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November 11, 2014

ED PATNODE
ADVANCED THERMAL SYSTEMS INC
15 ENTERPRISE DR
LANCASTER NY 14086-9749
US

Service Request Type.: BPV-National BC
Service Request No.: 1093452
Your Reference No.:
Registered to.: ADVANCED THERMAL SYSTEMS INC

Dear ED PATNODE,

Please find enclosed the original response from BC, registered under the CRN No.: 0D8420.51.

As all jurisdictional fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly.

Should you have any questions or require further assistance, I will be happy to assist you.
For general enquiries, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Tanya Francis
Administrative Assistant_ BPV Engineering
Tel. : 416-734-3423
Fax : 416-231-6183
Email : tfrancis@tssa.org



505 - 6th Street, Suite 200
New Westminster, BC V3L 0E1

Toll Free: 1-866-566-SAFE
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TECHNICAL STANDARDS & SAFETY AUTHORITY
14TH FLOOR CENTRE TOWER-3300 BLOOR STREE
TORONTO ON M8X 2X4

Date: October 14, 2014
Account #: 35231
Journal #: 60756
Our File #: 5513758

Attn: TANYA FRANCIS

Re: Application for Design Registration

The design, as detailed in your, TSSA Service Request No: 1093452, for a Fitting is accepted for registration as follows:

Registered To: ADVANCED THERMAL SYSTEMS **CRN:** 0D8420.51
INC

Drawing #: TP2-790 & BJ499

Conditions Of Registration:

Registration of Thermal Pak TP2 Exp'n Joints & Thermal Pak Flexible Ball Joints per 5 pg scope of reg'n shts.

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

Reviewer's Notes:

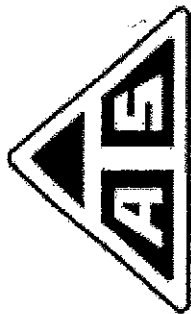
As required by CSA B51 4.2.1, this registration expires on April 25, 2023. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

SHARON PETERS

boiler.designregistration@safetyauthority.ca
Design Administration

cc:



Advanced Thermal Systems, Inc.
 15 Enterprise Drive - Lancaster, NY 14086
 Phone: (716) 681-1800 - Fax: (716) 681-0228

THIS IS PART OF
 CRN OD 8420.SRI
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program

Bulletin BJ 499
 Thermal Pak Ball Joint

Series	Size	ASME Standard	Pressure Class		STD Wall (Actual)	ASME/ASTM Material
			650 deg F	800 deg F		
P2 & S2	3/4"	B31.1	1600	1150	0.113	A106 or equivalent
P2 & S2	1"	B31.1	1600	1150	0.133	A106 or equivalent
P2 & S2	1-1/4"	B31.1	1500	1050	0.140	A106 or equivalent
P2 & S2	1-1/2"	B31.1	1500	1050	0.145	A106 or equivalent
P2 & S2	2"	B31.1	1200	850	0.154	A106 or equivalent
P2 & S2	2-1/2"	B31.1	1200	850	0.154	A106 or equivalent
P2 & S2	3"	B31.1	1200	850	0.216	A106 or equivalent
P2 & S2	4"	B31.1	1000	740	0.237	A106 or equivalent
P2 & S2	5"	B31.1	1000	740	0.237	A106 or equivalent
P2 & S2	6"	B31.1	975	720	0.280	A106 or equivalent
P2 & S2	8"	B31.1	750	550	0.322	A106 or equivalent
P2 & S2	10"	B31.1	750	550	0.365	A106 or equivalent
P2 & S2	12"	B31.1	600	440	0.375	A106 or equivalent
P2 & S2	14"	B31.1	600	440	0.375	A106 or equivalent
P2 & S2	16"	B31.1	600	440	0.375	A106 or equivalent
P2 & S2	18"	B31.1	500	440	0.375	A106 or equivalent
P2 & S2	20"	B31.1	450	400	0.375	A106 or equivalent
P2 & S2	24"	B31.1	450	400	0.375	A106 or equivalent
P2 & S2	30"	B31.1	450	350	0.375	A106 or equivalent

