

Equipment	Vertical measuring system	
Model	ZCE5-150 with electronic register	
Performance characteristics		
Measured liquids	Liquid hydrocarbons, industrial oils, fatty acid esters, ethanol	
Static pressure	max	15 bar
Inlet pressure	max	10 bar
Liquid temperature	min / max	- 10°C / +90°C 14°F / +194°F
Working flow rate	min / max	15 m ³ /h - 250 L/min - 66 USGPM / 150 m ³ /h - 2500 L/min - 660 USGPM
Liquid viscosity	max	20 mm ² /s (MID) - 800 mm ² /s - at operating conditions
Accuracy	< +/- 0.15% of measured value	
Repeatability	< +/- 0.02% of measured value	
Pressure drop	See enclosed table	
Calibration report	On 3 points (15 m ³ /h, 75m ³ /h, 150m ³ /h)	
Description of the measuring system		
Components	1-Manifold 2-Strainer Air eliminator – EC29 3-Positive displacement meter – ZC17-150 4-Multi-function valve with electromechanical control box – XAD36 5-Electronic register - Equalis S	
1-Manifold		
Connection nominal size	DN 100 / 4"	
End connection style	Flanges ASA 150 RF	
Material	Steel (EN 1.0625)	
External coating	Acrylic-Epoxy coating RAL5010	
2-Strainer air eliminator - EC29		
Effective volume	53 L	
Materials	body / seal	Steel (EN 1.0625) / Viton, nitrile (option alcohols measurement)
Thermowell ports	Quantity 2, ½" gas, plugged	
Drain ports	1" ¼ gas, plugged	
Gas release head	Automatic gas release controlled by float and differential valve	
Gas release connection	¼"	
Dry contact for gas detection (AC10)	REED contact controlled by float position	
Valve on gas release pipe	Ball valve (option)	
Filtering technology	2 Basket filters	
Filtering size	50 µm, 200 µm, 450 µm (selection depending on measured product)	
External coating	Acrylic-Epoxy coating RAL5010	
3-Positive Displacement meter - ZC17-150		
Displacement element type	Sliding vanes flowmeter	
Cyclic volume	4,54 L - 1,12 USG	
Body material	Ductile iron (EN 5.3201), Ni resist iron (EN JL3011) (option)	
Cap/end cover material	Carbon steel with protective coating (EN 1.0625)	
Seal/O-ring material	Viton, Nitrile (option for alcohols measurement)	
Blades / Blades connection rods	Graphite / Stainless steel	
Rotor/ Bearings	Aluminum (EN AC-42100) / Stainless steel (EN 1.4301)	
Swing joint	Viton, Nitrile (option for alcohol), PTFE (option for low ambient temperature)	
Accuracy adjuster type	Calibration constants	
Temperature compensation type	With external Pt100	
External coating	Acrylic-Epoxy coating RAL5010	

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Equipment	Vertical measuring unit		
Model	ZCE5-150 electronic register		
4-Multi-function valve with electromechanical control box – XAD36			
Operating principle	Piston operated by differential pressure with electromechanically controlled inlet circuit.		
Cylinder material	Aluminum (EN AC-42200)		
Piston material	Aluminum (EN AW-5083) with lining		
Retaining spring material	Stainless steel		
Decompression ball - Thermal relief valve	Calibrated at 0.4 bar		
Adjusting screw	For closing time adjustment		
Electrical control box - AC16	Drive shaft controlled by 2 electromagnets allowing operation in low flow rate and high flow rate.		
Electromagnets specifications	220VAC 50Hz, peak inrush intensity: 2A, holding intensity: 1A		
External coating	Acrylic-Epoxy coating RAL5010, Marine Epoxy coating RAL5010(option)		
5-Register			
Register type	Electronic register		
Model	Equalis S		
Environmental			
Ambient working temperature	min / max	-25°C, -40°C (option) / +55°C	-13°F, -40°F (option) / +131°F
Storage temperature	min / max	-40°C / +80°C	-40°F / +176°F
Certification			
ATEX	II 2 G EX IIA T4 Gb		
European metrology	CE /MID Type examination certificate n°LNE-6184		
International metrology	OIMLR117-1, type compliance certificate n°LNE-24351		
National Weights and Measures approvals	Algeria, Russia. See note 1		
Standards compliance	API, ASME, NATO. See note 2		

Note 1: National Weight and Measures approvals are also available for other countries, contact us for further information.

