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Light Duty Flow Line Safety Restraint System

Weir SPM has developed and now offers a new light duty version of the Flow Line Safety Restraint System (FSR) for lower-pressure operations, like those commonly seen offshore.

Background

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In 2000, the FSR System was introduced as the world's first engineered high-pressure flow line restraint product. The system is currently used in both onshore and offshore applications. The FSR System has been utilized, and performed successfully in multiple flow line disengagements. Shell has conducted various product tests including load testing the spines and ribs and the joining (reef) knots, as well as measuring the linearity of the load-elongation and compared the results with round slings constructed to EN 1492-2. All results met Shell's requirements and the FSR System was listed as an approved engineered system in their "ABC Guide to Temporary Pipework" safety manual. In 2009, Shell requested Weir SPM develop a reduced-weight, Light Duty version of the FSR for use on lower-pressure applications.

Solution

Weir SPM values its relationship with Shell and in response to the request has since developed a second version of the FSR system to meet this new criteria. Features of the Light Duty system include lighter weight while continuing to meet all necessary strength requirements, increased water resistance, easier assembly, uniquely identifiable colors, and convenient inspection of product able to be performed by user.

The Weir Way

[INNOVATIVE ACTION]

[COLLABORATIVE MINDSET]

[GLOBAL CAPABILITY]

Weir SPM: Product Bulletin

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Specifications

Medium Duty FSR Color Code:

- Rib – Red
- Spine – Blue

Light Duty FSR Color Code:

- Rib – Yellow
- Spine – White

Medium Duty FSR Ratings:

- 2" Iron - 20,000 psi
- 3" Iron - 15,000 psi
- 4" Iron - 10,000 psi

Light Duty FSR Ratings:

- 2" Iron - 15,000 psi
- 3" Iron - 7,500 psi
- 4" Iron - 5,000 psi

Medium Duty FSR Weights:

(weight per foot of length)

- Rib - .85 lbs. / ft.
- Spine - 1.7 lbs. / ft.

Light Duty FSR Weights:

(weight per foot of length)

- Rib - .64 lbs. / ft.
- Spine - 1.00 lbs. / ft.

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