



# MOTOR SPECIFICATIONS



**TURBO**SCOUT®

**CAM**SCOUT®

**TURBO**SCOUT®DS

**ROTARY**STEERABLE**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



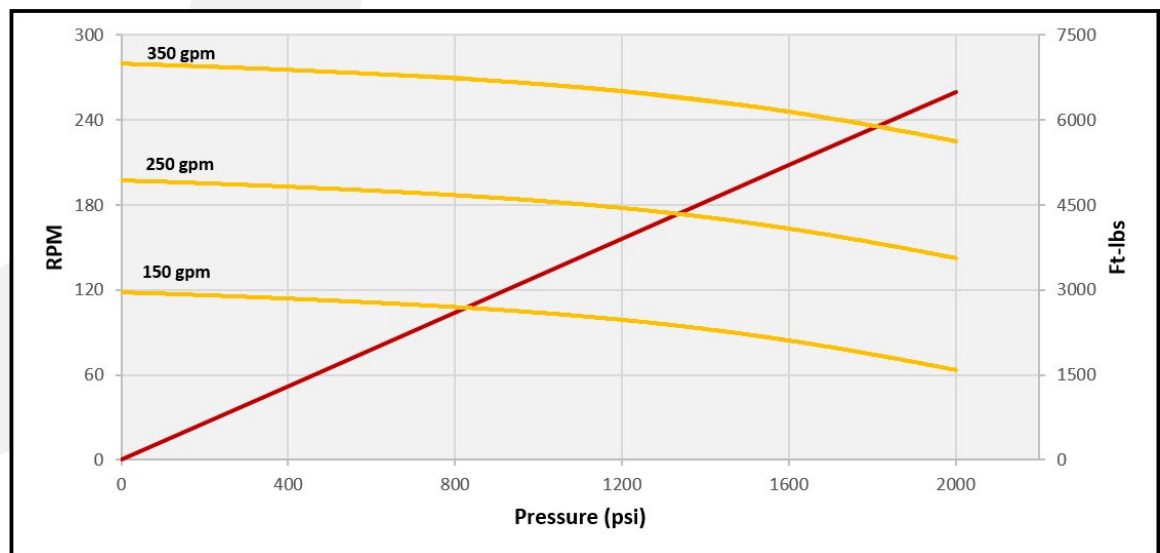
# 5" Mud Lube (B) 6/7 8.0

## MOTOR SPECIFICATIONS



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

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



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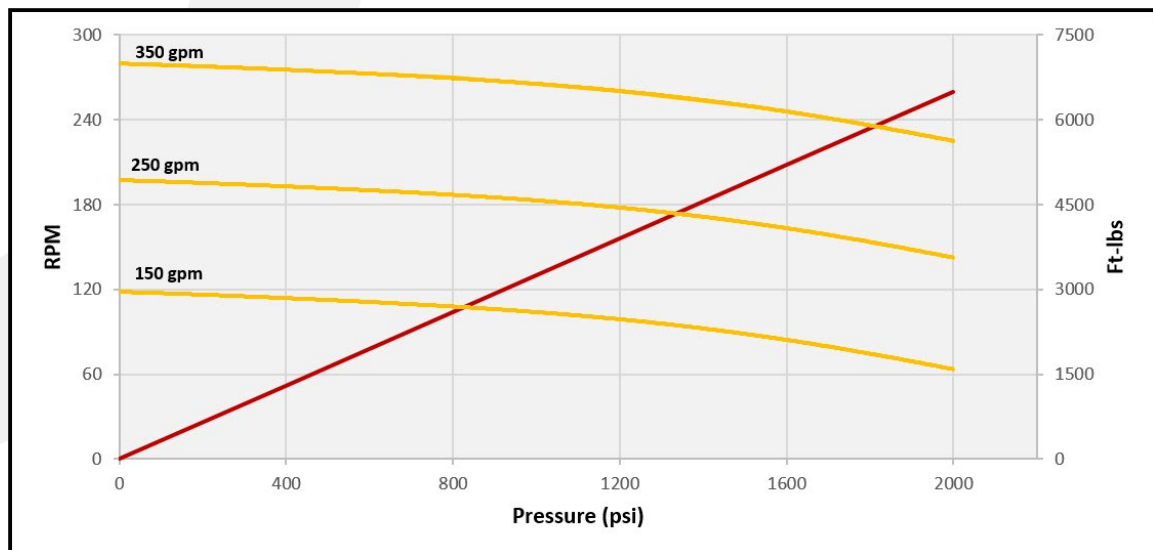
# 5" Mud Lube (D) 6/7 8.0

## MOTOR SPECIFICATIONS



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

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



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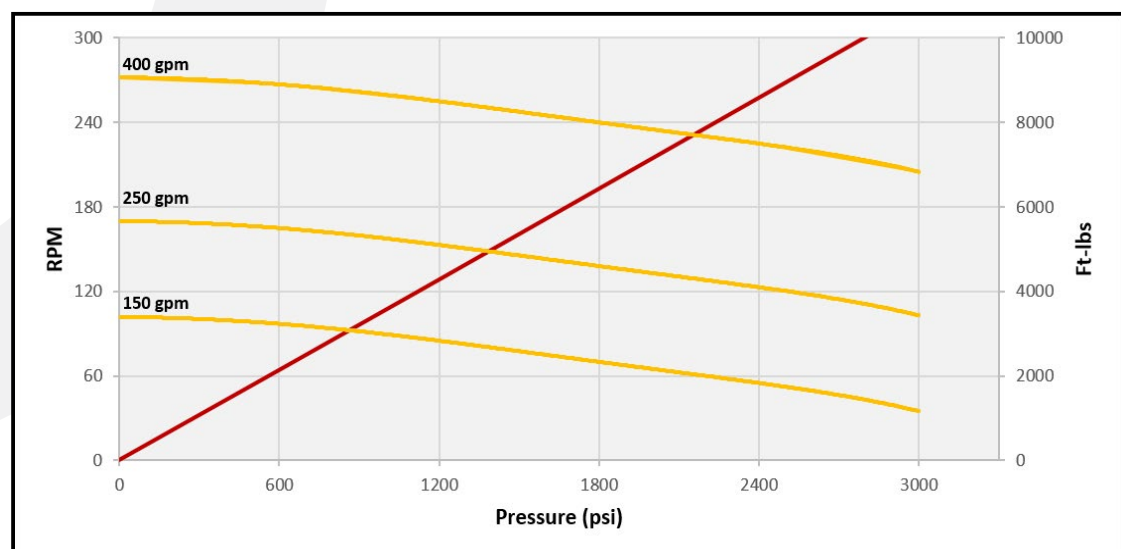
# 5" Mud Lube (B) 6/7 8.8

## MOTOR SPECIFICATIONS



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

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



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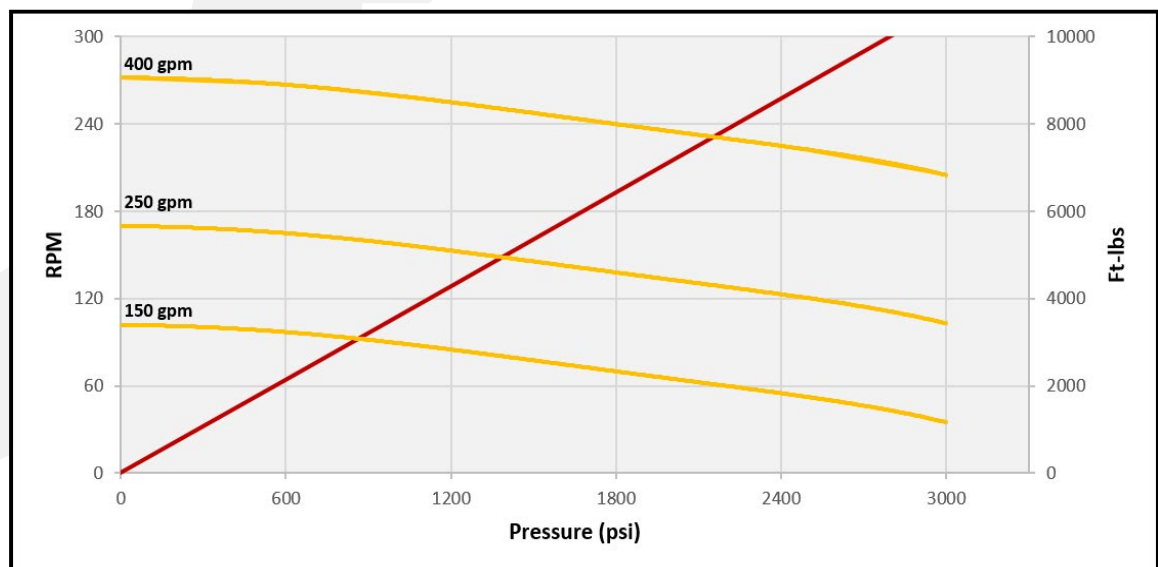
# 5" Mud Lube (D) 6/7 8.8

## MOTOR SPECIFICATIONS



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

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



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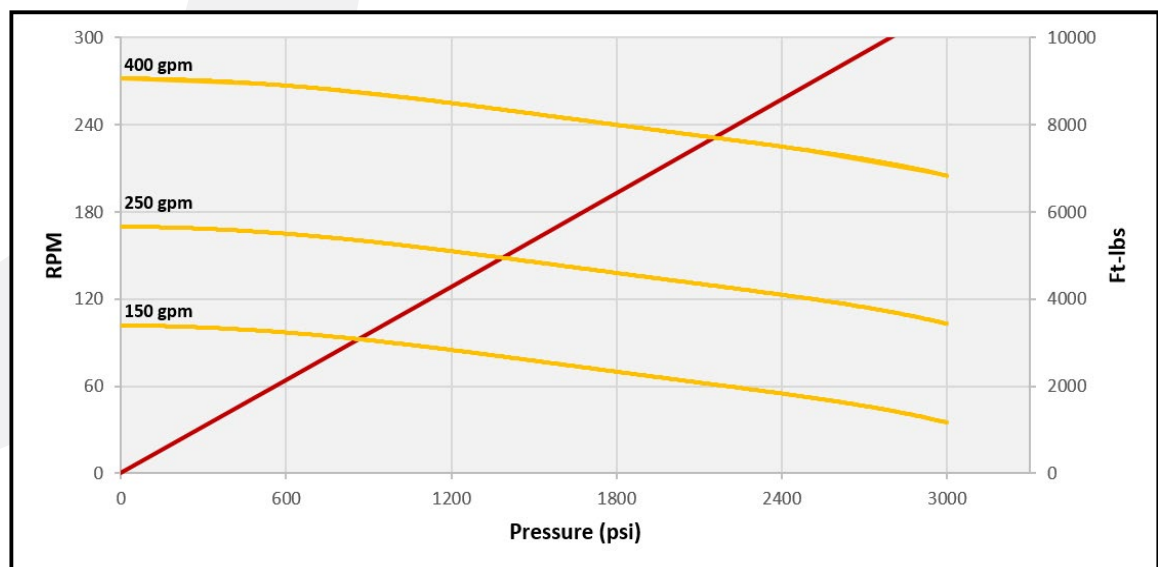


# 5" Mud Lube (B) 6/7 8.8 Turbo Scout® DS MOTOR SPECIFICATIONS



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

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



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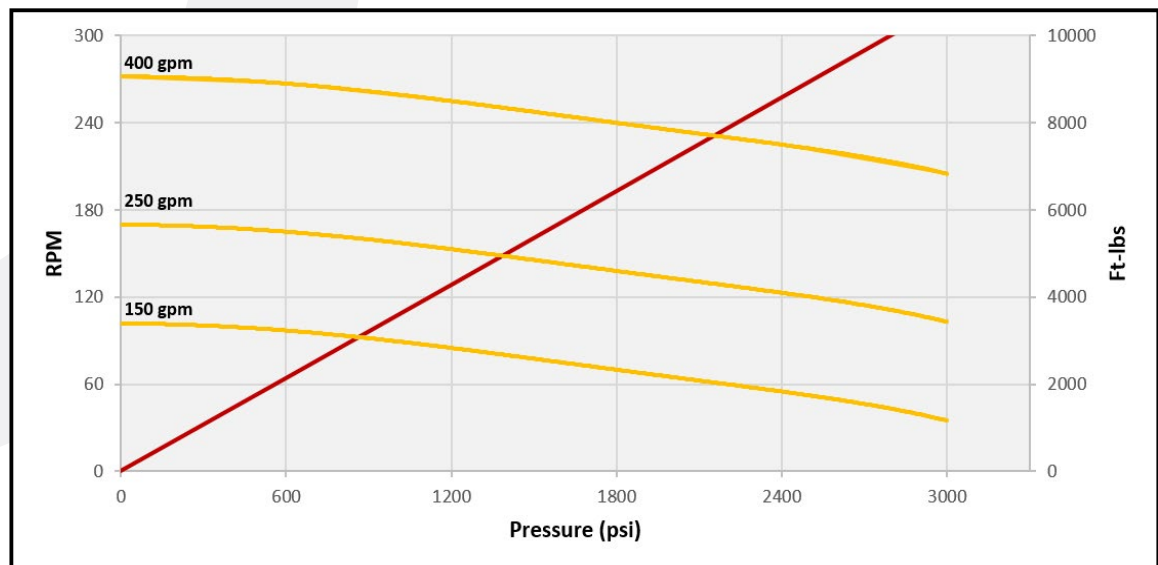


