



# DOWNHOLE MOTORBOOK

## PERFORMANCE & SPECIFICATIONS

TORQUE

SPEED

FLOW

LIMITS



ENGINEERED FOR PERFORMANCE.  
BUILT FOR CANADA.



PRECISION  
ENGINEERING



RELIABLE  
PERFORMANCE



FIELD  
PROVEN

# 2026

— EDITION —

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# 1688 G2 (42.9 mm) - AVRO - G2 HIGH FLOW

5/6 - 2.3 | SS100 PERFORMANCE FAMILY



## GENERAL / DIMENSIONS

|                         |                |                      |                                 |
|-------------------------|----------------|----------------------|---------------------------------|
| Motor Size / Generation | 1688 G2        | Motor / Model        | AVRO - G2 High Flow             |
| Supplier / Source       | TTC            | Lobe / Configuration | 5/6 - 2.3                       |
| Overall Motor Length    | 8.6 ft (2.6 m) | Overall Motor Weight | 45 lbs (20 kg)                  |
| Maximum Temperature     | 325°F (163°C)  | Recommended Bit Size | 1-7/8" to 2-3/4" (47.6–69.9 mm) |

## Recommended Operating Limits

|               |                               |
|---------------|-------------------------------|
| Flow Range    | 20–46 gpm (76–175 lpm)        |
| Ultimate Flow | 51 gpm (195 lpm)              |
| Speed Range   | 216–500.5 rpm                 |
| Speed Ratio   | 10.8 rev/gal (2.86 rev/liter) |

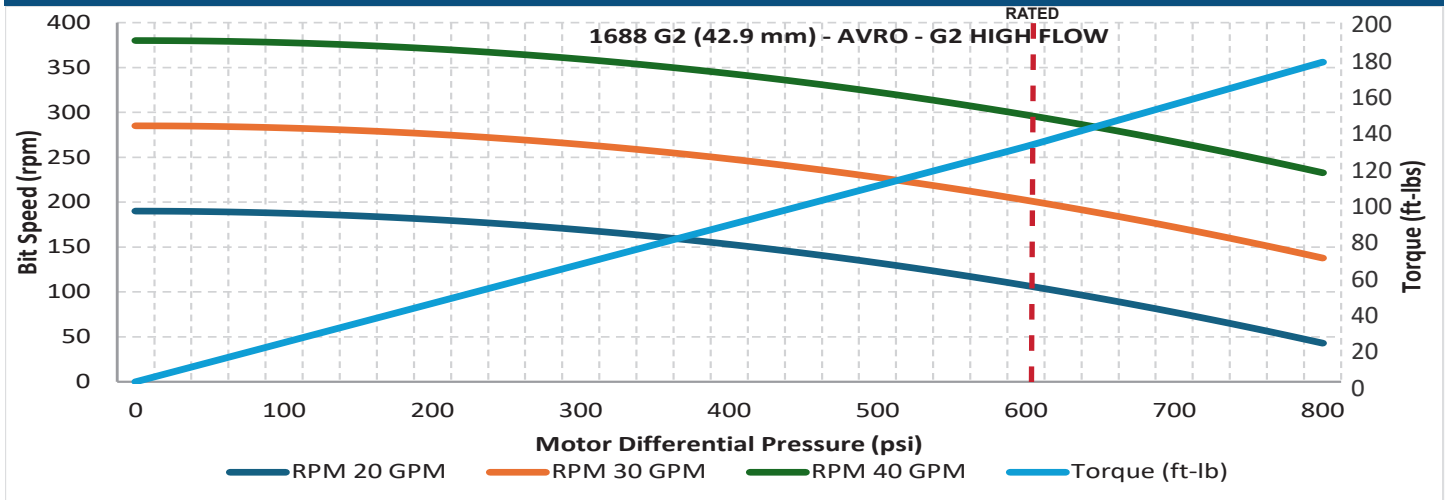
## Performance Output

|                               |                                    |
|-------------------------------|------------------------------------|
| Maximum Differential Pressure | 600 psi (4.14 MPa)                 |
| Stall Differential Pressure   | 800 psi (5.52 MPa)                 |
| Maximum Torque                | 131 ft-lbs (177.6 Nm)              |
| Stall Torque                  | 178 ft-lbs (241.3 Nm)              |
| Torque Slope                  | 0.21 ft-lbs/psi (0.030 ft-lbs/kPa) |

## MECHANICAL LIMITS

|                                         |                        |
|-----------------------------------------|------------------------|
| Maximum WOB - Operating                 | 3,750 lb (1,670 daN)   |
| Maximum Pull Back Reaming               | 1,610 lb (720 daN)     |
| Max Pull to Fail Bearings (Not Pumping) | 22,000 lb (9,790 daN)  |
| Max Pull to Yield Body (Not Pumping)    | 52,000 lb (23,130 daN) |

## Performance Curve



Performance data is provided for reference only. Specifications are subject to change without notice.

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# 2125 G2 (54.0 mm) - AVRO - G2 HIGH FLOW

5/6 - 6.0 | PERFORMANCE FAMILY



## GENERAL / DIMENSIONS

|                         |                    |                      |                                    |
|-------------------------|--------------------|----------------------|------------------------------------|
| Motor Size / Generation | 2125 G2            | Motor / Model        | Avro - G2 High Flow                |
| Supplier / Source       | TTC                | Lobe / Configuration | 5/6 - 6.0                          |
| Overall Motor Length    | 11 ft (3.4 m)      | Overall Motor Weight | 90 lbs (41 kg)                     |
| Maximum Temperature     | 350°F (177°C) – SS | Recommended Bit Size | 2-3/16" to 3-1/4" (55.6 - 82.6 mm) |

## Recommended Operating Limits

|               |                                |
|---------------|--------------------------------|
| Flow Range    | 20–60 gpm (76–227 lpm)         |
| Ultimate Flow | 65 gpm (246 lpm)               |
| Speed Range   | 260–770 rpm                    |
| Speed Ratio   | 12.78 rev/gal (3.38 rev/liter) |

