

May 17, 2024

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

The design submission, Tracking Number 2024-02346, Web Portal Number 2024-S1617, originally received on April 18, 2024 was surveyed and accepted for registration as follows:

CRN : 0C15806.52 **Accepted on:** May 17, 2024
Reg Type: RENEWAL **Expiry Date:** March 15, 2034
Drawing No. : ECN 97-0526 Rev 23 As Noted
Fitting type: CONCOA 80X659X SERIES - GAS REGULATORS
Design registered in the name of : CONTROLS CORPORATION OF AMERICA

Description	MAWP	Design Temperature
See Notes		

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

- Please note that this registration is renewal of CRN only. Registration does not cover product additions, material or design changes.
- Please note that item 15 gauge will be excluded from this registration. It shall be registered with separate CRNs
- This registration has been issued based on the understanding that:
 - Code of Construction is ASME B31.3 and proof testing is per ASME B31.3;
 - the pressure rating for the gas regulators are:(1)Inlet pressure for all regulators on this drawing is 200 psig max; (2)Outlet pressures are listed in the table on this drawing; (3)Temperature rating is -40°C to 60°C;
 - the inlet burst pressure is 22000 psi and the outlet burst pressure is 3400 psi , which meets the requirement of UG-101(m),UG-101(k)and UG-101(i) for MAWP of inlet and outlet;
 - corrosion allowance is 0.

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.



the pressure equipment safety authority

9410 - 20 Ave N.W.
Edmonton, Alberta, Canada T6N 0A4
Tel: (780) 437-9100 / Fax: (780) 437-7787

May 17, 2024

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 (403) 291-7070 ext 2201 or fax (403) 291-4545 or e-mail Zhangl@absa.ca.

Sincerely,

A handwritten signature in black ink, appearing to read 'Lili Zhang', is written over a horizontal line.

ZHANG, LILI, P. Eng.

DOP Cert. No. D00010626



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

Show facsimile of mark or trademark, as it will appear on the product or service below



STATUTORY DECLARATION Registration of Fittings

I, John Friedrichs

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

of Controls Corporation of America

(Name of Manufacturer)

Located at 1501 Harpers Road, Virginia Beach, VA 23454 U.S.A.

(Plant Address)

757-422-8330

(Telephone No.)

757-422-3125

(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 4x burst pressure 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 which has been verified by the following authority, Perry Johnson Registrars.

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

(drawings, calculations, test reports, etc.)

Declared before me at CONCOA in the CITY of VA BEACH

the 8th day of January AD 2024.

Commissioner for Oaths:

MIRIAM DURAN

(Printed name)

Miriam Duran

(Signature)

Miriam Duran
NOTARY PUBLIC
Commonwealth of Virginia
Reg. # 8026938
My Commission Expires 2/28/2026

[Signature]
(Signature of Declarer)

FOR OFFICE USE ONLY

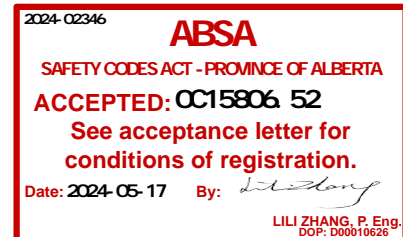
To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category C.

CRN: _____

Registered by: _____

Dated: _____

NOTE: This registration expires on: 2024-03-15

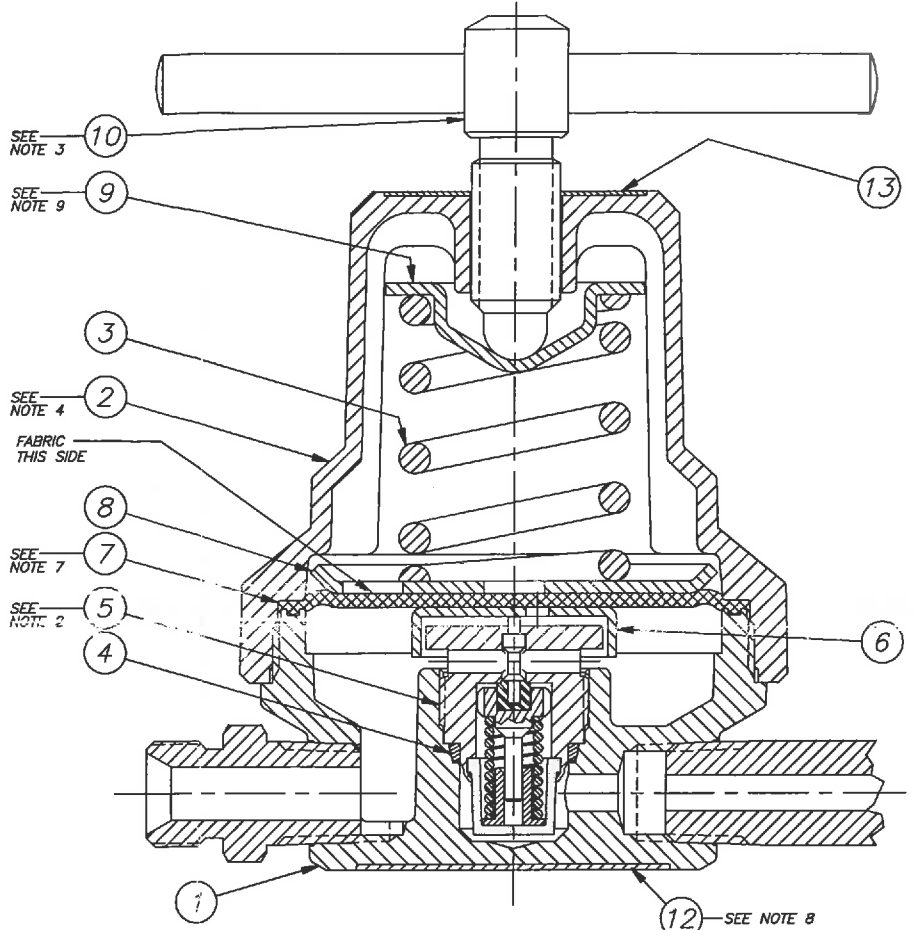
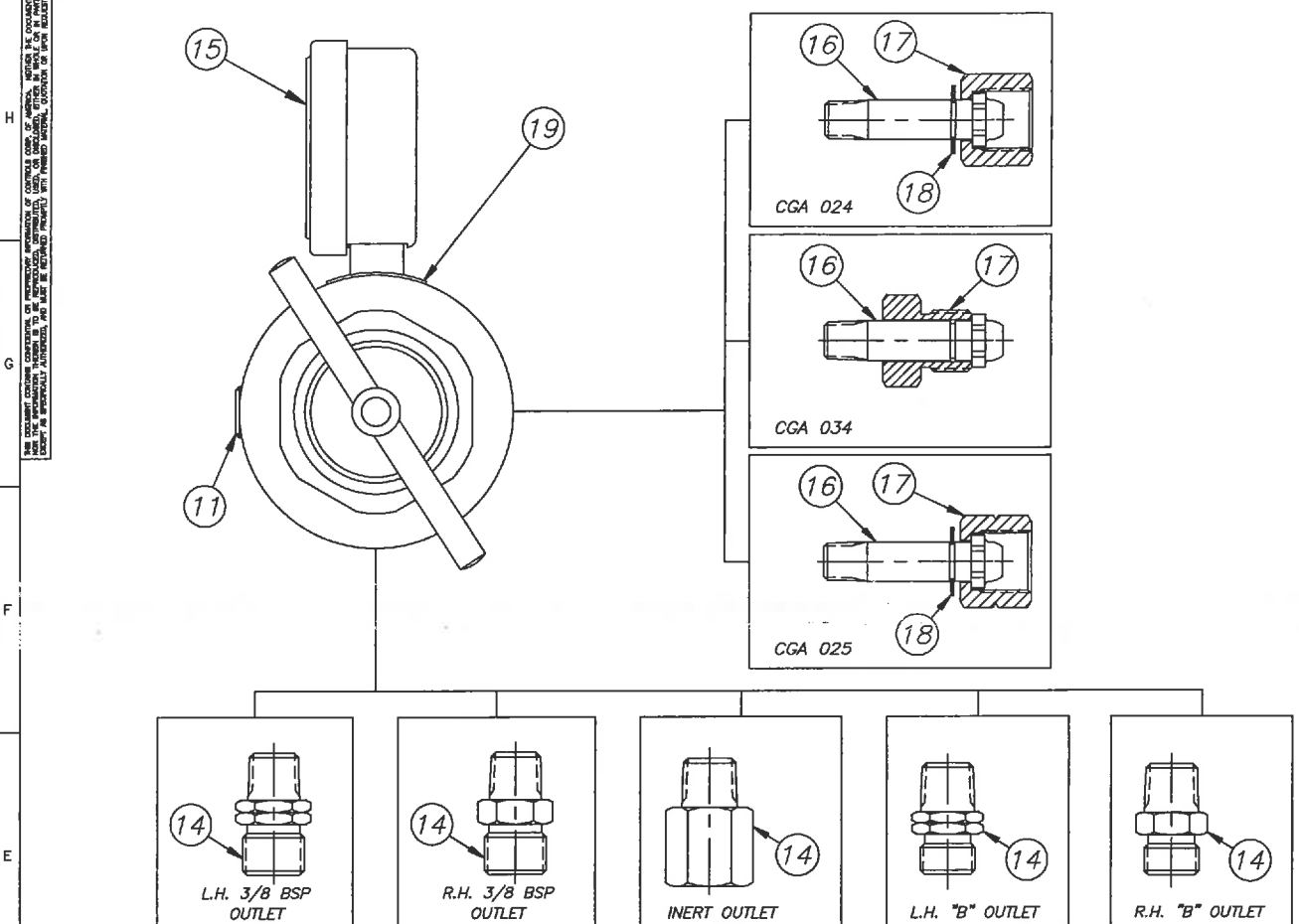


