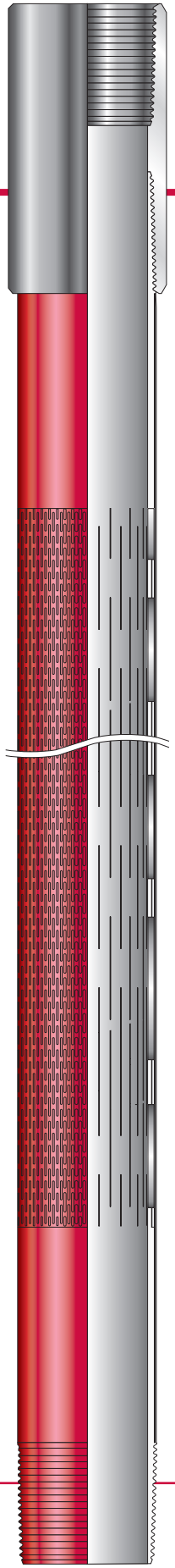
Weatherford®

7-in. ESS® Joint

Weatherford's 7-in. *ESS* expandable sand screen joint consists of a 7-in. base pipe with a slotted, expandable section to which overlapping weave layers are attached. An external layer of perforated, expandable shroud protects filter media from damage during deployment. Expansion is achieved from the surface using a low-pressure rotary compliant-expansion tool.



Features, Advantages and Benefits

- Compliant expansion eliminates screen/wellbore annulus for enhanced sand control integrity and borehole stabilization.
- Large ID in reservoir section optimizes production by improving flow performance.
- Large open to flow area and low delta P filter media improve well productivity and inflow performance.
- Joint connections are non-expandable and use premium threads for added durability.
- The *ESS* joint is compatible with the EZI™ openhole isolation device, enabling multizone, single-trip sand-control completions.

Weatherford International Ltd.
515 Post Oak Blvd., Suite 600
Houston, Texas 77027 USA
Tel: 713-693-4000
www.weatherford.com

© 2005–2006 Weatherford. All rights reserved.

7-in. ESS® Joint

Specifications

Material options	316L	25 Cr	Low-Carbon Steel (LCS)
Connection type[1]	VAM TOP® HT SC90 LH[2]		Tenaris Blue® SC LH[2]
Joint lengths available (ft)	38 and 20		38, 35, and 20
Base pipe weight (lb/ft)	29		
Pre-expansion running OD at coupling (in./*mm*)	7.56 *192.02*		7.51 *190.75*
Pre-expansion running ID at coupling (in./*mm*)	6.12 *155.45*		
Post-expansion typical OD range (in./*mm*)	7.56 to 9.25 *192.02 to 234.95*		7.51 to 9.25 *190.75 to 234.95*
Post-expansion final ID at coupling[3] (in./*mm*)	6.12 *155.45*		
Percentage of joint contributing to flow			
38-ft joint	87%		75%
35-ft joint	NA[4]		75%
20-ft joint	87%	86%	75%

[1]Box coupling x pin
[2]LH = left-hand connection
[3]Connections remain unexpanded
[4]NA = not applicable

Materials*

ESS joint	316L	25 Cr	LCS
Base pipe	316L	25 Cr	LCS
Connector	25 Cr		
Filtration media	316L	316L/Alloy 825	316L
Outer shroud			

*Alternative metallurgies available for more aggressive well environments

Filtration Media

Weave aperture (µm)	270	230	150	120

VAM TOP and Tenaris Blue are registered trademarks of their respective companies.

Weatherford International Ltd.
515 Post Oak Blvd., Suite 600
Houston, Texas 77027 USA
Tel: 713-693-4000
www.weatherford.com

Weatherford products and services are subject to the Company's standard terms and conditions, available on request or at www.weatherford.com. For more information contact an authorized Weatherford representative. Unless noted otherwise, trademarks and service marks herein are the property of Weatherford. Specifications are subject to change without notice. Weatherford sells its products and services in accordance with the terms and conditions set forth in the applicable contract between Weatherford and the client.

© 2005–2006 Weatherford. All rights reserved.