

Elmar Hydraulic Tool Trap with External Indicator

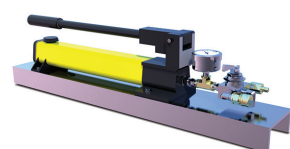
Prevent the cost and inconvenience of losing wireline tools downhole with an Elmar™ tool trap.

Our hydraulic tool trap features an external indicator and is installed between the wireline valve and the lubricator string.

It prevents the loss of wireline tools downhole in the event of the wire being pulled-off the rope socket, by retaining the dropping tool on a fast-acting flapper.

The flapper has an opening large enough to prevent damage to the wireline, but smaller than the tool string. The flapper is opened by a hydraulic actuator, through an external handle, connected to the flapper with a low-torque pressure-balanced shaft. The external handle doubles as a tool passage indicator. The tool string may be pulled freely upwards through the tool trap. The flapper will open, together with the external handle, indicating tool passage. As soon as the string bottom has cleared the flapper, the flapper will close into the trap position, driven by a torsion spring. The flapper can be opened remotely when running a tool in the well by activating the piston in the hydraulic actuator. Pumping back the piston to its original position allows the flapper to return to its trap position.

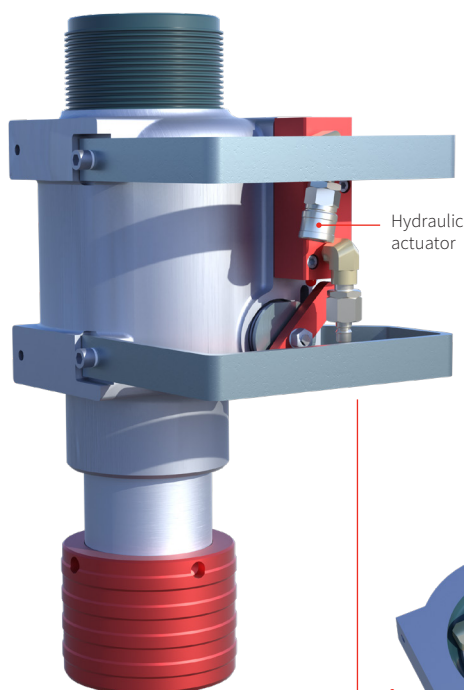
The tool trap can be operated by a dual output manual pump or with one of our hydraulic control modules.



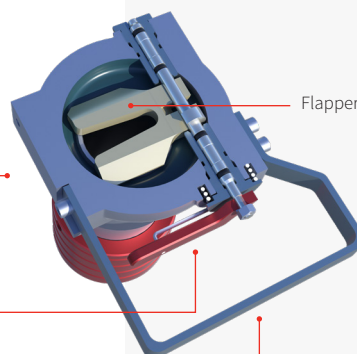
Hand pump



Twin hose assembly with quick connectors



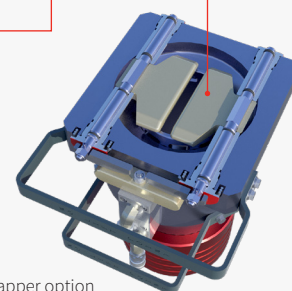
Hydraulic actuator



Flapper

Handle/indicator

Hydraulic actuator protection and lift handle



Dual flapper

Dual flapper option

Features and benefits

- Pressure-balanced flapper shaft ensuring fast closing of the trap
- Positive tool passage indicator showing the tool is safely in the lubricators
- Remote hydraulic operation. Enhanced operational safety with no need for working at height or near the wellhead
- Can be operated manually in case of hydraulic failure to prevent NPT
- Full material traceability and 3rd party independent approval covering API 6A, and NACE (for H₂S)

Options

Supplied with any industry standard quick unions or flange/hub connections

Dual flapper: Low friction coated flapper

Manual tool trap with external indicator

Hand pump and twin hose assembly