

# 4 3/4 in. HY-PERFORM XL Motors

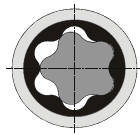
	US Units	SI Units
Length	30.8 ft	9.4 m
Weight	1,410 lbs	640 kg
Bit Size Range	5 5/8 in. – 7 3/8 in.	
Top Connection	NC 38	
Bit Connection	3 1/2 in. API Reg. Box (3 1/2 in. API Reg. Pin)	
Max. Slick OD at Wear Ring	5.24 in.	133 mm
AKO Angle Range	0° - 3.2°	
Rotor Nozzle	No	
Max. Flow Rate w/Nozzle	-	-
<b>Ball Bearings</b>		
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
<b>Diamond Bearings</b>		
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.

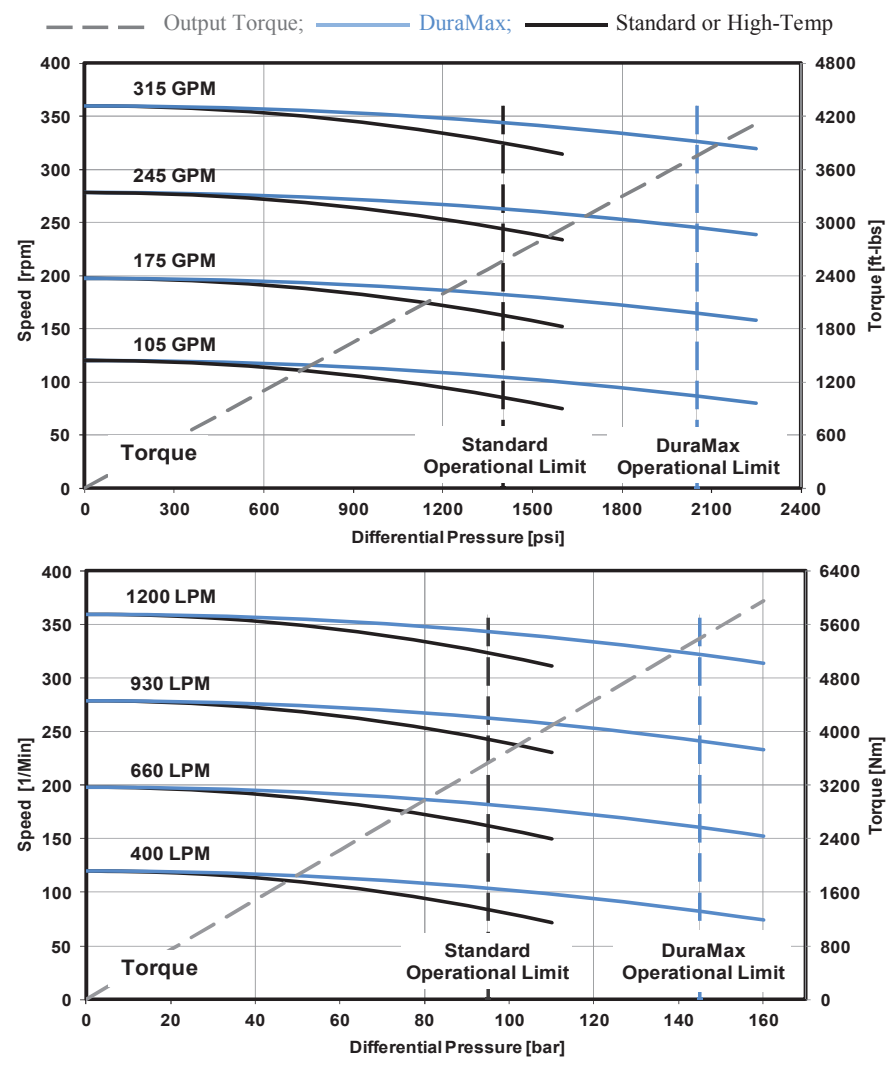


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5/6 – 9.5 stages

	US Units	SI Units
Flow Rate	105-315 gpm	400-1,200 l/min
Speed	110-325 rpm	
Speed to Flow Ratio	1.03 rev/gal	0.27 rev/l
No Load Pressure Drop	305 psi	21 bar
<b>Standard or High Temperature elastomer</b>		
<b>Operational Limits</b>		
Differential Pressure	1,400 psi	95 bar
Torque	2,600 ft-lbs	3,550 Nm
Power Output	160 hp	120 kW
<b>Maximum Operational</b>		
Differential Pressure	2,200 psi	150 bar
Torque	4,150 ft-lbs	5,650 Nm
<b>DuraMax elastomer</b>		
<b>Operational Limits</b>		
Differential Pressure	2,050 psi	145 bar
Torque	3,900 ft-lbs	5,300 Nm
Power Output	240 hp	180 kW
<b>Maximum Operational</b>		
Differential Pressure	2,750 psi	190 bar
Torque	5,200 ft-lbs	7,050 Nm

## Performance Charts



Actual surface and downhole operational performance may vary.