OPTIFLUX 5000 FL

CRN Approval

© KROHNE 09/2010
September 08, 2010

Tanya Francis  
TECHNICAL STANDARDS & SAFETY AUTHORITY  
3300 BLOOR STREET WEST  
14 FLOOR CENTRE TOWER  
TORONTO, ON  M8X 2X4

Dear Tanya Francis,

The design submission, tracking number 2010-04827, originally received on August 11, 2010 was surveyed and accepted for registration as follows:

CRN : 0F13998.52  
Reg Type : New Design  
Drawing No. : 33158110,113,115 / 20599602,702,802 As Noted  
Fitting Desc: MAGNETIC INDUCTIVE FLOW METERS  

Design registered in the name of: KROHNE ALTOMETER  

The registration is conditional on your compliance with the following notes:

Per TSSA's note: "Flange material : size 6", 8" and 10"-P235GH (equivalent to SA285 grade A). The rest: 1.4408 per EN10213 (equivalent to A351 Gr.CF8M). Housing material : 1.4408 per EN10213 (equivalent to A351 Gr. CF8M). Ceramic flow tube: FZM Cermet.  

This registration is valid until the indicated expiry date only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

Enclosed are stamped prints for your reference.

Sincerely,

[Signature]

FOK, PO, P. Eng.  
Design Survey Engineer
In this space, show facsimile of manufacturer’s logo or trademark as it will appear on the fitting.

Honeywell

KROHNE

STATUTORY DECLARATION
Registration of Fittings

I, Cor Schellaars, chief engineer
of Krohne Altemeter
located at Kerkeplaat 12 Dordrecht, The Netherlands, (PO box 110 zip code 3300AC Dordrecht)
do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act
(check one)
☐ comply with the requirements of ____________ which specifies the dimensions,
   (title of recognized North American Standard)
   materials of construction, pressure/temperature ratings and identification marking of the fittings, or
☐ are not covered by the provisions of a recognized North American standard and are therefore manufactured to
   comply with ASME VIII div.1/ASME B31.3 as supported by the attached data which identifies the dimensions,
   materials of construction, pressure/temperature ratings and the basis for such ratings, and the marking of the fittings
   for identification.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the
following authority, LRQA as being suitable for the manufacture of these fittings to the
stated standard. The fittings covered by this declaration, for which I seek registration, are (Meas dev.cat.F)

In support of this application, the following information, calculations and/or test data are attached:
See page 2 "Statutory Declaration Registration of fittings OPTIFLUX 5000 FL & VersaFlow Mag 2000 FL C/F"

DECLARED before me at Sliedrecht in the ________ of
this ________ day of ________, ________
(print) ____________
(sign) ____________
(A Commissioner for Oaths)

For Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard
B51, Clause 4.2, and is accepted for registration in Category
Registration Number: 0F 13998.52
Date Registered: SEP 08 2010

(For the Administrator/Chief Inspector of Alberta)
Expiration Date: Aug 4, 2020

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Boiler Discipline.
Statutory Declaration Registration of Fittings
OPTIFLUX 5000 FL and VersaFlow Mag 2000 FL
Page 2
Revision 3

On behalf of KROHNE Altimeter we are applying for an CRN Design Registration for our magnetic inductive flow meters OPTIFLUX 5x00 FL series as well as for Honeywell’s VersaFlow Mag 2000 FL series as described within. The OPTIFLUX flow meters will be equipped with the KROHNE Logo, the VersaFlow Mag flow meters will be equipped with the Honeywell Logo.

Product model names to be registered include:

OPTIFLUX 5300FL/C = TWM 9000 C + VersaFlow Mag 2000 FL/C
OPTIFLUX 5300FL/F = TWM 9000 F + VersaFlow Mag 2000 FL/F
OPTIFLUX 5100FL/C = TWM 1000 C + VersaFlow Mag 2000 FL/C
OPTIFLUX 5100FL/F = TWM 1000 F + VersaFlow Mag 2000 FL/F
OPTIFLUX 5000FL/F = VersaFlow Mag 2000 FL/F

For above listed models names, we are applying for Flanged type of fitting for sizes:

½", 1", 2", 3", Full rating 300 LBS.
1" 1.5", 2", 3", 4", Full rating 150 LBS flanges
6", 8" 150 LBS flanges, MWP 10 bar
10" 150 LBS flanges, MWP 6 Bar.

Design standard, stress calculation and all materials for all parts including Tube, wall thickness etc. used to manufacture VersaFlow Mag 2000 FL are identical to the OPTIFLUX 5300 FL, OPTIFLUX 5100 FL and OPTIFLUX 5000 FL.

Maximum Working pressures/ Temperatures/ Sizes/ Class are also identical between these two models.

The only difference between the VersaFlow and the OPTIFLUX are as follows:

1. Model name number on the name plate will be VersaFlow Mag 2000FL.
2. Paint scheme
3. The trade name will be Honeywell on the VersaFlow Mag product name plate.