008420.SRI
 Safety AUTHORITY
 OCTOBER 14, 2011
 BC SA J # 60756



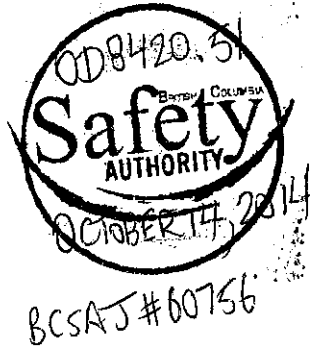
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 CRN 0D8420.5R1
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program

Bulletin TP2-790
 Thermal Pak TP2 Expansion Joint

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Model No.	Size	ASME Standard	Pressure Class 650 deg F	STD Wall (Actual)	ASME/ASTM Material
TP2W-121	1-1/2"	B31.1	150	0.145	A53 Grade B Seamless or equivalent
TP2W-121	2"	B31.1	150	0.154	A53 Grade B Seamless or equivalent
TP2W-121	2-1/2"	B31.1	150	0.203	A53 Grade B Seamless or equivalent
TP2W-121	3"	B31.1	150	0.216	A53 Grade B Seamless or equivalent
TP2W-121	4"	B31.1	150	0.237	A53 Grade B Seamless or equivalent
TP2W-121	5"	B31.1	150	0.258	A53 Grade B Seamless or equivalent
TP2W-121	6"	B31.1	150	0.280	A53 Grade B Seamless or equivalent
TP2W-121	8"	B31.1	150	0.322	A53 Grade B Seamless or equivalent
TP2W-121	10"	B31.1	150	0.365	A53 Grade B Seamless or equivalent
TP2W-121	12"	B31.1	150	0.375	A53 Grade B Seamless or equivalent
TP2W-121	14"	B31.1	150	0.375	A53 Grade B Seamless or equivalent
TP2W-121	16"	B31.1	150	0.375	A53 Grade B Seamless or equivalent
TP2W-121	18"	B31.1	150	0.375	A53 Grade B Seamless or equivalent
TP2W-121	20"	B31.1	150	0.375	A53 Grade B Seamless or equivalent
TP2W-121	24"	B31.1	150	0.375	A53 Grade B Seamless or equivalent



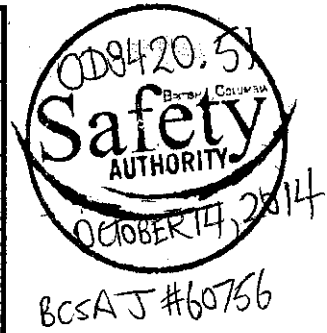


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Bulletin TP2-790
 Thermal Pak TP2 Expansion Joint

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Model No.	Size	ASME Standard	Pressure Class 650 deg F	STD Wall (Actual)	ASME/ASTM Material
TP2W-122	1-1/2"	B31.1	150	0.145	A53 Grade B Seamless or equivalent
TP2W-122	2"	B31.1	150	0.154	A53 Grade B Seamless or equivalent
TP2W-122	2-1/2"	B31.1	150	0.203	A53 Grade B Seamless or equivalent
TP2W-122	3"	B31.1	150	0.216	A53 Grade B Seamless or equivalent
TP2W-122	4"	B31.1	150	0.237	A53 Grade B Seamless or equivalent
TP2W-122	5"	B31.1	150	0.258	A53 Grade B Seamless or equivalent
TP2W-122	6"	B31.1	150	0.280	A53 Grade B Seamless or equivalent
TP2W-122	8"	B31.1	150	0.322	A53 Grade B Seamless or equivalent
TP2W-122	10"	B31.1	150	0.365	A53 Grade B Seamless or equivalent
TP2W-122	12"	B31.1	150	0.375	A53 Grade B Seamless or equivalent
TP2W-122	14"	B31.1	150	0.375	A53 Grade B Seamless or equivalent
TP2W-122	16"	B31.1	150	0.375	A53 Grade B Seamless or equivalent
TP2W-122	18"	B31.1	150	0.375	A53 Grade B Seamless or equivalent
TP2W-122	20"	B31.1	150	0.375	A53 Grade B Seamless or equivalent
TP2W-122	24"	B31.1	150	0.375	A53 Grade B Seamless or equivalent