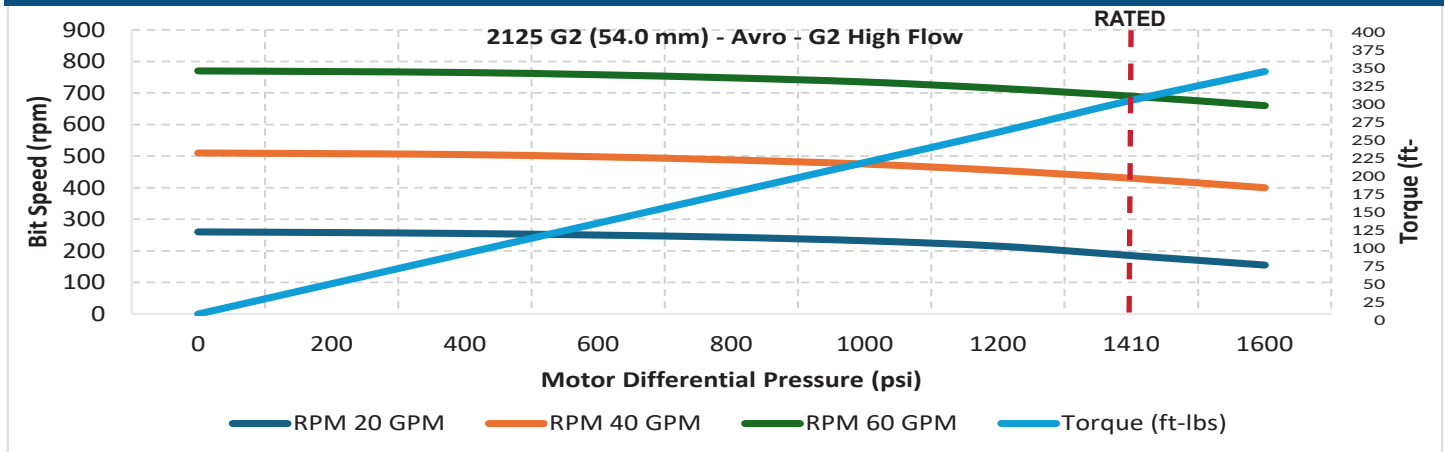
## Performance Output

|                               |                                    |
|-------------------------------|------------------------------------|
| Maximum Differential Pressure | 1,410 psi (9.72 MPa)               |
| Stall Differential Pressure   | 2,230 psi (15.38 MPa)              |
| Maximum Torque                | 340 ft-lbs (461 Nm)                |
| Stall Torque                  | 540 ft-lbs (732 Nm)                |
| Torque Slope                  | 0.24 ft-lbs/psi (0.035 ft-lbs/kPa) |

## MECHANICAL LIMITS

|                                         |                        |
|-----------------------------------------|------------------------|
| Maximum WOB - Operating                 | 5,500 lb (2,450 daN)   |
| Maximum Pull Back Reaming               | 2,350 lb (1,050 daN)   |
| Max Pull to Fail Bearings (Not Pumping) | 34,000 lb (15,120 daN) |
| Max Pull to Yield Body (Not Pumping)    | 97,700 lb (43,460 daN) |

## Performance Curve



Performance data is provided for reference only. Specifications are subject to change without notice.

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# 2875 G1 (73.0 mm) - AVRO - WORKOVER

5/6 - 3.5 | PERFORMANCE FAMILY



## GENERAL / DIMENSIONS

|                         |                   |                      |                                 |
|-------------------------|-------------------|----------------------|---------------------------------|
| Motor Size / Generation | 2875 G1           | Motor / Model        | Avro - Workover                 |
| Supplier / Source       | TTC               | Lobe / Configuration | 5/6 - 3.5                       |
| Overall Motor Length    | 12.3 ft (3.73 m)  | Overall Motor Weight | 180 lbs (80 kg)                 |
| Maximum Temperature     | 400°F (204°C), SS | Recommended Bit Size | 3-1/4" to 4" (79.38 - 101.6 mm) |

## Recommended Operating Limits

|               |                               |
|---------------|-------------------------------|
| Flow Range    | 50–132 gpm (189–500 lpm)      |
| Ultimate Flow | 160 gpm (605 lpm)             |
| Speed Range   | 111.5–295 rpm                 |
| Speed Ratio   | 2.22 rev/gal (0.59 rev/liter) |

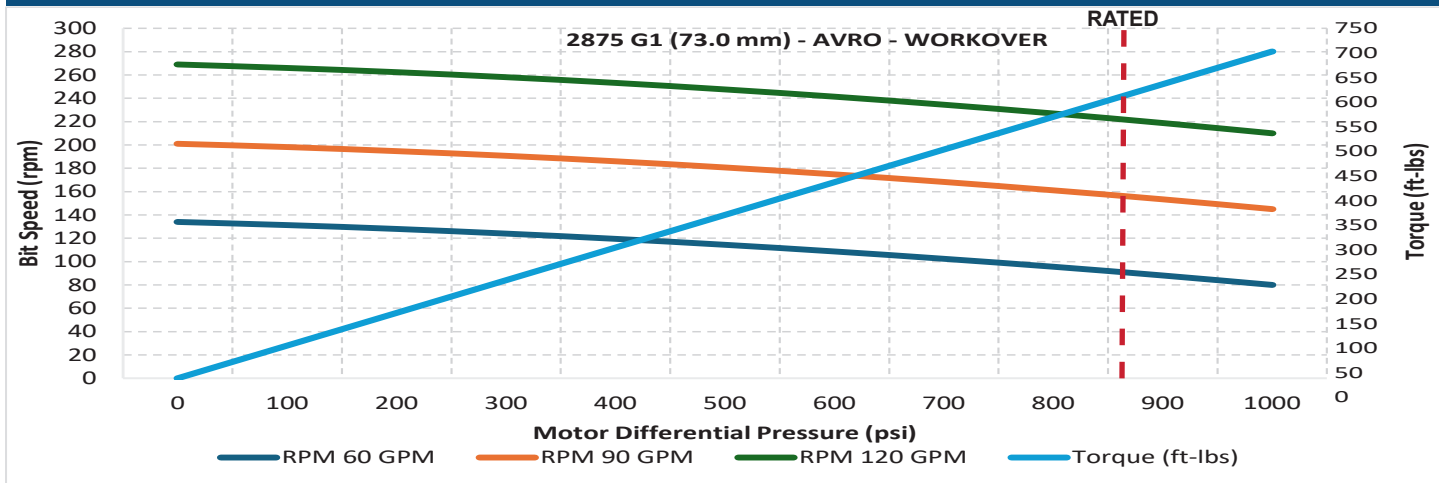
## Performance Output

|                               |                                    |
|-------------------------------|------------------------------------|
| Maximum Differential Pressure | 700 psi (4.83 MPa)                 |
| Stall Differential Pressure   | 1,000 psi (6.89 MPa)               |
| Maximum Torque                | 582 ft-lbs (789 Nm)                |
| Stall Torque                  | 845 ft-lbs (1,145 Nm)              |
| Torque Slope                  | 0.83 ft-lbs/psi (0.120 ft-lbs/kPa) |

## MECHANICAL LIMITS

|                                         |                         |
|-----------------------------------------|-------------------------|
| Maximum WOB - Operating                 | 8,000 lb (3,560 daN)    |
| Maximum Pull Back Reaming               | 2,200 lb (980 daN)      |
| Max Pull to Fail Bearings (Not Pumping) | 38,000 lb (16,900 daN)  |
| Max Pull to Yield Body (Not Pumping)    | 180,000 lb (80,070 daN) |

## Performance Curve



Performance data is provided for reference only. Specifications are subject to change without notice.

