

GENERAL	1	Tag Number		FT-614B		Q-ty	1		
	2	Service			Propylene Product to R-440/1+2				
	3	P&ID No.	Req. / P.O. No.		OLP01011-DP-TH-FD016				
	4	Area Classification			Zone 1, II A, T3				
	5	Ambient Temperature	Min.	Max.	-36°C to 35°C				
	6	Idustry/Application			Oil & Gas				
LINE	7	Line Number			4340				
	8	Line Size	Inlet	Outlet	3"		3"		
	9	Piping Class	Material		B303		ASTM A333-6		
	10	Insulation	Tracing		N		N		
PROCESS DATA	11	Process Fluid / PED Group	Phase	Characteristics	Propylene / II		Liquid	FLAMMABLE	
	12	Vacuum	Over Pressure		N/A		N/A		
	13	Design Temperature (SEE NOTE 2)	Design Pressure		60 °C		28 bar(g)		
	14	Aggressive Components	Solid particle size / Concentration						
	15				Units	@ Min Flow	@ Norm Flow	@ Max Flow	
	16	Flow Rate				kg/h	3630,80	9790,00	10766,80
	17	Inlet Pressure				bar(g)	17,35	18,35	19,35
	18	Inlet Temperature				°C	15,0	21,0	25,0
	19	Inlet Density / Specific Gravity / Molecular Mass			kg/m3	526,54	517,02	510,57	
	20	Inlet Compressibility Factor FT-614B			-				
	21	Inlet Specific Heat Ratio (Cv/Cp)			-				
	22	Viscosity				cP	0,08	0,07	0,07
	23	Critical Pressure				bar(g)	45,19	45,19	45,19
	24	Vapour Pressure				bar(g)	7,85	9,36	10,48
	25	Conductivity				µS/cm			
	26	Meter D.P. Allowed			0,25 bar				
METERING ELEMENT	27	Type of measurement device			Coriolis Mass Flowmeter				
	28	Mount Type			Flanged (RF, ASME B16.5)				
	29	End Connects	Rating		Size by Vendor (SEE NOTE 3)		300#		
	30	Flange Face Finish			Ra 125 - 250 RMS				
	31	Instrument Range			0 ... 100 % of Qmax				
	32	Enclosure Material	Degree of Protection		Low Copper Alu. Alloy with Epox.-Polyester paint.		min IP66		
	33	Tube Material			min SS				
	34	Liner Material							
	35	Electrode Type	Electrode Material						
	36	Float Material							
37	Electrical Connections								
38	Accuracy			±0,1%					
TRANSMITTER	39	MFR	Model		-		-		
	40	Mounting			Compact, Electronics Integrated with Flow Meter				
	41	Calibrated Range			0±10 t/h				
	42	Electrical Connection			M20x1.5 - 2 pcs. (cable glands for power supply and signal cables)				
	43	Electrical Certification			EEx d				
	44	Output Signal	Load		4...20mA + HART, EEx i passive				
	45	Other Output Signal							
	46	Power Supply	Consumtion		230VAC				
	47	Accuracy	Repeatability		±0,1%				
48	Protection			IP66					
TESTS	49	Hydro. Pressure			YES				
	50	Leakage							
PURCHASE	51	Vendor							
	52	Supplier							
	53	Purchase Order Number							

Notes :

1. Norms and documentation :
Dimensional drawing; Calculations; PED certification; ATEX Certificate; Material certificate acc. to EN10204 3.1; Certificate of calibration

2. Steaming conditions shall be taken into consideration (i.e. steaming temperature of 180 °C)

3. Planned replacement of the existing faulty flow meter. For the new device, the sensor installation length distance between the flange connections shall be 710 mm. (Pipeline drawing with dimensions, showing the location where the existing mass flow meter is installed.)

Data Sheet : Mass Flow Meter FT-614B
OLP01011-DP-AI-DS004

ORLEN Lietuva

Rev
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