

Micro Motion Calculation Summary

Date:	01.28.17				
Company:					
Project Name:	4220-EK-16-0005185				
Service:					
Sensor Model #:	CMF400M446N2FZE3ZZWG				
Sensor Tag(s):					
Transmitter Model #:	2700R11AFFEZDZPK				
Transmitter Tag(s):					
Wetted Material:	316L nerezová oceľ				
Fluid:	CRUDE OIL				
Fluid State:	Kvapalina				
Mass Flow Accuracy at Operating. Flow (+/- % of Rate):	0,05000				
Density Accuracy at all Rates (+/-):	0,20000 kg/m3				
Pressure Drop at Operating Flow:	1,27739 bar				
Sensor Minimum Pressure at operating conditions:	bar-g				
Velocity at Operating Flow:	13,65475 m/sec				
	Min	Operating*	Max	Design	Units
Flow Rate:	40000,000	350000,000	400000,000	400000,000	kg/hr
Pressure:	10,000	60,000	62,000	65,000	bar-g
Process Fluid Temperature:	-10,000	20,000	30,000	35,000	C
Ambient Temperature:	-25,000	20,000	35,000	40,000	C
Density:	810,000	850,000	890,000		kg/m3
Viscosity:		20,000			cP
Gas only	Base Reference Temperature:	C			Density:
	Base Reference Pressure:	kPa-a			
	Base Reference Density:	kg/m3			
Process Connection:	DN150 PN100 EN 1092-1 F316/F316L krková príruha vyhotovenie B2				
Process Connection Pressure Rating:	99,974 bar-g				
@ Temperature:	35,000 C				
Flow Rate kg/hr	Mass Flow Accuracy +/- % of Rate	Pressure Drop* bar	Velocity* m/sec	Re	
400000,000	0,050	1,646	15,605	48432,407	
350000,000	0,050	1,277	13,655	42378,356	
328000,000	0,050	1,129	12,796	39714,574	
292000,000	0,050	0,905	11,392	35355,657	
256000,000	0,050	0,705	9,987	30996,740	
220000,000	0,050	0,528	8,583	26637,824	
184000,000	0,050	0,376	7,178	22278,907	
148000,000	0,050	0,249	5,774	17919,991	
112000,000	0,050	0,149	4,370	13561,074	
76000,000	0,054	0,076	2,965	9202,157	
40000,000	0,102	0,032	1,561	4843,241	
*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:	Version: 3.0 (Build201A)		Project ID:	4220-EK-16-0005185 : 1028181	
Instrument Toolkit			Application:	CMF400	

CMF400M