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# 2875 G1 (73.0 mm) - AVRO - WORKOVER

5/6 - 4.7 | PERFORMANCE FAMILY



## GENERAL / DIMENSIONS

|                         |                    |                      |                                 |
|-------------------------|--------------------|----------------------|---------------------------------|
| Motor Size / Generation | 2875 G1            | Motor / Model        | Avro - Workover                 |
| Supplier / Source       | TTC                | Lobe / Configuration | 5/6 - 4.7                       |
| Overall Motor Length    | 11.875 ft (3.61 m) | Overall Motor Weight | 180 lbs (80 kg)                 |
| Maximum Temperature     | 300°F (149°C)      | Recommended Bit Size | 3-1/4" to 4" (79.38 - 101.6 mm) |

## Recommended Operating Limits

|               |                               |
|---------------|-------------------------------|
| Flow Range    | 50–132 gpm (189–500 lpm)      |
| Ultimate Flow | 160 gpm (605 lpm)             |
| Speed Range   | 166–440 rpm                   |
| Speed Ratio   | 3.32 rev/gal (0.88 rev/liter) |

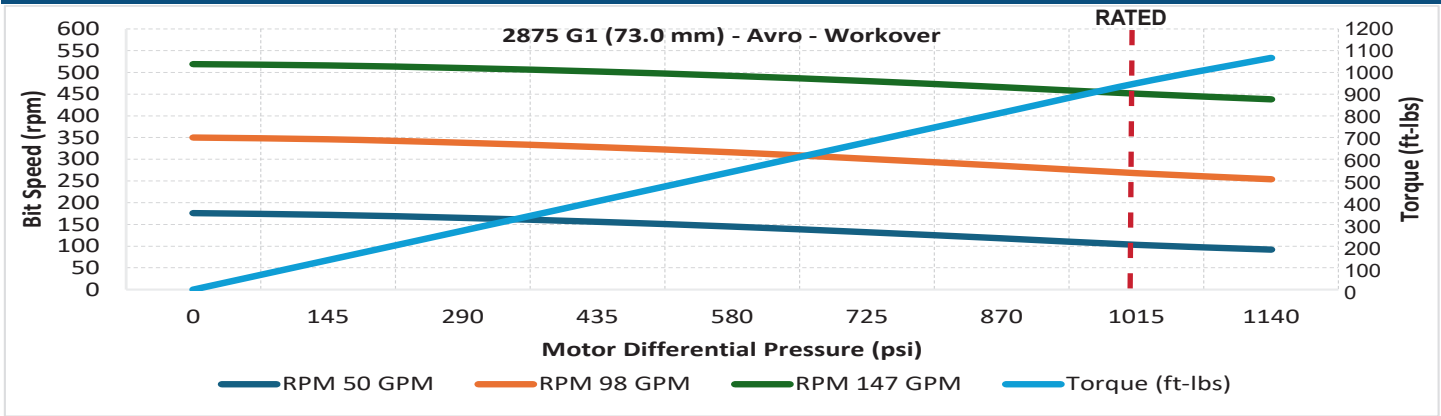
## Performance Output

|                               |                                    |
|-------------------------------|------------------------------------|
| Maximum Differential Pressure | 1,110 psi (7.65 MPa)               |
| Stall Differential Pressure   | 1,740 psi (12.00 MPa)              |
| Maximum Torque                | 830 ft-lbs (1,125 Nm)              |
| Stall Torque                  | 1,310 ft-lbs (1,776 Nm)            |
| Torque Slope                  | 0.75 ft-lbs/psi (0.109 ft-lbs/kPa) |

## MECHANICAL LIMITS

|                                         |                         |
|-----------------------------------------|-------------------------|
| Maximum WOB - Operating                 | 8,000 lb (3,560 daN)    |
| Maximum Pull Back Reaming               | 2,200 lb (980 daN)      |
| Max Pull to Fail Bearings (Not Pumping) | 38,000 lb (16,900 daN)  |
| Max Pull to Yield Body (Not Pumping)    | 180,000 lb (80,070 daN) |

## Performance Curve



# 2875 G2 (73.0 mm) - AVRO - G2 HIGH FLOW

5/6 - 3.5 | PERFORMANCE FAMILY



## GENERAL / DIMENSIONS

|                         |                  |                      |                                 |
|-------------------------|------------------|----------------------|---------------------------------|
| Motor Size / Generation | 2875 G2          | Motor / Model        | Avro - G2 High Flow             |
| Supplier / Source       | TTC              | Lobe / Configuration | 5/6 - 3.5                       |
| Overall Motor Length    | 13.6 ft (4.14 m) | Overall Motor Weight | 200 lbs (91 kg)                 |
| Maximum Temperature     | 300°F (149°C)    | Recommended Bit Size | 3-1/4" to 4" (79.38 - 101.6 mm) |

## Recommended Operating Limits

|               |                               |
|---------------|-------------------------------|
| Flow Range    | 50–172 gpm (189–651 lpm)      |
| Ultimate Flow | 185 gpm (700 lpm)             |
| Speed Range   | 111.5–383.5 rpm               |
| Speed Ratio   | 2.22 rev/gal (0.59 rev/liter) |

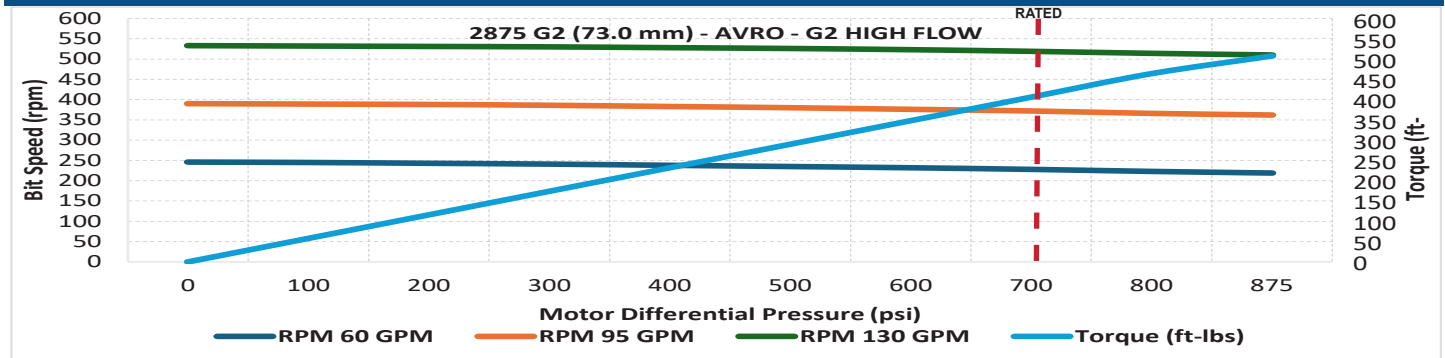
## Performance Output

|                               |                                    |
|-------------------------------|------------------------------------|
| Maximum Differential Pressure | 700 psi (4.83 MPa)                 |
| Stall Differential Pressure   | 1,000 psi (6.89 MPa)               |
| Maximum Torque                | 582 ft-lbs (789 Nm)                |
| Stall Torque                  | 845 ft-lbs (1,145 Nm)              |
| Torque Slope                  | 0.83 ft-lbs/psi (0.120 ft-lbs/kPa) |

