

Retrievable bridge plug

Creates a reliable, high-performance-seal barrier in dynamic downhole pressure and temperature environments

Applications

- Certified well barrier for well suspension during completion, workover, and well maintenance
- Zonal isolation for leaks, water or gas shutoff, or stimulation
- Packer setting for deployment of flow control devices and straddles
- Deployment of shut-in tools and gauges for production testing

Features

- Nominal tubing size: 2 7/8 in to 9 5/8 in [73 to 244.475 mm]
- Temperature: up to 300 degF [149 degC]
- Differential pressure: up to 7,500 psi [51.7 MPa]

Other

Certification: ISO 14310:2008 and API Specification 11D1 validation grade V3



SIMplus retrievable bridge plug.

How it improves wells

The SIMplus™ retrievable bridge plug is an expandable elastomeric barrier that creates a reliable, high-performance downhole seal even in dynamic environments with cycling downhole pressure and temperature. It offers excellent operational flexibility, high assurance, and conformance to the most stringent well barrier criteria while its debris-tolerant design also limits solids ingress and assures recovery reliability. The bridge plug can function as a packer for deployment of a wide range of inflow control devices, including downhole chokes and check valves, and for the suspension of shut-in tools and downhole gauges.

The large inside diameter (ID) of the SIMplus bridge plug also makes this sealing system ideal for modular straddle applications, including slickline-conveyed gas lift and sandscreen deployments.

How it works

The SIMplus plug can be mechanically set at any chosen depth within the completion tubing or liner without the need for a nipple profile.

Available in all industry sizes from 2 7/8 in to 9 5/8 in, it can be deployed by all conventional conveyance methods including slickline, e-line, coiled tubing, drillpipe, and tractor. Additionally, it has multiple equalizing assembly options to suit well and operational conditions, including melon-, prong-, or pump open-type systems. The SIMplus plug can be recovered using a conventional GS-type pulling tool on any conveyance method.

Additional information

This ISO 14310:2008 V3 product is manufactured to level 3 quality grade for performance tracking and traceability (other grades available on request). Components are manufactured in 1.7-4 PH stainless steel and rated for limited sour service deployment. Tools meeting full NACE MR0175 specification are available on request. The SIMplus plug is simple to redress in the field minimizing asset requirements and NPT and providing greater operational flexibility.

The takeaways

The SIMplus retrievable bridge plug offers a reliable and retrievable well barrier or flow control deployment system for a variety of hole sizes, temperatures, and pressures. Deployment and retrieval are simple and can be done using conventional tools.

SIMplus Specifications

Specifications	2 7/8	3 1/2	4 1/2
Tubing size	2 7/8 in	3 1/2 in	4 1/2 in
Weight	6.4 lbm/ft [9.5 kg/m]	9.2–10.2 lbm/ft [13.7–15.2 kg/m]	11.6–15.1 lbm/ft [17.3–22.5 kg/m]
Plug OD	2.22 in [56.4 mm]	2.72 in [69.1 mm]	3.65 in [92.7 mm]
Plug ID	0.781 in [19.8 mm]	1.259 in [32 mm]	2 in [50.8 mm]
Length	54 in [1372 mm]	61 in [1549 mm]	59 in [1499 mm]
Differential pressure	7500 psi [51.7 MPa]	5000 psi [34.5 MPa]	5000 psi [34.5 MPa]
Temperature range *	104–300 degF [40–149 degC]	104–300 degF [40–149 degC]	104–300 degF [40–149 degC]
Max. Setting ID	2.493 in [63.3 mm]	3.046 in [77.4 mm]	4.03 in [102.4 mm]

* Contact a SLB representative for operations outside this temperature range.

** 3.15-in [80.01-mm] ID available on request.

† Rated to this pressure in cemented and fully supported casing only.

SIMplus Specifications

Specifications	5 1/2 a	5 1/2 b	5 1/2 c
Tubing size	5 1/2 in	5 1/2 in	5 1/2 in
Weight	15.5 lbm/ft [23 kg/m]	17–20 lbm/ft [25.3–29.8 kg/m]	23 lbm/ft [34.2 kg/m]
Plug OD	4.53 in [115.1 mm]	4.53 in [115.1 mm]	4.45 in [113 mm]
Plug ID	2.362 in [60 mm]	2.362 in [60 mm]	2.362 in [60 mm]
Length	61 in [1549 mm]	61 in [1549 mm]	61 in [1549 mm]
Differential pressure	5000 psi [34.5 MPa]	5000 psi [34.5 MPa]	5000 psi [34.5 MPa]
Temperature range *	104–300 degF [40–149 degC]	104–300 degF [40–149 degC]	104–300 degF [40–149 degC]
Max. Setting ID	5.03 in [127.8 mm]	4.975 in [126.4 mm]	4.765 in [121 mm]

* Contact a SLB representative for operations outside this temperature range.

** 3.15-in [80.01-mm] ID available on request.

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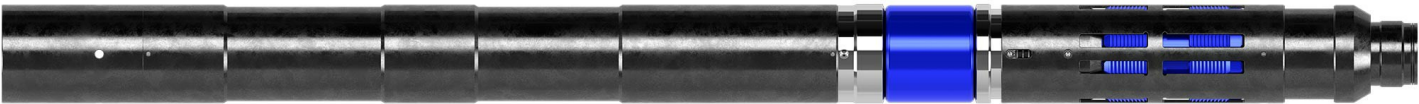
SIMplus Specifications

Specifications	7 a	7 b	9 5/8
Tubing size	7 in	7 in	9 5/8 in
Weight	29–32 lbm/ft [43.2–47.6 kg/m]	23–26 lbm/ft [34.2–38.7 kg/m]	36–43.5 lbm/ft [53.6–64.7 kg/m]
Plug OD	5.72 in [145.3 mm]	5.84 in [148.3 mm]	8.475 in [215.26 mm]
Plug ID	2.362 in [60 mm]	2.362 in [60 mm]	4.375 in [111.12 mm]
Length	63 in [1600 mm]	63 in [1600 mm]	90.5 in [2298.7 mm]
Differential pressure	5000 psi [34.5 MPa]	5000 psi [34.5 MPa]	5000 psi [34.5† MPa]
Temperature range *	104–300 degF [40–149 degC]	104–300 degF [40–149 degC]	68–257 degF [20–125 degC]
Max. Setting ID	6.293 in [159.8 mm]	6.465 in [164.2 mm]	9.05 in [229.87 mm]

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** 3.15-in [80.01-mm] ID available on request.

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