WZL VHJDA "FALCON"

Vertical Double-Acting Hydraulic Jar

BUILT FOR DEEP VERTICAL GAS WELLS

Designed in close consultation with our Middle East customers, the Falcon double-acting vertical hydraulic jar (VHJDA) handles extreme drilling conditions in deep vertical gas wells to free stuck drill strings from tight spots.



FEATURES & BENEFITS

- Jar sized to drill collars—not hole size—to balance bending strengths
- Optimized connections throughout tool:
  - Different optimized connections for each location in the tool
  - Connection and seal face repairability integrated into design
- Renowned WZL star spline torque transmission
- Integrated flex collars improve reliability and provide flexibility to match drill string connections
- Large internal radial support
- Optimized mandrel geometry, connections and impact locations

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SPECIFICATIONS – IMPERIAL

Nominal BA OD (in)	Drill collar OD (in)	Length (ft)	Thru bore (in)	Tensile yield (lb)	Torsional limit (ft-lb)	Pump open area (in²)	Max pull during delay (lb)	Max slack during delay (lb)	Free stroke up / down (in)	Total stroke (in)	Approx. weight (lb)
9 ⅛	8.00 or 8.50	30.7	3.00	1,600,000	150,000	38.5	300,000	300,000	8.0	25.0	4,550
10	9.50	30.0	3.00	2,200,000	175,000	44.2	350,000	350,000	8.0	25.0	5,345

Specifications are based on as-new condition and are subject to change without notice.

SPECIFICATIONS – METRIC

Nominal BA OD (mm)	Drill collar OD (mm)	Length (m)	Thru bore (mm)	Tensile yield (daN)	Torsional limit (N·m)	Pump open area (mm²)	Max pull during delay (daN)	Max slack during delay (daN)	Free stroke up / down (mm)	Total stroke (mm)	Approx. weight (kg)
232	203 or 216	9.3	76	711,700	203,400	24,800	133,400	133,400	200	640	2,060
254	241	9.1	76	978,600	237,300	28,500	155,700	155,700	200	640	2,420

Specifications are based on as-new condition and are subject to change without notice.