# 5" Mud Lube (D) 6/7 8.8 Turbo Scout® DS MOTOR SPECIFICATIONS



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

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



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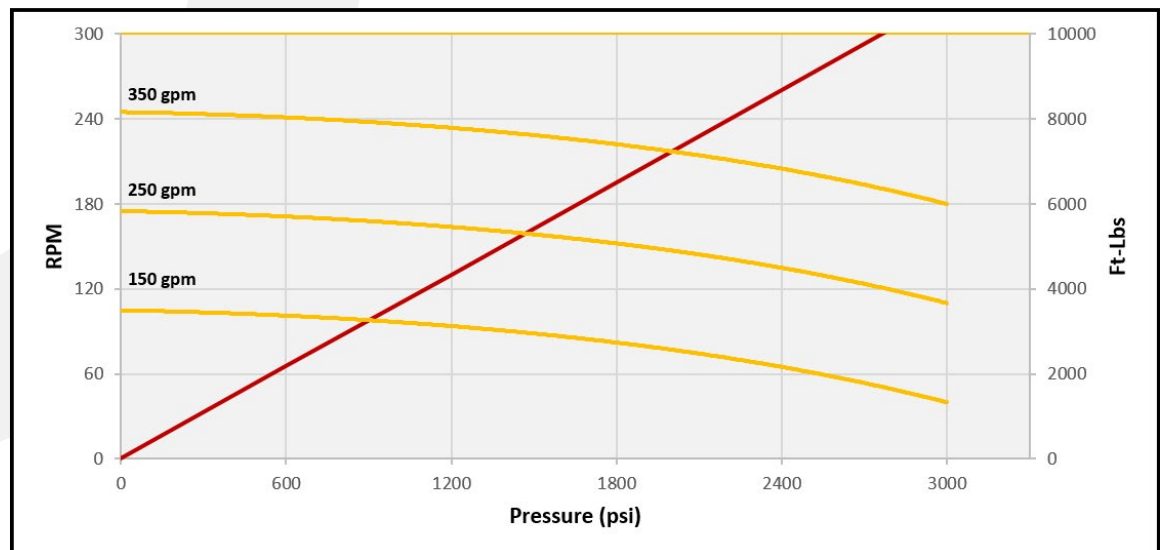
# 5" Mud Lube (B) 7/8 8.4

## MOTOR SPECIFICATIONS



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

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



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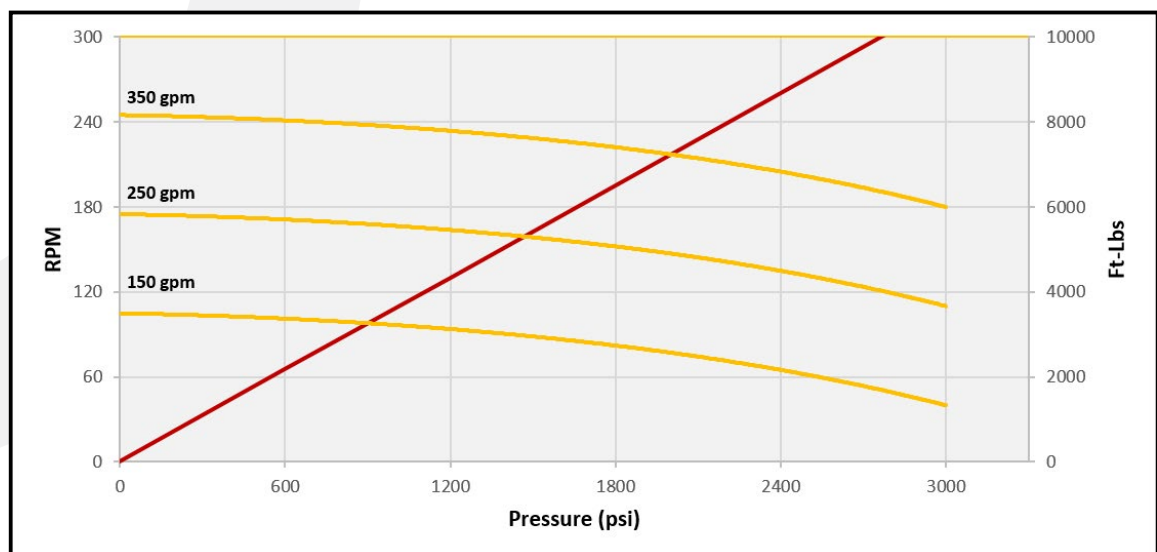
# 5" Mud Lube (D) 7/8 8.4

## MOTOR SPECIFICATIONS



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

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



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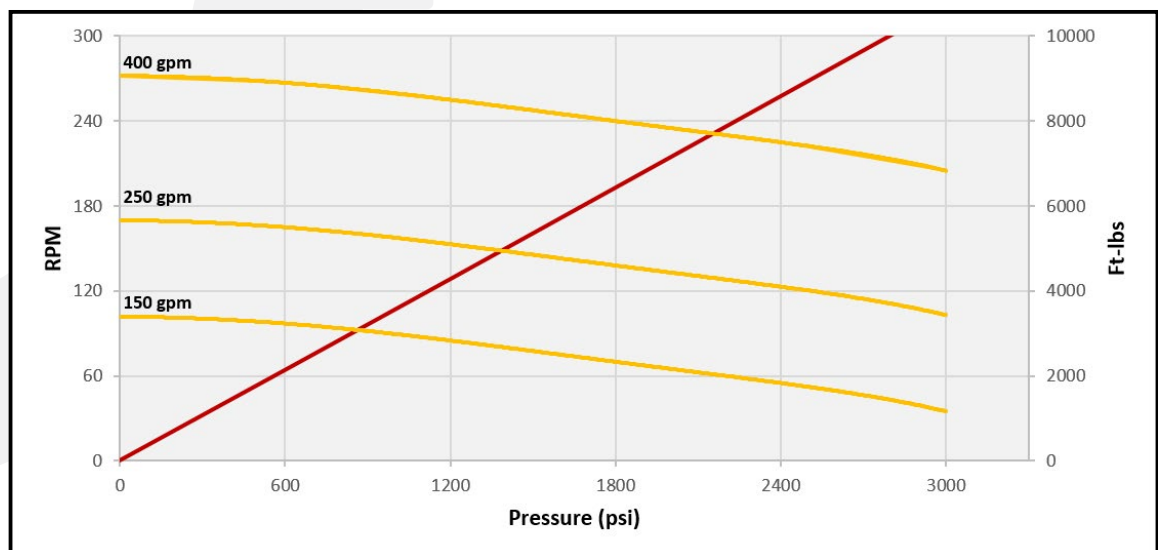
# 5-3/4" Mud Lube (B) 6/7 8.8

## MOTOR SPECIFICATIONS



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

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



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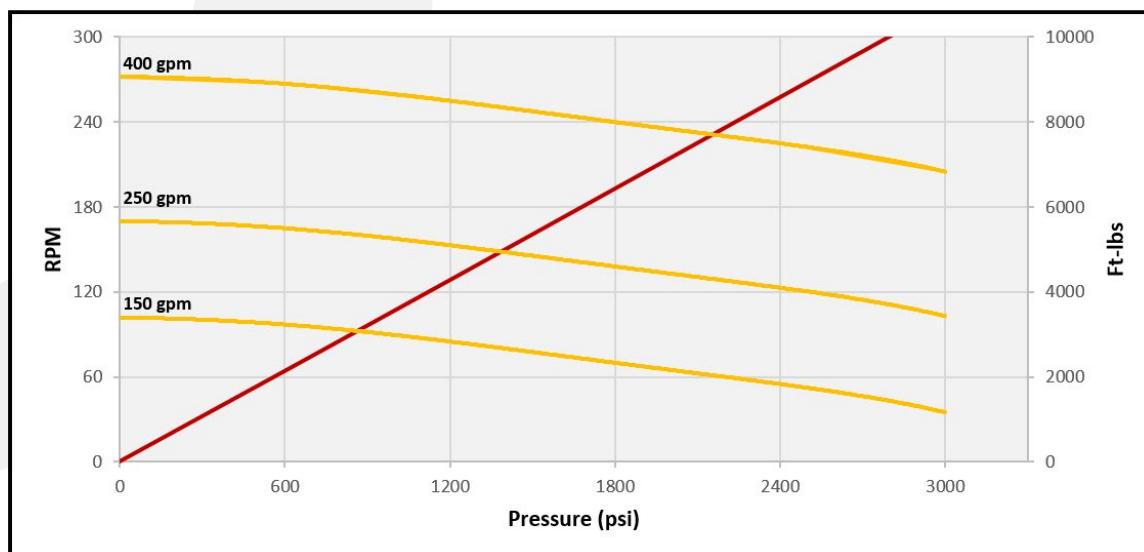


# 5-3/4" Mud Lube (B) 6/7 8.8 Turbo Scout® DS MOTOR SPECIFICATIONS



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

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



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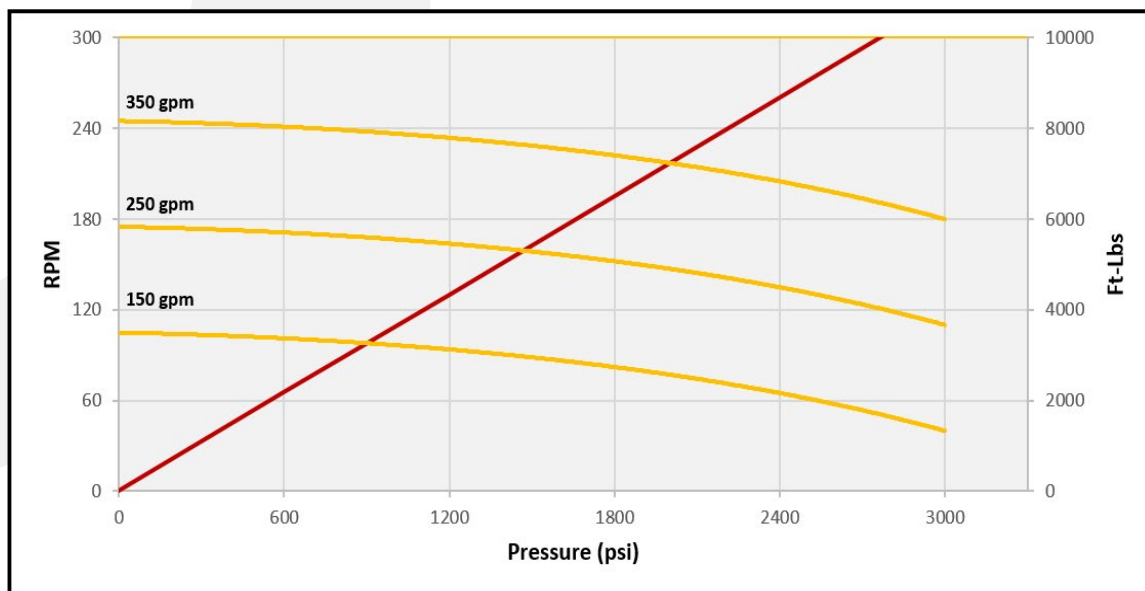
# 5-3/4" Mud Lube (B) 7/8 8.2

