



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

September 16, 2013

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

Service Request Type.: BPV-National CSA
Service Request No.: 1093514
Your Reference No.:
Registered to.: ADVANCED THERMAL SYSTEMS INC

Dear ED PATNODE,

Please find enclosed the original response from QC,SK, registered under the CRN No.: CSA-0D8420.56R1.

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.

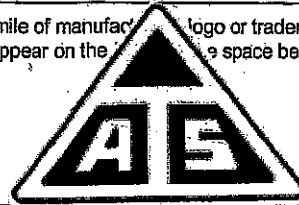
Yours truly,

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



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 product in the space below



STATUTORY DECLARATION

Registration of Fittings

I, Edward Patnode, P.E., President/CEO

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

of Advanced Thermal Systems, Inc

(Name of Manufacturer)

Located at 15 Enterprise Drive, Lancaster, NY 14086

(Plant Address)

800-443-9194

(Telephone No.)

716-681-0228

(Fax No.)

I 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 ASTM 01.07

(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 _____ 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 CSA B51 Annex F which has been verified by the following authority, HSB Global Standards

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:

See attached list of enclosures

(drawings, calculations, test reports, etc.)

Declared before me at 15 Enterprise Drive in the Town of Lancaster
 the 10th day of April AD 2013.

Commissioner for Oaths:

Stacy A. Hoover
(Printed name)

Stacy A. Hoover
(Signature)

STACY A HOOVER

NOTARY PUBLIC-STATE OF NEW YORK

No. 01HO6193159

Qualified in Niagara County

My Commission Expires September 15, 2016

[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 H.

CRN: CSA-OD84 20.56R1

Registered by: B. SANDHU

Dated: JUNE 20 2013

NOTE: This registration expires on

APRIL 25 2023

CSA INTERNATIONAL

REGISTERED

C.R.N.: CSA-OD84 20.56R1

Signed: Bikranjot Sandhu

Date: 20 June 2013

178 Rexdale Blvd., Toronto, ON M9W 1F3




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 008420.5R1
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program

4 sheets

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-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


 CANADIAN STANDARDS ASSOCIATION

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ATTACHMENT TO

CRN CSA-008420.56R1

SIGNED Bikramjit Sandhu

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3



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

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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 ASSOCIATION

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SIGNED Bikramjit Sandhu


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

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


 CANADIAN STANDARDS ASSOCIATION

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ATTACHMENT TO

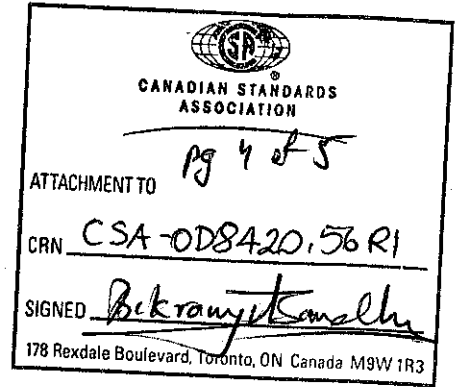
CRN CSA-018420.56R1

SIGNED Bekramjit Sandhu

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

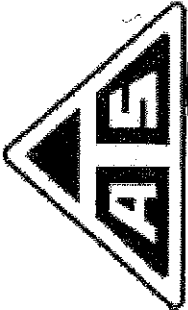


Advanced Thermal Systems, Inc.
 15 Enterprise Drive - Lancaster, NY 14086
 Phone: (716) 681-1800 - Fax: (716) 681-0228
 email: edpatnode@advancedthermal.net



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



Bulletin BJ 499

Thermal Pak Ball Joint

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

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



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pg 5 of 5

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CRN CSA-OD8420.56 R1

SIGNED *Bikramjit Sandhu*

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3