Note 2: Contact us for further information about standards compliance.

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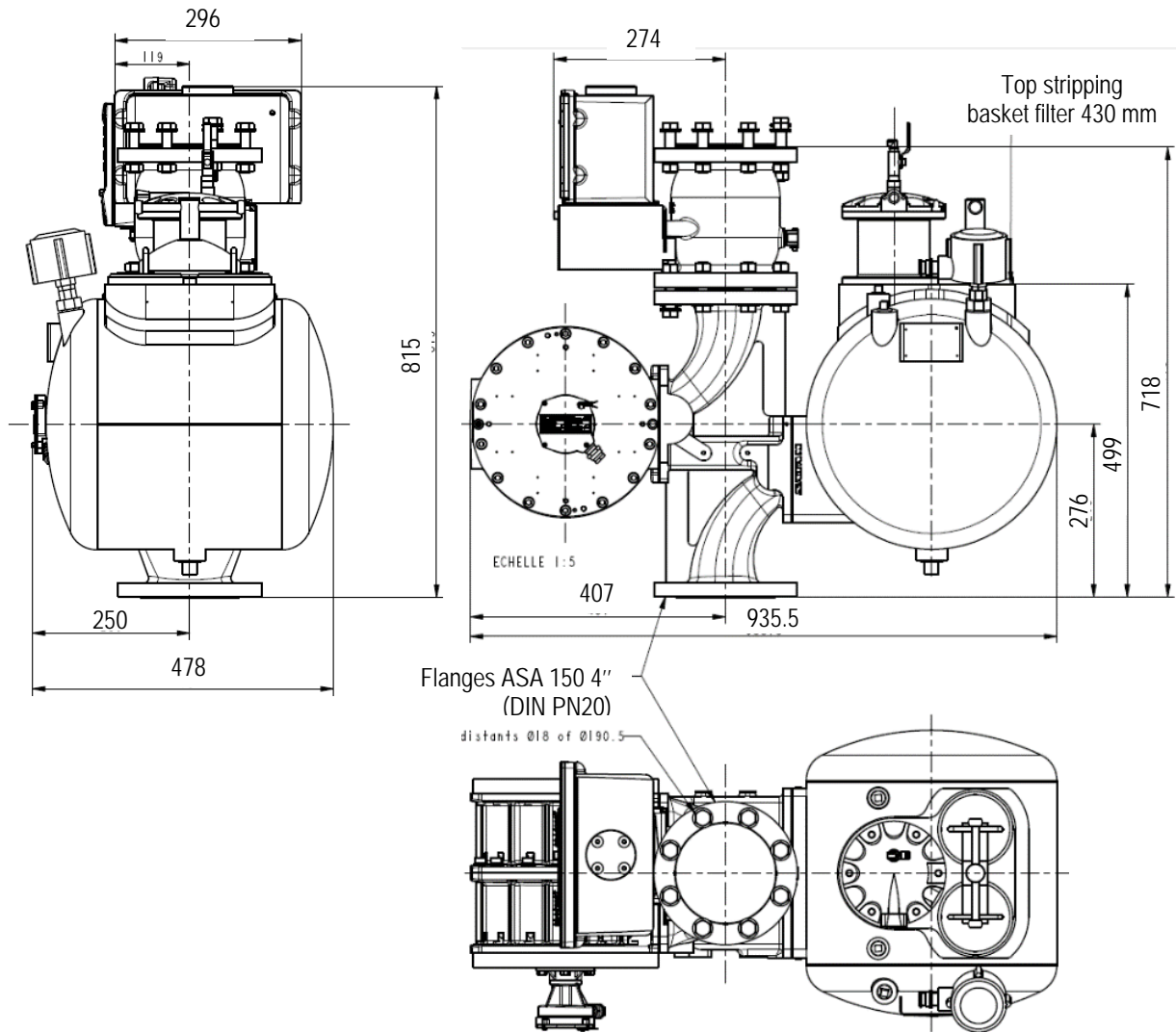
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Equipment	Vertical measuring system
Model	ZCE5-150 electronic register

Dimensions and weight

Dimensions and weight are mentioned without electronic register. Please refer to Equalis S data sheets for information about dimensions weight of electronic register.