## MECHANICAL LIMITS

|                                         |                         |
|-----------------------------------------|-------------------------|
| Maximum WOB - Operating                 | 8,750 lb (3,890 daN)    |
| Maximum Pull Back Reaming               | 2,500 lb (1,110 daN)    |
| Max Pull to Fail Bearings (Not Pumping) | 56,000 lb (24,910 daN)  |
| Max Pull to Yield Body (Not Pumping)    | 180,000 lb (80,070 daN) |

## Performance Curve



# 2875 G2 (73.0 mm) - AVRO - G2 HIGH FLOW

5/6 - 4.7 | PERFORMANCE FAMILY



## GENERAL / DIMENSIONS

|                         |                  |                      |                                 |
|-------------------------|------------------|----------------------|---------------------------------|
| Motor Size / Generation | 2875 G2          | Motor / Model        | Avro - G2 High Flow             |
| Supplier / Source       | TTC              | Lobe / Configuration | 5/6 - 4.7                       |
| Overall Motor Length    | 13.6 ft (4.14 m) | Overall Motor Weight | 200 lb (91 kg)                  |
| Maximum Temperature     | 300°F (149°C)    | Recommended Bit Size | 3-1/4" to 4" (79.38 - 101.6 mm) |

## Recommended Operating Limits

|               |                           |
|---------------|---------------------------|
| Flow Range    | 50–172 gpm (189–651 lpm)  |
| Ultimate Flow | 185 gpm (700 lpm)         |
| Speed Range   | 166–572.9 rpm             |
| Speed Ratio   | 3.32 rev/gal (0.88 rev/L) |

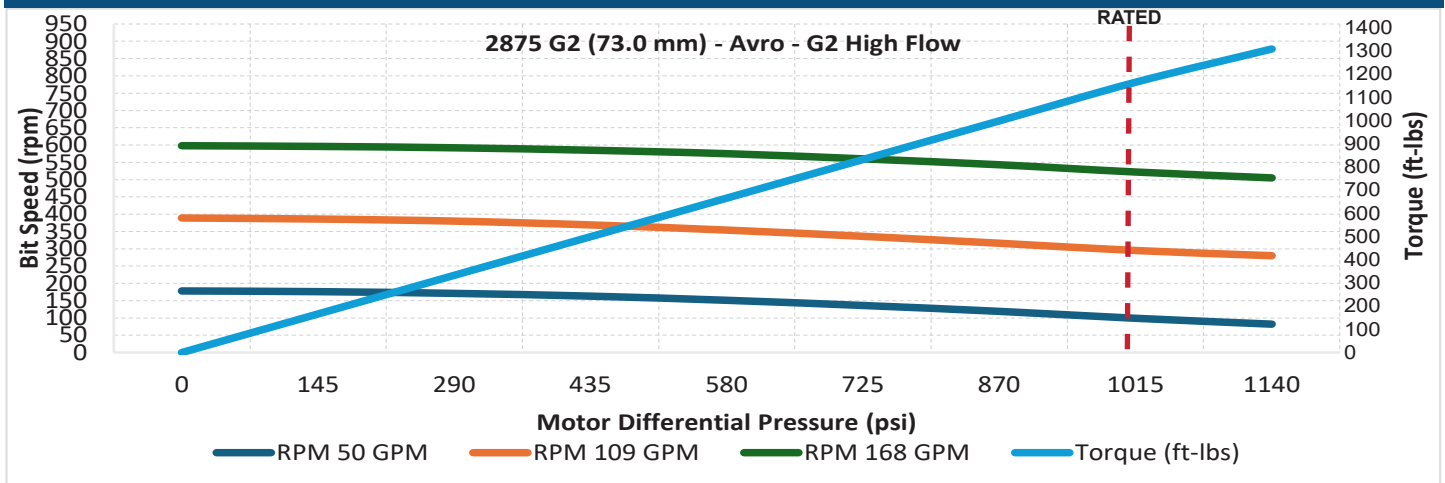
## Performance Output

|                               |                                    |
|-------------------------------|------------------------------------|
| Maximum Differential Pressure | 1,110 psi (7.65 MPa)               |
| Stall Differential Pressure   | 1,740 psi (12.00 MPa)              |
| Maximum Torque                | 830 ft-lbs (1,125 Nm)              |
| Stall Torque                  | 1,310 ft-lbs (1,776 Nm)            |
| Torque Slope                  | 0.75 ft-lbs/psi (0.109 ft-lbs/kPa) |

## MECHANICAL LIMITS

|                                         |                         |
|-----------------------------------------|-------------------------|
| Maximum WOB - Operating                 | 8,750 lb (3,890 daN)    |
| Maximum Pull Back Reaming               | 2,500 lb (1,110 daN)    |
| Max Pull to Fail Bearings (Not Pumping) | 56,000 lb (24,910 daN)  |
| Max Pull to Yield Body (Not Pumping)    | 180,000 lb (80,070 daN) |

## Performance Curve





# 2875 G3 (73.0 mm) - AVRO G3 - CF105 - ELEVATED VELOCITY

4/5 - 4.0 | CF105 PERFORMANCE FAMILY



## GENERAL / DIMENSIONS

|                         |                   |                      |                                     |
|-------------------------|-------------------|----------------------|-------------------------------------|
| Motor Size / Generation | 2875 G3           | Motor / Model        | Avro G3 - CF105 - Elevated Velocity |
| Supplier / Source       | TTC               | Lobe / Configuration | 4/5 - 4.0                           |
| Overall Motor Length    | 14.5 ft (4.452 m) | Overall Motor Weight | TBD                                 |
| Maximum Temperature     | 300°F (149°C)     | Recommended Bit Size | 3-1/4"–4" (79.38–101.6 mm)          |