Both Product model series are manufactured by the same KROHNE manufacturing facility. The reason for multiple Product names is that the flow-tube can be configured with different electronic signal converters mounted on top of the flow-tube.

By including all product label names in our CRN, the local inspector will not be confused when inspecting a meter and the corresponding CRN document. Each letter of these product names are defined: F = field, signal converter remotely connected by electrode/coil cable to flow-tube; C = Compact, signal converter attached directly to flow-tube.

The Ceramic flow tubes are hydrostatically tested (Third party TUV). The allowable working pressure is determined as 1/10 of the witnessed hydrostatic test pressure.

Attachments

1. Flow tube DN 15 draw. 33158110C
2. Flow tube DN 25 draw. 33158111E
3. Flow tube DN 40 draw. 33158112D
4. Flow tube DN 50 draw. 33158113D
5. Flow tube DN 80 draw. FZ 3315811400E
6. Flow tube DN 100 draw. 33158115D
7. Flow tube DN 150 draw. 20599602H
8. Flow tube DN 200 draw. 20599702H
9. Flow tube DN 250 draw. 20599802I
10. GA Draw. DN ½" 150 lbs 73097516
11. GA Draw. DN 1" 150 lbs 73097510
12. GA Draw. DN 1.5" 150 lbs 73097511
13. GA Draw. DN 2" 150 lbs 73097509
14. GA Draw. DN 3" 150 lbs 73097508
15. GA Draw. DN 4" 150 lbs 73097505
16. GA Draw. DN 6" 150 lbs 73030463A
17. GA Draw. DN 8” 150 lbs 73030461A
18. GA Draw. DN 10” 150 lbs 73030466.
19. GA Draw. DN ½ “ 300 lbs 73097516
20. GA Draw. DN 1” 300 lbs 73097524
21. GA Draw. DN 2” 300 lbs 73097525
22. GA Draw. DN 3” 300 lbs 73097526
23. Flange DN 1” 150 lbs 33158001A
24. Flange DN 1½” 150 lbs 33158002A.
25. Flange DN 2” 150 lbs 33158003A
26. Flange DN 3” 150 lbs 33158004A
27. Flange DN 4” 150 lbs 33158005A
28. Flange DN 6” 150 lbs 30705000T
29. Flange DN 8” 150 lbs 30705100T
30. Flange DN 10” 150 lbs.30705201T
31. Flange DN ½ “ 300 lbs 33158010
32. Flange DN 1” 300 lbs 33158011
33. Flange DN 2” 300 lbs 33158013
34. Flange DN 3” 300 lbs 33158014
35. Housing DN 15 draw. 33158201
36. Housing DN 25 draw. 33158210A
37. Housing DN 40 draw. 33158211A
38. Housing DN 50 draw. 33158204A
39. Housing DN 80 draw. 33158212A
40. Housing DN 100 draw. 33158206A
41. Housing DN 150 draw. 3071220095K
42. Housing DN 200 draw. 3071220095K
43. Housing DN 250 draw. 3071220095 K
44. ISO 9001_2008 KROHNE Almeter certificate
45. KROHNE Almeter Quality manual.
46. CRN Witnessing report ceramic tubes.

End of page 3.
STATUTORY DECLARATION
Registration of Fittings

I, Cor Schellaars, Chief Engineer
of Krohne Altimeter
Located at Kerkeplaat 12, Dordrecht, the Netherlands

☐ I do solemnly declare that the fittings listed hereunder, which are subject to the Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, comply with all of the requirements of

☐ or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with ASME VIII div.1 / ASME B31.3 as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001 which has been verified by the following authority, LOR.

The items covered by this declaration, for which I seek registration, are category type fittings. In support of this application, the following information and/or test data are attached as follows:

See page 2 of Statutory Declaration Registration of Fittings Optiflux 5000 FL / VersaFlow Mag 2000 FL C/F (drawings, calculations, test reports, etc.)

Declared before me at Sliedrecht in the of
the 30th day of December AD 20 09.

Commissioner for Oaths:

(Printed name)

(Signature)

FOR OFFICE USE ONLY

CRN:

0F13998.5

Registered by:

NORMAN NGAI

Dated:

Aug. 4, 2010

NOTE: This registration expires on Aug. 4, 2020

NOTE: FLANGE MATERIAL: SIZE 6, 8" AND 10" = P235 GH (EQUIVALENT TO SA 285 GRADE A), THE REST = 1.4408 PER EN 10213 (EQUIVALENT TO A351 GR. CF8M). HOUSING MATERIAL = 1.4408 PER EN 10213 (EQUIVALENT TO A351 GR. CF8M). CERAMIC FLOW TUBE = FZM CERMET.

