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www.tssa.org

November 8, 2023

ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6
CANADA

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 14043225
Your Reference No.: R-1677-2
Registered to: ISOTUBI, S.L.

Dear SCOTT ISLIP,

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

CRN : 0A24894.5
Main Design No.: STAINLESS STEEL PRESS SYSTEM FITTINGS - SCOPE OF CRN REGISTRATION & WORLDWIDE LOCATIONS APPENDIX
Expiry Date: Nov 08, 2033

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

The stamped copy of the approved registration and the invoice are mailed separately (There will be no hard copies for electronic submissions). Should you have any questions or require further assistance, 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,

Wendy Du
Engineer, BPV
Tel. : +1 416-734-3566
Email : wdu@tssa.org



N14509
 Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 www.tssa.org

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, MERITXELL ARNEDO, CEO
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of ISOTUBI, S.L.
(Name of Manufacturer)

Located at SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX
(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

(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 ASME B31.3, B31.1, B31.9 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 9001:2015 which has been verified by the following authority, TUV.

The items covered by this declaration, for which I seek registration, are category A-PRESS SYSTEM-FITTINGS type fittings. In support of this application, the following information and/or test data are attached as follows:
SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS
(drawings, calculations, test reports, etc.)

Declared before me at _____ in the _____ of _____
 the _____ day of _____ AD 20_____.

Commissioner for Oaths:

(Printed 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 accepted for registration in Category _____.

CRN: _____

Registered by: _____

Dated: _____

Technical Standards and Safety Authority Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0A24894.5

Signed: 

Date: November 8, 2023.

NOTE: This registration expires on: Nov. 08, 2033

DESIGN CODES: ASME B31.3 & B31.1.
 STAINLESS STEEL PRESS SYSTEM FITTINGS - SEE SCOPE OF CRN REGISTRATION & WORLDWIDE LOCATIONS APPENDIX

**Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.*

I, **ALMUDENA CASTRO-GIRONA MARTÍNEZ**, Notary at **CASTELLBISBAL**, that belongs to the Collage Of Notaries Of Catalonia certify that the extended signature on the back of this document, belongs to **DOÑA MERITXELL ARNEDO SANTAMARIA** with **D.N.I y N.I.F.** number **44.982.160-W**, who has signed in my presence. This document is written in English, language that I the Notary, undestand and it will producte its effects in Canada. This document has been incorporated to the Public deed number 459 once the signature has been certified, in according to Art 207 Notarial Reglamentary.

Number nº 120 in the **Second Section** of my indicator book

In **CASTELLBISBAL** a 06 of June 2023

YO, **ALMUDENA CASTRO-GIRONA MARTÍNEZ**, Notario del Ilustre Colegio de **CATALUNYA** con residencia en **CASTELLBISBAL**, DOY FE: De que la firma extendida en el reverso del folio que antecede escrito en lengua inglesa, que yo el Notario conozco, para que surta efectos en Canada, corresponde a **DON ANTONIO-HUGO VICENS ARASANZ** con **D.N.I y N.I.F.** número **46.237.942-F**, por haber sido puesta en mi presencia. Documento que una vez legitimado se incorporará fotocopia a la matriz número 459 según el nº 2 del artículo 207 del Reglamento Notarial.

Asiento nº 120 de la Sección **Segunda** del Libro Indicador.

En **CASTELLBISBAL** a seis de junio de dos mil veintitrés.



A352506110



0275508905



HF7306966

11/2022



LEGALIZACIÓN.

Asiento nº.2193/2023 libro registro

DON JOAN CARLES FARRÉS USTRELL, Notario del Ilustre Colegio --
 Notarial de Cataluña, actuando como Delegado del Decano a estos
 efectos, legalizo el signo, firma y rúbrica que anteceden del
 notario de Castellbisbal, DOÑA ALMUDENA ELENA CASTRO-GIRONA -----
 MARTINEZ, puestos al pie de legitimación de firma de don -----
 Antonio-Hugo Vicens Arasanz, en documento de declaración, en ----
 relación a ISOTUBI, S.L., conforme Acta número 459/2023, de 6 de
 junio de 2023. -----

Barcelona, a nueve de junio de dos mil veintitres.-----



[Handwritten signature]



ISOTUBI, S.L.

