

Elmar Liquid Seal Slickline Control Head

Mitigate the risk of hydrocarbon release during slickline well interventions. As the primary pressure control device, the Elmar™ liquid seal stuffing box gives positive protection and allows intervention access to wells under pressure.

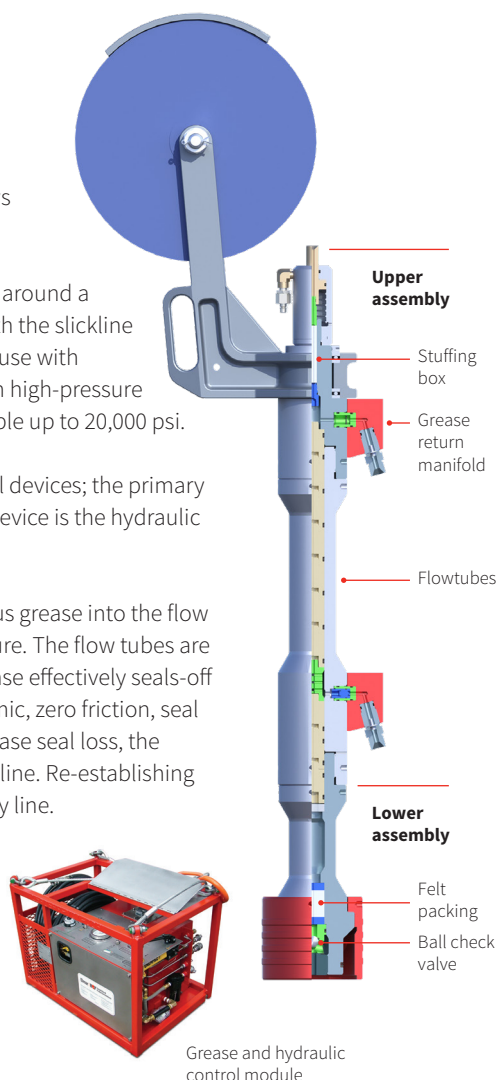
Our liquid seal control head is designed to seal around a slickline while minimizing drag and wear of both the slickline and the pack-off. It is the optimum product for use with slickline and of particular benefit when used on high-pressure gas wells. Our liquid seal control head is available up to 20,000 psi.

The control head provides two pressure control devices; the primary device is the flotube stack and the secondary device is the hydraulic pack-off or stuffing box.

The primary seal is achieved by injecting viscous grease into the flow tube stack at a pressure above wellhead pressure. The flow tubes are closely fitting around the slickline, and the grease effectively seals-off the narrow annular space. This creates a dynamic, zero friction, seal around the moving slickline. In the event of grease seal loss, the stuffing box is used to pack-off around the slickline. Re-establishing grease seal is best achieved around a stationary line.

The liquid seal control head is of a modular design; a common upper assembly and a lower quick union assembly to suit the rest of your equipment. The lower assembly incorporates a ball check valve, felt packings, and an oil chamber.

A compact, air operated grease injection and hydraulic control panel is available for use with the liquid seal control head.



Features and benefits

- Full material traceability and 3rd party independent approval covering API 6A, and NACE (for H₂S)
- 16- and 20-in. sheave brackets with solid lightweight sheave wheels preventing finger entrapment
- Line size kits to suit 0.092 to 0.160 in.
- Line sized parts manufactured from aluminium bronze to ensure no wireline damage
- Packings engineered to suit specific line size, eliminating the need for well site reaming and reducing the chance of premature failures due to improper centralization
- Primary liquid seal ensures packings are in optimum condition in the event of grease seal loss
- Packings available to suit various well conditions, with selection critical for fluid compatibility and reduced friction of the slickline
- Grease injection point with integral and replaceable check valve that eliminates well pressure return to the grease injection unit
- Replaceable manifold block that ensures integral check valve is fully protected
- Felt packings and oil chamber to eliminate dirt and gas ingress
- Compact ball check valve to automatically shut-in the well pressure in event of slickline breaking or being stripped from the rope socket

Options

Line sized kits to suit common slickline sizes
Test plug assembly for stuffing box
Supplied with any industry standard quick unions
Re-dress seal kit
Grease and hydraulic control panels
Grease Pump WIWA 235:1
Stuffing Box Hand Pump
Grease and hydraulic hose assemblies 50- and 100-ft long
Wireline grease

Weights and dimensions

	Height	Weight
Liquid seal slickline control head	62 in. (157 cm)	202 lb (92 kg)