Also see page 2 and 3 attached.
Statutory Declaration Registration of Fittings
OPTIFLUX 5000 FL and VersaFlow Mag 2000 FL
Page 2
Revision 3

On behalf of KROHNE Almeter we are applying for an CRN Design Registration for our magnetic inductive flow meters OPTIFLUX 5x00 FL series as well as for Honeywell’s VersaFlow Mag 2000 FL series as described within. The OPTIFLUX flow meters will be equipped with the KROHNE Logo, the VersaFlow Mag flow meters will be equipped with the Honeywell Logo.

Product model names to be registered include:

OPTIFLUX 5300FL/C = TWM 9000 C + VersaFlow Mag 2000 FL/C
OPTIFLUX 5300FL/F = TWM 9000 F + VersaFlow Mag 2000 FL/F
OPTIFLUX 5100FL/C = TWM 1000 C + VersaFlow Mag 2000 FL/C
OPTIFLUX 5100FL/F = TWM 1000 F + VersaFlow Mag 2000 FL/F
OPTIFLUX 5000FL/F = VersaFlow Mag 2000 FL/F

For above listed models names, we are applying for Flanged type of fitting for sizes:

- ½" 1", 2", 3", Full rating 300 LBS.
- 1" 1.5", 2", 3", 4", Full rating 150 LBS flanges
- 6", 8" 150 LBS flanges, MWP 10 bar
- 10" 150 LBS flanges, MWP 6 Bar.

Design standard, stress calculation and all materials for all parts including Tube, wall thickness etc. used to manufacture VersaFlow Mag 2000 FL are identical to the OPTIFLUX 5300 FL, OPTIFLUX 5100 FL and OPTIFLUX 5000 FL.

Maximum Working pressures/ Temperatures/ Sizes/ Class are also identical between these two models.

The only difference between the VersaFlow and the OPTIFLUX are as follows:

1. Model number on the name plate will be VersaFlow Mag2000FL.
2. Paint scheme
3. The trade name will be Honeywell on the VersaFlow Mag product name plate.

Both Product model series are manufactured by the same KROHNE manufacturing facility. The reason for multiple Product names is that the flow-tube can be configured with different electronic signal converters mounted on top of the flow-tube.

By including all product label names in our CRN, the local inspector will not be confused when inspecting a meter and the corresponding CRN document. Each letter of these product names are defined: F = field, signal converter remotely connected by electrode/coil cable to flow-tube; C = Compact, signal converter attached directly to flow-tube.

The Ceramic flow tubes are hydrostatically tested (Third party TUV). The allowable working pressure is determined as 1/10 of the witnessed hydrostatical test pressure.

Attachments

1. Flow tube DN 15 draw. 33158110C
2. Flow tube DN 25 draw. 33158111E
3. Flow tube DN 40 draw. 33158112D
4. Flow tube DN 50 draw. 33158113D
5. Flow tube DN 80 draw. FZ 3315811400E
6. Flow tube DN 100 draw. 33158115D
7. Flow tube DN 150 draw. 20599602H
8. Flow tube DN 200 draw. 20599702H
9. Flow tube DN 250 draw. 20599802I
10. GA Draw. DN ½" 150 lbs 73097516
11. GA Draw. DN 1" 150 lbs 73097510
12. GA Draw. DN 1.5" 150 lbs 73097511
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35. Housing DN 15 draw. 33158201
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38. Housing DN 50 draw. 33158204A
39. Housing DN 80 draw. 33158212A
40. Housing DN 100 draw. 33158206A
41. Housing DN 150 draw. 3071220095K
42. Housing DN 200 draw. 3071220095K
43. Housing DN 250 draw. 3071220095K
44. ISO 9001_2008 KROHNE Altimeter certificate
45. KROHNE Altimeter Quality manual.
46. CRN Witnessing report ceramic tubes.

End of page 3.
STATUTORY DECLARATION
Registration of Fittings

I, Cor Schellaars, Chief engineer
of Krohne Altemeter

Located at Kerkeplaat 12, Dordrecht, the Netherlands 0031 78 630 6354

☐ do solemnly declare that the fittings listed hereunder, which are subject to the Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, comply with all of the requirements of

☐ or are not covered by the provisions of a recognized North American Standard and are therefore manufactured to comply with ASME VIII div.1 / ASME B31.3, as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001 which has been verified by the following authority, LQRA.

The items covered by this declaration, for which I seek registration, are category meas. dev. Cat. F type fittings. In support of this application, the following information and/or test data are attached as follows:
See page 2 of Statutory Declaration Registration of Fittings Optiflux 5000 FL / VersaFlow Mag 2000 FL C/F (drawings, calculations, test reports, etc.)

Declared before me at Sliedrecht in the
the 30th day of December AD 2009.

