

May 09, 2013

Tanya Francis
TECHNICAL STANDARDS & SAFETY AUTHORITY
3300 BLOOR STREET WEST
14 FLOOR CENTRE TOWER
TORONTO, ON M8X 2X4

Dear Tanya Francis,

The design submission, tracking number 2012-00975, originally received on February 15, 2012 was surveyed and accepted for registration as follows:

CRN : 0C07928.52

Accepted on: May 09, 2013

Reg Type : Addition to Acc. Fitting

Expiry Date: January 26, 2022

Drawing No. : IR4000,IR6000,NPR4000 SERIES

Fitting Desc: REGULATORS

Design registered in the name of : PARKER HANNIFIN - VERIFLO

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

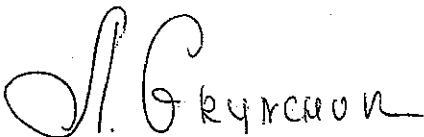
This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form. This registration is valid only until the indicated expiry date only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

Renewal and addition of new products.

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

Enclosed are stamped prints for your reference.

Sincerely,



GRYNCHUK, MILLA
Design Survey Engineer



14th Floor, Centre Tower
3300 Bloor Street West
Toronto, Ontario
Canada M8X 2X4
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

June 12, 2013

SUSAN TURNER
PARKER HANNIFIN CANADA INC
4635 DURHAM RD S
GRIMSBY ON L3M 4G4
CA

Service Request Type.: BPV-National AB
Service Request No.: 734236
Your Reference No.: RENEWAL IR4000ET ALL
Registered to.: PARKER HANNIFIN CANADA INC

Dear SUSAN TURNER,

Please find enclosed the original response from AB, registered under the CRN No.: 0C07928.52.

As all jurisdictional fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly.

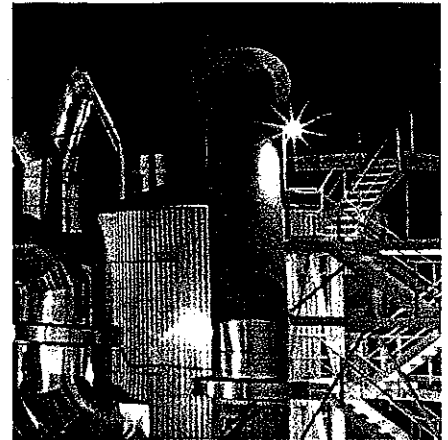
Should you have any questions or require further assistance, I will be happy to assist you. For general enquiries, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Tanya Francis
Administrative Assistant_ BPV Engineering
Tel. : 416-734-3423
Fax : 416-231-6183
Email : tfrancis@tssa.org

IR4000 Series

316L SS, Single Stage, General Purpose Internally Threadless Regulator

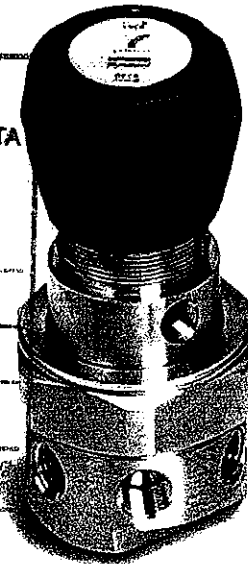


Customer Value Proposition:

The IR4000 Series regulator offers high pressure capability with an inlet pressure up to 4,000 psig. The large convoluted Hastelloy C-22® diaphragm provides stable pressure control over the operational range of the regulator.

Close tolerances and tight alignment of moving components minimize hysteresis and improve cycle life. Convoluted, Hastelloy C-22® diaphragm provides high corrosion resistance and increases cycle life.

ABA	
SAFETY CODES ACT - PROVINCE OF ALBERTA	
REGISTRATION OF FITTINGS	
REGISTRATION NO.	0C07928.52
DWG. NO. or CAT. NO.	Renewal
TYPE OF FITTINGS	Regulators
DATE	MAY 09 2012
INITIALS	
MILLA GRYNCHUK, P.Eng. DESIGN SURVEY ENGINEER	



0C07928.52

Contact Information:

Parker Hannifin Corporation
Veriflo Division
 250 Canal Blvd
 Richmond, California 94804

phone 510 235 9590
 fax 510 232 7396
 veriflo.sales@parker.com

www.parker.com/veriflo

Product Features:

