



PBL® Thru-Tubing Line

The Thru-Tubing line of DSI PBL® Multiple Activation Bypass Tool was designed for work on coil tubing and stick pipe in completion, workover, and production operations.

Unlike the single-activated circulating tools commonly used today, the Thru-Tubing PBL® tools can be activated/deactivated up to 10 times in a single run. Thru-Tubing PBL® tools allow the operators to increase their annular velocity (AV) by up to 300% above the motor limits being run in the string. Time and again, these higher AVs have proven to greatly reduce the operator's completion costs.

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BENEFITS

INCREASED ANNULAR VELOCITY

- Increasing hole cleaning capabilities
- Removing debris previously left in the well
- Reducing circulating times by up to 300%
- Reducing coil tubing running costs
- Reducing short trips
- Reducing chemical costs
- Reducing days

COMPLETE ISOLATION OF THE BHA

- Eliminating costs associated with potential damage to the BHA while displacing:
 - Acid
 - Foam
 - Nitrogen
 - Fluid
- Facilitating acidizing and stimulation treatments

SPECIFICATIONS

| | | | | | |
|---|---------|------------|-----------|--------------|-----------|
| Tool Size (in.) | 2 11/16 | 2 1/8 | 2 7/8 | 3 1/8 | 3 1/8 HF |
| Number of Ports | 3 | 3 | 3 | 3 | 3 |
| Standard Rig Ends (Box x Pin)¹ | 1 AMMT | 1 1/2 AMMT | 2 3/8 PAC | 2 7/8 HT PAC | 2 3/8 REG |
| Activation Ball Size (in.) | 13/32 | 5/8 | 7/8 or 1 | 7/8 or 1 | 1 |
| Steel Deactivation Ball Size (in.) | 3/8 | 7/16 | 13/16 | 13/16 | 29/32 |
| Number of Cycles (Std / Max) | 6/10 | 7/10 | 7/10 | 7/10 | 7/10 |
| EHD (in.) | 0.40 | 0.58 | 0.87 | 0.97 | 1.0 |
| Port Diameter (in.) | 0.34 | 0.42 | 0.75 | 0.75 | 0.875 |
| TFA When Tool is Open (in.²) | 0.28 | 0.42 | 1.32 | 1.32 | 1.8 |
| Length (in.) | 36.5 | 38 | 77 | 74 | 78 |
| Max Flow When Tool is Closed (non-autolock, BPM) | 1 | 1.2 | 3 or 5 | 3 or 5 | 5 |
| Max Flow When Tool is Open (non-autolock, BPM) | 1.75 | 2.25 | 6 | 6 | 8 |
| Increase in Flow Closed vs. Open (%) | 75 | 87 | 100 | 100 | 60 |

¹ Alternative Rig End Connections may be available



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