## Recommended Operating Limits

|               |                              |
|---------------|------------------------------|
| Flow Range    | 70 – 210 gpm (265 – 795 LPM) |
| Ultimate Flow | 225 gpm (852 lpm)            |
| Speed Range   | 202–606 rpm                  |
| Speed Ratio   | 2.89 rev/gal (0.76 rev/L)    |

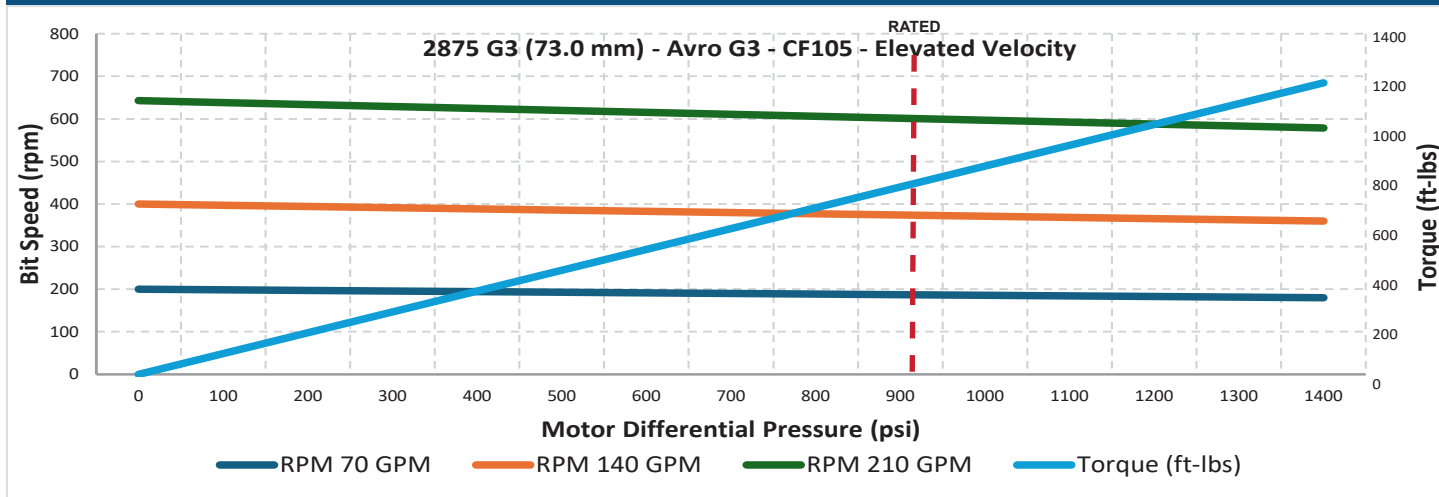
## Performance Output

|                               |                                     |
|-------------------------------|-------------------------------------|
| Maximum Differential Pressure | 930 psi (6.41 MPa)                  |
| Stall Differential Pressure   | 1,400 psi (9.65 MPa)                |
| Maximum Torque                | 910 ft-lbs (1,234 Nm)               |
| Stall Torque                  | 1,370 ft-lbs (1,858 Nm)             |
| Torque Slope                  | 0.978 ft-lbs/psi (0.142 ft-lbs/kPa) |

## MECHANICAL LIMITS

|                    |                       |                             |                         |
|--------------------|-----------------------|-----------------------------|-------------------------|
| Max WOB @ 100 RPM  | 22,000 lb (9,790 daN) | Max Pull @ 200 RPM          | 12,000 lb (5,340 daN)   |
| Max WOB @ 200 RPM  | 18,000 lb (8,010 daN) | Torsional Yield             | 2,600 ft-lbs (3,525 Nm) |
| Max WOB @ 300 RPM  | 16,000 lb (7,120 daN) | Tensile Yield – Housing     | 197,000 lb (87,630 daN) |
| Max Pull @ 100 RPM | 14,500 lb (6,450 daN) | Tensile Yield – Mandrel     | 143,000 lb (63,610 daN) |
|                    |                       | Tensile Yield – Motor Catch | 47,500 lb (21,130 daN)  |

## Performance Curve



Performance data is provided for reference only. Specifications are subject to change without notice.

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# 3125 G2 (79.4 mm) - AVRO - G2 HIGH FLOW

6/7 - 1.1 | SS100 PERFORMANCE FAMILY



## GENERAL / DIMENSIONS

|                         |                    |                      |                                     |
|-------------------------|--------------------|----------------------|-------------------------------------|
| Motor Size / Generation | 3125 G2            | Motor / Model        | Avro - G2 High Flow                 |
| Supplier / Source       | TTC                | Lobe / Configuration | 6/7 - 1.1                           |
| Overall Motor Length    | 10.08 ft (3.05 m)  | Overall Motor Weight | TBD                                 |
| Maximum Temperature     | 350°F (177°C) – SS | Recommended Bit Size | 4-1/8" to 5-1/2" (104.8 - 139.7 mm) |

## Recommended Operating Limits

|               |                               |
|---------------|-------------------------------|
| Flow Range    | 15 – 210 gpm (57 – 795 lpm)   |
| Ultimate Flow | 210 gpm (795 lpm)             |
| Speed Range   | 14 – 222.6 rpm                |
| Speed Ratio   | 1.06 rev/gal (0.28 rev/liter) |

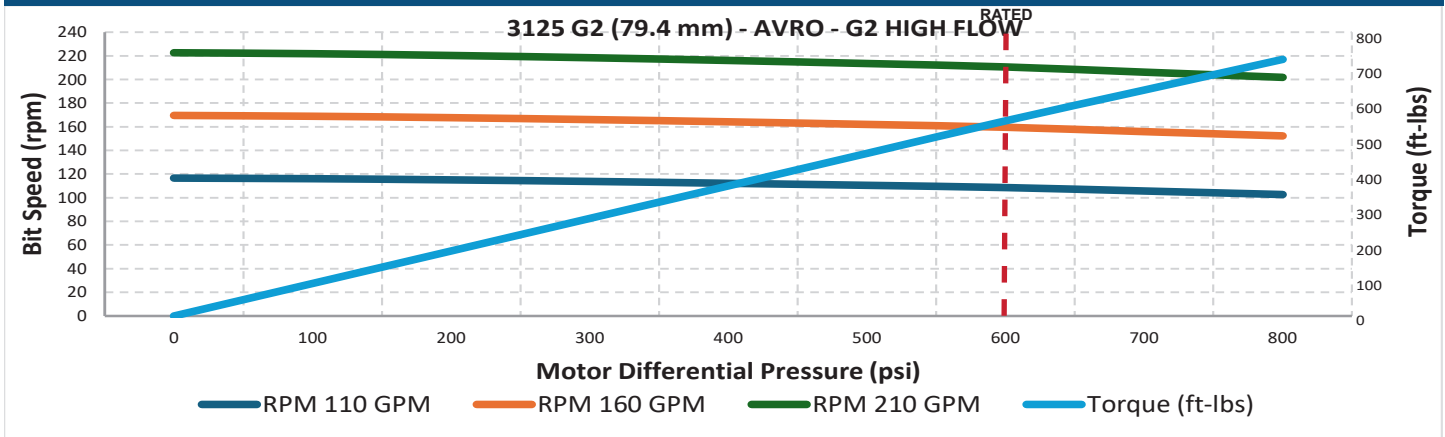
## Performance Output

|                               |                       |
|-------------------------------|-----------------------|
| Maximum Differential Pressure | 600 psi (4.14 MPa)    |
| Stall Differential Pressure   | 750 psi (5.17 MPa)    |
| Maximum Torque                | 550 ft-lbs (745.7 Nm) |
| Stall Torque                  | 680 ft-lbs (921 Nm)   |
| Torque Slope                  | TBD                   |