This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

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

2024-02346

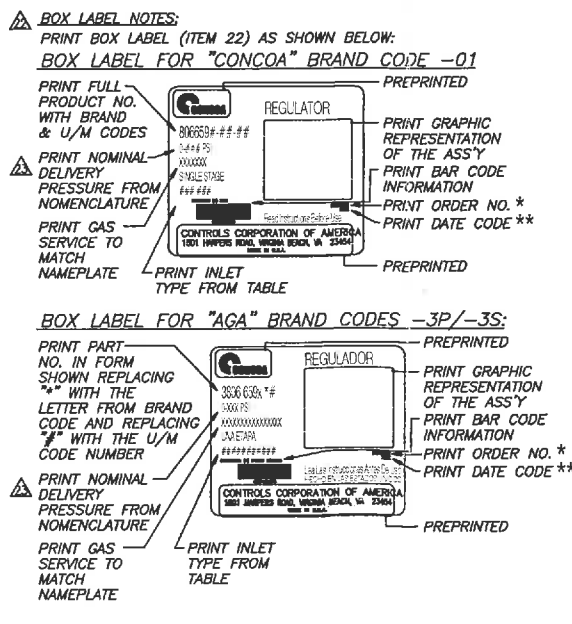
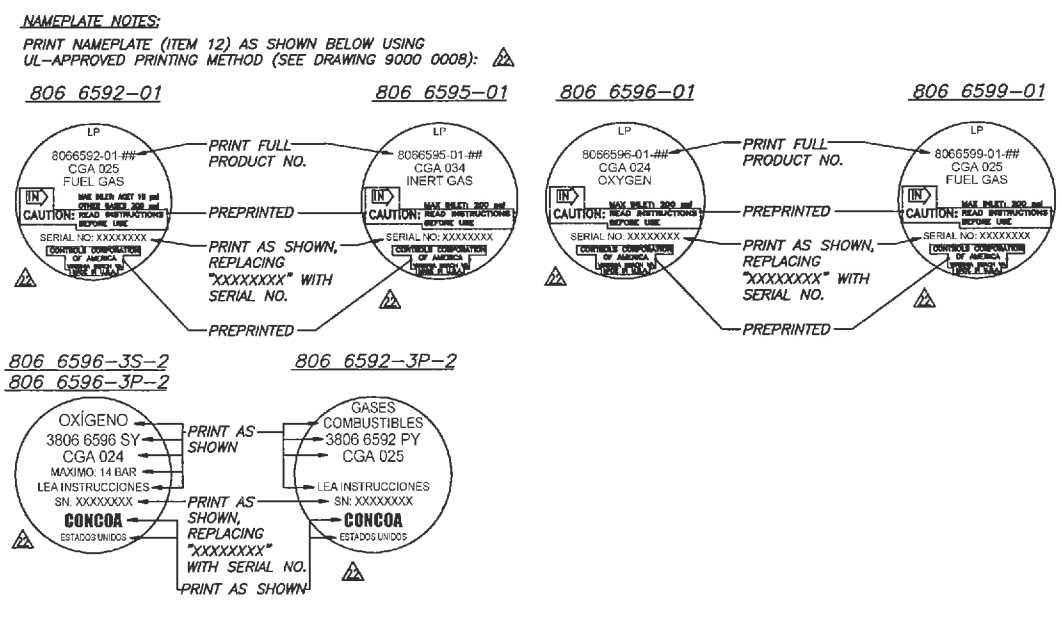
THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION OF CONTROLS CORPORATION OF AMERICA. IT IS TO BE KEPT SECRET AND NOT DISCLOSED TO ANY OTHER PERSON OR ORGANIZATION WITHOUT THE WRITTEN PERMISSION OF CONTROLS CORPORATION OF AMERICA. ANY UNAUTHORIZED DISCLOSURE OF THIS INFORMATION IS A VIOLATION OF FEDERAL LAWS AND MAY BE PROSECUTED AS SUCH.



- NOTES:
1. SEAL ALL PIPE FITTINGS WITH TEFLON TAPE.
 2. TORQUE CAPSULE (ITEM 5) TO 35-42 FT-LBS (420-500 IN-LBS).
 3. DIP THREADS OF ADJUSTING SCREW (ITEM 10) IN BEESWAX SOLUTION PRIOR TO ASS'Y.
 4. TORQUE BONNET (ITEM 2) TO 50 FT-LBS MINIMUM.
 5. TEST IN ACCORDANCE WITH TEST PROCEDURE #2000 USING THE FOLLOWING PARAMETERS:
ORIFICE SIZE ----- #72 (#.025)
INLET PRESSURE ----- 260-280 PSI
MAXIMUM OUTLET PRESSURE - SEE TABLE
STATIC INCREMENT ----- SEE TABLE
(INITIAL OUTLET CONDITION = MAX DELIVERY PRESSURE FLOWING THROUGH A (#72) ORIFICE)
 6. SPACER, 830 5980, MAY BE USED BETWEEN THE ADJUSTING SPRING AND PIVOT IF THERE IS INSUFFICIENT ADJUSTING SCREW LENGTH TO ACHIEVE DESIRED PRESSURE SETTING, PROVIDED ADDITION OF SPACER DOES NOT RESULT IN A ZERO LEAK CONDITION.
 7. IF NECESSARY, ADD 830 4859 SHIM BETWEEN BONNET AND DIAPHRAGM TO PREVENT DIAPHRAGM LEAKS.
 8. PRINT NAMEPLATE (ITEM 12) WITH INFORMATION PROVIDED IN NAMEPLATE NOTES.
 9. APPLY LITHIUM GREASE TO RECESS OF PIVOT (ITEM 9).

