

8-in. Ultra XL/VS-HP

Equipped with high performance elastomer

Tool Specifications				
Length	34.8 ft	10.65 m		
Weight range	4,080-4,480 lb	1,850-2,030 kg		
Bit size range	9⅓ in. – 12¼ in.			
Top connection (optional)	6%-in. API Reg. box (6%-in. H90)			
Bit connection (optional)	6%-in. API Reg. box			
Max. slick OD at wear pad	8.5 in.	216.5 mm		
(for double pin AKO)				
Max. slick OD at wear ring	8.7 in.	220.5 mm		
(for half-shell AKO)				
Deflection angle range of AKO	0° - 2.5°			

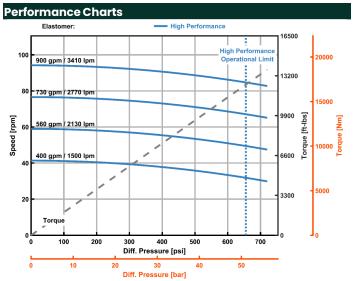
Power Section					
Lobe configuration	7/8				
Flow rate	395-900 gpm	1,500-3,400 lpm			
Speed	37-85 rpm				
Speed to flow ratio	0.09 rev/gal	0.024 rev/I			
Rotor nozzle	Yes				
Max. flow with nozzle	990 gpm	3,750 lpm			
No load pressure drop	305 psi	21 bar			
Temperature					
with standard or high	265°F	130°C			
performance elastomer					
with high temperature	320°F	160°C			
elastomer					

Performance Data						
Standard or high temperature elastomer						
Operational limits						
Differential pressure	435 psi	30 bar				
Torque	8,400 ft-lb	11,000 Nm				
Power output	135 hp	100 kW				
Maximum operational						
Differential pressure	695 psi	48 bar				
Torque	13,000 ft-lb	18,000 Nm				
High performance elastomer						
Operational limits						
Differential pressure	655 psi	45 bar				
Torque	12,500 ft-lb	17,000 Nm				
Power output	200 hp	150 kW				
Maximum operational						
Differential pressure	870 psi	60 bar				
Torque	16,500 ft-lb	22,500 Nm				



Bearing Section Operating Specifications and Limits						
67.5 klb	300 kN					
135 klb	600 kN					
1,150 klb	5,200 kN					
	67.5 klb					

^{*} While mtoor is not operating



^{*} Motor Performance specifications and related charts are derived from dynamometer testing performed with water at 68°F (20°C) as the working fluid. Motor power sections were assembled for maximum performance and longevity in the testing environment on surface and are presented for comparative analysis and operational calculations. Motor performance specifications subject to change without notice. Actual downhole operational performance may vary due to temperature, fluid type and rotor/stator fit adjustments. If the motors, that have been assembled to compensate for downhole temperature effects, are surface tested, they may show reduced performance on surface and at low temperatures.

Build Up Rate Chart										
Hole		Slick		Partial		Full				
Size		AKO	BUR	RPM	AKO	BUR	RPM	AKO	BUR	RPM
	A1	0.4	0.5	128	0.25	1.5	137	0.25	0.7	134
97₅ in.	A2	1.6	7.2	60	1.7	8.1	60	1.4	5.7	60
ကို	А3	1.8	8.3	30	1.8	8.6	30			
	A4	2.1	10.0	0	2.1	10.0	0			
10% 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
	Al				0.25	2.4	137	0.3	0.9	134
12¼ in.	A2	N/A		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

Al: Minimum building AKO setting

A2: Recommended maximum rotable AKO setting

A3: Absolute maximum rotable AKO setting

A4: Absolute maximum oriented setting

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