## MOTOR SPECIFICATIONS



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

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



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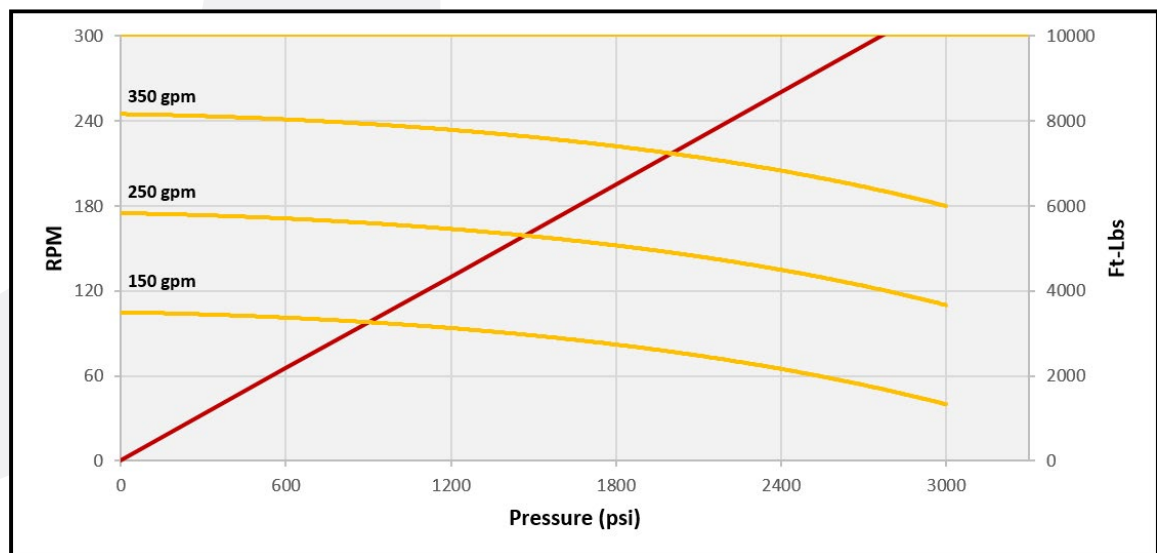
# 5-3/4" Mud Lube (B) 7/8 8.4

## MOTOR SPECIFICATIONS



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

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



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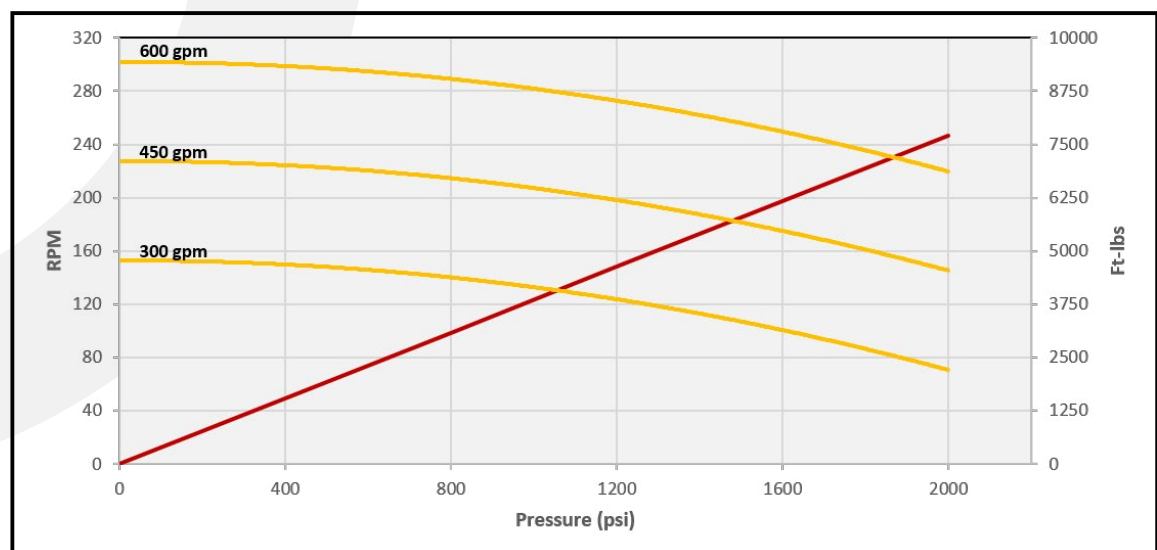


# 6-1/2" Mud Lube (B) 4/5 7.0 MOTOR SPECIFICATIONS



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

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



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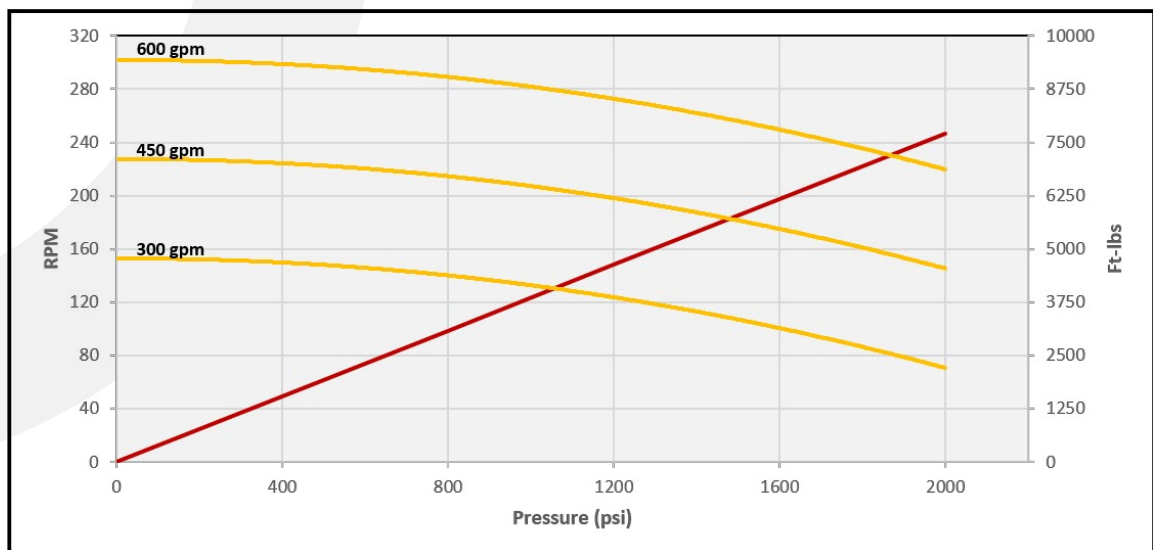


# 6-1/2" Mud Lube (D) 4/5 7.0 MOTOR SPECIFICATIONS



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

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



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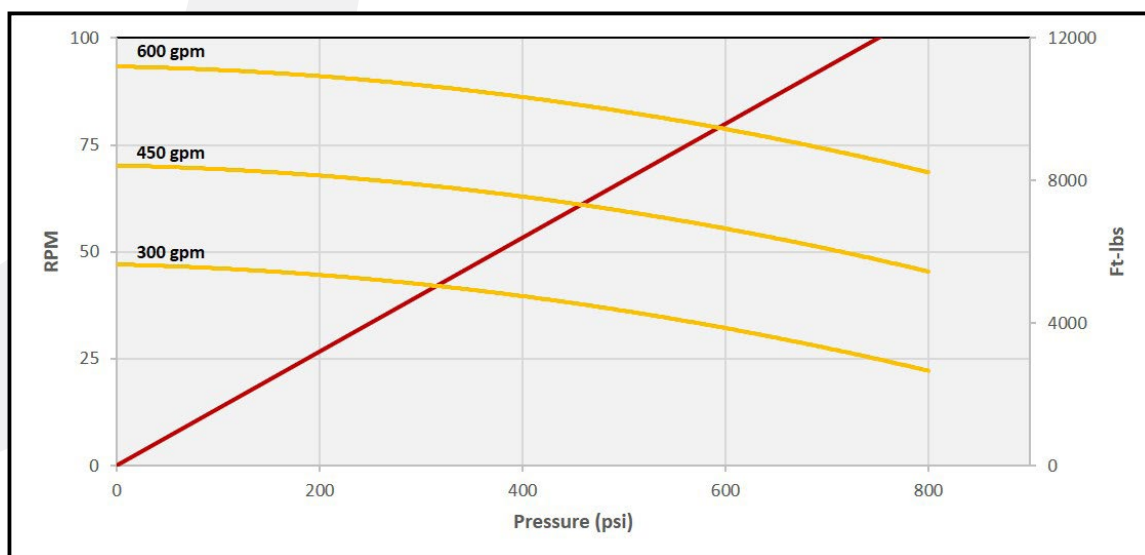


# 6-1/2" Mud Lube (B) 7/8 3.0 Slow MOTOR SPECIFICATIONS



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

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



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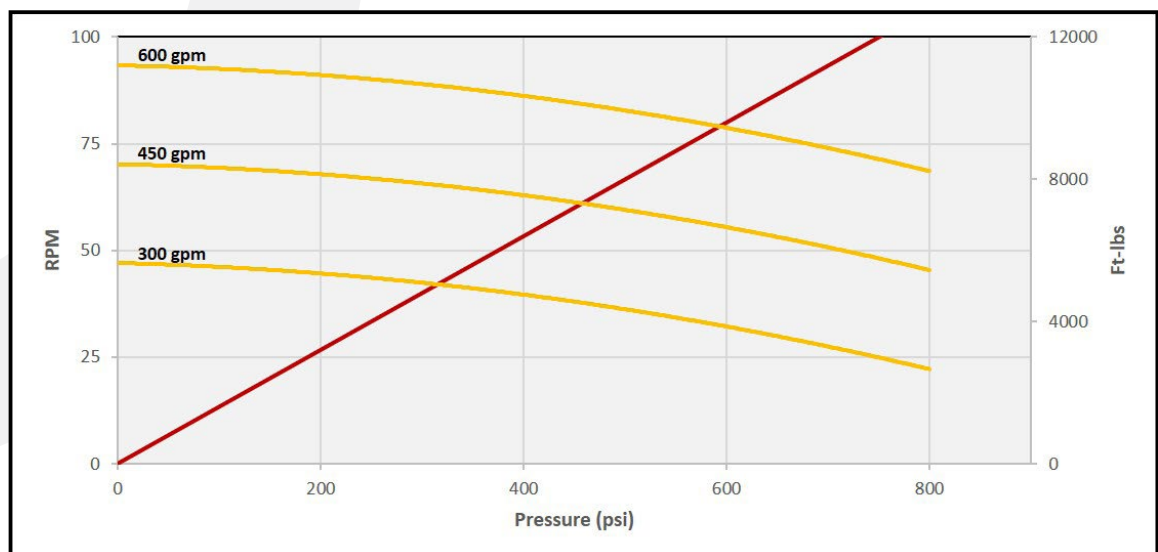


# 6-1/2" Mud Lube (D) 7/8 3.0 Slow MOTOR SPECIFICATIONS



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

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



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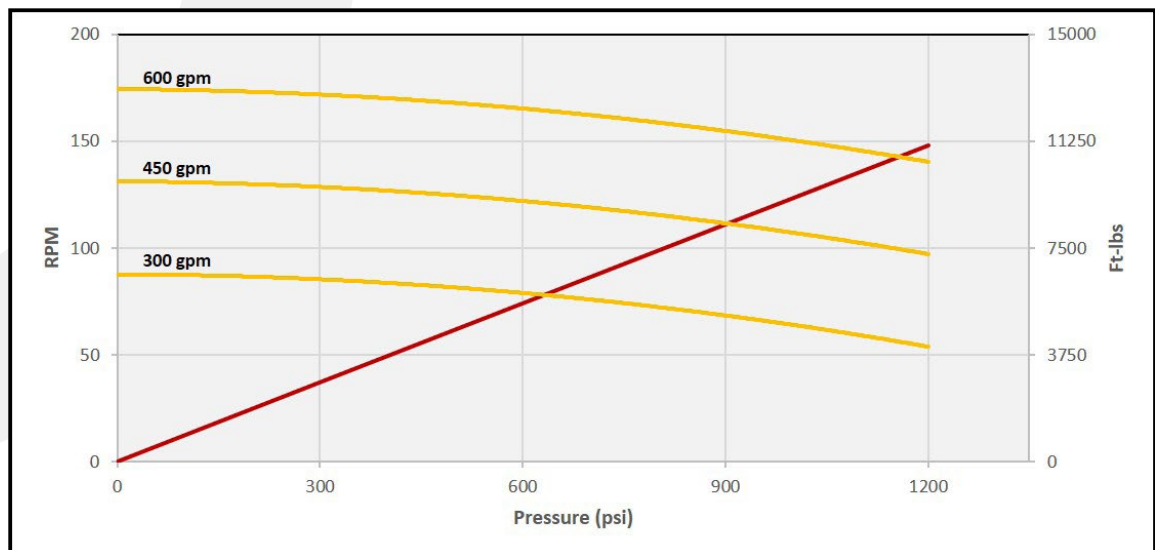


