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Rev.	Date
Orig	1/3/13

CRN REGISTRATION FILE FOR #0H2915.5CR3

PREPARED BY:	RT Gula, Product Design Engineer	DATE	1/9/13
APPROVED BY:	S Kroon, Sr. Project Engineer	DATE	1/10/13
	G.J. Boyce, Quality Assurance Manager	DATE	1/10/13
	RAC for J Lindstrom, Product Mktg Engr	DATE	1/10/13
	M Valachos, Manager Sales & Eng	DATE	1/10/13



	REVISION RECORD				
Revision	Affected Paragraphs	Brief Description of Revision	Date	Approval Signature	
Orig.	All	Original Release per E.O. QP-13601	1/3/13	RT Gula	



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1.0 Introduction / Purpose:

Conax's CRN Registration Number 0H2915.5CR2 (Revision 2) expired in August 2012. This registration number was valid for ALL Canadian Provinces. During the renewal process for 0H2915, Reference [2.1] was submitted to the Canadian Technical Standards & Safety Authority (TSSA) of Ontario to provide the necessary technical justifications to support approval of a 10-year renewal in ALL provinces. As part of the renewal effort, no new fitting Part Numbers were proposed to be added however new material options were recommended to be added based upon Reference [2.1] technical justifications. Previously only 304, 304L, 316, and 316L SST materials were allowed.

All thirteen (13) Canadian Provinces have granted approval of the 10-year renewal for 0H2915. This document provides a collection of the "certified" paperwork from each Canadian Province which essentially grants approval of CRN Registration Number 0H2915.5CR3 (Revision 3) which will expire on August 2, 2022. Additionally, this document also summarizes the fitting Part Numbers and Material Options covered under CRN 0H2915.5CR3. All applicable documentation (i.e., drawings, catalogs, and laser marking programs) will need to be updated to reflect use of the new material options allowed and the new 0H2915.5CR3 file number.

2.0 Reference Documents:

2.1 Conax TSD 59.006 "CRN Registration Renewal Support Document"

3.0 CRN #0H2915.5CR3 (Revision 3) Requirements:

Consult Reference [2.1] for additional information and technical support.

3.1 Fitting Part Numbers Covered:

Table 1 identifies the fittings covered under CRN #0H2915.5CR3 (Revision 3). These are the same fitting part numbers covered under CRN #0H2915.5CR2 (Revision 2).

3.2 CRN Pressure Ratings:

Table 2 identifies the allowable CRN Pressure Ratings for each fitting based upon the Temperature Range and fitting's NPT Thread Size. These are the same ratings previously covered under #0H2915.5CR2 (Revision 2).

3.3 Allowable Material Options:

Table 3 identifies the material options allowed under CRN #0H2915.5CR3. Previously, CRN #0H2915.5CR2 only allowed fitting bodies to be constructed out of 304, 304L, 316, or 316L SST material per ASTM A479 requirements.



Table 1: Fitting Part Numbers covered under CRN Registration File #0H2915.5CR3

Item	Fitting Part Number (1)	Fitting Description	NPT Fitting Sizes Allowed
1	117-XX-ZZZZCRN	EG-750(CRN)	1-1/2"
2	258-XX-ZZZZCRN	MIC(CRN)	1/16"
3	327-XX-ZZZZCRN	MPG(CRN)	1/8"
4	1448-XX-ZZZZCRN	TG8(CRN), MHC5(CRN)	1/2", 3/4", 1"
5	1896-XX-ZZZZCRN	MHM5(CRN), SPG150(CRN), DSPG(CRN), EG37(CRN), EG50(CRN)	3/4", 1"
6	2447-XX-ZZZZCRN	MTG(CRN), MHC1(CRN)	1/8"
7	5936-XX-ZZZZCRN	EG09(CRN)	1/8"
8	5971-XX-ZZZZCRN	TG14(CRN), MHC4(CRN)	1/4", 1/2"
9	5980-XX-ZZZZCRN	MHM4(CRN), SPG100(CRN), DSPG100(CRN), EG25(CRN), EG31(CRN)	1/2"
10	6032-XX-ZZZZCRN	TG20(CRN), TG24(CRN), MHC2(CRN)	1/4", 3/8"
11	6036-XX-ZZZZCRN	MHM2(CRN), EG12(CRN), EG18(CRN)	1/4", 3/8"
12	6470-XX-ZZZZCRN	PG2(CRN)	1/8", 1/4", 3/8"
13	6477-XX-ZZZZCRN	PL5(CRN)	3/4", 1"
14	6570-XX-ZZZZCRN	PG4(CRN)	1/4", 3/8", 1/2"
15	6574-XX-ZZZZCRN	PG5(CRN)	1/2", 3/4", 1"
16	317729-XX-ZZZZCRN	PG6(CRN)	1"
17	319098-XX-ZZZZCRN	PG7(CRN)	1-1/4"
18	31-0129-XX-ZZZZCRN	MHM6(CRN)	1"

