

SSR dual dart cementing plug system

Pressure pumping cementing

Applications

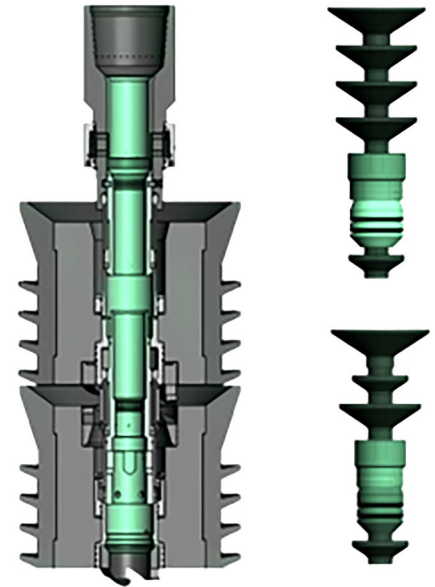
- Cementing operations
- Subsea environments
- Casing and liner hanger systems
- Single-size and tapered dual-size casing configurations

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
- Compatible with most Baker Hughes Subsea Cement Heads

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) |
|------------------------------|---|---|
| Casing ID wiping range | 18.376 to 19.193-in. (5601 to 5850 mm) | 16.634 to 19.193-in. (5070 to 5850 mm) |
| Max. plug bump pressure | 3,000 psi (20.68 MPa) | 3,000 psi (20.68 MPa) |
| Bottom plug launch pressure | 1,900 to 2,150 psi (13.1 to 14.8 MPa) | 1,900 to 2,150 psi (13.1 to 14.8 MPa) |
| Top plug launch pressure | 2,150 to 2,400 psi (14.8 to 16.5 MPa) | 2,150 to 2,400 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) |
| Min. plug ID | 2.5-in. (63.5 mm) | 2.5-in. (63.5 mm) |
| Min. flow area | 3.64-in. ² (2348 mm ²) | 3.64-in. ² (2348 mm ²) |
| Top dart rigid OD/length* | 3.125-in. (79.4 mm)/14.385-in. (365 mm) | |
| Bottom dart rigid OD/length* | 2.75-in. (69.9 mm)/12.408 (315 mm) | |
| Flow endurance | 24 hrs at 10 bpm | 24 hrs at 10 bpm |
| Temperature rating | Up to 250°F (121°C) | 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).