XCS™ E-Line Jar

Ensures reliability in hostile environments with reduced maintenance and operating costs

Applications

- Cased-hole
- Logging
- Perforating
- Pipe recovery
- Plug setting

Features and Benefits

- Fully adjustable on the surface while in the toolstring
- Pressure and temperature compensation system with mechanical components isolated from wellbore fluids
- Short and compact design keeps rigups as short as possible
- Instant and unlimited activations with no waiting period once the pre-set is reached
- Unlimited activation cycles via resetting downhole immediately under its own weight
- Maintenance can be performed in the field within a confined space by a certified technician
- Compact design does not require auxiliary tools to enhance impact force or duration

Tool Description

The Weatherford XCS E-line jar is a powerful yet cost-effective way to reduce risk in electric wireline cased-hole operations. The sealed, oil-filled design is suitable for hostile environments and also benefits from reduced maintenance and operating cost.

With the smaller cables used for cased-hole operations, there is often a very limited amount of overpull available to free stuck tools. The XCS E-line jar acts to greatly increase the force available at the cablehead through using energy stored in compressed springs and the wireline itself to create a powerful upwards impulse on the tools. As the force acts on the bottom of the jar, the cablehead is protected from the impact and remains unaffected.

The jar activation force can be easily adjusted at the surface while in the string to account for different operations.

Weatherford®

XCS™ E-Line Jar

Available in a range of sizes and with all major types of monoconductor connections, the XCS E-line jar is ideal for most logging, perforating, pipe recovery, and plug setting operations.

Available in standard and high-pressure/high-temperature (HP/HT) specifications.

Specifications

	XCS—Standard			XCS—HP/HT
Diameter	1.688 in. (42.88 mm)	2.125 in. (53.98 mm)	2.750 in. (69.85 mm)	2.125 in. (53.98 mm)
Maximum temperature	350°F (175°C)	400°F (204°C)	400°F (204°C)	500°F (260°C)
Maximum pressure	25,000 psi (172.4 MPa)	25,000 psi (172.4 MPa)	25,000 psi (172.4 MPa)	30,000 psi (206.8 MPa)
Length (closed)	61.79 in. (1.57 m)	64.79 in. (1.65 m)	68.32 in. (1.74 m)	64.79 in. (1.65 m)
Length (open)	67.29 in. (1.71 m)	70.79 in. (1.80 m)	74.42 in. (1.89 m)	70.79 in. (1.80 m)
Approximate weight	36 lb (16.33 kg)	50 lb (22.68 kg)	82 lb (37.19 kg)	56 lb (25.40 kg)
Field adjustability	Up to 1,700 lb (771 kg)	Up to 2,500 lb (1,133 kg)	300–1,500 lb (136–680 kg)	Up to 2,500 lb (1,133 kg)
Total stroke	5.5 in. (139.7 m)	6 in. (152.4 m)	6.1 in. (154.9 m)	6 in. (152.4 m)
Power stroke	4.3 in. (109.2 m)	4.3 in. (109.2 m)	4.57 in. (116.1 m)	4.3 in. (109.2 m)