

VICODA® SUCCESS STORY

INDUSTRY, AREA OF PIPELINE CONSTRUCTION

Damping of a pipeline, offshore area, Norway

PROJECT DATA

Brief description

Minimising vibrations on a pipeline underneath an offshore platform.

Project duration

10 weeks

Product Data Damper

Quantity: 2 polybutene dampers incl. pipe clamp

Resonance frequency: 3 Hz

Ø Pipes: DN900

PROJECT DESCRIPTION

A vibrating pipeline underneath a production platform in the North Sea was to be damped with a viscoelastic damper. Here, the climatic conditions (waves and salt spray) placed the highest demands on corrosion protection and thus on the proper functioning of the dampers to be used during their service life. Typical standard steel materials cannot be used because they do not meet the necessary requirements.

SOLUTION

Due to the position of the damper in an extremely corrosive environment below an offshore platform, it was necessary to manufacture the damper and pipe supports from duplex steel. A calculation of the environmental conditions showed that the damper could additionally be hit by waves in this area. To prevent water from entering the dampers, they were equipped with an additional sleeve.

