

Equipment		Positive Displacement meter	
Model		ZC17-24 with electronic register	
Performance characteristics			
Measured liquids		Liquid hydrocarbons, industrial oils, fatty acid esters, ethanol	
Static pressure	max	15 bar	
Inlet pressure	max	8 bar	
Liquid temperature	min / max	- 10°C / +90°C 14°F / +194°F	
Working flow rate	min /max	2.4 m3/h - 40 L/min – 10.5 USGPM / 24 m3/h - 400 L/min – 105 USGPM	
Liquid viscosity	max	20 mm²/s (MID) - 800 mm²/s - at operating conditions	
Accuracy		+/- 0,15% of measured value	
Repeatability		+/- 0,02% of measured value	
Pressure drop		See attached pressure drop chart	
Calibration report		On 3 points (2.4 m3/h, 12 m3/h, 24 m3/h)	
Manifold			
Connection nominal size		DN 2"	
Material		Aluminum (EN AC-42200)	
End connection style		Satam flanges with welding counter flanges	
Flow direction/Mounting		PH2, PH1, perpendicular inlet and outlet – See attached document	
External coating		Acrylic-Epoxy coating RAL5010, Marine Epoxy coating RAL5010 (option)	
Flowmeter body			
Body material		Ductile iron (EN 5.3201) with anticorrosion lining, Ni resist cast iron(EN-JL-3011) (option)	
Cap/end cover material		Carbon steel (EN 1.0625) with protective coating	
Seal/O-ring material		Viton, Nitrile (option for alcohol measurement)	
External coating		Acrylic-Epoxy coating RAL5010, Marine Epoxy coating (option)	
Measuring chamber			
Displacement element type		Sliding vanes flowmeter	
Cyclic volume		0,40 L - 0,10 USG	
Blades / Blades connection rods		Graphite / Stainless steel	
Rotor / Bearings		Aluminum (EN AC-42200) / Stainless steel (EN 1.4301)	
Swing joint		Viton, Nitrile (option for alcohols), PTFE (option for low ambient temperature)	
Drive train and adjuster			
Drive type		Mechanical transmission	
Accuracy adjuster type		Calibration constants	
Pulses transmitter		Type AC30	
Temperature compensation type		External Pt100	
Register			
Register type		Electronic register	
Model		Equalis S or equivalent	
Environmental			
Ambient working temperature	min / max	-25°C, -40°C (option) / +55°C	-13°K, -40°F (option) / +131°F
Storage temperature	min / max	-40°C / +55°C	40°F / +131°F
Certification			
ATEX		Zone 1 II 2 G - See note 1	
European metrology		CE /MID evaluation certificate n°LNE-11052	
OIMLR117		Type compliance certificate n°LNE-24351	
National Weights and Measures approvals		Algeria, Australia, China, Russia, Serbia. – See note 2	
Standards compliance		API, ASME, GOST, NATO. See note 3	

Note 1: See AC30 and Equalis S data sheets for Ex approvals characteristics.

Note 2: National Weights and Measures approvals available for other countries, contact us for further information.

Note 3: Contact us for further information about standards compliance.

