# *Griffith*™Force Double Acting Hydraulic Drilling Jar

**Technical Summary**

The *Griffith*™Force double-acting hydraulic drilling jar is engineered based off of our long, reliable history of *Griffith* products. This jar features a high-yield mechanical construction, optimum protective parts material, and enhanced high-pressure sealing technology for dependable performance when jarring for extended periods.

The *Griffith*Force drilling jar is hydrostatically balanced, and a newly designed pressure retaining system protects the tool from the high internal pressures generated during jarring. The tool has a shorter overall length and a high maximum overpull load limit delivering high energy impacts on demand. This jar is the ideal solution for drilling and fishing applications.


**Features and Benefits**

- **Compatibility** - large inner diameter for use with ball and dart activated tools
- **Versatility** - fully hydraulic jar ideal for placement in extended reach applications
- **Infinitely variable impacts** - provides hydraulic metering with a high maximum overpull load limit
- **Continuous and consistent jarring performance** - retains hydraulic delay in both directions
- **Reliable design** - high-yield material construction combined with optimum protective part material

## Technical Specifications

| | | |
|---|---|---|
| Tool O.D. (+API drill collar tolerance) | 6.5 in. | 8 in. |
| | 165 mm | 203 mm |
| Tool I.D. | 2.75 in. | 3.06 in. |
| | 70 mm | 78 mm |
| Length (extended) | 19.8 ft | 19.6 ft |
| | 6.03 m | 5.97 m |
| Weight | 1510 lbs | 2300 lbs |
| | 686 kg | 1045 kg |
| Stroke up (free stroke) | 6 in. | 6 in. |
| | 152 mm | 152 mm |
| Stroke down (free stroke) | 6 in. | 6 in. |
| | 152 mm | 152 mm |
| Maximum load during hydraulic delay | 180,000 lbf | 300,000 lbf |
| | 80,068 daN | 133,400 daN |
| Maximum tensile load after jarring | 880,000 lbf | 1,400,000 lbf |
| | 391,450 daN | 622,700 daN |
| Maximum torsional load (to yield body connections) | 50,000 lb-ft | 95,000 lb-ft |
| | 68,000 N-M | 128,800 N-M |
| Maximum recommended hole diameter (hole openers not recommended) | 12.25 in. | 17.5 in. |
| | 311 mm | 445 mm |
| Pump open area | 11.0 $in^2$ | 14.2 $in^2$ |
| | 71 $cm^2$ | 92 $cm^2$ |

Wellbore Technologies

wt-drillingtools@nov.com

nov.com/drillingjars