Commissioner for Oaths:

(.Printed name)

(Signature)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category F

CRN: CSA-OF13998.56
Registered by: Bokramjit S. Sandhu, P.Eng
Dated: 27 August 2010

NOTE: This registration expires on Aug 4, 2010

Note: Flange material: size 6", 8", A 105: P 235GH (Equivalent to SA 285 Grade A), The rest: 1.4408 per En10213 (Equivalent to A351Gr. CF8). Housing material: 1.4408 per En10213 (Equivalent to A351Gr. CF8M). CERAMIC FLOW TUBE: F2M CERAMET - Also see page 2 as attachment
Statutory Declaration Registration of Fittings
OPTIFLUX 5000 FL and VersaFlow Mag 2000 FL

Page 2

Revision 3

On behalf of KROHNE Altimeter we are applying for an CRN Design Registration for our magnetic inductive flow meters OPTIFLUX 5x00 FL series as well as for Honeywell's VersaFlow Mag 2000 FL series as described within. The OPTIFLUX flow meters will be equipped with the KROHNE Logo, the VersaFlow Mag flow meters will be equipped with the Honeywell Logo.

Product model names to be registered include:
OPTIFLUX 5300FL/C = TWM 9000 C + VersaFlow Mag 2000 FL/C
OPTIFLUX 5300FL/F = TWM 9000 F + VersaFlow Mag 2000 FL/F
OPTIFLUX 5100FL/C = TWM 1000 C + VersaFlow Mag 2000 FL/C
OPTIFLUX 5100FL/F = TWM 1000 F + VersaFlow Mag 2000 FL/F
OPTIFLUX 5000FL/F = VersaFlow Mag 2000 FL/F

For above listed models names, we are applying for Flanged type of fitting for sizes:

½", 1", 2", 3", 4", Full rating 300 LBS.
1" 1.5", 2", 3", 4", Full rating 150 LBS flanges
6", 8" 150 LBS flanges, MWP 10 bar
10" 150 LBS flanges, MWP 6 Bar.

Design standard, stress calculation and all materials for all parts including Tube, wall thickness etc. used to manufacture VersaFlow Mag 2000 FL are identical to the OPTIFLUX 5300 FL, OPTIFLUX 5100 FL and OPTIFLUX 5000 FL.

Maximum Working pressures/ Temperatures/ Sizes/ Class are also identical between these two models.

The only difference between the VersaFlow and the OPTIFLUX are as follows:

1. Model name number on the name plate will be VersaFlow Mag 2000FL.
2. Paint scheme
3. The trade name will be Honeywell on the VersaFlow Mag product name plate.

Both Product model series are manufactured by the same KROHNE manufacturing facility. The reason for multiple Product names is that the flow-tube can be configured with different electronic signal converters mounted on top of the flow-tube.

By including all product label names in our CRN, the local inspector will not be confused when inspecting a meter and the corresponding CRN document. Each letter of these product names are defined: F = field, signal converter remotely connected by electrode/coil cable to flow-tube; C = Compact, signal converter attached directly to flow-tube.

The Ceramic flow tubes are hydrostatically tested (Third party TUV). The allowable working pressure is determined as 1/10 of the witnessed hydrostastical test pressure.

Attachments
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43. Housing DN 250 draw. 3071220095K
44. ISO 9001_2008 KROHNE Altimeter certificate
45. KROHNE Altimeter Quality manual.
46. CRN Witnessing report ceramic tubes.

End of page 3.
UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

MANUFACTURERS NAME: Krohne Altometer
MANUFACTURERS ADDRESS: Kerkeplaat 12, Dordrecht, the Netherlands
PLANT LOCATIONS: See above

CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY
A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers
B Flanges: all flanges
C Valves: all line valves
D Expansion joints, flexible connections, and hose assemblies: all types
E Strainers, filters, separators, and steam traps
F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters
G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs
H Pressure retaining components that do not fall into one of the above categories
N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting AECB or ASME requirements)

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT

KROHNE Honeywell

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

See page 2
"Statutory Declaration Registration of fittings OPTIFLUX 5000 FL
& VersaFlow Mag 2000 FL C/F"

DECLARATION:

I, John van der Graaf (see note 2) employed by KROHNE Altometer and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by LOR A as being suitable for the purpose and I make this solemn declaration conscientiously believing it to be true. And knowing that it is of the same force and effect as if made under oath.

Signature of Declarer:

Declared before me at Dordrecht
This 30th day of December AD 2009
Commissioner of Oaths or Notary Public: (sign)

This space for Regulatory Authority use
This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: 0F13998.5
FID#: 2015
Notes:
1. All fittings shall be registered in the name of the Manufacturer.
2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.

