

# IFR PULLING TOOL

## APPLICATIONS

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

## FEATURES

- Flow activated
- Enclosed spring design
- Multi-function operation
- Fully adjustable activation pressure
- Easily redressed
- Compact and rugged design
- Ported Grapple housing to prevent hydraulic lock up

## 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.
- Tools are manufactured from mild steel as standard. Other materials are available on request.
- Bespoke designs available to suit no standard profiles and job specific applications.

The WellEnTech Internal Flow-Release (IFR) Pulling tool is a device for locating, engaging and pulling internal fishing neck profiles (Commonly referred to as GS profiles) or can be used to deploy tools and equipment down hole. The Grapple can be functioned either mechanically or hydraulically in order to engage the fishing neck and a strong spring ensures the grapple is fully supported when located within the fishing neck. Flow through the tool and a pull load disengages the tool from the profile.

## TECHNICAL SPECIFICATION

F/N Size	OD (Inches)	Length (Inches)	Connection	Activation Pressure (psi)	Max Pull Load (lbs)	Tensile Strength (lbs)	Service	Assembly No.	Redress kit No.
1-1/2"	1.563	12.65	1"AMMT Box	310	20,400	23,900	H2S	170-1563-A001	170-1563-R001
					28,800	32,800	Std.	170-1563-A002	170-1563-R002
	1.688	12.65	1"AMMT Box	310	20,400	23,900	H2S	170-1688-A001	170-1688-R001
					28,800	32,800	Std.	170-1688-A002	170-1688-R002
2"	1.750	14.41	1-1/4"AMMT Box	220	40,000	40,300	H2S	170-1750-A001	170-1750-R001
					55,000	55,400	Std.	170-1750-A002	170-1750-R002
2-1/2"	2.250	14.28	1-1/2"AMMT Box	180	43,000	73,200	H2S	170-2250-A001	170-2250-R001
					59,100	100,600	Std.	170-2250-A002	170-2250-R002
3"	2.875	16.84	2-3/8" PAC Box	160	52,300	113,600	H2S	170-2875-A001	170-2875-R001
					71,900	156,200	Std.	170-2875-A002	170-2875-R002
3-1/2"	3.000	17.18	2-3/8" PAC Box	150	74,500	113,600	H2S	170-3000-A001	170-3000-R001
					102,400	156,200	Std.	170-3000-A002	170-3000-R002
4"	3.625	19.56	2-3/8" PAC Box	100	84,300	159,800	H2S	170-3625-A001	170-3625-R001
					115,900	219,700	Std.	170-3625-A002	170-3625-R002
5"	4.500	20.08	2-3/8" PAC Box	100	91,500	226,700	H2S	170-4500-A001	170-4500-R001
					125,800	311,700	Std.	170-4500-A002	170-4500-R002

## OPERATION

To mechanically function the tool, axial load (in excess of the spring force) enables the Grapple to automatically engage the fishing neck profile. Once inside the fishing neck the Spring pushes the Grapple back to the supported position on the Core and an over pull will verify engagement within the profile.

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 profile. The pressure at which activation occurs is adjusted by simply changing out the nozzle orifice dia.

