

| PLANT Chlorine Caustic Soda Plant | | | |
|---|--|-------------------|------------|
| DESCRIPTION | Magnetic flow transmitter | Tag. | FT-010151 |
| SERVICE | Feed brine to electrolyzer | Q.ty: | 1 |
| LOCATION | 50 - CW89 | P&ID N° | 1-AM-1001 |
| OPERATING CONDITION | | | |
| FLUID | Pure brine | | |
| FLOW | 5.4 | m ³ /h | |
| PRESSURE | 1.2 | bar | |
| DESIGN PRESSURE | 2.5 | bar | |
| TEMPERATURE | 60 | °C | max. 80 |
| DENSITY | 1177 | Kg/m ³ | |
| CONDUCTIVITY | 0.44 | S/cm | |
| INSTRUMENT | | | |
| TYPE | Magnetic flow transmitter with remote amplifier | | |
| CONSTRUCTION | IP67 / IEC 529 | | |
| CERTIFICATE | General purpose | | |
| HOUSING | Steel epoxy coating | | |
| ACCURACY | +/- 0.5% of the range | | |
| RANGE | Std. Manufacturer | | |
| SIZE | 40 mm | | |
| TUBE MATERIAL | AISI 304 PFA lined | | |
| ELECTRODES MATERIAL | Titanium | | |
| CONNECTION TYPE/RATING | Flanged DIN DN 40 PN 16 | | |
| ELECTRICAL CONNECTION | 1/2" NPT-F | | |
| POWER SUPPLY | From amplifier | | |
| OUTPUT SIGNAL | To amplifier | | |
| EARTHING RING | Two titanium rings (supplied separately by UHDN) | | |
| SPECIAL CABLE | Length 5 mt. | | |
| REMOTE AMPLIFIER | | | |
| TYPE | Microprocessor | Mod. | IFC 080 KD |
| CONSTRUCTION | IP-67 / IEC 529 | | |
| CERTIFICATE | General purpose | | |
| POWER SUPPLY | 220 V 50 Hz | | |
| OUTPUT SIGNALS | 4+20 mA / pulses | | |
| INDICATION | LCD display | | |
| CALIBRATION | 0+8 | m ³ /h | |
| REMARKS | | | |
| Label made by st.st. AISI 316 with the Tag. to be fixed in visible position | | | |
| MANUFACTURER | KROHNE | | |
| MODEL | ALTOFLUX IFM 4080 KD | | |

PLANT Chlorine Caustic Soda Plant

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|-------------|--------------------------------|---------|-----------|
| DESCRIPTION | Magnetic flow transmitter | Tag. | FT-010152 |
| SERVICE | Feed catholyte to electrolyzer | Q.ty: | 1 |
| LOCATION | 50 - CW41 | P&ID N° | 1-AM-1001 |

OPERATING CONDITION

| | |
|-----------------|------------------------|
| FLUID | Caustic soda 31% |
| FLOW | 5.3 m ³ /h |
| PRESSURE | 1.3 bar |
| DESIGN PRESSURE | 3.0 bar |
| TEMPERATURE | 85 °C max. 90 |
| DENSITY | 1296 Kg/m ³ |
| CONDUCTIVITY | 1.15 S/cm |

INSTRUMENT

| | |
|------------------------|---|
| TYPE | Magnetic flow transmitter with remote amplifier |
| CONSTRUCTION | IP67 / IEC 529 |
| CERTIFICATE | General purpose |
| HOUSING | Steel epoxy coating |
| ACCURACY | +/- 0.5% of the range |
| RANGE | Std. Manufacturer |
| SIZE | 40 mm |
| TUBE MATERIAL | AISI 304 PFA lined |
| ELECTRODES MATERIAL | Platinum |
| CONNECTION TYPE/RATING | Flanged DIN DN 40 PN 16 |
| ELECTRICAL CONNECTION | 1/2" NPT-F |
| POWER SUPPLY | From amplifier |
| OUTPUT SIGNAL | To amplifier |
| EARTHING RING | Two nickel rings (supplied separately by UHDN) |
| SPECIAL CABLE | Length 5 mt. |

REMOTE AMPLIFIER

| | | |
|----------------|-----------------------|-----------------|
| TYPE | Microprocessor | Mod. IFC 080 KD |
| CONSTRUCTION | IP-67 / IEC 529 | |
| CERTIFICATE | General purpose | |
| POWER SUPPLY | 220 V 50 Hz | |
| OUTPUT SIGNALS | 4*20 mA / pulses | |
| INDICATION | LCD display | |
| CALIBRATION | 0*8 m ³ /h | |

REMARKS

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

| | |
|--------------|----------------------|
| MANUFACTURER | KROHNE |
| MODEL | ALTOFLUX IFM 4080 KD |



**INSTRUMENT
DATA SHEET
FLOW TRANSMITTER**

| | |
|---------------|----------------|
| PROJECT: | 750 NEI |
| SPC. No. | 750-FB-3025 |
| DATE AUG.2016 | Sh. 3 of 13 |

PLANT Chlorine Caustic Soda Plant

| | | | |
|-------------|---------------------------|---------|---------------|
| DESCRIPTION | Magnetic flow transmitter | P&ID N° | 1-AM-1001/750 |
| SERVICE | HCl feed to electrolyzers | Tag. | FT-0101569 |
| LOCATION | Line: 25-CW51-12272 | Q.ty | 1 |

OPERATING CONDITION

| | | | |
|-----------------|--------------------------|-------------------|----------------|
| FLUID | Hydrochloric acid 18% wt | | |
| FLOW | 0 lit/h (min.) | 385 lit/h (op.) | 770 L/h (max.) |
| PRESSURE | 2.5 bar g. (up) | 3.0 bar g. (max.) | |
| DESIGN PRESSURE | bar g. | | |
| TEMPERATURE | 30 °C (op.) | | |
| DENSITY | 1083 Kg/m ³ | | |
| CONDUCTIVITY | 0,75 S/cm | | |
| VISCOSITY | 1,2 cP | | |

INSTRUMENT

| | |
|------------------------|---|
| TYPE | Magnetic flow transmitter with remote converter |
| CONSTRUCTION | IP67 |
| CERTIFICATE | General purpose |
| HOUSING | St.steel epoxy painted |
| ACCURACY | +/- 0.3% of the range |
| CALIBRATION | 0-1000 L/h |
| SIZE | std. manuf. |
| TUBE MATERIAL | st. st. PFA lined |
| ELECTRODES MATERIAL | Tantalum |
| CONNECTION TYPE/RATING | flange , DIN PN10 |
| ELECTRICAL CONNECTION | M20 X 1.5 |
| POWER SUPPLY | From converter |
| OUTPUT SIGNAL | To converter |
| EARTHING RING | Two tantalum rings |
| SPECIAL CABLE | Required 5mt . |

REMOTE AMPLIFIER

| | |
|----------------|-------------------------------|
| TYPE | Microprocessor |
| CONSTRUCTION | IP67 |
| CERTIFICATE | General purpose |
| POWER SUPPLY | 220V 50 Hz |
| OUTPUT SIGNALS | 4÷20 mA Smart / Hart protocol |
| INDICATION | LCD display |
| CALIBRATION | 0-1000 L/h |
| BRACKET | required st.st. |