REVISIONS						PT NO
NO	ECN NUMBER	DESCRIPTION	INITIALS	DATE	APPROVED	
21	02-0217	MOVED FROM REV. 4 D-SIZE - ADDED "SEE NOTE 9" TO RUBBER 9	AEM	4/18/2002		806 6592
22	09-009	CHANGES WERE 2" 842021, 00200, 0018, 0034, & 0010, ADD PPS & LBL INFORMATION	AEM	1/7/2010	A. Whitaker 12/16/2008	
23	11-013	BOX LABELS WERE PRINTED WITH MIN DELIVERY PRESS SETTING INSTEAD OF MAXIMUM PRESSURE	AEM	1/24/2011	A. Whitaker 1/25/2011	

PACKAGED PRODUCTS - MAY BE MADE OPTIONALLY BY ADDING PACKAGING TO UNPACKAGED SUBASS'YS																						
BASE NO.	- BRAND CODE	- U/M CODE	CUSTOMER	NOMENCLATURE	SERVICE	REGULATOR INLET CONNECTION				15 OUTLET GAUGE	16 OUTLET FITTING	13 BONNET LABEL	12 NAMEPLATE	19 U.L. LABEL	3 ADJUSTING SPRING	OUTLET PRESSURE	MAX. STATIC INCREMENT	PACKAGING				
						INLET TYPE	16 GLAND	17 NUT	18 RETAINING RING									20 CARTON QTY 1	21 INSERT QTY 1	22 BOX LABEL QTY 1	23 ENCAPS. SEAT LABEL QTY 1	24 ADI QTY 1
806 6592 - 01 - 1	STANDARD	"CONCOA"	REG, SSTG_BRS_CGA025_15PSI_LH-B	FUEL GAS 15 PSI	CGA 025	830 5664	803 0038	9226 0057	841 0003 (30 PSI) Δ	803 0007 (L.H. "B")	830 5767	830 6545	830 3180	830 5571	15-30 PSI	4 PSI	9903 9117	9903 9124	9901 6286	9901 6315	9906 1608	-----
806 6592 - 3P - 2	"AGA" PERU	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	FUEL GAS 15 PSI	CGA 025	830 5664	803 0038	9226 0057	841 0539 (2 BAR)	830 5091 (L.H. 3/8 BSP)	830 5112	830 6852	-----	830 5571	15-30 PSI	4 PSI	9903 9182	9903 9124	9901 6286	9901 6315	9906 3049	803 5162	
806 6595 - 01 - 1	STANDARD	"CONCOA"	REG, SSTG_BRS_CGA034_100PSI_INRTB	INERT GAS 100 PSI	CGA 034	830 5664	803 0283	-----	841 0005 (200 PSI) Δ	803 0257 (INERT OUTLET)	830 5777	830 6545	830 3180	830 5573	120-200 PSI	6 PSI	9903 9117	9903 9124	9901 6286	9901 6315	9906 1608	-----
806 6596 - 01 - 1	STANDARD	"CONCOA"	REG, SSTG_BRS_CGA024_100PSI_RH-B	OXYGEN 100 PSI	CGA 024	830 5664	803 0037	9226 0057	841 0005 (200 PSI) Δ	803 0006 (R.H. "B")	830 5788	830 6545	830 3180	830 5573	120-200 PSI	6 PSI	9903 9117	9903 9124	9901 6286	9901 6315	9906 1608	-----
806 6596 - 3P - 2	"AGA" PERU	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	OXYGEN 100 PSI	CGA 024	830 5664	803 0037	9226 0057	841 0538 (14 BAR)	830 5090 (R.H. 3/8 BSP)	830 5112	830 6852	-----	830 5573	120-200 PSI	6 PSI	9903 9182	9903 9124	9901 6286	9901 6315	9906 3049	803 5161	
806 6596 - 3S - 2	STANDARD	"AGA"	REG, SSTG_BRS_CGA024_100PSI_RH-B	OXYGEN 100 PSI	CGA 024	830 5664	803 0037	9226 0057	841 0538 (14 BAR) Δ	803 0006 (R.H. "B")	830 5112	830 6852	-----	830 5573	120-200 PSI	6 PSI	9903 9182	9903 9124	9901 6286	9901 6315	9906 3049	-----
806 6599 - 01 - 1	STANDARD	"CONCOA"	REG, SSTG_BRS_CGA025_40PSI_LH-B	FUEL GAS 40 PSI	CGA 025	830 5664	803 0038	9226 0057	841 0014 (100 PSI) Δ	803 0007 (L.H. "B")	830 5769	830 6545	830 3180	830 5572	40-90 PSI	5 PSI	9903 9117	9903 9124	9901 6286	9901 6315	9906 1608	-----



- PACKAGING NOTES:
1. PLACE THE REGULATOR ASSEMBLY INTO INSERT (ITEM 21).
 2. FOR MODELS WITH HOSE BARB KIT (ITEM 25), SEAL HOSE BARB KIT IN 3" x 5" POLY BAG.
 3. PLACE THE ASSEMBLY + INSERT, HOSE BARB KIT (IF PRESENT), AND ADI (ITEM 24) INTO CARTON (ITEM 20).
 4. CLOSE THE CARTON, AND APPLY BOX LABEL (ITEM 22).
 5. APPLY ENCAPSULATED SEAT LABEL (ITEM 23) TO RIGHT SIDE OF BOX.
- * FACTORY ORDER NO. OR OTHER REFERENCE NO. (i.e., RMA, REWORK, etc.).
- ** DATE CODE (DATE THE LABEL WAS PRINTED) IN THE FORM OF YYWW (YY IS THE 2 DIGIT YEAR, WW IS THE WEEK OF THE YEAR).

2024-02346

ABSA

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: 0C15806 52

See acceptance letter for conditions of registration.

Date: 2024-05-17 By: *[Signature]*

LILI ZHANG, P. Eng.
DOP: 000010626

ITEM	PART NO	QTY	MATERIAL / DESCRIPTION
25	SEE TABLE	1	HOSE BARB KIT
24	SEE TABLE	1	ADI
23	SEE TABLE	1	ENCAPSULATED SEAT LABEL
22	SEE TABLE	1	BOX LABEL
21	SEE TABLE	1	INSERT
20	SEE TABLE	1	CARTON
19	SEE TABLE	1	U.L. LABEL
18	SEE TABLE	1	RING, RETAINING
17	SEE TABLE	1	NUT, INLET
16	SEE TABLE	1	GLAND, INLET
15	SEE TABLE	1	GAUGE, OUTLET
14	SEE TABLE	1	OUTLET FITTING
13	SEE TABLE	1	LABEL, BONNET
12	SEE TABLE	1	NAMEPLATE
11	9225 0008	1	PIPE PLUG, 1/4 NPT BRASS
10	830 5629	1	SCREW, TEE
9	830 5575	1	PIVOT
8	830 5570	1	PLATE, DIAPHRAGM
7	830 5569	1	DIAPHRAGM (C-SIZE)
6	830 5513	1	CAP
5	830 5584	1	CAPSULE, #4.8 (TEFLON SEAT)
4	830 5830	1	O-RING, TEFLON CAPSULE SEAL
3	SEE TABLE	1	SPRING, ADJUSTING
2	830 5568	1	BONNET, CHROME PLATED
1	830 5688	1	BODY, 4 PORT

CONTROL CORPORATION OF AMERICA

PRODUCT ENGINEERING DEPARTMENT

VERONA, NEW JERSEY, 07066

806 6592, 806 6595, 806 6598, & 806 6599

REG, SSTG_BRS_XXXXXX

XXXXPSI_XXXXXX

(FOR X's IN TITLE, SEE NOMENCLATURE COLUMN OF TABLE)

DATE: 4/8/2002

BY: *[Signature]*

806 6592

806 6595, 806 6598, & 806 6599

ECN 97-0526

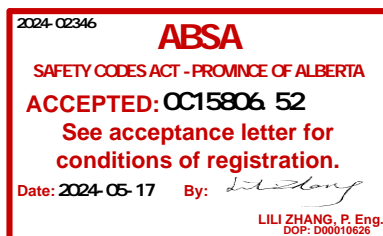
CONCOA CRN Testing Summary Sheet

Package 1 - Type C
80X659X

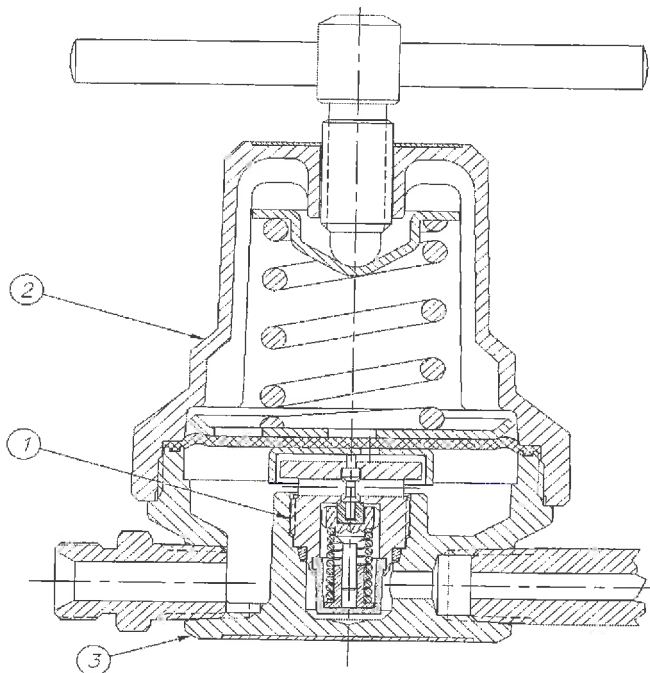
Scope: 80X659X Series Compressed Gas Regulators (flowmeters on some models shall require a separate valid CRN) Note: Total internal volume is well under 1.5 cu. ft.

