UFM 530 HT CRN Approval

- 4” 150lbs alloy625
- 6” 900lbs ASTM A105N
- 4” 300lbs
- 6” 1500 lbs
- 6” 1500 lbs – A312+A182
February 05, 2009

Cor Schellaars  
KROHNE-ALTOMETER  
KERKEPLAAT 12  
DORDRECHT, NETHERLANDS, 3313 LC

Dear Cor Schellaars,

The drawings, specifications and/or information received on October 07, 2008 are accepted for registration as follows:

CRN : 0F04725.2  
Accepted on: February 05, 2009  
Tracking No. : 2008-07395  
Expiry Date: April 18, 2015  
Reg Type : Addition to Acc. Fitting  
Drawing No. : UFM 530 F HT DN 4 INCH - 150 LB As Noted  
Fitting Desc: 4" 150 LB FLOW METER

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

Material of construction: B444 UNS N06625 and B564 UNS N06625.  
Design pressure: 20 bar @ 38 degree C, 5 bar @ 440 degree C.

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
STATUTORY DECLARATION
Registration of Fittings

I, Cor Schellaars, Chief engineer,

(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)
of KROhne Altometer
(name of manufacturer)
located at Kerkeplaat 12, Dordrecht, the Netherlands
(plant address)
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) UFM 530

In support of this application, the following information, calculations and/or test data are attached:

See page 2 "Statutory Declaration Registration of fittings UFM 530 F HT DN 4 inch 150 LBS

DECLARED before me at Sliedrecht this 2nd day of October, 2008
(print)
(sign) (A Commissioner for Oaths)
(Signature of Applicant)

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: 0 F 0 4 7 2 5 2

Date Registered: FEB 0 5 2009

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
UTM 530 F HT DN4" 150lbs

To this statutory declaration belongs the following documentation:

1. Design registration Application form (AB-31 00/10)
2. Lloyds Register Quality Assurance: "Certificate of Approval"
3. Quality Assurance manual
4. Catalogue " UFM 530 HT "
5. Draw. 83121708 " Part list UFM 500/HT/DB/F/CSA, DN4"- 150lbs "
6. Draw. 23150884A " Messrohr Zus. Alto – HT DN 100 Ex "
7. Draw. 33166291 " Flange DN4" ASME B16.5 150 LBS "
8. Draw. 33166586 " Pipe 114.3 x 6.02 x 658 "
9. Draw. 33099902A " Plate, 123x76x3 "
10. Draw. 33022950E " Plate with text HT "
11. Welding plan 4789
12. WPS HHHTM 01 ( incl. PQR/WPQ )
13. WPS HBBTM 03 ( incl. PQR/WPQ )
14. WPS HWHTM 01 ( incl. PQR/WPQ )
15. WPS HBBTM 02 ( incl. PQR/WPQ )
16. Draw. 83077717 " Dimensions UFS 500 HT/DB/F/CSA"
17. Stress calculation no. 7778
January 22, 2010

Cor Schellaars
KROHNE-ALTMETER
KERKEPLAAT 12
DORDRECHT, NETHERLANDS, 3313 LC

Dear Cor Schellaars,

The design submission, tracking number 2010-00018, originally received on January 05, 2010 was surveyed and accepted for registration as follows:

CRN : 0F04725.2
Reg Type : Addition to Acc. Fitting
Drawing No. : 83121721,23196931,& 73077784 Rev -
Fitting Desc : ULTRASONIC FLOWMETER UFM530F HT 6" 900 LB

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

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.

Design pressure: 153.2 bar @ 38 degree C and 116.8 bar @ 320 degree C.

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

Sincerely,

[Signature]

FOK, PO, P. Eng.
Design Survey Engineer
STATUTORY DECLARATION
Registration of Fittings

I, Cor Schellaars, Chief engineer,

(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)
of Krohne Altimeter
(name of manufacturer)
located at Kerkeplaat 12, Dordrecht, the Netherlands
(plant address)
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) UFM 530

In support of this application, the following information, calculations and/or test data are attached:
See page 2 "Statutory Declaration Registration of fittings UFM 530 F HT DN 6 inch 900 LBS"

DECLARED before me at Sliedrecht in the of
this 30th day of December (Month) (Year) 2009
(print)
(sign) [Signature of 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 04725-2  
(For the Administrator/Chief Inspector of Alberta) 
Date Registered: JAN 22 2010 
Expiry Date: April 18, 2015
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
UFM 530 F HT DN6" - 900lbs RTJ

(Page 2.)