REMARKS

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

| | |
|--------------|----------------------|
| MANUFACTURER | KOBOLD |
| MODEL | DMH1-A15-T-5-5-C-2-0 |

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|------|-----------------|---------|----------|----------|
| 1 | Issue for order | M.MEHD. | M.KHOD. | AUG.2016 |
| Rev. | Description | Drawn. | Checked. | Date |

PLANT Chlorine Caustic Soda Plant

| | | | |
|-------------|---------------------------|---------|-----------|
| DESCRIPTION | Magnetic flow transmitter | P&ID N° | 1-AM-2001 |
| SERVICE | HCl feed to electrolyzers | Tag. | FT-012169 |
| LOCATION | Line: 25-CW51-11128 | Q.ty | 1 |

OPERATING CONDITION

| | | | |
|-----------------|--------------------------|--------------|----------------|
| FLUID | Hydrochloric acid 18% wt | | |
| FLOW | L/h (min.) | 75 L/h (op.) | 160 L/h (max.) |
| PRESSURE | 1,85 bar g. | | |
| DESIGN PRESSURE | | | |
| TEMPERATURE | 30 °C (op.) | | |
| DENSITY | 1083 Kg/m ³ | | |
| CONDUCTIVITY | 0,75 S/cm | | |
| VISCOSITY | 1,2 cP | | |

INSTRUMENT

| | | | |
|------------------------|---|--|--|
| TYPE | Magnetic flow transmitter with remote converter | | |
| CONSTRUCTION | IP67 | | |
| CERTIFICATE | General purpose | | |
| HOUSING | St. steel | | |
| ACCURACY | +/- 0.3% of the range | | |
| CALIBRATION | 0+200 L/h | | |
| SIZE | 6 mm | | |
| TUBE MATERIAL | Ceramic (AL ₂ O ₃ 99,7%) | | |
| ELECTRODES MATERIAL | Platinum (Cermet Technology) | | |
| CONNECTION TYPE/RATING | Wafer DIN DN 15 PN 10 | | |
| ELECTRICAL CONNECTION | 1/2" NPT-F | | |
| POWER SUPPLY | From converter | | |
| OUTPUT SIGNAL | To converter | | |
| EARTHING RING | Two tantalum rings (supplied with the instrument) | | |
| SPECIAL CABLE | Required 5 mt. | | |

REMOTE AMPLIFIER

| | | |
|----------------|-------------------------------|--------------|
| TYPE | Microprocessor | mod. IFC300F |
| CONSTRUCTION | IP67 | |
| CERTIFICATE | General purpose | |
| POWER SUPPLY | 220V 50 Hz | |
| OUTPUT SIGNALS | 4+20 mA Smart / Hart protocol | |
| INDICATION | LCD display | |
| CALIBRATION | 0+200 L/h | |
| BRACKET | Required st.st. | |

REMARKS

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position
 MAX dp: 0,2 bar

| | | | |
|--------------|--------------------------|--|--|
| MANUFACTURER | KROHNE | | |
| MODEL | OPTIFLUX 5000 / IFC0300F | | |

| | | | | |
|------|-----------------|----------|----------|--------|
| 1 | Issue for order | V. Senni | E.Conti | May 06 |
| Rev. | Description | Drawn. | Checked. | Date |



**INSTRUMENT
DATA SHEET
FLOW TRANSMITTER**

| | |
|---------------|----------------|
| PROJECT: | 750 NEI |
| SPC. No. | 750-FB-3025 |
| DATE AUG.2016 | Sh. 5 of 16 |

PLANT Chlorine Caustic Soda Plant

| | | | |
|-------------|--|---------|---------------|
| DESCRIPTION | flowmeter | P&ID N° | 2-AM-1001/750 |
| SERVICE | demi water to catholite dilution to electrolyzer | Tag. | FT-0201562 |
| LOCATION | Line: 40-cw19-12004 | Q.ty | 1 |

OPERATING CONDITION

| | | | |
|-----------------|-----------------------------|------------------------------|--|
| FLUID | Demi water | | |
| FLOW | 3.5 m ³ /h (op.) | 4.6 m ³ /h (max.) | |
| PRESSURE | 4.8 barg | | |
| TEMPERATURE | 30 °C | | |
| DENSITY | 996 kg/m ³ | | |
| VISCOSITY | 0.81 cp | | |
| DESIGN PRESSURE | 10 barg | | |

INSTRUMENT

| | | | |
|---------------------------|-----------------------------|--|--|
| TYPE | vortex flow transmitter | | |
| LOCAL INDICATOR/SCALE | requested / flow units | | |
| ACCURACY | +/- 1.6 % of the range | | |
| RANGE | 0.1 ~ 5.0 m ³ /h | | |
| SIZE | std.manuf. | | |
| CONNECTION TYPE/RATING | flange , DIN PN10 | | |
| WETTED PARTS | st. st. 316L | | |
| BODY MATERIAL | st. st. 316L | | |
| HOUSING MATERIAL | Zinc die cast epoxy painted | | |
| PROTECTION | IP65 | | |
| LABEL AND SCREWS MATERIAL | AISI 316 st.st. | | |

ACCESSORIES

| | | | |
|------------------------|------------------------|--|--|
| LIMIT SWITCH | not requested | | |
| ELECTRONIC TRANSMITTER | requested | | |
| SIGNAL | 4~20 mA 2-wires system | | |
| POWER SUPPLY | 24 V dc | | |
| ELECTRICAL CONNECTION | 1/2" NPT | | |

REMARKS

| | | | |
|--------------|-------------------------|--|--|
| MANUFACTURER | KOBOLD | | |
| MODEL | DVH-V-15-5-S-L-L-2-S-0H | | |

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|------|-----------------|---------|----------|----------|
| 1 | Issue for order | M.MEHD. | M.KHOD. | AUG.2016 |
| Rev. | Description | Drawn. | Checked. | Date |



**INSTRUMENT
DATA SHEET
FLOW TRANSMITTER**

| | |
|---------------|----------------|
| PROJECT: | 750 NEI |
| SPC. No. | 750-FB-3025 |
| DATE JUNE2015 | Sh. 7 of 16 |

PLANT Chlorine Caustic Soda Plant

| | | | |
|-------------|--|---------|---------------|
| DESCRIPTION | Magnetic flow transmitter | P&ID N° | 2-AM-1001/750 |
| SERVICE | Caustic soda to evaporation unit or storage tank | Tag. | FT-0201570 |
| LOCATION | Line: 50-CS41-12019-HC | Q.ty | 1 |

OPERATING CONDITION

| | | | |
|-----------------|------------------|-----------|---------------|
| FLUID | 33% Caustic soda | | |
| PRESSURE | 4.6 | bar g | |
| TEMPERATURE | 88 | °C | |
| DENSITY | 1314 | °C | kg/m3 |
| VISCOSITY | 2.03 | cps | |
| FLOW | 7.1 | m3/h(op.) | 12 m3/h(max.) |
| LINE I.D/E.D | | | |
| DESIGN PRESSURE | 10 | bar g | |