# 6-1/2" Mud Lube (B) 7/8 5.0 MOTOR SPECIFICATIONS



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

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



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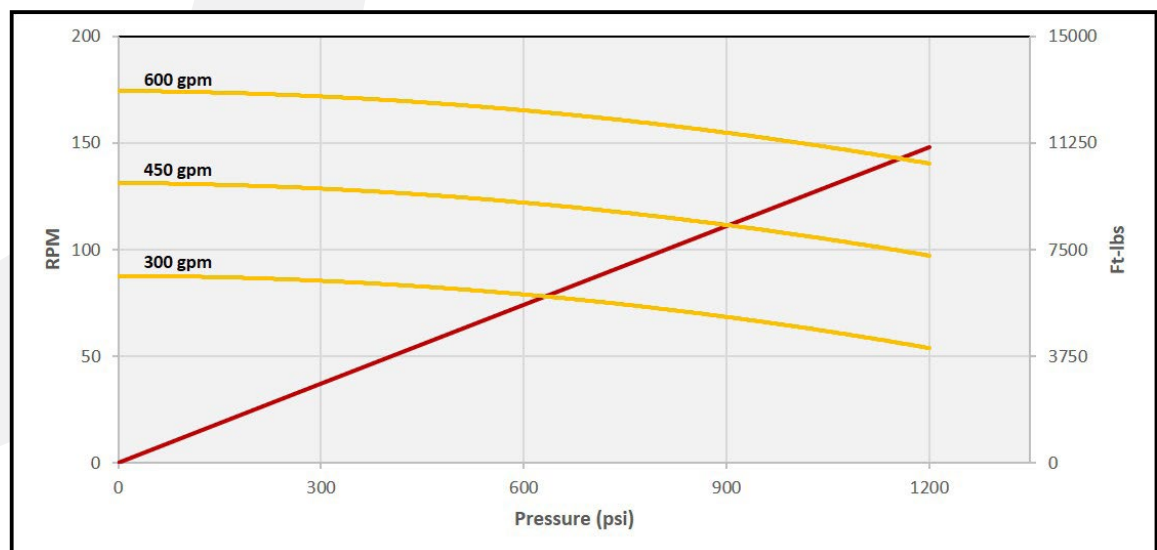
# 6-1/2" Mud Lube (D) 7/8 5.0

## MOTOR SPECIFICATIONS



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

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



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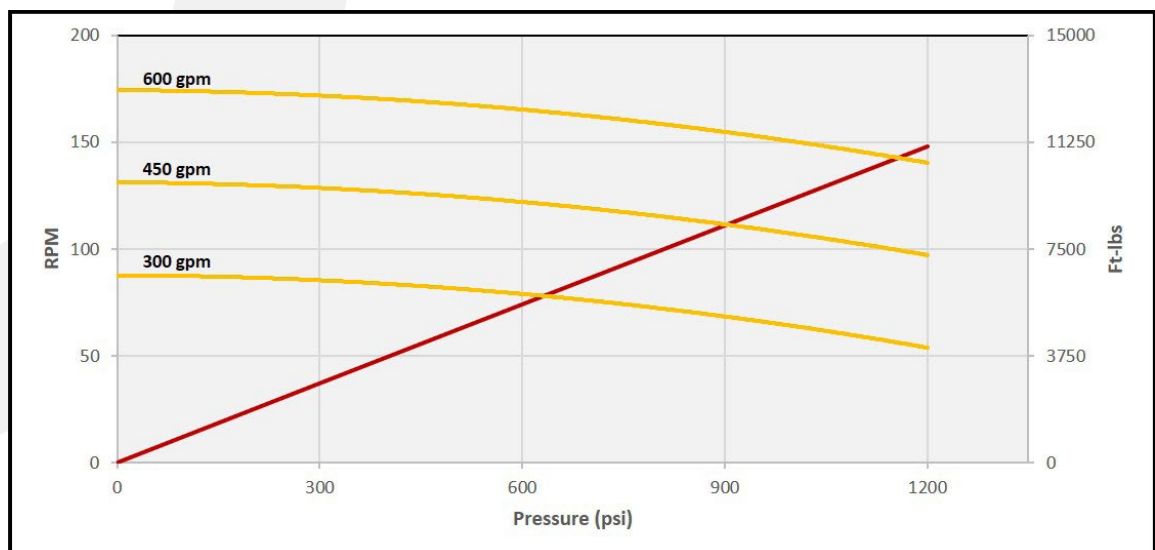


# 6-1/2" Mud Lube (B) 7/8 5.0 Turbo Scout®DS MOTOR SPECIFICATIONS



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

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



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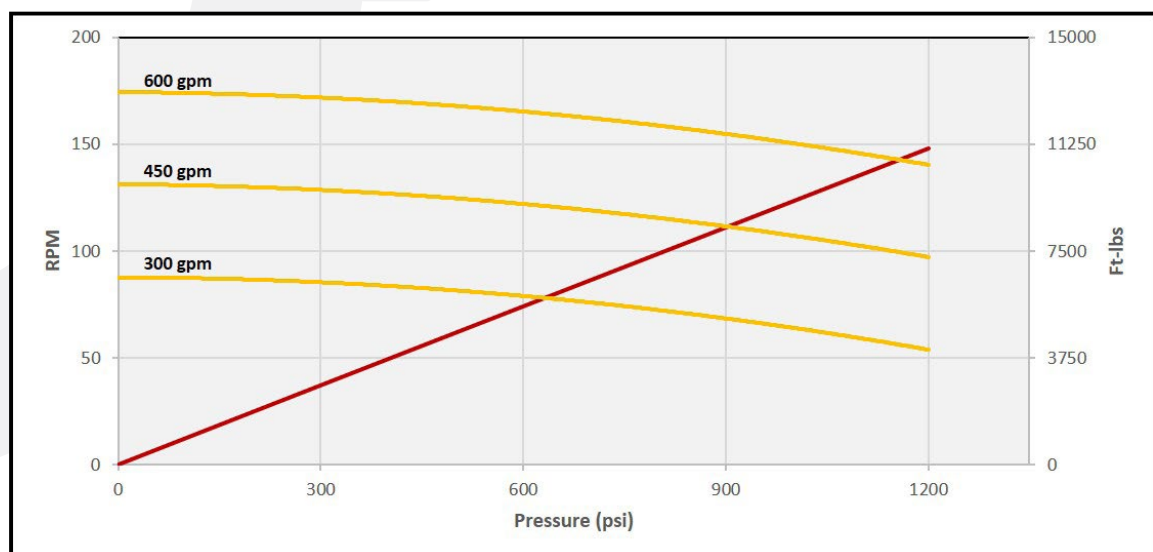


# 6-1/2" Mud Lube (D) 7/8 5.0 Turbo Scout® DS MOTOR SPECIFICATIONS



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

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



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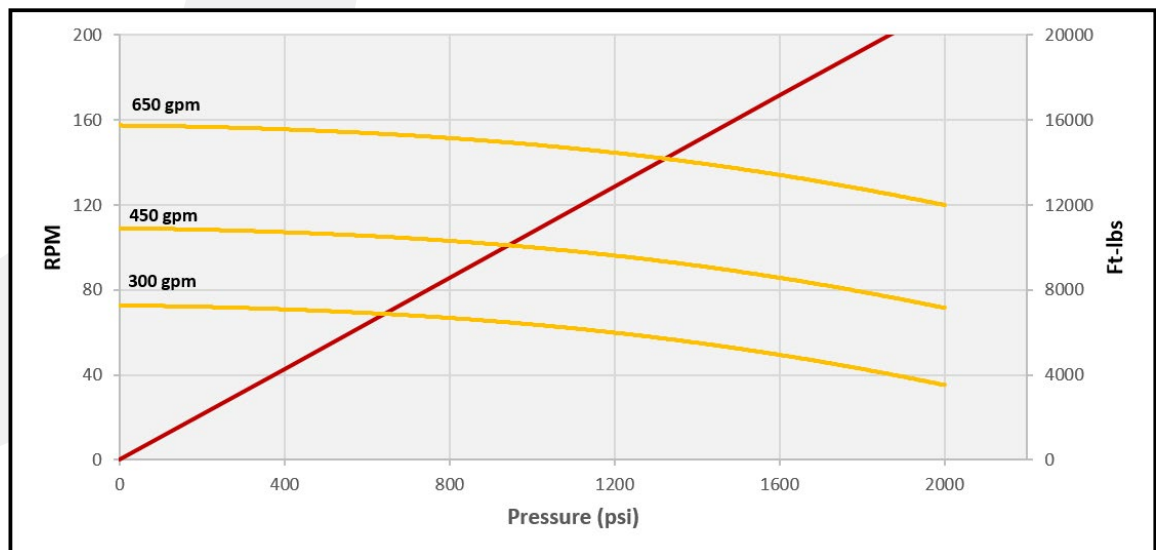
# 6-1/2" Mud Lube (B) 7/8 5.7

## MOTOR SPECIFICATIONS



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

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



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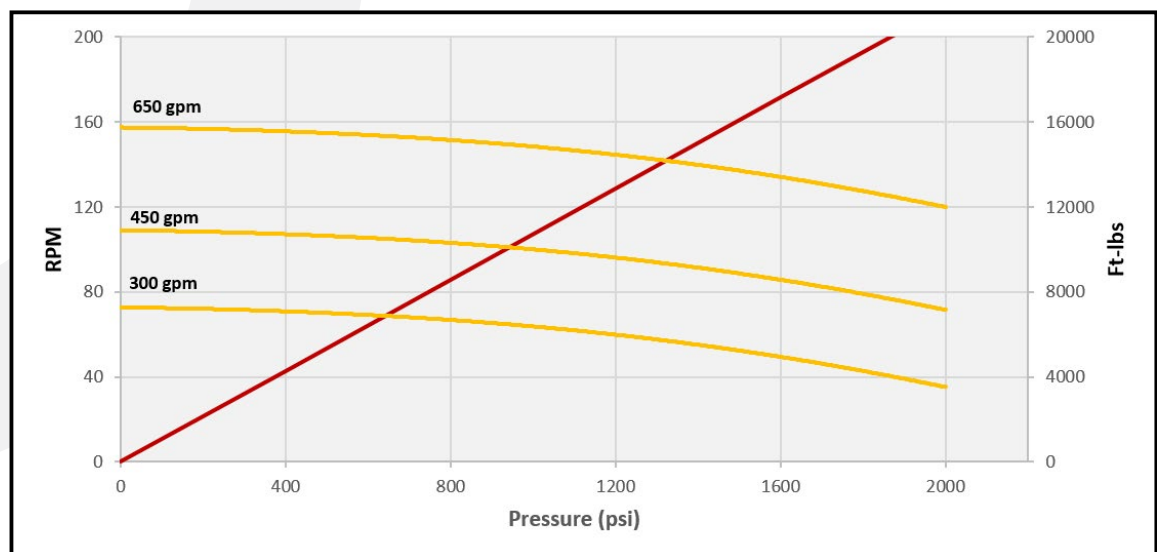
# 6-1/2" Mud Lube (D) 7/8 5.7

## MOTOR SPECIFICATIONS



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

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



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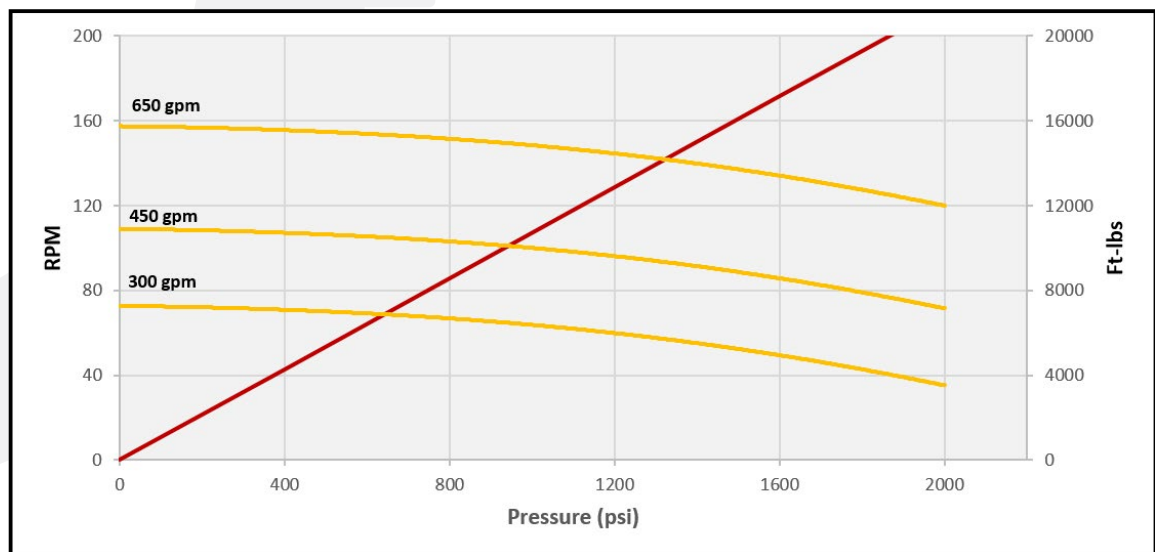


