

Hydraulic Hold-Down

Reliable pressure-activated hold-down device

APPLICATIONS

- Downhole testing
- Well testing
- Stimulation operations

BENEFITS

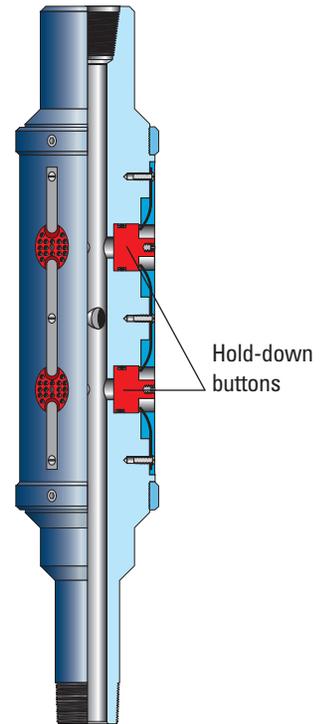
- Simple operation
- High reliability
- Durability in harsh environments

FEATURES

- Robust, modular design
- Rugged slip design to prevent upward movement
- Tungsten-carbide slip inserts
- Button slips that are activated by zone pressure only
- Gauge rings that centralize the tool
- One or more hydraulic hold-downs in any position in the string
- Prevention of upward movement from annulus pressure below the packer
- Hold-down buttons that grip even in the hardest casing grades
- Hold-down buttons that cannot activate prematurely
- H₂S service per NACE MR0175/ISO 15156

The hydraulic hold-down (HHD) is fitted directly above the PosiTest* retrievable compression packer when stimulation is required. This combination functions in the same manner as the PosiTrieve* downhole packer with hold-down section; all hydraulic hold-down modules can be used with the long-stroke packer.

Whenever tubing pressure exceeds annulus pressure, the buttons in the HHD hydraulic hold-down are forced outward. In this position, the specially designed tungsten-carbide teeth in the hold-down buttons grip the casing and keep the packer set. When the upper annulus pressure exceeds tubing pressure, the spring-loaded buttons automatically retract.



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Specifications

Model	HHD-D
Casing size range, in, lbm/ft	9 5/8, 43.5–53.5
Max. OD, in [mm]	8.31 [211]
Tool ID, in [mm]	2.25 [57.2]
Pressure ratings	
Differential pressure, psi [MPa]	15,000 [103]
ID test pressure, psi [MPa] (packer not set) at surface	10,000 [69]
Temperature, degF [degC]	340 [171]
Length, ft [m]	4.30 [1.31]
Weight, lbm [kg]	380 [172]
Service (NACE MR0175/ISO 15156)	H ₂ S, acid
Tensile load, lbf [kN]	458,000 [2,037]
Connection	
Top	3 1/2 EUE, IF or PH-6
Bottom	3 1/2 EUE, IF or PH-6