



Elastopipe™

# A flexible piping system

Technological developments have revolutionized deepwater drilling and production in recent years and the need for high performance, robust and dependable topside solutions has never been greater. In an emergency it is paramount that the deluge system delivers water where it is needed at the correct pressure, no matter the situation.

Regardless of explosions, impact from flying debris, project lifetime, or jet fire, the piping system needs to operate safely and effectively every time. Current rigid piping systems, whether metallic or fiberglass, have potential limitations including loss of pressure over time, increased corrosion potential, stress cracking, weakness against impact or explosion, and increased testing and maintenance costs.

Trelleborg offers a new way of piping with the first corrosion-free, explosion, impact, and jet fire resistant flexible piping system called Elastopipe™. This next generation system uses synthetic rubber instead of traditional materials and is the only piping material approved for offshore deluge systems that has survived sequential explosion, impact and jet fire testing. Elastopipe™ is a patented flexible piping system developed for transporting a variety of fluids and is available in two versions: Fire Resistant (FR) for fresh and seawater, and Fire and Oil Resistant (FOR) for hydrocarbons, solvents, additives, acids and hydrogen sulphide.

Elastopipe™ has been installed on offshore facilities globally since 1998. It is approved for use in 150lb systems and is rated up to 20 bar. Manufactured from reinforced synthetic rubber,



Elastopipe™ is non-corroding and can withstand jet fire with a heat flux of 390kW/m<sup>2</sup> and temperatures above +1400 °C/+2552 °F for one hour. This makes it an ideal material choice for use in any critical piping system on offshore oil and gas installations and ships, as well as many other hazardous environments.

If replacing a deluge system, Trelleborg offers a temporary deluge system providing complete firewater coverage during demolition or installation activities. This combined with no hot work allows you to continue producing throughout the replacement process.

Elastopipe™ has been independently tested and certified by DNV, as well as approved by Lloyds, RMRS, ABS and the US Coast Guard.

**Applications:**

- Fire water distribution
- Utility systems
- Nitrogen distribution systems
- Drain water
- Chemicals and hydrocarbon transportation
- Foam systems

**Benefits:**

- 100% corrosion free
- Explosion, impact and jet fire resistant
- Lower total installation costs compared to rigid pipes
- Maintenance-free operation during 30 year lifespan
- Minimizes marine growth compared to traditional materials
- No welding or hot work
- Quick and easy to install
- Reduces water hammer
- UV resistant

**Contact Us:**

Trelleborg's Applied Technologies division is an industry expert in delivering innovative and reliable solutions that maximize performance for our customers. Our vast range of specialized, customizable materials ensure peace of mind at every stage of your project. With reliable and efficient project management and manufacturing we endeavor to take performance to new levels by achieving your goals safely, on time and within scope.

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