

Micro Motion® ELITE® High Capacity Coriolis Meters

Now available in Super Duplex alloy

Emerson's full line of Micro Motion ELITE High Capacity meters cover 6" - 10" (150-250mm) nominal pipe sizes

Features and Benefits:

- New advanced alloy, Super Duplex, for corrosive and high pressure applications
- Ideal for corrosive production fluids, CO₂-EOR, and high pressure Natural Gas transmission
- Multivariable measurement – Mass Flow, Volume Flow, Density, Temperature
- Highest accuracy over wide turndown meets custody transfer requirements
- Superior two-phase flow measurement performance in batching, loading, and entrained gas applications
- Patented in-situ Meter Verification delivers fast, actionable, simplified performance checks
- No moving parts results in long term savings on maintenance and repair
- No straight run piping requirements reduce installation costs



CMFHC2Y CMFHC3Y

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ELITE High Capacity Coriolis Performance Specifications

Mass Flow Rate		
14.5psi or 1.0 bar	lbs/min	kg/h
CMFHC2Y	27,000	735,000
CMFHC3Y	50,000	1,360,000
2 bar Mass Flow Rate		
	lbs/min	kg/h
CMFHC2Y	48,000	1,306,000
CMFHC3Y	94,000	2,550,000
Liquid Mass Flow Accuracy	±0.10% of rate	
Liquid Volume Flow Accuracy	±0.10% of rate	
Gas Mass Flow Accuracy	±0.35% of rate	
Liquid Density Accuracy	0.0005 g/cc	
Pressure Rating	2320 psi (160 bar)	
High Temperature Rating	350°F (176°C)	
Tube & Manifold Materials	Super Duplex	
Case Materials	304L	
Process Connections	6-10"(150-250mm)	

Micro Motion Benefits	O&G, Refining, and Petrochemical	Pipeline, Loading, and Bunkering	Oil Production and Allocation
Purchase	<ul style="list-style-type: none"> • Improve plant uptime and availability • Reduce maintenance costs and effort • Improve plant efficiency and product quality • Improve measurement performance and accuracy • Improve the reliability of measurement accuracy 		<ul style="list-style-type: none"> • Ideal for offshore and near shore • Maximize production efficiencies • Reduce meter maintenance • Superb Chlorides resistance
Market Break-throughs	<ul style="list-style-type: none"> • First Coriolis meter to incorporate Super Duplex material • Most reliable and accurate flow metering with the lowest cost-of ownership • In-situ meter verification techniques to eliminate re-calibration and extend proving requirements • Flexibility for fluid changes, variety of applications and installation schemes • Increased feasibility to use Coriolis in larger line sizes • Process diagnostics for improved performance during entrained air, flashing and corrosive applications 		

Application Overview

- Blending
- Chloride corrosion resistance
- CO₂-EOR (Enhanced Oil Recovery)
- Concentration and density measurement
- Custody transfer
- High pressure Natural Gas transmission
- Loading and unloading
- Mass balance
- Multi-meter product transfer skids
- Natural gas check metering
- Pipeline leak detection
- Reactor charging
- Turbine fuel control



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