# 6-1/2" Mud Lube (B) 7/8 5.7 Turo Scout®DS MOTOR SPECIFICATIONS



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

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



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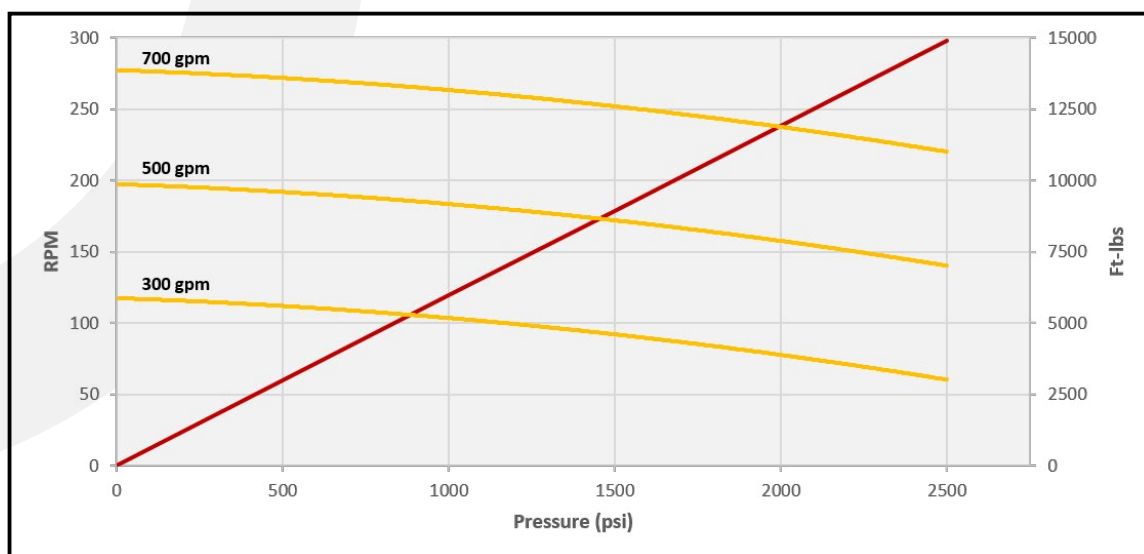
# 7-1/8" Mud Lube (B) 5/6 9.4

## MOTOR SPECIFICATIONS



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

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



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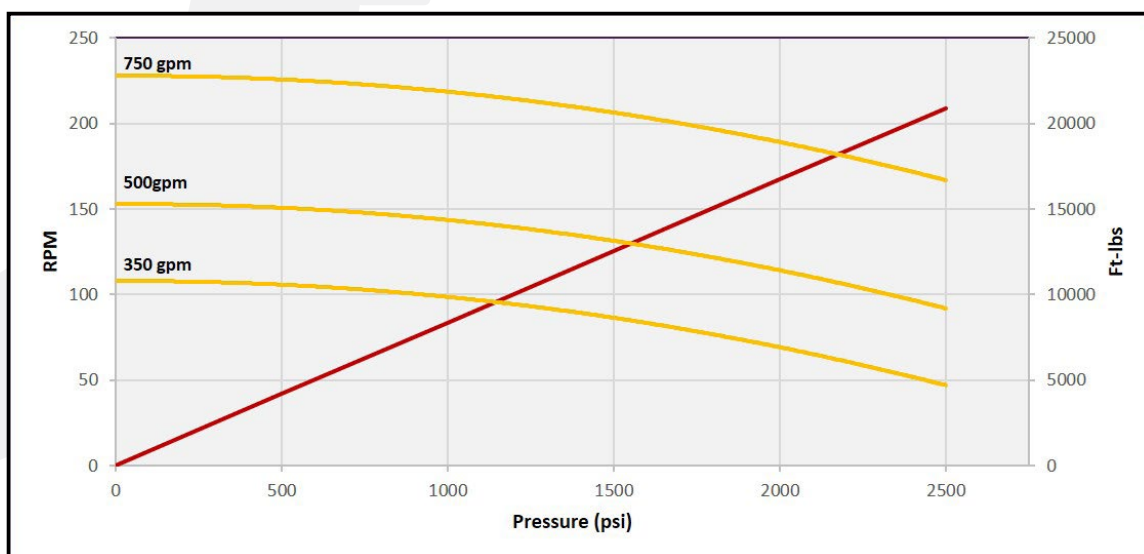
# 7-1/8" Mud Lube (B) 6/7 8.4

## MOTOR SPECIFICATIONS



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

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



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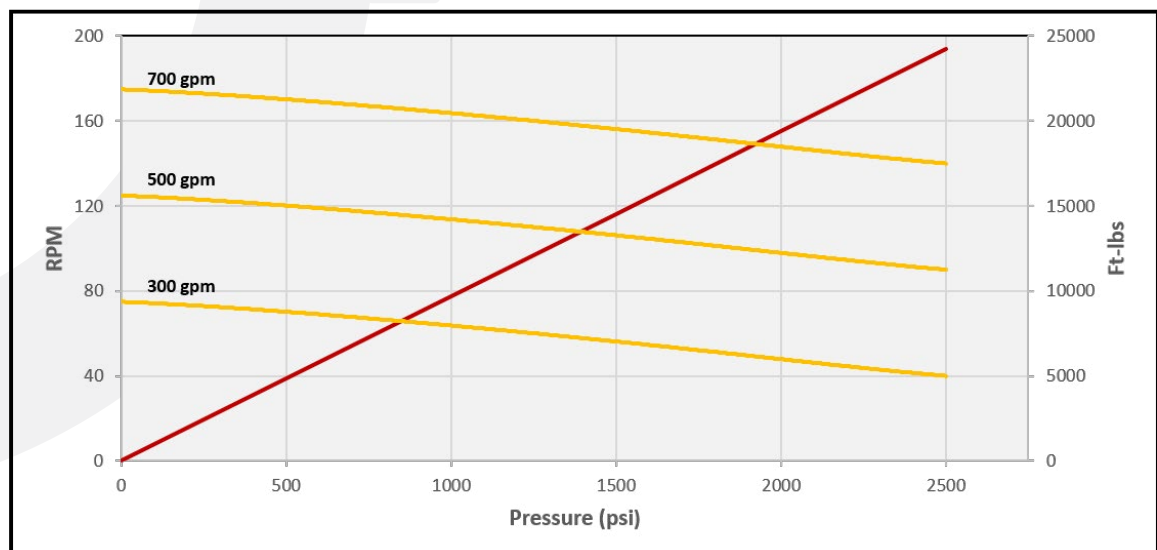
# 7-1/8" Mud Lube (B) 7/8 6.9

## MOTOR SPECIFICATIONS



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

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



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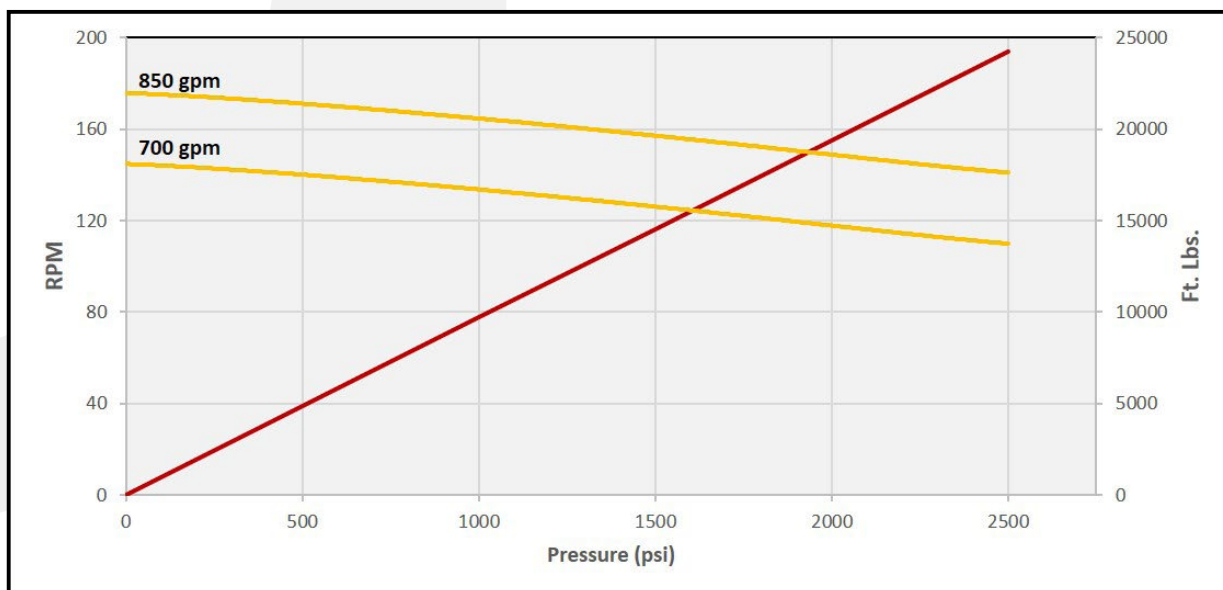
# 7 1/8" Mud Lube .21 RPG

## MOTOR SPECIFICATIONS



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

| Specifications                  | Tool Size<br>7-1/8"<br>(181 mm)      |
|---------------------------------|--------------------------------------|
| Hole Size                       | 8-1/2" - 10-5/8"<br>(216 mm - 254mm) |
| Bit Box                         | 6-5/8" REG                           |
| Mandrel Bore                    | 1-1/2"<br>(38 mm)                    |
| Maximum W.O.B. - Dynamic        | 58,000 lbs<br>(25,800 daN)           |
| Maximum W.O.B. - Static         | 164,000 lbs<br>(72,951 daN)          |
| Maximum Bit Overpull            | 202,000 lbs<br>(89,854 daN)          |
| Absolute Overpull               | 865,000 lbs<br>(384,771 daN)         |
| Bearing Section Torque Capacity | 43,000 ft-lbs<br>(58,300 Nm)         |
| Bit to Bend Fixed               | 52"<br>(1,321 mm)                    |
| Bit to Bend Adjustable          | 73-1/2"<br>(2,159 mm)                |
| U-Joint Torque Capacity         | 40,000 ft-lbs<br>(54,233 Nm)         |



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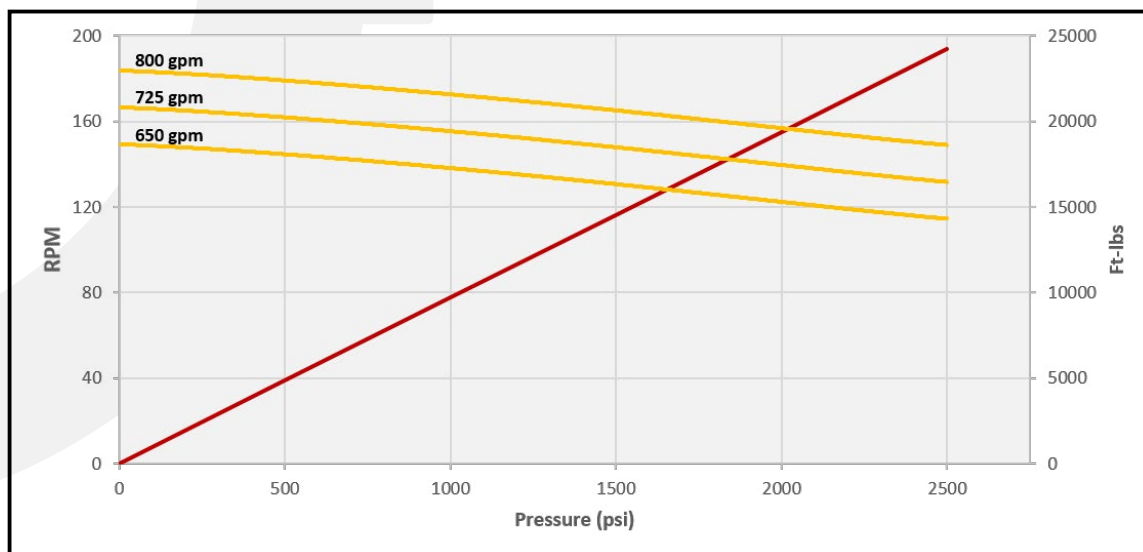
# 7 1/8" Mud Lube .23 RPG

