

Micro Motion Calculation Summary						
Date:		08.23.18				
Company:						
Project Name:						
Service:						
Sensor Model #:		CMF400M444N2EZEZZZ				
Sensor Tag(s):						
Transmitter Model #:		5700R12AEFAZZZAZZZZ				
Transmitter Tag(s):						
Wetted Material:		316L stainless steel				
Fluid:		LPG				
Fluid State:		Liquid				
Mass Flow Accuracy at Operating Flow (+/- % of Rate):		0.10000				
Density Accuracy at all Rates (+/-):		0.00050 kg/L				
Pressure Drop at Operating Flow:		0.09908 bar				
Sensor Minimum Pressure at operating conditions:		bar-g				
Velocity at Operating Flow:		6.02937 m/sec				
		Min	Operating*	Max	Design	Units
Flow Rate:		2,000	100,000	185,000		Ton(M)/hr
Pressure:			10,000			bar-g
Process Fluid Temperature:			20,000			C
Ambient Temperature:			20,000			C
Density:			0.550			kg/L
Viscosity:			0.010			cP
Gas only	Base Reference Temperature:	C			Density:	
	Base Reference Pressure:	kPa-a				
	Base Reference Density:	kg/L				
Process Connection:		DN150 PN40 EN 1092-1 F316/F316L Weld neck flange Form B1				
Process Connection Pressure Rating:		39.990 bar-g				
@ Temperature:		20.000 C				
Flow Rate	Ton(M)/hr	Mass Flow Accuracy +/- % of Rate	Pressure Drop* bar	Velocity* m/sec	Re	
185,000		0.100	0.338	11,154	44799976,370	
166,700		0.100	0.275	10,051	40368411,140	
148,400		0.100	0.218	8,948	35936845,910	
130,100		0.100	0.168	7,844	31505280,680	
111,800		0.100	0.124	6,741	27073715,450	
100,000		0.100	0.099	6,029	24216203,450	
75,200		0.100	0.056	4,534	18210584,990	
56,900		0.100	0.032	3,431	13779019,760	
38,600		0.100	0.015	2,327	9347454,530	
20,300		0.100	0.004	1,224	4915889,299	
2,000		0.985	0.000	0.121	484324,069	
*All pressure drop and velocity results are based on the process conditions (except flow rate) that are entered in the Operating column.						
Notes:						
Prepared by:		Project ID:		001-20180730-170148		
Instrument Toolkit		Version: 3.0 (Build209C)		Application: LPG		

CMF400M

