

4 3/4 in. HY-PERFORM X

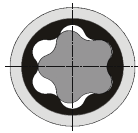
	US Units	SI Units
Length (short AKO)	20.83 ft	6.35 m
(long AKO)	22.05 ft	6.72 m
Weight	800 lbs	360 kg
Bit Size Range	5 5/8 in. – 7 3/8 in.	
Top Connection	NC 38	
Bit Connection	3 1/2 in. API Reg. Box	
Max. Slick OD at Wear Ring	5.24 in.	133 mm
AKO Angle Range	0° - 3.2°	
Rotor Nozzle	No	
Max. Flow Rate 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 (short AKO)*

Hole Size		Slick			Partial			Full		
		AKO	BUR	RPM	AKO	BUR	RPM	AKO	BUR	RPM
6 in.	A1	0.5	2.1	125	0.5	4.3	129	0.5	2.8	113
	A2	1.8	14.1	60	2.1	17.2	60	1.2	7.9	60
	A3	2.1	16.9	30						
	A4									
6 1/8 in.	A1	0.5	1.7	125	0.5	4.5	129	0.5	2.8	120
	A2	1.8	14.0	60	2.1	17.1	60	1.5	10.3	60
	A3	2.3	18.6	30	2.3	18.8	30			
	A4									
6 3/4 in.	A1	0.8	2.4	121	0.5	5.2	129	0.5	2.9	129
	A2	2.5	17.7	60	2.1	17.9	60	2.1	14.7	60
	A3	2.8	20.4	30						
	A4	3.2	24.1	0						

* Refer to DMS Online for BUR charts with long AKO.



4 3/4 in. HY-PERFORM X

5/6 – 5.2 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	175 psi	12 bar

Standard or High Temperature elastomer

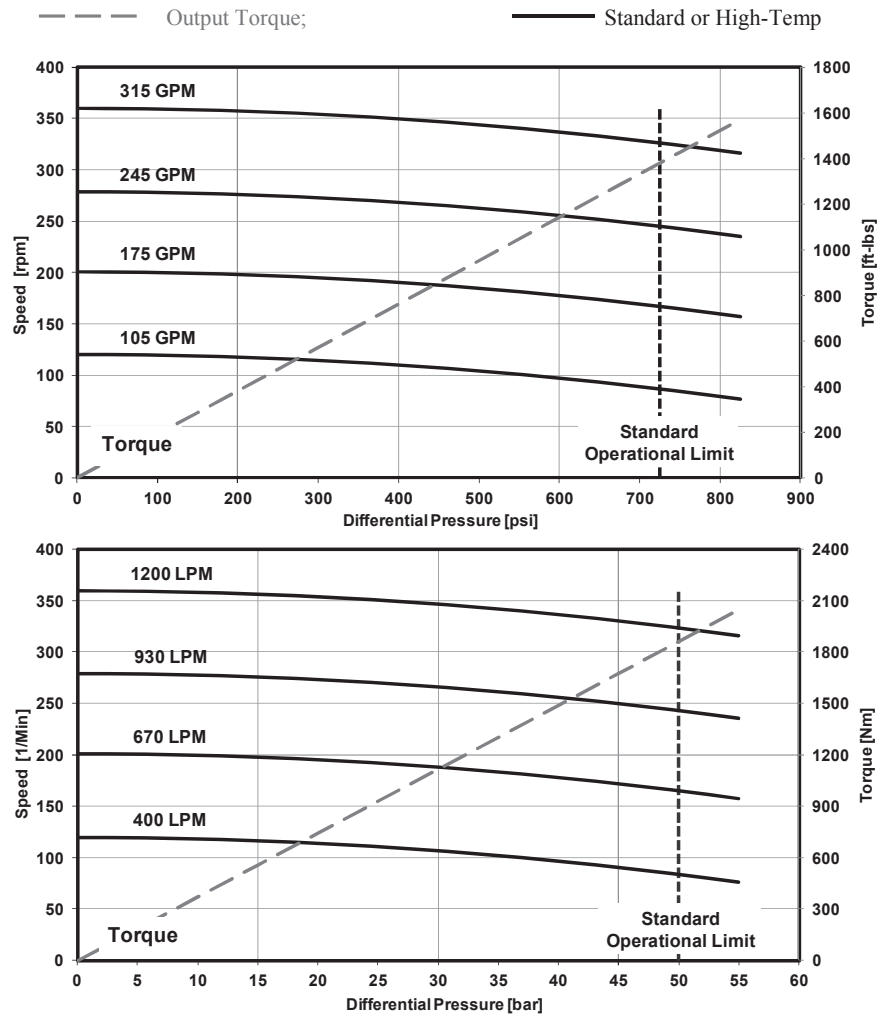
Operational Limits

Differential Pressure	725 psi	50 bar
Torque	1,350 ft-lbs	1,850 Nm
Power Output	85 hp	63 kW

Maximum Operational

Differential Pressure	1,150 psi	80 bar
Torque	2,200 ft-lbs	2,950 Nm

Performance Charts



Actual surface and downhole operational performance may vary.