

HYDRAULIC INDEXING TOOL

The Hydraulic Indexing Tool is used when controlling rotation of a lower string is desired. It has particular application when used in conjunction with fishing or wash tools. The tool is designed to function using a rotating cam system. All rotation is achieved hydraulically, versus up and down movement of mechanical tools, maximizing its use in fishing applications. A 360° rotation can be achieved using the 12 stage predetermined increments.

SPECIFICATIONS

TOOL IN (MM)	TORQUE @1,500 PSI	TOOL LENGTH (IN)	MAX. TENSILE (KIPS)	MIN. ACT PRESSURE (PSI)
1.688 (42.9)	100	45 (1.1)	65	200
2.125 (54.0)	125	45 (1.2)	70	200
3.00 (76.2)	510	56 (1.4)	135	200



HYDRAULIC BOW SPRING CENTRALIZER

The Hydraulic Bow Spring Centralizer (Figure 2) is designed to pass through restrictions in a retracted position, when pressure is applied across the tool, the bow springs are expanded to centralize the tool string. Once pressure is bled off, the bow spring returns to the retracted position. An adjustable sleeve allows the expansion of the bow spring to be adjusted for different casing sizes.

SPECIFICATIONS

OD IN (MM)	ID IN (MM)	TOOL LENGTH IN (MM)	MAX. EXPANSION DIA.IN (MM)
1.688 (42.9)	0.563 (14.3)	59 (1.5)	9.0 (228.9)
2.125 (54.0)	0.563 (14.3)	61.5 (1.6)	9.5 (241.3)
2.875 (73.0)	1.00 (25.4)	63.5 (1.61)	10.0 (254.0)
3.500 (88.9)	1.00 (25.4)	64.5 (1.63)	11.0 (279.4)



Figure 2