

Metrological turbine metering system dedicated to deliveries by pump and gravity



Application

Enables delivery by pump and gravity of all refined hydrocarbons and urea, through full and wet hose for semi and rigid trucks.

- Deliveries by pump and gravity through a turbine meter
- Return product system with automated manifold control
- Full automated delivery by preset, preset with anticipated purge or free mode
- Automated purge for optimization of declared product quantity (5 liters max.)
- Delivery note and/or customized invoice printing
- On-board data system protocol



Product certification



Material in conformity with Measuring Instruments Directive 2004/22/EC



ISO 9001 : 2008

ISO 9001:2008



ATEX conformity
Zone 1 Gas group B



European certifications in accordance with directives concerning measuring instruments and equipment installed in explosive area

Constitution

- | | |
|---|--|
| <ul style="list-style-type: none"> ■ 4" ADRIANE Turbine: | <ul style="list-style-type: none"> - High accuracy and repeatability - Equipped with pulse emitter |
| <ul style="list-style-type: none"> ■ MICROCOMPT electronic calculator: | <ul style="list-style-type: none"> - Ergonomics strengthened - Fully automated delivery process |
| <ul style="list-style-type: none"> ■ Pressure sensor: | <ul style="list-style-type: none"> - Preset & flow dynamic management - Gas detection |

Product benefits

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| <ul style="list-style-type: none"> ■ No gas separator ■ Both automated & anticipated deliveries, rinse and purge ■ Compact size & lightweight | <ul style="list-style-type: none"> ■ Multi-product delivery with no pollution ■ Fast delivery with low pressure loss |
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Key features

GRAVITRONIQUE is a compact, MID - compliant, measuring system specifically for use on pumped and gravitational petrol and diesel distribution systems. It is suitable for both private and professional use.

Thanks to the advanced technology of our ADRIANE turbine, the GRAVITRONIQUE is simple to use for the distribution of all fuel types. Made up of a single high precision measuring chamber, it is lightweight and compact, and without the need for a mechanical gas separator.

MICROCOMPT+, the electronic calculator integrated into the electro pneumatic control box, allows a continuous regulation of the flowrate. The entire distribution process and product movement,

such as pre-set delivery and scheduled purges, is automatically controlled.

Drivers plan their delivery tour according to each client's fuel requirements, avoiding where possible the tedious manual procedure of rinsing or purging the delivery hose. The (GRAVITRONIQUE) system thus helps avoid cross pollution and mixed fuels thanks to the safety mechanism concerning the sequence of product movement, product returns, purging, rinsing ...

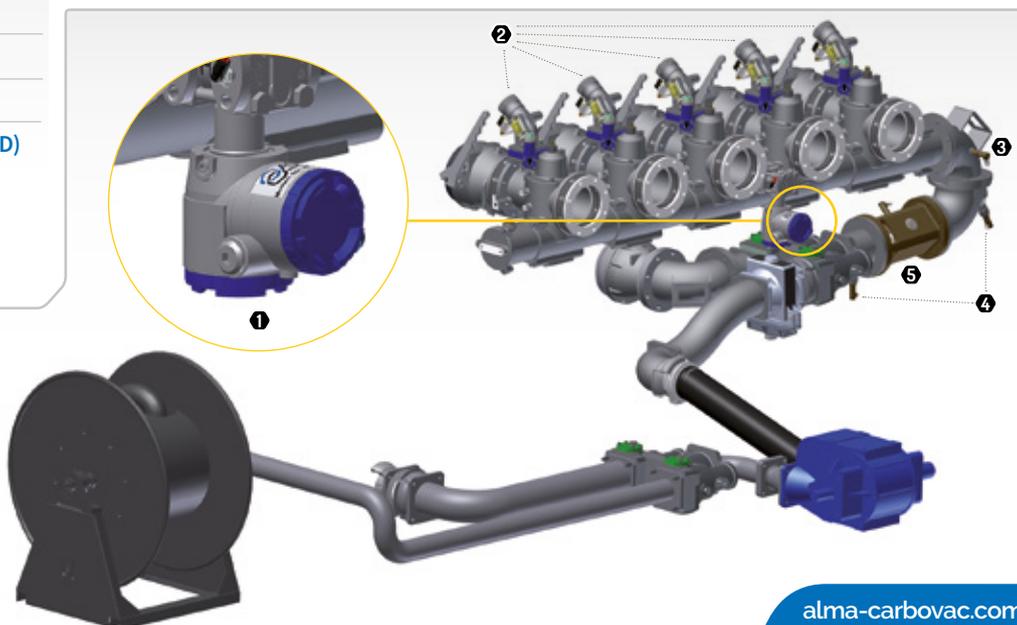
By using reliable and unrivalled durability of our products, clients can easily connect to the installed software, are guaranteed a greater traceability of data, make their deliveries safe, improve their productivity and minimize the need for maintenance interventions.

GRAVITRONIQUE	
Metered liquids:	All refined hydrocarbons (Heating oil, diesel, fuel, jet, urea, etc.)
Flow rate:	8 - 80 m ³ /h 133 - 1330 l/min
Accuracy class:	0,5
Accuracy:	0,1%*
Repeatability:	0,02%
Scale interval:	1L
Min. pressure:	Min.P≥0,3 bars (pumped) Patm (gy gravity)
Max. pressure:	20 bars
Compartment Number:	Up to 6
Temperature:	-25°C to +55°C
Weight:	19 kg
Temperature probe:	PT 100
Communication:	MODBUS or serial
Control box:	Electro-pneumatic
Printer:	EPSON TMU
Certificate:	CET LNE- 27785 (MID)

* Depending on the conditions of use

GRAVITRONIQUE REAR VIEW

- ① Pressure sensor
- ② Product return valves
- ③ Temperature probe
- ④ Gas detector
- ⑤ Turbine with sight glass



ADRIANE TURBINE	
Body:	Aluminum 243
Size:	4" DN100 TTMA
Atex:	Ⓔ II 2 G c IIC T6
Viscosity:	13 mm ² /s max.

MICROCOMPT+ Calculator	
LCD screen:	- Easy reading & simple navigation menu - Alarm messages integrated - Units L, m ³ /h, L/min, °C - Multi-language
Power supply:	4" DN100 TTMA
Atex:	Ⓔ II 2(1) G Ex [ia Ga] IIB T4 Gb
Memory:	365 days
Printing:	- End of day recap - Log of events - Delivery note - Invoice

Options	
Temperature conversion:	15°C or 20°C
Output deliveries:	2 wet hose + 1 full hose
Remote control:	3 or 4 buttons
System control:	- Product return - Additivition pump - Overfilling probes - Adblue
Assembly:	Single or dual manifold

On-board computer connection