

**FEATURES**

- The mechanical lock prevents triggering until the preset load is exceeded
- The hydraulic time delay enables triggering at any load above the preset lock load
- The pressure-compensated design helps eliminate sensitivity to changes in pressure or temperature
- The sealed design helps protect seals and impact surfaces for greater reliability

**BENEFITS**

- Helps minimize the risk of stuck or lost tool string in cased-hole logging and perforating
- Does not interrupt or impede tool-string functionality
- Can be activated multiple times in multiple intervals
- Arrives ready to run
- Rugged enough for multiple jobs before redress is required, an advantage in remote or international locations

**FISHING AVOIDANCE**

## LockJar® mono-conductor E-line hydraulic jar

Simple, effective device for freeing a stuck tool string during cased-hole logging

Halliburton's LockJar® Mono-Conductor E-Line Jar provides a simple way to protect against time-consuming and expensive stuck strings and fishing jobs in cased-hole logging and perforating operations.

Available in 1.69-in. OD and 2.75-in. OD sizes, the mono-conductor LockJar is extremely effective in releasing stuck perforating guns and bridge plugs. It can be activated many times in multiple intervals to free a stuck tool string and preserve a logging run without costly delays.

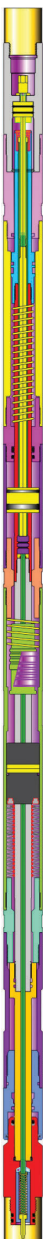
Rated to 400°F and 25,000 psi, the versatile LockJar hydraulic jar is hydraulically actuated and equipped with a mechanical lock that can be manually adjusted during shop assembly to trigger at a desired over pull. This provides a simple yet very effective means of freeing a stuck tool string and significantly reduces risk when perforating a well or recovering pipe.

All internal parts of the LockJar hydraulic jar are sealed and segregated from the wellbore, minimizing wear on critical parts and increasing tool reliability both as a data transmitter and as a power supply.

Rugged enough for multiple jobs before redress is required, the Lockjar hydraulic jar arrives ready to run.

Since its commercial introduction in 2000, the LockJar hydraulic jar has routinely freed stuck tool strings in areas where fishing jobs are common and unproductive rig time is prohibitive.

The LockJar tool is also available for openhole operations in a multi-conductor version.



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## LockJar® mono-conductor jar

### DIMENSIONS AND RATINGS

OD	MAXIMUM TEMPERATURE	MAXIMUM PRESSURE	MINIMUM HOLE	MAXIMUM HOLE	LENGTH	WEIGHT
1.69 in. (42.86 mm)	400°F (204°C)	25,000 psi (172 MPa)	2 in. (5.1 cm)	* *	61 in. (154.9 cm)	37 lb (16.8 kg)
2.75 in. (69.85 mm)	400°F (204°C)	25,000 psi (172 MPa)	4 in. (10.2 cm)	* *	76 in. (193 cm)	101 lb (45.8 kg)

\* Tool not restricted to hole sizes over minimum hole

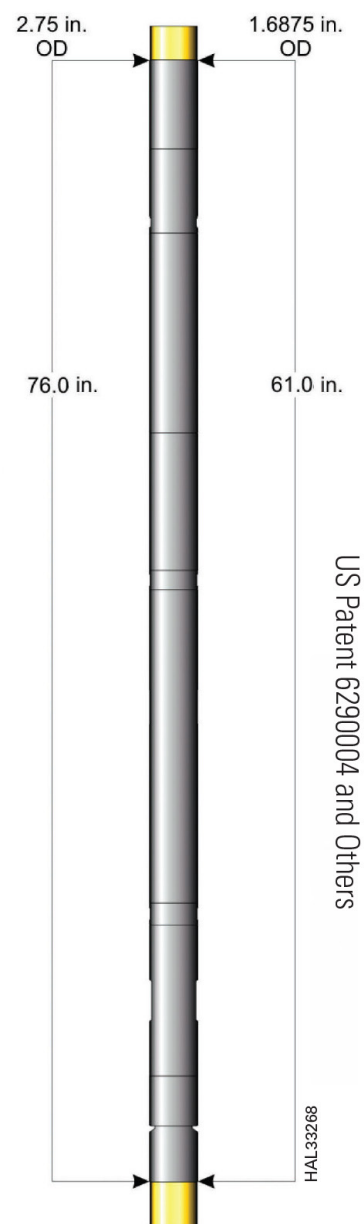
### Physical strengths\*

OD	MAXIMUM TENSION	MAXIMUM COMPRESSION
1.69 in. (42.86 mm)	40,000 lb (18,141 kg)	40,000 lb (18,141 kg)
2.75 in. (69.85 mm)	100,000 lb (45,351 kg)	100,000 lb (45,351 kg)

\* Strengths apply to new assemblies at 70°F (21°C) and 0 psi (0 MPa).

### Hardware characteristics

OD	ACTUATION TYPE
1.69 in. (42.86 mm)	Hydraulic Time Delay with Mechanical Lock
2.75 in. (69.85 mm)	Hydraulic Time Delay with Mechanical Lock
OD	LOCK SETTING
1.69 in. (42.86 mm)	300 lb (136.08 kg) to 1000 lb (453.59 kg)
2.75 in. (69.85 mm)	500 lb (226.80 kg) to 1500 lb (680.39 kg)
OD	STROKE LENGTH
1.69 in. (42.86 mm)	4.0 in. (10.16 cm) total (1 in. (2.54 cm) metering, 3.0 in. (7.62 cm) jarring)
2.75 in. (69.85 mm)	4.25 in. (10.80 cm) total (.75 in. (1.91 cm) metering, 3.5 in. (8.89 cm) jarring)
OD	COMBINABILITY
1.69 in. (42.86 mm)	Go Type A
2.75 in. (69.85 mm)	Go Type A or B
OD	IMPACT VALUE
1.69 in. (42.86 mm)	Variable with Hole Conditions
2.75 in. (69.85 mm)	Variable with Hole Conditions



For more information, contact your local Halliburton representative or visit us on the web at [www.halliburton.com](http://www.halliburton.com)

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