

Addotronic Injection Unit

FEATURES

Robust and extremely accurate additive injector

Continuous additive injection – no problem with samplings

Mechanical totalizer – reconciliation possibilities

Flushing function – begins and ends each load with pure product

To prevent contamination, there is no need for a dedicated additive injector for each additive

General

Addotronic is designed to add additives into pressurized pipe systems that transport petroleum products. The system is designed for use in Hazardous Area Zone 1. The additive injection system can process up to 8 different additives with individual, adjustable rates through a single common injection point (standard version). A unique continuous injection principle combined with advanced control and monitoring functions provides extreme accuracy and ensures the quality of the final product.

References

PetroOnline has delivered over 1000 units, basically for the Scandinavian market, and the injector has proven its robustness and been running trouble free since beginning of the 1990's.

Installation

The injection unit is mounted at the loading bay as close as possible to the injection point. The injection module in the picture is one with only one additive, commonly used for coloring/dyeing.

Quality components

The injection unit is made in stainless steel and all couplings are made with Svagelok Tube Fittings.

The unit is equipped with lockable manual valves for testing/service.

The unit consists of two main components:

- Flow meter from VAF Instruments with mechanical totalizer, useful for testing/control/reconciliation.
- Control valve with electrical actuator from VALPES and valve from RAMEN

Technical data on next side.



Picture 1: Addotronic for coloring

The unit can either be clamped on to the product pipes or mounted in a cabinet as shown on the picture beneath.



Picture 2: Cabinet with multiple injectors

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Technical Data

Technical data pipe assembly:

Swagelok Tube Fittings, 316 stainless steel, rated working pressure up to 500 bar

Flow Meter

LoFlow Series 'M' Milliflow meters from VAF Instruments provide extremely accurate volumetric measurement of corrosive and viscous liquids over a range of 1 to 120 l/h and pressure ratings to 200 bar

Technical data - flow meter:

Producer:	VAF Instruments
Type:	M31 (J3010)
Flow rate:	1-20 l/h (J3010: 30-120 l/h)
Connection:	12 mm tube
Working temperature:	-20 °C - +60 °C
Accuracy:	+/- 0,5% of rate
Viscosity:	up to 500 mPa.s
Protection:	II 2 G EEx Ia II A T3
Pulse transmitters:	1 or 2 proximity switches according DIN 19234 (NAMUR)

Valve

Technical data - control valve actuator:

Producer:	Valpes
Type:	Serie SRX60.708K
Torque:	60 Nm
Duty rating at maximum torque:	50% of op.time
90° travel time:	17s
Working temperature:	-20 °C - +65 °C
Rated voltage:	230 VAC
Power:	24 W
Enclosure:	EEx d IIB T6
Certificate:	LCIE 02 ATEX 6186 X

Technical data - control valve:

Producer:	Ramen
Type:	KS
Dimension:	DN25
Max pressure:	40 bar
Max differential pressure:	25 bar
Working temperature:	-35 °C - +80 °C
Cv:	0.03, 0.3, 0.7 (optional other sizes)
Housing:	SS 2343
Seat:	Graphite filled PTFE
Sealing:	Silicon

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