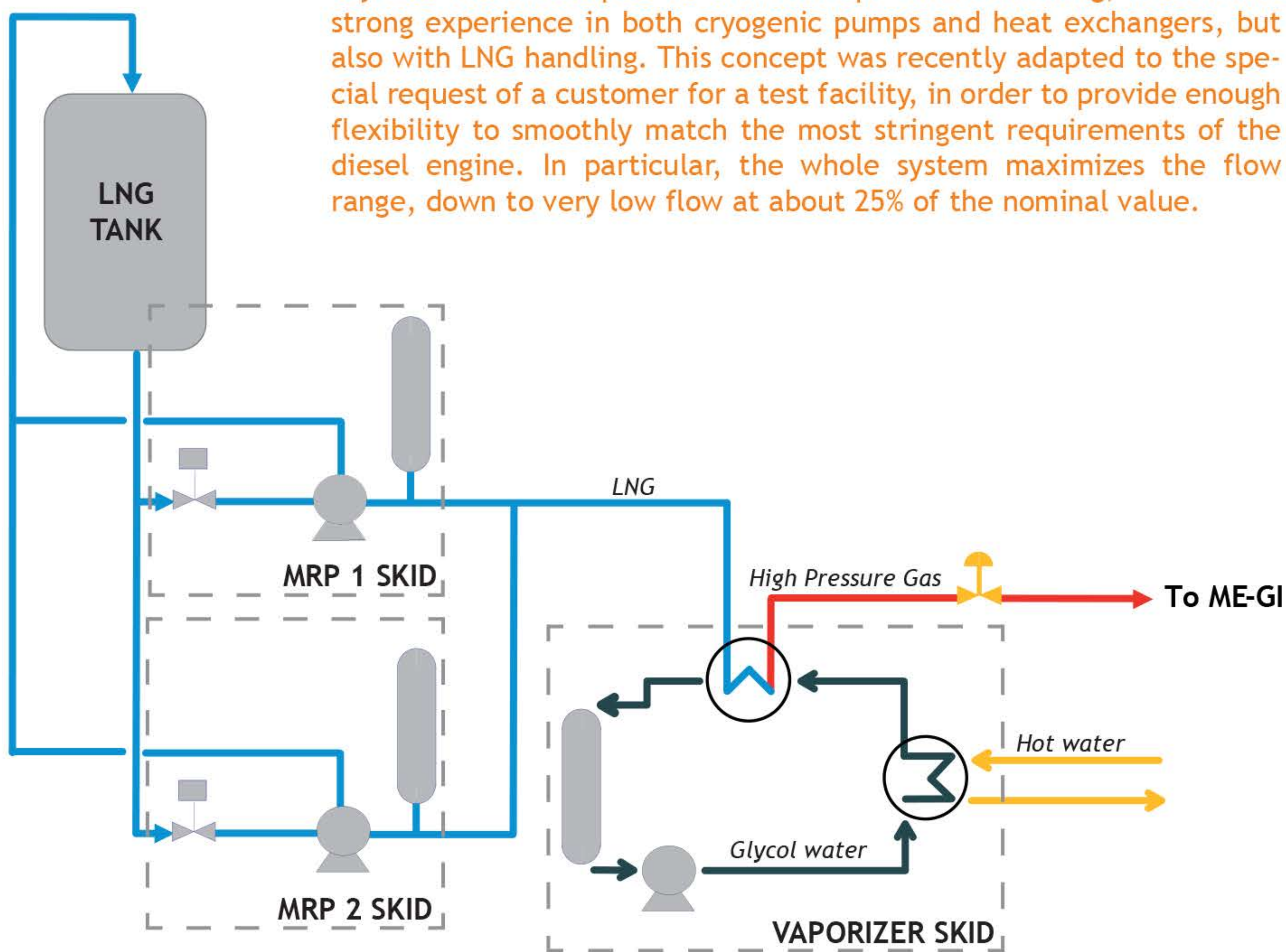




★ Fuel Gas Supply System at 320 bars

Cryostar has developed its own concept of LNG fuelling, based on a strong experience in both cryogenic pumps and heat exchangers, but also with LNG handling. This concept was recently adapted to the special request of a customer for a test facility, in order to provide enough flexibility to smoothly match the most stringent requirements of the diesel engine. In particular, the whole system maximizes the flow range, down to very low flow at about 25% of the nominal value.



This demonstrator is a “first in the world” due to the fact that all equipment and control system (out of the LNG tank and diesel motor) were designed, manufactured and tested by a unique company, Cryostar. This integrated approach has tremendous advantages for customers and endusers as a single company is now in charge of all the important interfaces and provides a coherent solution from tank to engine, for newbuildings and also for retrofits.

