



MOTOR SPECIFICATIONS



TURBOSCOUT®

CAMSCOUT®

TDICAM™

ROTARYSTEERABLE**ASSIST**™



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What Counts Most When It Comes to Drilling Motors?

Reliability? Strength? Speed? Data?

All of the above of course, however...

The Only Thing That Really Counts is How They Perform for You.

An operator in West Texas has been utilizing **Turbo Drill Motors** on several rigs for more than a year.

Total Runs: 73 - Motor Failures: 0

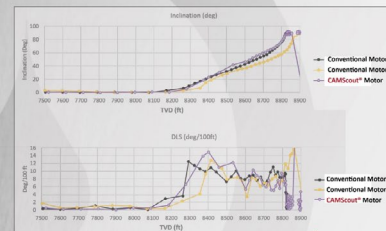
That's What Counts!

www.scoutdownhole.com



1.25" CAMScout® Drills One-Run Vertical and Curve for a West Texas Operator in Martin County

- West Texas operator drills one of their fastest one-run vertical and curve sections utilizing 1.25" CAMScout Compound Angle Motor in 7 7/8" hole size
- CAM Scout consistently yielded an average DLS of 13.5/100 ft throughout the curve compared to conventional 1.83" motors where DLS would be inconsistent between 6-14 DLS



CAMSCOUT®



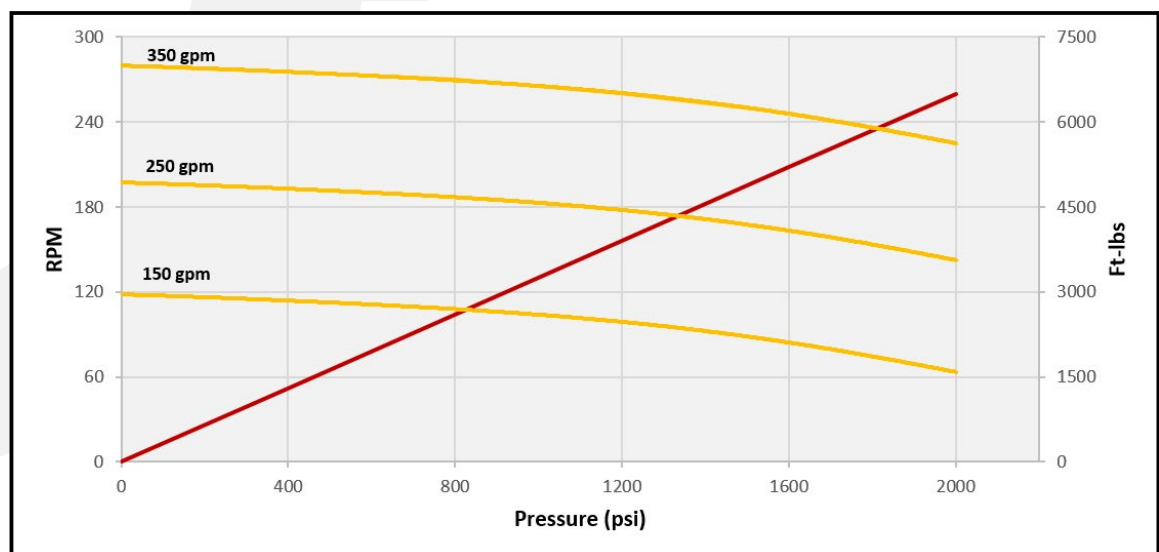
5" Mud Lube (B) 6/7 8.0

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	388" (9.85 m)
Weight	2,000 lbs (907 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	150-350 gpm (568- 1,325 l/min)
Revolutions	0.79 rev/gal 0.209 rev/l
Max Differential Pressure	1880 psi (12,962 kPa)
Max Torque	6,110 ft-lbs (8,284 Nm)
Stall Differential Pressure	2,820 psi (19,443 kPa)
Stall Torque	9,165 ft-lbs (12,426 Nm)
Torque Slope	3.3 ft-lbs/psi (0.649 Nm/kPa)
Off-Bottom Pressure	183 psi (1,262 kPa)

Specifications	Tool Size 5" (127 mm)
Hole Size	5-7/8" - 7-7/8" (127 mm - 178 mm)
Bit Box	3-1/2" REG
Mandrel Bore	1 (25 mm)
Maximum W.O.B. - Dynamic	36,000 lbs (16,014 daN)
Maximum W.O.B. - Static	101,000 lbs (44,927 daN)
Maximum Bit Overpull	125,000 lbs (55,602 daN)
Absolute Overpull	535,000 lbs (237,980 daN)
Bearing Section Torque Capacity	14,000 ft-lbs (18,981 Nm)
Bit to Bend Fixed	48" (1,219 mm)
Bit to Bend Adjustable	62" (1,574 mm)
U-Joint Torque Capacity	13,600 ft-lbs (18,439 Nm)



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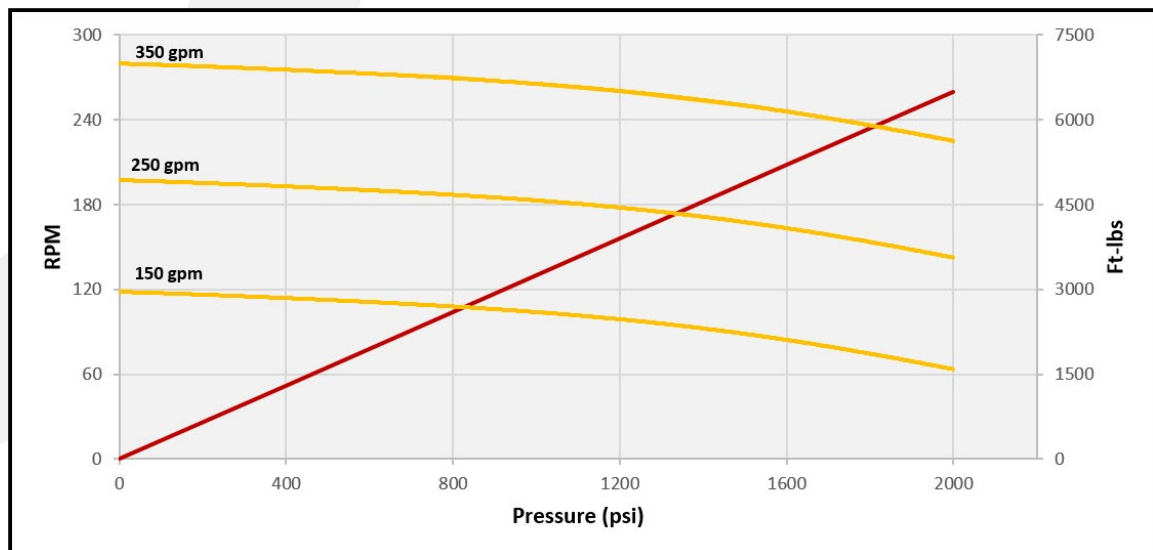
5" Mud Lube (D) 6/7 8.0

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	382" (9.70 m)
Weight	2,000 lbs (907 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	150-350 gpm (568- 1,325 l/min)
Revolutions	0.79 rev/gal 0.209 rev/l
Max Differential Pressure	1880 psi (12,962 kPa)
Max Torque	6,110 ft-blbs (8,284 Nm)
Stall Differential Pressure	2,820 psi (19,443 kPa)
Stall Torque	9,165 ft-lbs (12,426 Nm)
Torque Slope	3.3 ft-lbs/psi (0.649 Nm/kPa)
Off-Bottom Pressure	183 psi (1,262 kPa)

Specifications	Tool Size 5" (127 mm)
Hole Size	5-7/8" - 7-7/8" (127 mm - 179 mm)
Bit Box	3-1/2" REG
Mandrel Bore	1-1/4" (25 mm)
Maximum W.O.B. - Dynamic	43,000 lbs (19,127 daN)
Maximum W.O.B. - Static	106,000 lbs (47,151 daN)
Maximum Bit Overpull	158,000 lbs (70,282 daN)
Absolute Overpull	386,000 lbs (171,701 daN)
Bearing Section Torque Capacity	19,000 ft-lbs (25,760 Nm)
Bit to Bend Fixed	42" (1,066 mm)
Bit to Bend Adjustable	55-15/16" (1,397 mm)
U-Joint Torque Capacity	13,600 ft-lbs (18,439 Nm)



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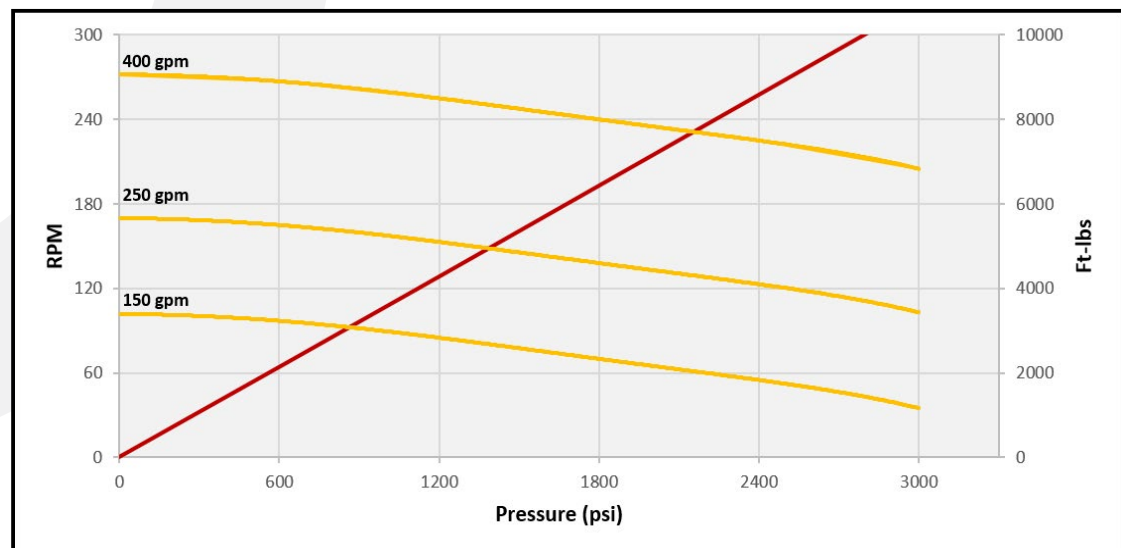
5" Mud Lube (B) 6/7 8.8

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	418" (10.62 m)
Weight	2,300 lbs (1043 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	150-400 gpm (568- 1,514 l/min)
Revolutions	0.68 rev/gal 0.180 rev/l
Max Differential Pressure	2240 psi (15,444 kPa)
Max Torque	8,014 ft-lbs (10,865 Nm)
Stall Differential Pressure	3,360 psi (23,166 kPa)
Stall Torque	12,021 ft-lbs (16,298 Nm)
Torque Slope	3.6 ft-lbs/psi (0.708 Nm/kPa)
Off-Bottom Pressure	131 psi (903 kPa)

Specifications	Tool Size 5" (127 mm)
Hole Size	5-7/8" - 7-7/8" (127 mm - 178 mm)
Bit Box	3-1/2" REG
Mandrel Bore	1 (25 mm)
Maximum W.O.B. - Dynamic	36,000 lbs (16,014 daN)
Maximum W.O.B. - Static	101,000 lbs (44,927 daN)
Maximum Bit Overpull	125,000 lbs (55,602 daN)
Absolute Overpull	535,000 lbs (237,980 daN)
Bearing Section Torque Capacity	14,000 ft-lbs (18,981 Nm)
Bit to Bend Fixed	48" (1,219 mm)
Bit to Bend Adjustable	62" (1,574 mm)
U-Joint Torque Capacity	13,600 ft-lbs (18,439 Nm)



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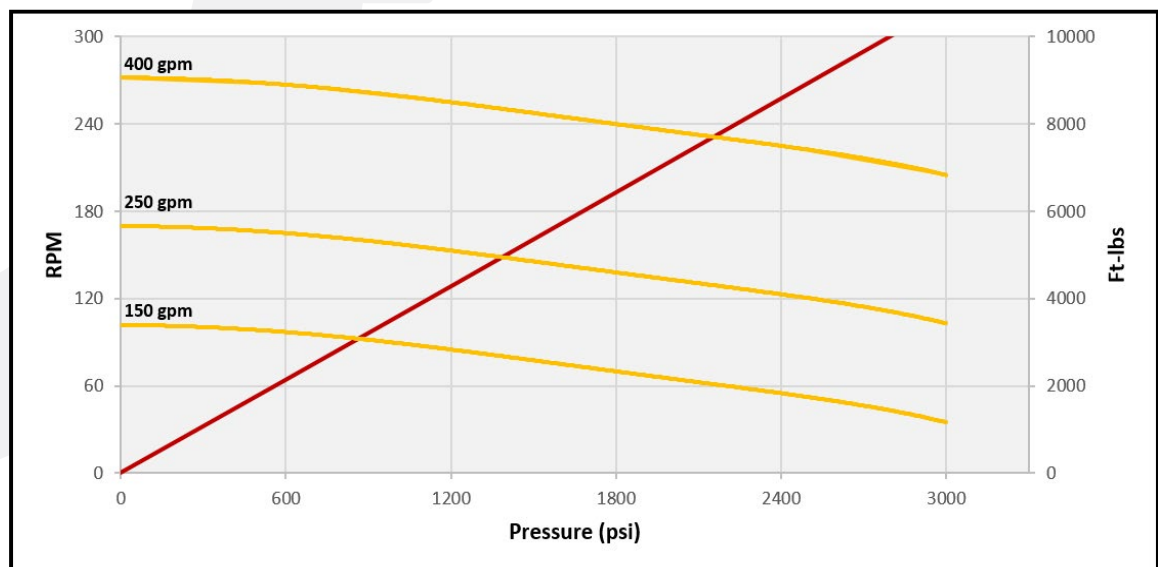
5" Mud Lube (D) 6/7 8.8

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	412" (10.46m)
Weight	2,300 lbs (1043 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	150-400 gpm (568- 1,514 l/min)
Revolutions	0.68 rev/gal 0.180 rev/l
Max Differential Pressure	2240 psi (15,444 kPa)
Max Torque	8,014 ft-blbs (10,865 Nm)
Stall Differential Pressure	3,360 psi (23,166 kPa)
Stall Torque	12,021 ft-lbs (16,298 Nm)
Torque Slope	3.6 ft-lbs/psi (0.708 Nm/kPa)
Off-Bottom Pressure	131 psi (903 kPa)

Specifications	Tool Size 5" (127 mm)
Hole Size	5-7/8" - 7-7/8" (127 mm - 179 mm)
Bit Box	3-1/2" REG
Mandrel Bore	1-1/4 (25 mm)
Maximum W.O.B. - Dynamic	43,000 lbs (19,127 daN)
Maximum W.O.B. - Static	106,000 lbs (47,151 daN)
Maximum Bit Overpull	158,000 lbs (70,282 daN)
Absolute Overpull	386,000 lbs (171,701 daN)
Bearing Section Torque Capacity	19,000 ft-lbs (25,760 Nm)
Bit to Bend Fixed	42" (1,066 mm)
Bit to Bend Adjustable	55-15/16" 1,397 mm
U-Joint Torque Capacity	13,600 ft-lbs (18,439 Nm)



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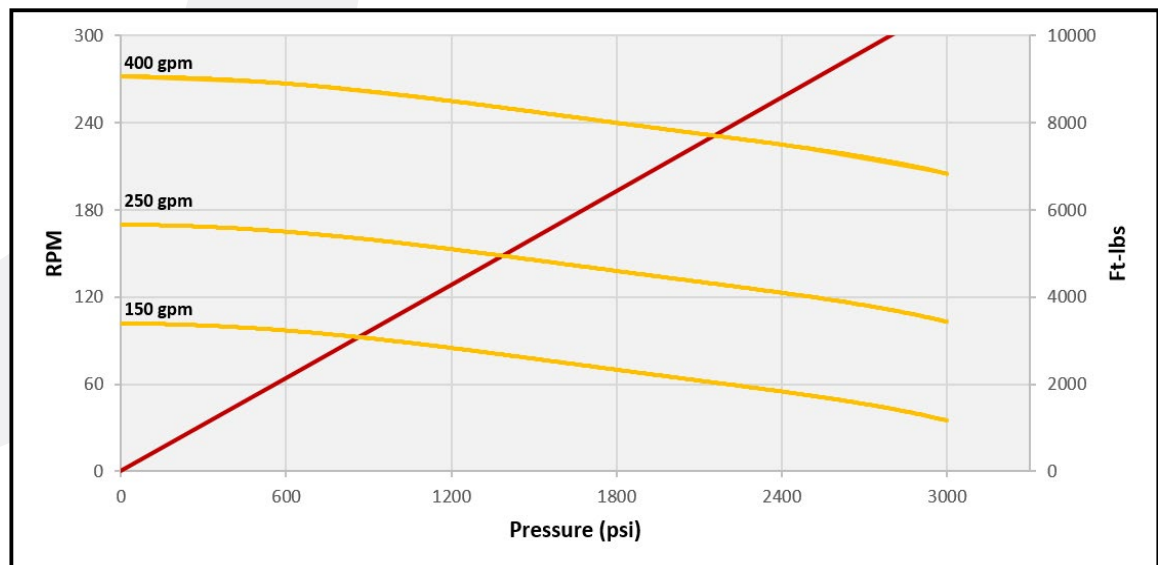