REGISTRATION ONLY
CRN 0F13998.57
EXAMINER: [Signature]
DATE: 08/19/10
☐ BLRs ☐ PVs
☐ FITTINGS ☐ COMPONENTS
DEPT OF PUBLIC SAFETY
BOILER & PRESSURE VESSEL ACT
USE THIS SPACE FOR THE OFFICIAL SEAL
UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NOVA SCOTIA
PRINCE EDWARD ISLAND
NEWFOUNDLAND AND LABRADOR
NUNAVUT
YUKON
NORTHWEST TERRITORIES

MANUFACTURERS NAME: Krohne Alrometer

MANUFACTURERS ADDRESS: Kerkeplaat 12, Dordrecht, the Netherlands

PLANT LOCATIONS: See above

CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY
A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers
B Flanges: all flanges
C Valves: all line valves
D Expansion joints, flexible connections, and hose assemblies: all types
E Strainers, filters, separators, and steam traps
F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters
G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs
H Pressure retaining components that do not fall into one of the above categories
I Nuclear components: Class 1  □ Class 2  □ Class 3  □ (Meeting AECB or ASME requirements)

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT

KROHNE

Honeywell

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

See page 2

"Statutory Declaration Registration of fittings OPTIFLUX 5000 FL

&

VersaFlow Mag 2000 FL C/F"

DECLARATION:

I John van der Graaf (see note 3) employed by Krohne Alrometer and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by LORAS □ as being suitable for the purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: __________________________

Declared before me at __________________________

This 30th day of __________________________ AD 2009

Commissioner of Oaths or Notary Public: __________________________

(use this space for regulatory authority use)

This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: DF13998.5

FID#: 2015

Notes:
1. All fittings shall be registered in the name of the manufacturer.
2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.
On behalf of KROHNE Altimeter we are applying for an CRN Design Registration for our magnetic inductive flow meters OPTIFLUX 5x00 FL series as well as for Honeywell’s VersaFlow Mag 2000 FL series as described within. The OPTIFLUX flow meters will be equipped with the KROHNE Logo, the VersaFlow Mag flow meters will be equipped with the Honeywell Logo.

Product model names to be registered include:

OPTIFLUX 5300FL/C = TWM 9000 C + VersaFlow Mag 2000 FL/C
OPTIFLUX 5300FL/F = TWM 9000 F + VersaFlow Mag 2000 FL/F
OPTIFLUX 5100FL/C = TWM 1000 C + VersaFlow Mag 2000 FL/C
OPTIFLUX 5100FL/F = TWM 1000 F + VersaFlow Mag 2000 FL/F
OPTIFLUX 5000FL/F = VersaFlow Mag 2000 FL/F

For above listed models names, we are applying for Flanged type of fitting for sizes:

- 1/4", 1", 2", 3", 1 1/2", 2", 3", 4", Full rating 300 LBS.
- 6", 8", 150 LBS flanges, MWP 10 bar
- 10" 150 LBS flanges, MWP 6 Bar.

Design standard, stress calculation and all materials for all parts including tube, wall thickness etc. used to manufacture VersaFlow Mag 2000 FL are identical to the OPTIFLUX 5300 FL, OPTIFLUX 5100 FL and OPTIFLUX 5000 FL.

Maximum Working pressures/ Temperatures/ Sizes/ Class are also identical between these two models.

The only difference between the VersaFlow and the OPTIFLUX are as follows:

1. Model name number on the name plate will be VersaFlow Mag 2000FL.
2. Paint scheme
3. The trade name will be Honeywell on the VersaFlow Mag product name plate.

Both Product model series are manufactured by the same KROHNE manufacturing facility.

The reason for multiple Product names is that the flow-tube can be configured with different electronic signal converters mounted on top of the flow-tube.

By including all product label names in our CRN, the local inspector will not be confused when inspecting a meter and the corresponding CRN document. Each letter of these product names are defined: F = field, signal converter remotely connected by electrode/coil cable to flow-tube; C = Compact, signal converter attached directly to flow-tube.

The Ceramic flow tubes are hydrostatically tested (Third party TUV). The allowable working pressure is determined as 1/10 of the witnessed hydrostatic test pressure.

Attachments

1. Flow tube DN 15 draw. 33158110C
2. Flow tube DN 25 draw. 33158111E
3. Flow tube DN 40 draw. 33158112D
4. Flow tube DN 50 draw. 33158113D
5. Flow tube DN 80 draw. FZ 3315811400E
6. Flow tube DN 100 draw. 33158115D
7. Flow tube DN 150 draw. 20599602H
8. Flow tube DN 200 draw. 20599702H
9. Flow tube DN 250 draw. 20599802I
10. GA Draw. DN 1/4" 150 lbs 73097516
11. GA Draw. DN 1" 150 lbs 73097510
12. GA Draw. DN 1 1/4" 150 lbs 73097511
13. GA Draw. DN 2" 150 lbs 73097509
14. GA Draw. DN 3" 150 lbs 73097508
15. GA Draw. DN 4" 150 lbs 73097505
16. GA Draw. DN 6" 150 lbs 73030463A
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<th>No.</th>
<th>Item Description</th>
<th>DN</th>
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<td>22</td>
<td>GA Draw. DN 3&quot; 300 lbs</td>
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<td>Housing DN 15 draw.</td>
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<td>Housing DN 80 draw.</td>
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<td>Housing DN 100 draw.</td>
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<td>Housing DN 250 draw.</td>
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<td>KROHNE Altimeter Quality manual</td>
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<td>46</td>
<td>CRN Witnessing report ceramic tubes</td>
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End of page 3.
UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NOVA SCOTIA
PRINCE EDWARD ISLAND
YUKON

