

LNG SUBMERGED PUMP ARTIKA series

DESCRIPTION >

The pump is hermetically closed without any dynamic seals (seal-less) and installed in a stationary cryogenic vessel, totally submerged in the cryogenic liquid. Under these circumstances, the pump is permanently in cold conditions, all the time ready for start. Besides, no seal-gas purge system is needed. The pump can be adapted to customers' needs because of a built-in kit system allowing to achieve two or four stages pumps.

APPLICATIONS >

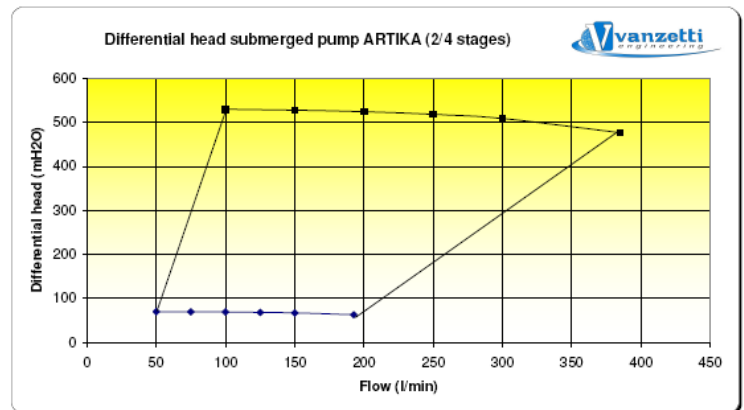
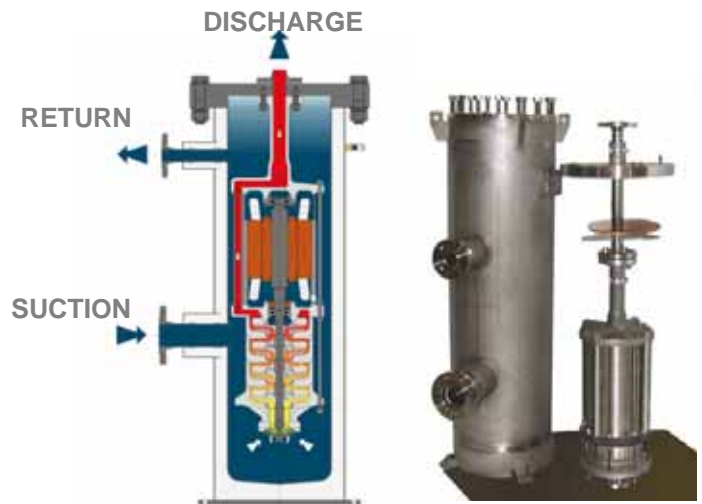
Process - Unloading / Loading - Transfer - Booster to feed piston pumps with sub-cooled liquid.

In our LNG pumping process (high pressure) we introduce the submerged pump as booster, feeding the piston pumps with sub-cooled LNG, like an hyper over-charger, in order to improve the operational reliability as follows:

- the submerged pump is permanently in cold conditions, so all the time to start
- the piston pump, feed by the submerged with sub-cooled LNG, will be cooled in very short time so all the time ready for automatic starting
- no-problem about cooling, NPSH and dry-running

Practically, the HP pumps system will be composed by a two stages pump, the first stage is the centrifugal submerged pump, the second one is the reciprocating pump.

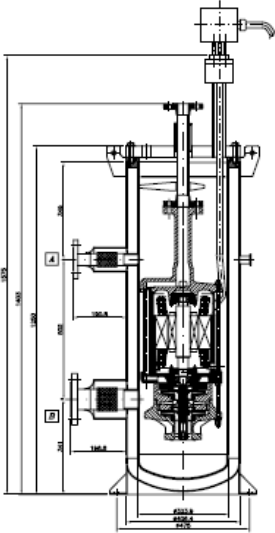
The pump is delivered in a stainless steel tank, high-vacuum insulated, with max working pressure of 25 bar (max. suction pressure).



Other available accessories-not included:

- vacuum suction DN65 / return DN40 hoses, for connection between LNG storage and submerged pump-tank
- vacuum hoses for connection between submerged pump-tank and LNG-dispenser
- electrical - PLC control panel for automatic and monitoring of unit by the PLC of the station
- frequency inverter

Submerged Pump 2 Stages



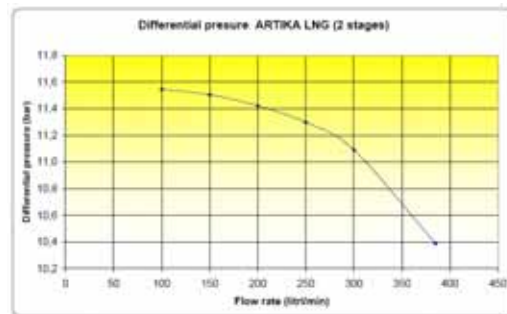
Pump data

(based for operation with frequency inverter)

Fluid: LNG

Stages; 160 dia. Impeller: 2

Installed power: electric motor 13kW 6000rpm 400V 2P 104Hz



Submerged Pump 4 Stages



Pump Data

(based for operation with frequency inverter)

Fluid: LNG

Stages 160 dia. impeller: 4

Installed power: electric motor 22kW 6000rpm 400V 2P 104Hz

