

Equipment	Master meter
Model	ZCM17-250 with mechanical register
Performance characteristics	
Measured liquids	Liquid hydrocarbons, industrial oil, 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	25 m3/h - 416 L/min - 110 USGPM / 250 m3/h - 4166 L/min - 1100 USGPM
Liquid viscosity max	20 mm²/s (MID) - 800 mm²/s - at operating conditions
Accuracy	< 0.1% of measured value
Repeatability	< 0.02% of measured value
Pressure drop	See attached pressure drop chart
Calibration report	According to OIML R117-1 / One calibration report per operating viscosity Calibration at 7 flowrates with 2 repetitions per flow rate Calibration at 25, 62, 100, 137, 175, 212, 250 m3/h
Flowmeter manifold	
Connection nominal size	DN 150 / 6"
Material	Steel (EN 1.0625), Steel with AMERON anticorrosion internal lining (option)
End connection style	Flanges ASA 150 RF
Coating	Acrylic-Epoxy coating RAL5010, Marine Epoxy coating RAL5010 (option)
Flowmeter body	
Body material	Ductile iron (EN 5.3201), Ni resist iron (EN-JL3011) (option)
Cap/end cover material	Carbon steel (EN 1.0625) with protective coating
Seal/O-ring material	Viton, Nitrile (option for alcohols measurement)
External coating	Acrylic-Epoxy coating RAL5010, Marine Epoxy coating RAL5010 (option)
Measuring chamber	
Displacement element type	Sliding vanes flowmeter
Cyclic volume	6,82 L - 1,8 USG
Blades / Blades connection rods	Graphite / Stainless steel
Rotor / Bearings	Aluminum (EN AC-42100) / Stainless steel (EN 1.4301)
Swing joint	Viton, Nitrile (option for alcohols), PTFE (option for low ambient temperature)
Drive train and adjuster	
Drive type / Accuracy adjuster type	Mechanical transmission / AB21
Register	
Register type	Mechanical register
Model / Accessories	VR7887, 5 digits / Preset with valve, printer, pulses transmitter
Flowrate indicator	
Display	Indication in L/min, option: m3/h, USGPM
Accessories	
Temperature measurement	Local display (option)
Pressure measurement	Local display
Trolley version (option)	
Trolley	Calibration device mounted on chassis with 4 pivoting wheels
Connecting pipes between meter and hoses	Quantity 2, Steel (EN 1.2506)
Flexible hoses / Connections	3mL / Loose type flanges 6"ASA 150lbs, TODO type couplings, CAMLOCK type couplings
Isolating valve	Ball valve located downstream the meter (option)
Drainage equipment	Manual drainage pump with purge valve, hoses and 2 release valves
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	Zone 1 II 2 G