## MOTOR SPECIFICATIONS



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

| Specifications                  | Tool Size<br>7-1/8"<br>(181 mm)       |
|---------------------------------|---------------------------------------|
| Hole Size                       | 8-1/2" - 10-5/8"<br>(216 mm - 254 mm) |
| Bit Box                         | 6-5/8" REG                            |
| Mandrel Bore                    | 1-1/2"<br>(38 mm)                     |
| Maximum W.O.B. - Dynamic        | 58,000 lbs<br>(25,800 daN)            |
| Maximum W.O.B. - Static         | 164,000 lbs<br>(72,951 daN)           |
| Maximum Bit Overpull            | 202,000 lbs<br>(89,854 daN)           |
| Absolute Overpull               | 865,000 lbs<br>(384,771 daN)          |
| Bearing Section Torque Capacity | 43,000 ft-lbs<br>(58,300 Nm)          |
| Bit to Bend Fixed               | 52"<br>(1,321 mm)                     |
| Bit to Bend Adjustable          | 73-1/4"<br>(1,860 mm)                 |
| U-Joint Torque Capacity         | 40,000 ft-lbs<br>(54,233 Nm)          |



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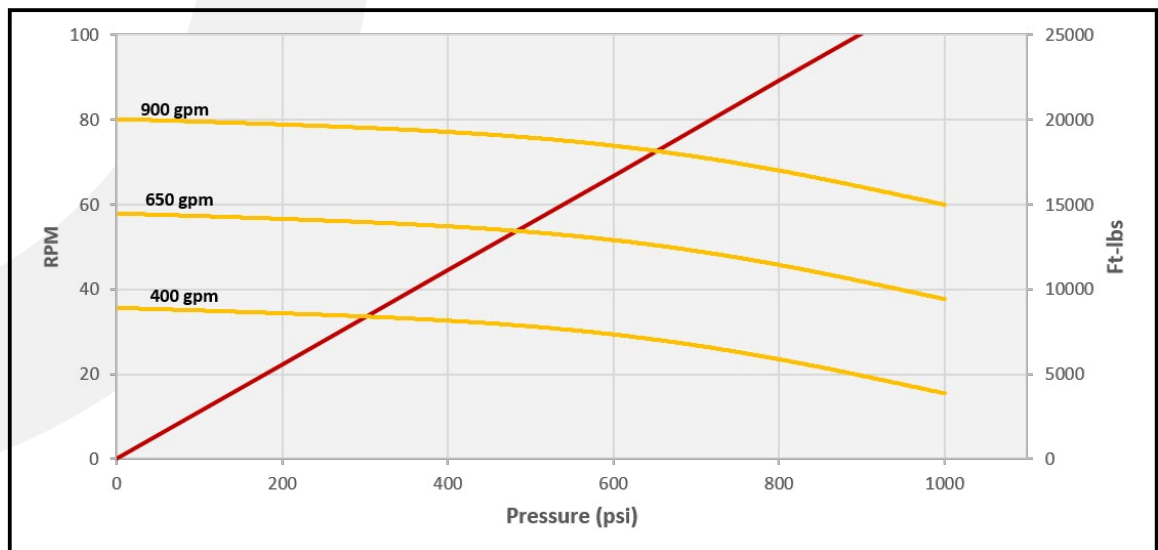
# 8" Mud Lube (D) 7/8 3.4

## MOTOR SPECIFICATIONS



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

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



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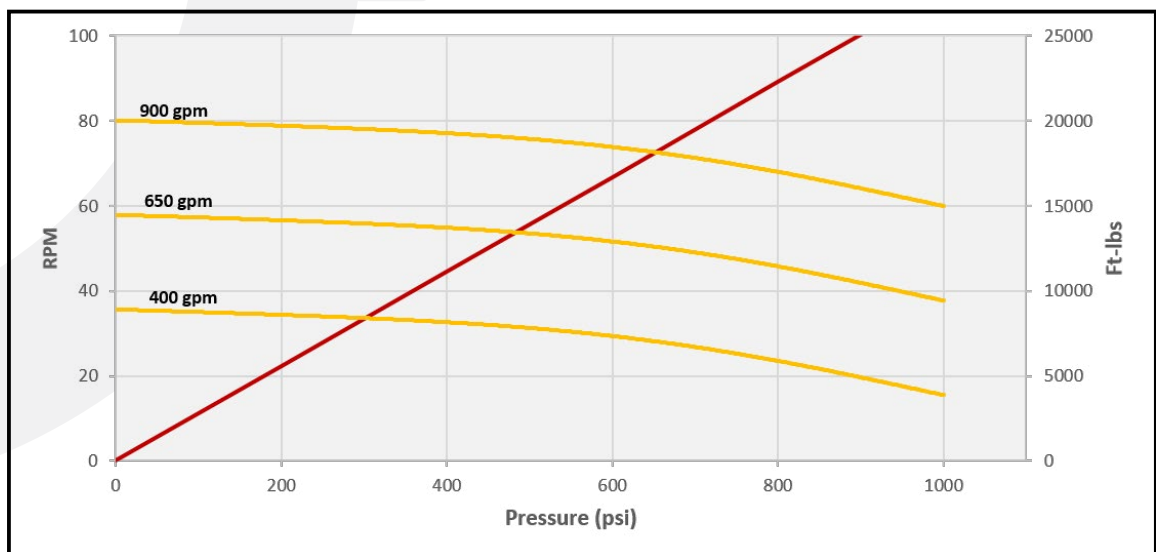
# 8" Oil Sealed 7/8 3.4

## MOTOR SPECIFICATIONS



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

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



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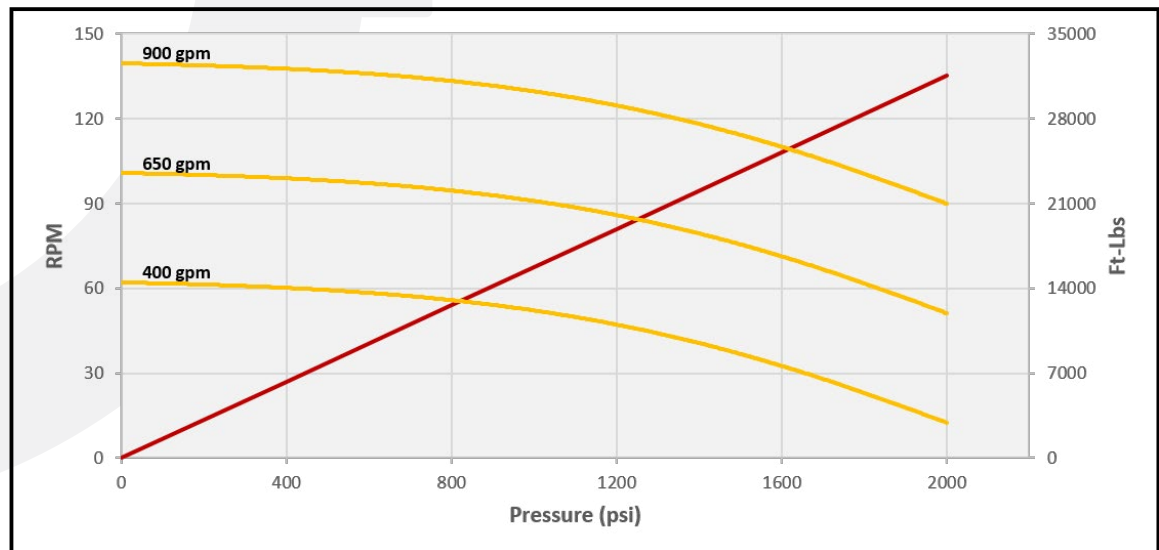
# 8" Mud Lube (D) 7/8 4.0

## MOTOR SPECIFICATIONS



| Physical Details            |                                     |
|-----------------------------|-------------------------------------|
| Nominal Length              | 385.25"<br>(9.79 m)                 |
| Weight                      | 4,950 lbs<br>(2245 kg)              |
| Performance Details         |                                     |
| Bit Speed (No load rpm)     |                                     |
| Flow Range                  | 400-900 gpm<br>(1,514- 3,407 l/min) |
| Revolutions                 | 0.155 rev/gal<br>(0.041 rev/l)      |
| Max Differential Pressure   | 940 psi<br>(6,481 kPa)              |
| Max Torque                  | 14,830 ft-lbs<br>(20,107 Nm)        |
| Stall Differential Pressure | 1,490 psi<br>(10,273 kPa)           |
| Stall Torque                | 23,350 ft-lbs<br>(31,658 Nm)        |
| Torque Slope                | 15.7 ft-lbs/psi<br>(3.087 Nm/kPa)   |
| Off-Bottom Pressure         | 150 psi<br>(1,034 kPa)              |

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



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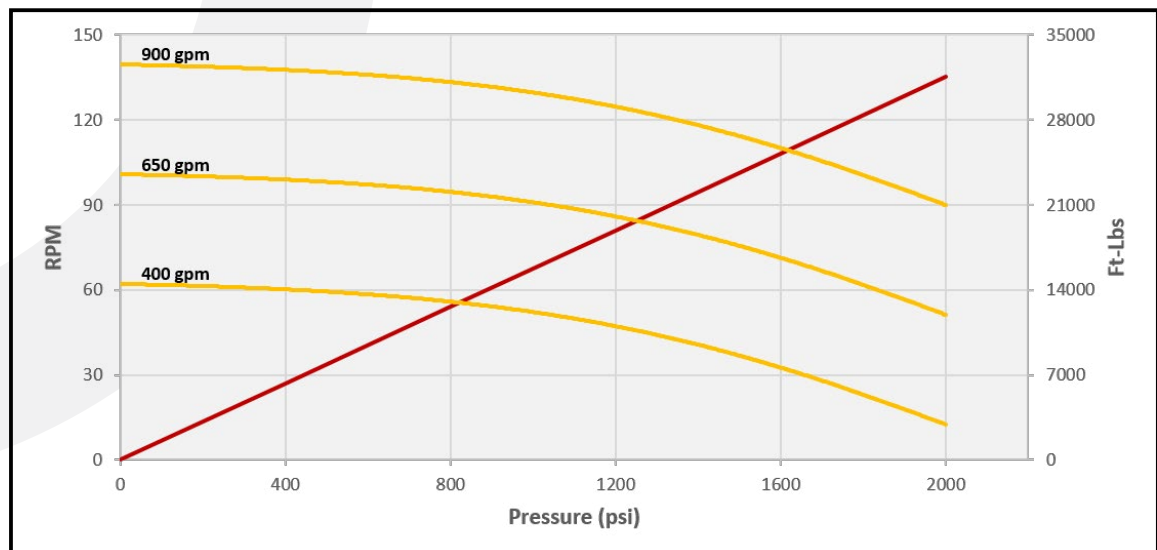
# 8" Oil Sealed 7/8 4.0

## MOTOR SPECIFICATIONS



| Physical Details            |                                     |
|-----------------------------|-------------------------------------|
| Nominal Length              | 397.25"<br>(10.09 m)                |
| Weight                      | 5,500 lbs<br>(2495 kg)              |
| Performance Details         |                                     |
| Bit Speed (No load rpm)     |                                     |
| Flow Range                  | 400-900 gpm<br>(1,514- 3,407 l/min) |
| Revolutions                 | 0.155 rev/gal<br>(0.041 rev/l)      |
| Max Differential Pressure   | 940 psi<br>(6,481 kPa)              |
| Max Torque                  | 14,830 ft-lbs<br>(20,107 Nm)        |
| Stall Differential Pressure | 1490 psi<br>(10,273 kPa)            |
| Stall Torque                | 23,500 ft-lbs<br>(31,658 Nm)        |
| Torque Slope                | 15.7 ft-lbs/psi<br>(3.087 Nm/kPa)   |
| Off-Bottom Pressure         | 150 psi<br>(1,039kPa)               |

