



14th Floor, Centre Tower
3300 Bloor Street West
Toronto, Ontario
Canada M8X 2X4
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

October 28, 2011

MATT MCNAMARA
ARMSTRONG INTERNATIONAL
816 MAPLE ST
THREE RIVERS MI 49093
US

Service Request Type: BPV-Fitting Registration
Service Request No.: 642864
Your Reference No.: CAT H FITTING- PUMP TRAP

Dear MATT MCNAMARA,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission on August 10, 2011 has been reviewed and registered as follows:

CRN No.: 0H14859.5
Reference No.: CAT H FITTING- PUMP TRAP
Main Design No.: PT-3508/3512 REV A
Expiry Date: 28-Oct-2021

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

CRN Note: See attached "Part of CRN": for the scope.

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,

Charley Dong, P.Eng.

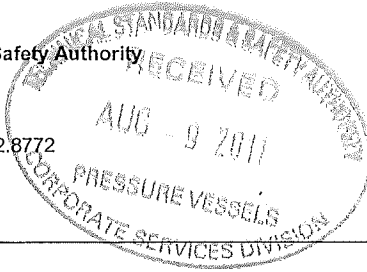
Tel.: 416-734-3436
Fax: 416-231-6183
Email: cdong@tssa.org

Gregory



Technical Standards and Safety Authority
14th Floor - Centre Tower
3300 Bloor Street West
Toronto, Ontario M8X 2X4
Customer Service: 1.877.682.8772
Fax: 416.231.6183

www.tssa.org



National Design Registration Application for a CRN

Technical Standards and Safety Act
Boilers and Pressure Vessels Regulation

INTAKE GROUP	
Date:	<u>642864 (Net)</u>
SR #:	<u>642866 (Net)</u>
Agent:	<u>642866 (Net)</u>

Date of Application (mm/dd/yyyy): 07/29/2011	<input type="checkbox"/> Expedited Service (please attached request form)
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Please indicate the type of design: Boiler Pressure Vessel Fitting

Existing CRN: _____ (if applicable)

Section A: Submitter Company Name: Armstrong International Inc. Address: 816 Maple St City/Town: Three Rivers Province/State: Michigan Postal/Zip Code: 49093 Country: USA Telephone: 269-279-3144 Fax: 269-278-6555 Contact Name: Matt McNamara E-mail: matt@armstronginternational.com Job No./Reference: Drawing/Catalog No.: PT-3508 & PT3512	Section B: Invoicee Company Name: Address: City/Town: Province/State: Postal/Zip Code: Country: Telephone: Fax: Contact Name: E-mail: Purchase Order No.: Acct/Cust No.: <u>A20308 C51692</u>	Same as: <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D
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Section C: Owner of Design/CRN Same as: <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> D Company Name: Address: City/Town: Province/State: Postal/Zip Code: Country: Telephone: Fax: Contact Name: E-mail: Acct/Cust No.:	Section D: Manufacturer Same as: <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C (If more then one please attach list) Company Name: Address: City/Town: Province/State: Postal/Zip Code: Country: Telephone: Fax: Contact Name: E-mail: Acct/Cust No.:
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Registration required in the following jurisdictions:

<input checked="" type="checkbox"/> Ontario	<input checked="" type="checkbox"/> Saskatchewan	<input checked="" type="checkbox"/> New Brunswick	<input checked="" type="checkbox"/> Newfoundland and Labrador
<input checked="" type="checkbox"/> British Columbia	<input checked="" type="checkbox"/> Manitoba	<input checked="" type="checkbox"/> Nova Scotia	<input checked="" type="checkbox"/> Yukon
<input checked="" type="checkbox"/> Alberta	<input checked="" type="checkbox"/> Quebec	<input checked="" type="checkbox"/> Prince Edward Island	<input checked="" type="checkbox"/> Northwest Territories
			<input checked="" type="checkbox"/> Nunavut

Deposit included: CDN \$600.00 - Ontario and up to 2 additional provinces CDN \$1,200.00 - Ontario and 3 or more additional provinces

Cheque No. 130200 Amount \$ 1,200.00

(Deposit to be applied to the incurred fees when all jurisdictions are complete – any charges over and above deposit amount will be invoiced at that time.)

