



Self-Filling Float

The Self-Filling poppet or Rapper style-floats enable operators to accelerate trip times, saving up to 18 minutes per 1,000 ft run in hole by allowing self-Filling and eliminating time-consuming top Filling.

The robust hold open mechanism allows for MWD and other shallow hole testing without premature float activation issues. Replacing the need for traditional floats, the Self-Filling Float, offers dual protection and through bore access prior to activation.

The tool is activated by a unique smart dart and requires no additional equipment or personnel. Simply drop the dart from surface on approach to the shoe to provide protection while drilling the section.

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
- Through bore access prior to activation when using flapper type
- Simple and fast activation at the shoe - no additional equipment or personnel required
- Double floats offer enhanced protection once activated
- Surge-relief - formation damage induced by surge pressures can be avoided
- 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 |
| Make-up Torque | (kft-lbs) | 85 | 51 | 31 |
| Temp Rating - Standard | (C/F) | 200/392 | | |
| Overall Length | (ft) | 9.33 | 9.24 | 8.41 |
| Maximum OD | (in) | 9.37 | 8.25 | 7.00 |
| Pin ID | (in) | 3.00 | 2.81 | 2.81 |
| Weight | (lbs) | 1,565 | 1,200 | 860 |
| Drift Diameter (Pre Activation) | (in) | 2.30 | 2.30 | 1.92 |
| Float Activation Dart OD | (in) | 2.44 | 2.44 | 2.13 |
| Float Activation Pressure | (psi) | 700 | 700 | 800 |
| Float Working Pressure | (psi) | 7,500 | | |
| Tested Pressure | (psi) | 11,500 | | |
| Tensile Capacity | (klbs) | 2,300 | 1,650 | 1,250 |
| Torsional Yield | (kft-lbs) | 150 | 90 | 55 |
| Burst Pressure | (psi) | 33,000 | 30,750 | 30,200 |
| Collapse Pressure | (psi) | 27,500 | 26,000 | 25,600 |