

ZCE5

Vertical measuring unit for truck and railcar loading

ZCE5 vertical metering unit is designed for truck and train tankers loading stations in a top or bottom loading configuration. ZCE5 space-saving configuration enables easy installation in smaller facilities and in compact pipeline network.



1. Sectors of application

- Tanker trucks and railcars loading applications
- Preparation of bio-fuels by means of online or batch blending
- Measurement of white products and bio-fuels
- Additive injection control

2. High reliability measuring system

- **Ready-made technology**

ZCE5 vertical measuring units are completely assembled, wired and tested in the production facility in order to ensure a maximum reliability

- **Measurement stability and accuracy**

Measurement accuracy guaranteed over a period of many years without any deviation in the calibration curve

- **Modular design**

Extensive line of accessories to create customized measurement applications

3. Key points

- **Low installation costs**

Complete and ready-to-install compact measuring unit including strainer, air eliminator, PD meter, valve and register

- **Low maintenance costs**

Simple and robust construction with minimal moving mechanical components and interchangeable mechanical components

- **Space-saving installation**

Compact metering unit for installation in smaller areas and in vertical pipeline networks

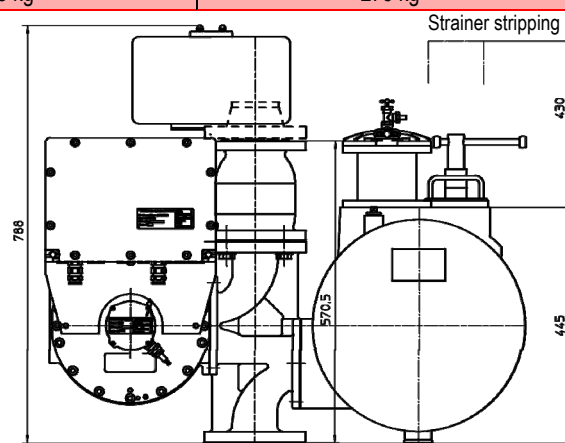
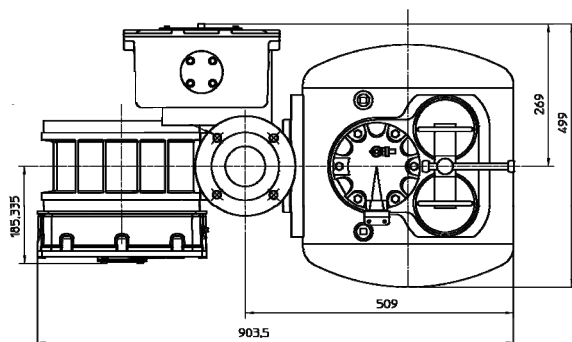
- **A safe and easy-to-use technology**

- Automatic gas purge system to start off-loading with empty tubing
- Filtering system with automatic clogging detection

Technical data

Application			Truck and railcar loading
Measuring system			ZCE5
Strainer-gas elimination device	EC29	3" et 4"	•
Meter	ZC17-80 150	3" – 4"	•
Flow register	VR (mechanical)		•
	Equalis		•
Multi-function valve	XAD37	3"	•
	XAD36	4"	•

Measuring system		ZCE5 -80	ZCE5-150
Maximum flow rate	m ³ /h / l/mn / USGPM	80 / 1333 / 360	150 / 2500 / 660
Description		Compact vertical unit	
Measured parameters		Actual volume, temperature-corrected volume*, mass*, flow rate**, temperature* (* : only for electronic register version) (** : option for mechanical register version)	
Measured liquids		Petrol, premium fuels, diesel, E5...E85, bio-diesel, ethanol, methanol, kerosene, fatty acid methyl ester, oils	
Equipment	Strainer – Gas elimination device	50 to 450µ filtering (270 to 40 Mesh) depending on the liquid Gas release controlled by float and differential valve	
	PD meter	ZC17 80	ZC17 150
	Temperature measurement	4-wire Pt100 (option for electronic calculator version)	
	Multi-function valve	Small and large flow authorisation, flow limitation Electronically control for DN 2" to 6" and mechanical control DN 2" to 4"	
	Flow register	Mechanical register with pre set*, printer*, pulser* or Equalis electronic register with display, secure archiving of transactions	
Operating conditions	Pressure	10 bar max.	
	Maximum viscosity	50cSt max. – Ask us about greater viscosities	
	Temperature	Ambient : -40 to 60°C / Liquid :-10 to +80°C Ask us about higher or lower temperatures	
Metrological performance	Accuracy	≤±0.15% - Option ≤±0.1% - for measurement range of 10 : 1	
	Repeatability	≤±0.02%	
	Temperature accuracy	≤0.5°C	
Installation	Protection class	IP66 for electronic register version	
Custody transfer approval		MID - CE type approval n° LNE 6184	
Dimensions and weight	net weight without extension	200 kg	240 kg
	Net weight with extension	235 kg	275 kg



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