

FlexPac Hold-Down Tool

Keeps string in place during stimulation, perforation, and well test operations

APPLICATIONS

- Downhole testing
- Tubing-conveyed perforating
- Well testing
- Stimulating

BENEFITS

- Operational simplicity
- High reliability
- Durability in harsh environments

FEATURES

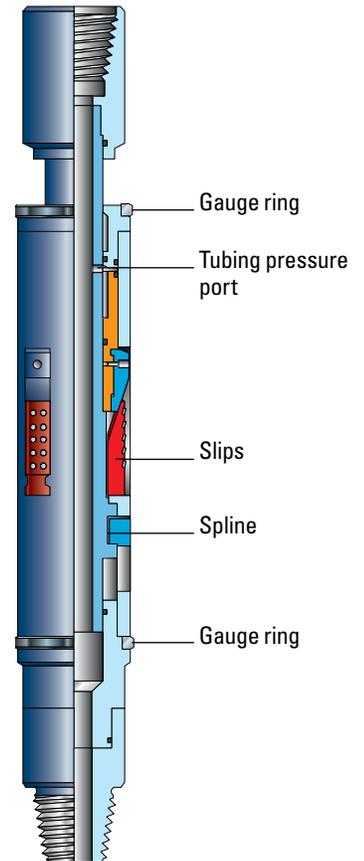
- Rugged, modular design allows running one or more hydraulic hold-down tools in any position in the string
- Slips can be mechanically retracted
- Gauge rings centralize the slip section for improved grip
- Rugged slip design prevents upward movement from maximum hydraulic force
- Tungsten-carbide slip inserts grip even the hardest casings
- Slips can be activated only if hydraulic hold-down tool is in compression

The FlexPac* service packer hold-down tool (FLXH) prevents the string from moving uphole as a result of hydraulic forces acting below the packer during stimulation or when activating a firing head. The slip design is similar to the proven hold-down section of the PosiTrieve* downhole packer with hold-down section.

When tubing pressure becomes greater than annulus pressure, a piston moves down, activating the hold-down slips. The tungsten-carbide inserts on the hold-down slips effectively retain the upward hydraulic force that results from the maximum differential across the packer.

When the annulus pressure becomes greater than the tubing pressure, the piston moves up, retracting the hold-down slips. A straight-upward pull retracts the slips mechanically.

The FLXH has a rugged, simple design and is easily redressed between operations or converted for use with different casing weights.



FLXH tool.

Specifications

Model	FLXH-G	FLXH-F
Casing size and weight, in, lbf/ft	4½, 9.5 to 13 5, 11.5 to 21 5½, 20 to 23	6¾, 24 7, 17 to 38 7¾, 20 to 39
Tool ID, in [mm]	1.125 [29]	2.250 [57]
Differential pressure, psi [MPa]	15,000 [103]	15,000 [103]
Temperature, degF [degC]	340 [171]	340 [171]
Length, ft [m]	5 [1.52]	6.47 [1.97]
Weight, lbf [kg]	125 [57]	340 [154]
Service (NACE International MR0175/ISO 15156)	H ₂ S, acid	H ₂ S, acid
Tensile load, lbf [kN]	220,300 [891]	188,400 [838]
Tensile load with working pressure, lbf [kN]	179,000 [796]	171,300 [762]
Connections	2¾ REG or 2¾ PH-6	3½ IF or 3½ PH-6