Eaton Synflex® Subsea High Pressure Hose with Guardian™ Overlay

2 Inch ID High Pressure Hoses Rated for 3750 & 5000 PSI Working Pressures with Guardian™ Overlay

Eaton is pleased to present two new products specifically designed for Subsea Oil & Gas applications. Following the tradition of all Synflex® products these hoses will provide many years of safe and reliable service in the most challenging environmental conditions.

Applications
• High flow rate applications
• Methanol injection
• Gas Lift applications
• Other injection and controls

Specifications
• 3394-32 hose is rated for 3,750 PSI working pressure with full API 17E rating and 4:1 WP to Burst ratio
• 3396-32 hose is rated for 5,000 PSI working pressure and 3:1 WP to Burst ratio
• Both products exceed 200,000 impulse test cycles
• Operating Temperature -40°C to 72°C (-40°F to 160°F)
• Lightweight at only 130 pounds per 100 ft.
• Patent-pending Guardian™ overlay

Advantages:
• Lightweight and flexibility allows use of smaller, lighter reels making for faster and easier deployment.
• Near negative buoyancy allows longer lengths without floats or cranes.
• Long continuous lengths eliminate heavy and bulky connections.
## Hose Buoyancy

### 3394-32 & 3395-32 Hose Weight

<table>
<thead>
<tr>
<th>Weight in Air</th>
<th>Weight in Seawater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unfilled</td>
<td>Filled</td>
</tr>
<tr>
<td>kg/100 m</td>
<td>200</td>
</tr>
<tr>
<td>lbf/100 ft</td>
<td>134</td>
</tr>
</tbody>
</table>

### 3394-32OVL & 3395-32OVL Hose Weight (with Overlay)

<table>
<thead>
<tr>
<th>Weight in Air</th>
<th>Weight in Seawater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unfilled</td>
<td>Filled</td>
</tr>
<tr>
<td>kg/100 m</td>
<td>307</td>
</tr>
<tr>
<td>lbf/100 ft</td>
<td>206</td>
</tr>
</tbody>
</table>

1. Reference Fluid Specific Gravity = 1.029
2. Reference Fluid = 208.0 kg/100 m of hose (139.8 lbs./100 ft of hose)
3. Seawater Density = 1029 kg/m³ (64.24 lbs./ft³)
4. Oversheath OD (ref) = 3.11 in 79.0 mm
5. Hose OD (ref) = 2.79 in 70.9 mm

**Note:** Only nominal hose and fluid weight are considered. Volumetric expansion, fitting weight, clump weight and dynamic loading are not considered.

## Kinked Hose Performance

Multiple new hose assemblies were kinked by folding the hoses upon themselves, past the minimum bend radius until the hoses collapsed/kinked. The hoses were allowed to return to natural shape. The hose assemblies subsequently passed API 17E impulse and burst testing at their rated test pressures.

## Crimp Fitting to Hose

Machine minimum: 325 ton-force (long) (3250 kN) with 115 mm (4.5 inch) die length.

## End Fittings

- **Cover** – Black Polyurethane
- **Reinforcement** – Kevlar® aramid fiber
- **Core Tube** – P40TLO grade Nylon 11

## Construction

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  - Eden Prairie, MN 55344
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