



Welltonic Hydraulic Anchor *

The Welltonic Hydraulic Anchor * is primarily a device for anchoring BHA's within tubulars. However, with alternative blades fitted, it can be used as a high expansion stabiliser. The Anchor incorporates a variety of unique features which include; High expansion/body OD ratio, to facilitate gripping inside large ID's below small restrictions. The Anchor also features an un-interrupted through bore, to allow drop balls to pass through the tool with the added benefit of reducing flow turbulence. The blades are fully retained prior to flowing through the tool and are pulled back into the body when flow stops. Four blades guarantee centrality within the tubular and maximum stability.

The Anchor is flow operated. Hydraulic pressure moves pistons within the tool body forcing the blades out until they grip the tubular. When flow stops, a compression spring returns the pistons to their start position pulling the blades back in and holding them closed. The Anchor is run as part of any BHA which needs to be positively located within a section of tubing a typical example of which would be a pipe cutting operation.

One size of anchor blade suits a range of ID's. Stabiliser blades are size specific.

Features and benefits

- Fully retained and automatically retractable blades
- High expansion/body OD ratio
- Unrestricted thru' bore
- Four blades per tool as standard
- Field redressable

Technical Information

Tool Size	2-1/8"	2-7/8"
End connections	1-1/2" AMMT	2-3/8" PAC
Material	AISI 4140 (30-36 Rc)	AISI 4140 (30-36 Rc)
Tensile Yield	74,000 lbs	146,500 lbs
Torsional Yield	1,300 ft.lbs	3,600 ft.lbs
OD	2.125"	2.875"
ID	0.55"	0.75"
Length	34.5"	47.4"
To grip tubing	2-7/8" up to 4-1/2"	3-1/2" up to 7"
Pressure rating	5,000 psi	5,000 psi

Other sizes and materials available on request

* Patent applied for