

# Plantware

## New Fuel Transfer and Water Installations

### Project Details

Project	New Fuel Transfer and Water Installations
Client	Royal Danish Navy
Contractor	L&H Rorbyg A/S
Built	Frederikshavn, Denmark
Year	2009

The Royal Danish Naval base in Fredrikshavn needed to upgrade the fuel transfer installations in order to prepare for changes in the environmental approval of the fuel transfer and storage facility. The original Italian pumps, pictured on the right, were installed in the early 1950's, and were equipped with a mechanical gearbox regulator for flow control.

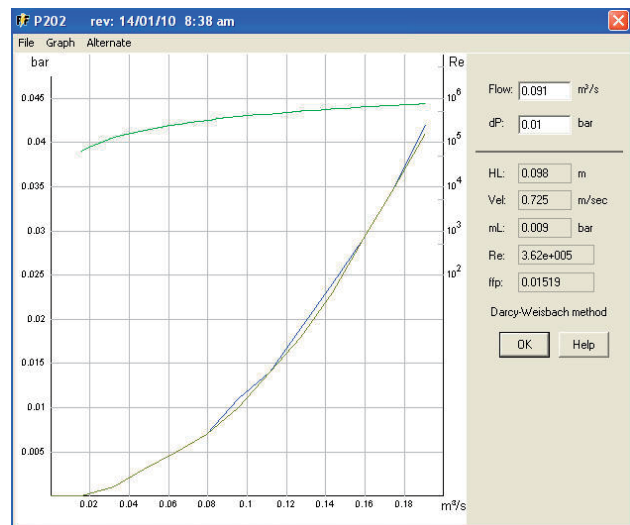
PlantWare designed the pump installation upgrades for L&H Rørbyg. The drawings for pump sizes, connection pipes and general layout were based on a 3D AVEVA PDMS model. PlantWare used PIPE-FLO® from Engineered Software, Inc. to calculate pressure losses in the more than 3 km long supply lines, and to select suitable pumps for the booster and service pumps.

PlantWare also designed the new installation including PID, pumps selection, pipe design and general arrangement of the installation, for receiving and supplying both drinking water and demineralised water to the naval ships.

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Above pictures show the new installation for drinking and demineralized water. The water supply was based on Grundfos pump units.