SATAM sas**Headquarters & Sales Department**

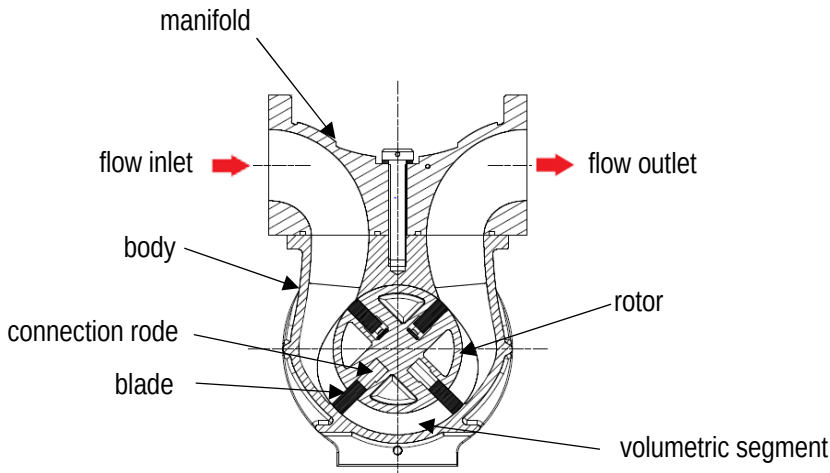
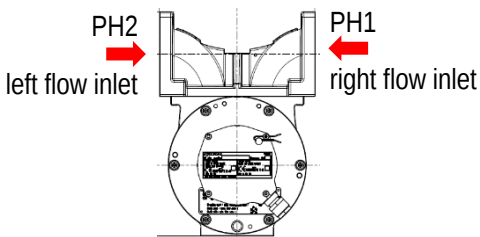
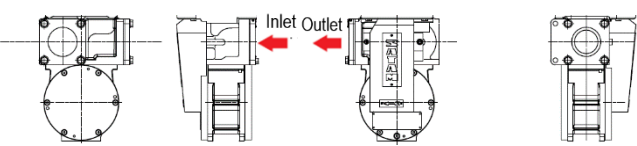
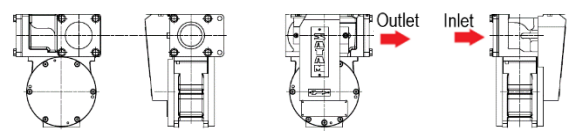
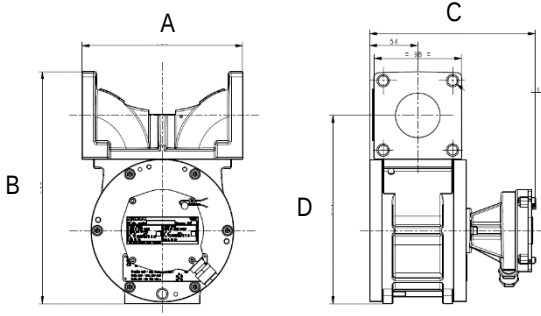
Paris Nord 2 – Bâtiment Le Gauvain
 47, allée des Impressionnistes – BP85012 – Villepinte
 95931 Roissy CDG Cedex – France
 Tel : +33 (0)1 48 63 02 11 – Fax: +33 (0)1 49 38 41 01
 Email : sales@satam.eu

Manufacturing facility

Avenue de Verdun
 14700 Falaise – France
 Tel : +33 (0)2 31 41 41 41
 Fax : +33 (0)2 31 40 75 61

www.satam.eu

DS003-Rev02-07/17-Marketing Satam
 Subject to modification without prior notice

Equipment	Positive Displacement meter												
Model	ZC17-24 with electronic register												
Working principle 													
Flow direction and mounting 													
 Back inlet left outlet	 Back inlet right outlet												
Dimensions and weight Dimensions and weight are mentioned without electronic register. Please refer to Equalis S data sheets for information about dimensions and weight of electronic register. <table border="1"> <thead> <tr> <th>Dimensions (mm)</th><th>ZC17-24</th></tr> </thead> <tbody> <tr> <td>A</td><td>180</td></tr> <tr> <td>B</td><td>260</td></tr> <tr> <td>C</td><td>186</td></tr> <tr> <td>D</td><td>211</td></tr> <tr> <td>Weight (kg)</td><td>14kg</td></tr> </tbody> </table> 		Dimensions (mm)	ZC17-24	A	180	B	260	C	186	D	211	Weight (kg)	14kg
Dimensions (mm)	ZC17-24												
A	180												
B	260												
C	186												
D	211												
Weight (kg)	14kg												

SATAM sas**Headquarters & Sales Department**

Paris Nord 2 – Bâtiment Le Gauvain
 47, allée des Impressionnistes – BP85012 – Villepinte
 95931 Roissy CDG Cedex – France
 Tel : +33 (0)1 48 63 02 11 – Fax: +33 (0)1 49 38 41 01
 Email : sales@satam.eu

