

# Ultra Reach Flotation Collar II – Drill Pipe

Running completions in extended reach wellbores becomes problematic due to high frictional forces created while running casing in the horizontal section. These forces make running casing inefficient and can prevent the ability to run casing to the target depth.

The Ultra Reach Flotation Collar II Drill Pipe (URFC-II DP) is a Drill Pipe deployed flotation tool that allows air to be trapped inside the liner, and is installed above the Liner Hanger during deployment. The trapped air increases the buoyancy of the casing below the URFC-II DP, reducing the frictional forces along the horizontal section of the wellbore.

The URFC-II DP contains a glass barrier that allows fluid to be placed above the tool from surface while running in the wellbore. Once the completion reaches the target depth, pressure is applied from surface, shattering the glass and establishing circulation for conditioning, cementing operations and setting equipment such as Liner Hangers.

We determine the optimal location of the flotation collar based on the well trajectory, casing design and fluid types. This allows us to select the amount of applied pressure required to activate the tool prior to installation.



## Features

- Full Drill pipe ID after opening
- No intervention requirement compared to deep-set/horizontal wireline plugs
- Circulation established hydraulically through differential pressure with predetermined burst pressure
- Installed as integral part of the drill pipe

## Benefits

- No debris sub required due to small debris size
- Debris will not interfere with setting balls for Liner Hanger applications
- Different settings are available to accommodate a large range of depths and mud weights
- Glass barrier shatters into fine particles, 5 - 10 mm in diameter

## Applications

- Long laterals, also known as extended-reach laterals
- Can be run above Liner Hangers
- Laterals where casing is difficult to achieve target depth to ensure the wellbore integrity remains intact

Drill Pipe Size in. (mm)	Drill Pipe Weight lb/ft (kg/m)	Max. OD in. (mm)	Min. ID in. (mm)	Overall Length in. (mm)	Rupture Glass Differential Pressure psi (kPa)	Temp. Rating °F (°C)
4.00 (101.6)	14.0 (20.8)	5.250 (133.4)	2.688 (68.3)	40.50 (1,028.7)	3,500 (24,132) 5,000 (34,474) 6,500 (44,816) 8,000 (55,158)	300 (150)
4.50 (114.3)	16.6 (24.7)	5.770 (146.6)	2.688 (68.3)	41.40 (1,052.5)		