

FLOW RELEASE SPEAR

APPLICATIONS

- Standard fishing operations
- Heavy duty fishing operations
- Jetting and pick up operations

FEATURES

- Flow activated
- Enclosed Spring design
- Multi-function operation
- Fully adjustable activation pressure
- Easily redressed
- Compact and rugged design
- Interchangeable Grapples

ADDITIONAL INFORMATION

- All tools are supplied with Viton O-rings and music wire Springs. Other options available on request.
- Larger diameter, fluted Grapple housings are available for large bore operations.
- Interchangeable Grapples enable each tool size to catch a large range diameters.
- Tools are manufactured from mild steel as standard. Other materials are available on request.
- Bespoke designs available to suit specific diameters and job specific applications

The WellEnTech Flow-Release Spear is a device for locating, engaging and pulling slick tool ID's and tubulars. The Grapple can be functioned either mechanically or hydraulically in order to engage the fish and a strong Spring ensures the Grapple is fully supported when located inside the fish. Flow through the tool and a pull load disengages the tool from the fish.

TECHNICAL SPECIFICATION

OD (Inches)	Length (Inches)	Connection	Catch range (Inches)	Tensile Strength (lbs)	Service	Assembly No.	Redress kit No.
1.750	17.82	1-1/4"AMMT Box	1.000 to 1.625	15,400	H2S	185-1750-A001	185-1750-R001
				21,170	Std.	185-1750-A002	185-1750-R002
2.000	17.34	1-1/4"AMMT Box	1.390 to 1.938	45,800	H2S	185-2000-A001	185-2000-R001
				63,000	Std.	185-2000-A002	185-2000-R002
2.375	17.50	1-1/2"AMMT Box	1.813 to 2.500	61,700	H2S	185-2375-A001	185-2375-R001
				84,800	Std.	185-2375-A002	185-2375-R002
2.875	21.30	2-3/8" PAC Box	1.968 to 2.750	87,200	H2S	185-2875-A001	185-2875-R001
				120,000	Std.	185-2875-A002	185-2875-R002
3.125	24.00	2-3/8" PAC Box	2.250 to 3.000	97,800	H2S	185-3125-A001	185-3125-R001
				134,500	Std.	185-3125-A002	185-3125-R002
4.250	25.25	2-3/8" PAC Box	3.188 to 4.125	120,100	H2S	185-4250-A001	185-4250-R001
				165,000	Std.	185-4250-A002	185-4250-R002
5.500	31.00	2-3/8" PAC Box	4.813 to 5.500	218,500	H2S	185-5500-A001	185-5500-R001
				300,400	Std.	185-5500-A002	185-5500-R002

OPERATION

To mechanically function the tool, an axial downward load (in excess of the Spring force) enables the Grapple to automatically engage the fish. The Spring then pushes the Grapple back to the supported position, and an applied axial load causes the Grapple to bite into the fish, this over pull will verify engagement.

To release, fluid flow through a Nozzle fitted to the nose of the Core creates an internal pressure which pumps the Grapple back to the de-supported position enabling the Grapple to be pulled free from the fish. The pressure at which activation occurs is adjusted by simply changing out the Nozzle orifice dia.