⁽¹⁾ P/N Designation: XX = Numeric Dash Variation (to control fitting variations such as mounting thread and bore size)

ZZZZ = Conax Material Option Code per Table 3

Table 2: CRN Registration File #0H2915.5CR3 Pressure Ratings

Temperature	NPT Thread Size			
Range (T)	<u><</u> ¾" NPT	1" NPT	1-¼", 1-½" NPT	
T < 220°F	2500 psi	2500 psi	2500 psi	
220° < T <u><</u> 850°F	1500 psi	1200 psi	600 psi	
850°F < T	Not Allowed	Not Allowed	Not Allowed	



Table 3: Fitting Material Options covered under CRN Registration File #0H2915.5CR3

		1			
Item	Material	Conax Material Modifier Code	UNS Number	ASTM Material Standard	Minimum Required Yield Strength (2)
1	Monel 400	M400	N04400	B164	25 ksi
2	Monel 405	M405	N04405	B 164	25 ksi
3	Hastelloy X	HX	N06002	B 572	35 ksi
4	Inconel 600	1600	N06600	B 166	35 ksi
5	Inconel 625	1625	N06625	B 446	60 ksi
6	Incoloy 800	INY800	N08800	B 408	30 ksi
7	Hastelloy C276	HC276	N10276	B 574	41 ksi
8	304H SST	S304H	S30409	A 479	30 ksi
9	310S SST	S310S	S31008	A 479	30 ksi
10	310H SST	S310H	S31009	A 479	30 ksi
11	316L SST (NACE)	NC316L	S31603	A 479	25 ksi
12	316 SST (NACE)	NC316	S31600	A 479	30 ksi
13	321 SST	S321	S32100	A 479	30 ksi
14	321H SST	S321H	S32109	A 479	30 ksi
15	347 SST	S347	S34700	A 479	30 ksi
16 ⁽¹⁾	304 SST	S304	S30400	A 479	30 ksi
17 ⁽¹⁾	304L SST	S304L	S30403	A 479	25 ksi
18 ⁽¹⁾	316 SST	S316	S31600	A 479	30 ksi
19 ⁽¹⁾	316L SST	S316L	S31603	A 479	25 ksi

⁽¹⁾ Previously approved under CRN #0H2915.5CR2 (Revision 2)(2) Per 2010 ASME B&PV Code, Section II, Part D, Table Y-1

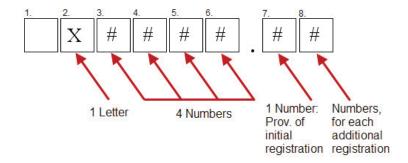


4.0 CRN Marking Requirements:

4.1 CRN Number Designation:

A Canadian Registration Number (CRN) for a boiler or pressure vessel is defined by CSA B51. It may consist of up to six (6) characters to the left of a decimal point followed by eight (8) or more characters to the right of the decimal point as depicted below.

For Conax Fittings, place holder #1 is the digit 0 (zero) and place holder #2 is the letter H. Place holders #3 - #6 represent a 4 digit sequential number unique to the registration file (e.g. 2915 for Conax Fittings). Place holder #7 is the Province code where the initial registration was filed (i.e., see below 5 = Ontario). Place holder #8 and beyond represent additional provinces where the registration is filed. If the registration is filed in all 13 provinces, place holder #8 can be listed as the letter "C" in lieu of listing each Province code. The expression "R1", "R2", "R3", etc at the end of the registration number signifies the revision level (i.e., "R3" would equate to Revision 3).



In accordance with CSA B51 the following codes are used for each province:

1 - British Columbia

2 - Alberta *

3 - Saskatchewan

4 – Manitoba

5 – Ontario

6 - Quebec

7 - New Brunswick

8 - Nova Scotia

9 - Prince Edward Island

0 - Newfoundland & Labrador

T - Northwest Territories

Y - Yukon Territory

N - Nunavut





4.2 CRN #0H2915.5CR3 Certification Packages:

Appendices A - F contain copies of the certification paperwork from each province granting approval of 0H2915.5CR3. The table below identifies the specific Appendix where the certification paperwork can be found for each province(s). For each province this entails copies of the signed and stamped "Statutory Declaration" except for the Province of British Columbia. Through email correspondence with a representative from British Columbia's Safety Authority contained in Appendix G, the Province of British Columbia does not stamp and sign the Statutory Declaration. Therefore Appendix B only contains a copy of their approval letter for the renewal effort.

