

The Free Point Indicator is an electromechanical assembly designed to accurately measure torque or stretch in harsh conditions. The basic Free Point tool assembly consists of bow spring or magnet, upper and lower anchors, and a sensor section to determine stuck point. Additional components that must be run with the Free Point tool assembly are: sinker bars to overcome the holding ability of the anchors, a collar locator (CCL) to determine depth and a slack joint to relieve weight above the tool assembly when at the correct depth for making a measurement.

- Measures both torque and stretch
- Identifies neutral weight at free point by plotting torque reading vs driller's weight
- Reduced friction/drag, and therefore easier to deploy in deviated wells
- Controllable anchoring force instead of pre-defined force, as with springs
- Faster setup time, shorter tool string
- Simple maintenance, can be redressed at wellsite
- Crossovers to various service company connections available
- In many cases, eliminates the need for a slack joint or sinker bars
- Shear pins allow for retrieval if communication to deployed tool is lost

Specifications				
Temperature Rating	500° F		260° C	
Pressure Rating	30,000 psi		206.8 MPa	
Diameter	.6875 in. (17.5 mm)	1 in. (25.4 mm)	1.375 in. (35 mm)	1.625 in. (41.3 mm)
Length	118 in. (2,997 mm)	137.5 in. (3,493 mm)	136.75 in. (3,473 mm)	133.5 in. (3,391 mm)
Weight	9 lb. (4.1 kg)	20.5 lb. (9.3 kg)	38 lb. (17.3 kg)	50 lb. (27.7 kg)
Minimum Pipe Diameter	1 in. (25.4 mm)	1.5 in. (38.1 mm)	1.75 in. (44.5 mm)	1.75 in. (44.5 mm)
Maximum Pipe Diameter	5.625 in. (142.9 mm)			
Number of Arms	3		4	
Distance Between Clamps	52 in. (1,321 mm)			

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Courtesy of GE Oil & Gas