

# THE PBL<sup>®</sup> MULTIPLE ACTIVATION JETTING TOOL



The PBL<sup>®</sup> Multiple Activation Jetting Tools utilize the same industry proven components used in the PBL Multiple Activation Bypass System. Enhanced cleanout operations are conducted through an array of jet nozzles positioned throughout the sleeve:

## PBL<sup>®</sup> Multiple Activation Jetting Tool

- Multiple Activation Cycles
- Multiple Jet Nozzle Options
- Multiple Sleeve Diameters
- Multiple Sleeve Blades
- Multiple Connection Options

There are several unique features to this jetting tool that stand out from others on the market:

- It is a totally balanced system that is unaffected by hydrostatic pressure
- The ball shearing pressure can be set to the operator’s preference
- The shear pressure can be set high to “shock” the drill pipe to aid in scale and cement removal
- The tool can be cycled multiple times in a single trip

The PBL<sup>®</sup> Multiple Activation Jetting Tool has many applications in the drilling and completion environment:

- Cleanout of BOP, risers, liners hangers and liner tops without additional pipe trips
- Increased flow rates to aid in hole cleaning during displacements
- Can be utilized in conjunction with various brush and cleanout tools for maximum riser clean-up
- When included as part of the drilling BHA, cleanouts can be conducted while tripping out of hole without rotation of drill-pipe



## Technical Specifications

Tool O.D. (")	Connection	Sleeve O.D. (")	Number of Ports <sup>3</sup>	PBL Cycles	Drift I.D. (") <sup>4</sup>
6 ¾	4 ½ IF	11	12	5	1.27 (1.80)
		16	18		
8 ¼	6 ⅝ REG	16.25 <sup>1,2</sup>	30	5	1.50 (2.27)
9 ½	7 ⅝ REG	16.25 <sup>1,2</sup>	30	5	1.50 (2.27)

<sup>1</sup> Sleeve blades coated with "casing friendly" material

<sup>2</sup> Alternate diameters may be available

<sup>3</sup> All port nozzles are field changeable

<sup>4</sup> Minimum tool ID could vary if Activation Ball or Dart is used

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