Item	CRN / Test Data / Exclusions
1	Capsule
2	Bonnet
3	Body
Tested as assembly - see attached burst test data	

Sketch:



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.



Note:

Test results reflect testing of the highest rated inlet and outlet pressures of the entire series - testing the components with the thinnest wall thickness and weakest materials (worst case items in the design). All models in scope have same body and bonnet geometry, same materials of construction, same or lower pressure ratings, and the same temperature ratings as the tested item.

POINT OF USE EQUIPMENT



6590 Series Pipeline Regulator

Medium-Heavy Duty Heating and Cutting at Point of Use

Advanced Features

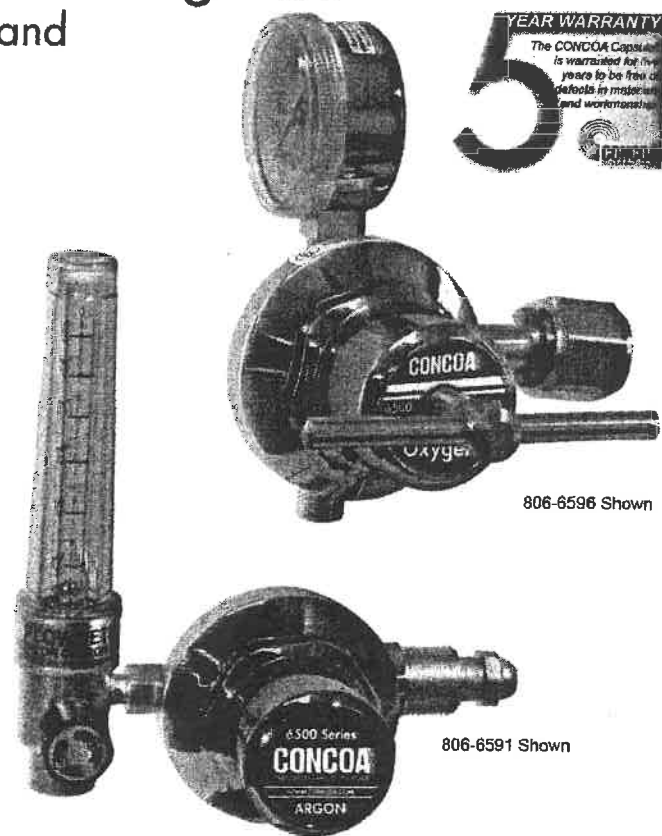
- **2.5" (63mm) Convuluted Neoprene® Diaphragm**
Steady pressure control
- **Medium-Large Seat Displacement**
Good flow capacity
- **Capsule® Seat Assembly**
High cycle life

Material

- Forged Brass Body
- PTFE Seat
- 20-35 Micron Bronze Capsule® Filter

Specification

- 200 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-6596 Shown

806-6591 Shown

Gas Service	Stock Number	Inlet CGA	Delivery PSIG	Outlet Fittings	Fits Station Valve*
Oxygen	806-6596	024	0-120 PSIG	9/16"-18 "B" RH Int.	801-0233
Acetylene, Propylene, Propane, Natural Gas	806-6592	025	0-15 PSIG	9/16"-18 "B" LH Int.	801-0601
Propylene, Propane, Natural Gas	806-6599	025	0-40 PSIG	9/16"-18 "B" LH Int.	801-0601
Oil Free Inert, Argon-Nitrogen, Helium-CO ₂	806-6595	034	0-120 PSIG	5/8"-18"B" RH Int.	801-0034

Gas Service	Stock Number	Inlet CGA	Flowrate CFH	Outlet Fittings	Fits Station Valve*
Argon, CO ₂	806-6591	034	Argon: 10-60/CO ₂ : 10-55	5/8"-18"B" RH Int.	801-0034
Argon, Helium	806-6597	034	Argon: 10-60/Helium: 30-200	5/8"-18"B" RH Int.	801-0034
	806-6590 (Gas Saver)	034	Argon: 10-60/Helium: 30-200	5/8"-18"B" RH Int.	801-0034
Argon, CO ₂	806-6594 (Dual Flowmeter)	034	Argon: 10-60/CO ₂ : 10-55	5/8"-18"B" RH Int.	801-0034

Note: Acetylene should not be used over 15 PSIG

* Not included. See page 45.

CONCOA • 1501 Harpers Road, Virginia Beach, Virginia 23454 USA
800.225.0473 • www.CONCOA.com

Top Level	Top Level Description	Part Number	Description	Inlet Pressure Rating	Outlet Pressure Rating	Existing CRN?	Existing CRN Inlet Pressure Rating	Existing CRN Outlet Pressure Rating	Dimensions	Material
8066590	Regulator	8305504	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8066590	Regulator	8305568	Bonnet	30 psig	30 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8066590	Regulator	8305624	Body	200 psig	30 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8066591	Regulator	8305504	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8066591	Regulator	8305568	Bonnet	30 psig	30 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8066591	Regulator	8305624	Body	200 psig	30 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8066592	Regulator	8305568	Bonnet	15 psig	15 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8066592	Regulator	8305584	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8066592	Regulator	8305688	Body	200 psig	15 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8066594	Regulator	8305504	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8066594	Regulator	8305568	Bonnet	30 psig	30 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8066594	Regulator	8305624	Body	200 psig	30 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8066595	Regulator	8305568	Bonnet	100 psig	100 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8066595	Regulator	8305584	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8066595	Regulator	8305688	Body	200 psig	100 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8066596	Regulator	8305568	Bonnet	100 psig	100 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8066596	Regulator	8305584	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8066596	Regulator	8305688	Body	200 psig	100 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8066597	Regulator	8305504	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8066597	Regulator	8305568	Bonnet	30 psig	30 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8066597	Regulator	8305624	Body	200 psig	30 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8066599	Regulator	8305568	Bonnet	40 psig	40 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8066599	Regulator	8305584	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8066599	Regulator	8305688	Body	200 psig	40 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8056590-AL-024B	Regulator	8305568	Bonnet	135 psig	135 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8056590-AL-024B	Regulator	8305584	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8056590-AL-024B	Regulator	8305688	Body	200 psig	135 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8056590-AL-024C	Regulator	8305568	Bonnet	135 psig	135 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8056590-AL-024C	Regulator	8305584	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8056590-AL-024C	Regulator	8305688	Body	200 psig	135 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8056590-AL-025	Regulator	8305568	Bonnet	70 psig	70 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8056590-AL-025	Regulator	8305584	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8056590-AL-025	Regulator	8305688	Body	200 psig	70 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8056590-AL-025B	Regulator	8305568	Bonnet	15 psig	15 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8056590-AL-025B	Regulator	8305584	Capsule	15 psig	15 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8056590-AL-025B	Regulator	8305688	Body	15 psig	15 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8056590-AL-025C	Regulator	8305568	Bonnet	15 psig	15 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8056590-AL-025C	Regulator	8305584	Capsule	15 psig	15 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8056590-AL-025C	Regulator	8305688	Body	15 psig	15 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8056590-AL-034	Regulator	8305568	Bonnet	135 psig	135 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8056590-AL-034	Regulator	8305584	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8056590-AL-034	Regulator	8305688	Body	200 psig	135 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8056590-AL-510	Regulator	8305568	Bonnet	60 psig	60 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8056590-AL-510	Regulator	8305584	Capsule	400 psig	400 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8056590-AL-510	Regulator	8305688	Body	400 psig	60 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700



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Toll Free: 1.877.682.8772

www.tssa.org

March 15, 2024

CONTROLS CORPORATION OF AMERICA
1501 HARPERS RD
VIRGINIA BEACH VA 23454

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 14231938
Your Reference No.: FITTING RENEWAL 0C15806.5 - NATIONAL SERVICE
Registered to: CONTROLS CORPORATION OF AMERICA

Dear JOHN FRIEDRICHS,

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

CRN : 0C15806.5R1
Main Design No.: CONCOA 80X659X Series Compressed Gas Regulators
Expiry Date: Mar 15, 2034

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

1. Renewal of CRN only. Registration does not cover product additions, material or design changes 2. Code of Construction is ASME B31.3 3. Flowmeters and pressure gauges are excluded from the scope of this registration

The stamped copy of the approved registration and the invoice are mailed separately (There will be no hard copies for electronic submissions). 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,

Shreyas Madhuranath M.Eng, P.Eng
Engineer, BPV



REGISTRATION OF A PRESSURE FITTING DESIGN

May 9, 2024

TSSA
345 Carlingview Dr.
Toronto, ON
Canada
M9W 6N9

Attention: Cecylia Garbacz

File Number: 100785

Re: Manufacturer: Controls Corporation of America
Item: Regulators
Catalog or Drawing: Per CONCOA Summary Sheet 80X659X & Product Drawing and Catalog

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

OC15806.53

Expiry Date: 2034-03-15

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,

Athan Syrgiannis, P.Eng.

