

DSI HydraFlow[®] System

The DSI HydraFlow[®] Hydraulically Activated, Unlimited Cycle, Full Bore, Slim System was developed on the back of PBL's world-renowned Thru-Tubing Multiple Activation Bypass Tool. Differential activation/deactivation cycling means the tool does not require balls, darts, RFID chips, or electronic pulses to cycle. The DSI HydraFlow[®] can be cycled indefinitely, and a clear Thru Bore is maintained throughout the operation. By splitting the flow, the operator can achieve effective hole cleaning and efficient wellbore management while maintaining allowable flow rates through today's sophisticated downhole tools. These unique features make the DSI HydraFlow[®] the ideal system for coiled tubing, drilling, and completion operations.

The DSI HydraFlow[®] system is most commonly used to increase annular velocity or for hole cleaning purposes, such as removing sand debris after hydraulic fracturing or perforation gun metal shavings, drilling out plugs, or running scrapers and brushes. The system is also utilized in milling and fishing operations.

FEATURES AND BENEFITS

- Unlimited activation / deactivation cycles
- Superior TFA (larger TFA (3-ports), when compared to competition)
- Time saving: higher flow rates optimize cuttings cleanout without tripping, higher number of milled plugs per run
- Short tool length
 - No catcher sub required
 - Tool can be placed closer to critical BHA components
- Safe operations: no ball launching procedure while on pressurized system
- Provides full drift
- Allows high flow rates at low system pressure
- Field-proven indexing activation / deactivation technology

Tool size (in.)	2 7/8	3 1/8
Number of Ports	3	3
Standard Rig Ends (Box x Pin) ¹	2 3/8 PAC	2 3/8 REG
Number of Cycles	Unlimited	Unlimited
Tool ID (in. / mm)	1.015 / 25.8	1.015 / 25.8
Max Port Diameter (in. / mm)	0.781 / 19.8	0.781 / 19.8
Max OD Third-Party Ball to Pass Through (in. / mm)	1.000 / 25.4	1.000 / 25.4
TFA When Tool is Open (in.²)	1.438 (THRU PORTS) 0.809 (THRU BORE)	1.438 (THRU PORTS) 0.809 (THRU BORE)
Length (in. / mm)	51.56 / 1,310	51.56 / 1,310
Max Flow When Tool is Closed (BPM)	4	4
Max Flow When Tool is Opened (BPM)	7	7

¹ Alternate Rig End Connections may be available



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