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April 10, 2017

Attention: Emma Smith

Email:aaone@rogers.com

**AAONE** 

PO BOX 91072

**BURNHAMTHORPE PO** 

TORONTO, ON M9C 5N5

The design submission, tracking number 2017-01760, originally received on March 22, 2017 was surveyed and accepted for registration as follows:

CRN:

0H11517.52

Accepted on: April 10, 2017

Reg Type:

Addition to Acc. Fitting

Expiry Date: March 21, 2027

Drawing No.: CDF1000,R.C;D214,R.H;D214A,R.L;D215,R.D;D215A,R.H

Fitting type: PUMP TRAPS CRN RENEWAL

Design registered in the name of : ARMSTRONG INTERNATIONAL INC

Description

**MAWP** 

**Design Temperature** 

**MDMT** 

Internal Pressure

689kPa

208 °C

-29 °C

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

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction is ASME B31.3.

This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.

This registration is valid only until the indicated expiry date and 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,

GRYNCHUK, MILLA





## STATUTORY DECLARATION Registration of Fittings

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.



Ι, _	Jonathan Hubbard ,	Armstrong	
	Quality Assurance Manager		
(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)			
of	of Armstrong International, Inc		
(name of manufacturer)			
located at 816 Maple St., Three Rivers, MI 49093 USA			
(plant address)			
do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)			
$\boxtimes$	comply with the requirements of ASME B31.1 & B3		
(title of recognized North American Standard) materials of construction, pressure/temperature ratings and identification marking of the fittings, or			
Ш	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,		
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, HSB Registration Services 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 category H			
In support of this application, the following information, calculations and/or test data are attached:			
See page 2 for listing			
See page 2 for nothing			
DECLARED before me at Three Rivers in the Country of St. Joseph			
15th Fi			
this Notary Public, St. Joseph Co., MMonth)  (Year)			
(prin	t) My Commission Expires Sept. 13, 2018	Jonathant Hillar	
(sign	John Roan	(Signature of Applicant)	
(8	(ACommissioner for Oaths)		
For	Office Use Only	00°	
	ne best of my knowledge and belief, the application meets th	e requirements of the Safety Codes Act	
B51, Clause 4.2, and is accepted for registration in Category			
Registration Number: 0H11517.52			
Ü	APD 10	(For the Administrator/Chief Inspector of Alberta)	
Date	Registered: 70 7017	Expiry Date:	



### Armstrong International, Inc.

816 Maple Street, Three Rivers, Michigan 49093 USA Phone: (269) 273-1415

Fax: (269) 278-6555

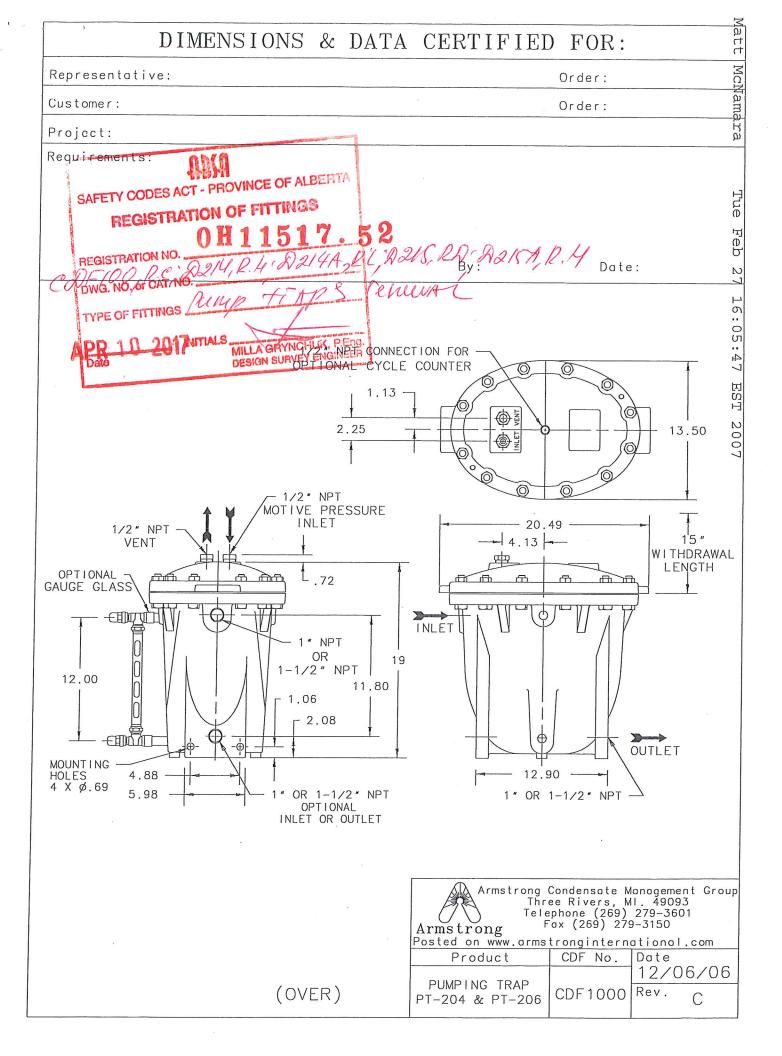
Page 2 (Continued from ABSA Statutory Declaration)

The scope of the registration and the design parameters of the pressure boundary, such as the pressure and temperature, of this CRN renewal submission are the same as the original approved CRN submission.

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

D214 body casting, D214A body machined, D215 cap casting, D215A cap machined, CDF1000 assembly, tensile test reports, burst test reports, burst calculation.





LIST OF MATERIALS		
NAME OF PART	MATERIAL	
Body and Cap	Cast Iron ASTM A48 Class 30	
Cap Gasket	Compressed Non-Asbestos	
Bolts	SA-449 STEEL	
Nuts	ASTM A194 Grade 2H	
Inlet Valve Assembly	Stainless Steel	
Vent Valve Assembly	Stainless Steel .	
Valve Assembly Washers	Zinc Plated Steel	
Plug	Cast Iron	
Mechanism Assembly (including float and springs)	Stainless Steel	

#### **OPTIONS**

- Check valves should be ordered as an option with the Pumping Trap. Inlet check valve is 1" NPT (1-1/2" NPT for PT-206) bronze swing check valve with teflon disc, Class 150 (minimum). Body material per ASTM B62. Outlet check valve is 1" NPT (1-1/2" NPT for PT-206) bronze lift check valve, Class 150 (minimum). Body material per ASTM B62.
- 2. Armored gauge glass. Maximum allowable pressure 250 psig at 425°F. This exceeds Pumping Trap design of 100 psig at 406°F.
- 3. Cycle counter.
- 4. Insulation jacket.

#### INSTALLATION NOTES

- The appropriate size and style check valves must be installed on the supply and discharge sides of the Pumping Trap for it to operate.
- A minimum 6" vertical filling head is recommended from the equipment drain point to the top of the pump cap.
- 3. Liquid flowing from the equipment being drained must be stored during the pump's discharge cycle. A liquid reservoir or vented receiver should be installed in a horizontal plane to prevent flooding of equipment.