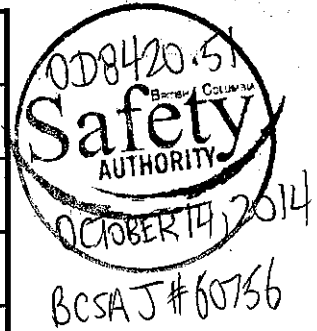


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Bulletin TP2-790
 Thermal Pak TP2 Expansion Joint

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Model No.	Size	ASME Standard	Pressure Class 650 deg F	STD Wall (Actual)	ASME/ASTM Material
TP2W-131	1-1/2"	B31.1	300	0.145	A53 Grade B Seamless or equivalent
TP2W-131	2"	B31.1	300	0.154	A53 Grade B Seamless or equivalent
TP2W-131	2-1/2"	B31.1	300	0.203	A53 Grade B Seamless or equivalent
TP2W-131	3"	B31.1	300	0.216	A53 Grade B Seamless or equivalent
TP2W-131	4"	B31.1	300	0.237	A53 Grade B Seamless or equivalent
TP2W-131	5"	B31.1	300	0.258	A53 Grade B Seamless or equivalent
TP2W-131	6"	B31.1	300	0.280	A53 Grade B Seamless or equivalent
TP2W-131	8"	B31.1	300	0.322	A53 Grade B Seamless or equivalent
TP2W-131	10"	B31.1	300	0.365	A53 Grade B Seamless or equivalent
TP2W-131	12"	B31.1	300	0.375	A53 Grade B Seamless or equivalent
TP2W-131	14"	B31.1	300	0.375	A53 Grade B Seamless or equivalent
TP2W-131	16"	B31.1	300	0.375	A53 Grade B Seamless or equivalent
TP2W-131	18"	B31.1	300	0.375	A53 Grade B Seamless or equivalent
TP2W-131	20"	B31.1	300	0.375	A53 Grade B Seamless or equivalent
TP2W-131	24"	B31.1	300	0.375	A53 Grade B Seamless or equivalent





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Bulletin TP2-790
 Thermal Pak TP2 Expansion Joint

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Model No.	Size	ASME Standard	Pressure Class 650 deg F	STD Wall (Actual)	ASME/ASTM Material
TP2W-132	1-1/2"	B31.1	300	0.145	A53 Grade B Seamless or equivalent
TP2W-132	2"	B31.1	300	0.154	A53 Grade B Seamless or equivalent
TP2W-132	2-1/2"	B31.1	300	0.203	A53 Grade B Seamless or equivalent
TP2W-132	3"	B31.1	300	0.216	A53 Grade B Seamless or equivalent
TP2W-132	4"	B31.1	300	0.237	A53 Grade B Seamless or equivalent
TP2W-132	5"	B31.1	300	0.258	A53 Grade B Seamless or equivalent
TP2W-132	6"	B31.1	300	0.280	A53 Grade B Seamless or equivalent
TP2W-132	8"	B31.1	300	0.322	A53 Grade B Seamless or equivalent
TP2W-132	10"	B31.1	300	0.365	A53 Grade B Seamless or equivalent
TP2W-132	12"	B31.1	300	0.375	A53 Grade B Seamless or equivalent
TP2W-132	14"	B31.1	300	0.375	A53 Grade B Seamless or equivalent
TP2W-132	16"	B31.1	300	0.375	A53 Grade B Seamless or equivalent
TP2W-132	18"	B31.1	300	0.375	A53 Grade B Seamless or equivalent
TP2W-132	20"	B31.1	300	0.375	A53 Grade B Seamless or equivalent
TP2W-121	24"	B31.1	300	0.375	A53 Grade B Seamless or equivalent