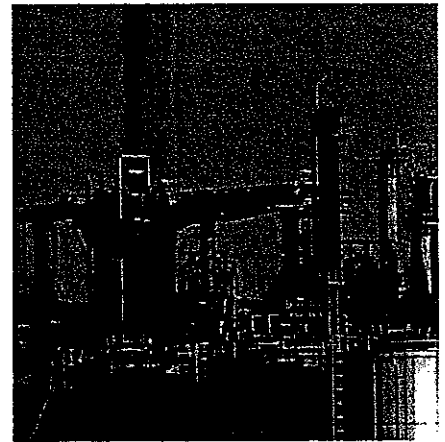
- Unique patented compression member loads the seal to the body without requiring a threaded nozzle or additional seals.
- Internally threadless design reduces particle generation. Low internal volume reduces purge times.
- Cleaned for O₂ service is standard.
- Positive upward and downward stops increase cycle life by preventing over stroking of the diaphragm.
- Selection of seat materials for media compatibility and temperature applications.
- Express Service Program available noted in *blue italic print*.



ENGINEERING YOUR SUCCESS.

IR6000 Series

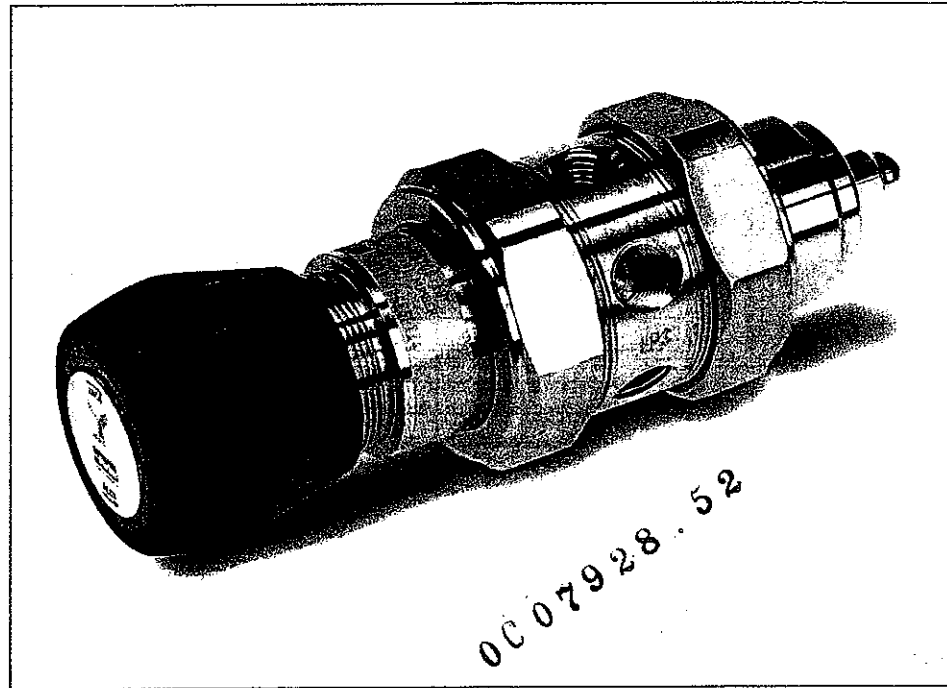
316L SS, Two Stage, General Purpose
Internally Threadless Regulator



Customer Value Proposition:

The IR6000 Series regulator offers high pressure capability with an inlet pressure up to 4,000 psig. The large convoluted Hastelloy C-22[®] diaphragm provides stable pressure control over the operational range of the regulator.

Close tolerances and tight alignment of moving components minimize hysteresis and improve cycle life. Convoluted, Hastelloy C-22[®] diaphragm provides high corrosion resistance and increases cycle life.



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Product Features:

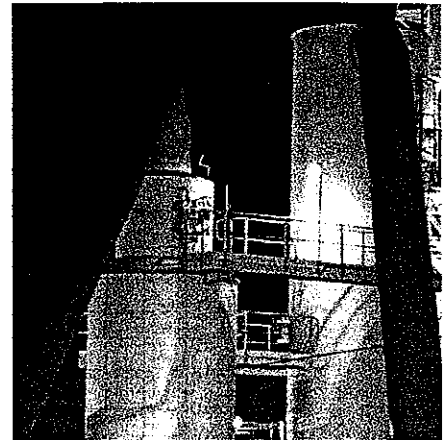
- Unique compression member loads the seal to the body without requiring a threaded nozzle or additional seals.
- Internally threadless design reduces particle generation. Low internal volume reduces purge times.
- Cleaned for O₂ service is standard.
- Positive upward and downward stops increase cycle life by preventing over stroking of the diaphragm.
- Selection of seat materials for media compatibility and temperature applications.
- Express Service Program available noted in *blue italic print*.