Appendix	Province (s)
Α	Ontario
В	British Columbia
С	Alberta
D	Manitoba
Е	Prince Edward Island, Nova Scotia, New Brunswick, Newfoundland & Labrador, Yukon Territory, Northwest Territory, Nunavut
F	Quebec and Saskatchewan

4.3 CRN Product Marking Requirements for Conax Fittings:

With registration files provided from each of the thirteen (13) Provinces, use of the 0H2915.5CR3 number is considered acceptable. It is noted that per Appendix F, the registration for the Provinces of Quebec and Saskatchewan was conducted by CSA International and the prefix "CSA" should be added to the beginning of the CRN number as CSA-0H2915.56R3. However, when using the letter "C" to denote registration in all provinces, it is not required to use the prefix "CSA" as confirmed through email correspondence with representatives from CSA and ANRIC as contained in Appendix H. As such, Conax fittings identified in Table 1 shall be marked as follows:

CONAX TECHNOLOGIES

xxxx PER ASTM yyyy

CRN NO. 0H2915.5CR3

where:

xxxx = Material Description Code per Table 3 yyyy = ASTM Specification per Table 3

Marking Examples:

For 316 SST:

CONAX TECHNOLOGIES S316 PER ASTM B479 CRN NO. 0H2915.5CR3 For Hastelloy C276:

CONAX TECHNOLOGIES HC276 PER ASTM B574 CRN NO. 0H2915.5CR3

END OF DOCUMENT





TSSA	From:	Renzo Pupulin
Conax Technologies LLC	Phone:	416 - 747- 2345
4	Location:	Toronto
ANR-2448	Date:	September 13, 2012
	Conax Technologies LLC	Conax Technologies LLC Phone: 4 Location:

Your File: 855818

Subject: Request for Design Registration

Dear Ms. Francis,

CSA has reviewed the documentation submitted by TSSA on behalf of Conax Technologies LLC These fittings have been registered by CSA for the Province of Québec. In accordance with an agreement between CSA, the Provinces of Québec and Saskatchewan; this registration is recognized by Quebec and Saskatchewan. These fittings are acceptable for use in these Provinces.

The letters CSA will be applied as a prefix to the CRN indicate which fittings have been registered in this manner. A copy of the stamped Statutory Declaration is attached.

The CRN is CSA-0H2915.56R3.

The cost for this service is \$ 760.00 plus HST.

A copy of the Statutory Declaration with an original stamp affixed will be forwarded to you along with our invoice by regular mail.

Yours truly

Renzo Pupulin C.E.T. Product Group Manager Gas Appliances and Accessories renzo.pupulin@csa-international.org





PV 09553 (06/04)

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 DECLARA Registration of Fittings	ATION			
, Robert Gula (Product Design Engineer)				
(Name and Position, e.g. President, Plant Manager, Chief El	ngineer)			
of Conax TEchnologies LLC				
(Name of Manufecturer)				
Located at 2300 Walden Avenue; Buffalo NY 14225	716-684-4501 x385	716-684-7433		
	Telephone No.)	(Fax No.)		
do solemnly declare that the fittings listed hereunder, which are subject to the To and Pressure Vessels Regulation, comply with all of the requirements of	achnical Standards	and Safety Act, Boilers		
(Title of recognized North American Standard)				
which specifies the dimensions, materials of construction, pressure/temperature ratings	, identification marking t	the fittings and service;		
or are not covered by the provisions of a recognized North American standard a Proof Pressure Test as supported by the attached data which ide pressure/temperature ratings and the basis for such ratings, the marking of the fitt	entifies the dimensions	, material of construction.		
I further declare that the manufacture of these fittings is controlled by a quality system members which has been verified by the following authority, SGS	eeting the requirement	ts of ISO 9001:2008		
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: Conax TSD Report #59.006 Rev. Orig				
(drawings, calculations, test reports, etc.)				
Declared before me at	£ of	My		
the 37th day of Oftel AD 2012. Commissioner for Oaths:	PATRICE MARIO Notary Public, Sta Qualified in Nia	N KOTANSKY tte of New York gara County gres July 31, 2013		
(Printed name)	,	ires July 31		
Tatkise marion Josansky 1662	(Signature of Dec	clarer)		
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	CSA IN	TERNATIONAL		
CRN: CSA - OH 2915.56 R3	1	-0H2915.56 <i>R</i> 3		
Registered by: A . BANWATT		brow		
Dated: SEP · 12 · 2012	Date: SEP	12. 2012		
NOTE: This registration expires on Qua 2 2022	178 Rexdale Blv	d., Toronto, ON M9W 1R3		





Saskatchewan

1704corum services 330 - 1855 Victoria Avenu Region, Edekalchewan SUP SV 7

187-4509

April 23, 1998

Re: Fittings Registration

The Province of Saskatchewan will be participating with Quebec, Manitoba and the Canadian Standards Association (CSA) in a pilot project for the registration of fittings. We will recognize registrations done by CSA and accept such fittings for use in Saskatchewan.

The letters CSA will be applied as a prefix to the CRN to indicate which fittings have been registered in this manner. I would appreciate if you could inform your clients of this additional marking requirement.

You may also inform your clients that fittings registered by CSA are accepted for use in Sastratchewan.

N. Surteen P. Eng. Executive Director

Yours truly