INSTRUMENT

| | | | |
|------------------------|---|-------------------|--|
| TYPE | Magnetic flow transmitter with remote converter | | |
| CONSTRUCTION | IP67 | | |
| CERTIFICATE | General purpose | | |
| HOUSING | Steel epoxy coating | | |
| ACCURACY | +/- 0.3% of the range | | |
| CALIBRATION | 0 ~ 12 | m ³ /h | |
| SIZE | std. mfr. | | |
| TUBE MATERIAL | St.st. PFA lined | | |
| ELECTRODES MATERIAL | Hastelloy | | |
| CONNECTION TYPE/RATING | DIN PN10 | | |
| ELECTRICAL CONNECTION | M20x1.5 | | |
| POWER SUPPLY | From converter | | |
| OUTPUT SIGNAL | To converter | | |
| EARTHING RING | Two nickel rings | | |
| SPECIAL CABLE | Required 5 mt. | | |

REMOTE CONVERTER

| | | | |
|----------------|-------------------------------|-------------------|--|
| TYPE | Microprocessor | | |
| CONSTRUCTION | IP67 | | |
| CERTIFICATE | General purpose | | |
| POWER SUPPLY | 220V 50 Hz | | |
| OUTPUT SIGNALS | 4÷20 mA Smart / Hart protocol | | |
| INDICATION | LCD display | | |
| CALIBRATION | 0÷12 | m ³ /h | |
| BRACKET | None | | |

REMARKS

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

| | | | |
|--------------|----------------------|--|--|
| MANUFACTURER | KOBOLD | | |
| MODEL | DMH1-A50-T-3-3-C-2-0 | | |

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|------|-----------------|---------|----------|----------|
| 0 | Issue for order | M.MEHD. | M.KHOD. | JUNE2015 |
| Rev. | Description | Drawn. | Checked. | Date |



**INSTRUMENT
DATA SHEET
FLOW TRANSMITTER**

| | |
|---------------|----------------|
| PROJECT: | 750 NEI |
| SPC. No. | 750-FB-3025 |
| DATE AUG.2016 | Sh. 9 of 16 |

PLANT Chlorine Caustic Soda Plant

| | | | |
|-------------|---------------------------|---------|---------------|
| DESCRIPTION | Magnetic flow transmitter | P&ID N° | 5-AM-1001/750 |
| SERVICE | 33% HCL feed to DM505N | Tag. | FT-0502503 |
| LOCATION | Line: 25-CW51-12035 | Q.ty | 1 |

OPERATING CONDITION

| | | | |
|-----------------|-----------------------|------------------|--|
| FLUID | Hydrochloric acid 33% | | |
| FLOW | 244 lit/h(op.) | 1200 lit/h(max.) | |
| PRESSURE | 3 bar g | | |
| TEMPERATURE | 25 °C (op.) | | |
| DENSITY | 1163 kg/m3 | | |
| VISCOSITY | 1.68 cps | | |
| DESIGN PRESSURE | 10 bar g | | |

INSTRUMENT

| | | | |
|------------------------|---|--|--|
| TYPE | Magnetic flow transmitter with remote converter | | |
| CONSTRUCTION | IP67 | | |
| CERTIFICATE | General purpose | | |
| HOUSING | st. steel | | |
| ACCURACY | +/- 0.3% of the range | | |
| CALIBRATION | 0-1200 lit/h | | |
| SIZE | std. mfr. | | |
| TUBE MATERIAL | ceramic (AL2O3 -99.7%) | | |
| ELECTRODES MATERIAL | Platinum (cermet technology) | | |
| CONNECTION TYPE/RATING | flange , DIN PN10 | | |
| ELECTRICAL CONNECTION | M20 X 1.5 | | |
| POWER SUPPLY | From converter | | |
| OUTPUT SIGNAL | To converter | | |
| EARTHING RING | Two tantalum rings | | |
| SPECIAL CABLE | Required 5 mt. | | |

REMOTE CONVERTER

| | | | |
|----------------|-------------------------------|--|--|
| TYPE | Microprocessor | | |
| CONSTRUCTION | IP67 | | |
| CERTIFICATE | General purpose | | |
| POWER SUPPLY | 220V 50 Hz | | |
| OUTPUT SIGNALS | 4*20 mA Smart / Hart protocol | | |
| INDICATION | LCD display | | |
| CALIBRATION | 0-1200 lit/h | | |
| BRACKET | required st.st. | | |

REMARKS

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

| | | | |
|--------------|----------------------|--|--|
| MANUFACTURER | KOBOLD | | |
| MODEL | DMH1-A15-T-5-5-C-2-0 | | |

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|------|-----------------|---------|----------|----------|
| 0 | Issue for order | M.MEHD. | M.KHOD. | AUG.2016 |
| Rev. | Description | Drawn. | Checked. | Date |



**INSTRUMENT
DATA SHEET
FLOW TRANSMITTER**

| | |
|---------------|----------------|
| PROJECT: | 750 NEI |
| SPC. No. | 750-FB-3025 |
| DATE SEP.2016 | Sh. 4 of 16 |

| | | | | |
|---|---|----------------------------|-------------------------------|----------|
| PLANT | Chlorine Caustic Soda Plant | | | |
| | P&ID N° | 5-AM-1006/730 | | |
| DESCRIPTION | Magnetic flow transmitter | P&ID N° | 5-AM-1003,5-AM-1005/750 | |
| SERVICE | | Tag. | FT-0503506,FT-0505533 | |
| LOCATION | ON LINE | Tag. | FT-050603N,FT-0505534 | |
| Line:100-CR82-12094 , 100-CR82-231 | | Tag. | FT-0503510 | |
| 250-CR82-12088 ,100-CR82-12083 | | Q.ty | 5 | |
| OPERATING CONDITION | | | | |
| FLUID | Saturated brine | | | |
| FLOW | 0 m ³ /h (min.) | 70 m ³ /h (op.) | 80 m ³ /h (design) | |
| PRESSURE | 6 bar g. | | | |
| DESIGN PRESSURE | 10 bar g. | | | |
| TEMPERATURE | 70 °C (op.) | 80 °C (max.) | | |
| DENSITY | 1180 Kg/m ³ | | | |
| CONDUCTIVITY | S/cm | | | |
| VISCOSITY | 0.84 cP | | | |
| INSTRUMENT | | | | |
| TYPE | Magnetic flow transmitter with remote converter | | | |
| CONSTRUCTION | IP67 | | | |
| CERTIFICATE | General purpose | | | |
| HOUSING | Steel epoxy coating | | | |
| ACCURACY | +/- 0.3% of the range | | | |
| CALIBRATION | 0÷80 m ³ /h | | | |
| SIZE | std. mfr. | | | |
| TUBE MATERIAL | St.st. PFA lined | | | |
| ELECTRODES MATERIAL | Tantalum | | | |
| CONNECTION TYPE/RATING | DIN PN10 | | | |
| ELECTRICAL CONNECTION | M20x1.5 | | | |
| POWER SUPPLY | From converter | | | |
| OUTPUT SIGNAL | To converter | | | |
| EARTHING RING | Two tantalum rings | | | |
| SPECIAL CABLE | Required 5 mt. | | | |
| REMOTE CONVERTER | | | | |
| TYPE | Microprocessor | | | |
| CONSTRUCTION | IP67 | | | |
| CERTIFICATE | General purpose | | | |
| POWER SUPPLY | 220V 50 Hz | | | |
| OUTPUT SIGNALS | 4÷20 mA Smart / Hart protocol | | | |
| INDICATION | LCD display | | | |
| CALIBRATION | 0÷80 m ³ /h | | | |
| BRACKET | None | | | |
| REMARKS | | | | |
| Label made by st.st. AISI 316 with the Tag. to be fixed in visible position | | | | |
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| | | | | |
| MANUFACTURER | KOBOLD | | | |
| MODEL | DMH1-C1H-T-5-5-C-2-0 | | | |
| 0 | Issue for order | M.MEHD. | M.KHOD. | SEP.2016 |
| Rev. | Description | Drawn. | Checked. | Date |



