weight	31,5 klbs	140 kN
Rerun Pull and Set-down Weight*	62 klbs	280 kN
Ultimate Pull to Failure*	460 klbs	2,050 kN

* While motor is not operating

Build-up Rate Capabilities (long AKO)*

Hole Size		Slick			Partial			Full		
		AKO	BUR	RPM	AKO	BUR	RPM	AKO	BUR	RPM
6 in.	A1	0.5	1.3	113	0.5	2.8	105	0.5	2.2	94
	A2	1.2	5.7	60	1	5.6	60	0.8	3.5	60
	A3									
	A4									
6 1/8 in.	A1	0.5	1.0	120	0.5	2.9	105	0.5	2.2	94
	A2	1.5	7.2	60	1.0	5.7	60	0.8	3.8	60
	A3									
	A4									
6 3/4 in.	A1	0.8	1.3	119	0.5	2.9	113	0.5	2.1	105
	A2	2.3	10.7	60	1.2	6.7	60	1	4.9	60
	A3									
	A4									

* Short AKO is not available for this motor.

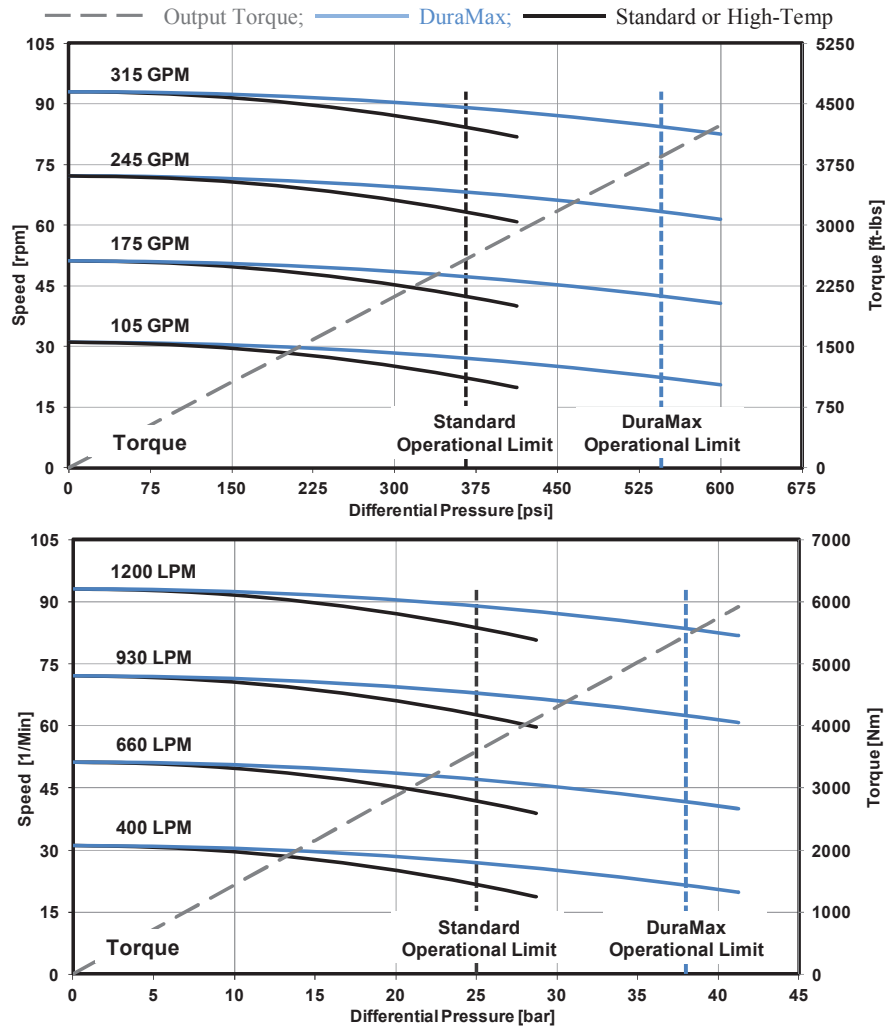


4 3/4 in. HY-PERFORM XL/VS

5/6 – 2.5 stages

	US Units	SI Units
Flow Rate	105-315 gpm	400-1,200 l/min
Speed	30-85 rpm	
Speed to Flow Ratio	0.27 rev/gal	0.07 rev/l
No Load Pressure Drop	305 psi	21 bar
Standard or High Temperature elastomer		
Operational Limits		
Differential Pressure	365 psi	25 bar
Torque	2,650 ft-lbs	3,600 Nm
Power Output	42 hp	32 kW
Maximum Operational		
Differential Pressure	580 psi	40 bar
Torque	4,250 ft-lbs	5,750 Nm
DuraMax elastomer		
Operational Limits		
Differential Pressure	545 psi	38 bar
Torque	3,950 ft-lbs	5,400 Nm
Power Output	63 hp	47 kW
Maximum Operational		
Differential Pressure	725 psi	50 bar
Torque	5,300 ft-lbs	7,150 Nm

Performance Charts



Actual surface and downhole operational performance may vary.