



Description

The Inflate Pump is a down hole piston pump which delivers drilling fluid from the well bore to the inflate packers. The Inflate Pump is activated by rotating the drilling string at approximately 60 R.P.M.

The use of a Drag Spring at the bottom of the test string will prevent the lower half of the Inflate Pump from rotating while pumping.

With the lower section locked, the upper half of the Inflate Pump rotates on roller bearings and roller thrust bearings to carry the drill string weight below. This action engages the drive and camshaft assembly which in turn activates four pistons, arranged radially in connected pairs.

The pumping action of the pistons pulls drilling fluid into the bottom of the pump through a Suction Screen which filters out cuttings that could impact pump and packer operational performance.

Suction valves have been designed to sense discharge pressure and will stop the pumping action when a desired preset pressure is achieved (usually 1500 psi or 10,340 kPa).

Specifications

	STANDARD
O.D.	5.5"
I.D.	0.75"
Length	0.99 m (3.25')
Pressure Rating	5,000 psi
Capacity	2.5 L/min (1.07 USGPM) at 80 RPM
Temperature Rating	-40°F to 250°F
Tensile Strength	250,000 lbs
Connections	4.00 API FH Pin 3.5" API IF Box
Service	H2S + CO2