**INSTRUMENT
DATA SHEET
FLOW TRANSMITTER**

| | |
|---------------|----------------|
| PROJECT: | 750 NEI |
| SPC. No. | 750-FB-3025 |
| DATE AUG.2016 | Sh. 8 of 16 |

PLANT Chlorine Caustic Soda Plant

| | | | |
|-------------|---------------------------|---------|---------------|
| DESCRIPTION | Magnetic flow transmitter | P&ID N° | 5-AM-1003/750 |
| SERVICE | 8% Na2Co3 to R501N A/B | Tag. | FT-0503507 |
| LOCATION | Line: 25-CR44-12286 | Q.ty | 1 |

OPERATING CONDITION

| | | | |
|-----------------|-----------------|------------------|--|
| FLUID | 8% Na2Co3 | | |
| FLOW | 1000 lit/h(op.) | 2300 lit/h(max.) | |
| PRESSURE | 3 bar g | | |
| TEMPERATURE | 30 °C | | |
| DENSITY | 1123 | kg/m3 | |
| VISCOSITY | 1.21 cps | | |
| DESIGN PRESSURE | 10 bar g | | |

INSTRUMENT

| | | | |
|------------------------|---|--|--|
| TYPE | Magnetic flow transmitter with remote converter | | |
| CONSTRUCTION | IP67 | | |
| CERTIFICATE | General purpose | | |
| HOUSING | Steel epoxy coating | | |
| ACCURACY | +/- 0.3% of the range | | |
| CALIBRATION | 0-2500 lit/h | | |
| SIZE | std. mfr. | | |
| TUBE MATERIAL | St.st. PFA lined | | |
| ELECTRODES MATERIAL | st. st. 316L | | |
| CONNECTION TYPE/RATING | flange , DIN PN10 | | |
| ELECTRICAL CONNECTION | M20 X 1.5 | | |
| POWER SUPPLY | From converter | | |
| OUTPUT SIGNAL | To converter | | |
| EARTHING RING | Two st.st. 316 rings | | |
| SPECIAL CABLE | Required 5 mt. | | |

REMOTE CONVERTER

| | | | |
|----------------|-------------------------------|--|--|
| TYPE | Microprocessor | | |
| CONSTRUCTION | IP67 | | |
| CERTIFICATE | General purpose | | |
| POWER SUPPLY | 220V 50 Hz | | |
| OUTPUT SIGNALS | 4+20 mA Smart / Hart protocol | | |
| INDICATION | LCD display | | |
| CALIBRATION | 0-2500 lit/h | | |
| BRACKET | required st.st. | | |

REMARKS

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

| | | | |
|--------------|----------------------|--|--|
| MANUFACTURER | KOBOLD | | |
| MODEL | DMH1-A20-T-3-3-C-2-0 | | |

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|------|-----------------|---------|----------|----------|
| 0 | Issue for order | M.MEHD. | M.KHOD. | AUG.2016 |
| Rev. | Description | Drawn. | Checked. | Date |



**INSTRUMENT
DATA SHEET
FLOW TRANSMITTER**

PROJECT: **750 NEI**
SPC. No. **750-FB-3025**
DATE AUG.2016 Sh. 11 of 16

PLANT Chlorine Caustic Soda Plant

| | | | |
|-------------|---------------------------------|---------|---------------|
| DESCRIPTION | Magnetic flow transmitter | P&ID N° | 5-AM-1003/750 |
| SERVICE | 25% NaOH from ring to R501N A/B | Tag. | FT-0503508 |
| LOCATION | Line: 25-CS41-12295-HC | Q.ty | 1 |

OPERATING CONDITION

| | | | |
|-----------------|---------------|-----|-------------|
| FLUID | 25% NaOH | | |
| FLOW | 55 lit/h(op.) | 200 | lit/h(max.) |
| PRESSURE | 3.5 bar g | | |
| TEMPERATURE | 30 °C (op.) | 30 | °C (max.) |
| DENSITY | 1271 kg/m3 | | |
| VISCOSITY | 6.3 cps | | |
| DESIGN PRESSURE | 10 bar g | | |

INSTRUMENT

| | |
|------------------------|---|
| TYPE | Magnetic flow transmitter with remote converter |
| CONSTRUCTION | IP67 |
| CERTIFICATE | General purpose |
| HOUSING | st. steel |
| ACCURACY | +/- 0.3% of the range |
| CALIBRATION | 0~250 lit/h |
| SIZE | std. mfr. |
| TUBE MATERIAL | st.st.PFA lined |
| ELECTRODES MATERIAL | hastelloy c |
| CONNECTION TYPE/RATING | flange , DIN PN10 |
| ELECTRICAL CONNECTION | M20 X 1.5 |
| POWER SUPPLY | From converter |
| OUTPUT SIGNAL | To converter |
| EARTHING RING | Two nickel rings |
| SPECIAL CABLE | Required 5 mt. |

REMOTE CONVERTER

| | |
|----------------|-------------------------------|
| TYPE | Microprocessor |
| CONSTRUCTION | IP67 |
| CERTIFICATE | General purpose |
| POWER SUPPLY | 220V 50 Hz |
| OUTPUT SIGNALS | 4÷20 mA Smart / Hart protocol |
| INDICATION | LCD display |
| CALIBRATION | 0~250 lit/h |
| BRACKET | required st.st. |

REMARKS

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

| | |
|--------------|----------------------|
| MANUFACTURER | KOBOLD |
| MODEL | DMH2-A08-T-3-3-C-2-0 |

| | | | | |
|------|-----------------|---------|----------|----------|
| 0 | Issue for order | M.MEHD. | M.KHOD. | AUG.2016 |
| Rev. | Description | Drawn. | Checked. | Date |

| | | | | |
|--|---|-------------------------|--------|-------|
| | INSTRUMENT DATA SHEET FLOW TRANSMITTER | PROJECT: 750 NEI | | |
| | | SPC. No. | | |
| | | DATE Jun. 2019 | Sh. 14 | of 16 |

