

Montréal, 3 octobre 2022.

MADAME TANYA FRANCIS
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON
CANADA M9W 6N9

Fabricant : PARKER HANNIFIN - INSTRUMENT PRODUCT DIV.
1005 A CLEANER WAY,
HUNSTVILLE AL
USA 35805

Numéro de dossier : 947297

Numéro(s) de dessin(s) : AS PER SCOPE OF REGISTRATION [MAY 31, 2022]

Objet : Enregistrement des plans et devis – Confirmation de l'enregistrement

Bonjour,

Nous vous informons que votre demande d'enregistrement de plans et devis a été traitée et que cette conception a été enregistrée sous le numéro d'enregistrement canadien (NEC\CRN) suivant : **0C07928.56**.

Nous portons votre attention sur certaines exigences réglementaires concernant les installations sous pression, ainsi que des codes et normes qui y sont associés :

- Le fabricant doit maintenir un programme de contrôle de la qualité valide pour fabriquer un équipement selon ce NEC;
- Ce numéro d'enregistrement demeure valide tant et aussi longtemps que les paramètres de conception demeurent inchangés. Dans le cas d'accessoires, l'enregistrement est valide pour une durée de 10 ans à partir de la date de conception doivent alors être resoumis pour validation;
- Le fabricant doit nous transmettre une copie de la *Déclaration de conformité du constructeur (Manufacturer's Data Report)* pour chaque appareil ou chaudière fabriqué selon ce NEC dans les 30 jours suivant la signature de cette déclaration;
- Le numéro de dessin enregistré et le numéro de révision doivent être indiqués sur la déclaration de conformité pour les équipements fabriqués selon ce NEC.

Le présent avis d'approbation ne dégage pas le fabricant de ses responsabilités quant à la conception ou à la construction des équipements ou d'accessoires fabriqués selon un NEC.

Bureau d'expertise et d'homologation en équipements sous pression

Montréal

545, boul. Crémazie Est, 7ième étage

Montréal (Québec) H2M 2V2

Téléphone : 514 873-6459

Sans frais : 1 866 262-2084

www.rbq.gouv.qc.ca

Montréal, le 3 octobre 2022.

MRS. TANYA FRANCIS
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON
CANADA M9W 6N9

Manufacturer : PARKER HANNIFIN - INSTRUMENT PRODUCT DIV.
1005 A CLEANER WAY,
HUNSTVILLE AL
USA 35805

OUR REFERENCE : 947297

Design number : AS PER SCOPE OF REGISTRATION [MAY 31, 2022]

Subject: Design registration confirmation

Hi,

We wish to inform you that your design registration application has been evaluated and that it was registered under the following Canadian Registration Number (CRN): **0C07928.56.**

The following is a reminder of your obligations regarding certain requirements of the regulation respecting pressure vessels, and the referenced codes and standards:

- The manufacturer must maintain a valid quality control program to manufacture equipment according to the CRN.
- The CRN remains valid as long as there are no changes to the design calculations that might affect the pressure boundary. The design registration of fittings expires 10 years after acceptance. It must, therefore, be resubmitted for validation.
- The manufacturer shall submit a copy of the *Manufacturer's Data Report* to us for each equipment manufactured according to this CRN within 30 days following the signing of this report.
- The drawing number and the revision number registered under this CRN must be indicated on the *Manufacturer's Data Report* for equipment manufactured according to the CRN.

This notice of approval does not relieve the manufacturer of their responsibilities with respect to the design or fabrication of equipment manufactured according to this CRN.

Yours sincerely,

Bureau d'expertise et d'homologation en équipements sous pression

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Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
www.tssa.org

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, Ken Reid, Division QA Manager

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

of Parker Hannifin Instrumentation Products Division

(Name of Manufacturer)

Located at 1005 A Cleaner Way, Huntsville, AL, 35805, USA

(Plant Address)

256-881-2040

(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 Parker Hannifin Engineering Standard 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, DNV-GL.

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:

See Attached Submission List

(drawings, calculations, test reports, etc.)

Declared before me at Jacksonville, AL in the County of Calhoun Alabama
the 16th day of November AD 2021.

Commissioner for Oaths:

Cayce R. Grimes
(Printed name)
(Signature)

Ken Reid
(Signature of Declarant)

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 _____.

CRN: _____

Registered by: _____

Dated: _____

NOTE: This registration expires on: _____



Registration is per ASME B31.3

*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.



CRN Renewal: 0C7928.5

IR4000 Series Regulators, IR6000 Series Regulators, NPR4000 Series Regulators, AVR3 Series Regulators, and AVR4 Series Regulators

Parker Hannifin Corporation
Instrumentation Products Division
Huntsville, Alabama

Initial: November 17, 2021

Revised: May 31, 2022



Parker Hannifin Corporation
Instrumentation Products Division
1005 A Cleaner Way
Huntsville, AL 35805 USA
Phone (256) 881-2040

Scope of Registration:

Pressure Regulators: IR4000 Series, IR6000 Series, NPR4000 Series, AVR3 Series, and AVR4 Series

Parker is requesting a renewal of CRN OC7928.5.5. There are no changes to the design and scope of registration under this renewal.

The products listed above currently have active registrations in Canada – Canadian Registration Number (CRN) OC7928.5ADD2 issued July 3, 2019. This scope of registration is in support of an application to renew the CRN for the named products.

Attached are:

- The catalog for each series of regulators
- A copy of the previous approved design submission
- The Quality certification for the one (1) manufacturing locations
- Appendix A: Scope of Registration

If there are any questions, concerns or you need additional information please contact me on 256-881-2040.

Respectfully,

A handwritten signature in black ink, reading "Laura C. Veal".

Laura C. Veal
Quality Engineer

Parker Hannifin Corporation
Instrumentation Products Division
1005 A Cleaner Way
Huntsville, AL 35805 USA
Phone (256) 881-2040
Fax Number (256) 881-5730



Appendix A: Scope of Registration (Taken from Report 2021-OC7928.5)

IR4000 Series Products (Page 3 of Report 2021-OC7928.5):

IR4000 Pressure Reducing Regulator
IR6000 Two-Stage Regulator
NPR4100 Sub-atmospheric Regulator

Product Specification Summary:

Materials of Construction:

360 Brass, ASTM B16 C36000
316L Stainless Steel, ASTM A276 S31603

Operation Conditions:

Temperature	-40°F to 500°F (150° max Brass)
High Pressure (HP) Inlet, MAWP	4000 psig max
Low Pressure (LP)	500 psig
Dome Load Pressure	500 psig

Connections:

Body	1/8", 1/4" FNPT
Dome Load	1/8" FNPT

AVR3 Vaporizing Regulator, Steam (page 6 of Report 2021-OC7928.5)

AVR4 Vaporizing Regulator, Electric (page 6 of Report 2021-OC7928.5)

Product Specification Summary:

Materials of Construction:

316L Stainless Steel, ASTM A276 S31603
Monel R405, ASTM B164 N04405

Operation Conditions:

Temperature	- 500°F max
High Pressure (HP) Inlet, MAWP	3500 psig max
Low Pressure (LP) Outlet	500 psig
Steam Pressure, AVR3 Heater	600 psig

Connections:

Pipe Thread	1/8", 1/4" FNPT
Low Volume Analytical (GC)	
AVR3 Heater Supply	1/8" FNPT