## MECHANICAL LIMITS

|                                         |                         |
|-----------------------------------------|-------------------------|
| Maximum WOB - Operating                 | 15,750 lb (7,010 daN)   |
| Maximum Pull Back Reaming               | 6,740 lb (3,000 daN)    |
| Max Pull to Fail Bearings (Not Pumping) | 77,000 lb (34,250 daN)  |
| Max Pull to Yield Body (Not Pumping)    | 176,000 lb (78,290 daN) |

## Performance Curve



Performance data is provided for reference only. Specifications are subject to change without notice.

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# 3125 G2 (79.4 mm) - AVRO - G2 HIGH FLOW

6/7 - 2.2 | SS100 PERFORMANCE FAMILY



## GENERAL / DIMENSIONS

|                         |                    |                      |                                     |
|-------------------------|--------------------|----------------------|-------------------------------------|
| Motor Size / Generation | 3125 G2            | Motor / Model        | Avro - G2 High Flow                 |
| Supplier / Source       | TTC                | Lobe / Configuration | 6/7 - 2.2                           |
| Overall Motor Length    | 14.2 ft (4.3 m)    | Overall Motor Weight | 245 lbs (111 kg)                    |
| Maximum Temperature     | 350°F (177°C) – SS | Recommended Bit Size | 4-1/8" to 5-1/2" (104.8 - 139.7 mm) |

## Recommended Operating Limits

|               |                               |
|---------------|-------------------------------|
| Flow Range    | 15–210 gpm (57–795 lpm)       |
| Ultimate Flow | 210 gpm (795 lpm)             |
| Speed Range   | 14 – 222.6 rpm                |
| Speed Ratio   | 1.06 rev/gal (0.28 rev/liter) |

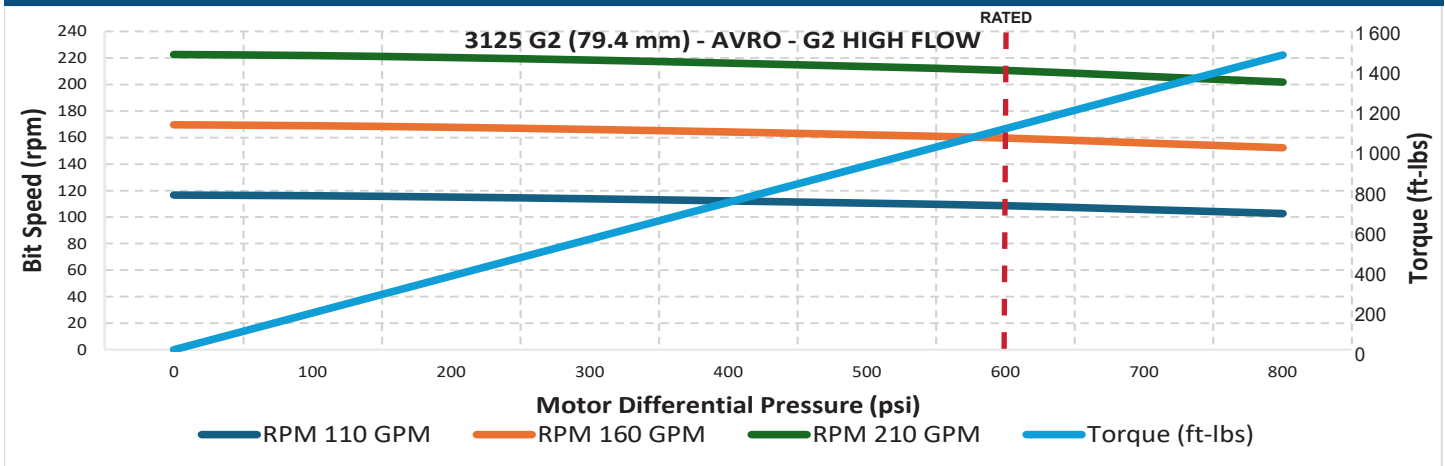
## Performance Output

|                               |                                  |
|-------------------------------|----------------------------------|
| Maximum Differential Pressure | 600 psi (4.14 MPa)               |
| Stall Differential Pressure   | 750 psi (5.17 MPa)               |
| Maximum Torque                | 1,250 ft-lbs (1,695 Nm)          |
| Stall Torque                  | 1,455 ft-lbs (1,972 Nm)          |
| Torque Slope                  | 1.94 ft-lb/psi (0.28 ft-lbs/kPa) |

## MECHANICAL LIMITS

|                                         |                          |
|-----------------------------------------|--------------------------|
| Maximum WOB - Operating                 | 15,750 lbs (7,010 daN)   |
| Maximum Pull Back Reaming               | 6,740 lbs (3,000 daN)    |
| Max Pull to Fail Bearings (Not Pumping) | 77,000 lbs (34,250 daN)  |
| Max Pull to Yield Body (Not Pumping)    | 176,000 lbs (78,290 daN) |

## Performance Curve



Performance data is provided for reference only. Specifications are subject to change without notice.

