

August 22, 2022

Attention: Tanya Francis
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO, ON M9W 6N9

The design submission, tracking number 2022-04670, originally received on August 18, 2022 was surveyed and accepted for registration as follows:

CRN : 0C07928.52 **Accepted on:** August 22, 2022
Reg Type: RENEWAL **Expiry Date:** June 13, 2032
Drawing No. : APPENDIX A (SCOPE OF REGISTRATION)
Fitting type: REGULATORS IR4000,IR6000,NPR4100,AVR3,AVR4
Design registered in the name of : PARKER HANNIFIN

The registration is conditional on your compliance with the following notes:

*** The Scope of this Registration include 10-years renewal. There is no design change, nor any scope change.*

As indicated on AB-41 Statutory Declaration or AB-351 Declaration of Conformity form and submitted documentation, the code of construction is ASME B31.3.

- It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration or AB-351 Declaration of Conformity as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.*
- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration or AB-351 Declaration of Conformity form.*
- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency, and maintains a valid Certification of Authorization Permit if required by the jurisdiction where manufacturing takes place, until that date.*
- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.*

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3337 or fax (780) 437-7787 or e-mail Dick@absa.ca.

Sincerely,



DICK, ASHLING, P. Eng.
DOP Cert. No. D00007936

NOTE: You cannot save the DATA you entered on this form, you must print a copy and FAX it or MAIL it!



Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N6
www.tssa.org

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

** See attached

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 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: _____

Registered by: _____

Dated: _____

NOTE: This registration expires on: 2032-06-13

2022-04670

ABSA

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: 0007928 52

See acceptance letter for
conditions of registration.

Date: 2022-08-22

By:

Ashling Dick
ASHLING DICK, P. Eng.
DOP: D00007936

This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

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

PV 09553 (04/17)

** This is a 10-years renewal. There is no design change, nor any scope change. See attached appendix A for Scope of Registration.



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

THIS IS PART OF CRN
0C7928.5R3
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

Scope of Registration:

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

Parker is requesting a renewal of CRN 0C7928.5.5. 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) 0C7928.5ADD2 issued July 3, 2019. This scope of registration is in support of an application to renew the CRN for the named products.

Attached are:

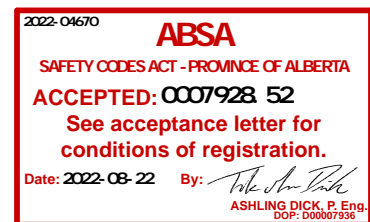
- The catalog for each series of regulators
- A copy of the previous approved design submission
- The Quality certification for the one (1) manufacturing locations
- Appendix A: Scope of Registration

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

Respectfully,

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



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Appendix A: Scope of Registration (Taken from Report 2021-0C7928.5)

IR4000 Series Products (Page 3 of Report 2021-0C7928.5):

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 2021-0C7928.5)

AVR4 Vaporizing Regulator, Electric (page 6 of Report 2021-0C7928.5)

Product Specification Summary:

Materials of Construction:

316L Stainless Steel, ASTM A276 S31603

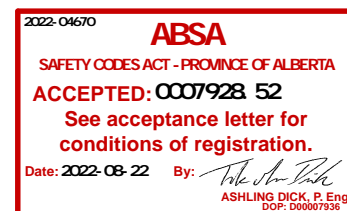
Monel R405, ASTM B164 N04405

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



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Date: October 11, 2021
Reference: Parker Logo Markings

- 1 Primary
Corporate Signature
Minimum Size $\frac{5}{8}$ "



- 2 Small Size
Corporate Signature
Maximum Size $\frac{5}{8}$ "



- 3 Linear
Corporate Signature



- 4 Straight Type
Identification—
Helvetica Light

Parker

- 5 Small Size "P"
Maximum Size $\frac{3}{16}$ "

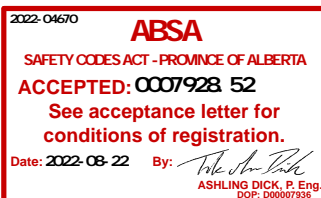


- 6 Linear "P"



- 7 Straight Type "P"
Identification—
Helvetica Light

P



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THIS IS PART OF CRN
0C7928.5R3

Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program