PLANT Chlorine Caustic Soda Plant

| | | | |
|-------------|---|---------|-----------|
| DESCRIPTION | Vortex Flow Transmitter | Tag. | FT-051016 |
| SERVICE | Demiwater for diluting acid and caustic | Q.ty: | 1 |
| LOCATION | 50 -CW19-1008-HC | P&ID N° | 5-AM-1010 |

| OPERATING CONDITION | | Units |
|---------------------|-----------------------------|-------------------|
| FLUID | Demiwater | |
| FLOW | min.: 5 m3/h, max.: 11 m3/h | |
| PRESSURE | 5 | bar g |
| DESIGN PRESSURE | 6 | bar g |
| TEMPERATURE | 25 | °C |
| DENSITY | 995 | Kg/m ³ |
| VISCOSITY | 0.89 | cps |
| | | |
| | | |
| | | |

| INSTRUMENT | |
|------------------------|--|
| TYPE | Vortex flow transmitter |
| CONSTRUCTION | IP66/ IEC529 |
| CERTIFICATE | General purpose |
| ACCURACY | +/- 0.5% of the range |
| CALIBRATION | 0 ~ 15 m3/h |
| SIZE | std. manuf. |
| BODY MATERIAL | St. st. AISI 316 |
| WETTED PARTS MATERIAL | St. st. AISI 317 |
| CONNECTION TYPE/RATING | DIN PN10 |
| ELECTRICAL CONNECTION | 1/2" NPT-F |
| POWER SUPPLY | 24 Vdc |
| OUTPUT SIGNAL | 4÷20 mA DC, 2-wire system/ HART protocol |
| | |
| | |
| | |
| | |

| ACCESSORIES | |
|------------------|------------------------|
| LOCAL INDICATOR | LCD type |
| INDICATION RANGE | 0÷15 m ³ /h |
| | |
| | |

REMARKS
Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

MANUFACTURER
MODEL

| | | | | |
|------|-----------------|----------|----------|-----------|
| 1 | Issue for order | M.MORADI | O.KARIMI | Jun. 2019 |
| Rev. | Description | Drawn. | Checked. | Date |



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| | | | | | |
|---|---|--|-----------|-------------------------|----|
| | | INSTRUMENT DATA SHEET TRANSMITTERS | | PROJECT: 750 NEI | |
| | | | | SPC. No. | |
| | | DATE Jun. 2019 | Sh. | 16 | of |
| PLANT | | Chlorine Caustic Soda Plant | | | |
| DESCRIPTION | Smart Flow Transmitter | Tag. | FT-051018 | | |
| SERVICE | Caustic Soda 24%wt | Q.ty: | 1 | | |
| LOCATION | LINE - 25 - CS41-117 | P&ID N° | 5-AM-1010 | | |
| OPERATING CONDITION | | | | | |
| FLUID | Caustic Soda 24% wt | | | | |
| FLOW | min.: 0.9 m3/h, max.: 1.8 m3/h | | | | |
| PRESSURE | 2 | barg | | | |
| TEMPERATURE | 30 | °C | | | |
| DENSITY | 1257 | Kg/m ³ | | | |
| VISCOSITY | 7 | cps | | | |
| INSTRUMENT | | | | | |
| TYPE | Magnetic flow transmitter with remote converter | | | | |
| CONSTRUCTION | IP67 | | | | |
| CERTIFICATE | General purpose | | | | |
| HOUSING | Steel epoxy coating | | | | |
| ACCURACY | +/- 0.3% of the range | | | | |
| CALIBRATION | 0 - 2000 L/h | | | | |
| SIZE | std. mfr. | | | | |
| TUBE MATERIAL | St.st. PFA lined | | | | |
| ELECTRODES MATERIAL | Hastelloy | | | | |
| CONNECTION TYPE/RATING | DIN PN10 | | | | |
| ELECTRICAL CONNECTION | M20x1.5 | | | | |
| POWER SUPPLY | From converter | | | | |
| OUTPUT SIGNAL | To converter | | | | |
| EARTHING RING | Two nickel rings | | | | |
| SPECIAL CABLE | Required 5 mt. | | | | |
| REMOTE CONVERTER | | | | | |
| TYPE | Microprocessor | | | | |
| CONSTRUCTION | IP67 | | | | |
| CERTIFICATE | General purpose | | | | |
| POWER SUPPLY | 220V 50 Hz | | | | |
| OUTPUT SIGNALS | 4+20 mA Smart / Hart protocol | | | | |
| INDICATION | LCD display | | | | |
| CALIBRATION | 0+2000 L/h | | | | |
| BRACKET | None | | | | |
| REMARKS | | | | | |
| Label made by st.st. AISI 316 with the Tag. to be fixed in visible position | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| MANUFACTURER | | | | | |
| MODEL | | | | | |
| | | | | | |
| 0 | Issue for order | M.MORADI | O.KARIMI | Jun. 2019 | |
| Rev. | Description | Drawn. | Checked. | Date | |



**INSTRUMENT
DATA SHEET
FLOW TRANSMITTER**

| | |
|---------------|----------------|
| PROJECT: | 750 NEI |
| SPC. No. | 750-FB-3025 |
| DATE JUNE2015 | Sh. 6 of 16 |

PLANT Chlorine Caustic Soda Plant

| | | | |
|-------------|---------------------------------------|---------|---------------|
| DESCRIPTION | Magnetic flow transmitter | Tag. | FT-0602558 |
| SERVICE | Sulphuric acid to drying column C614N | Q.ty: | 1 |
| LOCATION | 100 - CA53-12163 | P&ID N° | 6-AM-1002/750 |

OPERATING CONDITION

| | | | |
|-----------------|----------------------------|-------------------------------|--|
| FLUID | Sulphuric acid 78% | | |
| FLOW | 69 m ³ /h (op.) | 80 m ³ /h (design) | |
| PRESSURE | 4.5 bar | | |
| DESIGN PRESSURE | 6 bar | | |
| TEMPERATURE | 30 °C | | |
| DENSITY | 1705 Kg/m ³ | | |
| CONDUCTIVITY | S/cm | | |
| VISCOSITY | 18.5 cP | | |

INSTRUMENT

| | | | |
|------------------------|---|--|--|
| TYPE | Magnetic flow transmitter with remote converter | | |
| CONSTRUCTION | IP67 | | |
| CERTIFICATE | General purpose | | |
| HOUSING | Steel epoxy coating | | |
| ACCURACY | +/- 0.3% of the range | | |
| CALIBRATION | 0 ~ 80 m ³ /h | | |
| SIZE | std. manuf. | | |
| TUBE MATERIAL | AISI 304 PFA lined | | |
| ELECTRODES MATERIAL | tantalum | | |
| CONNECTION TYPE/RATING | DIN PN10 | | |
| ELECTRICAL CONNECTION | M20x1.5 | | |
| POWER SUPPLY | From converter | | |
| OUTPUT SIGNAL | To converter | | |
| EARTHING RING | Two tantalum rings | | |
| SPECIAL CABLE | Required 5 mt. | | |