MANUFACTURER'S NAME: Krohne Almometer
MANUFACTURER'S ADDRESS: Karreplant 12, Bredrecht, the Netherlands

PLANT LOCATIONS: See above

CATEGORY OF FITTINGS TO BE REGISTERED: CIRCLE ONE CATEGORY ONLY

A. Pipe fittings, including couplings, tees, elbows, Y's, plugs, unions, pipe caps, or reducers
B. Flanges: all flanges
C. Valves: all line valves
D. Expansion joints, flexible connections, and hose assemblies: all types
E. Strainers, filters, separators, and steam traps
F. Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters
G. Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs
H. Pressure retaining components that do not fall under one of the above categories
I. Nuclear components: Class 1 √ Class 2 √ Class 3 √ (Meeting ASME or ASME requirements)

NOTE: THE MANUFACTURER OF THE FITTINGS TO BE REGISTERED

Proprietary Standard supported by

ASME VIII div. 1/
ASME B31.3 calculations and/or proof tests

TYPE OF NONCONSTRUCTION

PRODUCED BY WELDER: WROUGHT OF

Other

DESCRIBE OTHER:

KROHNE Honeywell

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

See page 2

Statutory Declaration Registration of fittings OPTIFLUX 5000 FL

VersaFlow Mag 2000 FL C/F

DECLARATION:

I, John van der Graaf (see note 3) employed by KROHNE Almometer and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by an independent laboratory as being suitable for the purpose and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if signed under oath.

Signature of Declarer:

宣誓声明

declared before me

Signature of Commissioner of Oaths or Notary Public: (sign)

This registration must be revalidated after ten (10) years from the date of registration.

CRN: 0F13998.5

FID#: 2015

Notes:
1. All fittings shall be registered in the name of the Manufacturer.
2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
4. Quality control programs shall be revalidated for validation at a maximum interval of five (5) years.

REGISTERED

UNDER THE AUTHORITY OF THE BOILER AND PRESSURE VESSEL ACT.

C.R.N.: 0F13998.5

DATE: Aug 24/10

$150.00
UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NOVA SCOTIA
PRINCE EDWARD ISLAND
YUKON
NUNAVUT
NORTHWEST TERRITORIES
NEWFOUNDLAND AND LABRADORS

MANUFACTURERS NAME: Krohne Almornar
MANUFACTURERS ADDRESS: Kerkeplant 12, Dordrecht, the Netherlands
PLANT LOCATIONS: See above

CATEGORY OF FITTINGS TO BE REGISTERED. SINGLE ONE CATEGORY ONLY:
A. Pipe fittings, including couplings, flanges, elbows, tees, plugs, union, pipe caps, or reducers
B. Flanges: all flanges
C. Valves: all valve types
D. Expansion joints, flexible connections, and hose assemblies: all types
E. Stainles filters, separators, and steam traps
F. Measuring devices, including pressure gauges, level gauges, sight glasses, levelers, or pressure transmitters
G. Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs
H. Pressure retaining components that do not fall into one of the above categories
I. Nuclear components: Class I □ Class II □ Class III □ (Meeting ASME or ASME requirements)

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT:

KROHNE Honeywell

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:
See page 2
"Statutory Declaration Registration of fittings OPTIFLUX 5000 FL & VersaFlow Mag 2000 FL C/F"

DECLARATION:
I, John van der Graaf, employed by Krohne Almornar and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form in true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure, temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by LIRA as being suitable for the purpose and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as the seal hereunder affixed.

Signature of Declarer:
Declared before me at Sluiskil December AD 2009
This 30th day of December AD 2009
Commissioner of Oaths or Notary Public: (sign)

This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: 0F13998.5
FID#: 2015

Notes:
1. All fittings shall be registered in the name of the Manufacturer.
2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.

Signed: Yvonne Penny
UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTINGS DESIGNS

NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND AND LABRADOR
NUNAVUT YUKON NORTHWEST TERRITORIES

MANUFACTURERS NAME: Krohne Altemeter
MANUFACTURERS ADDRESS: Kerkoplant 12, Dordrecht, the Netherlands
PLANT LOCATIONS: See above

CATEGORIES OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY
A. Pipe fittings, Including couplings, tees, elbows, Yas, plug, unions, pipe caps, or reducers
B. Flanges: all flanges
C. Valves: all line valves
D. Expansion joints, flexible connections, and hose assemblies: all types
E. Strainers, filters, separators, and steam traps
F. Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters
G. Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs
H. Pressure retaining components that do not fall into one of the above categories
I. Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting AECB or ASME requirements)

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT

KROHNE Honeywell

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

See page 2
"Statutory Declaration Registration of fittings OPTIFLUX 5000 FL

A. VemaFlow May 2000 FL C/Y"

DECLARATION:

I, John van der Graaf (see note), employed by KROHNE Altemeter and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by my knowledge as being suitable for the purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer:

Declared before me at Dordrecht
This 30th day of December AD 2009
Commissioner of Oaths or Notary Public: (sign)

This space for Regulatory Authority
This registration must be revalidated after ten (10) years from date of issuance.