5" Mud Lube (B) 6/7 8.8 TDI CAM MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	439" (11.02 m)
Weight	2,300 lbs (1043 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	150-400 gpm (568- 1,514 l/min)
Revolutions	0.68 rev/gal 0.180 rev/l
Max Differential Pressure	2240 psi (15,444 kPa)
Max Torque	8,014 ft-blbs (10,865 Nm)
Stall Differential Pressure	3,360 psi (23,166 kPa)
Stall Torque	12,021 ft-lbs (16,298 Nm)
Torque Slope	3.6 ft-lbs/psi (0.708 Nm/kPa)
Off-Bottom Pressure	131 psi (903 kPa)

Specifications	Tool Size 5" (127 mm)
Hole Size	5-7/8" - 7-7/8" (127 mm - 178 mm)
Bit Box	3-1/2" REG
Mandrel Bore	1 (25 mm)
Maximum W.O.B. - Dynamic	36,000 lbs (16,014 daN)
Maximum W.O.B. - Static	101,000 lbs (44,927 daN)
Maximum Bit Overpull	125,000 lbs (55,602 daN)
Absolute Overpull	535,000 lbs (237,980 daN)
Bearing Section Torque Capacity	14,000 ft-lbs (18,981 Nm)
Bit to Bend Fixed	48" (1,219 mm)
Bit to Bend Adjustable	62" (1,574 mm)
U-Joint Torque Capacity	13,600 ft-lbs (18,439 Nm)



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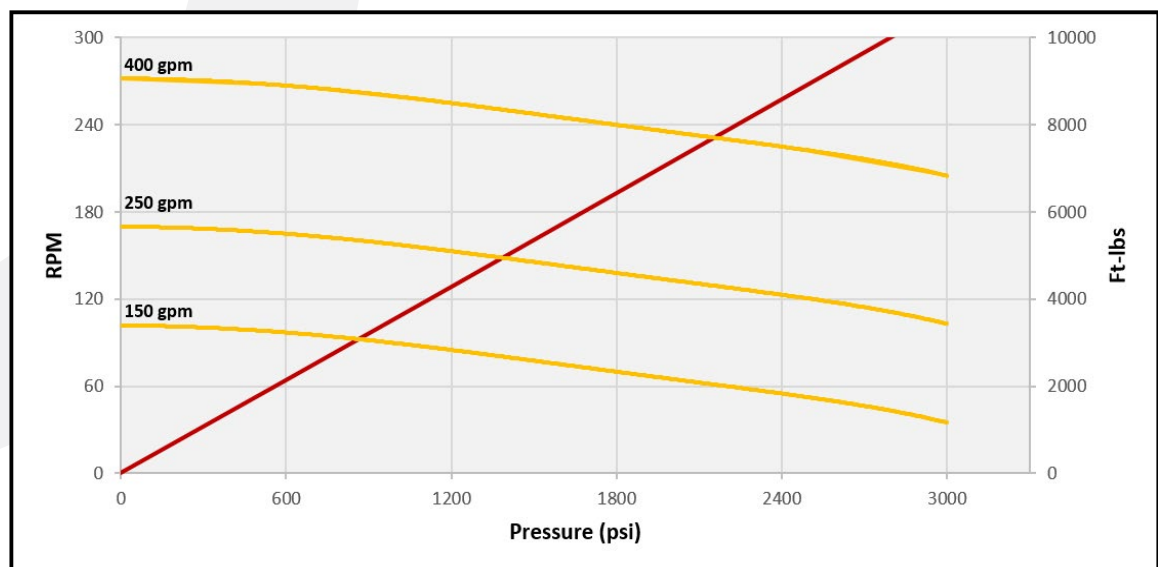


5" Mud Lube (D) 6/7 8.8 TDI CAM MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	433" (11.0 m)
Weight	2,300 lbs (1043 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	150-400 gpm (568- 1,514 l/min)
Revolutions	0.68 rev/gal 0.180 rev/l
Max Differential Pressure	2240 psi (15,444 kPa)
Max Torque	8,014 ft-blbs (10,865 Nm)
Stall Differential Pressure	3,360 psi (23,166 kPa)
Stall Torque	12,021 ft-lbs (16,298 Nm)
Torque Slope	3.6 ft-lbs/psi (0.708 Nm/kPa)
Off-Bottom Pressure	131 psi (903 kPa)

Specifications	Tool Size 5" (127 mm)
Hole Size	5-7/8" - 7-7/8" (127 mm - 179 mm)
Bit Box	3-1/2" REG
Mandrel Bore	1-1/4 (25 mm)
Maximum W.O.B. - Dynamic	43,000 lbs (19,127 daN)
Maximum W.O.B. - Static	106,000 lbs (47,151 daN)
Maximum Bit Overpull	158,000 lbs (70,282 daN)
Absolute Overpull	386,000 lbs (171,701 daN)
Bearing Section Torque Capacity	19,000 ft-lbs (25,760 Nm)
Bit to Bend Fixed	42" (1,066 mm)
Bit to Bend Adjustable	55-15/16" 1,397 mm
U-Joint Torque Capacity	13,600 ft-lbs (18,439 Nm)



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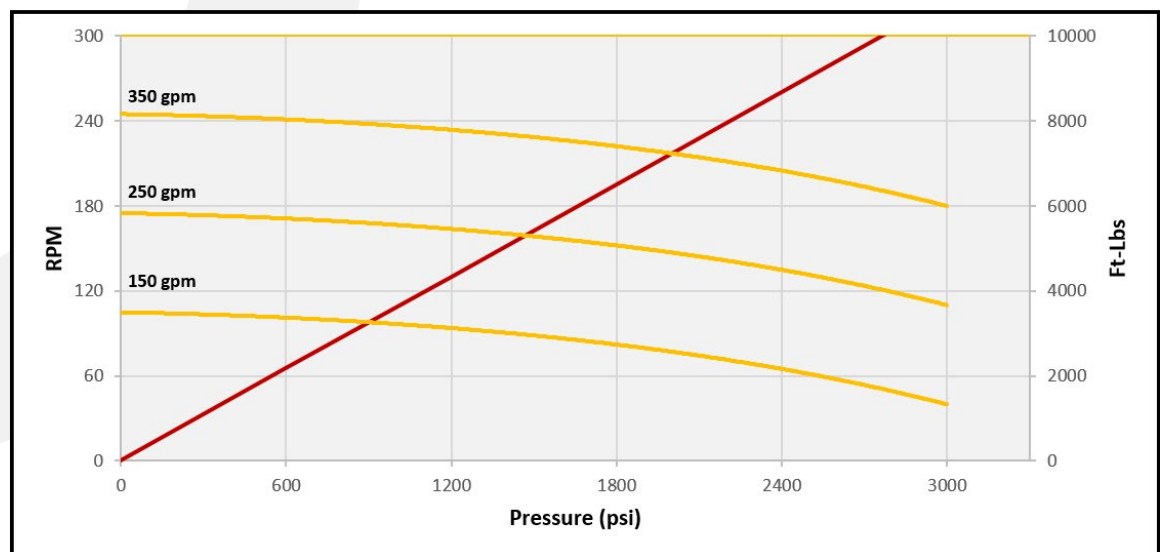
5" Mud Lube (B) 7/8 8.4

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	386" (9.80 m)
Weight	2,200 lbs (998 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	150-350 gpm (568- 1,324 l/min)
Revolutions	0.7 rev/gal 0.185 rev/l
Max Differential Pressure	1850 psi (12,755 kPa)
Max Torque	6,700 ft-lbs (9,083 Nm)
Stall Differential Pressure	2,775 psi (19,132 kPa)
Stall Torque	10,050 ft-lbs (13,625 Nm)
Torque Slope	3.6 ft-lbs/psi (0.708 Nm/kPa)
Off-Bottom Pressure	172 psi (1,186 kPa)

Specifications	Tool Size 5" (127 mm)
Hole Size	5-7/8" - 7-7/8" (127 mm - 178 mm)
Bit Box	3-1/2" REG
Mandrel Bore	1 (25 mm)
Maximum W.O.B. - Dynamic	36,000 lbs (16,014 daN)
Maximum W.O.B. - Static	101,000 lbs (44,927 daN)
Maximum Bit Overpull	125,000 lbs (55,602 daN)
Absolute Overpull	535,000 lbs (237,980 daN)
Bearing Section Torque Capacity	14,000 ft-lbs (18,981 Nm)
Bit to Bend Fixed	48" (1,219 mm)
Bit to Bend Adjustable	62" (1,574 mm)
U-Joint Torque Capacity	13,600 ft-lbs (18,439 Nm)



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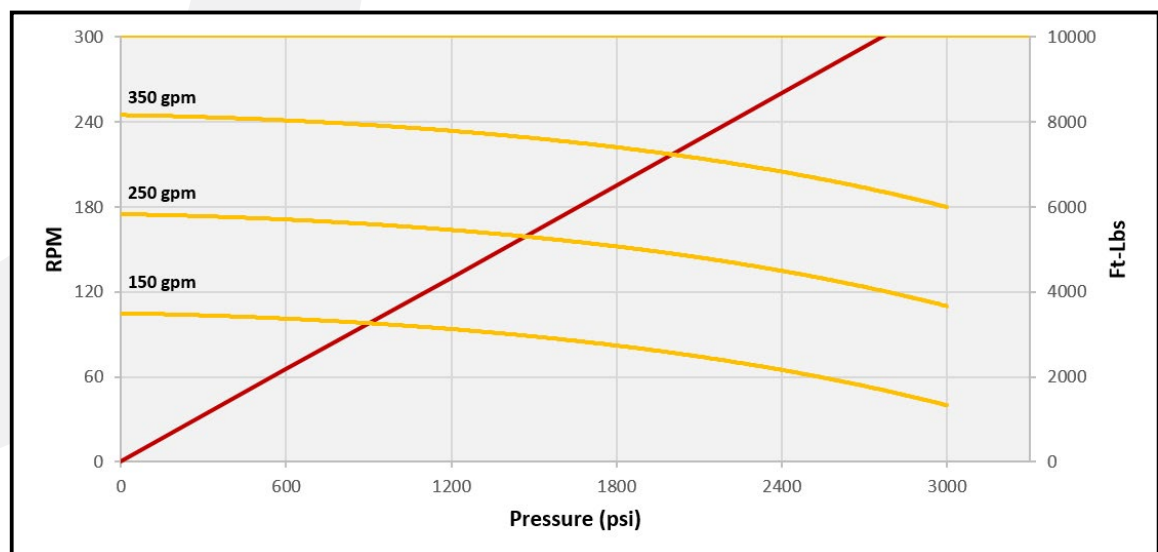
5" Mud Lube (D) 7/8 8.4

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	386" (9.80 m)
Weight	2,200 lbs (998 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	150-350 gpm (568- 1,324 l/min)
Revolutions	0.7 rev/gal 0.185 rev/l
Max Differential Pressure	1850 psi (12,755 kPa)
Max Torque	6,700 ft-lbs (9,083 Nm)
Stall Differential Pressure	2,775 psi (19,132 kPa)
Stall Torque	10,050 ft-lbs (13,625 Nm)
Torque Slope	3.6 ft-lbs/psi (0.708 Nm/kPa)
Off-Bottom Pressure	172 psi (1,086 kPa)

Specifications	Tool Size 5" (127 mm)
Hole Size	5-7/8" - 7-7/8" (127 mm - 179 mm)
Bit Box	3-1/2" REG
Mandrel Bore	1-1/4" (25 mm)
Maximum W.O.B. - Dynamic	43,000 lbs (19,127 daN)
Maximum W.O.B. - Static	106,000 lbs (47,151 daN)
Maximum Bit Overpull	158,000 lbs (70,282 daN)
Absolute Overpull	386,000 lbs (171,701 daN)
Bearing Section Torque Capacity	19,000 ft-lbs (25,760 Nm)
Bit to Bend Fixed	42" (1,066 mm)
Bit to Bend Adjustable	55-15/16" (1,397 mm)
U-Joint Torque Capacity	13,600 ft-lbs (18,439 Nm)



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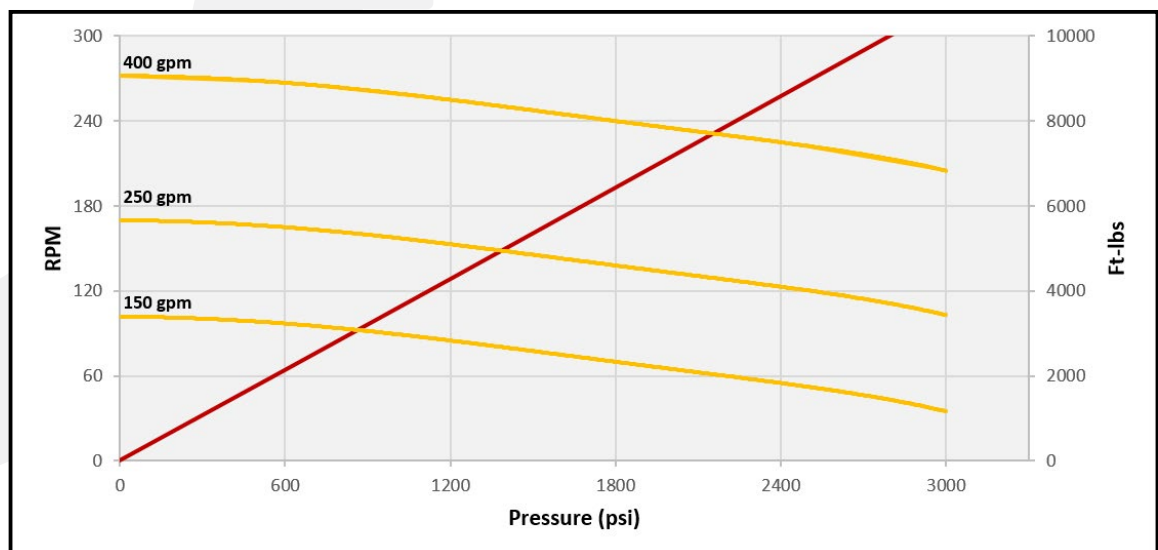
5-3/4" Mud Lube (B) 6/7 8.8

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	411" (10.43 m)
Weight	2,300 lbs (1043 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	150-400 gpm (568- 1,514 l/min)
Revolutions	0.68 rev/gal 0.180 rev/l
Max Differential Pressure	2240 psi (15,444 kPa)
Max Torque	8,014 ft-blbs (10,865 Nm)
Stall Differential Pressure	3,360 psi (23,166 kPa)
Stall Torque	12,021 ft-lbs (16,298 Nm)
Torque Slope	3.6 ft-lbs/psi (0.708 Nm/kPa)
Off-Bottom Pressure	131 psi (903 kPa)

Specifications	Tool Size 5-3/4" (127 mm)
Hole Size	6-3/4" - 7-7/8" (152 mm - 179 mm)
Bit Box	3-1/2" REG
Mandrel Bore	1-1/4" (25 mm)
Maximum W.O.B. - Dynamic	41,500 lbs (18,460 daN)
Maximum W.O.B. - Static	116,000 lbs (51,599 daN)
Maximum Bit Overpull	132,000 lbs (58,717 daN)
Absolute Overpull	615,000 lbs (273,565 daN)
Bearing Section Torque Capacity	19,000 ft-lbs (25,760 Nm)
Bit to Bend Fixed	48" (1,219 mm)
Bit to Bend Adjustable	N/A
U-Joint Torque Capacity	27,000 ft-lbs (36,607 Nm)



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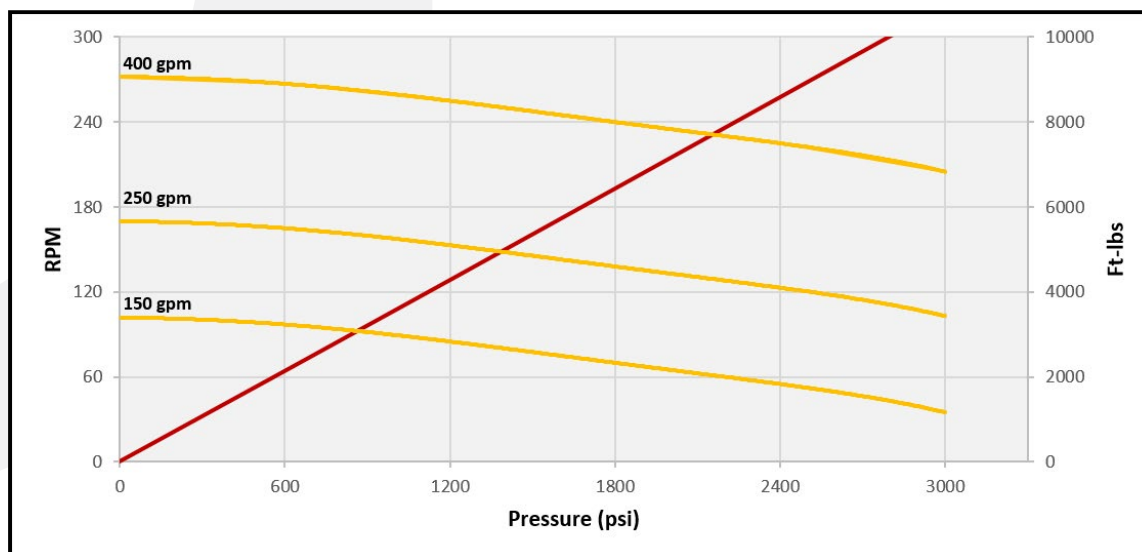


