



# PBL<sup>®</sup> Retrievable Dart Activated Bypass System

To answer the drilling industry's need for an efficient circulating sub that can be used in conjunction with retrievable MWD probes, DSI introduced the Retrievable Dart Activated Bypass (RDAB) System. This system provides the same reliability and proven functionality as DSI's PBL<sup>®</sup> Multiple Activation Bypass System. The PBL<sup>®</sup> RDAB system can be run in tandem with the PBL<sup>®</sup> Bypass System of the same OD or smaller, hence providing multiple zone cleanout capabilities. The PBL<sup>®</sup> RDAB system can also be run in tandem with the DSI Booster Bypass System of the same OD or smaller. This allows the operator to perform split flow operations with the Booster Bypass system, or switch to 100% bypass operation by activating the PBL<sup>®</sup> RDAB system, should unexpected losses be encountered.

## BENEFITS

### UNIQUE FEATURES

- Unlimited number of cycles
- Large ID provides the operator with the ability to deploy or retrieve probe-style MWD sensors, drilling tools, or core barrels while still maintaining the ability to activate the RDAB system
- Retrievable dart system

### APPLICATIONS

- Increasing circulation rates for improved hole cleaning results in reduced torque and drag, thereby increasing ROP
- Increasing annular velocity in highly deviated wellbores where removal of cutting beds and hole cleaning are problematic
- Pumping all types of lost circulation materials, including aggressive materials and cement squeezes
- Fluid displacements
- Acidizing and stimulation treatments
- Coring applications

## SPECIFICATIONS

<b>Tool OD (in.)</b>	6 1/2	6 3/4	8	8 1/4	9 1/2
<b>Drift ID (in.)<sup>1</sup></b>	2.24	2.24	2.63	2.63	2.63
<b>EHD (in.)</b>	1.93	1.93	2.42	2.42	2.42
<b>Port TFA (in<sup>2</sup>)<sup>2</sup></b>	2.45	2.45	3.53	3.53	3.53
<b>Connections<sup>3</sup></b>	NC 50 (4 1/2 IF)	NC 50 (4 1/2 IF)	6 5/8 REG	6 5/8 REG	7 5/8 REG

<sup>1</sup> Alternative Drift ID's available to accommodate drill pipe restrictions

<sup>2</sup> Full-bore Port TFA listed

<sup>3</sup> Alternative connection may be available



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