CRN: 0F13998.5
FID#: 2015

Notes:
1. All fittings shall be registered in the name of the Manufacturer.
2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.
**UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS**

**NEW BRUNSWICK**  **NOVA SCOTIA**  **PRINCE EDWARD ISLAND**  **NEWFOUNDLAND AND LABRADOR**

**NUNAVUT**  **YUKON**  **NORTHWEST TERRITORIES**

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<th>MANUFACTURERS NAME:</th>
<th>Krohne Altimeter</th>
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<td>Kerkeplaat 12, Dordrecht, the Netherlands</td>
</tr>
<tr>
<td>PLANT LOCATIONS:</td>
<td>See above</td>
</tr>
</tbody>
</table>

**CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY**

- A Pipe fittings, including couplings, lees, elbows, Ys, plugs, unions, pipe caps, or reducers
- B Flanges: all flanges
- C Valves: all line valves
- D Expansion joints, flexible connections, and hose assemblies: all types
- E Strainers, filters, separators, and steam traps
- F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters
- G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs
- H Pressure retaining components that do not fall into one of the above categories
- N Nuclear components: Class 1 ❑ Class 2 ❑ Class 3 ❑, (Meeting AECB or ASME requirements)

**SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT**

![Krohne Honeywell](image)

**LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:**

See page 2

"Statutory Declaration Registration of fittings OPTIFLUX 5000 FL

&

VersaFlow Mag 2000 FL C/F"

**DECLARATION:**

I, John van der Graaf [(see note 3) employed by KROHNE Altimeter] and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by LORADA [most] as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: [Signature]

Declared before me at: [Signature] 

This 30th day of December AD 2009

Commissioner of Oaths or Notary Public: [Signature]

This space for Regulatory Authority use

This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: 0F13998.5

FID#: 2015

Notes:

1. All fittings shall be registered in the name of the Manufacturer.
2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.
KROHNE Honeywell

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

See page 2

'Statutory Declaration Registration of fittings OPTIFLUX 5000 FL

&

VersaFlow Mag  2000 FL C/F'

DECLARATION:

I John van der Graaf (see note 3) employed by KROHNE Altermeter and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product, for which registration is sought. The dimensions, materials of construction, pressure, temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by LOBA, as being suitable for the purpose and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: ____________________________

Declared before me at: ____________________________

This 30th day of __________________ AD 2009

Commissioner of Oaths or Notary Public: (sign) ____________________________

(And official seal to the right)

This space for Regulatory Authority use

This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: 0F13998.5

FID#: 2015

Notes:
1. All fittings shall be registered in the name of the Manufacturer.
2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.
October 15, 2010

RICK LOISELLE
KROHNE ALTOMETER
7 DEARBORN ROAD
PEABODY MA  01960
US

Service Request Type.:  BPV-National BC
Service Request No.:  432508
Your Reference No.:  CAT F FITTING- OPTIFLUX 5000

Dear RICK LOISELLE,

Please find enclosed the original response from BC, registered under the CRN No.: 0F13998.51.

As all jurisdicational fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly. However, once your design has been successfully registered in all of the requested jurisdictions, you may receive an invoice from TSSA for any outstanding jurisdicational fees.

Should you have any questions or require further assistance, I will be happy to assist you. For general enquiries, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Tanya Francis
Administrative Assistant_ BPV Engineering
Tel. :  416-734-3423
Fax :  416-231-6183
Email : tfrancis@tssa.org
Statutory Declaration Registration of Fittings
OPTIFLUX 5000 FL and VersaFlow Mag 2000 FL

Page 2

Revision 3

On behalf of KROHNE Altimeter we are applying for an CRN Design Registration for our magnetic inductive flow meters OPTIFLUX 5x00 FL series as well as for Honeywell’s VersaFlow Mag 2000 FL series as described within. The OPTIFLUX flow meters will be equipped with the KROHNE Logo, the VersaFlow Mag flow meters will be equipped with the Honeywell Logo.

