



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](http://www.tssa.org)

August 12, 2013

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

Service Request Type.: BPV-National AB  
Service Request No.: 1093444  
Your Reference No.:  
Registered to.: ADVANCED THERMAL SYSTEMS INC

Dear ED PATNODE,

Please find enclosed the original response from AB, registered under the CRN No.: 0D08420.52

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](mailto: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](mailto:tfrancis@tssa.org)



the pressure equipment safety authority

9410 - 20 Ave N.W.

Edmonton, Alberta, Canada T6N 0A4

Tel: (780) 437-9100 / Fax: (780) 437-7787

July 01, 2013

**Attention:** Tanya Francis  
TECHNICAL STANDARDS & SAFETY AUTHORITY  
3300 BLOOR STREET WEST  
14 FLOOR CENTRE TOWER  
TORONTO, ON M8X 2X4

The design submission, tracking number 2013-03433, originally received on May 09, 2013 was surveyed and accepted for registration as follows:

**CRN :** 0D08420.52

**Accepted on:** July 01, 2013

**Reg Type:** Addition to Acc. Fitting

**Expiry Date:** April 25, 2023

**Drawing No. :** BULLETIN TP2-790 & FJ499

**Fitting type:** EXPANSION JOINTS&THERMAL PAK BALLS

Design registered in the name of : ADVANCED THERMAL SYSTEMS INC

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

*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 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**



I, Edward Patnode, P.E.

President/CEO

(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)

of Advanced Thermal Systems, Inc.

(name of manufacturer)

located at 15 Enterprise Drive, Lancaster, NY 14086

(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

comply with the requirements of ASTM 01.07 which specifies the dimensions,  
(title of recognized North American Standard)

materials of construction, pressure/temperature ratings and identification marking of the fittings, 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, 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 Global Standards 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 \_\_\_\_\_

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

See attached list of enclosures

DECLARED before me at 15 Enterprise Drive in the Town of Lancaster, NY

this 4th day of April, 2013  
(Month) (Year)

(print) Stacy A. Hoover

**STACY A HOOVER**

(sign) Stacy A. Hoover

NOTARY PUBLIC-STATE OF NEW YORK (Signature of Applicant)

No. 01HO6193159

Qualified in Niagara County

For Office Use Only

My Commission Expires September 15, 2014

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category D

Registration Number: 0R08420.52

Date Registered: JUL 01 2013

(For the Administrator/Chief Inspector of Alberta)

Expiry Date: 2023-04-25



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

THIS IS PART OF  
 CRN 008420.5 R1  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program

Bulletin TP2-790  
 Thermal Pak TP2 Expansion Joint

4 sheets

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

**REGISTRATION OF FITTINGS**

REGISTRATION NO. **008420.52**

DWG. NO. or CAT. NO. *Scope, 4 pages*

TYPE OF FITTINGS *EXP joints & pak balls*

Date **01 01 2013** INITIALS *[Signature]*

MILLA GRYNCHUK, P.Eng.  
DESIGN SURVEY ENGINEER



Advanced Thermal Systems, Inc.  
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Bulletin TP2-790  
 Thermal Pak TP2 Expansion Joint

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

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

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

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