DESIGN DATA

PUMPS (supplied by Cryostar)

- ★ 2 x MRP 40/55T - Piston type
- ★ Speed range : 80 > 400 rpm
- ★ Capacity : 1,5 m³/h
- ★ Suction pressure : 0,3 MPa
- ★ Discharge pressure : 32 Mpa

VAPORIZER (supplied by Cryostar)

- ★ Coil wound vaporizer (LNG/Glycol water)
- ★ Capacity : 93 kW
- ★ Inlet T° : - 135° C > Outlet T° : 45° C

INTERMEDIATE GLYCOL LOOP (supplied by Cryostar)

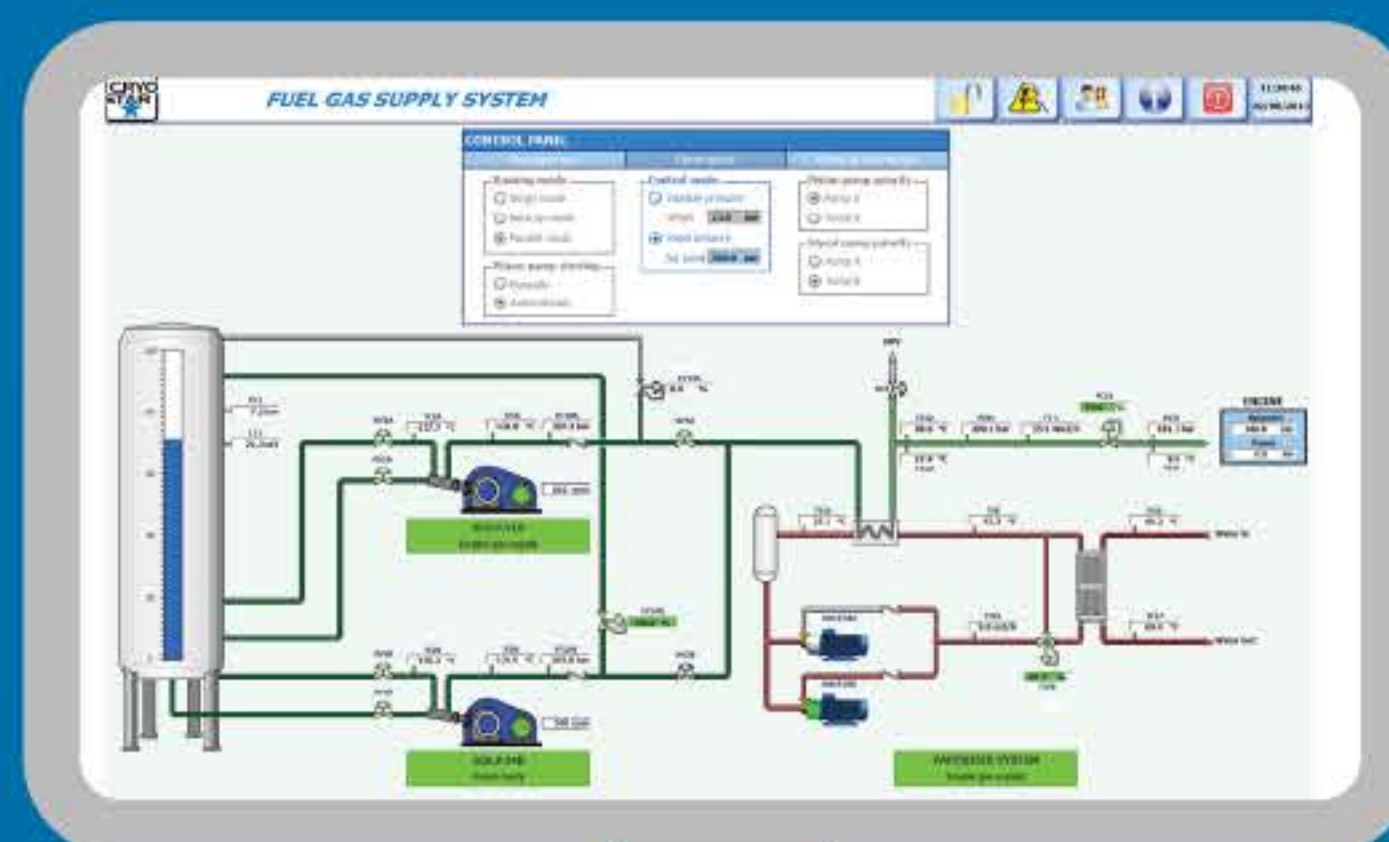
- ★ Plate heat exchanger (Glycol water/Hot water)
- ★ Capacity : 120 kW

CONTROL SYSTEM (supplied by Cryostar)

- ★ Control panel, remote I/O panel and supervision station
- ★ Complete control system including fixed or variable pressure control modes

ENGINE (supplied by customer)

- ★ MAN 2550ME-GI
- ★ Output : 3 320 kW



CONTROL SYSTEM



MRP PUMP

VAPORIZER SKID