5-3/4" Mud Lube (B) 6/7 8.8 TDI CAM MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	427" (10.84 m)
Weight	2,300 lbs (1043 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	150-400 gpm (568- 1,514 l/min)
Revolutions	0.68 rev/gal 0.180 rev/l
Max Differential Pressure	2240 psi (15,444 kPa)
Max Torque	8,014 ft-blbs (10,865 Nm)
Stall Differential Pressure	3,360 psi (23,166 kPa)
Stall Torque	12,021 ft-lbs (16,298 Nm)
Torque Slope	3.6 ft-lbs/psi (0.708 Nm/kPa)
Off-Bottom Pressure	131 psi (903 kPa)

Specifications	Tool Size 5-3/4" (127 mm)
Hole Size	6-3/4" - 7-7/8" (152 mm - 179 mm)
Bit Box	3-1/2" REG
Mandrel Bore	1-1/4" (25 mm)
Maximum W.O.B. - Dynamic	41,500 lbs (18,460 daN)
Maximum W.O.B. - Static	116,000 lbs (51,599 daN)
Maximum Bit Overpull	132,000 lbs (58,717 daN)
Absolute Overpull	615,000 lbs (273,565 daN)
Bearing Section Torque Capacity	19,000 ft-lbs (25,760 Nm)
Bit to Bend Fixed	48" (1,219 mm)
Bit to Bend Adjustable	N/A
U-Joint Torque Capacity	27,000 ft-lbs (36,607 Nm)



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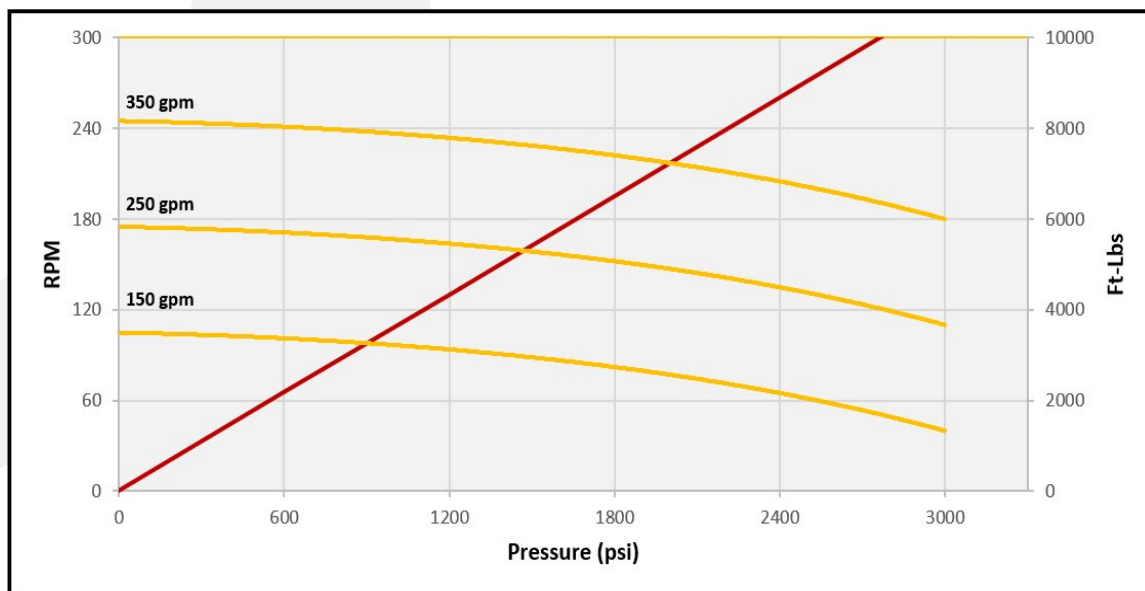
5-3/4" Mud Lube (B) 7/8 8.2

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	386" (9.80 m)
Weight	2,200 lbs (998 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	150-350 gpm (568- 1,324 l/min)
Revolutions	0.7 rev/gal 0.185 rev/l
Max Differential Pressure	1850 psi (12,755 kPa)
Max Torque	6,700 ft-lbs (9,083 Nm)
Stall Differential Pressure	2,775 psi (19,132 kPa)
Stall Torque	10,050 ft-lbs (13,625 Nm)
Torque Slope	3.6 ft-lbs/psi (0.708 Nm/kPa)
Off-Bottom Pressure	171 psi (1,179 kPa)

Specifications	Tool Size 5-3/4" (178 mm)
Hole Size	6-3/4" - 7-7/8" (152 mm - 178 mm)
Bit Box	3-1/2" REG
Mandrel Bore	1-1/4" (25.4 mm)
Maximum W.O.B. - Dynamic	41,500 lbs (18,460 daN)
Maximum W.O.B. - Static	116,000 lbs (51,599 daN)
Maximum Bit Overpull	132,000 lbs (58,717 daN)
Absolute Overpull	615,000 lbs (273,565 daN)
Bearing Section Torque Capacity	19,000 ft-lbs (25,760 Nm)
Bit to Bend Fixed	48" (1,219 mm)
Bit to Bend Adjustable	N/A
U-Joint Torque Capacity	27,000 ft-lbs (36,607 Nm)



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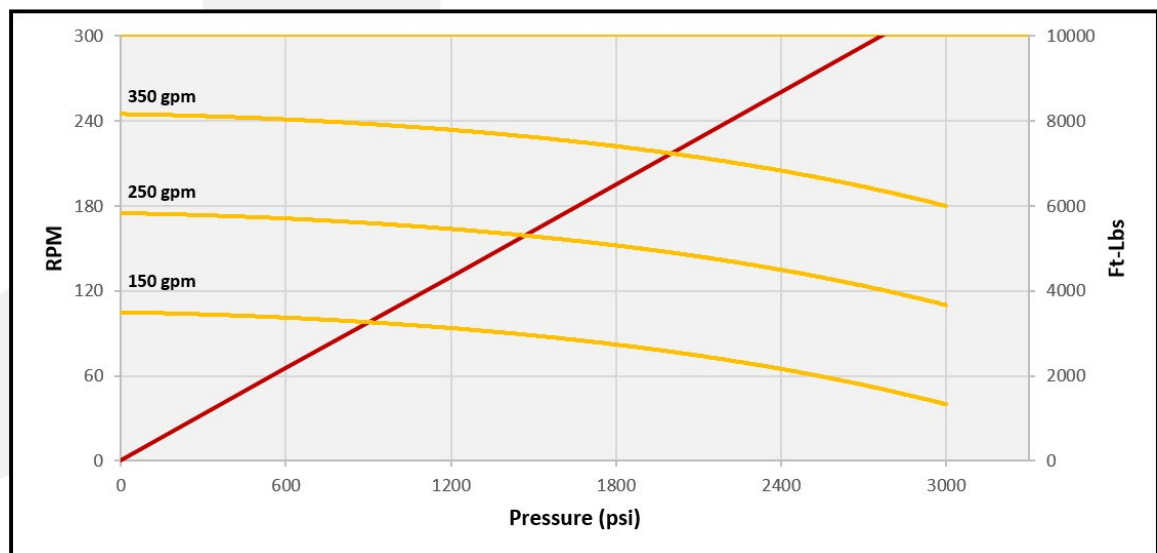
5-3/4" Mud Lube (B) 7/8 8.4

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	386" (9.80 m)
Weight	2,200 lbs (998 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	150-350 gpm (568- 1,324 l/min)
Revolutions	0.7 rev/gal 0.185 rev/l
Max Differential Pressure	1850 psi (12,755 kPa)
Max Torque	6,700 ft-lbs (9,083 Nm)
Stall Differential Pressure	2,775 psi (19,132 kPa)
Stall Torque	10,050 ft-lbs (13,625 Nm)
Torque Slope	3.6 ft-lbs/psi (0.708 Nm/kPa)
Off-Bottom Pressure	150 psi (1,048 kPa)

Specifications	Tool Size 5-3/4" (178 mm)
Hole Size	6-3/4" - 7-7/8" (152 mm - 178 mm)
Bit Box	3-1/2" REG
Mandrel Bore	1-1/4" (25.4 mm)
Maximum W.O.B. - Dynamic	41,500 lbs (18,460 daN)
Maximum W.O.B. - Static	116,000 lbs (51,599 daN)
Maximum Bit Overpull	132,000 lbs (58,717 daN)
Absolute Overpull	615,000 lbs (273,565 daN)
Bearing Section Torque Capacity	19,000 ft-lbs (25,760 Nm)
Bit to Bend Fixed	48" (1,219 mm)
Bit to Bend Adjustable	N/A
U-Joint Torque Capacity	27,000 ft-lbs (36,607 Nm)



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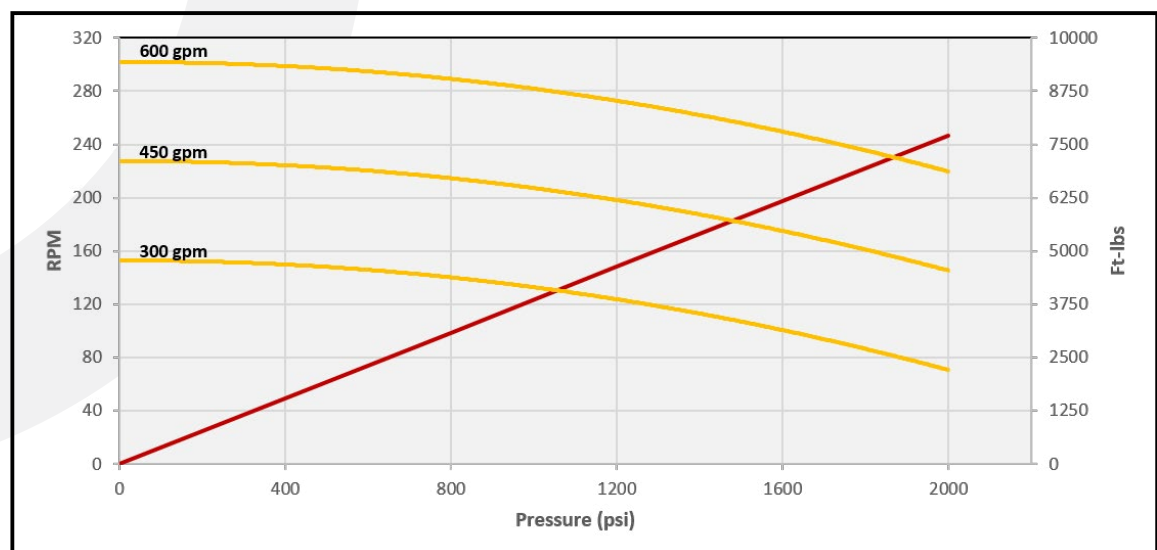


6-1/2" Mud Lube (B) 4/5 7.0 MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	369" (9.37 m)
Weight	2,580 lbs (1,170 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	300-600 gpm (1,136 - 2,271 l/min)
Revolutions	0.497 rev/gal (0.131 rev/l)
Max Differential Pressure	2,360 psi (16,272 kPa)
Max Torque	9,090 ft-lbs (12,324 Nm)
Stall Differential Pressure	3540 psi (24,407 kPa)
Stall Torque	13,635 ft-lbs (18,487 Nm)
Torque Slope	3.9 ft-lbs/psi (0.767 Nm/kPa)
Off-Bottom Pressure	256 psi (1,765 kPa)

Specifications	Tool Size 6-1/2" (165 mm)
Hole Size	7-7/8" - 9-7/8" (200 mm - 251 mm)
Bit Box	4-1/2" REG
Mandrel Bore	1-1/2" (38 mm)
Maximum W.O.B. - Dynamic	56,000 lbs (24,910 daN)
Maximum W.O.B. - Static	160,000 lbs (71,172 daN)
Maximum Bit Overpull	197,000 lbs (87,630 daN)
Absolute Overpull	845,000 lbs (376,141 daN)
Bearing Section Torque Capacity	35,000 ft-lbs (47,454 Nm)
Bit to Bend Fixed	48" (1,219 mm)
Bit to Bend Adjustable	67-3/4" (1721 mm)
U-Joint Torque Capacity	27,000 ft-lbs (36,607 Nm)



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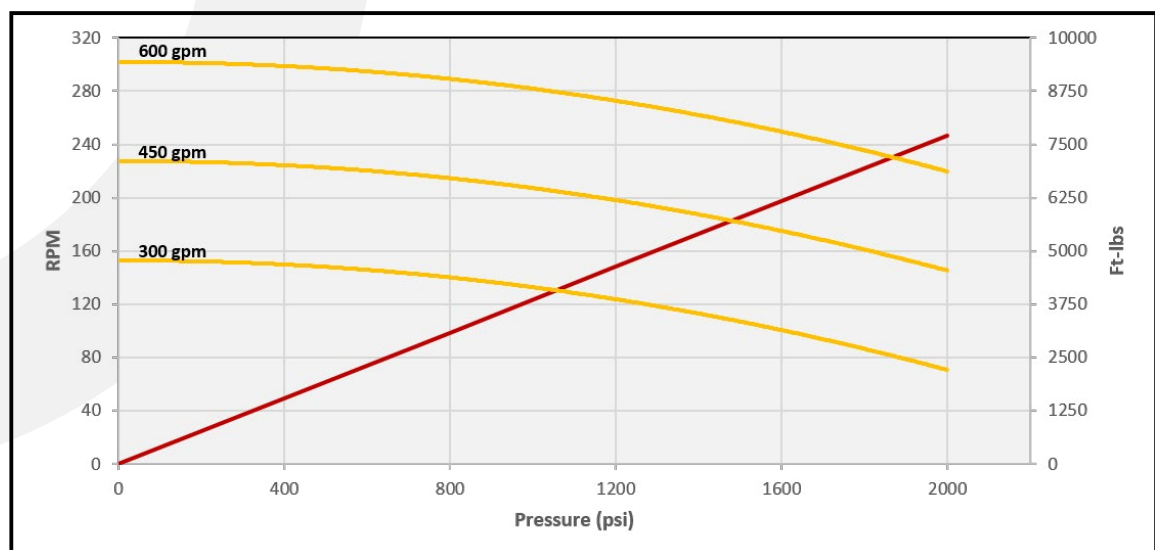


6-1/2" Mud Lube (D) 4/5 7.0 MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	381" (9.68 m)
Weight	2,680 lbs (1,216 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	300-600 gpm (1,136 - 2,271 l/min)
Revolutions	0.497 rev/gal (0.131 rev/l)
Max Differential Pressure	2,360 psi (16,272 kPa)
Max Torque	9,090 ft-lbs (12,324 Nm)
Stall Differential Pressure	3540 psi (11,686 kPa)
Stall Torque	13,635 ft-lbs (24,407 Nm)
Torque Slope	3.9 ft-lbs/psi (0.767 Nm/kPa)
Off-Bottom Pressure	256 psi (1,765 kPa)

Specifications	Tool Size 6-1/2" (165 mm)
Hole Size	7-7/8" - 9-7/8" (200 mm - 251 mm)
Bit Box	4-1/2" REG
Mandrel Bore	1-1/2" (38 mm)
Maximum W.O.B. - Dynamic	58,000 lbs (25,800 daN)
Maximum W.O.B. - Static	170,000 lbs (75,620 daN)
Maximum Bit Overpull	170,000 lbs (75,620 daN)
Absolute Overpull	820,000 lbs (364,754 daN)
Bearing Section Torque Capacity	38,500 ft-lbs (52,199 Nm)
Bit to Bend Fixed	36" (914 mm)
Bit to Bend Adjustable	55-3/4" (1,416 mm)
U-Joint Torque Capacity	27,000 ft-lbs (36,607 Nm)



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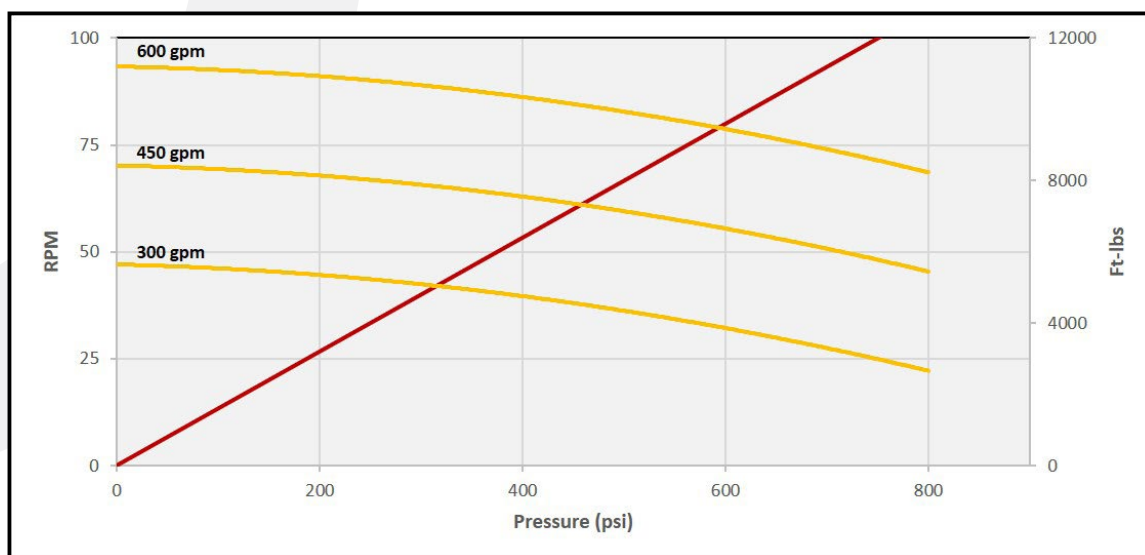