Return mail address: A B C Optional: Courier Collect Courier name: _____

Account No.: _____

Signed: Matthew K. McNamara Date (mm/dd/yyyy): 08/01/11

Date: <u>Oct 28/11</u> (mm/dd/yyyy)	Reviewing Engineer: <u>Charley Dong</u>	CRN Issued: <u>0114859.5</u>
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TECHNICAL STANDARDS &
SAFETY AUTHORITY
14th Floor, Centre Tower
3300 Bloor Street West
Toronto, Ontario
Canada M8X 2X4

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below



STATUTORY DECLARATION

Registration of Fittings

I, Andy Schirk, QA Manager
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Armstrong International Inc
(Name of Manufacturer)

Located at 816 Maple St., Three Rivers, MI 49093 269-273-1415 269-278-6555
(Plant Address) (Telephone No.) (Fax No.)

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 ASME B31.3

(Title of recognized North American Standard)

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ 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 ISO9001:2008 which has been verified by the following authority, HSB Registration Services

The items covered by this declaration, for which I seek registration, are category H type fittings. In support of this application, the following information and/or test data are attached as follows:
drawings pt3500, tensile test reports, burst test report, calculation

(drawings, calculations, test reports, etc.)

Declared before me at Three Rivers in the County of St. Joseph
the 1st day of August AD 2011.

Commissioner for Oaths:
ROBERTA M. RYAN
Notary Public, St. Joseph County, MI
My Commission Expires Sept. 13, 2011
(Printed name)

Roberta M. Ryan
(Signature)

Andy Schirk
(Signature of Declarant)



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 H

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety Program

CRN: 0H14859.5 NOTE: SEE ATTACHED

REGISTERED

Registered by: Charley Dony 'PART OF CRN' FOR THE SCOPE

CRN: 0H14859.5

Dated: Oct. 28/11 CD ISSA

Signed: Charley Dony

NOTE: This registration expires on Oct. 28/21 Oct. 28/11

Date: Oct. 28/11

DIMENSIONS & DATA CERTIFIED FOR:

