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| 03 | 13.07.10 | Issued For Project Acceptance | TL | SS | JC | | |
| 02 | 02.03.10 | 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.: ER277 | | Package Title: Chemical Injection Package | | | | | |
| Tag No.(s): 42FT4000, 42FIT4000 | | | | | | | |
| Supplier Logo | | For Project Use Only | | | | | |
|   | | 1 | 1B | 2 | 3 | 4 | 5 |
| | | Date: 09.08.2010 | | Sign.: G.L | | | |
| Supplier Document No.: PG 20070477-149 | | | | | | | |
| Project Code: C097 | | Are/Location: P141 | | System Code: 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-0043 | | | | Page: 1 of 3 | | |

| MASS FLOWMETER | | | JDS-F05 Rev 2 Page 2 of 3 | | |
|--|----------------------|---|-----------------------------|-------------------------|------|
| 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 | 345 bar | |
| 1.05 Press loss at full range | 4,7 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 - 54,2 kg/hr | | 2.02 Characteristic | Linear | |
| 2.03 Accuracy | <0,72% | | 2.04 Linearity | Incl. In accuracy | |
| 2.05 Repeatability | 0,1% of rate | | 2.06 Min / Max range limits | 0 kg/hr - 150 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 | 345 bar | |
| 3.05 Face to face dimension | 50 mm | | 3.06 Number of tube runs | 2-Serial | |
| 3.07 Tube inner diameter | 1,8 mm | | 3.08 Material, tube | HP160 | |
| 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 | Ø: 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 42FT4000, transmitter 42FIT4000. 1. Pressure drop at rated pump flow. 2. Meter element 2 kg. Transmitter 7 kg. 3. Flow element 42FT4000 model no.: RHM03-T1-P3-SMO-M1-G1-T2 4. Wall mounting meter element on bracket. 5. 2 of 4-20mA: 1 pulse, 1 digital | | | | | |

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| | INLINE / FLOW INSTRUMENT | | PR4 Rev 2 Page 3 of 3 | | |
| EQUIPMENT CONDITONS | | | | | Note |
| 1.01 Line Nominal Size | 0.47" | | | | |
| 1.02 Line Inner Diameter | 8 mm | | | | |
| 1.03 Material Line | 6 Mo | | | | |
| 1.04 Flange Standard Or Code | ISO 228 (BSP / G) | | | | |
| 1.05 Flange Size | 1/4" G | | | | |
| 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 | 345 bar | | | | |
| 1.10 Fluid | Chemicals | | | | |
| 1.11 Phase | Liquid | | | | |
| 1.12 Corrosive Compounds | CO2, O2 | | | | |
| 1.13 Maximum Pressure Loss | 4,7 bar | | | 1 | |
| 2 OPERATING CONDITIONS | | | | | Note |
| | Minimum | Normal | Maximum | | |
| 2.01 Flow rate | 20,0 kg/hr | 24,2 kg/hr | 28,7 kg/hr | | |
| 2.02 Velocity | 0,10 m/s | 0,12 m/s | 0,13 m/s | | |
| 2.03 Temperature | 5 °C | 20 °C | 25 °C | | |
| 2.04 Inlet pressure | N/A | N/A | 263 barg | | |
| 2.05 Density at T and P | 1130 kg/m3 | N/A | 1200 kg/m3 | | |
| 2.06 Viscosity at T | 5 cp | N/A | 30 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: 42FT4000. | | | | | |
| 1. Pressure drop at rated pump flow with viscosity and density provided by Contractor at 5°C for Scaletreat 824. | | | | | |