



Self-Filling Float Trigger™



The Self-Filling Float (SFF) Trigger™ is the simplest and fastest float system available for tripping into hole. It provides operators with accelerated trip times, up to 18 minutes per 1,000 ft run in hole, by allowing self-filling and eliminating time-consuming top filling.

The SFF Trigger's robust hold open mechanism allows for MWD and other shallow hole testing without premature float activation issues. As the tool reaches the pre-determined arming pressure and depth, the unique Baromatic™ technology arms automatically allowing activation of the floats at any point past this depth. The deeper the well, the greater the savings.

As a fully automated system, the tool can be placed almost anywhere in the string. Operators also benefit from permanent access to the BHA, allowing pumped activators to reach lower placed tools, a feature unique to the SFF Trigger.

BENEFITS

- Self-filling delivers time savings of up to 18 minutes per 1,000 ft run in-hole
- MWD and other shallow hole testing can be performed without activating the floats, allowing self-filling savings to continue
- Pre-determined arming pressure and depth – simple, automatic and fast
- The tool continues to self-fill even when the tool is armed
- Permanent access to the BHA allowing pumped activators to reach lower placed tools (under reamer balls)
- Premium double floats offer enhanced protection once activated
- Rig safety is sustained by eliminating top filling and rig floor spillages



SPECIFICATIONS

Material	AISI 4145-H Modified – 120 min ksi				
Connection		7 5/8" Reg	6 5/8" Reg	NC50	NC38
Make-up Torque	(kft-lbs)	85	51	31	13
Temp Rating – Standard	(C/F)	200/392			
Overall Length	(ft)	10.6	10.6	9.6	7.1
Maximum OD	(in)	9.38	8.25	7.00	5.00
Pin ID	(in)	3.00	2.81	2.81	2.13
Weight	(lbs)	2,052	1,555	1,012	380
Drift Diameter (Pre & Post Activation)	(in)	2.27	2.27	1.88	1.75
Float Activation Dart OD	(in)	2.32	2.32	1.94	1.80
Minimum Activation Pressure	(psi)	1,540			2,700
Maximum Activation Pressure	(psi)	12,600			10,400
Float Hold-Open Pipe Shearout Pressure	(psi)	1,000			900
Float Working Pressure	(psi)	7,500			10,000
Tensile Capacity	(klbs)	2,900	1,850	1,300	700
Torsional Yield	(kft-lbs)	157	88	55	22
Burst Pressure	(psi)	35,500	34,000	32,500	29,500
Collapse Pressure	(psi)	35,500	34,000	32,500	29,500