6-1/2" Mud Lube (B) 7/8 3.0 Slow MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	363" (9.22 m)
Weight	2,570 lbs (1,166 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	300-600 gpm 1,135 - 2,271 l/min)
Revolutions	0.155 rev/gal (0.041 rev/l)
Max Differential Pressure	680 psi (4,688 kPa)
Max Torque	10,880 ft-lbs (14,751 Nm)
Stall Differential Pressure	1,020 psi (7,032 kPa)
Stall Torque	16,320 ft-lbs (22,127 Nm)
Torque Slope	16.0 ft-lbs/psi (3.146 Nm/kPa)
Off-Bottom Pressure	137 psi (945 kPa)

Specifications	Tool Size 6-1/2" (165 mm)
Hole Size	7-7/8" - 9-7/8" (200 mm - 251 mm)
Bit Box	4-1/2" REG
Mandrel Bore	1-1/2" (38 mm)
Maximum W.O.B. - Dynamic	56,000 lbs (24,910 daN)
Maximum W.O.B. - Static	160,000 lbs (71,172 daN)
Maximum Bit Overpull	197,000 lbs (87,630 daN)
Absolute Overpull	845,000 lbs (375,875 daN)
Bearing Section Torque Capacity	38,000 ft-lbs (51,521 Nm)
Bit to Bend Fixed	48" (1,219 mm)
Bit to Bend Adjustable	67-3/4" (1,721 mm)
U-Joint Torque Capacity	27,000 ft-lbs (36, 607 Nm)



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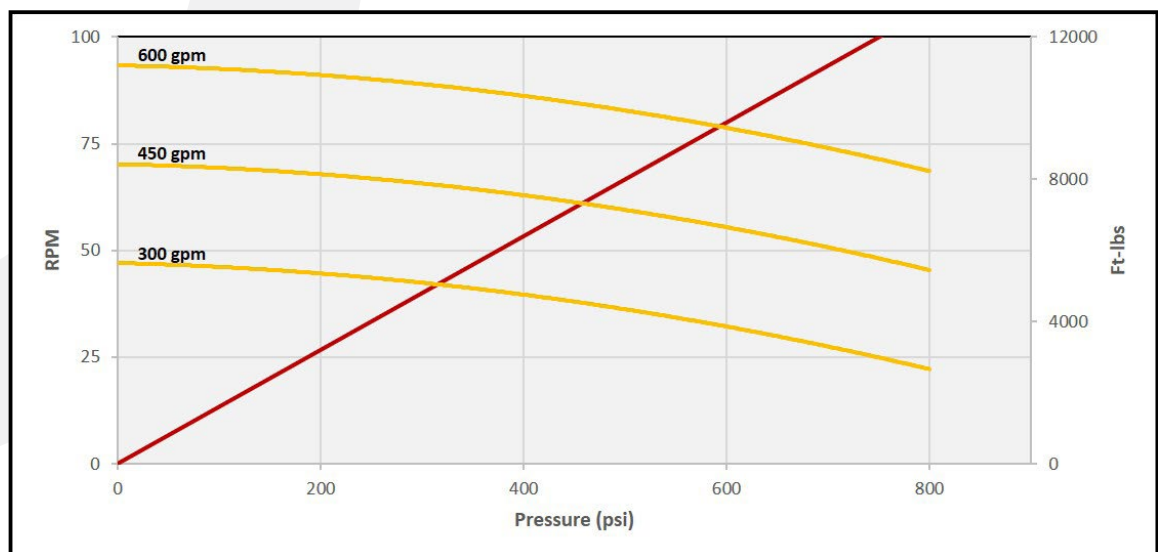


6-1/2" Mud Lube (D) 7/8 3.0 Slow MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	351" (8.92 m)
Weight	2,470 lbs (1,120 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	300-600 gpm 1,135 - 2,271 l/min)
Revolutions	0.155 rev/gal (0.041 rev/l)
Max Differential Pressure	680 psi (4,688 kPa)
Max Torque	10,880 ft-lbs (14,751 Nm)
Stall Differential Pressure	1,020 psi (7,032 kPa)
Stall Torque	16,320 ft-lbs (22,127 Nm)
Torque Slope	16.0 ft-lbs/psi (3.146 Nm/kPa)
Off-Bottom Pressure	137 psi (945 kPa)

Specifications	Tool Size 6-1/2" (165 mm)
Hole Size	7-7/8" - 9-7/8" (200 mm - 251 mm)
Bit Box	4-1/2" REG
Mandrel Bore	1-1/2" (38 mm)
Maximum W.O.B. - Dynamic	58,000 lbs (25,800 daN)
Maximum W.O.B. - Static	170,000 lbs (75,620 daN)
Maximum Bit Overpull	170,000 lbs (75,620 daN)
Absolute Overpull	820,000 lbs (364,754 daN)
Bearing Section Torque Capacity	38,500 ft-lbs (52,199 Nm)
Bit to Bend Fixed	36" (914 mm)
Bit to Bend Adjustable	55-3/4" (1,416 mm)
U-Joint Torque Capacity	27,000 ft-lbs (36, 607 Nm)



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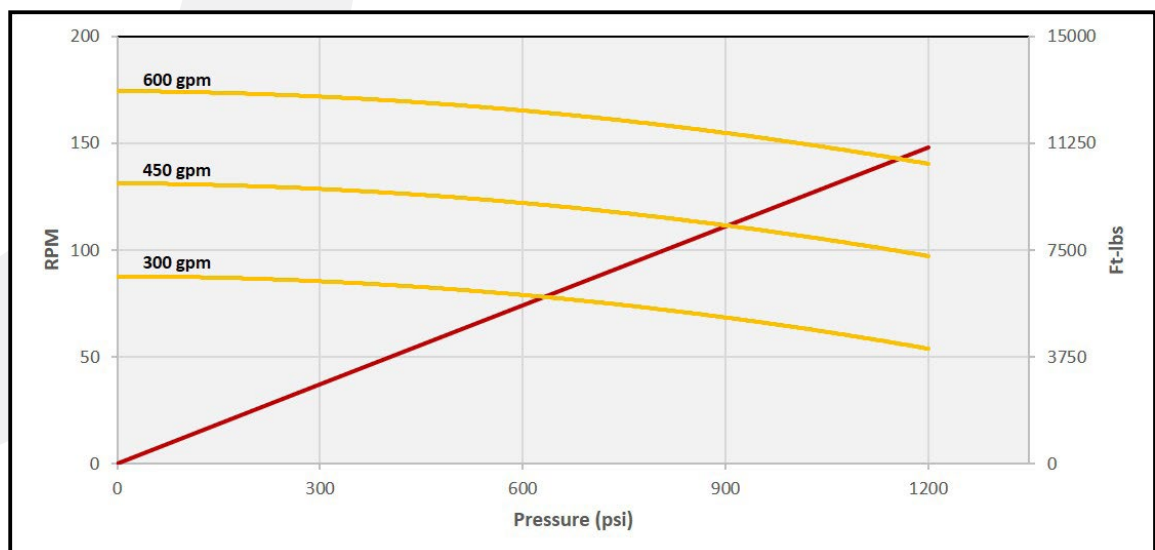


6-1/2" Mud Lube (B) 7/8 5.0 MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	354" (8.99 m)
Weight	2,495 lbs (1,132 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	300-600 gpm 1,135 - 2,271 l/min)
Revolutions	0.288 rev/gal (0.076 rev/l)
Max Differential Pressure	1,130 psi (7,791 kPa)
Max Torque	10,460 ft-lbs (14,182 Nm)
Stall Differential Pressure	1,695 psi (11,686 kPa)
Stall Torque	15,690 ft-lbs (21,273 Nm)
Torque Slope	9.3 ft-lbs/psi (1.829 Nm/kPa)
Off-Bottom Pressure	193 psi (1,330 kPa)

Specifications	Tool Size 6-1/2" (165 mm)
Hole Size	7-7/8" - 9-7/8" (200 mm - 251 mm)
Bit Box	4-1/2" REG
Mandrel Bore	1-1/2" (38 mm)
Maximum W.O.B. - Dynamic	56,000 lbs (24,910 daN)
Maximum W.O.B. - Static	160,000 lbs (71,172 daN)
Maximum Bit Overpull	197,000 lbs (87,630 daN)
Absolute Overpull	845,000 lbs (375,875 daN)
Bearing Section Torque Capacity	35,000 ft-lbs (47,454 Nm)
Bit to Bend Fixed	48" (914 mm)
Bit to Bend Adjustable	67-3/4" (1721 mm)
U-Joint Torque Capacity	27,000 ft-lbs (36,607 Nm)



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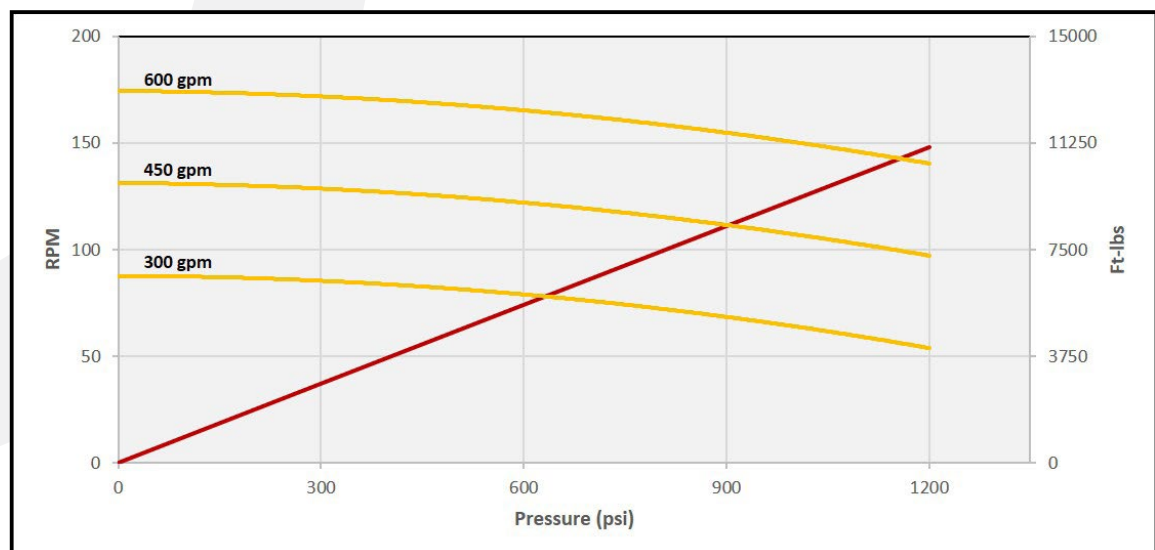
6-1/2" Mud Lube (D) 7/8 5.0

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	342" (8.99 m)
Weight	2,395 lbs (1,086 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	300-600 gpm 1,135 - 2,271 l/min)
Revolutions	0.288 rev/gal (0.076 rev/l)
Max Differential Pressure	1,130 psi (7,791 kPa)
Max Torque	10,460 ft-lbs (14,182 Nm)
Stall Differential Pressure	1,695 psi (11,686 kPa)
Stall Torque	15,690 ft-lbs (21,273 Nm)
Torque Slope	9.3 ft-lbs/psi (1.829 Nm/kPa)
Off-Bottom Pressure	193 psi (1,330 kPa)

Specifications	Tool Size 6-1/2" (165 mm)
Hole Size	7-7/8" - 9-7/8" (200 mm - 251 mm)
Bit Box	4-1/2" REG
Mandrel Bore	1-1/2" (38 mm)
Maximum W.O.B. - Dynamic	58,000 lbs (25,800 daN)
Maximum W.O.B. - Static	170,000 lbs (75,620 daN)
Maximum Bit Overpull	170,000 lbs (75,620 daN)
Absolute Overpull	820,000 lbs (364,754 daN)
Bearing Section Torque Capacity	38,500 ft-lbs (52,199 Nm)
Bit to Bend Fixed	36" (914 mm)
Bit to Bend Adjustable	55-3/4" (1416 mm)
U-Joint Torque Capacity	27,000 ft-lbs (36,607 Nm)



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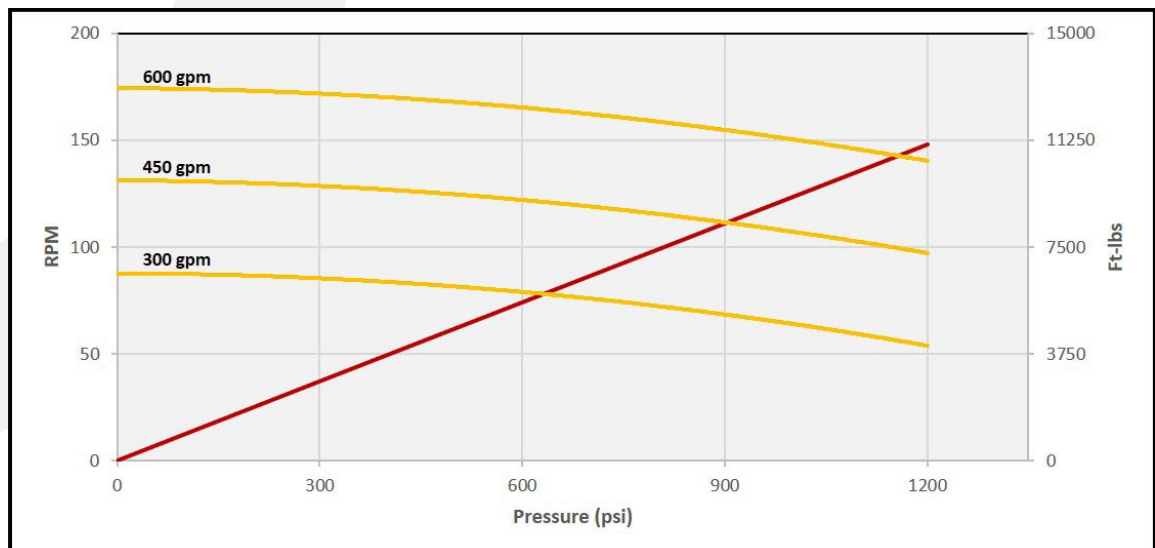


6-1/2" Mud Lube (B) 7/8 5.0 TDI CAM MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	366" (9.30 m)
Weight	2,595 lbs (1,177 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	300-600 gpm 1,135 - 2,271 l/min)
Revolutions	0.288 rev/gal (0.076 rev/l)
Max Differential Pressure	1,130 psi (7,791 kPa)
Max Torque	10,460 ft-lbs (14,182 Nm)
Stall Differential Pressure	1,695 psi (11,686 kPa)
Stall Torque	15,690 ft-lbs (21,273 Nm)
Torque Slope	9.3 ft-lbs/psi (1.829 Nm/kPa)
Off-Bottom Pressure	193 psi (1,330 kPa)

Specifications	Tool Size 6-1/2" (165 mm)
Hole Size	7-7/8" - 9-7/8" (200 mm - 251 mm)
Bit Box	4-1/2" REG
Mandrel Bore	1-1/2" (38 mm)
Maximum W.O.B. - Dynamic	56,000 lbs (24,910 daN)
Maximum W.O.B. - Static	160,000 lbs (71,172 daN)
Maximum Bit Overpull	197,000 lbs (87,630 daN)
Absolute Overpull	845,000 lbs (375,875 daN)
Bearing Section Torque Capacity	35,000 ft-lbs (47,454 Nm)
Bit to Bend Fixed	48" (914 mm)
Bit to Bend Adjustable	67-3/4" (1721 mm)
U-Joint Torque Capacity	27,000 ft-lbs (36,607 Nm)



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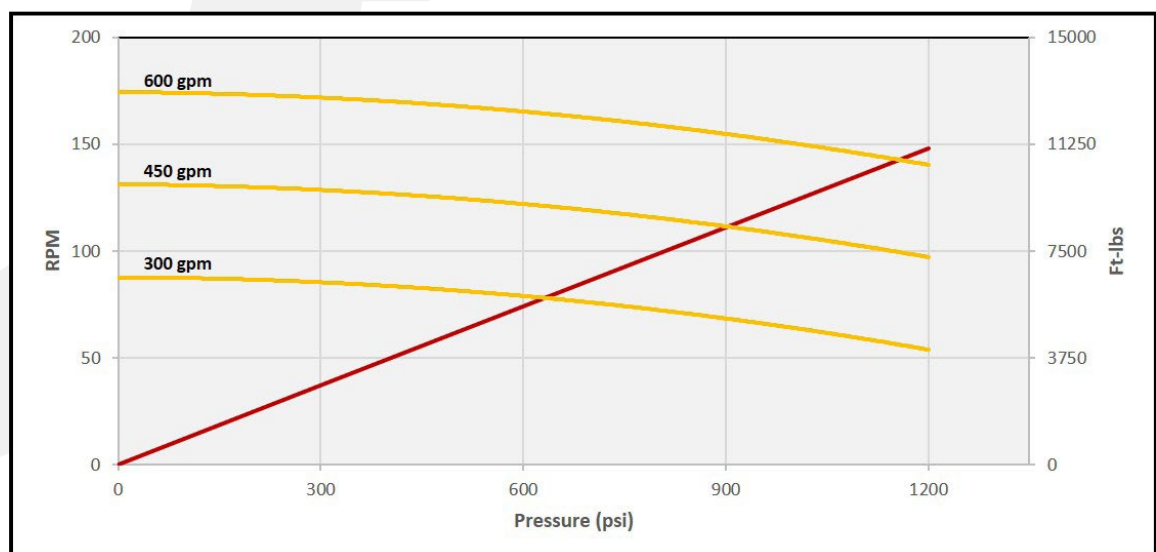