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# 3125 G2 (79.4 mm)- AVRO - G2 HIGH FLOW

7/8 - 2.5 | SS100 PERFORMANCE FAMILY



## GENERAL / DIMENSIONS

|                         |                    |                      |                                   |
|-------------------------|--------------------|----------------------|-----------------------------------|
| Motor Size / Generation | 3125 G2            | Motor / Model        | Avro - G2 High Flow               |
| Supplier / Source       | TTC                | Lobe / Configuration | 7/8 - 2.5                         |
| Overall Motor Length    | 14.2 ft (4.3 m)    | Overall Motor Weight | 245 lb (111 kg)                   |
| Maximum Temperature     | 350°F (177°C) – SS | Recommended Bit Size | 4-1/8" to 5-1/2" (104.8–139.7 mm) |

## Recommended Operating Limits

|               |                               |
|---------------|-------------------------------|
| Flow Range    | 110–210 gpm (416–795 lpm)     |
| Ultimate Flow | 225 gpm (852 lpm)             |
| Speed Range   | 145.6–278.3 rpm               |
| Speed Ratio   | 1.34 rev/gal (0.35 rev/liter) |

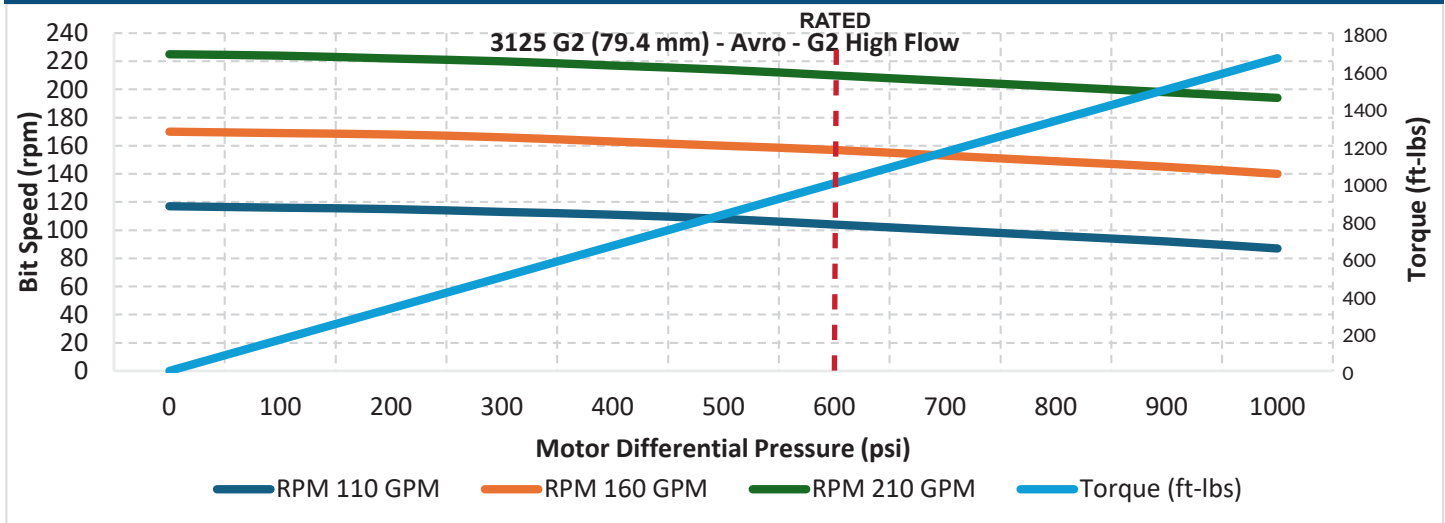
## Performance Output

|                               |                                   |
|-------------------------------|-----------------------------------|
| Maximum Differential Pressure | 600 psi (4.14 MPa)                |
| Stall Differential Pressure   | 750 psi (5.17 MPa)                |
| Maximum Torque                | 1,250 ft-lbs (1,695 Nm)           |
| Stall Torque                  | 1,455 ft-lbs (1,972 Nm)           |
| Torque Slope                  | 1.94 ft-lbs/psi (0.28 ft-lbs/kPa) |

## MECHANICAL LIMITS

|                                         |                         |
|-----------------------------------------|-------------------------|
| Maximum WOB - Operating                 | 15,750 lb (7,010 daN)   |
| Maximum Pull Back Reaming               | 6,740 lb (3,000 daN)    |
| Max Pull to Fail Bearings (Not Pumping) | 77,000 lb (34,250 daN)  |
| Max Pull to Yield Body (Not Pumping)    | 176,000 lb (78,290 daN) |

## Performance Curve



Performance data is provided for reference only. Specifications are subject to change without notice.

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# 3125 G3 (79.4 mm) - AVRO G3 - CF105 - ELEVATED VELOCITY

5/6 - 3.5 | CF105 PERFORMANCE FAMILY



## GENERAL / DIMENSIONS

|                         |               |                      |                                     |
|-------------------------|---------------|----------------------|-------------------------------------|
| Motor Size / Generation | 3125 G3       | Motor / Model        | Avro G3 - CF105 - Elevated Velocity |
| Supplier / Source       | TTC           | Lobe / Configuration | 5/6 - 3.5                           |
| Overall Motor Length    | 4.20 m        | Overall Motor Weight | TBD                                 |
| Maximum Temperature     | 300°F (149°C) | Recommended Bit Size | 4-1/8" to 5-1/2" (104.8 - 139.7 mm) |

## Recommended Operating Limits

|               |                           |
|---------------|---------------------------|
| Flow Range    | 100–230 gpm (379–871 LPM) |
| Ultimate Flow | 250 gpm (946.4 LPM)       |
| Speed Range   | 215–494 rpm               |
| Speed Ratio   | 2.15 rev/gal (0.57 rev/L) |

