

Micro Motion Calculation Summary						
Date:		08.23.18				
Company:						
Project Name:						
Service:						
Sensor Model #:		CMF300M372N2EZEZZZ				
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:		0.15878 bar				
Sensor Minimum Pressure at operating conditions:		bar-g				
Velocity at Operating Flow:		8.04437 m/sec				
		Min	Operating*	Max	Design	Units
Flow Rate:		2,000	50,000	80,000		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:		DN100 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	
80,000		0.100	0.405	12.871	31646174,960	
72,200		0.100	0.330	11.616	28560672,900	
64,400		0.100	0.263	10.361	25475170,840	
56,600		0.100	0.203	9.106	22389668,780	
50,000		0.100	0.159	8.044	19778859,350	
41,000		0.100	0.107	6.596	16218664,670	
33,200		0.100	0.070	5.341	13133162,610	
25,400		0.100	0.041	4.087	10047660,550	
17,600		0.100	0.020	2.832	6962158,490	
9,800		0.100	0.006	1.577	3876656,432	
2,000		0.220	0.000	0.322	791154,374	
*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 DN100		

CMF300M

