Offshore pipe insulation system for deep water

- distributing energy efficiency
LOGSTOR represents market leading experience and know how in the transmission pipeline market. Even the classic PipeInPipe solution is brought to the cutting edge by LOGSTOR logistical know how and innovation.

**Quality guaranteed**
LOGSTOR PipeInPipe is a certified quality product. Numerous options and features – including integrated water stops – facilitate quick and safe jointing and guarantee the perfect solution.

**Strong and durable solution**
The PipeInPipe system has market standard long service life, and has been specifically developed for deep-water applications. The system includes necessary joints and all accessories, where required.

---

**The short version**
LOGSTOR PipeInPipe is characterized by its innovative sandwich construction where the inner steel pipe, polyurethane foam insulation, HDPE jacket pipe and optional FBE coating are all bonded.
Improved logistics

Successful deep-water pipeline projects demand a dynamic combination of experience and know how within product technologies, project management and logistical skills.

LOGSTOR understands and delivers this, ensuring crucial rapid installation via

- Cutting pipe lengths according to customer specifications
- Double jointing where required
- Insulated field joints by means of two steel half shells
- Accurate tolerance match between cutback and jointing shells
- Backing strips for support of field joints during installation
140,000 km and counting
LOGSTOR is the world’s pre-eminent supplier of energy efficient pre-insulated pipe systems. These are the safest, most cost-effective way of transporting liquids and gases with temperatures ranging from -200°C to 250°C by pipe, with the absolute minimum of energy loss.

Our current production amounts to more than 10,000 km per year - and counting.

In addition to PipeInPipe, our systems are standard equipment in onshore and offshore oil and gas installations, marine applications, district heating and cooling, and industry in general.

ISO 9001 and ISO 14001 standards are the basis for the manufacture of all LOGSTOR pipes and components.

More information at www.logstor.com

Insulation
LOGSTOR’s insulation concept adds value to your project

- Polyurethane foam with high thermal conductivity
- Low U-value 0.3 – 1.5 W/m²K
- Sandwich construction
- Bonding to both service and jacket pipe
- Temperatures up to 150°C
- Long service life

Field joints
LOGSTOR’s insulation concept include field joints as an option

- Joint kits with all necessary components
- Thermal insulation to prevent cold spots
- Easy installation due to accurate tolerance match
<table>
<thead>
<tr>
<th>End user</th>
<th>Contractor</th>
<th>Project</th>
<th>Pipe system</th>
<th>Length</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shell</td>
<td>EMC</td>
<td>Penguin, North Sea</td>
<td>PipeInPipe</td>
<td>67 km</td>
<td>OD 10”/OD 16”</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OD 16”/OD 22”</td>
</tr>
<tr>
<td>Phillips</td>
<td>EMC</td>
<td>Jade, North Sea</td>
<td>PipeInPipe</td>
<td>0.5 km</td>
<td>OD 16”/OD 22”</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Spool Pipes</td>
<td></td>
<td>OD 16”/OD 20”</td>
</tr>
<tr>
<td>Texaco</td>
<td>Texaco (EMC)</td>
<td>Erskine, North Sea</td>
<td>PipeInPipe</td>
<td>30 km</td>
<td>OD 16”/OD 20”</td>
</tr>
<tr>
<td>ELF</td>
<td>Smit, Land &amp; Marine</td>
<td>Elgin/Franklin, North Sea</td>
<td>PipeInPipe</td>
<td>2 x 5 km</td>
<td>OD 12”/OD 17”</td>
</tr>
<tr>
<td>Shell</td>
<td>Allseas</td>
<td>Amerada Hess, North Sea</td>
<td>PipeInPipe</td>
<td>30 km</td>
<td>OD 12’/OD 18”</td>
</tr>
<tr>
<td>Shell</td>
<td>Allseas</td>
<td>Mallard, North Sea</td>
<td>PipeInPipe</td>
<td>15.3 km</td>
<td>OD 8”/OD 16”</td>
</tr>
</tbody>
</table>