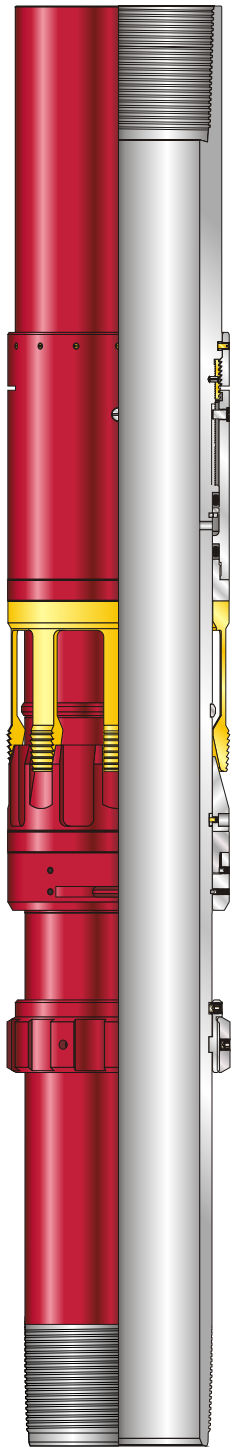
Weatherford®



# SHR Holddown Sub



Weatherford's SHR holddown sub is used to prevent liners from being pushed up by frictional or hydraulic forces. The SHR is set before the running tool is released. After the SHR is set, it can be used to give a positive indication of running tool release by picking up the running string.

Differential hydraulic pressure across the hydraulic cylinder activates the SHR, forcing the slips to bite into the host casing. A bearing in the SHR allows for rotation of the liner after the SHR has been set.

## Applications

- Light liners
- Liners that can be forced uphole by frictional or hydraulic forces
- Liners run in conjunction with an inner string
- Liner applications in which confirmation that the running tools have been released is difficult

## Features, Advantages and Benefits

- The SHR can be released at a predetermined overpull. With this feature the liner can be retrieved even if the SHR has been set.
- High-torque, one-piece mandrel is equipped with premium connections that meet or exceed the torque of liner connections.
- Bearing allows rotation of the liner after the SHR has been set.
- Key screws rotationally lock the hydraulic cylinder to the mandrel. This feature prevents seal damage during rotation, ensuring that the SHR cylinder does not become a possible leak path in later well life.
- Large annular flow area allows for high circulation rates past the SHR assembly to aid removal of debris during well cleaning and improve the quality of cement displacement.
- Premium designed aluminum shear screws ensure accurate predetermined setting pressures. With this advantage, hydraulic events can be planned accurately and executed with a high degree of safety.
- The hardened slips can bite into the hardest grades of host casing and are protected by the cone during deployment. This feature protects the SHR from damage, even if it is used on a liner that is being drilled down.

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## Specifications

Contact an authorized Weatherford representative.

## Options

- Standard metallurgies in most sizes are L-80 and P-110 (125 ksi); other metallurgies are available on request.
- Standard connection is VAM® TOP® HT in most sizes; other connections are available on request.



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