6-1/2" Mud Lube (D) 7/8 5.0 TDI CAM MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	354" (8.99 m)
Weight	2,495 lbs (1,132 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	300-600 gpm 1,135 - 2,271 l/min)
Revolutions	0.288 rev/gal (0.076 rev/l)
Max Differential Pressure	1,130 psi (7,791 kPa)
Max Torque	10,460 ft-lbs (14,182 Nm)
Stall Differential Pressure	1,695 psi (11,686 kPa)
Stall Torque	15,690 ft-lbs (21,273 Nm)
Torque Slope	9.3 ft-lbs/psi (1.829 Nm/kPa)
Off-Bottom Pressure	193 psi (1,330 kPa)

Specifications	Tool Size 6-1/2" (165 mm)
Hole Size	7-7/8" - 9-7/8" (200 mm - 251 mm)
Bit Box	4-1/2" REG
Mandrel Bore	1-1/2" (38 mm)
Maximum W.O.B. - Dynamic	58,000 lbs (25,800 daN)
Maximum W.O.B. - Static	170,000 lbs (75,620 daN)
Maximum Bit Overpull	170,000 lbs (75,620 daN)
Absolute Overpull	820,000 lbs (364,754 daN)
Bearing Section Torque Capacity	38,500 ft-lbs (52,199 Nm)
Bit to Bend Fixed	36" (914 mm)
Bit to Bend Adjustable	55-3/4" (1416 mm)
U-Joint Torque Capacity	27,000 ft-lbs (36,607 Nm)



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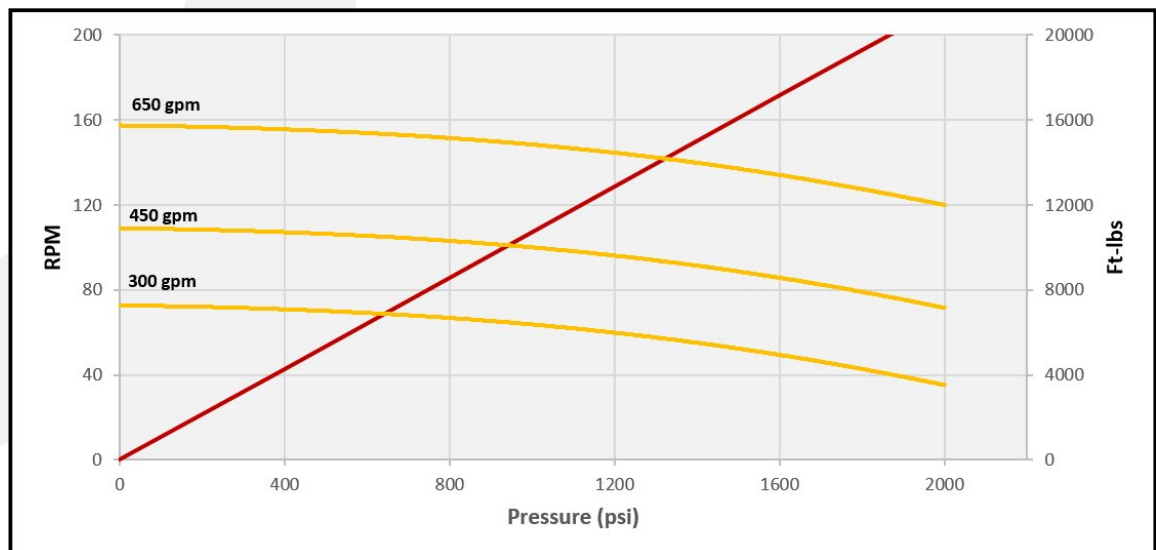
6-1/2" Mud Lube (B) 7/8 5.7

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	419" (10.64 m)
Weight	2,600 lbs (1,179 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	300-650 gpm (1,136- 2461 l/min)
Revolutions	0.242 rev/gal 0.064rev/l
Max Differential Pressure	1280 psi (8,825 kPa)
Max Torque	13,270 ft-lbs (17,992 Nm)
Stall Differential Pressure	1,920 psi (13,237 kPa)
Stall Torque	20,580 ft-lbs (27,903 Nm)
Torque Slope	10.7 ft-lbs/psi (2.104 Nm/kPa)
Off-Bottom Pressure	150 psi (1,034 kPa)

Specifications	Tool Size 6-1/2" (152 mm)
Hole Size	7-7/8" - 9-7/8" (178 mm - 229 mm)
Bit Box	4-1/2" REG
Mandrel Bore	1-1/2" (25 mm)
Maximum W.O.B. - Dynamic	56,000 lbs (24,910 daN)
Maximum W.O.B. - Static	160,000 lbs (71,171 daN)
Maximum Bit Overpull	197,000 lbs (87,630 daN)
Absolute Overpull	845,000 lbs (375,874 daN)
Bearing Section Torque Capacity	35,000 ft-lbs (47,453 Nm)
Bit to Bend Fixed	48" (1,219 mm)
Bit to Bend Adjustable	67-7/8" (1,702 mm)
U-Joint Torque Capacity	27,000 ft-lbs (36,607 Nm)



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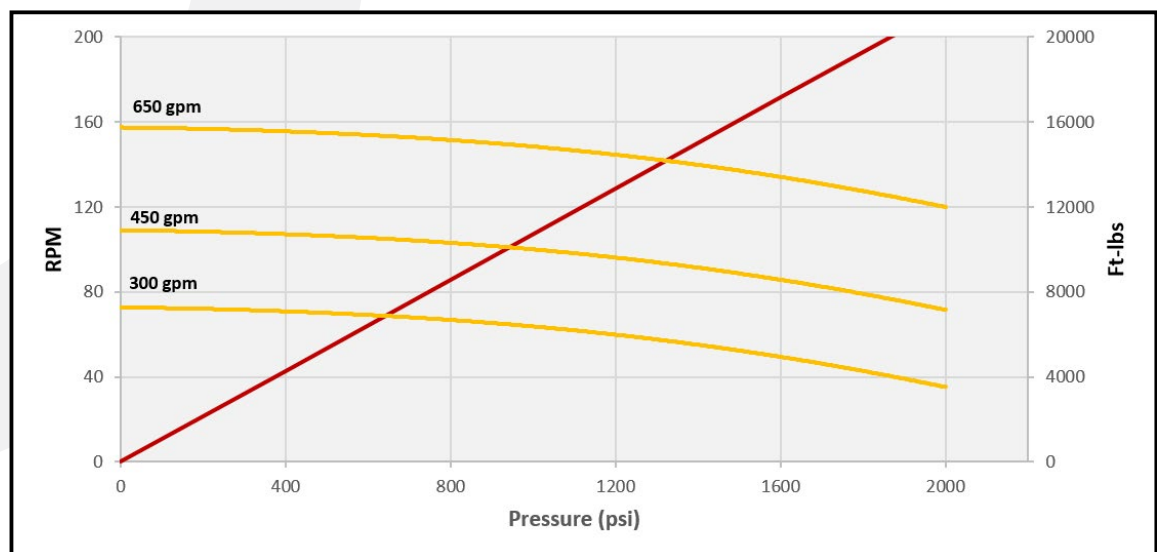
6-1/2" Mud Lube (D) 7/8 5.7

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	407" (10.33 m)
Weight	2,500 lbs (1,134 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	300-650 gpm (1,136- 2461 l/min)
Revolutions	0.242 rev/gal 0.064rev/l
Max Differential Pressure	1280 psi (8,825 kPa)
Max Torque	13,270 ft-lbs (17,992 Nm)
Stall Differential Pressure	1,920 psi (13,237 kPa)
Stall Torque	20,580 ft-lbs (27,903 Nm)
Torque Slope	10.7 ft-lbs/psi (2.104 Nm/kPa)
Off-Bottom Pressure	150 psi (1,034 kPa)

Specifications	Tool Size 6-1/2" (152 mm)
Hole Size	7-7/8" - 9-7/8" (178 mm - 229 mm)
Bit Box	4-1/2" REG
Mandrel Bore	1-1/2" (25 mm)
Maximum W.O.B. - Dynamic	58,000 lbs (25,800 daN)
Maximum W.O.B. - Static	170,000 lbs (71,171 daN)
Maximum Bit Overpull	290,000 lbs (128,999 daN)
Absolute Overpull	820,000 lbs (364,754 daN)
Bearing Section Torque Capacity	38,500 ft-lbs (52,199 Nm)
Bit to Bend Fixed	36" (914 mm)
Bit to Bend Adjustable	56" (1,422 mm)
U-Joint Torque Capacity	27,000 ft-lbs (36,607 Nm)



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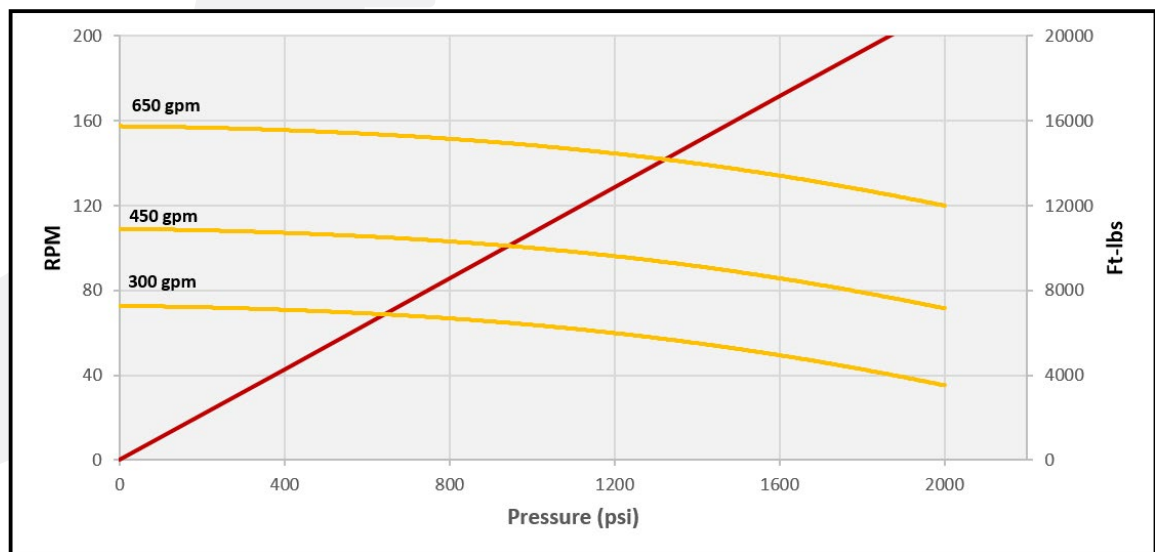


6-1/2" Mud Lube (B) 7/8 5.7 TDI CAM MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	431" (10.94 m)
Weight	2,700 lbs (1,225 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	300-650 gpm (1,136- 2461 l/min)
Revolutions	0.242 rev/gal 0.064rev/l
Max Differential Pressure	1280 psi (8,825 kPa)
Max Torque	13,270 ft-lbs (17,992 Nm)
Stall Differential Pressure	1,920 psi (13,237 kPa)
Stall Torque	20,580 ft-lbs (27,903 Nm)
Torque Slope	10.7 ft-lbs/psi (2.104 Nm/kPa)
Off-Bottom Pressure	150 psi (1,034 kPa)

Specifications	Tool Size 6-1/2" (152 mm)
Hole Size	7-7/8" - 9-7/8" (178 mm - 229 mm)
Bit Box	4-1/2" REG
Mandrel Bore	1-1/2" (25 mm)
Maximum W.O.B. - Dynamic	56,000 lbs (24,910 daN)
Maximum W.O.B. - Static	160,000 lbs (71,172 daN)
Maximum Bit Overpull	197,000 lbs (87,630 daN)
Absolute Overpull	845,000 lbs (375,875 daN)
Bearing Section Torque Capacity	35,000 ft-lbs (47,453 Nm)
Bit to Bend Fixed	48" (1,219 mm)
Bit to Bend Adjustable	67-7/8" (1,702 mm)
U-Joint Torque Capacity	27,000 ft-lbs (36,607 Nm)



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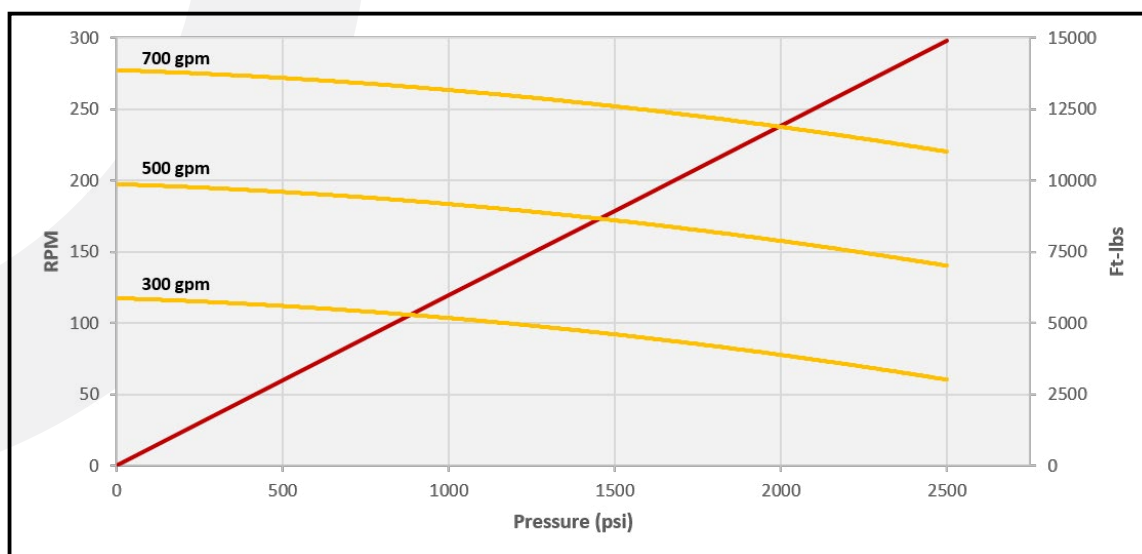
7-1/8" Mud Lube (B) 5/6 9.4

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	433" (10.99 m)
Weight	4,500 lbs (2041 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	300-700 gpm (1,136- 2,650 l/min)
Revolutions	0.4 rev/gal 0.106 rev/l
Max Differential Pressure	1880 psi (12,962 kPa)
Max Torque	11,214 ft-lbs (15,204Nm)
Stall Differential Pressure	2,820 psi (19,443 kPa)
Stall Torque	16,821 ft-lbs (22,806 Nm)
Torque Slope	6.0 ft-lbs/psi (1.180 Nm/kPa)
Off-Bottom Pressure	128 psi (883 kPa)

Specifications	Tool Size 7-1/8" (178 mm)
Hole Size	8-3/8" - 9-7/8" (203 mm - 229 mm)
Bit Box	4-1/2" REG
Mandrel Bore	1-1/2" (25 mm)
Maximum W.O.B. - Dynamic	58,000 lbs (25,800 daN)
Maximum W.O.B. - Static	164,000 lbs (72,951 daN)
Maximum Bit Overpull	202,000 lbs (89,854 daN)
Absolute Overpull	865,000 lbs (384,771 daN)
Bearing Section Torque Capacity	43,000 ft-lbs (58,300 Nm)
Bit to Bend Fixed	48" (1,219 mm)
Bit to Bend Adjustable	69-1/4" (1,753 mm)
U-Joint Torque Capacity	31,000 ft-lbs (42,030 Nm)



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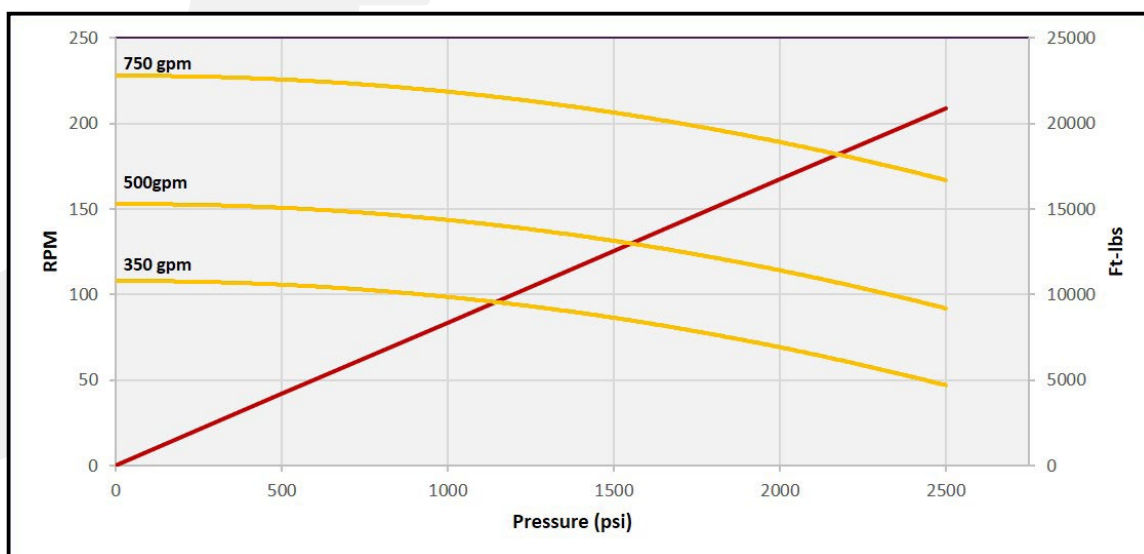
7-1/8" Mud Lube (B) 6/7 8.4