REMOTE CONVERTER

| | | | |
|----------------|-------------------------------|--|--|
| TYPE | Microprocessor | | |
| CONSTRUCTION | IP67 | | |
| CERTIFICATE | General purpose | | |
| POWER SUPPLY | 220V 50 Hz | | |
| OUTPUT SIGNALS | 4÷20 mA Smart / Hart protocol | | |
| INDICATION | LCD display | | |
| CALIBRATION | 0÷80 m ³ /h | | |
| BRACKET | None | | |

REMARKS

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

| | | | |
|--------------|----------------------|--|--|
| MANUFACTURER | KOBOLD | | |
| MODEL | DMH1-C1H-T-5-5-C-2-0 | | |

| | | | | |
|------|-----------------|---------|----------|----------|
| 0 | Issue for order | M.MEHD. | M.KHOD. | JUNE2015 |
| Rev. | Description | Drawn. | Checked. | Date |



**INSTRUMENT
DATA SHEET
FLOW TRANSMITTER**

PROJECT:
SPC. No.
DATE DEC.2015 Sh. of

PLANT Chlorine Caustic Soda Plant

| | | | |
|-------------|---------------------------|---------|-----------|
| DESCRIPTION | Magnetic flow transmitter | P&ID N° | |
| SERVICE | Sulphuric acid | Tag. | FT-070218 |
| LOCATION | Line: | Q.ty | 1 |

OPERATING CONDITION

| | | | |
|-----------------|-------------------|-------------------|----------------|
| FLUID | pure chlorine gas | | |
| FLOW | 500 kg/h | m3/h (min) | max. 3000 kg/h |
| PRESSURE | 3 | bar g. | |
| DESIGN PRESSURE | 10 | bar g. | |
| TEMPERATURE | 40 | °C (op.) | |
| DENSITY | 1.468 | Kg/m ³ | |

INSTRUMENT

| | | | |
|--------------|-----------------------|-----|--|
| TYPE | vortex | | |
| CONSTRUCTION | IP67 | | |
| CERTIFICATE | General purpose | | |
| HOUSING | Steel epoxy coating | | |
| ACCURACY | +/- 0.3% of the range | | |
| CALIBRATION | 0-3000 | k/h | |
| SIZE | DN 40 | | |

| | | | |
|-----------------------|-------------------------------|--|--|
| ELECTRICAL CONNECTION | M20x1.5 | | |
| POWER SUPPLY | 24 vdc | | |
| OUTPUT SIGNALS | 4-20 mA Smart / Hart protocol | | |

REMARKS

MANUFACTURER :
MODEL :

| | | | | |
|------|-----------------|-----------|----------|----------|
| 0 | Issue for order | A.HASHEMI | M.Afshar | may.2020 |
| Rev. | Description | Drawn. | Checked. | Date |



**INSTRUMENT
DATA SHEET
FLOW TRANSMITTER**

| | |
|---------------|----------------|
| PROJECT: | 750 NEI |
| SPC. No. | 750-FB-3025 |
| DATE AUG.2016 | Sh. 12 of 16 |

PLANT Chlorine Caustic Soda Plant

| | | | |
|-------------|------------------------------|---------|---------------|
| DESCRIPTION | Magnetic flow transmitter | P&ID N° | 9-AM-1002/730 |
| SERVICE | HCL to TK902A/B & TK902N A/B | Tag. | FT-090207 |
| LOCATION | Line: 40-CW51-419 | Q.ty | 1 |

OPERATING CONDITION

| | | | |
|-----------------|-----------------------|-----------------|------------------|
| FLUID | Hydrochloric acid 31% | | |
| FLOW | 700 lit/h(min.) | 2180 lit/h(op.) | 3000 lit/h(max.) |
| PRESSURE | 4.2 bar g | | |
| TEMPERATURE | 40 °C (op.) | | |
| DENSITY | 1152 kg/m3 | | |
| VISCOSITY | 1.3 cps | | |
| DESIGN PRESSURE | 10 bar g | | |

INSTRUMENT

| | |
|------------------------|---|
| TYPE | Magnetic flow transmitter with remote converter |
| CONSTRUCTION | IP67 |
| CERTIFICATE | General purpose |
| HOUSING | st. steel |
| ACCURACY | +/- 0.3% of the range |
| CALIBRATION | 0-3000 lit/h |
| SIZE | DN 25 |
| TUBE MATERIAL | PTFE |
| ELECTRODES MATERIAL | TANTALUM |
| CONNECTION TYPE/RATING | flange , DIN PN10 |
| ELECTRICAL CONNECTION | M20 X 1.5 |
| POWER SUPPLY | From converter |
| OUTPUT SIGNAL | To converter |
| EARTHING RING | Two tantalum rings |
| SPECIAL CABLE | Required 5 mt. |

REMOTE CONVERTER

| | |
|----------------|-------------------------------|
| TYPE | Microprocessor |
| CONSTRUCTION | IP67 |
| CERTIFICATE | General purpose |
| POWER SUPPLY | 220V 50 Hz |
| OUTPUT SIGNALS | 4÷20 mA Smart / Hart protocol |
| INDICATION | LCD display |
| CALIBRATION | 0-3000 lit/h |
| BRACKET | required st.st. |

REMARKS

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

| | |
|--------------|----------------------|
| MANUFACTURER | KOBOLD |
| MODEL | DMH1-A25-T-5-5-C-2-0 |

| | | | | |
|------|-----------------|---------|----------|----------|
| 0 | Issue for order | M.MEHD. | M.KHOD. | AUG.2016 |
| Rev. | Description | Drawn. | Checked. | Date |



**INSTRUMENT
DATA SHEET
FLOW TRANSMITTER**

| | |
|---------------|----------------|
| PROJECT: | 750 NEI |
| SPC. No. | 750-SP-121 |
| DATE MAY.2020 | Sh. 11 of 12 |

PLANT Chlorine Caustic Soda Plant

| | | | |
|-------------|---------------------------|---------|----------------|
| DESCRIPTION | Magnetic flow transmitter | P&ID N° | 12-AM-1002/730 |
| SERVICE | Milk of Lime to R 1221N | Tag. | FT-120206 |
| LOCATION | Line: 40-CA47-530-ST | Q.ty | 1 |

OPERATING CONDITION

| | |
|-----------------------|---|
| FLUID | Milk of lime |
| PRESSURE | 3.5 barg |
| TEMPERATURE | 40 °C |
| DENSITY | 1140 kg/m ³ |
| VISCOSITY | 25 cps |
| NOR. FLOW / MAX. FLOW | 2 m ³ /h / 3 m ³ /h |
| CONDUCTIBILITY | |

INSTRUMENT

| | |
|-----------------------|---|
| INSTRUMENT | Magnetic flow meter with integral amplifier |
| TYPE | Smart |
| BODY MATERIAL | Carbon steel teflon lined |
| WETTED PART MATERIAL | teflon |
| ELEMENT MATERIAL | AISI 316 |
| SIZE | |
| RANGE | 0:4 m ³ /h |
| SET | |
| LIMITS OF ERROR | +/-0.5% of rate |
| SCALE | 0:100% |
| ELECT. CLASS./PROTEC. | Class H / IP-65 |
| OUTPUT | 4-20 mA dc |
| OUTPUT LOAD | 700 ohm max |
| INLET | Pulse |
| SUPPLY | 220V-50Hz |