Manufacturing facility

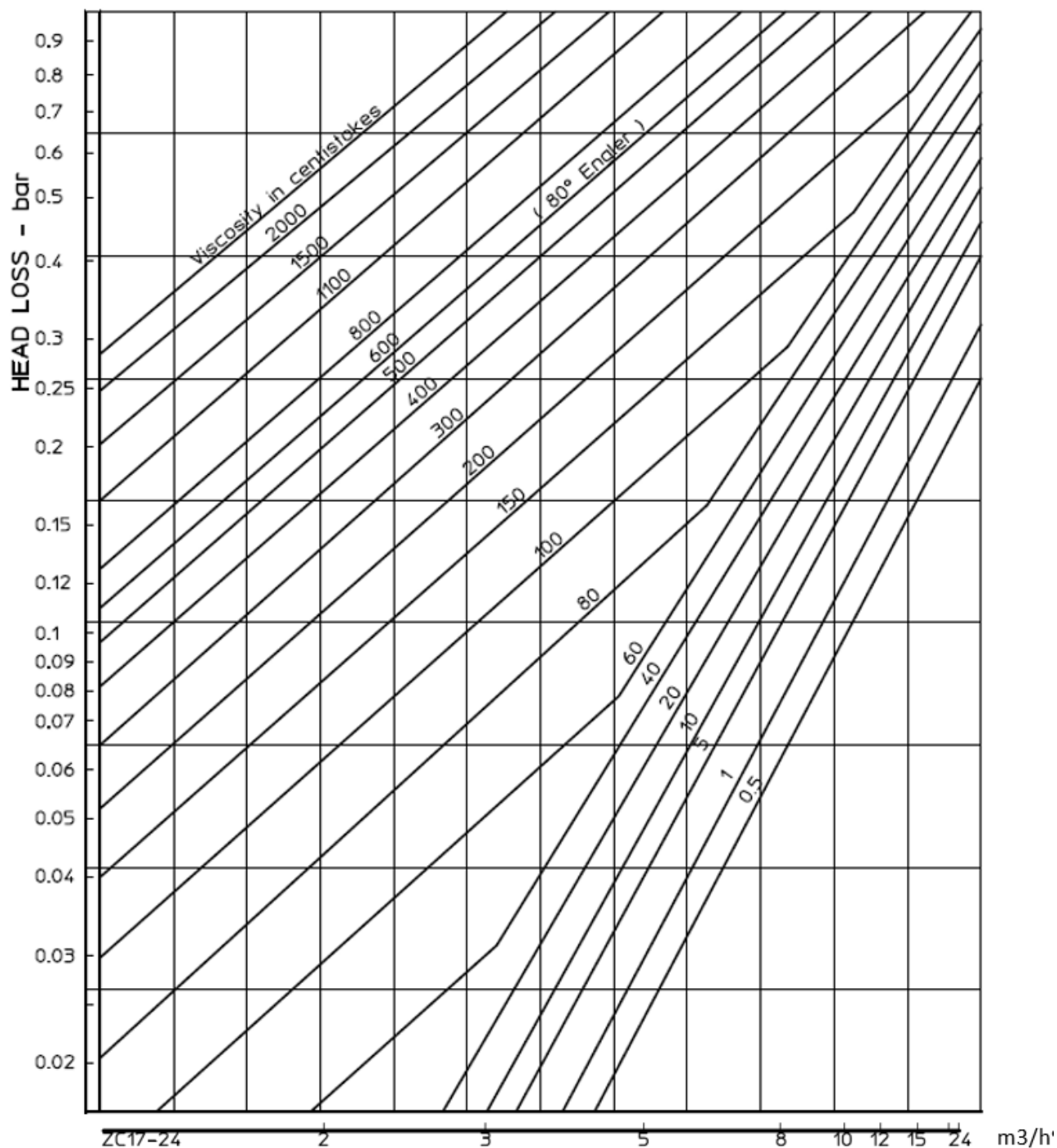
Avenue de Verdun
 14700 Falaise – France
 Tel : +33 (0)2 31 41 41 41
 Fax : +33 (0)2 31 40 75 61

www.satam.eu

DS003-Rev02-07/17-Marketing Satam
 Subject to modification without prior notice

Equipment	Positive Displacement meter
Model	ZC17-24 with electronic register

Pressure drop chart



SATAM sas

Headquarters & Sales Department

Paris Nord 2 – Bâtiment Le Gauguin
47, allée des Impressionnistes – BP85012 – Villepinte
95931 Roissy CDG Cedex – France
Tel : +33 (0)1 48 63 02 11 – Fax: +33 (0)1 49 38 41 01
Email : sales@satam.eu

Manufacturing facility

Avenue de Verdun
14700 Falaise – France
Tel : +33 (0)2 31 41 41 41
Fax : +33 (0)2 31 40 75 61

www.satam.eu

DS003-Rev02-07/17-Marketing Satam
Subject to modification without prior notice