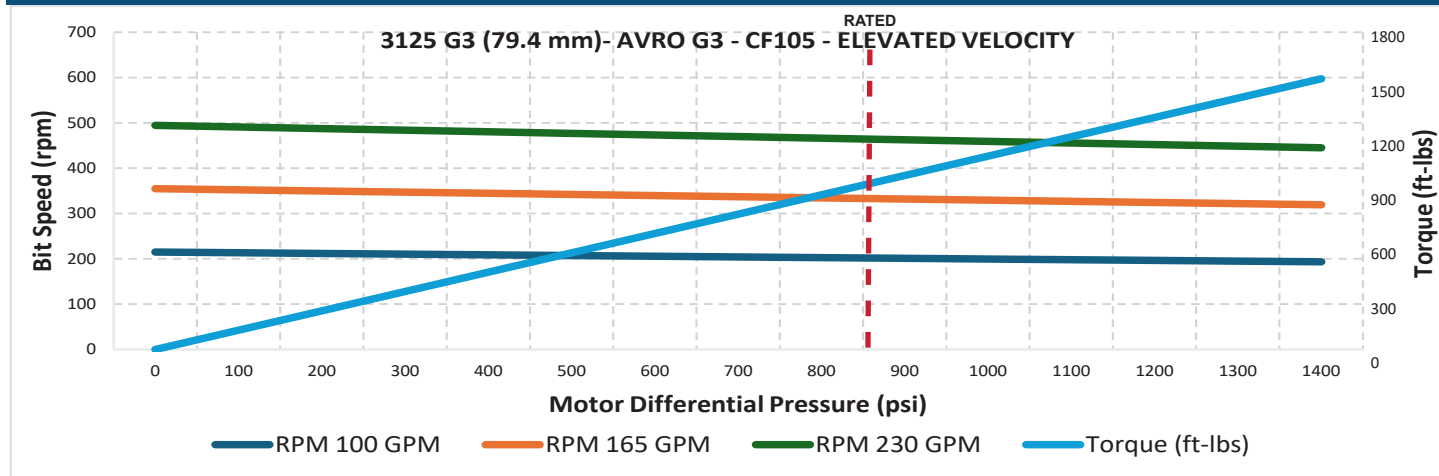
## Performance Output

|                               |                                    |
|-------------------------------|------------------------------------|
| Maximum Differential Pressure | 850 psi (5.85 MPa)                 |
| Stall Differential Pressure   | 1,270 psi (8.78 MPa)               |
| Maximum Torque                | 1,090 ft-lbs (1,477.8 Nm)          |
| Stall Torque                  | 1,630 ft-lbs (2,210 Nm)            |
| Torque Slope                  | 1.28 ft-lbs/psi (0.186 ft-lbs/kPa) |

## MECHANICAL LIMITS

|                    |                        |                             |                          |
|--------------------|------------------------|-----------------------------|--------------------------|
| Max WOB @ 100 RPM  | 25,000 lb (11,120 daN) | Max Pull @ 200 RPM          | 18,000 lb (8,010 daN)    |
| Max WOB @ 200 RPM  | 22,000 lb (9,790 daN)  | Torsional Yield             | 2,750 ft-lbs (3,729 Nm)  |
| Max WOB @ 300 RPM  | 18,000 lb (8,010 daN)  | Tensile Yield – Housing     | 225,600 lb (100,350 daN) |
| Max Pull @ 100 RPM | 22,000 lb (9,790 daN)  | Tensile Yield – Mandrel     | 180,000 lb (80,070 daN)  |
|                    |                        | Tensile Yield – Motor Catch | 68,000 lb (30,250 daN)   |

## Performance Curve



Performance data is provided for reference only. Specifications are subject to change without notice.

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# 3125 G3 (79.4 mm)- AVRO G3 - CF105 - ELEVATED VELOCITY

5/6 - 5.0 | CF105 PERFORMANCE FAMILY



## GENERAL / DIMENSIONS

|                         |               |                      |                                     |
|-------------------------|---------------|----------------------|-------------------------------------|
| Motor Size / Generation | 3125 G3       | Motor / Model        | Avro G3 - CF105 - Elevated Velocity |
| Supplier / Source       | TTC           | Lobe / Configuration | 5/6 - 5.0                           |
| Overall Motor Length    | 4.313 m       | Overall Motor Weight | TBD                                 |
| Maximum Temperature     | 300°F (149°C) | Recommended Bit Size | 4-1/8" to 5-1/2" (104.8 - 139.7 mm) |

## Recommended Operating Limits

|               |                           |
|---------------|---------------------------|
| Flow Range    | 80–210 gpm (303–795 LPM)  |
| Ultimate Flow | 235 gpm (889.57 LPM)      |
| Speed Range   | 211–555 rpm               |
| Speed Ratio   | 2.64 rev/gal (0.70 rev/L) |

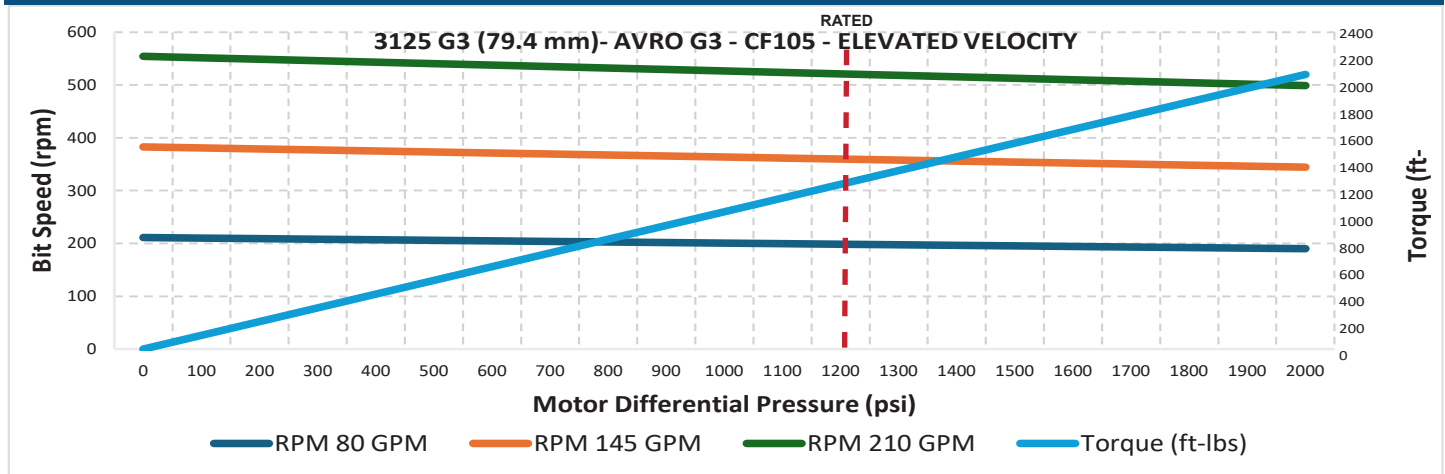
## Performance Output

|                               |                                   |
|-------------------------------|-----------------------------------|
| Maximum Differential Pressure | 1,210 psi (8.36 MPa)              |
| Stall Differential Pressure   | 1,820 psi (12.54 MPa)             |
| Maximum Torque                | 1,260 ft-lbs (1,708 Nm)           |
| Stall Torque                  | 1,900 ft-lbs (1,576 Nm)           |
| Torque Slope                  | 1.04 ft-lbs/psi (0.15 ft-lbs/kPa) |

## MECHANICAL LIMITS

|                    |                        |                             |                          |
|--------------------|------------------------|-----------------------------|--------------------------|
| Max WOB @ 100 RPM  | 25,000 lb (11,120 daN) | Max Pull @ 200 RPM          | 18,000 lb (8,010 daN)    |
| Max WOB @ 200 RPM  | 22,000 lb (9,790 daN)  | Torsional Yield             | 2,750 ft-lbs (3,729 Nm)  |
| Max WOB @ 300 RPM  | 18,000 lb (8,010 daN)  | Tensile Yield – Housing     | 225,600 lb (100,350 daN) |
| Max Pull @ 100 RPM | 22,000 lb (9,790 daN)  | Tensile Yield – Mandrel     | 180,000 lb (80,070 daN)  |
|                    |                        | Tensile Yield – Motor Catch | 68,000 lb (30,250 daN)   |

## Performance Curve



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