CONNECTIONS

| | |
|----------------------|--------------|
| CONNECTIONS POSITION | Side-side |
| CONNECTIONS / TYPE | Flanged |
| RATING CONNECTION | DIN ND 40 |
| INSTRUMENT AIR | |
| ELECTRICALS | Cable glands |
| ACCESSORIES | |
| CONVERTER | |
| AIR FILTER REGULATOR | |
| LINE FILTER | |

REMARKS

MANUFACTURER
MODEL

| | | | | |
|------|-----------------|--------|----------|----------|
| 1 | Issue for order | M.ARA. | M.MOR. | MAY.2020 |
| Rev. | Description | Drawn. | Checked. | Date |



**INSTRUMENT
DATA SHEET
FLOW TRANSMITTER**

| | |
|---------------|----------------|
| PROJECT: | 750 NEI |
| SPC. No. | 750-SP-121 |
| DATE MAY.2020 | Sh. 12 of 12 |

PLANT Chlorine Caustic Soda Plant

| | | | |
|-------------|----------------------------|---------|----------------|
| DESCRIPTION | Magnetic flow transmitter | P&ID N° | 12-AM-1011/730 |
| SERVICE | Caustic Soda To R 1221-2-3 | Tag. | FT-121105 |
| LOCATION | Line: 25-CA41-654-ST | Q.ty | 1 |

OPERATING CONDITION

| | |
|-----------------------|-------------------|
| FLUID | Caustic Soda 50% |
| PRESSURE | 3 barg |
| TEMPERATURE | 35 °C |
| DENSITY | 1470 kg/m³ |
| VISCOSITY | 25.7 cps |
| NOR. FLOW / MAX. FLOW | 0.6 m³ / 0.8 m³/h |
| CONDUCTIBILITY | |

INSTRUMENT

| | |
|-----------------------|---|
| INSTRUMENT | Magnetic flow meter with integral amplifier |
| TYPE | Smart |
| BODY MATERIAL | Carbon steel teflon lined |
| WETTED PART MATERIAL | teflon |
| ELEMENT MATERIAL | Hastelloy B |
| SIZE | |
| RANGE | 0:1 m³/h |
| SET | |
| LIMITS OF ERROR | +/-0.5% of rate |
| SCALE | 0:100% |
| ELECT. CLASS./PROTEC. | Class H / IP-65 |
| OUTPUT | 4-20 mA dc |
| OUTPUT LOAD | 700 ohm max |
| INLET | Pulse |
| SUPPLY | 220V-50Hz |

CONNECTIONS

| | |
|----------------------|--------------|
| CONNECTIONS POSITION | Side-side |
| CONNECTIONS / TYPE | Flanged |
| RATING CONNECTION | DIN ND 40 |
| INSTRUMENT AIR | |
| ELECTRICALS | Cable glands |
| ACCESSORIES | |
| CONVERTER | |
| AIR FILTER REGULATOR | |
| LINE FILTER | |

REMARKS

MANUFACTURER
MODEL

| | | | | |
|------|-----------------|--------|----------|----------|
| 1 | Issue for order | M.ARA. | M.MOR. | MAY.2020 |
| Rev. | Description | Drawn. | Checked. | Date |



**INSTRUMENT
DATA SHEET
FLOW TRANSMITTER**

| | |
|----------|----------------|
| PROJECT: | 750 NEI |
| SPC. No. | 750-FB-3025P |
| DATE | JAN.2016 |
| Sh. | 2 of 5 |

PLANT Chlorine Caustic Soda Plant

| | | | |
|-------------|------------------------------|---------|-------------|
| DESCRIPTION | Magnetic flow transmitter | P&ID N° | D281403/750 |
| SERVICE | NaOH 33% from P203 to E1303N | Tag. | FT-5201 |
| LOCATION | Line: 40-CSF-C210-309 | Q.ty | 1 |

OPERATING CONDITION

| | | | |
|-----------------|------------------------------|------|----------------------|
| FLUID | NAOH 33% | | |
| FLOW | 7.18 m ³ /h (OP.) | MAX. | 10 m ³ /h |
| PRESSURE | 5.4 bar g. (OP.) | | |
| DESIGN PRESSURE | 10 bar g. | | |
| TEMPERATURE | 80 °C (op.) | | |
| DENSITY | 1320 Kg/m ³ | | |
| CONDUCTIVITY | S/cm | | |
| VISCOSITY | 2.5 cP | | |

INSTRUMENT

| | |
|------------------------|---|
| TYPE | Magnetic flow transmitter with remote converter |
| CONSTRUCTION | IP67 |
| CERTIFICATE | General purpose |
| HOUSING | Steel epoxy coating |
| ACCURACY | +/- 0.3% of the range |
| CALIBRATION | 0÷10 m ³ /h |
| SIZE | std. manuf. |
| TUBE MATERIAL | St.st. PFA lined |
| ELECTRODES MATERIAL | Hastelloy C276 |
| CONNECTION TYPE/RATING | DIN PN10 |
| ELECTRICAL CONNECTION | M20x1.5 |
| POWER SUPPLY | From converter |
| OUTPUT SIGNAL | To converter |
| EARTHING RING | Two nickel rings |
| SPECIAL CABLE | Required 5 mt. |

REMOTE CONVERTER

| | |
|----------------|-------------------------------|
| TYPE | Microprocessor |
| CONSTRUCTION | IP67 |
| CERTIFICATE | General purpose |
| POWER SUPPLY | 220V 50 Hz |
| OUTPUT SIGNALS | 4÷20 mA Smart / Hart protocol |
| INDICATION | LCD display |
| CALIBRATION | 0÷10 m ³ /h |
| BRACKET | Required st.st. |

REMARKS

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

MANUFACTURER

MODEL

| | | | | |
|------|-----------------|---------|----------|----------|
| 0 | Issue for order | M.MEHD. | M.KHOD. | DEC.2015 |
| Rev. | Description | Drawn. | Checked. | Date |



**INSTRUMENT
DATA SHEET
FLOW TRANSMITTER**

| | |
|---------------|----------------|
| PROJECT: | 750 NEI |
| SPC. No. | 750-FB-3025P |
| DATE DEC.2015 | Sh. 5 of 5 |

PLANT Chlorine Caustic Soda Plant

| | | | |
|-------------|-------------------------------------|---------|-------------|
| DESCRIPTION | Magnetic flow transmitter | P&ID N° | D281403/750 |
| SERVICE | NaOH 65% From P1302N to D281404/750 | Tag. | FT-5202 |
| LOCATION | Line: 50-CSL-C910-334 | Q.ty | 1 |

OPERATING CONDITION

| | | | |
|-----------------|-----------------------------|--------|-------------------|
| FLUID | NAOH 65% | | |
| FLOW | 1.9 m ³ /h (OP.) | max. 6 | m ³ /h |
| PRESSURE | 6 bar g. | | |
| DESIGN PRESSURE | 10 bar g. | | |
| TEMPERATURE | 127.6 °C (op.) | | |
| DENSITY | 1590 Kg/m ³ | | |
| CONDUCTIVITY | S/cm | | |
| VISCOSITY | 3.4 cP | | |

