



TECHNICAL STANDARDS &
SAFETY AUTHORITY
14th Floor, Centre Tower
3300 Bloor Street West
Toronto, Ontario
Canada M8X 2X4



See Attached Summary MAWP-02

STATUTORY DECLARATION Registration of Fittings

I, Robert D Thomas, VP Development Engineering

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

of Ashcroft Inc.

(Name of Manufacturer)

Located at 250 East Main Street, Stratford, CT, USA

(Plant Address)

203.378.8281

(Telephone No.)

203.385.0408

(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

CSA B51, ASME BPV Code Section VIII Division 1, ASME B31.3, ASME B31.1, CSA C22.2 61010-1

(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 ISO 9001:2000 which has been verified by the following authority, Lloyd's Register Quality Assurance (LRQA Inc. Houston).

The items covered by this declaration, for which I seek registration, are category F type fittings. In support of this application, the following information and/or test data are attached as follows:

PRP01-DS-001, Rev 1; MAWP-02

(drawings, calculations, test reports, etc.)

Declared before me at Stratford, CT USA in the County of Fairfield
the 25 day of June AD 2009.

Commissioner for Oaths:

Olimpia M. DeCrescenzo

(Printed name)

O. M. DeCrescenzo

(Signature)

Exp. 8/31/09

Robert D. Thomas

(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 F.

CRN: OF12994.5A001

Registered by: S. Lam

Dated: AUG 20, 2009

NOTE: This registration expires on MAY 1, 2019

Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety Program

OFFICE REGISTERED

C.R.N.: OF12994.5A001
 Signed: S. Lam
 Date: AUG 20, 2009



250 East Main Street, Stratford, CT, USA 06614. Tel 203.378.8281. Fax 203.365.0408.

MAWP-02

Ashcroft Diaphragm Seal Type	Size (in) (1)	Diaphragm Material (4)	Bottom Housing Material (4)	MAWP at ambient (psi or ASME B16.5 class #) (3)		Maximum Design Temperature T (°F)	MAWP at Maximum Design Temperature (psi or ASME B16.5 class #) (3)		Codes of Construction
				Seal A	Seal B		Seal A	Seal B	
100, 101, 104, 107, 105	1/4, 1/2, 3/4, 1, 1.5, 2, 3, 4	Metallic	Metallic	1250		750	730		
				200		74, 125, 150	200, 125, 80 (2)		
102, 103	1/2, 3/4, 1, 1.5, 2, 3, 4	Metallic	Metallic	150#		750	150#		
				290		150	270		
200, 201, 204, 207, 205	1/4, 1/2, 3/4, 1, 1.5, 2, 3, 4	Metallic	Metallic	75		100	75		
						750			730
202, 203	1/2, 3/4, 1, 1.5, 2, 3	Metallic	Metallic	1250		400			ASME B31.1
				500		350			875
300, 301, 304	1/4, 1/2, 3/4, 1, 1.5	Metallic	Metallic	500		212			ASME B31.3
				200		74, 125, 150			200, 125, 80 (2)
302, 303	1/2, 3/4, 1, 1.5, 2, 3	Metallic	Metallic	200		74, 125, 150			ASME B16.5
				150#, 300#, 600#		400			150#
400, 401	1/4, 1/2, 3/4, 1	Metallic	Metallic	150#		350			ASME Boiler & Pressure Vessel Code
				4400		212			270
402, 403	1/2, 3/4, 1, 1.5, 2, 3	Metallic	Metallic	290		150			CSA C22.2 61010-1 ANNEX G
				75		74, 125, 150			200, 125, 80 (2)
500, 501	1/2, 3/4, 1, 1.5, 2, 3	Metallic	Metallic	150#		400			
				290		350			150#
400, 401	1/4, 1/2, 3/4, 1	Metallic	Metallic	200		212			
				75		150			270
402, 403	1/2, 3/4, 1, 1.5, 2, 3	Metallic	Metallic	500		100			
				4400		750			75
402, 403	1/2, 3/4, 1, 1.5, 2, 3	Metallic	Metallic	150#, 300#, 600#		750			CSA C22.2 61010-1 ANNEX G
									290
402, 403	1/2, 3/4, 1, 1.5, 2, 3	Metallic	Metallic	150#, 300#, 600#		750			CSA C22.2 61010-1 ANNEX G
									2580

Notes:

- (1) Types 104, 204, and 304 not available in 1.5". Types 107 and 207 also available in 2". (consult factory). Only Type 105, 205 available in 3" and 4"
- (2) Maximum Allowable Working Pressure (MAWP) at respective Maximum Design Temperature. (consult factory)
- (3) Seal A - Threaded capsule diaphragm; Seal B - Welded and clamped or welded only diaphragm; Seal C - Bonded/Welded and Clamped or Clamped only diaphragm (consult factory)
- (4) Nickel constructions excluded. Metallic materials UNS S31603 equivalent or stronger are qualified under this CRN registration. (consult factory)



14th Floor, Centre Tower
3300 Bloor Street West
Toronto, Ontario
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Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772
www.tssa.org

December 15, 2014

JEREMY PAYNE
ASHCROFT INC.
250 E MAIN STREET
STRATFORD CT 06614
US

Service Request Type: BPV-Fitting Registration
Service Request No.: 1537810
Your Reference No.: DIAPHRAGM SEALS
Registered to: ASHCROFT INC.

