



## 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 |