INSTRUMENT

| | | | |
|------------------------|---|--|--|
| TYPE | Magnetic flow transmitter with remote converter | | |
| CONSTRUCTION | IP67 | | |
| CERTIFICATE | General purpose | | |
| HOUSING | Steel epoxy coating | | |
| ACCURACY | +/- 0.3% of the range | | |
| CALIBRATION | 0÷6 m ³ /h | | |
| SIZE | std. manuf. | | |
| TUBE MATERIAL | St.st. PFA lined | | |
| ELECTRODES MATERIAL | Hastelloy C276 | | |
| CONNECTION TYPE/RATING | DIN PN10 | | |
| ELECTRICAL CONNECTION | M20x1.5 | | |
| POWER SUPPLY | From converter | | |
| OUTPUT SIGNAL | To converter | | |
| EARTHING RING | Two nickel rings | | |
| SPECIAL CABLE | Required 5 mt. | | |

REMOTE CONVERTER

| | | | |
|----------------|-------------------------------|--|--|
| TYPE | Microprocessor | | |
| CONSTRUCTION | IP67 | | |
| CERTIFICATE | General purpose | | |
| POWER SUPPLY | 220V 50 Hz | | |
| OUTPUT SIGNALS | 4÷20 mA Smart / Hart protocol | | |
| INDICATION | LCD display | | |
| CALIBRATION | 0÷6 m ³ /h | | |
| BRACKET | Required st.st. | | |

REMARKS

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

MANUFACTURER
MODEL

| | | | | |
|------|-----------------|---------|----------|----------|
| 0 | Issue for order | M.MEHD. | M.KHOD. | DEC.2015 |
| Rev. | Description | Drawn. | Checked. | Date |



**INSTRUMENT
DATA SHEET
FLOW TRANSMITTER**

PROJECT: **750 NEI**
 SPC. No. **750-FB-3025P**
 DATE DEC.2015 Sh. 4 of 5

PLANT Chlorine Caustic Soda Plant

| | | | |
|-------------|---------------------------|---------|-------------|
| DESCRIPTION | Magnetic flow transmitter | P&ID N° | D281403/750 |
| SERVICE | NaOH 50% to E1305 | Tag. | FT-5203 |
| LOCATION | Line: 50-CSL-C910-321 | Q.ty | 1 |

OPERATING CONDITION

| | | | |
|-----------------|------------------------------|----------|-------------------|
| FLUID | NAOH 50% | | |
| FLOW | 4.26 m ³ /h (OP.) | max. 6 | m ³ /h |
| PRESSURE | 6 bar g. | | |
| DESIGN PRESSURE | 10 bar g. | | |
| TEMPERATURE | 102 °C (op.) | max. 120 | °C |
| DENSITY | 1468 Kg/m ³ | | |
| CONDUCTIVITY | S/cm | | |
| VISCOSITY | 3.2 cP | | |

INSTRUMENT

| | |
|------------------------|---|
| TYPE | Magnetic flow transmitter with remote converter |
| CONSTRUCTION | IP67 |
| CERTIFICATE | General purpose |
| HOUSING | Steel epoxycoating |
| ACCURACY | +/- 0.3% of the range |
| CALIBRATION | 0÷6 m ³ /h |
| SIZE | std. manuf. |
| TUBE MATERIAL | St.st. PFA lined |
| ELECTRODES MATERIAL | Hastelloy C276 |
| CONNECTION TYPE/RATING | DIN PN10 |
| ELECTRICAL CONNECTION | M20x1.5 |
| POWER SUPPLY | From converter |
| OUTPUT SIGNAL | To converter |
| EARTHING RING | Two nickel rings |
| SPECIAL CABLE | Required 5 mt. |

REMOTE CONVERTER

| | |
|----------------|-------------------------------|
| TYPE | Microprocessor |
| CONSTRUCTION | IP67 |
| CERTIFICATE | General purpose |
| POWER SUPPLY | 220V 50 Hz |
| OUTPUT SIGNALS | 4÷20 mA Smart / Hart protocol |
| INDICATION | LCD display |
| CALIBRATION | 0÷6 m ³ /h |
| BRACKET | Required st.st. |

REMARKS

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

MANUFACTURER
MODEL

| | | | | |
|------|-----------------|---------|----------|----------|
| 0 | Issue for order | M.MEHD. | M.KHOD. | DEC.2015 |
| Rev. | Description | Drawn. | Checked. | Date |



**INSTRUMENT
DATA SHEET
FLOW TRANSMITTER**

PROJECT: **750 NEI**
 SPC. No. 750-FB-3025P
 DATE DEC.2015 Sh. 3 of 5

PLANT Chlorine Caustic Soda Plant

| | | | |
|-------------|--------------------------------|---------|-------------|
| DESCRIPTION | Magnetic flow transmitter | P&ID N° | D281403/750 |
| SERVICE | NaOH 50% From P1305N to E1308B | Tag. | FT-5222 |
| LOCATION | Line: 50-CSL-C910-321 | Q.ty | 1 |

OPERATING CONDITION

| | |
|-----------------|--|
| FLUID | NAOH 50% |
| FLOW | 2.8 m ³ /h (OP.) max. 4.2 m ³ /h |
| PRESSURE | 6 bar g. |
| DESIGN PRESSURE | 10 bar g. |
| TEMPERATURE | 120 °C (op.) |
| DENSITY | 1468 Kg/m ³ |
| CONDUCTIVITY | S/cm |
| VISCOSITY | 2.5 cP |

INSTRUMENT

| | |
|------------------------|---|
| TYPE | Magnetic flow transmitter with remote converter |
| CONSTRUCTION | IP67 |
| CERTIFICATE | General purpose |
| HOUSING | Steel epoxy coating |
| ACCURACY | +/- 0.3% of the range |
| CALIBRATION | 0÷5 m ³ /h |
| SIZE | std. manuf. |
| TUBE MATERIAL | St.st. PFA lined |
| ELECTRODES MATERIAL | Hastelloy C276 |
| CONNECTION TYPE/RATING | DIN PN10 |
| ELECTRICAL CONNECTION | M20x1.5 |
| POWER SUPPLY | From converter |
| OUTPUT SIGNAL | To converter |
| EARTHING RING | Two nickel rings |
| SPECIAL CABLE | Required 5 mt. |

REMOTE CONVERTER

| | |
|----------------|-------------------------------|
| TYPE | Microprocessor |
| CONSTRUCTION | IP67 |
| CERTIFICATE | General purpose |
| POWER SUPPLY | 220V 50 Hz |
| OUTPUT SIGNALS | 4÷20 mA Smart / Hart protocol |
| INDICATION | LCD display |
| CALIBRATION | 0÷5 m ³ /h |
| BRACKET | Required st.st. |

REMARKS

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

MANUFACTURER

MODEL

| | | | | |
|------|-----------------|---------|----------|----------|
| 0 | Issue for order | M.MEHD. | M.KHOD. | DEC.2015 |
| Rev. | Description | Drawn. | Checked. | Date |

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Transmitter for kobold flow transmitter model:UMF2 D11GOBK1