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



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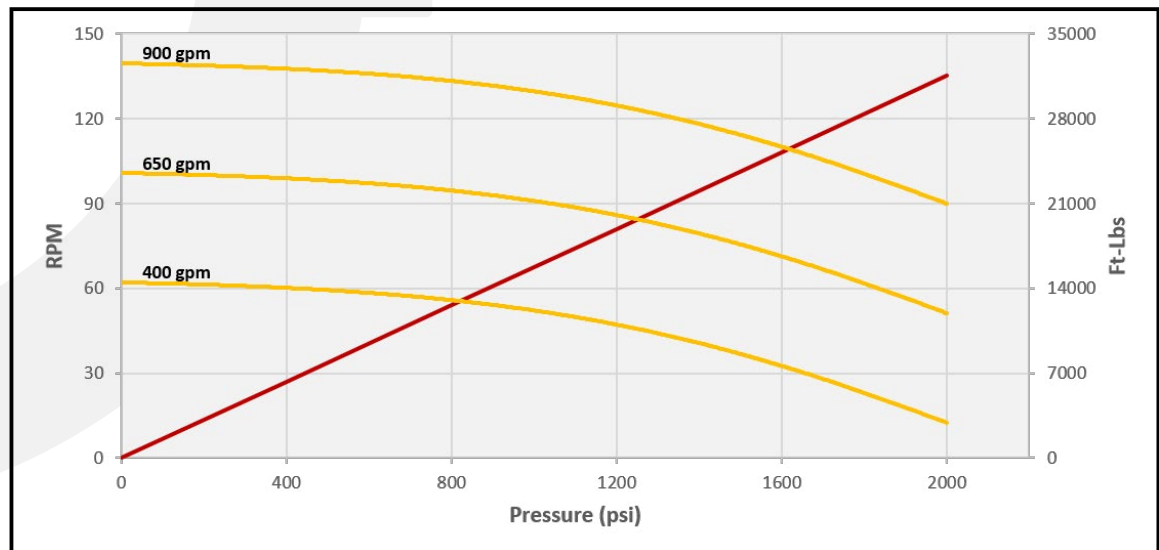
# 8" Mud Lube (D) 7/8 5.9

## MOTOR SPECIFICATIONS



| Physical Details            |                                     |
|-----------------------------|-------------------------------------|
| Nominal Length              | 482"<br>(12.24 m)                   |
| Weight                      | 6,500 lbs<br>(2948 kg)              |
| Performance Details         |                                     |
| Bit Speed (No load rpm)     |                                     |
| Flow Range                  | 400-900 gpm<br>(1,514- 3,407 l/min) |
| Revolutions                 | 0.155 rev/gal<br>(0.041 rev/l)      |
| Max Differential Pressure   | 1390 psi<br>(9,584 kPa)             |
| Max Torque                  | 21,870 ft-lbs<br>(29,652 Nm)        |
| Stall Differential Pressure | 2.190 psi<br>(15,100 kPa)           |
| Stall Torque                | 34,440 ft-lbs<br>(46,694 Nm)        |
| Torque Slope                | 15.7 ft-lbs/psi<br>(3.087 Nm/kPa)   |
| Off-Bottom Pressure         | 184 psi<br>(1,269 kPa)              |

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



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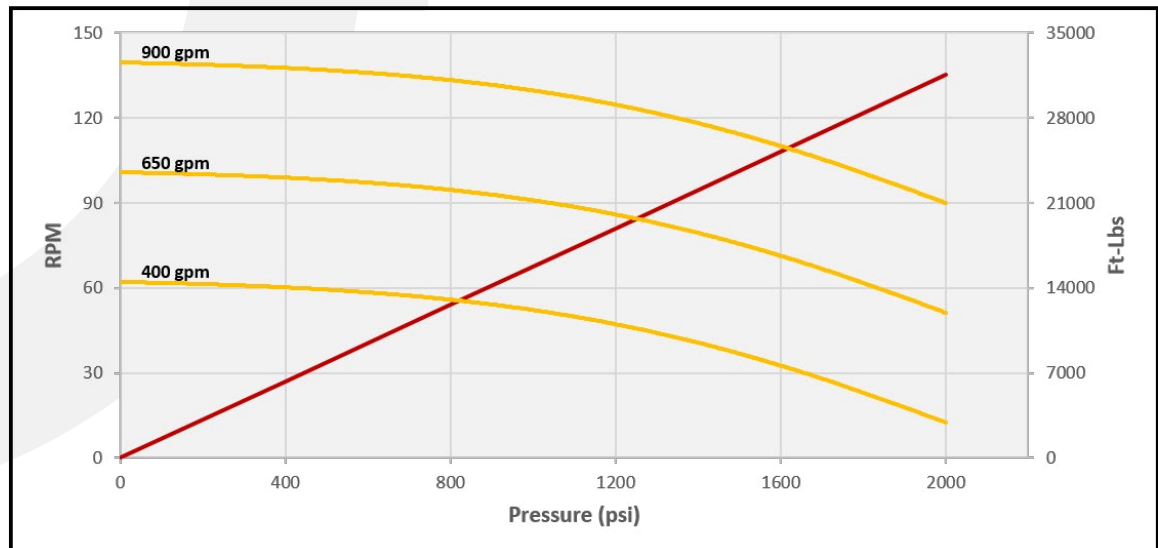
# 8" Oil Sealed 7/8 5.9

## MOTOR SPECIFICATIONS



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

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



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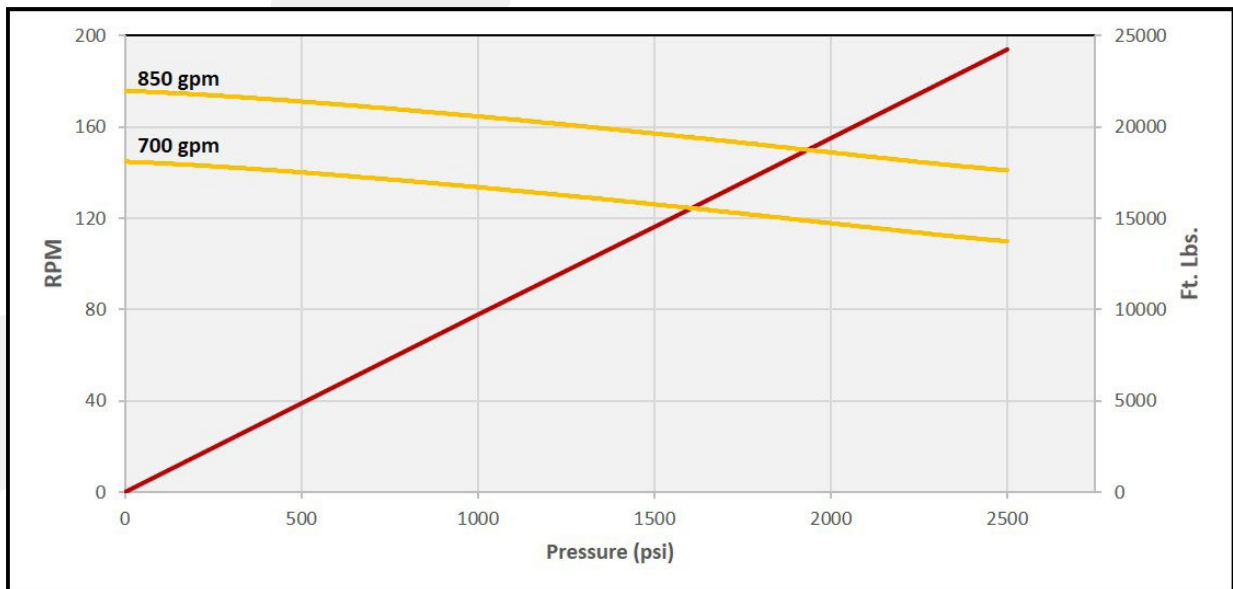
# 8" Oil-Sealed .21 RPG

## MOTOR SPECIFICATIONS



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

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



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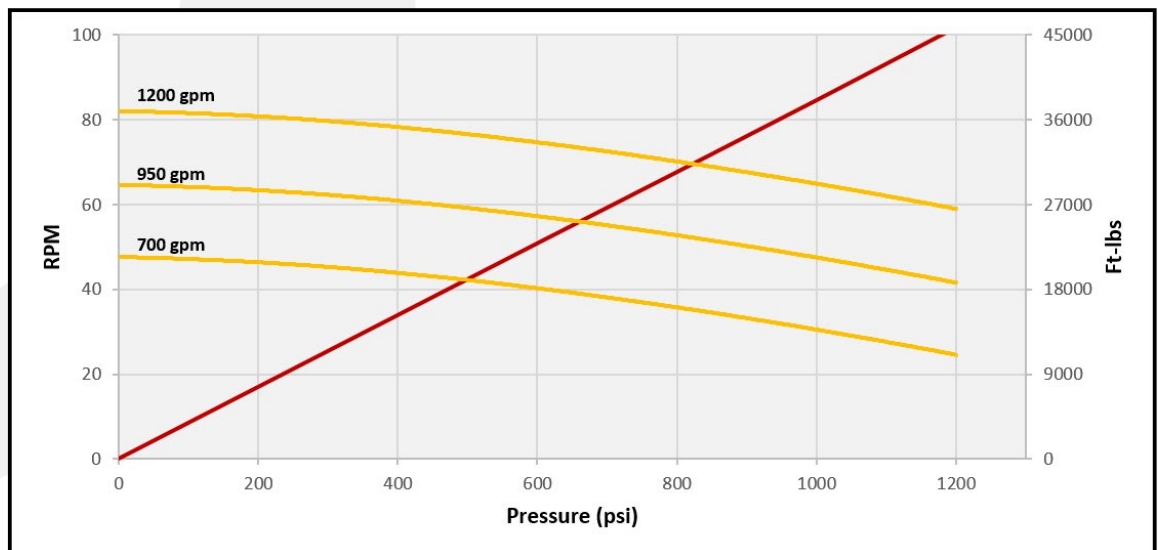
# 9-5/8" Mud Lube (D) 7/8 3.9

## MOTOR SPECIFICATIONS



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

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



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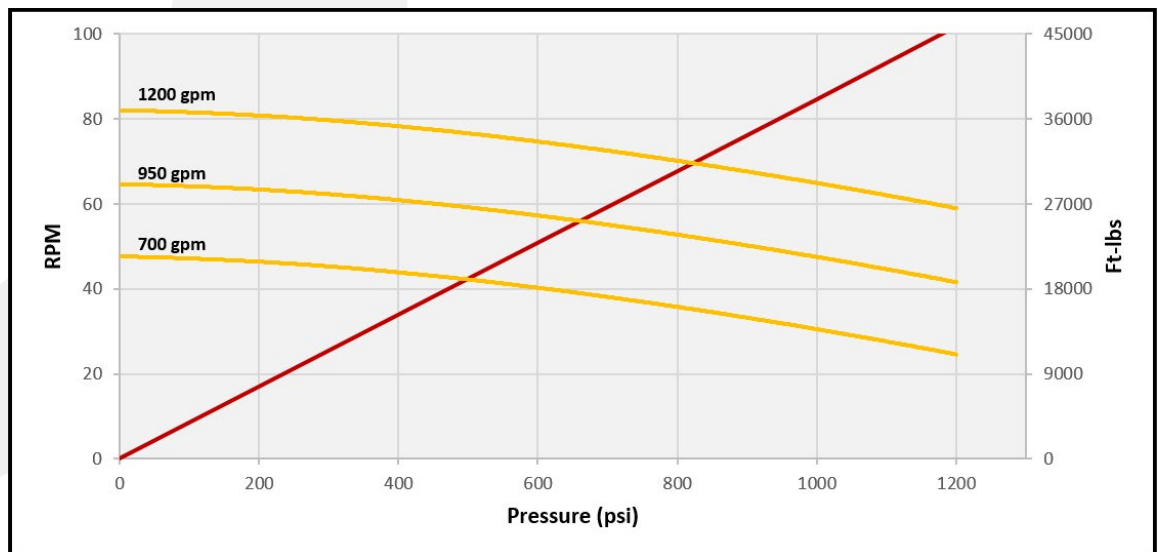
# 9-5/8" Oil Sealed 7/8 3.9

