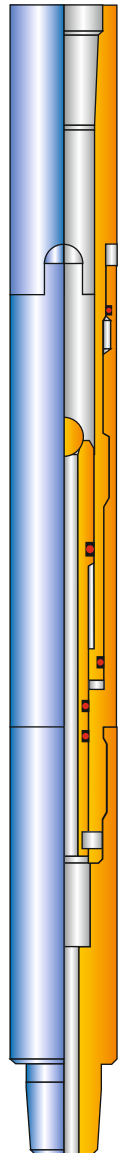


HYDRAULIC DISCONNECT

The Hydraulic Disconnect allows the toolstring to detach at a predetermined point via the deployment of a suitable drop/trip ball through the coiled tubing. The drop ball locates on a piston sleeve creating sufficient back pressure to shear the pins and disconnect the tool. All piston sleeves and drop balls are returned to surface leaving a standard 'GS' internal fish neck for retrieval purposes.

| HYDRAULIC DISCONNECT | | | | | | |
|-----------------------------|-----------------------|--|-----------------------------|----------------------------|-------------------------------|-------------------------------------|
| Max. O.D. (in) | Min. I.D. (in) | Tensile Strength (Standard Service) | Fish Neck (internal) | Make-up Length (in) | Drop Ball Release (in) | Internal Ball Clearance (in) |
| 1.687 | 0.438 | 40,000 LBS | 2" 'GS' | 18 | 5/8 | 7/16 |
| 1.750 | 0.438 | 45,000 LBS | 2" 'GS' | 18 | 5/8 | 7/16 |
| 2.125 | 0.438 | 55,000 LBS | 2" 'GS' | 18 | 5/8 | 7/16 |
| 2.250 | 0.750 | 65,000 LBS | 2" 'GS' | 18 | 13/16 | 3/4 |
| 2.375 | 0.750 | 70,000 LBS | 2-1/2" 'GS' | 19 | 13/16 | 3/4 |
| 2.875 | 0.750 | 120,000 LBS | 3" 'GS' | 21 | 13/16 | 3/4 |
| 3.125 | 1.062 | 150,000 LBS | 3" 'GS' | 21 | 1.1/8 | 1 |

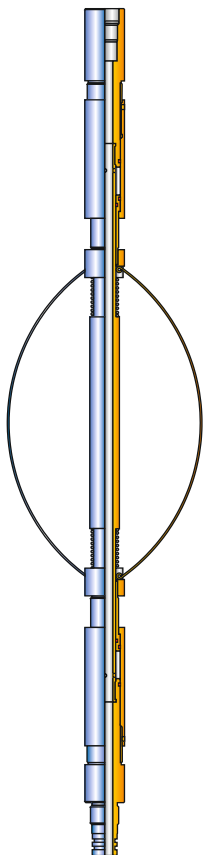


HYDRAULIC DISCONNECT

FLOW ACTIVATED BOW SPRING CENTRALIZER

The Flow Activated Bow Spring Centralizer is designed to allow the toolstring or parts of the toolstring to be centralized in the tubing/casing for various operations.

The Flow Activated Bow Spring Centralizer is designed so that its bow springs are normally retracted. The bow springs only expand when a pressure differential is achieved across the tool.



FLOW ACTIVATED BOW SPRING CENTRALIZER

| FLOW ACTIVATED BOW SPRING CENTRALIZER | | | |
|--|-----------------------|-----------------------|-------------------------|
| Tubing/ Casing Size (in) | O.D. Size (in) | I.D. Size (in) | Length Size (in) |
| 3-5/8, 8 | 1.688 | 0.563 | 36.000 |
| 3-1/4, 8-1/2 | 2.125 | 1.000 | 36.000 |
| 5, 11 | 2.563 | 1.375 | 42.625 |
| 5-5/8, 11-1/2 | 3.125 | 1.375 | 44.500 |