Weight: 240 kg

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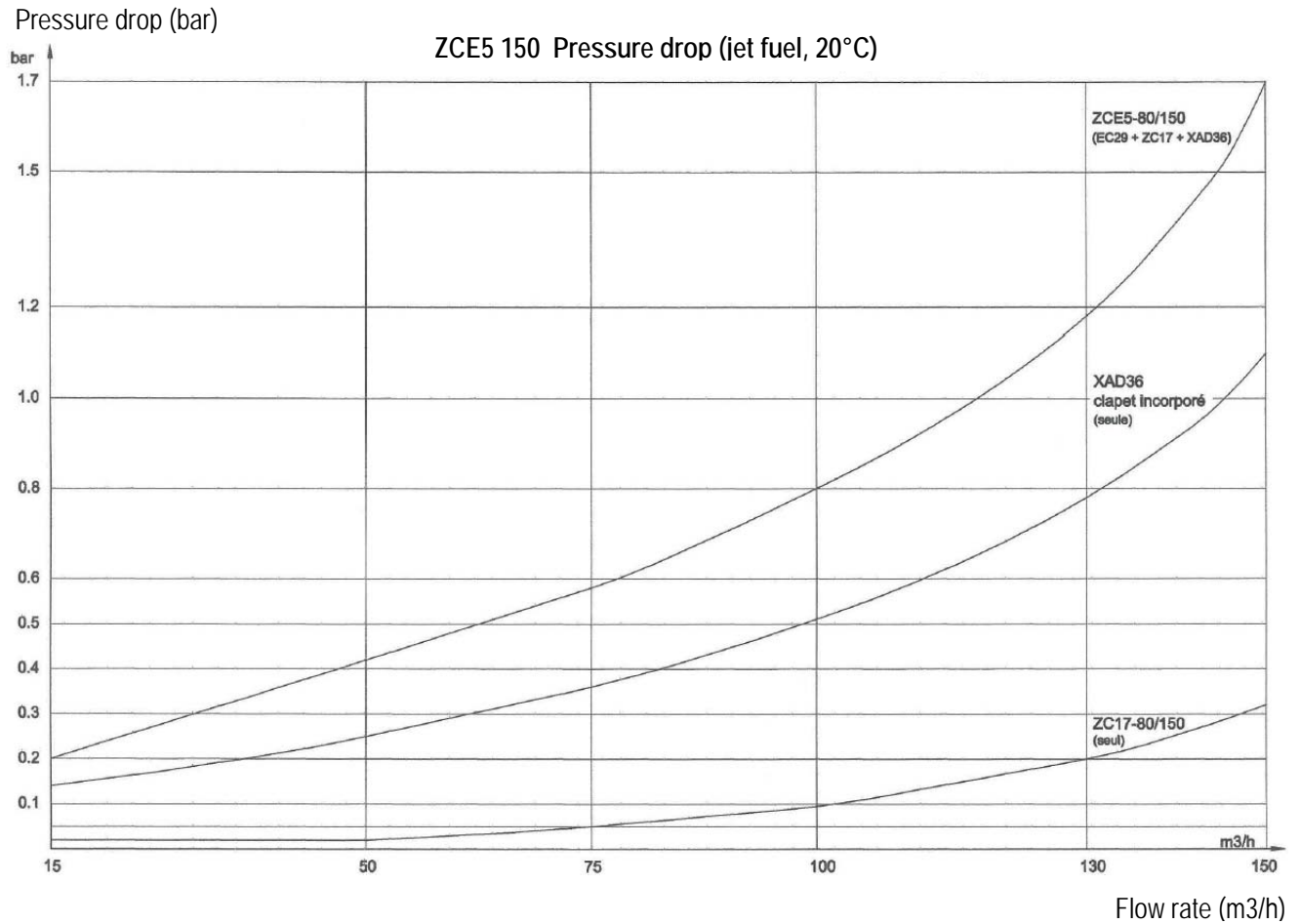
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Equipment	Positive Displacement meter
Model	ZCE5-150 electronic register

Pressure drop chart



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