

Griffith Force Double Acting Hydraulic Drilling Jar

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 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)	4.75 in.	6.5 in.	8 in.	9.5 in.
	120.65 mm	165 mm	203 mm	241.3 mm
Tool I.D.	2.25 in.	2.75 in.	3.06 in.	3.06 in.
	57.15 mm	70 mm	78 mm	78 mm
Tool length (extended)	17.5 ft	19.8 ft	19.6 ft	26.5 ft
	5.33 m	6.03 m	5.97 m	8.07 m
Tool length including flex sub	31.8 ft	31.8 ft	31.8 ft	31.8 ft
	9.69 m	9.69 m	9.69 m	9.69 m
Weight	685 lbs	1,510 lbs	2,300 lbs	4,740 lbs
	310.7 kg	686 kg	1,045 kg	2,150 kg
Stroke up (free stroke)	6 in.	6 in.	6 in.	7 in.
	152.4 mm	152 mm	152 mm	177.8 mm
Stroke down (free stroke)	5.5 in.	6 in.	6 in.	7 in.
	139.7 mm	152 mm	152 mm	177.8 mm
Maximum load during hydraulic delay	95,000 lbf	180,000 lbf	300,000 lbf	550,000 lbf
	42,258 daN	80,068 daN	133,400 daN	2,446,522 daN
Maximum tensile load after jarring	460,000 lbf	880,000 lbf	1,400,000 lbf	2,550,000 lbf
	204,618 daN	391,450 daN	622,700 daN	11,342,970 daN
Maximum torsional load (to yield body connections)	21,200 lb-ft	50,000 lb-ft	95,000 lb-ft	201,000 lb-ft
	28,743 N-M	68,000 N-M	128,800 N-M	272,520 N-M
Maximum recommended hole diameter (hole openers not recommended)	7.875 in.	12.25 in.	17.5 in.	26 in.
	200 mm	311 mm	445 mm	660.4 mm
Pump open area	6.5 in. ²	11 in. ²	14.2 in. ²	21.1 in. ²
	42 cm ²	71 cm ²	92 cm ²	136.13 cm ²

