



Description

The Inflate Release System enables multiple inflate tests without having to come out of the hole after each test. The Release System consists of a hydraulic piston/cylinder arrangement that acts as a valve to facilitate mud flow movement in two directions:

- Inflation = Inflate Pump to packers.
- Deflation = Packers to well annulus.

During 'inflation', discharge from the Inflate Pump causes the lower half of the Release System (and string below) to be lifted. This lift action aligns the Release System flow ports with flow ports from the Inflate Pump which results in inflation of the packers with drilling mud.

During deflation, (end of a test), the Release System is activated for deflation by pulling on the drill string with approximately 22,000 Lbs (10,000 DaN) above string weight. This force causes the mud pressure in the release cylinder to exceed the set pressure of the release valves causing the system to 'release'. Upon release, the lower half of the Release System (and string below) drops, and the flow ports in the packers line up with the well annulus resulting in 'deflation' of the packers.

Specifications

	STANDARD
O.D.	5.5"
I.D.	1"
Length	1.12 m (3.67')
Pressure Rating	5,000 psi
Release Pressure	1750 psi (Adjustable)
Max Lift@ 1,500 PSI	17,700 lbs
Temperature Rating	-40°F to 250°F
Tensile Strength	250,000 lbs
Connections	API 4 FH Pin API 4 FH Box
Service	H2S + CO2