

SSR dual dart cementing plug system

Pressure Pumping cementing

Applications

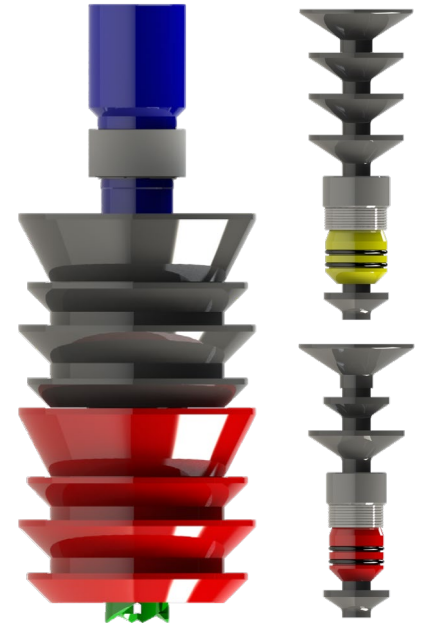
- Cementing operations
- Subsea environments
- Casing and liner hanger systems
- Single-size and tapered dual-size casing configurations

Features and Benefits

- For casing sizes of 13 5/8-in. and larger*
 - Currently available in 18 5/8-in., 18 5/8 x 20-in., and 20-in.
- Dart activated two-plug system
- Incorporates a reliable collet releasing mechanism for accurate pressure release rating
- Running mandrel featuring integrated pressure equalizer ports to prevent premature plug launch
- Reuseable running tool (mandrel) NC-50 standard
- Field proven LAPN plug anti-rotation system as standard allows plugs to be locked to collar
- PDC drillable
- Oil resistant
- High strength inserts
 - Enables pressure test of casing after displacement
- The bottom plug cleans the interior of casing effectively reducing risk of mud-cement contamination
- The top plug separates the cement and the displacement fluid and acts as an indicator at the end of displacement

The Baker Hughes SSR dual dart cementing plug system is designed to enhance zonal isolation and well-integrity in subsea environments. This plug system acts as a formidable mechanical barrier and integrates seamlessly with subsea casing or liner hanger systems, effectively preventing fluid contamination during the critical cementation process.

Featuring a dart-activated 2-plug system and a collet releasing mechanism, it ensures swift and precise deployment while providing accurate pressure release for optimal performance. The running mandrel forms a part of the wiper plug system used for subsea operations. It is equipped with integrated pressure equalizer ports, effectively relieving pressure behind plug fins to prevent premature plug launch.



Specifications

Plug sizes	20 in (508 mm)	20 x 18 5/8-in. (508 x 473 mm)	18 5/8-in. (473 mm)
Casing ID wiping range	18.05 to 19.193-in. (458 to 488 mm)	16.634 to 19.193-in. (423 to 488 mm)	16.634 to 17.870-in. (458 to 488 mm)
Max plug bump pressure	3,000 psi (20.7 MPa)		
Bottom plug launch pressure	1900 to 2150 psi (13.1 to 14.8 MPa)		
Top plug launch pressure	2150 to 2400 psi (14.8 to 16.5 MPa)		
SSR plug fin OD	19.6-in. (498 mm)	18.18 to 19.6-in. (462 to 498 mm)	18.19-in. (462 mm)
Min plug ID	2.5-in (63.5 mm)		
Min flow area	3.64-in ² (2348 mm ²)		
Top dart rigid OD*	3.125-in. (79.4 mm)		
Bottom dart rigid OD*	2.75-in. (69.9 mm)		
Flow endurance	24 hrs at 10 bpm		
Temperature rating	Up to 250°F (121°C)		

*Darts able to wipe 3.5 to 4.5-in. ID. Darts shown can be configured for different applications (i.e., 6 5/8-in. DP)