



## Hydraulic Bow Spring Centralizer - TT0912



### Description

The Hydraulic Bow Spring Centralizer is designed to pass through the production tubing, packers, and nipples, and then centralize inside of the casing below, to assist in fishing, cutting, milling, under-reaming, or washing over.

### Operation

When the circulation is initiated and the required psi for the tool is achieved, the centralizer will expand, centralizing the tool string. As long as there is the recommended flow rate through the tool, the springs will stay expanded, but once the flow rate is dropped, the springs will collapse and the BHA can be retrieved from the hole. Care should be taken when running in and out through the restricted diameters to prevent any damage to the springs.

Part Number	OD		ID		Length		Maximum Tensile Load		Maximum Torsional Yield	
	in.	mm	in.	mm	in.	cm	lbf	daN	ft-lbf	N-m
TT0912-168D	1.688	42.9	0.560	14.2	59.000	149.9	56,600	25,176	507	687
TT0912-181D	1.813	46.1	0.560	14.2	59.000	149.9	56,600	25,176	507	687
TT0912-213D	2.125	54.0	0.560	14.2	61.500	156.2	99,680	44,338	1,043	1,414
TT0912-225D	2.250	57.2	0.560	14.2	61.500	156.2	99,680	44,338	1,043	1,414
TT0912-288D	2.875	73.0	1.000	25.4	63.000	160.0	200,800	89,316	3,370	4,570
TT0912-300D	3.000	76.2	1.000	25.4	62.500	158.8	200,800	89,316	3,370	4,570
TT0912-313D	3.125	79.4	1.000	25.4	63.000	160.0	200,800	89,316	3,370	4,570