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NPR4100 Series

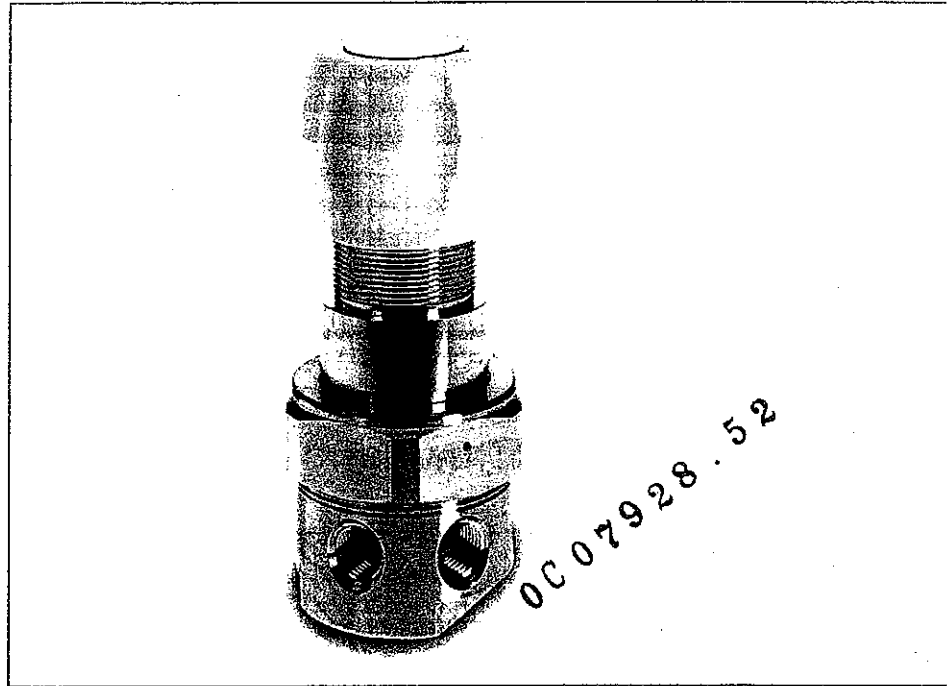
Negative Pressure Regulator



Customer Value Proposition:

The NPR4100 Series regulator offers negative delivery pressures with the use of low pressure gas sources. This regulator is specifically designed to regulate negative pressures down to -26 in. Hg vacuum (100 Torr).

Close tolerances and tight alignment of moving components minimize hysteresis and improve cycle life. Convuluted, Hastelloy C-22® diaphragm provides high corrosion resistance and increases cycle life.



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Product Features:

- Unique patented compression member loads the seal to the body without requiring a threaded nozzle or additional seals.
- Internally threadless design reduces particle generation. The low internal volume reduces purge times.
- Cleaned for O₂ service is standard.
- Positive upward and downward stops increase cycle life by preventing over stroking of the diaphragm.
- Selection of seat materials for media compatibility and temperature applications.
- Unique carrier design disperses gas uniformly through the regulator to improve purging.



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AVR3 Series

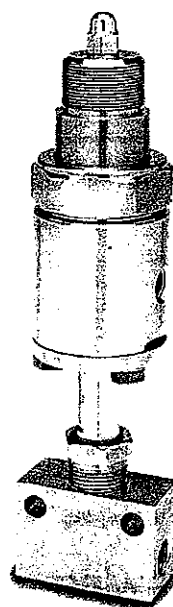
Steam Heated Pressure Reducing Vaporizing Regulator



Customer Value Proposition:

The AVR3 Series regulator is designed to heat and/or vaporize a gas or liquid sample before entering an analyzer system.

The unique design allows the user to disassemble the regulator and heat transfer components for complete cleaning and repair of the unit, thus reducing expensive replacement costs and down time.



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Product Features:

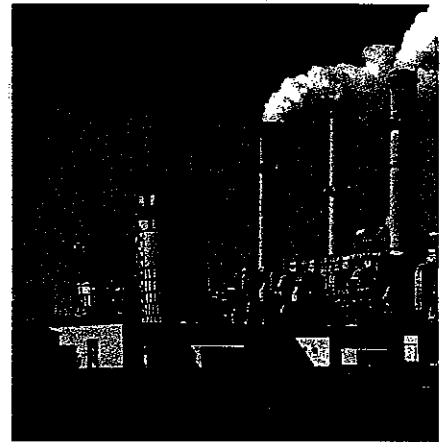
- Ultra low internal volume.
- Cleaned for O₂ service is standard.
- Convoluted Hastelloy C-22® diaphragm for superior strength and corrosion resistance provides outlet pressure stability with changes in flow.
- Integral diaphragm stop provides additional measure of safety.
- Field serviceable heat transfer element.
- Express Service Program is available for standard configurations -See *ESP options in blue italic print.*