To this statutory declaration belongs the following documentation:

1. Design registration Application form (AB-31 00/10)
2. Lloyds Register Quality Assurance: "Certificate of Approval".
4. Technical Datasheet "UFM 530 HT" 4000210602 R02.
5. Draw. 83121721 "Parts list UFS 500 F/HT/DB/CSA, DN6" - 900lbs ".
6. Draw. 23196931 "Flow tube Assembly UFM/HT/Ex, 6" .
7. Draw. 33155943 "Flange DN 6" ANSI B16.5 900lbs, RTJ
8. Draw. 33170142 "Flange DN 1 ½" ASME B16.5 1500lbs, RTJ
9. Draw. 33169674 "Pipe 168.3 x 18.3 x 718 ".
10. Draw. 33099902A "Plate 123 x 78 x 3 ".
11. Draw. 33022950H "Plate with text High Temperature ".
12. Draw. 33169178 "Transducer pocket UFM500 HT DN150 ".
13. Draw. 33169179 "Transducer pocket UFM500 HT DN150 ".
14. Draw. 33114603 "Earth block 25 x 15 x 15 ".
15. Welding plan 5169
16. WPS ZZBTM03 (incl. PQR/WPQ)
17. WPS ZZBCM13 (incl. PQR/WPQ)
18. WPS ZWBTM04 (incl. PQR/WPQ)
19. Statement on the use of WPS and welding plans
21. Stress calculation no. 8625
May 03, 2010

COR SCHELLAARS
KROHNE ALTOMETER
KERKEPLAAT 123313 LC DORDRECHT
DORDRECHT
NL

Service Request Type:  BPV-Fitting Registration
Service Request No.:  374176
Your Reference No.:  CAT F FITTING - FLOW METER UTM 530 F HT DN 4"-300 LBS

Dear COR SCHELLAARS,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission on April 26, 2010 has been reviewed and registered as follows:

CRN No.:  0F13835.5
Reference No.:  CAT F FITTING - FLOW METER UTM 530 F HT DN 4"-300 LBS
Main Design No.:  Flow Meter Model No. UTM 530 F HT DN 4"-300 LBS
Expiry Date:  May 03, 2020

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

A stamped copy of the approved registration and invoice for engineering services will be mailed to you shortly. Should you have any questions or require further assistance, however, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Mark Valcic P. Eng.
Engineer BPV
Tel.: 416-734-3494
Fax: 416-231-6183
Email: mvalcic@tssa.org
STATUTORY DECLARATION
Registration of Fittings

I, Cor Schellaars, Chief Engineer
of Krohne Altimeter

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, LRQA.

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 UFM 830 F HT DN 4" 300 LBS (drawings, calculations, test reports, etc.)

Declared before me at Sliedrecht in the of
the day of April AD 2010.

Commissioner for Oaths:

(Pринted name)

(Signature)

(Signature of Declarer)

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 accessible for registration in Category.

CRN: 0F13835.5
Registered by: Mark Valcic, P.Eng
Dated: May 3, 2010

NOTE: This registration expires on May 3, 2020
The design submission, tracking number 2010-04362, originally received on July 21, 2010 was surveyed and accepted for registration as follows:

CRN: 0F04725.2  
Reg Type: Addition to Acc. Fitting  
Drawing No.: PARTLIST 73082997 & 73082999 As Noted  
Fitting type: ULTRASONIC FLOWMETER FOR LIQUIDS

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

Scope of registration: UFM3030 XXT DN 16” 300lb and UFM530 F HT DN 6” 1500lb.  
Design condition per drawing 73064403 rev.D and 7373363.  
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.

If you have any question don’t hesitate to contact me by phone at (780) 433-0281 ext 3329 or fax (780) 437-7787 or e-mail Fok@absa.ca.

Sincerely,

FOK, PO, P. Eng.
STATUTORY DECLARATION
Registration of Fittings

I, Cor Schellaars, Chief Engineer,

(of company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)

of Krohne Altimeter

(name of manufacturer)

located at Kerkeplaat 12, Dordrecht, the Netherlands

(plant address)

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, 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 UFM 530 FT HT DN 6 inch 1500 LBS

DECLARED before me at Sliedrecht ___________ in the ________________ of ________________

this ___________ day of ________________, 2010 ____________________________

(print) (Month) (Year)

(Signature of Applicant)

Notaris te ____________

(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: 0 F 0 4 7 2 5 • 2

Date Registered: SEP 0 7 2010

(For the Administrator/Chief Inspector of Alberta)

Expiry Date: April 18, 2015

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

UFM 530 F / HT / DN 6" – 1500 Lbs RTJ

(Page 2.)

On behalf of KROHNE Altimeter we are applying for an CRN Approval on special flow meters of our Ultrasonic design type as described within.

Standard flow meters are already approved under CRN 0F04725 Fittings Design registration. The reason for this new approval is that these flow meters are out of the scope of the original approval based on XXT version and pressure rating.