Product model names to be registered include:
- OPTIFLUX 5300FL/C = TWM 9000 C + VersaFlow Mag 2000 FL/C
- OPTIFLUX 5300FL/F = TWM 9000 F + VersaFlow Mag 2000 FL/F
- OPTIFLUX 5100FL/C = TWM 1000 C + VersaFlow Mag 2000 FL/C
- OPTIFLUX 5100FL/F = TWM 1000 F + VersaFlow Mag 2000 FL/F
- OPTIFLUX 5000FL/F = VersaFlow Mag 2000 FL/F

For above listed models names, we are applying for Flanged type of fitting for sizes:

- \(\frac{1}{2}\)", 2", 3", Full rating 300 LBS.
- 1" 1.5", 2", 3", 4", Full rating 150 LBS flanges
- 6", 8" 150 LBS flanges, MWP 10 bar
- 10" 150 LBS flanges, MWP 6 Bar.

Design standard, stress calculation and all materials for all parts including Tube, wall thickness etc. used to manufacture VersaFlow Mag 2000 FL are identical to the OPTIFLUX 5300 FL, OPTIFLUX 5100 FL and OPTIFLUX 5000 FL.

Maximum Working pressures/ Temperatures/ Sizes/ Class are also identical between these two models.

The only difference between the VersaFlow and the OPTIFLUX are as follows:

1. Model name number on the name plate will be VersaFlow Mag 2000FL.
2. Paint scheme
3. The trade name will be Honeywell on the VersaFlow Mag product name plate.

Both Product model series are manufactured by the same KROHNE manufacturing facility. The reason for multiple Product names is that the flow-tube can be configured with different electronic signal converters mounted on top of the flow-tube.

By including all product label names in our CRN, the local inspector will not be confused when inspecting a meter and the corresponding CRN document. Each letter of these product names are defined: F = Field, signal converter remotely connected by electrode/coil cable to flow-tube; C = Compact, signal converter attached directly to flow-tube.

The Ceramic flow tubes are hydrostatically tested (Third party TUV). The allowable working pressure is determined as 1/10 of the witnessed hydrostatical test pressure.

Attachments
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2. Flow tube DN 25 draw. 33158111E
3. Flow tube DN 40 draw. 33158112D
4. Flow tube DN 50 draw. 33158113D
5. Flow tube DN 80 draw. FZ 3315811400E
6. Flow tube DN 100 draw. 33158115D
7. Flow tube DN 150 draw. 20599602H
8. Flow tube DN 200 draw. 20599702H
9. Flow tube DN 250 draw. 20599802I
10. GA Draw. DN \(\frac{1}{2}\) “ 150 lbs 73097516
11. GA Draw. DN 1” 150 lbs 73097510
12. GA Draw. DN 1.5" 150 lbs 73097511
13. GA Draw. DN 2" 150 lbs 73097509
14. GA Draw. DN 3" 150 lbs 73097508
15. GA Draw. DN 4" 150 lbs 73097505
16. GA Draw. DN 6" 150 lbs 73030463A
17. GA Draw. DN 8” 150 lbs 73030461A
18. GA Draw. DN 10” 150 lbs 73030466.
19. GA Draw. DN ½ “ 300 lbs 73097516
20. GA Draw. DN 1” 300 lbs 73097524
21. GA Draw. DN 2” 300 lbs 73097525
22. GA Draw. DN 3” 300 lbs 73097526
23. Flange DN 1” 150 lbs 33158001A
24. Flange DN 1.5” 150 lbs 33158002A.
25. Flange DN 2” 150 lbs 33158003A
26. Flange DN 3” 150 lbs 33158004A
27. Flange DN 4” 150 lbs 33158005A
28. Flange DN 6” 150 lbs 30705000T
29. Flange DN 8” 150 lbs 30705100T
30. Flange DN 10” 150 lbs.30705201T
31. Flange DN ½ “ 300 lbs 33158010
32. Flange DN 1” 300 lbs 33158011
33. Flange DN 2” 300 lbs 33158013
34. Flange DN 3” 300 lbs 33158014
35. Housing DN 15 draw. 33158201
36. Housing DN 25 draw. 33158210A
37. Housing DN 40 draw. 33158211A
38. Housing DN 50 draw. 33158204A
39. Housing DN 80 draw. 33158212A
40. iHousing DN 100 draw. 33158206A
41. iHousing DN 150 draw. 3071220095K
42. iHousing DN 200 draw. 3071220095K
43. Housing DN 250 draw. 3071220095 K
44. ISO 9001_2008 KROHNE Alrometer certificate
45. KROHNE Alrometer Quality manual.
46. CRN Witnessing report ceramic tubes.

End of page 3.
Attn: TANYA FRANCIS
Re: Application for Design Registration

The design, as detailed in your, TSSA Service Request No: 432508, for a Fitting is accepted for registration as follows:

Registered To: KROHNE ALTOMETER
CRN: 0F13998.51

Drawing #: Various Drawings

Conditions of Registration:
1. See attachment for CRN scope.

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Fee for reviewing your design:

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<td>$21.60</td>
</tr>
<tr>
<td>$201.60</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

An invoice for $201.60 will follow.
Contact me if you have any questions.

ROMEO TUAZON
(778) 396-2031
Romeo.Tuazon@safetyauthority.ca
Design Engineer

CC: