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November 23, 2016

CATHERINE DIPLOCK
PRESSURE VESSEL ENGINEERING LTD.
120 RANDALL DR SUITE B
WATERLOO ON N2V 1C6
CA

Service Request Type: BPV-Fitting Registration
Service Request No.: 1964774
Your Reference No.: PVE-10860
Registered to: PARKER-HANNIFIN CORPORATION

Dear CATHERINE DIPLOCK,

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

CRN No.: 0H10879.5R1
Main Design No.: MODEL 27 FILTER ASSEMBLIES - SEE SCOPE 10860S-1
Expiry Date: 23-Nov-2026

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,

Charley Dong, M.Sc. P.Eng.
Mechanical Engineer

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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, DANIEL RYAN, ENGINEERING MANAGER
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Parker Hannifin Filtration and Separation Division
(Name of Manufacturer)

Located at 260 Neck Road, Haverhill, MA 01835 USA
(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 VIII-1 2015 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 ISO9001:2008 which has been verified by the following authority, Det Norske Veritas Certification.

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 scope of registration, 10860s-1
(drawings, calculations, test reports, etc.)

Declared before me at Haverhill in the STATE of Massachusetts
 the 14TH day of October AD 2016

Commissioner for Oaths:
Karen A Mayer
(Printed name)
Karen A Mayer
(Signature)

KAREN A. MAYER
 Notary Public
 My Commission Expires October 1, 2019

Daniel L Ryan
(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: OH10879.521

Registered by: Charley Doy

Dated: NOV. 23/16

NOTE: This registration expires on: NOV. 23, 2026

NOTE: SEE ATTACHED
 'PART OF CRN'
 FOR THE SCOPE.
 CAD
 TSSA

NOV. 23/16

Technical Standards and Safety Authority **Boilers and Pressure Vessels Safety Program**

REGISTERED

CRN: OH10879.521

Signed: Charley Doy

Date: NOV. 23/16

10860s-1 R0

Scope of Registration

Parker Hannifin Filtration and Separation Division

This submission is a re-registration of fittings using CSA B51-14 Part 1 4.2.8(c) method. The current registration uses the exact pressure retaining components of the previous CRN registration OH10879.512

Model 27 Filter Housings – List of Drawings

Model 27 Filter Housings made by Parker Hannifin Filtration and Separation Division are made per following drawings:

Model	Drawing No.
27/35.....	C-12439
EU27/35-BSPT.....	C-15368
A27/35B-SA.....	C-12279
27/50.....	C-12084
EU27/50 BSPT.....	C-18396
27/80.....	C-11677
A27/80B-SA.....	C-12280
EU27/80-BPST.....	C-18400
27/95.....	C-12083
EU27/95-BPST.....	C-18402



Model 27 Filter Housings – Design Conditions

Model 27 Filter Housings made by Parker Hannifin Filtration and Separation Division are designed to work in the following conditions:

1. Design and built in accordance with ASME Section VIII Div. 1, 2015 Ed.
2. Max. Internal Pressure, psi:..... 800
3. Max. External Pressure, psi:..... 0
4. Design Temperature, °F:..... 200
5. Minimum Temperature, °F:..... -20
6. Hydrostatic Test Pressure, psi:..... 1200
7. Corrosion Allowance:..... 0
8. Radiography:..... none

Model 27 Filter Housings – Materials

Model 27 Filter Housings made by Parker Hannifin Filtration and Separation Division are made from the following list of materials:

- Body:..... - Stainless Steel SA-312 TP316
Head, Collar, End Cap, Half Socket:..... - Stainless Steel SA-479 316
Hot rolled. No cold formed materials are used.