STATOIL

AKER KVÆRNER

Gjøa Semi EPCH

03	13.07.10	Issued For Project Acceptance	TL	SS	JC
02	26.02.10	Issued For Project Acceptance	EK	RJL	MG
01	18.11.09	Issued For Project Acceptance	SMN	RJ	MG
Proj. Rev.	Issue Date	Reason For Issue	Made By	Chk'd By	Appr. By

Package No.:	Package Title:
ER277	Chemical Injection Package

Tag No.(s): 42FT4025, 42FIT4025

Supplier Logo	For Project Use Only					
NLI Engineering as PG	1	1B	2	3	4	5
	Date:			Sign.:		

Supplier Document No.:

PG 20070477-153

Project Code:	Are/Location:	System Code:
C097	P141	42

Gjøa Semi EPCH

Document Title (must be identical to entry on supplier document list)

Instrument data sheet for coriolis flow element and transmitter

Project Doc. No.:	C097-AON-J-DS-0047	Page: 1 of 3

MASS FLOWMETER

1.0 GENERAL		Note			Note
1.01 Type	Coriolismeter		1.02 Manufacturer	RHEONIK	
1.03 Operating Temp Limits	-20 °C / 120 °C		1.04 Operating Press Limit	300 bar	
1.05 Press loss at full range	2,7 bar	1	1.06 Mounting	Inline	
1.07 Weight	See note	2	1.08 Other		
2.0 INSTRUMENT CHARACTERISTICS					
2.01 Calibrated Range	0 kg/hr - 58,7 kg/hr		2.02 Characteristic	Linear	
2.03 Accuracy	<0,91 %		2.04 Linearity	Incl. In accuracy	
2.05 Repeatability	0,1% of rate		2.06 Min / Max range limits	0 kg/hr - 300 kg/hr	
2.07 Other	Eex ia IIC T6				
3.0 METER BODY		Note			Note
3.01 Nominal size	130 x 188mm		3.02 Manufacturer model no	See note	3
3.03 Process conn size/type	G 1/4"		3.04 Pressure rating	300 bar	
3.05 Face to face dimension	50 mm		3.06 Number of tube runs	2-Parallell	
3.07 Tube inner diameter	2,2 mm		3.08 Material, tube	1.4539 (904L)	
3.09 Material, flange/connect	SS316		3.10 Sour service spec	NA	
3.11 Material, tube cover	Stainless steel		3.12 Enclosure protection	IP65	
3.13 Protective coating/color			3.14 Other		
4.0 TRANSMITTER		Note			Note
4.01 Manufacturer model no	RHE11-T3-D1-IA-E		4.02 Mounting	See note	4
4.03 Max distance meter/trans	200 m		4.04 Cable connection	Terminals	
4.05 Cable entry	M25		4.06 Dimensjon	Dia-159mm / Height-225mm	
4.07 Material	SS316		4.08 Enclosure protection	IP65	
4.09 Ex classification	Eex de [ia] IIC T5		4.10 Protective coating	NA	
4.11 Indicator	Yes (LCD)		4.12 Output signal	See note	5
4.13 Communication	No		4.14 Supply voltage	24VDC	
4.15 Consumption	<15 watt		4.16 Load limitation	1000 ohm	
4.17 Other					

Notes:

Valid for Tagnos: Element 42FT4025, transmitter 42FIT4025

1. Pressure drop at rated pump flow.
2. Meter element 2 kg. Transmitter 7 kg.
3. Flow element model no.: RHM03-T1-P2-PMO-MO-G1-T2
4. Wall mounting meter element on bracket.
5. 2 of 4-20mA: 1 pulse, 1 digital

INLINE / FLOW INSTRUMENT

EQUIPMENT CONDITONS		Note
1.01 Line Nominal Size	0.63"	
1.02 Line Inner Diameter	12 mm	
1.03 Material Line	6 Mo	
1.04 Flange Standard Or Code	ISO 228 (BSP / G)	
1.05 Flange Size	1/4"	
1.06 Flange Pressure Class	N/A	
1.07 Flange Facing	N/A	
1.08 Design Temperature	-20 °C / 120 °C	
1.09 Design Pressure	300 bar	
1.10 Fluid	Chemicals	
1.11 Phase	Liquid	
1.12 Corrosive Compounds	CO2, O2	
1.13 Maximum Pressure Loss	2,7 bar	1

2 OPERATING CONDITIONS	*Minimum*	*Normal*	*Maximum*	Note
2.01 Flow rate	37,9 kg/hr	44,6 kg/hr	51,3 kg/hr	
2.02 Velocity	0,09 m/s	0,11 m/s	0,13 m/s	
2.03 Temperature	5 °C	20 °C	35 °C	
2.04 Inlet pressure	N/A	N/A	9,2 barg	
2.05 Density at T and P	1000 kg/m3	N/A	1000 kg/m3	
2.06 Viscosity at T	30 cp	N/A	65 cp	
2.07 Molecular Weight Vapour	N/A	N/A	N/A	
2.08 VapourCompressibilityFactor	N/A	N/A	N/A	
2.09 Vapour Specific Heat Ratio	N/A	N/A	N/A	

Notes:

Valid for Tagnos: 42FT4025

1. Pressure drop at rated pump flow with viscosity provided by Clariant, density by contractor at 5°C for Tros 559