POL. IND. COMTE DE SERT,
 AV. CAN CAMPANYA 15,
 08755 CASTELLBISBAL (BARCELONA)
 SPAIN



THIS IS PART OF CRN
 0A24894.5
 Technical Standards and Safety Authority
 Boilers and Pressure Vessels Safety
 Program

05-May-23

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SCOPE OF CRN REGISTRATION

Product Description	Design Code	Material Specification	Product Item Number	Process Connection Size	MAWP at 100°F	MAWP at 356°F	MDMT	Report Number
Stainless Steel Press System Fittings	ASME B31.3, ASME B31.1, ASME B31.9 (Note 3)	Stainless steel in accordance with EN10217-7 TC1 meeting the requirements of ASTM A312-TP316/316L, Stainless steel ASTM A351-CF8M, Stainless steel ASTM A182-F316	See Note 6	1/2"	300 psig at 100°F	300 psig at 356°F	-31°F	R-1677-2 Rev. 0
				3/4"	215 psig at 100°F	200 psig at 356°F		
				1"	215 psig at 100°F	200 psig at 356°F		
				1-1/4"	215 psig at 100°F	200 psig at 356°F		
				1-1/2"	215 psig at 100°F	200 psig at 356°F		
				2"	161 psig at 100°F	150 psig at 356°F		

Note 1: MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature, MDMT = Minimum Design Metal Temperature.

Note 2: For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.

Note 3: In accordance with Ontario Regulation 220/01 the amendment to CSA B51 - Part 1 Clause 2 does not include ASME B31.9, therefore ASME B31.9 shall not be used as a design code in the Province of Ontario.

Note 4: The pressure-temperature ratings shown are the maximum CRN pressure-temperature ratings. In all cases the MAWP or MAWT may be limited by other considerations such as seal materials. Please consult product literature.

Note 5: The MAWP of fittings with multiple process connection sizes (Example: 2" x 2" x 1-1/2" Tee) shall be limited to the minimum pressure rating stated for all the process connection sizes the fitting has.

Note 6: The following fitting items numbers are covered under this CRN.

Description	Item Number	Size
Straight Coupling	F011/26GE	1/2
	F013/46GE	3/4
	F0116GE	1
	F0111/46GE	1 1/4
	F0111/26GE	1 1/2
	F0126GE	2

Slip Coupling	F021/26GE F023/46GE F0216GE F0211/46GE F0211/26GE F0226GE	1/2 3/4 1 1 1/4 1 1/2 2
90° Elbow	F031/26GE F033/46GE F0316GE F0311/46GE F0311/26GE F0326GE	1/2 3/4 1 1 1/4 1 1/2 2
M-F 90° Elbow	F041/26GE F043/46GE F0416GE F0411/46GE F0411/26GE F0426GE	1/2 3/4 1 1 1/4 1 1/2 2
45° Elbow	F051/26GE F053/46GE F0516GE F0511/46GE F0511/26GE F0526GE	1/2 3/4 1 1 1/4 1 1/2 2
M-F 45° Elbow	F061/26GE F063/46GE F0616GE F0611/46GE F0611/26GE F0626GE	1/2 3/4 1 1 1/4 1 1/2 2
Equal Tee	F161/26GE F163/46GE F1616GE F1611/46GE F1611/26GE F1626GE	1/2 3/4 1 1 1/4 1 1/2 2
Reducing Tee	F153/41/23/46GE F1511/216GE F1513/416GE F1511/41/211/46GE F1511/43/411/46GE F1511/4111/46GE F1511/21/211/26GE F1511/23/411/26GE	3/4 x 3/4 x 1/2 1 x 1x 1/2 1 x 1x 3/4 1 1/4 x 1 1/4 x 1/2 1 1/4 x 1 1/4 x 3/4 1 1/4 x 1 1/4 x 1 1 1/2 x 1 1/2 x 1/2 1 1/2 x 1 1/2 x 3/4

	F1511/2111/26GE F1511/211/411/26GE F1521/226GE F1523/426GE F152126GE F15211/426GE F15211/226GE	1 1/2 x 1 1/2 x 1 1 1/2 x 1 1/2 x 1 1/4 2 x 2 x 1/2 2 x 2 x 3/4 2 x 2 x 1 2 x 2 x 1 1/4 2 x 2 x 1 1/2
Tee and Reducing Tee Adapters	F121/21/26GE F121/23/46GE F123/41/26GE F123/43/46GE F123/416GE F1211/26GE F1213/46GE F12111/46GE F1211/41/26GE F1211/43/46GE F1211/416GE F1211/411/46GE F1211/21/26GE F1211/23/46GE F1211/216GE F1211/211/26GE F1221/26GE F1223/46GE F12216GE F12226GE	1/2 x 1/2 x 1/2 1/2 x 1/2 x 3/4 3/4 x 3/4 x 1/2 3/4 x 3/4 x 3/4 3/4 x 3/4 x 1 1 x 1 x 1/2 1 x 1 x 3/4 1 x 1 x 1 1/4 1 1/4 x 1 1/4 x 1/2 1 1/4 x 1 1/4 x 3/4 1 1/4 x 1 1/4 x 1 1 1/4 x 1 1/4 x 1 1/4 1 1/2 x 1 1/2 x 1/2 1 1/2 x 1 1/2 x 3/4 1 1/2 x 1 1/2 x 1 1 1/2 x 1 1/2 x 1 1/2 2 x 2 x 1/2 2 x 2 x 3/4 2 x 2 x 1 2 x 2 x 2
Reducer	F143/41/26GE F1411/26GE F1413/46GE F1411/41/26GE F1411/43/46GE F1411/416GE F1411/21/26GE F1411/23/46GE F1411/216GE F1411/211/46GE F1421/26GE F1423/46GE F14216GE F14211/46GE F14211/26GE	3/4 x 1/2 1 x 1/2 1 x 3/4 1 1/4 x 1/2 1 1/4 x 3/4 1 1/4 x 1 1 1/2 x 1/2 1 1/2 x 3/4 1 1/2 x 1 1 1/2 x 1 1/4 2 x 1/2 2 x 3/4 2 x 1 2 x 1 1/4 2 x 1 1/2
Flange Adapter CL150	F191/26GE F193/46GE	1/2 3/4

