

# PBL<sup>®</sup> THRU TUBING LINE



DSI FZE, introduced the Thru Tubing Line of PBL Multiple Activation Circulating Tools in January 2013. The tool is designed to work on coiled tubing and stick pipe for completion, workover, and production operations.

Unlike the single activated circulating tools commonly being used today, the Thru Tubing PBL tools can be activated / deactivated up to 10 times in a single run. These tools will allow the operator the ability to increase their annular velocity by up to 300% above the motor limits being run in the tool string. These higher A.V.'s have proven in over hundreds of wells to greatly reduce the operator's completion cost. The two primary applications are as follows:

## Applications / Benefits

### 1. INCREASED ANNULAR VELOCITY

Plug drilling operations (# 1 use) Benefits

- Hole Cleaning
- Elimination of debris previously left in the well
- Reducing circulating times up to 300 %
- Reducing coil tubing running charges
- Reducing short trips
- Reducing chemical cost
- Reducing Days

### 2. COMPLETE ISOLATION OF THE BHA

Eliminating cost associated with damages to the BHA while displacing

- Acid
- Foam
- Nitrogen
- Fluid displacements
- Performing Acidizing and stimulation treatments

## Technical Specifications

Tool Size (")	1 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) <sup>1</sup>	1 AMMT	1 1/2 AMMT	2 3/8 PAC	2 7/8 HT PAC	2 3/8 REG
Activation Ball Size (")	13/32	5/8	7/8 or 1	7/8 or 1	1
Steel De Activation Ball Size (")	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
Port Diameter (")	0.34	0.42	0.75	0.75	0.875
TFA when Tool is Open (n <sup>2</sup> )	0.28	0.42	1.32	1.32	1.8
Length (")	36.5	38	77	74	78
Max. Flow when Tool is Closed (non-Auto-lock, BPM)	1	1.2	3 or 5	3	5
Max. Flow when Tool is Open (non-Auto-lock, BPM)	1.75	2.25	6	6	8
Increase of Flow – Closed vs. Open (%)	75	87	100	100	60

<sup>1</sup> Alternative Rig End Connections may be available



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10 ROUND ABOUT ROAD 911 | JEBEL ALI FREE ZONE | P.O. BOX 30576 DUBAI  
UNITED ARAB EMIRATES | T: +9714 880 82 28 | ENQUIRIES@DSI-PBL.COM | DSI-PBL.COM  
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