

8 in. HY-PERFORM XL Motors

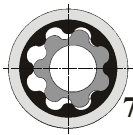
| | US Units | SI Units |
|--|---|----------------|
| Length | 34.77 ft | 10.65 m |
| Weight Range | 4,080-4,480 lbs | 1,850-2,030 kg |
| Bit Size Range (with proper stabilization) | 9 7/8 in. – 17 1/2 in. | |
| Top Connection (Optional) | 6 5/8 in. API Reg. Box (6 5/8 in. H90, NC56) | |
| Bit Connection | 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/LS

7/8 – 3.0 stages

| | US Units | SI Units |
|-----------------------|--------------|-------------------|
| Flow Rate | 395-900 gpm | 1,500-3,400 l/min |
| Speed | 60-135 rpm | |
| Speed to Flow Ratio | 0.15 rev/gal | 0.04 rev/l |
| No Load Pressure Drop | 305 psi | 21 bar |

Standard or High Temperature elastomer

| Operational Limits | | |
|-----------------------|--------------|-----------|
| Differential Pressure | 725 psi | 50 bar |
| Torque | 8,550 ft-lbs | 11,500 Nm |
| Power Output | 220 hp | 165 kW |

Maximum Operational

| | | |
|-----------------------|---------------|-----------|
| Differential Pressure | 1,150 psi | 80 bar |
| Torque | 13,500 ft-lbs | 18,500 Nm |

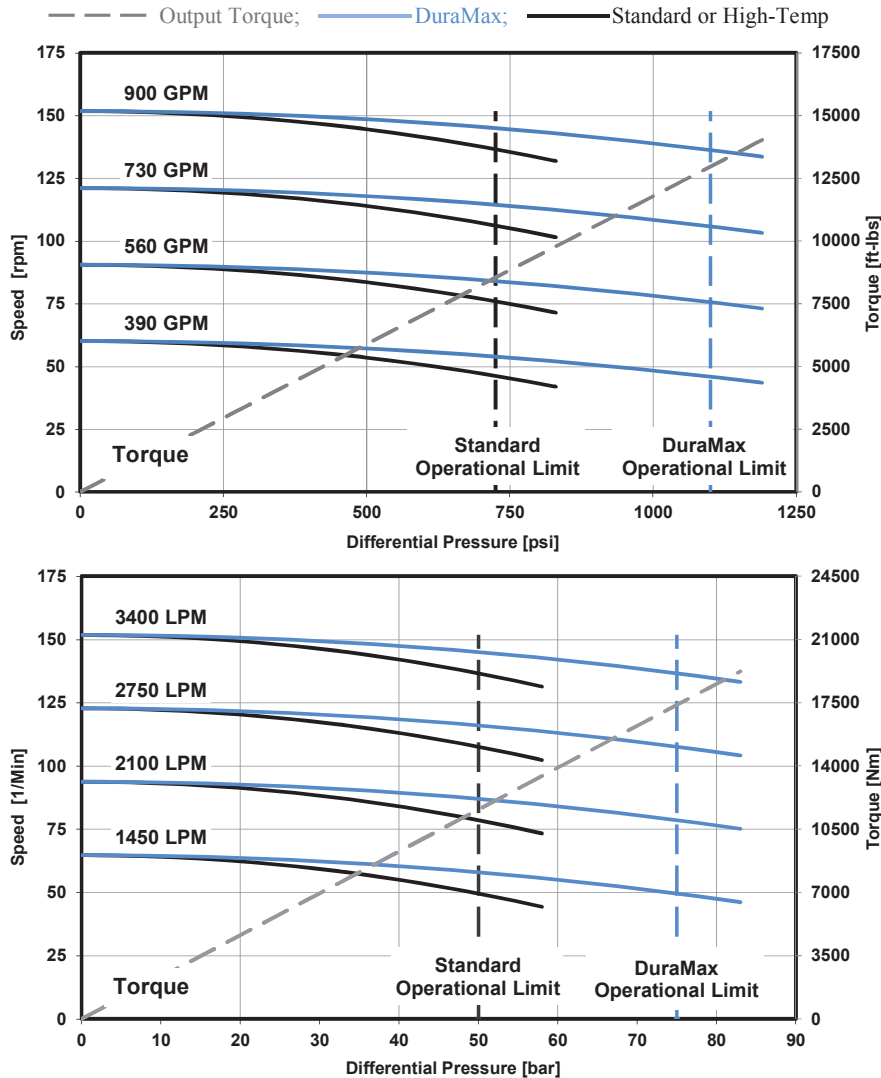
DuraMax elastomer

| Operational Limits | | |
|-----------------------|---------------|-----------|
| Differential Pressure | 1,100 psi | 75 bar |
| Torque | 13,000 ft-lbs | 17,500 Nm |
| Power Output | 335 hp | 250 kW |

Maximum Operational

| | | |
|-----------------------|---------------|-----------|
| Differential Pressure | 1,450 psi | 100 bar |
| Torque | 17,000 ft-lbs | 23,000 Nm |

Performance Charts



Actual surface and downhole operational performance may vary.