Codes and Standards Compliance

Remarks:

Conditional upon compliance with the notes on the TSSA registration.

Code of Construction: ASME B31.3

A valid quality control program must be maintained at the production facility for the fitting registration to remain valid until the expiry date.

ATTN: TSSA BPV NATIONAL REGISTRATION
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON M9W 6N9

Date: 23-May-2024
TSBC Account #: 061440
TSBC Admin Number: 107039
Canadian Registration Number: 0C15806.51

Re: Application for Design Registration

The design, as detailed in your Design Portal application 0C15806.5R1 - Controls Corporation of America for a Pressure Fitting is registered with the following notes and considerations:

Registered To:	Controls Corporation of America
Project Name:	0C15806.5R1 - Controls Corporation of America
Drawing #:	CONCOA 80X659X Series Compressed Gas Regulators
Drawing Revision:	N/A

Conditions of Registration:

(1) Fitting Registration Expiry Date: 15-Mar-2034 (2) The registration is valid 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 quality management system lapse before the expiry date indicated above, this registration shall become void.

Reviewer's Notes:

Any additional conditions and considerations from the initial province of registration shall apply to this BC registration.

Full details of this submission including the scope of registration, design conditions, fabrication details, and calculations pertaining to this design are located in the above Admin Number on the Design Portal. For all other enquiries, please contact eim@technicalsaftybc.ca.

The Engineering Information Management Team



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

Show facsimile of mark
appear



or trademark, as it will
appear below

STATUTORY DECLARATION Registration of Fittings

I, John Friedrichs

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

of Controls Corporation of America

(Name of Manufacturer)

Located at 1501 Harpers Road, Virginia Beach, VA 23454 U.S.A.

(Plant Address)

757-422-8330

(Telephone No.)

757-422-3125

(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 4x burst pressure 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 which has been verified by the following authority, Perry Johnson Registrars.

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

(drawings, calculations, test reports, etc.)

Declared before me at CONCOA in the CITY of VA BEACH
the 8th day of January AD 2024.

Commissioner for Oaths:

MIRIAM DURAN

(Printed name)

Miriam Duran

(Signature)

Miriam Duran
NOTARY PUBLIC
Commonwealth of Virginia
Reg. # 8026938
My Commission Expires 2/28/2026

[Signature]
(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 _____.

CRN: _____

Registered by: _____

Dated: _____

 **Technical
Safety Authority
of Saskatchewan**

Registration No. 0C15806.53

File No. 100785

Registered

Date: May 9, 2024

Expiry Date: March 15, 2034

Codes & Standards Compliance Office

NOTE: This registration expires on: _____

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

CONCOA CRN Testing Summary Sheet

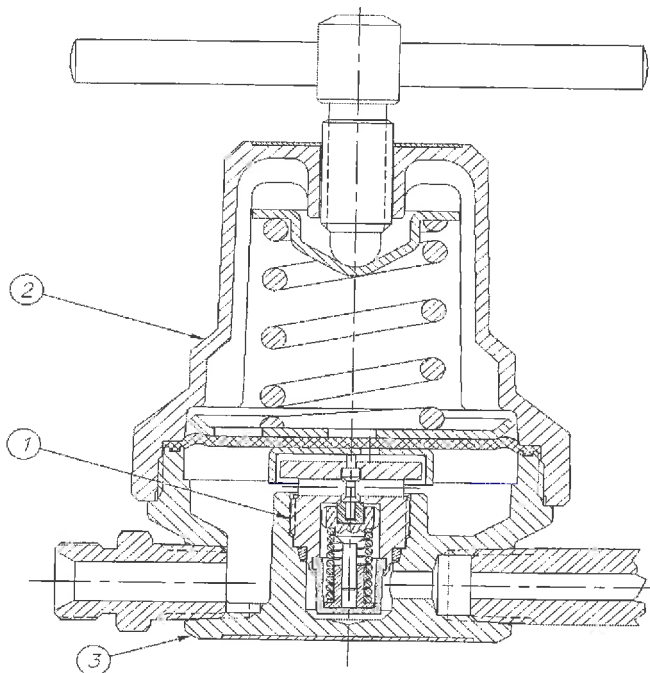
Package 1 - Type C
80X659X

Scope: 80X659X Series Compressed Gas Regulators (flowmeters on some models shall require a separate valid CRN) Note: Total internal volume is well under 1.5 cu. ft.

Item	CRN / Test Data / Exclusions
1	Capsule
2	Bonnet
3	Body
Tested as assembly - see attached burst test data	

	
Technical Safety Authority of Saskatchewan	
Registration No.	0C15806.53
File No.	100785
	Registered
Date:	May 9, 2024
Expiry Date:	March 15, 2034
Codes & Standards Compliance Office	

Sketch:



Note: Test results reflect testing of the highest rated inlet and outlet pressures of the entire series - testing the components with the thinnest wall thickness and weakest materials (worst case items in the design). All models in scope have same body and bonnet geometry, same materials of construction, same or lower pressure ratings, and the same temperature ratings as the tested item.

POINT OF USE EQUIPMENT



6590 Series Pipeline Regulator

Medium-Heavy Duty Heating and Cutting at Point of Use

Advanced Features

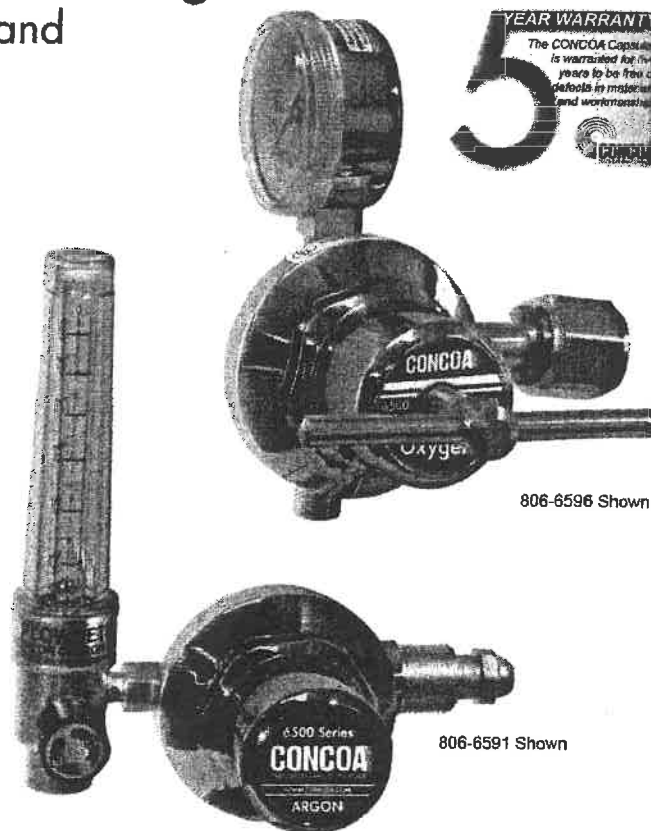
- **2.5" (63mm) Convuluted Neoprene® Diaphragm**
Steady pressure control
- **Medium-Large Seat Displacement**
Good flow capacity
- **Capsule® Seat Assembly**
High cycle life

