WZL HMDA

Double-Acting Hydraulic Mechanical Jar

LATCHED FOR SAFETY AND PREDICTABILITY

For safe handling and predictable jarring action during operation, the WZL HMDA jar provides effective jarring action in both directions.



FEATURES & BENEFITS

Latched for safety and predictability

The WZL HMDA is a double-acting hydraulic jar designed to deliver a hydraulic delay when jarring in both the up and down directions. What makes the HMDA different is the mechanical latch that keeps the jar locked in the neutral position. This latch eliminates unexpected jarring during operation and handling – and keeps people safe.

Simple operation

Like our HJDA, the HMDA jar incorporates a Visco Jet metering device that ensures consistent delay times over a full range of operating temperatures, up to 250°F (120°C) with standard seals or 450°F (230°C) with the addition of heat-resistant seals. Delayed jar firing allows the driller to control loads.

The HMDA can be run in tension or in compression within the preset latch setting, and operates via a simple up and down motion that is unaffected by right or left hand torque.

Built to last

The HMDA, like all other WZL jars, is designed without any housing ports to the annulus. Such ports can restrict jar stroke, impact strength and seal integrity. The spline drive and latch mechanism are enclosed in a single oil chamber and the double-acting hydraulic valves in a second oil chamber. Minimizing the number of oil chambers reduces the seals required, increasing jar reliability.

All external sealing surfaces are coated with wear and corrosion resistant tungsten carbide.

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SPECIFICATIONS – IMPERIAL

Nominal OD (in)	Length (ft)	Thru bore (in)	Tensile yield (lb)	Torsional limit (ft-lb)	Pump open area (in²)	Up / down latch setting (lb)	Max pull / push during delay (lb)	Free stroke up & down / total stroke (in)
4 ¾	21.5	2.25	370,600	22,800	11.8	55,000 / 30,000	85,000	8.0 / 25.0
6 ½	23.0	2.75	1,220,000	63,700	23.8	90,000 / 40,000	175,000	8.0 / 25.0
8	23.2	2.81	1,293,900	89,400	30.7	100,000 / 45,000	300,000	8.0 / 25.0
9 ½	24.5	3.00	1,658,500	139,400	41.3	110,000 / 50,000	350,000	8.0 / 25.0

Specifications are based on as-new condition and are subject to change without notice. As-new OD is typically the nominal OD plus API drill collar allowance.

SPECIFICATIONS – METRIC

Nominal OD (mm)	Length (m)	Thru bore (mm)	Tensile yield (daN)	Torsional limit (N·m)	Pump open area (mm²)	Up / down latch setting (daN)	Max pull / push during delay (daN)	Free stroke up & down / total stroke (mm)
121	6.6	57	164,800	30,900	7,600	24,500 / 13,300	37,800	200 / 640
165	7.0	70	542,700	86,400	15,400	40,000 / 17,800	77,800	200 / 640
203	7.0	70	575,500	121,200	19,800	44,500 / 20,000	133,400	200 / 640
241	7.5	76	737,700	189,000	26,600	48,900 / 22,200	155,700	200 / 640

All HMDA drilling jars can be converted to a Hydraulic Mechanical Single-Acting (HMSA) drilling jar with the removal of the down firing hydraulic valve. Contact a WZL representative for details.

Specifications are based on as-new condition and are subject to change without notice. As-new OD is typically the nominal OD plus API drill collar allowance.

EXPAND YOUR OPTIONS WITH CONVERTIBLE JARS

The WZL HMDA can be easily converted to a Double-Acting Hydraulic Jar (HJDA) or a Hydraulic Mechanical Single-Acting jar (HMSA). The HMSA conversion is done with the simple removal of the down-firing hydraulic valve. In addition to giving you options with a single asset and reducing inventory, the convertibility of our HMDA gives you flexibility to move these assets into any region for any application.

CONTACT US FOR PRICING AND FURTHER DETAILS: wzlindustries.com/contact/