

Micro Motion Calculation Summary						
Date:		08.23.18				
Company:						
Project Name:						
Service:						
Sensor Model #:		CMF300M371N2EZEZZZ				
Sensor Tag(s):						
Transmitter Model #:		5700R12AEFAZZZAZZZ				
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:		0.10182 bar				
Sensor Minimum Pressure at operating conditions:		bar-g				
Velocity at Operating Flow:		6.43550 m/sec				
		Min	Operating*	Max	Design	Units
Flow Rate:		2,000	40,000	55,000		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:		DN80 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	
55,000		0.100	0.192	8.849	21756745.280	
49,700		0.100	0.157	7.996	19660186.190	
44,400		0.100	0.125	7.143	17563627.100	
40,000		0.100	0.102	6.435	15823087.480	
33,800		0.100	0.073	5.438	13370508.920	
28,500		0.100	0.052	4.585	11273949.830	
23,200		0.100	0.034	3.733	9177390.737	
17,900		0.100	0.021	2.880	7080831.647	
12,600		0.100	0.010	2.027	4984272.556	
7,300		0.100	0.004	1.174	2887713.465	
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 DN80		

CMF300M

