

METROL

FLOW-SURE SS™

THE WIRELESS SINGLE SHOT SLEEVE FROM METROL

The FLOW-SURE SS "FS-SS" is a wireless controlled Single Shot Sleeve.

DESCRIPTION

FLOW-SURE denotes an intelligent, wireless basis from which Metrol's premium flow control products have been designed. All FLOW-SURE tools deliver advanced wireless diagnostics and feedback on valve position. Metrol's FLOW-SURE, downhole valves have reliably enabled multi-zone DST's since 2002, with over 500 wireless valve moves to date.

The FS-SS can be run as a single shot flow bypass control device positioned below the packer and configured as run-closed

or run open. Typically the valve is used as a contingency flow control sleeve positioned alongside screens or multi-cycle FLOW-SURE valves providing an alternative flow path enabling well kill or continued flow, in the event of plugged screens or failed primary valve.

The FS-SS can also be used as an alternative to a traditional annulus rupture disc single shot circulating valve. This eliminates the need for an additional rupture disc operating window.

FEATURES

- > Configurable run closed or run open
- > Multiple tools can be run at the same time
- > Two independent control systems, for full redundancy for robust and reliable performance
- > Sleeve flow area larger than the full-bore ID
- > Non elastomeric dynamic seals

BENEFITS

- > Reduction in rupture disc operating windows
- > Up to 24 hours of rig time saved by removing need for wireline isolation
- > Valve position sensors providing fast, accurate decision making
- > Wireless, confirmation of command execution and control system position
- > No packer feed throughs required



Qualification: Contact Metrol API 19TT qualification report
Battery life: Contact Metrol
Specifications subject to change without notice

Discover more: metrol.co.uk

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SPECIFICATIONS

Version	FS-SS	FS-SS HT
Temperature Range	150°C [302°F]	175°C [347°F]
Max O.D	5.5" [139.7mm]	5.5" [139.7mm]
Max I.D	2.25" [57mm]	2.25" [57mm]
Length	13.99ft [4.26 m]	13.99ft [4.26 m]
Sleeve Cycles	Single Shot	Single Shot
Maximum Absolute External Pressure	18,000 psi [124 MPa]	18,000 psi [124 MPa]
Maximum Absolute Internal Pressure	18,000 psi [124 MPa]	18,000 psi [124 MPa]
Maximum Differential Pressure	15,000 psi [103 MPa]	15,000 psi [103 MPa]
Maximum Working External Pressure	15,000 psi [103 MPa]	15,000 psi [103 MPa]
Maximum Working Internal Pressure	15,000 psi [103 MPa]	15,000 psi [103 MPa]
Sleeve Opening Differential	5,000 psi [35MPa]	5,000 psi [35MPa]
Min. Hydrostatic Required	1,200 psi [8.3 MPa]	1,200 psi [8.3 MPa]
Tensile Rating	251,000 lbf [1,117 kN]	251,000 lbf [1,117 kN]
Compression Rating	251,000 lbf [1,117 kN]	251,000 lbf [1,117 kN]
Service NACE MR-0175	H2S, acid	H2S, acid
Connection Type	3.5" 15.8# PH6	3.5" 15.8# PH6