Material

- Forged Brass Body
- PTFE Seat
- 20-35 Micron Bronze Capsule® Filter

Specification

- 200 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-6596 Shown

806-6591 Shown

Gas Service	Stock Number	Inlet CGA	Delivery PSIG	Outlet Fittings	Fits Station Valve*
Oxygen	806-6596	024	0-120 PSIG	9/16"-18 "B" RH Int.	801-0233
Acetylene, Propylene, Propane, Natural Gas	806-6592	025	0-15 PSIG	9/16"-18 "B" LH Int.	801-0601
Propylene, Propane, Natural Gas	806-6599	025	0-40 PSIG	9/16"-18 "B" LH Int.	801-0601
Oil Free Inert, Argon-Nitrogen, Helium-CO ₂	806-6595	034	0-120 PSIG	5/8"-18"B" RH Int.	801-0034

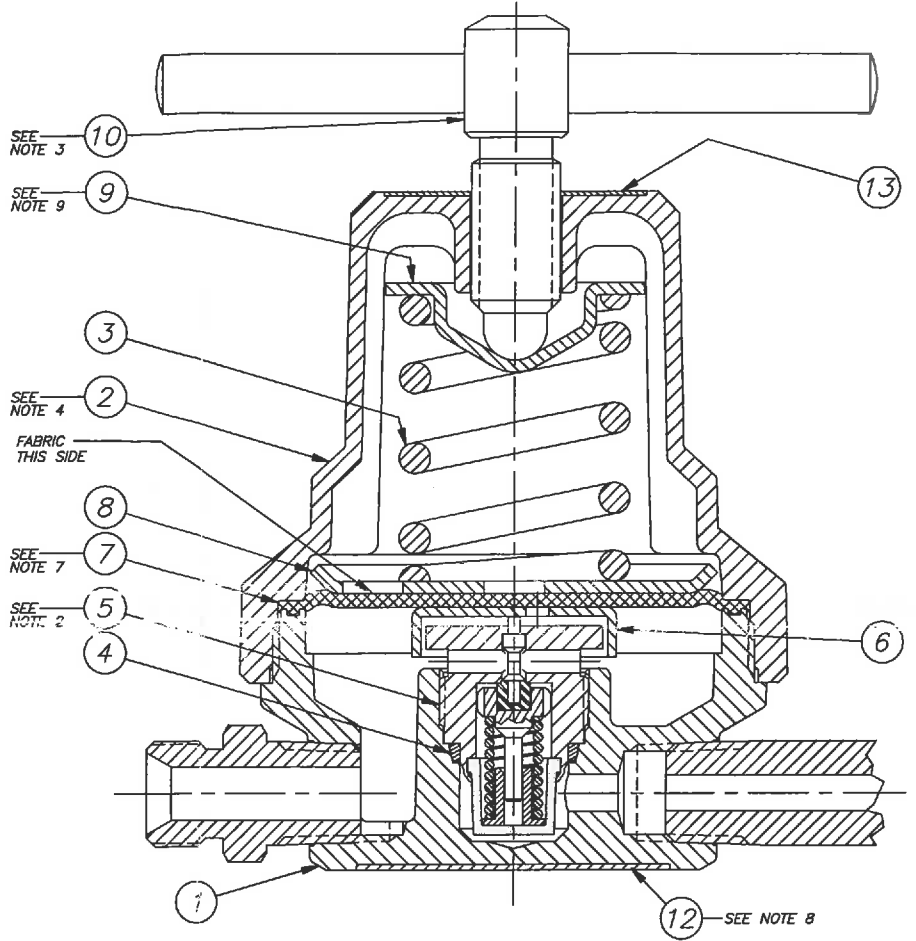
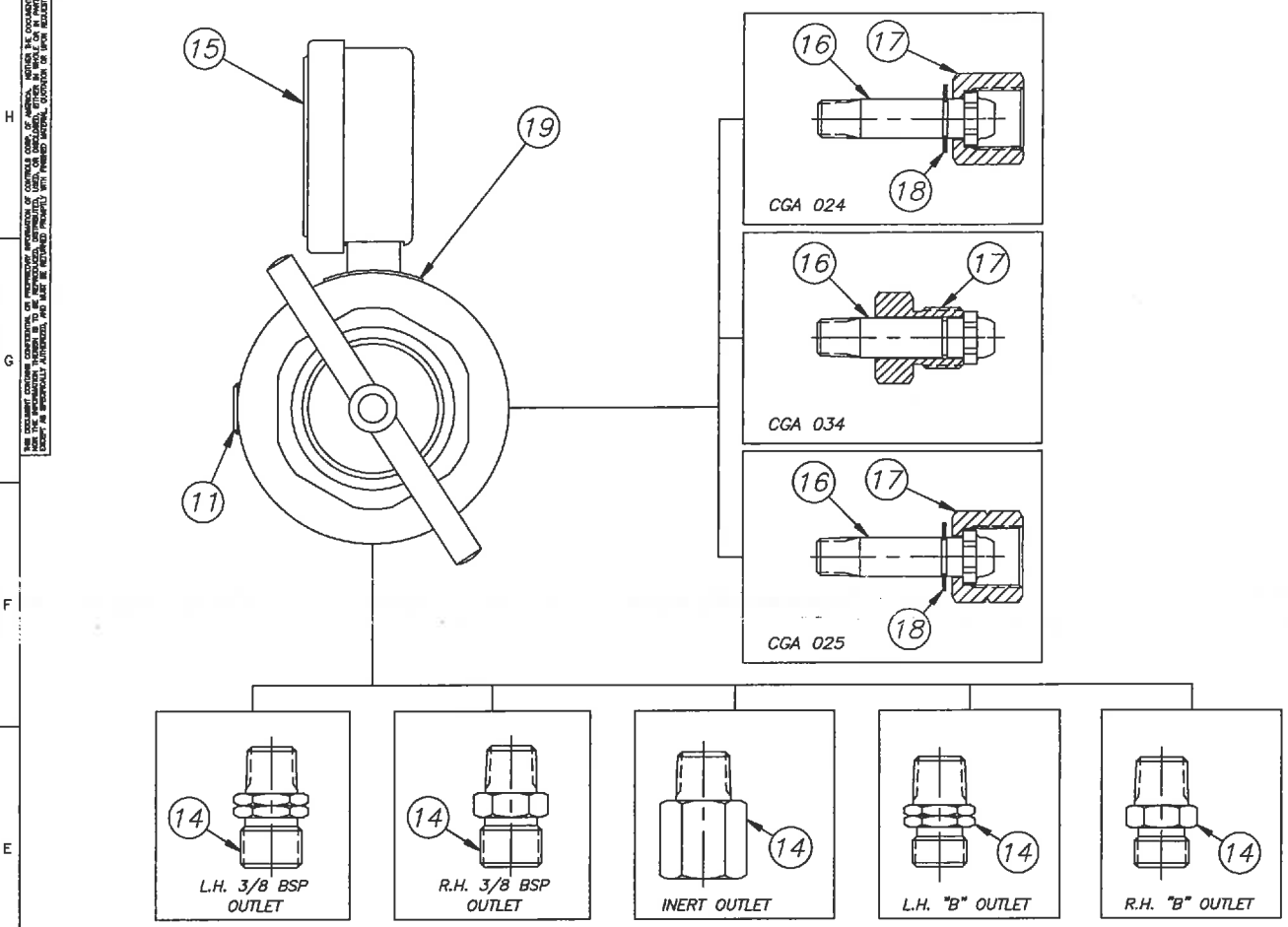
Gas Service	Stock Number	Inlet CGA	Flowrate CFH	Outlet Fittings	Fits Station Valve*
Argon, CO ₂	806-6591	034	Argon: 10-60/CO ₂ : 10-55	5/8"-18"B" RH Int.	801-0034
Argon, Helium	806-6597	034	Argon: 10-60/Helium: 30-200	5/8"-18"B" RH Int.	801-0034
	806-6590 (Gas Saver)	034	Argon: 10-60/Helium: 30-200	5/8"-18"B" RH Int.	801-0034
Argon, CO ₂	806-6594 (Dual Flowmeter)	034	Argon: 10-60/CO ₂ : 10-55	5/8"-18"B" RH Int.	801-0034

Note: Acetylene should not be used over 15 PSIG

* Not included. See page 45.