Product model names to be registrated include:

- UFM 530 F / HT
- OPTISONIC 8000

The pressure containing/wetted parts for above mentioned model names are exactly the same. 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 or remote version)

To this statutory declaration belongs the following documentation:

1. Design registration Application form (AB-31 00/10)
2. Lloyd’s Register Quality Assurance: " Certificate of Approval ".
4. Technical Datasheet " 4000210602 – TD UFM 530 HT R02 en ".
5. Draw. 73032999 " Parts list UFS 500 F / HT DN 6" 1500 Lbs RTJ ".
6. Draw. 23156722 " Assembly drawing ".
7. Draw. 23158616 " Wave cond. Housing assy steam ".
8. Draw. 33137608 " Bush Ø 92.1 x 85 ".
9. Draw. 23158615 A " Wave conductor steam ".
10. Draw. 23198363 " Measuring tube ".
11. Draw. 33170907 " Pipe Ø 64 X Ø 43 L=255 mm ".
12. Draw. 33133110 A " Plate ".
13. Draw. 33170904 " Pipe 168.3 x 21.95 x 1648 ".
14. Draw. 33170848 " Flange DN 6"ASME B16.5 1500 LBS RTJ ".
15. Draw. 33157462 " Plate ".
16. Draw. 33114603 " Earth block 40 x 15 x 15 ".
17. Draw. 33157463 " Plate ".
18. Draw. 33145872 " Support plate ".
19. GA Drawing 73073363
20. Welding plan 2592
21. WPS WW8TM04 ( incl. PQR/WPQ )
22. Welding plan 5337
23. WPS WW9TM07 ( incl. PQR/WPQ )
24. WPS WW3MM11 ( incl. PQR/WPQ )
25. Statement on the use of WPS and welding plans
26. Stress calculation no. 09032
STATUTORY DECLARATION
Registration of Fittings

I, Cor Schellhaars, Chief Engineer

_of Krone Altimeter

located at Kerkeplaat 12, Dordrecht, the Netherlands

I hereby declare that the fittings listed hereunder, which are subject to the Safety Codes Act, comply with the requirements of 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

In support of this application, the following information, calculations and/or test data are attached:

See page 2 *Statutory Declaration Registration of fittings UFM 530 F HT DN 6 inch 1500 LBS Material ASTM A312 TP347H and ASTM A182 F347H*

DECLARATION

Declared by applicant at Sijdebrecht in the of

this the day of July, 2011

(print)

(sign)

Commissioner (translate)

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: OH12054.2

Date Registered: 01 FEB 2012

Expiry Date: 01 FEB 2022

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

UFM 530 F / HT / DN 6" ~ 1500 Lbs RTJ

(Page 2.)

On behalf of KROHNE Altometer we are applying for an CRN Approval on special flow meters of our Ultrasonic design type as described within.

Standard flow meters are already approved under CRN 0F04725 Fittings Design registration. The reason for this new approval is that these flow meters are out of the scope of the original approval based on XXT version and pressure rating.

Product model names to be registered include:
- UFM 530 F / HT
- OPTISONIC 8000

The pressure containing/wetted parts for above mentioned model names are exactly the same. 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 or remote version).

To this statutory declaration belongs the following documentation:

1. Design registration Application form (AB-31 00/10)
2. Lloyds Register Quality Assurance: "Certificate of Approval".
4. Technical Datasheet "4000210602 – TD UFM 530 HT R02 en".
5. Draw. 73121765 "Parts list UFS 500 F / HT DN 6" 1500 Lbs RTJ".
6. Draw. 23166722 "Assembly drawing".
7. Draw. 23158616 "Wave cond. Housing assy steam".
8. Draw. 33137608 "Bush Ø 92.1 x 85".
9. Draw. 23158615 C "Wave conductor steam".
10. Draw. 23198363 "Measuring tube".
11. Draw. 33171952 "Upper transducer pocket".
12. Draw. 33171953 "Lower transducer pocket".
13. Draw. 33172498 "Flange DN 2"ASME B16.5 1500 LBS LF".
14. Draw. 33163110 A "Plate".
15. Draw. 33172514 "Pipe 168.3 x 21.95 x 1648".
16. Draw. 33172497 "Flange DN 6"ASME B16.5 1500 LBS RTJ".
17. Draw. 33157462 "Plate".
18. Draw. 33114503 "Earth block 40 x 15 x 15".
19. Draw. 33157463 "Plate".
20. Draw. 33145872A "Support plate".
21. GA Drawing 73119993
22. Welding plan 2592A
23. WPS WWBM04 ( incl. PQR/WPQ )
24. Welding plan 5728
25. WPS WWBM07 ( incl. PQR/WPQ )
26. WPS WWBMM11 ( incl. PQR/WPQ )
27. Statement on the use of WPS and welding plans
28. Stress calculation no. 09723