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	433" (10.99 m)
Weight	4,500 lbs (2041 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	350-750 gpm (1,325- 2,839 l/min)
Revolutions	0.30 rev/gal .079 rev/l
Max Differential Pressure	1980 psi (13,652 kPa)
Max Torque	16,550 ft-lbs (22,439 Nm)
Stall Differential Pressure	3,110 psi (21,443 kPa)
Stall Torque	26,060 ft-lbs (35,333 Nm)
Torque Slope	8.4 ft-lbs/psi (1.648 Nm/kPa)
Off-Bottom Pressure	160 psi (1,103 kPa)

Specifications	Tool Size 7-1/8" (178 mm)
Hole Size	8-3/8" - 9-7/8" (203 mm - 229 mm)
Bit Box	4-1/2" REG
Mandrel Bore	1-1/2" (25 mm)
Maximum W.O.B. - Dynamic	58,000 lbs (25,800 daN)
Maximum W.O.B. - Static	164,000 lbs (72,951 daN)
Maximum Bit Overpull	202,000 lbs (89,854 daN)
Absolute Overpull	865,000 lbs (384,771 daN)
Bearing Section Torque Capacity	43,000 ft-lbs (58,300 Nm)
Bit to Bend Fixed	48" (1,219 mm)
Bit to Bend Adjustable	69-1/4" (1,753 mm)
U-Joint Torque Capacity	31,000 ft-lbs (42,030 Nm)



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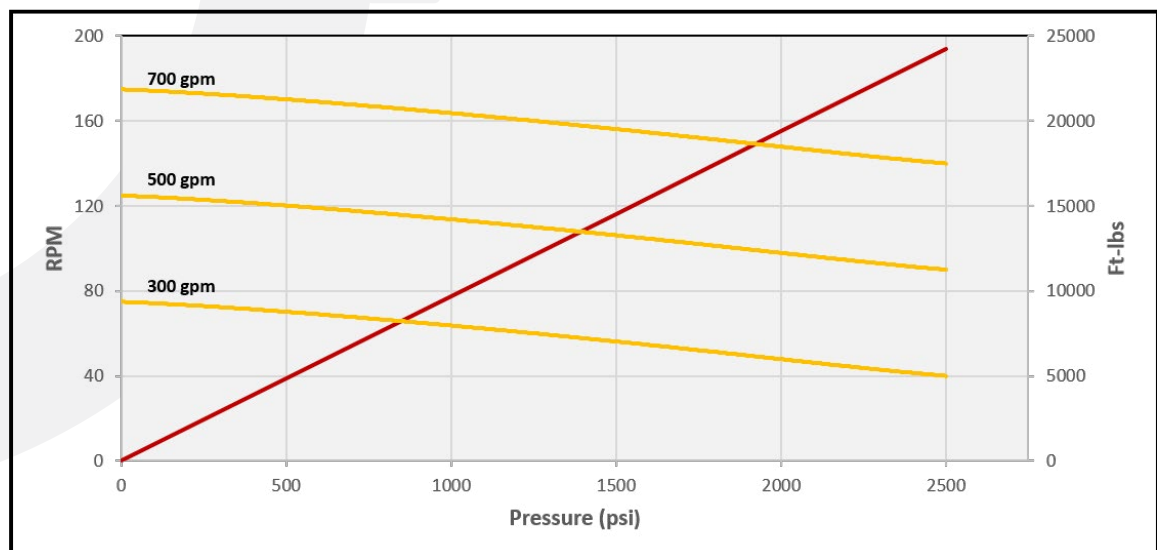
7-1/8" Mud Lube (B) 7/8 6.9

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	433" (10.99 m)
Weight	4,500 lbs (2041 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	300-750 gpm (1,136- 2,839 l/min)
Revolutions	0.25 rev/gal 0.066 rev/l
Max Differential Pressure	1960 psi (13,514 kPa)
Max Torque	19,010 ft-lbs (25,774 Nm)
Stall Differential Pressure	2,940 psi (20,270 kPa)
Stall Torque	28,515 ft-lbs (38,661 Nm)
Torque Slope	9.7 ft-lbs/psi (1.907 Nm/kPa)
Off-Bottom Pressure	127 psi (876 kPa)

Specifications	Tool Size 7-1/8" (178 mm)
Hole Size	8-3/8" - 9-7/8" (203 mm - 229 mm)
Bit Box	4-1/2" REG
Mandrel Bore	1-1/2" (25 mm)
Maximum W.O.B. - Dynamic	58,000 lbs (25,800 daN)
Maximum W.O.B. - Static	164,000 lbs (72,951 daN)
Maximum Bit Overpull	202,000 lbs (89,854 daN)
Absolute Overpull	865,000 lbs (384,771 daN)
Bearing Section Torque Capacity	43,000 ft-lbs (58,300 Nm)
Bit to Bend Fixed	48" (1,219 mm)
Bit to Bend Adjustable	69-1/4" (1,753 mm)
U-Joint Torque Capacity	31,000 ft-lbs (42,030 Nm)



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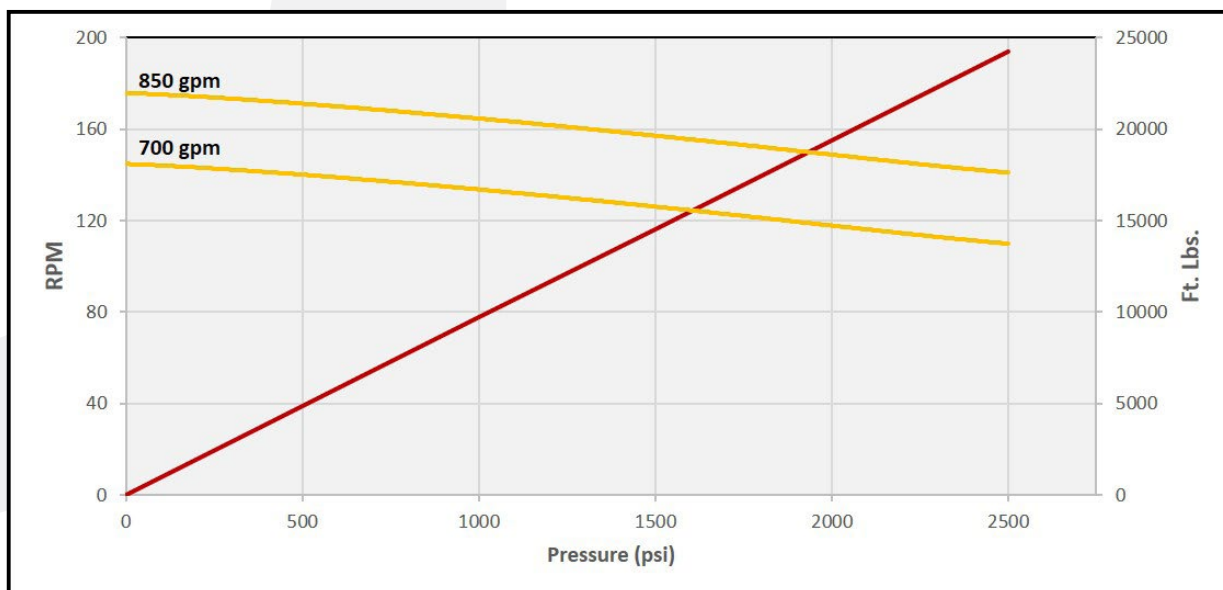
7 1/8" Mud Lube .21 RPG

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	479" (12.16 m)
Weight	6,000 lbs (2721 kg)
Performance Details	
Flow Range	600-900 gpm (2,271 - 3,407 l/min)
Revolutions	0.21 rev/gal 0.055 rev/l
Max Differential Pressure	1950 psi (13,445 kPa)
Max Torque	18,915 ft-lbs (25,645 Nm)
Stall Differential Pressure	2,925 psi (20,167 kPa)
Stall Torque	28,373 ft-lbs (38,469 Nm)
Torque Slope	9.7 ft-lbs/psi (1.907 Nm/kPa)
Off-Bottom Pressure	127 psi (876 kPa)

Specifications	Tool Size 7-1/8" (181 mm)
Hole Size	8-1/2" - 10-5/8" (216 mm - 254mm)
Bit Box	6-5/8" REG
Mandrel Bore	1-1/2" (38 mm)
Maximum W.O.B. - Dynamic	58,000 lbs (25,800 daN)
Maximum W.O.B. - Static	164,000 lbs (72,951 daN)
Maximum Bit Overpull	202,000 lbs (89,854 daN)
Absolute Overpull	865,000 lbs (384,771 daN)
Bearing Section Torque Capacity	43,000 ft-lbs (58,300 Nm)
Bit to Bend Fixed	52" (1,321 mm)
Bit to Bend Adjustable	85-3/16" (2,159 mm)
U-Joint Torque Capacity	40,000 ft-lbs (54,233 Nm)



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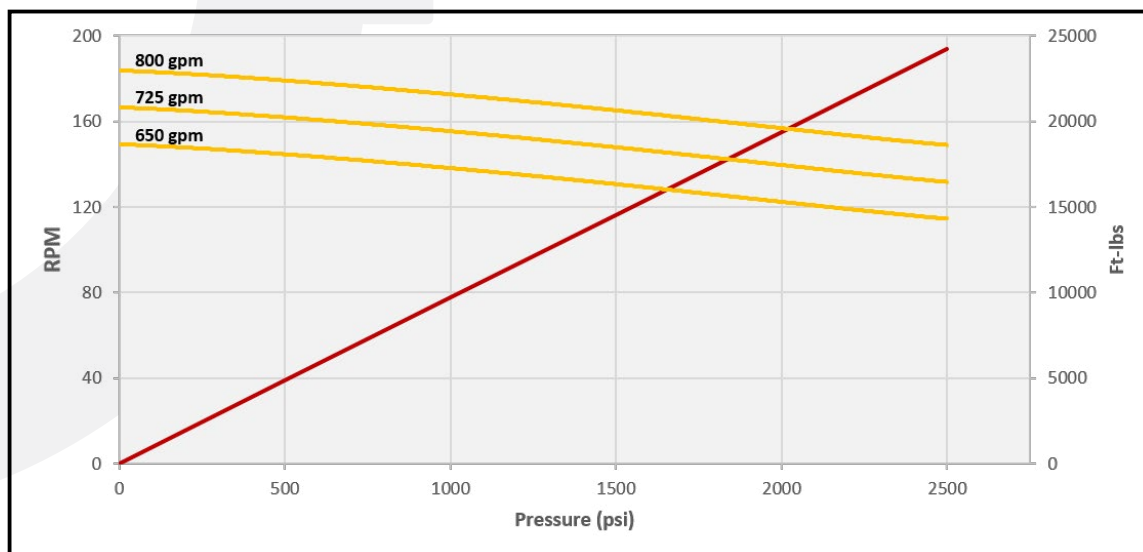
7 1/8" Mud Lube .23 RPG

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	479" (12.16 m)
Weight	6,000 lbs (2721 kg)
Performance Details	
Flow Range	500-800 gpm (1,892 - 3028 l/min)
Revolutions	0.23 rev/gal 0.061 rev/l
Max Differential Pressure	1950 psi (13,448 kPa)
Max Torque	18,915 ft-lbs (25,645 Nm)
Stall Differential Pressure	2,925 psi (20,167 kPa)
Stall Torque	28,373 ft-lbs (38,469 Nm)
Torque Slope	9.7 ft-lbs/psi (1.907 Nm/kPa)
Off-Bottom Pressure	127 psi (876 kPa)

Specifications	Tool Size 7-1/8" (181 mm)
Hole Size	8-1/2" - 10-5/8" (216 mm - 254 mm)
Bit Box	6-5/8" REG
Mandrel Bore	1-1/2" (38 mm)
Maximum W.O.B. - Dynamic	58,000 lbs (25,800 daN)
Maximum W.O.B. - Static	164,000 lbs (72,951 daN)
Maximum Bit Overpull	202,000 lbs (89,854 daN)
Absolute Overpull	865,000 lbs (384,771 daN)
Bearing Section Torque Capacity	43,000 ft-lbs (58,300 Nm)
Bit to Bend Fixed	52" (1,321 mm)
Bit to Bend Adjustable	85-3/16" (2,159 mm)
U-Joint Torque Capacity	40,000 ft-lbs (54,233 Nm)



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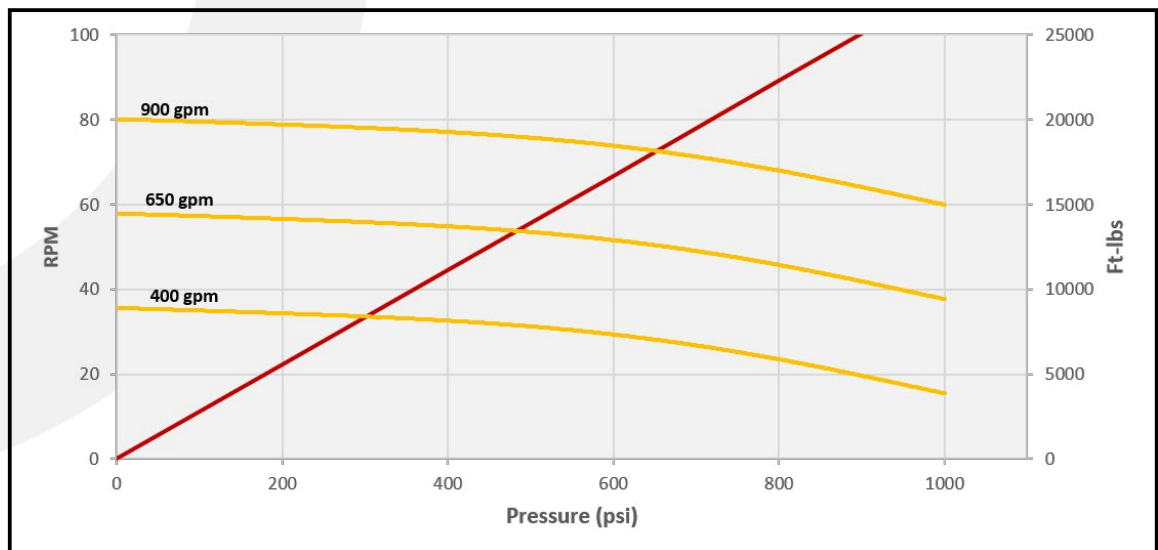
8" Mud Lube (D) 7/8 3.4

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	482" (12.24 m)
Weight	6,500 lbs (2948 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	400-900 gpm (1,514- 3,407 l/min)
Revolutions	0.089 rev/gal 0.024 rev/l
Max Differential Pressure	770 psi (5,309 kPa)
Max Torque	21,450 ft-blbs (29,082 Nm)
Stall Differential Pressure	1,150 psi (7,929 kPa)
Stall Torque	32,180 ft-blbs (43,630 Nm)
Torque Slope	28.04 ft-blbs/psi (5.514 Nm/kPa)
Off-Bottom Pressure	200 psi (1,379 kPa)

Specifications	Tool Size 8" (203 mm)
Hole Size	9-7/8" - 12-1/4" (229 mm - 305 mm)
Bit Box	6-5/8" REG
Mandrel Bore	2" (51 mm)
Maximum W.O.B. - Dynamic	86,000 lbs (38,255 daN)
Maximum W.O.B. - Static	240,000 lbs (106,757 daN)
Maximum Bit Overpull	396,000 lbs (176,150 daN)
Absolute Overpull	990,000 lbs (440,374 daN)
Bearing Section Torque Capacity	55,000 ft-lbs (74,570 Nm)
Bit to Bend Fixed	47" (1,194 mm)
Bit to Bend Adjustable	70" (1,778 mm)
U-Joint Torque Capacity	40,000 ft-lbs (54,233 Nm)



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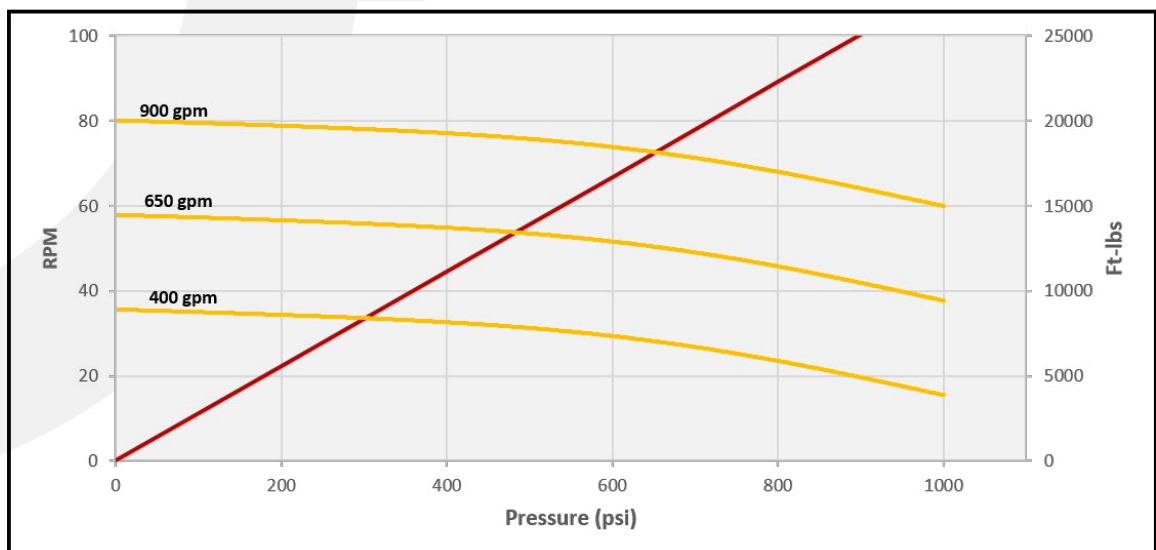
8" Oil Sealed 7/8 3.4

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	482" (12.24 m)
Weight	6,500 lbs (2948 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	400-900 gpm (1,514- 3,407 l/min)
Revolutions	0.089 rev/gal 0.024 rev/l
Max Differential Pressure	770 psi (5,309 kPa)
Max Torque	21,450 ft-blbs (29,082 Nm)
Stall Differential Pressure	1,150 psi (7,929 kPa)
Stall Torque	32,180 ft-blbs (43,630 Nm)
Torque Slope	28.04 ft-blbs/psi (5.514 Nm/psi)
Off-Bottom Pressure	200 psi (1,379 kPa)

Specifications	Tool Size 8" (203 mm)
Hole Size	9-7/8" - 12-1/4" (229 mm - 305 mm)
Bit Box	6-5/8" REG
Mandrel Bore	2" (51 mm)
Maximum W.O.B. - Dynamic	86,000 lbs (38,255 daN)
Maximum W.O.B. - Static	230,000 lbs (102,309 daN)
Maximum Bit Overpull	396,000 lbs (176,150 daN)
Absolute Overpull	990,000 lbs (440,374 daN)
Bearing Section Torque Capacity	55,000 ft-lbs (74,570 Nm)
Bit to Bend Fixed	63-1/4" (1,600 mm)
Bit to Bend Adjustable	86-1/4" (2,184 mm)
U-Joint Torque Capacity	40,000 ft-lbs (54,233 Nm)



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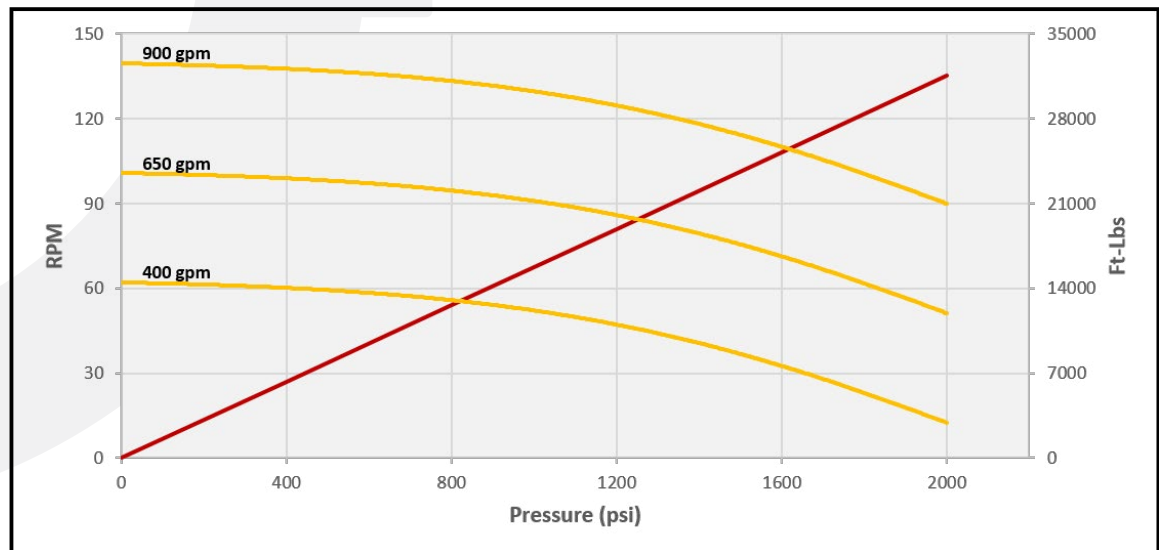
8" Mud Lube (D) 7/8 5.9

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	482" (12.24 m)
Weight	6,500 lbs (2948 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	400-900 gpm (1,514- 3,407 l/min)
Revolutions	0.155 rev/gal (0.041 rev/l)
Max Differential Pressure	1390 psi (9,584 kPa)
Max Torque	21,870 ft-lbs (29,652 Nm)
Stall Differential Pressure	2.190 psi (15,100 kPa)
Stall Torque	34,440 ft-lbs (46,694 Nm)
Torque Slope	15.7 ft-lbs/psi (3.087 Nm/kPa)
Off-Bottom Pressure	1184 psi (1,269 kPa)

Specifications	Tool Size 8" (203 mm)
Hole Size	9-7/8" - 12-1/4" (229 mm - 305 mm)
Bit Box	6-5/8" REG
Mandrel Bore	2" (51 mm)
Maximum W.O.B. - Dynamic	86,000 lbs (38,255 daN)
Maximum W.O.B. - Static	240,000 lbs (106,757 daN)
Maximum Bit Overpull	396,000 lbs (176,150 daN)
Absolute Overpull	990,000 lbs (440,374 daN)
Bearing Section Torque Capacity	55,000 ft-lbs (74,570 Nm)
Bit to Bend Fixed	47" (1,194 mm)
Bit to Bend Adjustable	70" (1,778 mm)
U-Joint Torque Capacity	40,000 ft-lbs (54,233 Nm)



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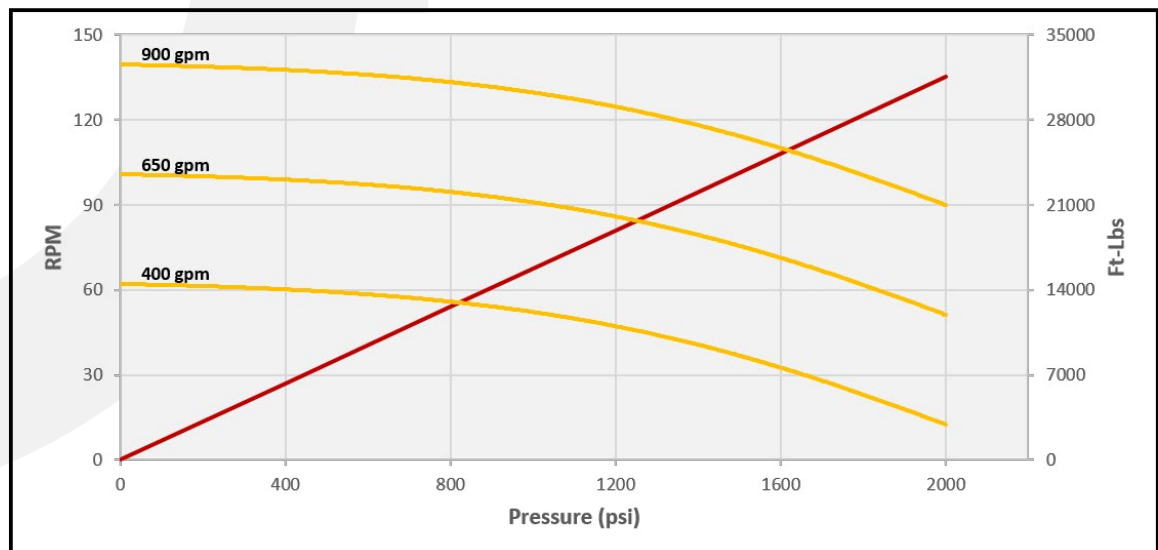
8" Oil Sealed 7/8 5.9

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	494" (12.54 m)
Weight	6,600 lbs (2994 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	400-900 gpm (1,514- 3,407 l/min)
Revolutions	0.155 rev/gal (0.041 rev/l)
Max Differential Pressure	1390 psi (9,584 kPa)
Max Torque	21,870 ft-lbs (29,652 Nm)
Stall Differential Pressure	2190 psi (15,100 kPa)
Stall Torque	34,440 ft-lbs (46,694 Nm)
Torque Slope	15.7 ft-lbs/psi (3.087 Nm/kPa)
Off-Bottom Pressure	184 psi (1,269 kPa)

Specifications	Tool Size 8" (203 mm)
Hole Size	9-7/8" - 12-1/4" (229 mm - 305 mm)
Bit Box	6-5/8" REG
Mandrel Bore	2" (51 mm)
Maximum W.O.B. - Dynamic	86,000 lbs (38,255 daN)
Maximum W.O.B. - Static	230,000 lbs (102,309 daN)
Maximum Bit Overpull	396,000 lbs (176,150 daN)
Absolute Overpull	990,000 lbs (440,374 daN)
Bearing Section Torque Capacity	55,000 ft-lbs (74,570 Nm)
Bit to Bend Fixed	63-1/4" (1,600 mm)
Bit to Bend Adjustable	86-1/4" (2,184 mm)
U-Joint Torque Capacity	40,000 ft-lbs (54,233 Nm)



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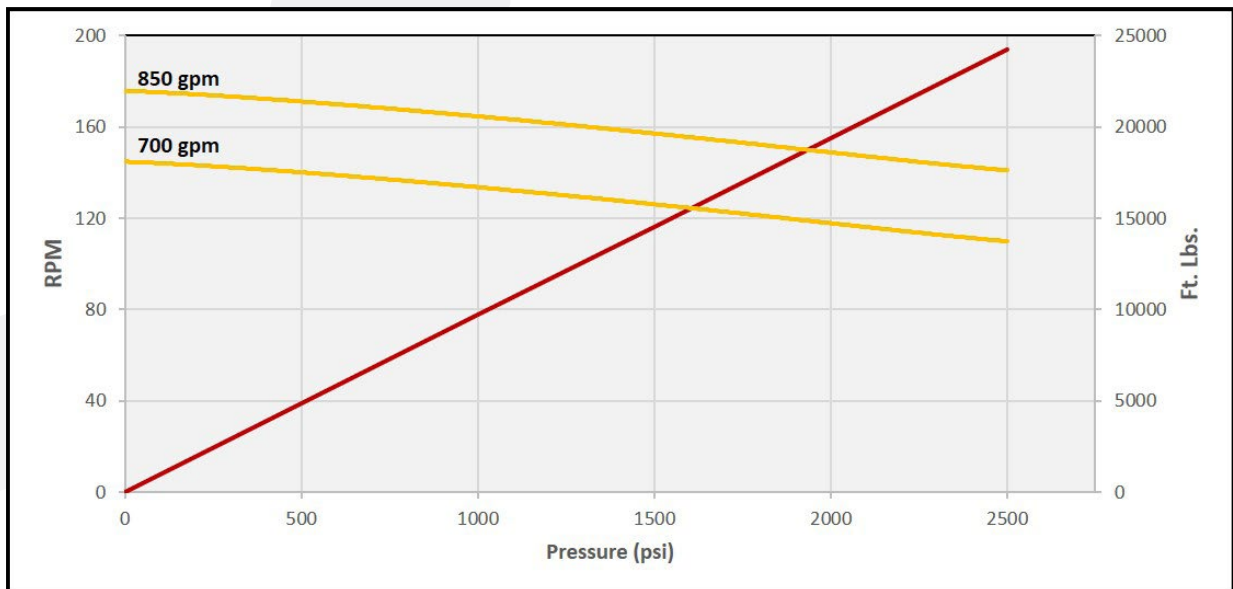
8" Oil-Sealed .21 RPG

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	479" (12.16 m)
Weight	6,000 lbs (2722 kg)
Performance Details	
Flow Range	600 - 900 gpm (2,271 - 3,407 l/min)
Revolutions	0.21 rev/gal 0.055 rev/l
Max Differential Pressure	1950 psi (13,445 kPa)
Max Torque	18,915 ft-lbs (25,645 Nm)
Stall Differential Pressure	2,925 psi (20,167 kPa)
Stall Torque	28,373 ft-lbs (38,469 Nm)
Torque Slope	9.7 ft-lbs/psi (1.907 Nm/kPa)
Off-Bottom Pressure	127 psi (876 kPa)

Specifications	Tool Size 8" (203 mm)
Hole Size	9-7/8" - 12-1/4" (251 mm - 311 mm)
Bit Box	6-5/8" REG
Mandrel Bore	2" (51 mm)
Maximum W.O.B. - Dynamic	86,000 lbs (38,255 daN)
Maximum W.O.B. - Static	230,000 lbs (102,310 daN)
Maximum Bit Overpull	396,000 lbs (176,150 daN)
Absolute Overpull	990,000 lbs (440,374 daN)
Bearing Section Torque Capacity	55,000 ft-lbs (74,570 Nm)
Bit to Bend Fixed	63-1/4" (1,600 mm)
Bit to Bend Adjustable	86-1/4" (2,184 mm)
U-Joint Torque Capacity	40,000 ft-lbs (54,233 Nm)



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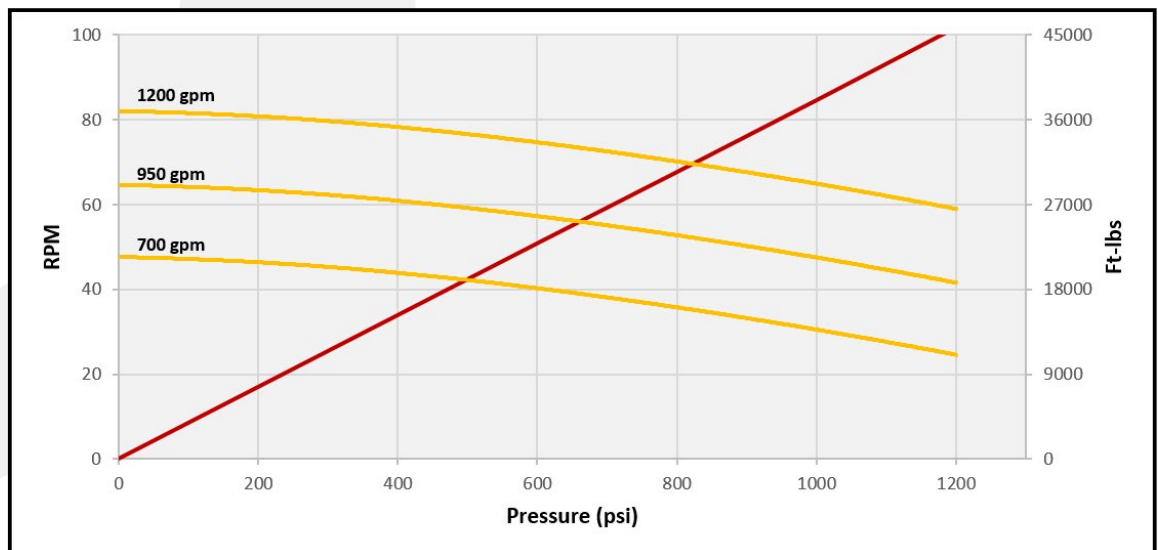
9-5/8" Mud Lube (D) 7/8 3.9

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	445" (11.30 m)
Weight	9,500 lbs (4,309 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	600 - 1,200 gpm (2,271 - 4,542 l/min)
Revolutions	0.068 rev/gal (0.018 rev/l)
Max Differential Pressure	880 psi (6,067 kPa)
Max Torque	33,750 ft-lbs (45,759 Nm)
Stall Differential Pressure	1320 psi (9,101 kPa)
Stall Torque	50,630 ft-lbs (68,645 Nm)
Torque Slope	38.4 ft-lbs/psi (7.551 Nm/kPa)
Off-Bottom Pressure	221 psi (1,523 kPa)

Specifications	Tool Size 9-5/8" (229 mm)
Hole Size	12-1/4" - 24" (305 mm - 610 mm)
Bit Box	6-5/8" & 7-5/8" REG
Mandrel Bore	2-1/2" (64 mm)
Maximum W.O.B. - Dynamic	160,000 lbs (71,172 daN)
Maximum W.O.B. - Static	450,000 lbs (200,170 daN)
Maximum Bit Overpull	600,000 lbs (266,893 daN)
Absolute Overpull	1,500,000 lbs (667,233 daN)
Bearing Section Torque Capacity	134,500 ft-lbs (182,357 Nm)
Bit to Bend Fixed	56-1/2" (1,435 mm)
Bit to Bend Adjustable	83" (2,108 mm)
U-Joint Torque Capacity	80,000 ft-lbs (108,465 Nm)



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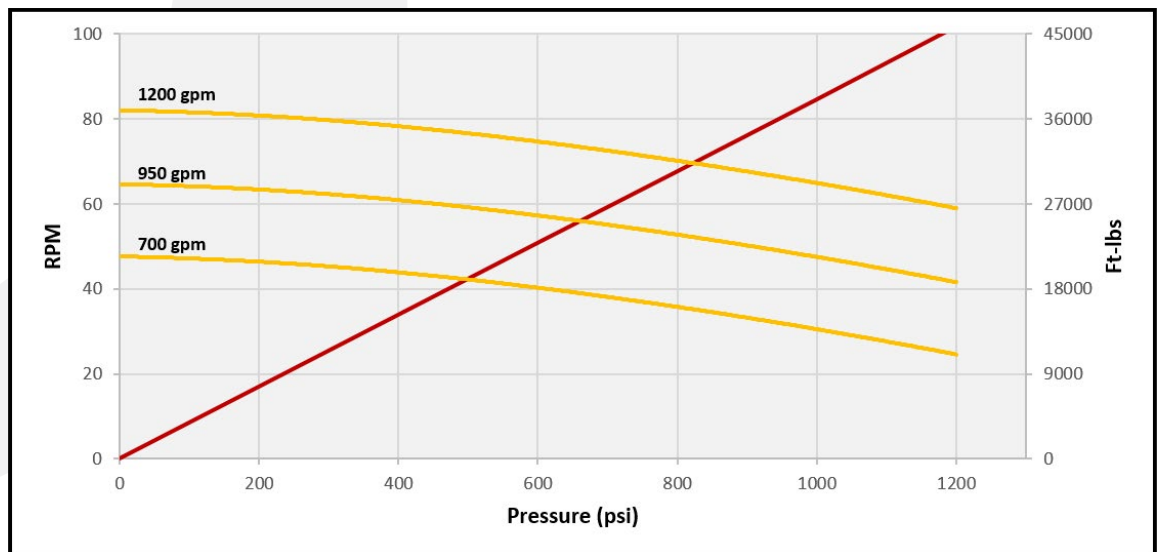
9-5/8" Oil Sealed 7/8 3.9

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	465" (11.81 m)
Weight	9,500 lbs (4,309 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	600 - 1,200 gpm (2,271 - 4,542 l/min)
Revolutions	0.068 rev/gal (0.018 rev/l)
Max Differential Pressure	880 psi (6,067 kPa)
Max Torque	33,750 ft-lbs (45,759 Nm)
Stall Differential Pressure	1320 psi (9,101 kPa)
Stall Torque	50,630 ft-lbs (68,645 Nm)
Torque Slope	38.4 ft-lbs/psi (7.551 Nm/kPa)
Off-Bottom Pressure	221 psi (1,523 kPa)

Specifications	Tool Size 9-5/8" (229 mm)
Hole Size	12-1/4" - 24" (305 mm - 610 mm)
Bit Box	6-5/8" & 7-5/8" REG
Mandrel Bore	3" (76 mm)
Maximum W.O.B. - Dynamic	160,000 lbs (71,172 daN)
Maximum W.O.B. - Static	430,000 lbs (191,274 daN)
Maximum Bit Overpull	600,000 lbs (266,893 daN)
Absolute Overpull	1,500,000 lbs (667,233 daN)
Bearing Section Torque Capacity	134,500 ft-lbs (182,357 Nm)
Bit to Bend Fixed	64-1/4" (1,632 mm)
Bit to Bend Adjustable	91-1/8" (2,311 mm)
U-Joint Torque Capacity	80,000 ft-lbs (108,465 Nm)



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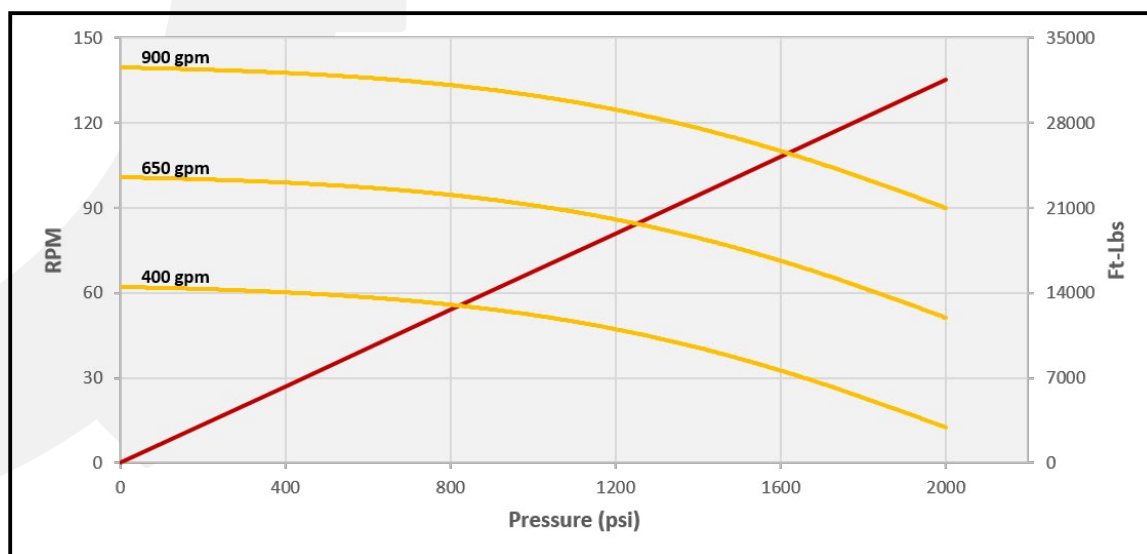
9-5/8" x 8" Mud Lube (D) 7/8 5.9

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	497" (12.49 m)
Weight	7,097 lbs (3,219 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	400-900 gpm (1,514- 3,407 l/min)
Revolutions	0.155 rev/gal (0.041 rev/l)
Max Differential Pressure	1390 psi (9,584 kPa)
Max Torque	21,870 ft-lbs (29,652 Nm)
Stall Differential Pressure	2190 psi (15,100 kPa)
Stall Torque	34,440 ft-lbs (46,694 Nm)
Torque Slope	15.7 ft-lbs/psi (3.087 Nm/kPa)
Off-Bottom Pressure	184 psi (1,269 kPa)

Specifications	Tool Size 9-5/8" (229 mm)
Hole Size	12-1/4" - 24" (305 mm - 610 mm)
Bit Box	6-5/8" & 7-5/8" REG
Mandrel Bore	2-1/2" (64 mm)
Maximum W.O.B. - Dynamic	160,000 lbs (71,172 daN)
Maximum W.O.B. - Static	450,000 lbs (200,170 daN)
Maximum Bit Overpull	600,000 lbs (266,893 daN)
Absolute Overpull	1,500,000 lbs (667,233 daN)
Bearing Section Torque Capacity	134,500 ft-lbs (182,357 Nm)
Bit to Bend Fixed	56-1/2" (1,435 mm)
Bit to Bend Adjustable	83" (2,108 mm)
U-Joint Torque Capacity	80,000 ft-lbs (108,465 Nm)



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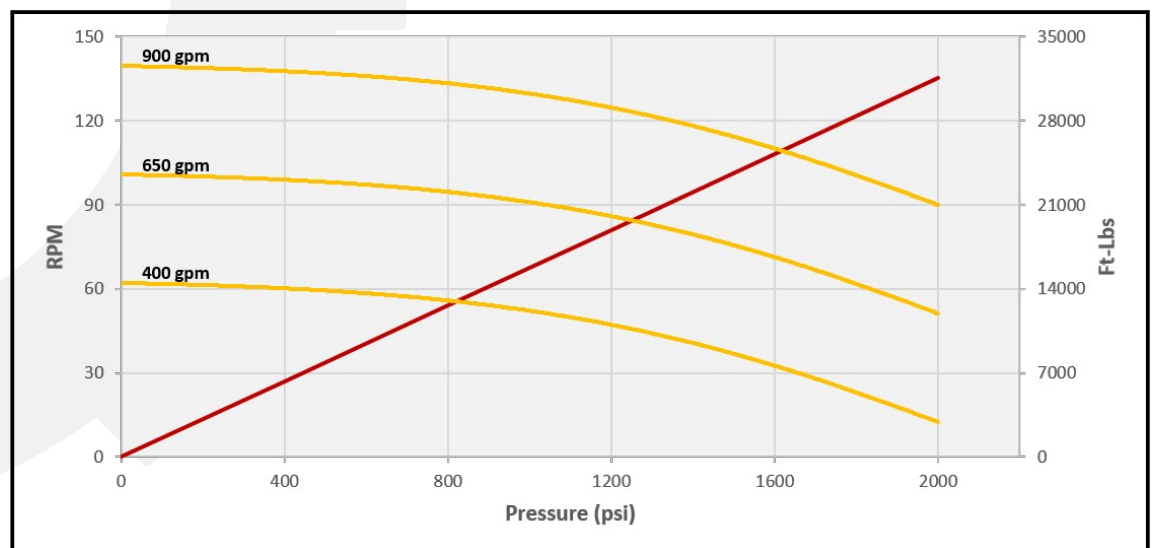


9-5/8" x 8" Oil Sealed 7/8 5.9 MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	506" (12.86 m)
Weight	7,500 lbs (3,402 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	400-900 gpm (1,514- 3,407 l/min)
Revolutions	0.155 rev/gal (0.041 rev/l)
Max Differential Pressure	1390 psi (9,584 kPa)
Max Torque	21,870 ft-lbs (29,652 Nm)
Stall Differential Pressure	2190 psi (15,100 kPa)
Stall Torque	34,440 ft-lbs (46,694 Nm)
Torque Slope	15.7 ft-lbs/psi (3.087 Nm/kPa)
Off-Bottom Pressure	184 psi (1,269 kPa)

Specifications	Tool Size 9-5/8" (229 mm)
Hole Size	12-1/4" - 24" (305 mm - 610 mm)
Bit Box	6-5/8" & 7-5/8" REG
Mandrel Bore	3" (76 mm)
Maximum W.O.B. - Dynamic	160,000 lbs (71,172 daN)
Maximum W.O.B. - Static	430,000 lbs (191,274 daN)
Maximum Bit Overpull	600,000 lbs (266,893 daN)
Absolute Overpull	1,500,000 lbs (667,233 daN)
Bearing Section Torque Capacity	134,500 ft-lbs (182,357 Nm)
Bit to Bend Fixed	64-1/4" (1,632 mm)
Bit to Bend Adjustable	91-1/8" (2,311 mm)
U-Joint Torque Capacity	80,000 ft-lbs (108,465 Nm)



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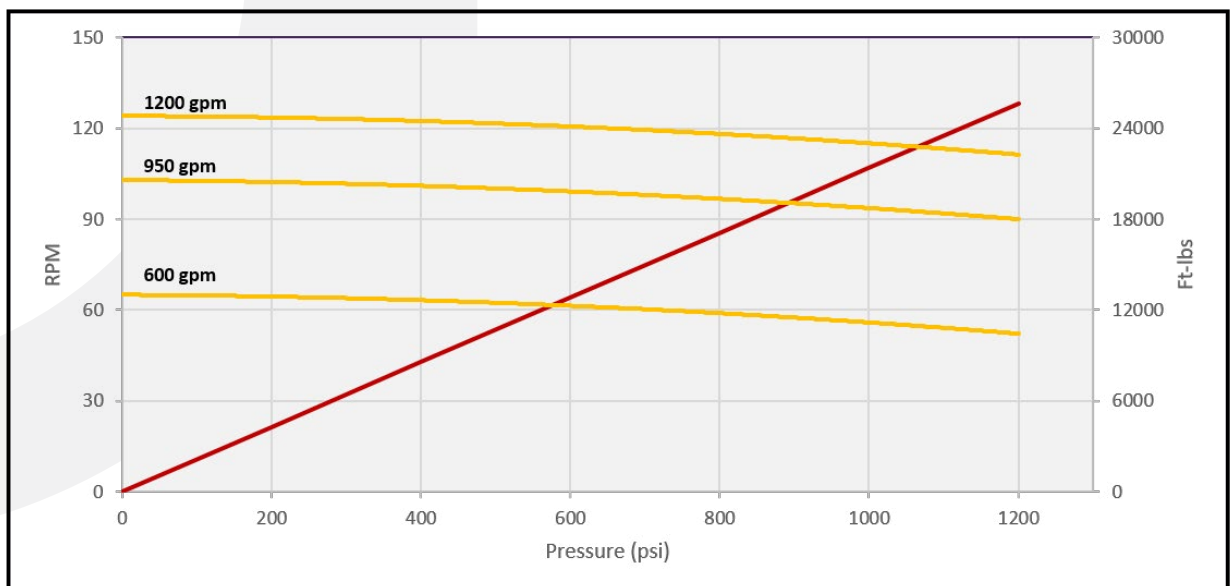
9-5/8" Mud Lube (D) 5/6 4.0

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	395" (10.03 m)
Weight	9,011 lbs (4,087 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	600 - 1,200 gpm (2,271 - 4,542 l/min)
Revolutions	.108 rev/gal (0.029 rev/l)
Max Differential Pressure	900 psi (6,205 kPa)
Max Torque	19,240 ft-lbs (26,086 Nm)
Stall Differential Pressure	1350 psi (9,308 kPa)
Stall Torque	28,850 ft-lbs (39,115 Nm)
Torque Slope	21.37 ft-lbs/psi (4.202 Nm/kPa)
Off-Bottom Pressure	238 psi (1,641 kPa)

Specifications	Tool Size 9-5/8" (229 mm)
Hole Size	12-1/4" - 24" (305 mm - 610 mm)
Bit Box	6-5/8" & 7-5/8" REG
Mandrel Bore	2-1/2" (64 mm)
Maximum W.O.B. - Dynamic	160,000 lbs (71,172 daN)
Maximum W.O.B. - Static	450,000 lbs (200,170 daN)
Maximum Bit Overpull	600,000 lbs (266,893 daN)
Absolute Overpull	1,500,000 lbs (667,233 daN)
Bearing Section Torque Capacity	134,500 ft-lbs (182,357 Nm)
Bit to Bend Fixed	56-1/2" (1,435 mm)
Bit to Bend Adjustable	83" (2,108 mm)
U-Joint Torque Capacity	80,000 ft-lbs (108,465 Nm)



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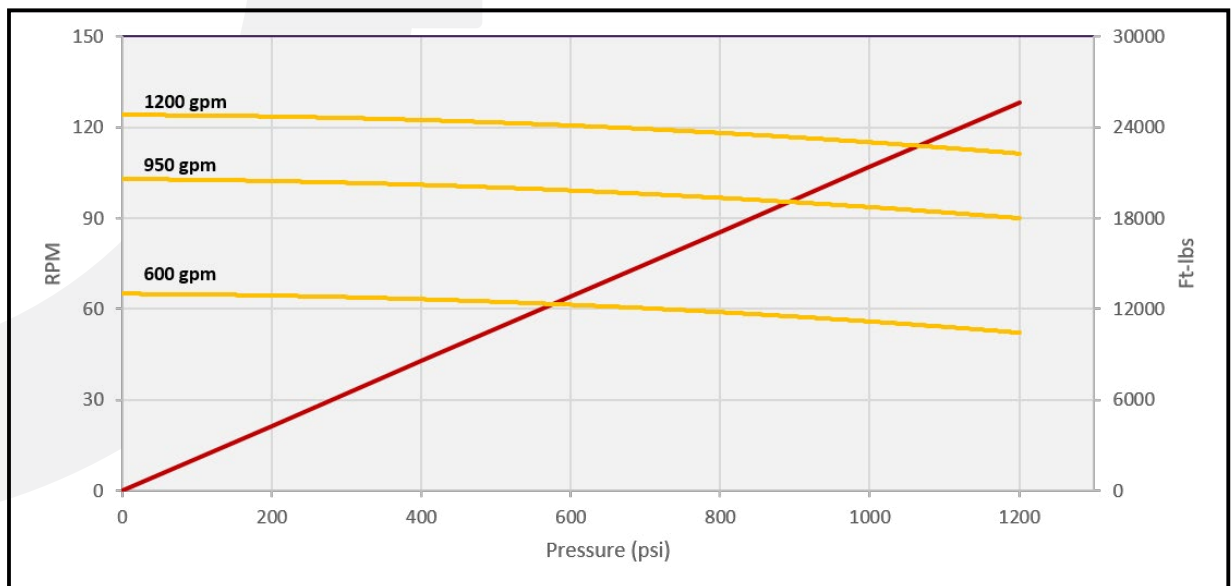
9-5/8" Oil Sealed 5/6 4.0

MOTOR SPECIFICATIONS



Physical Details	
Nominal Length	415" (10.54 m)
Weight	9,011 lbs (4,087 kg)
Performance Details	
Bit Speed (No load rpm)	
Flow Range	600 - 1,200 gpm (2,271 - 4,542 l/min)
Revolutions	.108 rev/gal (0.029 rev/l)
Max Differential Pressure	900 psi (6,205 kPa)
Max Torque	19,240 ft-lbs (26,086 Nm)
Stall Differential Pressure	1350 psi (9,308 kPa)
Stall Torque	28,850 ft-lbs (39,115 Nm)
Torque Slope	21.37 ft-lbs/psi (4.202 Nm/kPa)
Off-Bottom Pressure	238 psi (1,641 kPa)

Specifications	Tool Size 9-5/8" (229 mm)
Hole Size	12-1/4" - 24" (305 mm - 610 mm)
Bit Box	6-5/8" & 7-5/8" REG
Mandrel Bore	2-1/2" (64 mm)
Maximum W.O.B. - Dynamic	160,000 lbs (71,172 daN)
Maximum W.O.B. - Static	450,000 lbs (200,170 daN)
Maximum Bit Overpull	600,000 lbs (266,893 daN)
Absolute Overpull	1,500,000 lbs (667,233 daN)
Bearing Section Torque Capacity	134,500 ft-lbs (182,357 Nm)
Bit to Bend Fixed	56-1/2" (1,435 mm)
Bit to Bend Adjustable	83" (2,108 mm)
U-Joint Torque Capacity	80,000 ft-lbs (108,465 Nm)



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