## MOTOR SPECIFICATIONS



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

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



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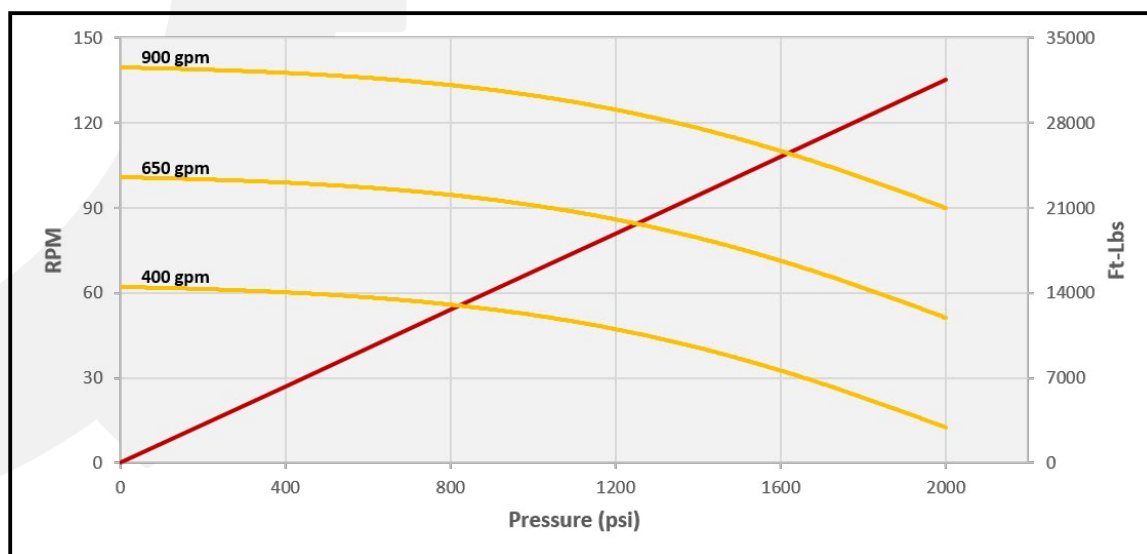
# 9-5/8" x 8" Mud Lube (D) 7/8 5.9

## MOTOR SPECIFICATIONS



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

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



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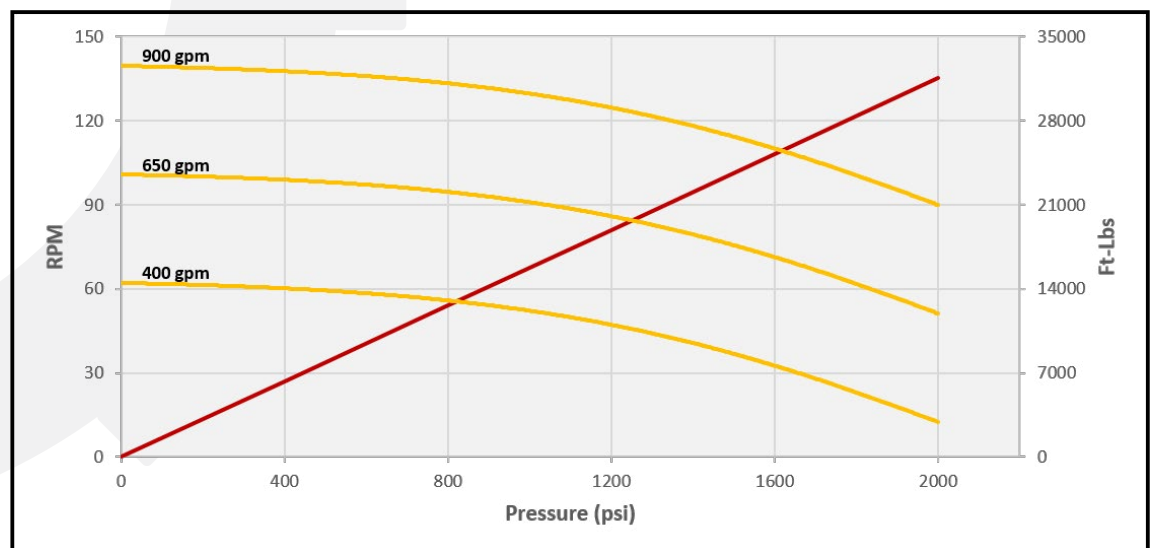


# 9-5/8" x 8" Oil Sealed 7/8 5.9 MOTOR SPECIFICATIONS



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

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



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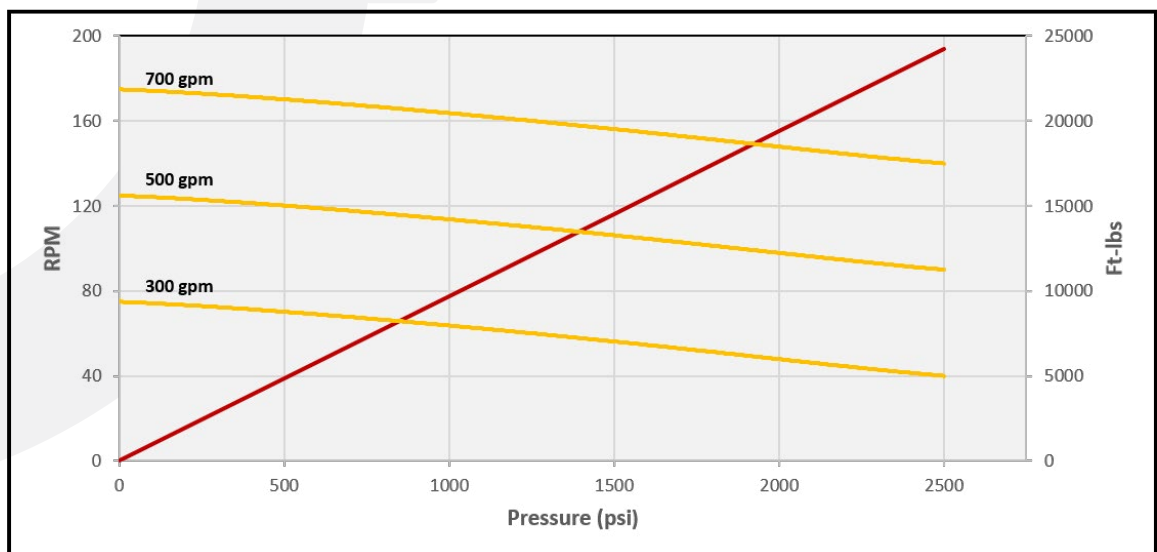
# 9-5/8" x 8" Mud Lube (D) 7/8 6.9

## MOTOR SPECIFICATIONS



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

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



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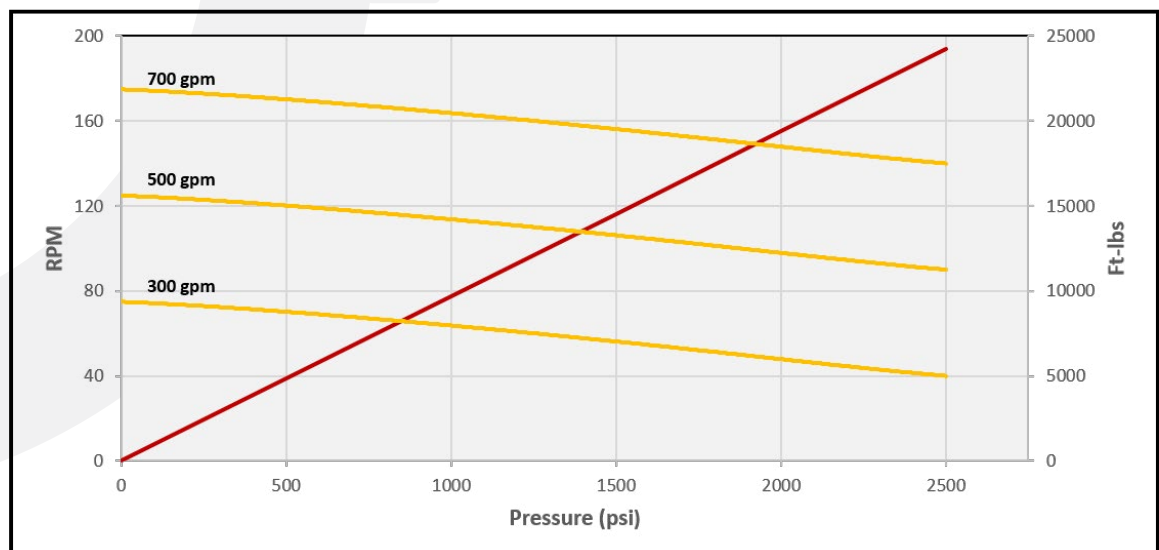
# 9-5/8" x 8" Oil Sealed 7/8 6.9

## MOTOR SPECIFICATIONS



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

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



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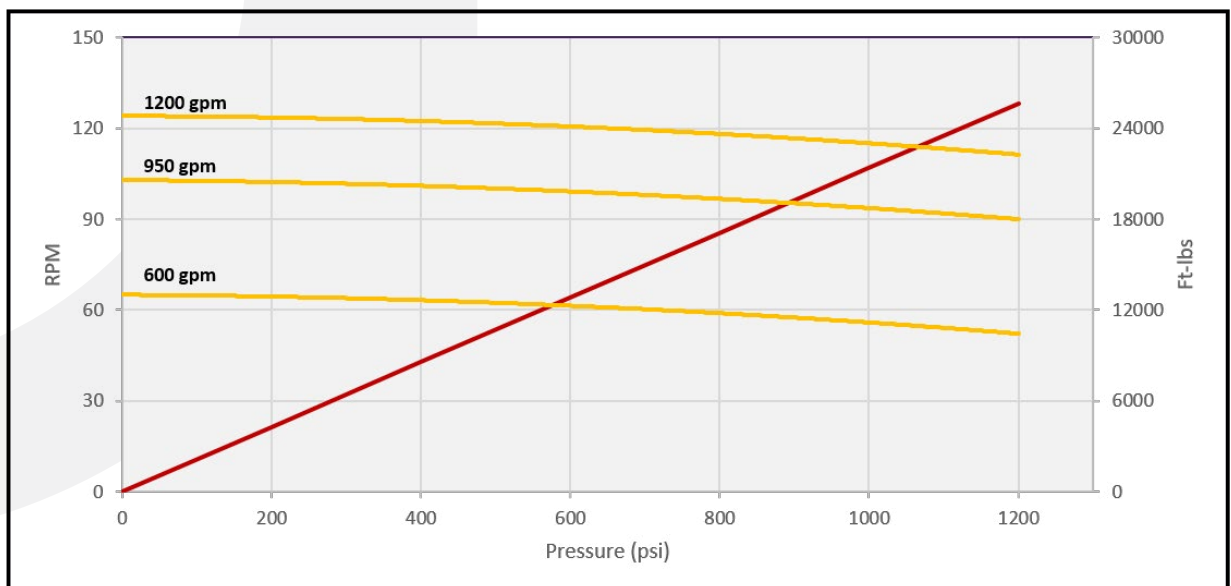
# 9-5/8" Mud Lube (D) 5/6 4.0

## MOTOR SPECIFICATIONS



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

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



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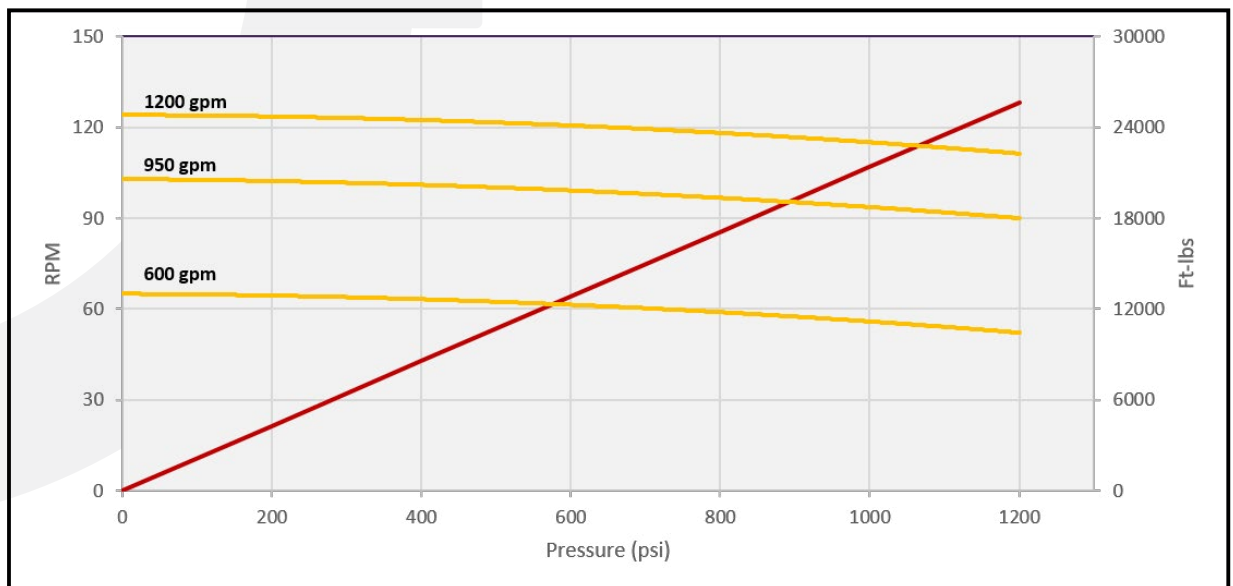
# 9-5/8" Oil Sealed 5/6 4.0

## MOTOR SPECIFICATIONS



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

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



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