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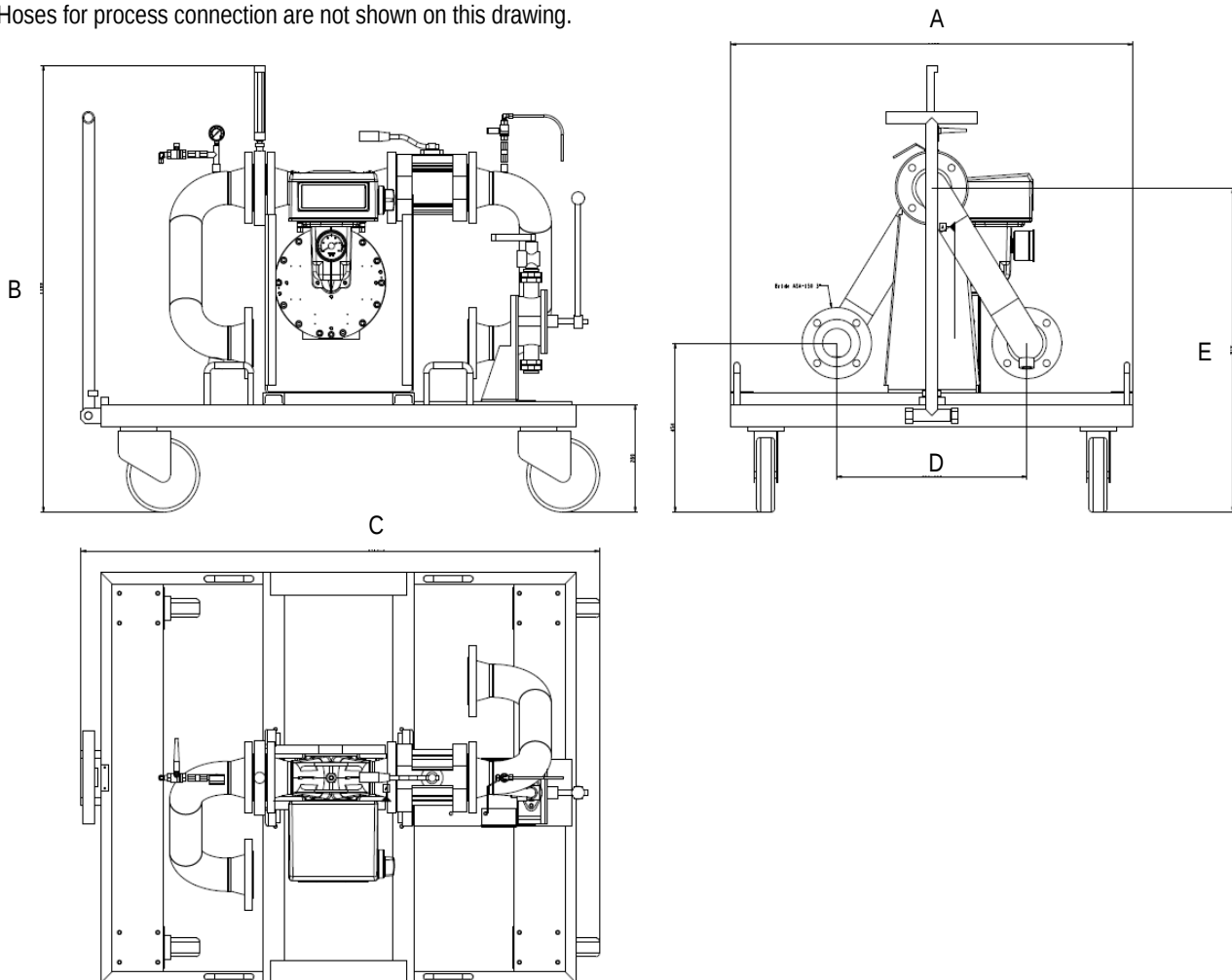
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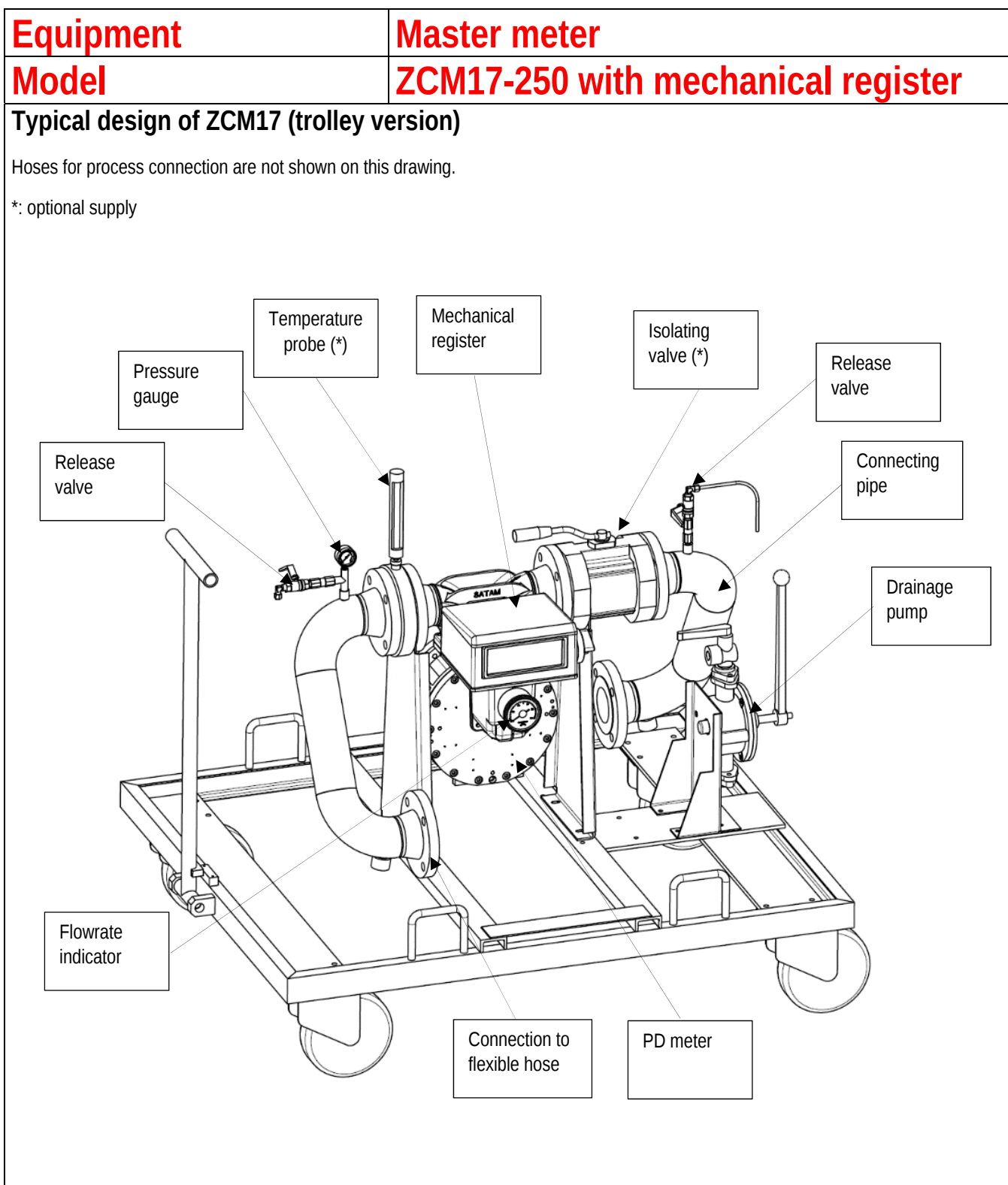
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Dimensions (trolley version) Hoses for process connection are not shown on this drawing.															
															
<table border="1"> <thead> <tr> <th>Dimensions (mm)</th><th>ZCM17-250</th></tr> </thead> <tbody> <tr> <td>A</td><td>1400</td></tr> <tr> <td>B</td><td>1200</td></tr> <tr> <td>C</td><td>1800</td></tr> <tr> <td>D</td><td>700</td></tr> <tr> <td>E</td><td>980</td></tr> <tr> <td>Weight (kg)</td><td>450</td></tr> </tbody> </table>	Dimensions (mm)	ZCM17-250	A	1400	B	1200	C	1800	D	700	E	980	Weight (kg)	450	
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