Representative: _____

Order: _____

Customer: _____

Order: _____

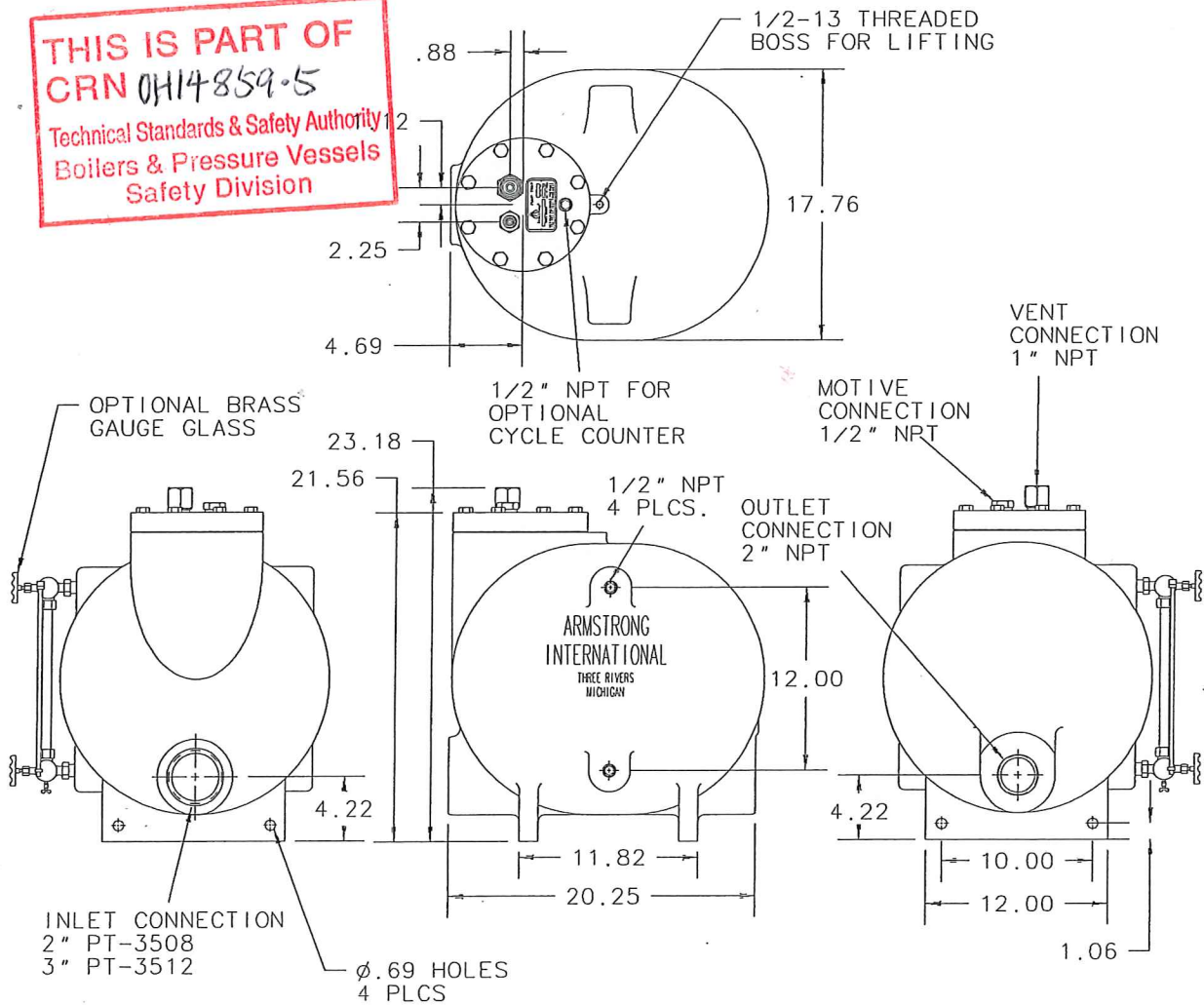
Project: _____

Requirements: _____


By: _____

Date: _____

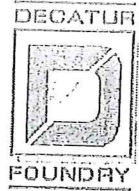
THIS IS PART OF
CRN 0H14859-5
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Division



(OVER)

 Armstrong Fluid Handling, Inc. Three Rivers, MI. 49093 Telephone (269) 279-3601 Fax (269) 279-3150 Posted on Armstrong's homepage www.armstrong-intl.com		
Product	CDF No.	Date
PUMP TRAP PT-3508/3512	CDF1041	9/13/99
		Rev. A

page 5 of 7
Dunn
MSB
5/5/11



DECATUR FOUNDRY, INC.
1745 NORTH ILLINOIS STREET
DECATUR, ILLINOIS 62520-4932

TELEPHONE: 217-429-5261 • FAX 217-425-2894
E-MAIL: terryyoung@decaturfoundry.com
WWW.decaturfoundry.com

GREY, DUCTILE
AND ALLOY
IRON CASTINGS

REPORT OF PHYSICAL & CHEMICAL TESTS

CUSTOMER	ARMSTRONG
PART NO	FH1616-2
DESCRIPTION	PUMP TRAP 3 X 2 (PT 3500)
CUST SPEC	ASTM A48 CL30
OUR SPEC	CL30
P.O. NO.	F541
INVOICE NO	00069339
PIECES	12
SHIP DATE	11/15/10
HEAT CODE	10S205

PHYSICAL TEST:

TENSILE STRENGTH P.S.I.	33,226
YIELD STRENGTH P.S.I.
ELONGATION % IN 2"
BHN	192

THIS IS PART OF
CRN DH14859.5
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Division

CHEMICAL TEST:

CARBON	3.48
SILICON	2.14
PHOSPHORUS	0.042
SULPHUR	0.078
MAGNESIUM	0.000
MANGANESE	0.610
TIN	0.029
COPPER	0.186
NICKEL	0.059

THIS IS TO CERTIFY THAT THE ABOVE CASTINGS CONFORM TO THE REQUIREMENTS OF THE ABOVE SPECIFICATIONS.

DECATUR FOUNDRY CASTINGS ARE: *PROUDLY MADE IN THE U.S.A.*

DECATUR FOUNDRY, INC

Chris Merritt