

PBL UltiCirc[®]



DSI FZE is pleased to introduce PBL UltiCirc[®]

PBL UltiCirc[®] is the latest product to be added to the high-performance stable of innovative products DSI offers to the upstream energy sector. **PBL UltiCirc[®]** has all the advantages, features and benefits of the world renowned **DSI PBL Multiple Activation Bypass Systems** plus the new features, including off-set catcher technology to ensure unobstructed tool Thru Bore at all times.

Applications:

- Pumping all types of LCM pills, including aggressive pills and cement squeezes
- Increasing circulation rates for improved hole cleaning resulting in reduced torque and drag, thereby increasing ROP
- Increasing annular velocity in highly deviated and horizontal wellbores where removal of cutting beds and hole cleaning are problematic
- Fluid displacements
- Sub-sea riser/BOP jetting
- Acidizing and stimulation treatments
- Coring applications

Features and Benefits:

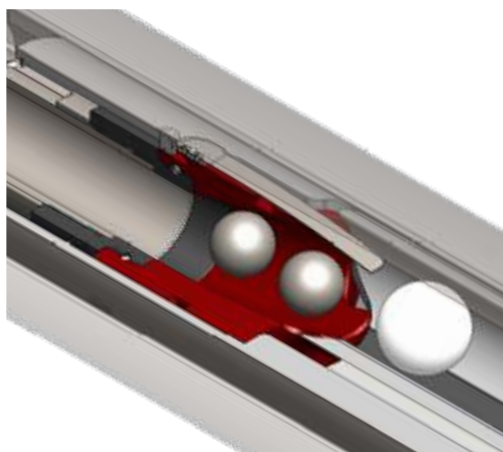
- Unique catcher configuration allows dispensed balls to be captured in an off-set pocket hence allowing a clear and unobstructed Thru-Bore even after multiple activation. Hence rendering the tool ideal for retrieval or allowing balls for other ball activated devices to pass through.
- Will close when the pumps are shut down minimizing a U tubing effect or possible well control issues that can occur in other tools
- Can be cycled numerous times in a single trip (standard 5 cycles but can be extended up to 10 cycles)
- The ball shearing pressure in **PBL UltiCirc[®]** can be set to the operator's preference



Technical Specifications

| Tool Size (") | 6 ¾" | 8 ¼" HF* | 9 ½" HF* |
|--|-----------|-----------|-----------|
| Maximum O.D. (") | 6.75 | 8.25 | 9.50 |
| Minimum I.D. (") | 1.895 | 2.660 | 2.660 |
| Max OD for third party Ball to pass through (") | 1.875 | 2.625 | 2.625 |
| Standard rig ends | NC 50 | 6 ⅝ REG | 7 ⅝ REG |
| Fishing neck I.D. (") | 6.750 | 8.250 | 9.500 |
| Number of ports | 2 | 2 | 2 |
| Activation ball size (") | 2 | 2 ¾ | 2 ¾ |
| De-Activation ball size (") | 1 ¾ | 1 ¾ | 1 ¾ |
| Number of Balls Needed to Activate Tool | 1 | 1 | 1 |
| Number of Balls Needed to De-Activate Tool | 2 | 2 | 2 |
| Number of cycles (std. / ext.) | 5 / 10 | 5 / 10 | 5 / 10 |
| Flow area through tool (in ²) | 2.92 | 5.80 | 5.80 |
| Port Diameter (") | 1.10 | 1.35 | 1.35 |
| TFA through ports when tool is open (in ²) | 1.901 | 2.863 | 2.863 |
| Weight (lbs) | 1,198 | 1,525 | 1,800 |
| Shoulder to shoulder length (") | 150 | 150 | 150 |
| Tensile Strength Main Body (lbs) | 3,100,100 | 3,700,000 | 6,000,000 |
| Torsional Strength Main Body (ft-lbs) | 190,000 | 335,000 | 565,000 |
| Make-Up Torque (ft-lbs) | 34,840 | 46,450 | 81,290 |

* 8 ¼" and 9 ½" tools can be made available upon especial request. HF denotes High Flow



- **Unique Catcher Design with off-set ball catcher pocket**
- **Unobstructed Thru Bore at all times**



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