	F1916GE	1
	F1911/46GE	1 1/4
	F1911/26GE	1 1/2
	F1926GE	2
End Cap	F211/26GE	1/2
	F213/46GE	3/4
	F2116GE	1
	F2111/46GE	1 1/4
	F2111/26GE	1 1/2
	F2126GE	2
Three Piece Union	F241/26GE	1/2
	F243/46GE	3/4
	F2416GE	1
	F2411/46GE	1 1/4
	F2411/26GE	1 1/2
	F2426GE	2
Weld Adapter	F551/26GE	1/2
	F553/46GE	3/4
	F5516GE	1
	F5511/46GE	1 1/4
	F5511/26GE	1 1/2
	F5526GE	2
Van Stone Flange Adapter CL150	F441/26GE	1/2
	F443/46GE	3/4
	F4416GE	1
	F4411/46GE	1 1/4
	F4411/26GE	1 1/2
	F4426GE	2
Female Adapter	F171/21/26GE	1/2 x 1/2
	F171/23/46GE	1/2 x 3/4
	F171/216GE	1/2 x 1
	F173/41/26GE	3/4 x 1/2
	F173/43/46GE	3/4 x 3/4
	F173/416GE	3/4 x 1
	F173/411/46GE	3/4 x 1-1/4
	F1711/26GE	1 x 1/2
	F1713/46GE	1 x 3/4
	F17116GE	1 x 1
	F17111/46GE	1 x 1 1/4
	F17111/26GE	1 x 1-1/2
	F1711/41/26GE	1 1/4 x 1/2
	F1711/416GE	1 1/4 x 1
	F1711/411/46GE	1 1/4 x 1 1/4
	F1711/411/26GE	1 1/4 x 1 1/2

	F1711/216GE	1 1/2 x 1
	F1711/211/46GE	1 1/2 x 1 1/4
	F1711/211/26GE	1 1/2 x 1 1/2
	F1711/226GE	1 1/2 x 2
	F17211/46GE	2 x 1 1/4
	F17211/26GE	2 x 1 1/2
	F17226GE	2 x 2
Male Adapter	F181/21/26GE	1/2 x 1/2
	F181/23/46GE	1/2 x 3/4
	F181/216GE	1/2 x 1
	F183/41/26GE	3/4 x 1/2
	F183/43/46GE	3/4 x 3/4
	F183/416GE	3/4 x 1
	F183/411/46GE	3/4 x 1-1/4
	F1813/46GE	1 x 3/4
	F18116GE	1 x 1
	F18111/46GE 1	1 x 1 1/4
	F18111/26GE	1 x 1-1/2
	F1811/416GE	1 1/4 x 1
	F1811/411/46GE	1 1/4 x 1 1/4
	F1811/411/26GE	1 1/4 x 1 1/2
	F1811/23/46GE	1 1/2 x 3/4
	F1811/216GE	1 1/2 x 1
	F1811/211/46GE	1 1/2 x 1 1/4
	F1811/211/26GE	1 1/2 x 1 1/2
	F18211/26GE	2 x 1 1/2
	F18226GE	2 x 2

Note: Fittings supplied with HNBR seals have identical part numbers except that the letter "H" is added to the end of the part number.

Note 7: See attached list of ISOTUBI, SL manufacturing locations applicable to this CRN.



WORLDWIDE LOCATIONS APPENDIX – PAGE 1 OF 1

LOCATIONS & CERTIFYING AUTHORITIES

(rev. January 19, 2023)

ISOTUBI, SL Pol. Ind. Comte de Sert, Av.
Can Companyà 15
08755 Castellbisbal (Barcelona)
Spain
ISO 9001:2015 Certified by TUV

ISOTUBI, SL Comunicació, 7
Pol.Ind. Agripina
08755 Castellbisbal (Barcelona)
Spain
ISO 9001:2015 Certified by TUV

ISOTUBI, SL Costa i Deu 87
08205 Sabadell
Spain
ISO 9001:2015 Certified by TUV

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Boilers and Pressure Vessels Safety
Program