Dear JEREMY PAYNE,


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

CRN No.: 0F12994.5ADD2
Main Design No.: Product Bulletin, Scope of Registration
Expiry Date: 01-May-2019

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. 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,


Ruiming You, P.Eng.
Mechanical Engineer, BPV
Tel.: 416-734-3428
Fax: 416-231-6183
Email: ryou@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 fitting, in the space below



STATUTORY DECLARATION Registration of Fittings

I, Phillip Reed Quality Assurance Manager
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Ashcroft, Inc.
(Name of Manufacturer)

Located at 250 East Main Street, Stratford, Connecticut 06614, USA 1-203-385-0318 1-203-385-0662
(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; ASME B40.2 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 9001:2008 which has been verified by the following authority, LRQA.

The items covered by this declaration, for which I seek registration, are category F type fittings. In support of this application, the following information and/or test data are attached as follows:

Diaphragm Seals catalogues: DFE, DF, Type 702, 703 & 740, 741; Type 510/511; Type 310, 315; Type 311/312
(drawings, calculations, test reports, etc.)

Declared before me at Stratford, CT U.S.A in the county of Fairfield
 the 29th day of October AD 2014.

Commissioner for Oaths:

Irene Ferrigno
(Printed name)
Irene Ferrigno
(Signature)

IRENE FERRIGNO
 NOTARY PUBLIC
 State of Connecticut
 My Commission Expires
 November 30, 2017

[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 F.

CRN: OF 12994.5 ADD2

Registered by: Ruiming You

Dated: Dec. 15, 2014

NOTE: This registration expires on May 01, 2019

REGISTERED

OF 12994.5 ADD2

Dec. 15, 2014



TECHNICAL STANDARDS & SAFETY AUTHORITY
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 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 DECLARATION Registration of Fittings

I, Phillip Reed Quality Assurance Manager
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Ashcroft Instruments GmbH
(Name of Manufacturer)

Located at Max-Planck-Str. 1, D-52449 Baesweiler, Germany 1-203-385-0318 1-203-385-0662
(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; ASME B40.2 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 9001:2008 which has been verified by the following authority, TUV Rheinland.

The items covered by this declaration, for which I seek registration, are category F type fittings. In support of this application, the following information and/or test data are attached as follows:

Diaphragm Seals catalogues: DFE; DF; Type 702, 703 & 740, 741; Type 510/511; Type 310, 315; Type 311/312
(drawings, calculations, test reports, etc.)

Declared before me at Stratford, CT U.S.A in the county of Fairfield
 the 29th day of October AD 2014.

Commissioner for Oaths:

Irene Ferrigno
(Printed name)
Irene Ferrigno
(Signature)

IRENE FERRIGNO
 NOTARY PUBLIC
 State of Connecticut
 My Commission Expires
 November 30, 2017

[Signature]
(Signature of Declarer)

FOR OFFICE USE ONLY

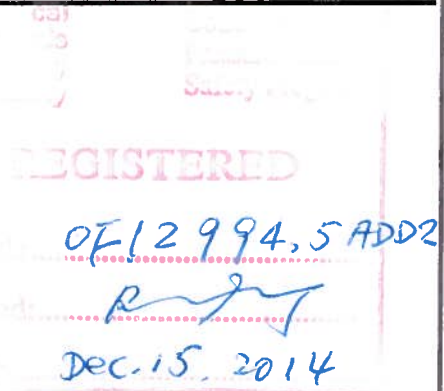
To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category F.

CRN: OF 12994, 5 ADD2

Registered by: Ruiming You

Dated: Dec. 15, 2014

NOTE: This registration expires on May 01, 2019





250 Main Street, Stratford, CT 06614-5145, USA

Scope of Registration Summary - Diaphragm Seals

Product	Type	Process Connection Size (in) [1]	Design Pressure (psi) [2]	Design Temp. (°F) [2]	Weakest Housing & Diaphragm Material [4, 5]	Code of Construction
310	All welded	1/8, 1/4, 3/8, 1/2, 3/4, 1 male	2500	-70 to 750	316L UNS S31603	ASME B31.3
315		1/4, 3/8, 1/2 female				
311		1/4, 1/2, 3/4, 1 male or female	1000			
312		1/4, 1/2 female				
510		1/2 male	1500 or 5000			
511						
702	Flanged	1/2, 3/4, 1, 1 1/2, 2, 3	ASME B16.5 150# to 600#			
703						
740	Threaded	1/4, 1/2, 3/4, 1	750			
741						
DF	Welded flanged	2, 3, 4	ASME B16.5 150# to 2500#	Diaphragm & Flange: 316L UNS S31603 Hub: 316Ti UNS S31635		
DFF	Welded flanged with internal diaphragm	1, 1 1/2	ASME B16.5 150# to 300#			

NOTES

- [1] Except for flanged models, connections are NPT type per ASME B1.20.1
- [2] Design pressure given at 100°F, for de-ratings see B16.5. Minimum design temperature limited by fill fluid.
- [3] Models 315, 312, 511, 703, 741 supplied with flushing connection

THIS IS PART OF
 ASME B31.3 12994, 5 ADD 2
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program

The undersigned hereby declares that that above is accurate and representative,

Name: Jeremy M. Payne Title: Materials and Testing Eng. Manager

Signature: Date: December 4th, 2014