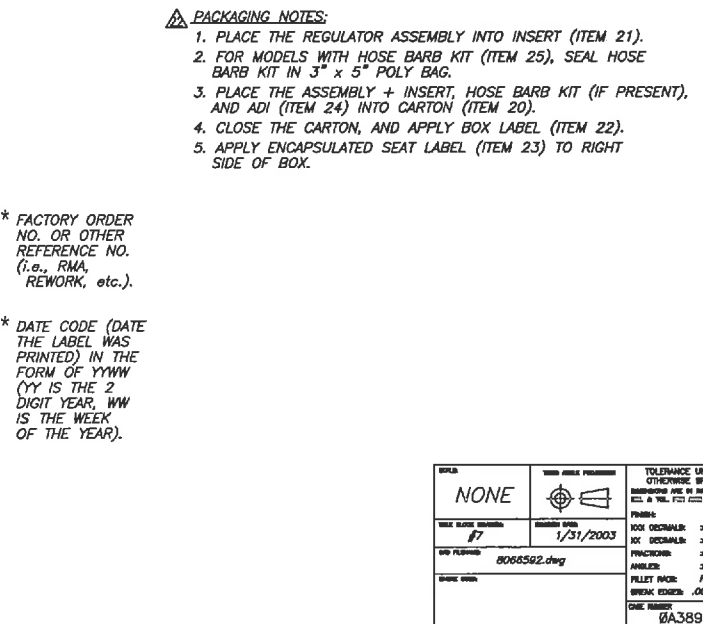
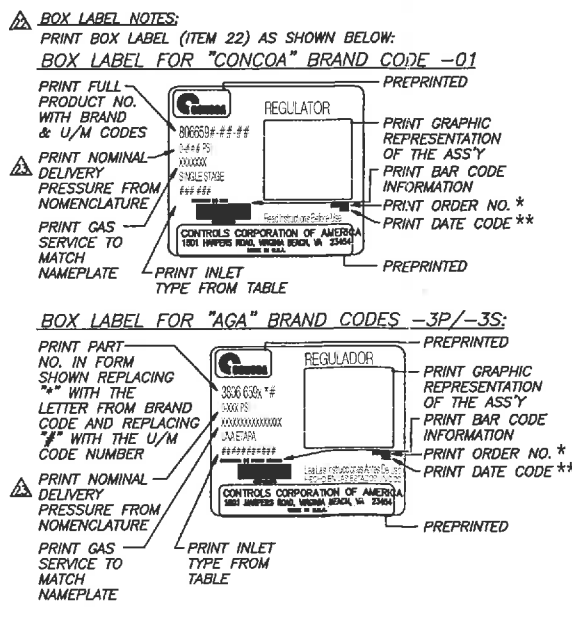
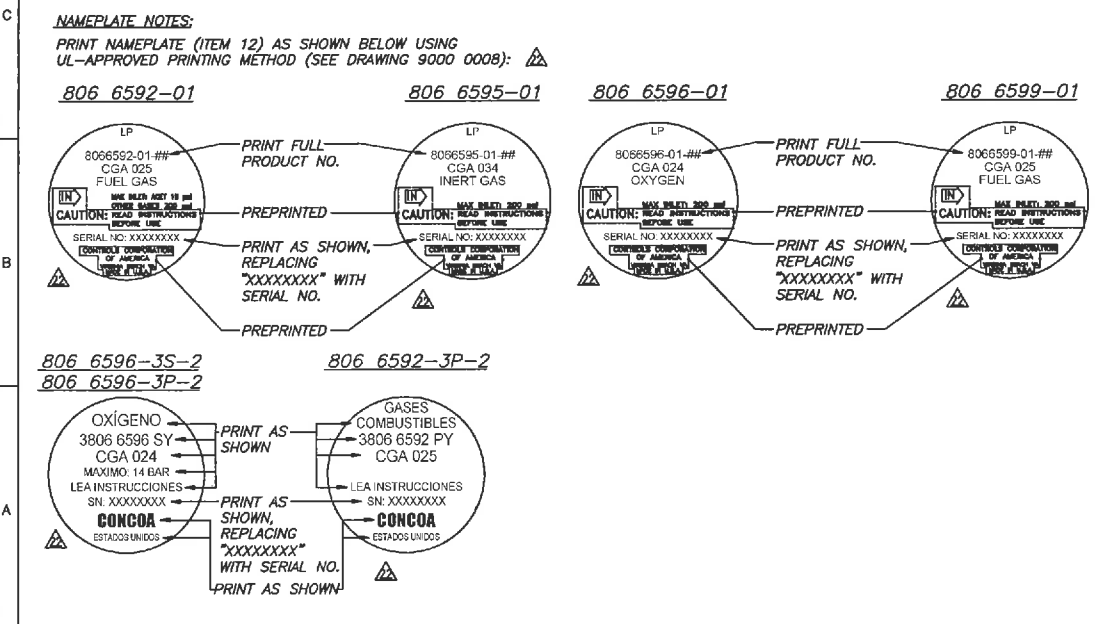
CONCOA • 1501 Harpers Road, Virginia Beach, Virginia 23454 USA
800.225.0473 • www.CONCOA.com

Top Level	Top Level Description	Part Number	Description	Inlet Pressure Rating	Outlet Pressure Rating	Existing CRN?	Existing CRN Inlet Pressure Rating	Existing CRN Outlet Pressure Rating	Dimensions	Material
8066590	Regulator	8305504	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8066590	Regulator	8305568	Bonnet	30 psig	30 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8066590	Regulator	8305624	Body	200 psig	30 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8066591	Regulator	8305504	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8066591	Regulator	8305568	Bonnet	30 psig	30 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8066591	Regulator	8305624	Body	200 psig	30 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8066592	Regulator	8305568	Bonnet	15 psig	15 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8066592	Regulator	8305584	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8066592	Regulator	8305688	Body	200 psig	15 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8066594	Regulator	8305504	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8066594	Regulator	8305568	Bonnet	30 psig	30 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8066594	Regulator	8305624	Body	200 psig	30 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8066595	Regulator	8305568	Bonnet	100 psig	100 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8066595	Regulator	8305584	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8066595	Regulator	8305688	Body	200 psig	100 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8066596	Regulator	8305568	Bonnet	100 psig	100 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8066596	Regulator	8305584	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8066596	Regulator	8305688	Body	200 psig	100 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8066597	Regulator	8305504	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8066597	Regulator	8305568	Bonnet	30 psig	30 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8066597	Regulator	8305624	Body	200 psig	30 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8066599	Regulator	8305568	Bonnet	40 psig	40 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8066599	Regulator	8305584	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8066599	Regulator	8305688	Body	200 psig	40 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8056590-AL-024B	Regulator	8305568	Bonnet	135 psig	135 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8056590-AL-024B	Regulator	8305584	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8056590-AL-024B	Regulator	8305688	Body	200 psig	135 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8056590-AL-024C	Regulator	8305568	Bonnet	135 psig	135 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8056590-AL-024C	Regulator	8305584	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8056590-AL-024C	Regulator	8305688	Body	200 psig	135 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8056590-AL-025	Regulator	8305568	Bonnet	70 psig	70 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8056590-AL-025	Regulator	8305584	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8056590-AL-025	Regulator	8305688	Body	200 psig	70 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8056590-AL-025B	Regulator	8305568	Bonnet	15 psig	15 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8056590-AL-025B	Regulator	8305584	Capsule	15 psig	15 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8056590-AL-025B	Regulator	8305688	Body	15 psig	15 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8056590-AL-025C	Regulator	8305568	Bonnet	15 psig	15 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8056590-AL-025C	Regulator	8305584	Capsule	15 psig	15 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8056590-AL-025C	Regulator	8305688	Body	15 psig	15 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8056590-AL-034	Regulator	8305568	Bonnet	135 psig	135 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8056590-AL-034	Regulator	8305584	Capsule	200 psig	200 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8056590-AL-034	Regulator	8305688	Body	200 psig	135 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700
8056590-AL-510	Regulator	8305568	Bonnet	60 psig	60 psig				M65 Bonnet to body thread	Zinc, UNS Z33520 per ASTM B-86-AG 40A
8056590-AL-510	Regulator	8305584	Capsule	400 psig	400 psig				M20 Capsule to body thread	Brass, UNS C36000 per ASTM B-16
8056590-AL-510	Regulator	8305688	Body	400 psig	60 psig				M65 Bonnet x M20 capsule	Brass, UNS C37700