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AVR4 Series

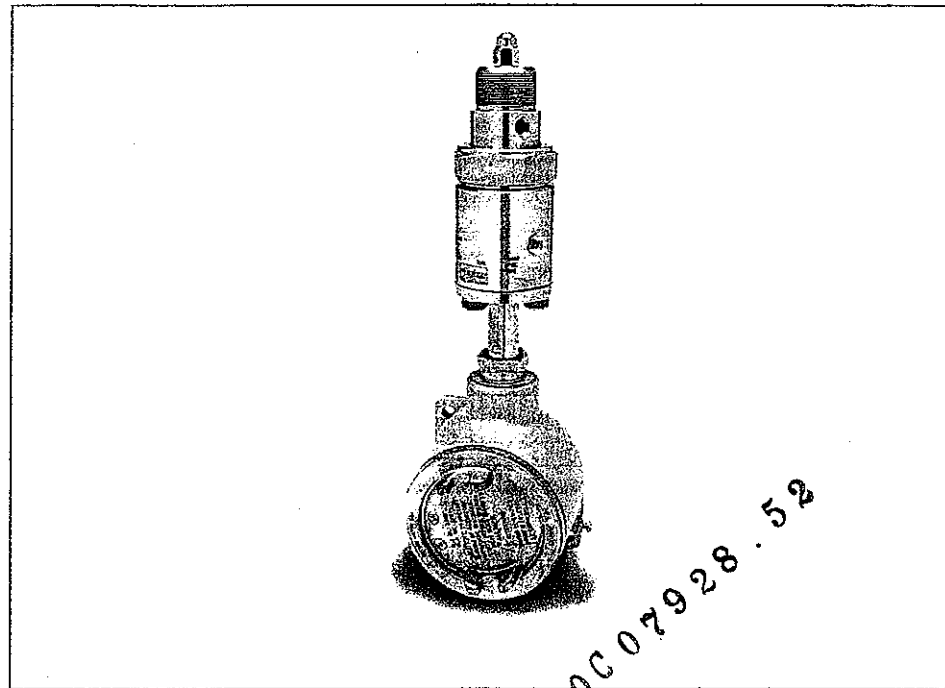
Electrically Heated Pressure Reducing Vaporizing Regulator



Customer Value Proposition:

The AVR4 Series regulator is designed to heat and/or vaporize a gas or liquid sample before entering an analyzer system.

This unique design allows the user to disassemble the regulator and heat transfer components for complete cleaning and repair of the unit, thus reducing expensive replacement costs and down time.



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Product Features:

- Ultra low internal volume.
- CSA, CE-ATEX certified.
- Cleaned for O₂ service is standard.
- Convuluted Hastelloy C-22® diaphragm for superior strength and corrosion resistance provides outlet pressure stability with changes in flow.
- Field serviceable heat transfer element.
- TCO (Thermal cut-out) is standard for all heat ranges.
- Integral diaphragm stop provides additional measure of safety.
- Express Service Program is available for standard configurations -See *ESP options in blue italic print.*



ENGINEERING YOUR SUCCESS.



ABSA
the pressure equipment safety authority
STATUTORY DECLARATION
Registration of Fittings



I, Joseph J. Lis,

Division Engineering Manager
(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)

of Parker Hannifin Corporation - Veriflo Division
(name of manufacturer)

located at 250 Canal Blvd, Richmond, CA, 94804, USA
(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

- comply with the requirements of _____ which specifies the dimensions, (title of recognized North American Standard) materials of construction, pressure/temperature ratings and identification marking of the fittings, or
- are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with Veriflo Engr Standards as supported by the attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, DNV Certification, Inc. as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Category C

In support of this application, the following information, calculations and/or test data are attached:
CRN Renewal for IR4000, IR4200, IR4000W, IR6000, IR6200, NPR4100, AVR3 AVR4 pressure regulators - Included: Original Report; Catalog Sheets; Product material comparison spreadsheet, Original proof pressure calcs; Proof pressure test results derived from approved CRN; etc

DECLARED before me at Richmond in the State of California

this 11 day of 11, 2011
(Month) (Year)

(print) _____
(sign) _____ (Signature of Applicant)
PLEASE SEE ATTACHED CALIFORNIA JURAT
(A Commissioner for Oaths)

For Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category C

Registration Number: 0C07928.52

Date Registered: MAY 09 2013

(For the Administrator/Chief Inspector of Alberta)
Expiry Date: 2022-01-26