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October 09, 2019

Jerome Grant
DEZURIK
250 RIVERSIDE AVE N
SARTELL MN 56377
US

Service Request Type: BPV-Fitting Registration

Service Request No.: 2696790

Your Reference No.:

Registered to: DeZURIK Inc.

Dear Jerome Grant,

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

CRN No.: 0C21854.5

Main Design No.: APCO CSC 600A Silent Check Valves (see the attachment to the Statutory Declaration Form for the scope of registration.)

Expiry Date: 09-Oct-2029

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,



Mark Valcic P. Eng.
Engineer Specialist BPV
Tel.: 416-734-3494
Fax: 416-231-1626
Email: mvalcic@tssa.org



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
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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, Jerome D. Grant, P.E. Engineering Industry Standards Manager
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of DeZURIK, Inc.
(Name of Manufacturer)

Located at 250 Riverside Ave N (320) 259-2000 (320) 259-2201
(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
See Design Summary

(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 9001:2015 which has been verified by the following authority, TUV, CWB.

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

Design Summary, Bulletin, Wall Thickness Comparison Table, Pressure Boundary Drawings

(drawings, calculations, test reports, etc.)

Declared before me at Sartell in the State of Minnesota
 the 3rd day of October AD 20 19.

Commissioner for Oaths:

Linda M. Justin
(Printed name)

Linda M Justin
(Signature)



Jerome D. Grant
(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 C.

CRN: 0C21854.5

Registered by: MARK VALCIC, P.ENG.

Dated: Oct. 9, 2019

NOTE: This registration expires on: Oct. 9, 2029

Technical Standards and Safety Authority Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N. 0C21854.5

Signed: [Signature]

Date: Oct. 9, 2019

*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request. **NOTE: APCO CSC 600A SILENT CHECK VALVES, SEE THE ATTACHMENT FOR THE SCOPE OF REGISTRATION.**

PV 09553 (04/17)

DeZURIK, Inc.
APCO CSC 600A Silent Check Valves

APCO CSC 600A silent check valves are produced in standard sizes 75mm (3") to 1100 mm (42"). Standard body materials are ductile iron (2" – 24") and cast iron (30" – 42"). Carbon steel and stainless steel bodies are also available. Three resilient seat material options are available: NBR, FKM, and EPDM. However, this Design Summary is currently limited to sizes 75mm (3") to 600 mm (24") with ductile iron, carbon steel, and stainless steel bodies using these seat materials. Valves are offered as either ASME Class 150 or Class 300 as defined below. The CSC 600 series has provided successful service for over 50 years.

DESIGN SUMMARY:

SIZE(S)	BODY MATERIAL(S)	DESIGN CODE(S)	PRESSURE TEMPERATURE RATING(S)	NOTES
75 mm – 600 mm (3" – 24")	Ductile Iron (DI), ASTM A536, Grade 65-45-12 Carbon Steel (CS), ASTM A216, Grade WCB Stainless Steel (SS), ASTM A351, Grade CF-8M	ASME B16.42 <i>Ductile Iron Pipe Flanges and Flanged Fittings</i> (2016) ASME B16.34 <i>Valves – Flanged, Threaded, and Welding End</i> (2017) ASME B16.5 <i>Pipe Flanges and Flanged Fittings</i> (2017)	<u>Class 150 (3-24")</u> (See Notes) <u>Class 300</u> DI: 400 psi (3-12") DI: 300 psi (14") CS: 450 psi (3-8") SS: 425 psi (3-8") (See Notes) <u>Temperature Range:</u> Min: -20F Max: 250F, 300F, or 325F dependent on material of valve seat or spring (See Notes)	Body wall thickness, flange thickness, and flange drilling for Ductile Iron valves meets ASME B16.42, Classes 150 and 300. See attached comparison table for wall and flange thickness verification. Body wall thickness, flange thickness, and flange drilling for Carbon Steel and Stainless Steel valves meets ASME B16.34, Classes 150 and 300. See attached comparison table for wall and flange thickness verification. For Class 150, the maximum allowable working pressures are per the P-T ratings tables per the respective design code for each of the three materials and are bounded by the temperature range identified in the prior column. Valid for all three materials for entire size range, 3-24". For Class 300, the maximum allowable working pressures are set to the constant conservative value shown for that material throughout the temperature range identified in the prior column. These constant values are less than those in the P-T ratings tables for the same temperature range resulting in increased safety factors. Valid only for materials and sizes shown in prior column. Valve maximum temperature is limited by the seat or valve spring material options (250°F for NBR, 300°F for EPDM and 325°F for 316 SS spring). Reference ASTM A395/A395M Scope Paragraph 1.1. (This specification covers ductile iron castings for pressure retaining parts use at elevated temperatures. Castings of all grades are suitable for use up to 450F). Valve minimum temperature of -20F is limited by body materials. See Bulletin 640 <i>APCO CSC Silent Check Valves</i> for further description, materials of construction, and assembly information. See attached applicable pressure boundary drawings.

THIS IS PART OF
CRN 021854.5 (2017)
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

AMC
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Printed Name: Brian Amundson	Date: October 3, 2019
Signature: <i>Brian Amundson</i>	Revision: A (Initial Issue)
Title: Continuation Engineer	Page: 1 of 1