

## Press Release

# On the road to sustainability

*Vanzetti Engineering is celebrating the tenth anniversary this year of the first LNG/L-CNG pilot filling station in Italy, built in 2010 in Villafalletto, in the province of Cuneo. This plant represents the first step in a long journey that led the company to specialise in designing and manufacturing cryogenic pumps.*

*Cavallerleone, September 2020* - The use of liquefied natural gas as a road transport fuel is growing at an incredible rate, since it is cost effective, sustainable and moreover, safe. In Europe, Vanzetti Engineering is among the pioneer companies in this business, in 2008 it supplied the first pumps for L-CNG filling stations and this year it is celebrating **the tenth anniversary from the development of the first L-CNG station completely built by the Cuneo company** in 2010 in **Villafalletto**, in the province of Cuneo. In 2014, Vanzetti Engineering opened the first complete turn-key filling station for ENI: LNG for trucks and L-CNG for cars, again with the aim of opening the market in Italy.

After starting up the first stations and meeting its goal to create a new need on the Italian market, Vanzetti Engineering decided to drop the complete turn-key solutions, concentrating its efforts and investments on its core product, **cryogenic pumps**, with the aim of expanding the product range and relative applications, increasing their performance and reliability.

Cryogenic pumps are divided into centrifugal, reciprocating and submerged centrifugal depending on the role they play: from LNG transfer to regasification. Vanzetti Engineering also manufactures ambient vaporizers, if necessary in the process (for example for LNG\_L-CNG filling stations), to accompany the provision of its pumps.

The company has acquired very detailed know-how on the entire process related to LNG and L-CNG stations, creating and setting up equipment specifically tailored for these applications.

A Vanzetti Engineering natural gas filling station with cryogenic pumps is the best choice to fuel vehicles with natural gas engine (NGV) with compressed natural gas (L-CNG) or liquefied natural gas (LNG) storage. Vanzetti Engineering offers customized solutions for public stations and private fleets.

### L-CNG filling stations

Liquid natural gas is stored in a cryogenic tank, which provides the fuel to the high-pressure reciprocating pump. Compressed LNG is pumped through an ambient vaporizer, where it is warmed and transformed into compressed natural gas (CNG). To complete the process, the CNG is then stored in a gaseous buffer, ready for refuelling vehicles.

For this type of fuelling station the supply proposed by Vanzetti Engineering consists of: **reciprocating piston pump model VT1** with 800 Nm<sup>3</sup>/h capacity (or two pumps to double the flow-rate) 30kW electrical motor power installed; high pressure ambient vaporizer to regasify the LNG; cold charge group to optimize the CNG temperature and the gaseous storage efficiency (optional); high pressure ambient vaporizers for vents; distribution and safety panel to protect non-cryogenic components from temperatures that are too low and over pressures; electrical control cabinet (optional) with remote access for web browser monitoring.



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## LNG filling stations

Liquid natural gas (LNG) is stored in a cryogenic tank, which provides the fuel to the cryogenic centrifugal submerged pump. In the fuelling process, the pump carries out two main functions: to provide the fuel to the LNG dispenser for cooling of the lines and/or later supply of trucks and to pump the liquid to the LNG saturation (conditioning) heat exchanger for conditioning and preparation of the product before refuelling.

For this type of filling station, the supply proposed by Vanzetti Engineering consists of a submerged pump ARTIKA 160 suitable for one or two LNG dispensers, a medium pressure ambient vaporizer for LNG saturation (conditioning) and an electrical control cabinet (optional) with remote access for web browser monitoring.



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