



Quick-Lock® adhesive-bonded joint



Volvo selects Bondstrand® 7000 GRE pipe and fittings for Torslanda factory fuel lines

Volvo is a leading car manufacturer with their main factory in Torslanda near Gothenburg in Sweden. As a result of the increasing awareness of climate change caused by human activities, VOLVO offers a large number of car models using environmentally friendly fuels. In 2006, Volvo asked their fuel installation supplier, NPS Entreprenad, for a solution to replace the existing steel fuel pipelines for in-plant distribution for gasoline, diesel, ethanol, RME and mixtures of the same. NPS, who has a long experience with Bondstrand, contacted IDENTIC AB, NOV Fiber Glass Systems distributor in Sweden. The cooperation resulted in a proposal to replace the old pipelines with Bondstrand 7000 Glassfiber Reinforced Epoxy (GRE) pipes.

Bondstrand 7000 is approved for all fuels and compatible with all mixtures of fuels. Bondstrand GRE pipe do not rust, neither is there risk of leaching or permeation through the pipe walls as with some other plastic pipe. An important safety factor is the fact that Bondstrand pipe have good fire endurance. The use of the conductive Bondstrand 7000 also prevents build-up of static electricity instead of statical electricities, eliminating the risk of sparks. Another major benefit for Volvo was the fact that it was a lot easier to meet fire protection requirements during installation as no welding was necessary. This resulted in lower installation costs and faster installation.

After a year of experience with the first installation, VOLVO decided to continue and replace all existing fuel lines in the Torslanda plant as well as build a new automated delivery terminal using Bondstrand GRE 7000 pipe.

Advantages

- Reduction in installation cost and time
- Expected long term service life 30 years
- Corrosion resistant
- Maintenance free
- Light weight material

Project

Volvo Torslanda plant fuel lines

Client

Volvo, Torslanda - Sweden

Pipe system

Bondstrand 7000 conductive pipe and fittings with Quick-Lock adhesive-bonded joints.

Diameter: 1, 1½, 2, 3 and 4 inch (25 - 100 mm)

Operating conditions

Operating pressure:	3 bar
Operating temperature:	-25 °C until +25 °C
Design pressure:	6 bar
Design temperature:	-30 °C until +50 °C
Test pressure:	8 bar

Installation date

2007 (and 2008 Phase II)