

SIMplus retrievable bridge plug

The SIMplus* retrievable bridge plug is an expandable barrier that creates a reliable and high performance downhole seal in fluid and temperature cycling environments. It forms part of Peak's SIMplus range of ISO 14310:2008 validation grade V3 products.

The SIMplus plug can be mechanically set at any chosen depth within the completion tubing or liner without the requirement for a nipple profile. Available in all industry sizes from 2½ in up to the largest 7-in size, it can be deployed by all conventional conveyancing methods and, with its advanced setting mechanism, is the only mechanically set V3 rated plug available, creating unrivalled operational flexibility and confidence.

The large internal diameter of the SIMplus plug makes this sealing system ideal for modular straddle applications, leak detection and where flow is restricted, offering excellent flexibility, high assurance and conformance to the most stringent of well barrier criteria. The SIMplus plug is recovered using a conventional GS pulling tool fitted with industry standard Peak Multi-Action Top Sub (MATS) and pulling prong.

Quality controls (level 3) for the storage, maintenance and documentation for performance tracking and traceability are incorporated into the development of all SIMplus products.

APPLICATIONS

- Well suspension during completion, workover and well maintenance
- Zonal isolation for leaks, water/gas shut-off or stimulation
- Straddle for gas-lift
- Downhole choke and inflow control
- Packer setting and completion pressure tests
- Suspension of downhole gauges

FEATURES AND BENEFITS

- ISO 14310:2008 V3 accreditation
- Simple to redress in the field minimizing NPT
- Multiple setting options: mechanically on slickline, e-line, coiled tubing, drillpipe or tractor
- Debris tolerant design to limit ingress
- Multiple equalizing assembly options (melon-, prong-, or pump open-type)
- Ultimate flexibility to plug and divert flow using uni- and bidirectional flow
- Operational assurance from high temperature/high pressure sealing element
- Sour service components to NACE MR0175 specifications

TECHNICAL INFORMATION

Nominal Tubing Size, in	Weight, lbm/ft	Plug OD, in	Plug ID, in	Length, in	ISO 14310:2008 V3 Qualification		Max. Setting ID, in
					Pressure Differential, psi	Temperature Range, † degF	
2½	6.4	2.22	0.781	54	7,500	104-300	2.493
3½	9.2 - 10.2	2.72	1.259	61	5,000	104-300	3.046
4½	11.6 - 15.1	3.65	2	59	5,000	104-300	4.03
5½	15.5	4.53	2.362	61	5,000	104-300	5.03
	17 - 20	4.53	2.362	61	5,000	104-300	4.975
	23	4.45	2.362	61	5,000	104-300	4.765
7	29 - 32	5.72	2.362 ^{††}	63	5,000	104-300	6.293
	23 - 26	5.84	2.362 ^{††}	63	5,000	104-300	6.465

† Contact a Peak Well Systems representative for operations outside this temperature range.

†† 3.15-in ID available on request.

*Mark of Schlumberger

Product Code: SIMplus / 351

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▲ SIMplus retrievable bridge plug
 UK Patent : GB2432607 & GB2424237
 US Patent : US7,654,334B2
 Australia Patent : 2004287895
 Patent Pending - Malaysia and Thailand

