

VAE CONTROLS GROUP

ADDITIVE DOSING UNIT EVAPLUS/ACCUPLUS

for adding small amounts of liquid additives to liquid

VAE
CONTROLS

ISO 9001
ISO 10006
ISO 14001
ISO 21500
ISO 27001
OHSAS 45001
NATO CONFIDENTIAL
SCC

KEY FEATURES

- Extraordinary additive flowmeter resolution – nominal K-factor 10000 pulses/litre
- Suitable for integration with any type of flow computer
- RS485 communication interface
- Compact dimensions
- Small internal volume
- Wide viscosity, flow and temperature range
- Easy installation and service
- Expandability



ATEX certified



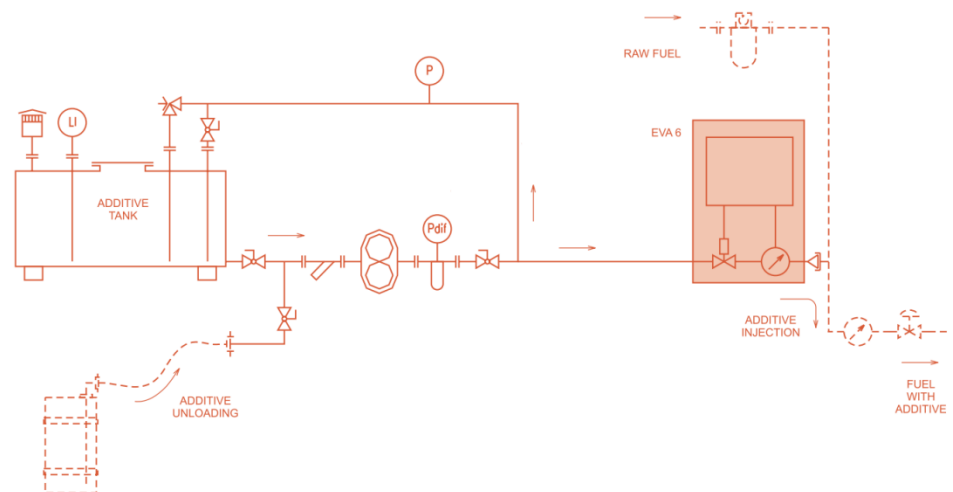
EVAPLUS/ACCUPLUS dosing unit is suitable for dosing of additives into light fuels. It is designed for outside installation in explosive hazardous areas zone 1. The equipment is designed as a compact unit consisting of hydraulic parts and electronic control module which is an integral part of the unit. The unit can be controlled also directly by suitable flow computer with appropriate capability.

APPLICATIONS

Light fuels (petrol, diesel, jet fuel or heating oil) are often dosed with additives, which improve their characteristics like engine cleaning, de-carbonisation, fuel lubrication, combustion, etc.

The injection of the additive agent into the product pipe is made when fuel is loaded to the tanktruck or railway car or less commonly when unloaded.

The dosing is regulated according to the specific recipe and according to the actual flow of the fuel to achieve stable additive ratio in the final product at any time.



Typical application scheme

PROFESSIONAL SOLUTIONS FOR OIL&GAS AND WATER INDUSTRY

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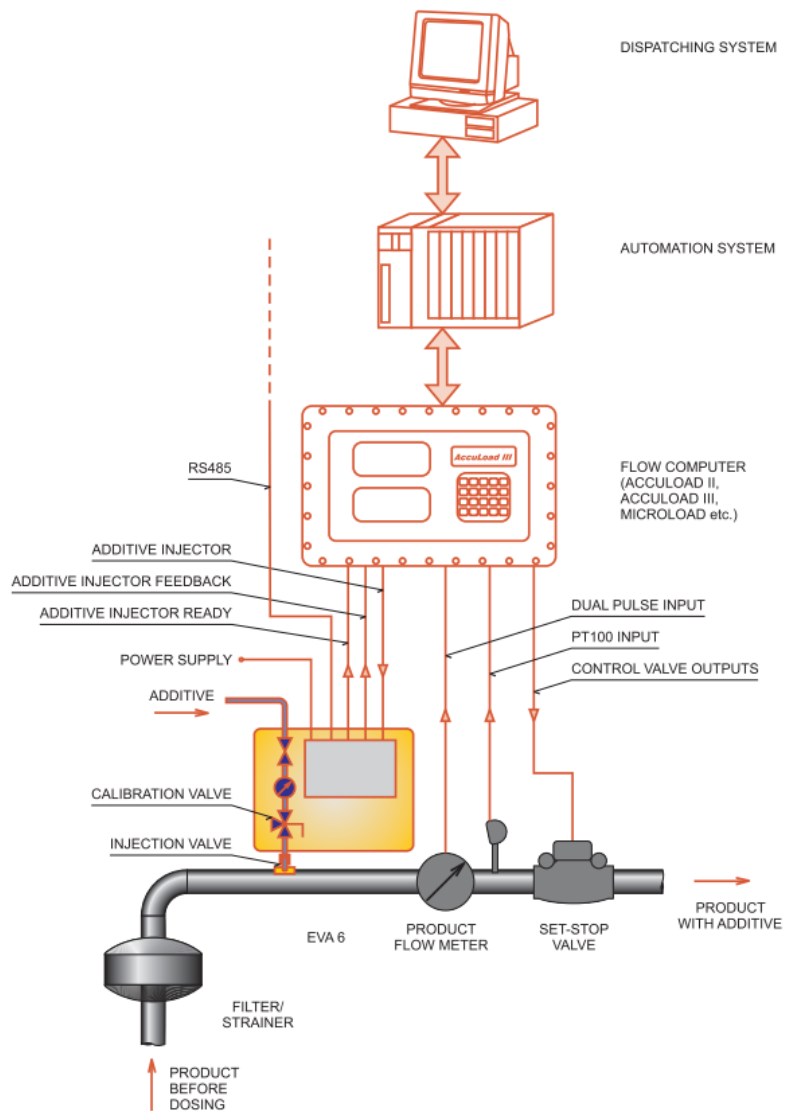
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FUNCTIONAL DESCRIPTION

The dosing unit is connected to the loading line and injects the additive agent according to the given recipe. The amount of the additive is dynamically controlled according to the product flow, which is usually measured with a flow meter or with a scale. The flow computer sends ADDITIVE INJECTOR pulses into the dosing unit. Each pulse states the injection of predefined amount of additive agent into the product. Dosing unit provides the injection of the additive, measures the additive quantity and confirms its amount by signal ADDITIVE INJECTOR FEEDBACK. Readiness for operation is signalled by ADDITIVE INJECTOR READY signal. The signal is resetted in case of failure - e.g. additive leakage or overflow. The unit is equipped with RS485 communication line which can be used for configuration, diagnostic and service purposes.

The outlet shall be connected directly to the product pipe before the product flow meter. Injection of the additive agent through a special spray valve ensures optimum mixing of additive in fuel.

Pressurized and filtered additive shall be fed into the dosing unit with elastic hose and quick coupler which reduces the installation and service costs.



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