- NOTES:
1. SEAL ALL PIPE FITTINGS WITH TEFLON TAPE.
 2. TORQUE CAPSULE (ITEM 5) TO 35-42 FT-LBS (420-500 IN-LBS).
 3. DIP THREADS OF ADJUSTING SCREW (ITEM 10) IN BEESWAX SOLUTION PRIOR TO ASS'Y.
 4. TORQUE BONNET (ITEM 2) TO 50 FT-LBS MINIMUM.
 5. TEST IN ACCORDANCE WITH TEST PROCEDURE #2000 USING THE FOLLOWING PARAMETERS:
ORIFICE SIZE ----- #72 (#.025)
INLET PRESSURE ----- 260-280 PSI
MAXIMUM OUTLET PRESSURE - SEE TABLE
STATIC INCREMENT ----- SEE TABLE
(INITIAL OUTLET CONDITION = MAX DELIVERY PRESSURE FLOWING THROUGH A #72 ORIFICE)
 6. SPACER, 830 5980, MAY BE USED BETWEEN THE ADJUSTING SPRING AND PIVOT IF THERE IS INSUFFICIENT ADJUSTING SCREW LENGTH TO ACHIEVE DESIRED PRESSURE SETTING, PROVIDED ADDITION OF SPACER DOES NOT RESULT IN A ZERO LEAK CONDITION.
 7. IF NECESSARY, ADD 830 4859 SHIM BETWEEN BONNET AND DIAPHRAGM TO PREVENT DIAPHRAGM LEAKS.
 8. PRINT NAMEPLATE (ITEM 12) WITH INFORMATION PROVIDED IN NAMEPLATE NOTES.
 9. APPLY LITHIUM GREASE TO RECESS OF PIVOT (ITEM 9).

PACKAGED PRODUCTS - MAY BE MADE OPTIONALLY BY ADDING PACKAGING TO UNPACKAGED SUBASS'YS																								
BASE NO.	- BRAND CODE	- U/M CODE	CUSTOMER	NOMENCLATURE	SERVICE	REGULATOR INLET CONNECTION				15 OUTLET GAUGE	16 OUTLET FITTING	13 BONNET LABEL	12 NAMEPLATE	19 U.L. LABEL	3 ADJUSTING SPRING	OUTLET PRESSURE	MAX. STATIC INCREMENT	PACKAGING						
						INLET TYPE	16 GLAND	17 NUT	18 RETAINING RING									15 CARTON QTY 1 20	15 INSERT QTY 1 21	15 BOX LABEL QTY 1 22	15 ENCAPS. SEAT LABEL QTY 1 23	15 ADI QTY 1 24	15 HOSE BARB KIT QTY 1 25	
806 6592 - 01 - 1	STANDARD		"CONCOA"	REG, SSTG_BRS__CGA025_15PSI_LH-B	FUEL GAS 15 PSI	CGA 025	830 5664	803 0038	9226 0057	841 0003 (30 PSI) A	803 0007 (L.H. "B")	830 5767	830 6545	830 3180	830 5571	15-30 PSI	4 PSI	9903 9117	9903 9124	9901 6286	9901 6315	9906 1608	-----	
806 6592 - 3P - 2	"AGA"	PERU	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	CGA 025		830 5664	803 0038	9226 0057	841 0539 (2 BAR) A	830 5091 (L.H. 3/8 BSP)	830 5112	830 6852	-----	830 5571	15-30 PSI	4 PSI	9903 9182	9903 9124	9901 6286	9901 6315	9906 3049	803 5162		
806 6595 - 01 - 1	STANDARD		"CONCOA"	REG, SSTG_BRS__CGA034_100PSI_INRTB	INERT GAS 100 PSI	CGA 034	830 5664	803 0283	-----	841 0005 (200 PSI) A	803 0257 (INERT OUTLET)	830 5777	830 6545	830 3180	830 5573	120-200 PSI	6 PSI	9903 9117	9903 9124	9901 6286	9901 6315	9906 1608	-----	
806 6596 - 01 - 1	STANDARD		"CONCOA"	REG, SSTG_BRS__CGA024_100PSI_RH-B	OXYGEN 100 PSI	CGA 024	830 5664	803 0037	9226 0057	841 0005 (200 PSI) A	803 0006 (R.H. "B")	830 5768	830 6545	830 3180	830 5573	120-200 PSI	6 PSI	9903 9117	9903 9124	9901 6286	9901 6315	9906 1608	-----	
806 6596 - 3P - 2	"AGA"	PERU	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	CGA 024		830 5664	803 0037	9226 0057	841 0538 (14 BAR) A	830 5090 (R.H. 3/8 BSP)	830 5112	830 6852	-----	830 5573	120-200 PSI	6 PSI	9903 9182	9903 9124	9901 6286	9901 6315	9906 3049	803 5161		
806 6596 - 3S - 2	STANDARD		"AGA"	REG, SSTG_BRS_CGA024_100PSI_RH-B	FUEL GAS 40 PSI	CGA 024	830 5664	803 0037	9226 0057	841 0538 (14 BAR) A	803 0006 (R.H. "B")	830 5112	830 6852	-----	830 5573	120-200 PSI	6 PSI	9903 9182	9903 9124	9901 6286	9901 6315	9906 3049	-----	
806 6599 - 01 - 1	STANDARD		"CONCOA"	REG, SSTG_BRS__CGA025_40PSI_LH-B		CGA 025	830 5664	803 0038	9226 0057	841 0014 (100 PSI) A	803 0007 (L.H. "B")	830 5769	830 6545	830 3180	830 5572	40-90 PSI	5 PSI	9903 9117	9903 9124	9901 6286	9901 6315	9906 1608	-----	



REVISIONS				INITIALS		DATE		APPROVED	
NO	ECN NUMBER	DESCRIPTION	INITIALS	DATE	APPROVED				
21	02-0217	MOVED FROM REV. 4 D-SIZE - ADDED "SEE NOTE 9" TO TABLE 8	AEM	4/18/2002					
22	09-009	CHANGES WERE 2" DIA/201, 0020, 0018, 0034, & 0010, ADD PRO & LBL INFORMATION	AEM	1/7/2010	A. Whitaker 12/16/2008				
23	11-013	BOX LABELS WERE PRINTED WITH MIN DELIVERY PRESS SETTING INSTEAD OF MAXIMUM PRESSURE	AEM	1/24/2011	A. Whitaker 1/25/2011				

ITEM	PART NO	QTY	MATERIAL / DESCRIPTION
25	SEE TABLE	1	HOSE BARB KIT
24	SEE TABLE	1	ADI
23	SEE TABLE	1	ENCAPSULATED SEAT LABEL
22	SEE TABLE	1	BOX LABEL
21	SEE TABLE	1	INSERT
20	SEE TABLE	1	CARTON
19	SEE TABLE	1	U.L. LABEL
18	SEE TABLE	1	RING, RETAINING
17	SEE TABLE	1	NUT, INLET
16	SEE TABLE	1	GLAND, INLET
15	SEE TABLE	1	GAUGE, OUTLET
14	SEE TABLE	1	OUTLET FITTING
13	SEE TABLE	1	LABEL, BONNET
12	SEE TABLE	1	NAMEPLATE
11	9225 0008	1	PIPE PLUG, 1/4 NPT BRASS
10	830 5629	1	SCREW, TEE
9	830 5575	1	PIVOT
8	830 5570	1	PLATE, DIAPHRAGM
7	830 5569	1	DIAPHRAGM (C-SIZE)
6	830 5513	1	CAP
5	830 5584	1	CAPSULE, #4.8 (TEFLON SEAT)
4	830 5830	1	O-RING, TEFLON CAPSULE SEAL
3	SEE TABLE	1	SPRING, ADJUSTING
2	830 5568	1	BONNET, CHROME PLATED
1	830 5688	1	BODY, 4 PORT

806 6592-01-1	REG, SSTG_BRS_CGA025_15PSI_LH-B	806 6595-01-1	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-01-1	REG, SSTG_BRS_CGA034_100PSI_INRTB	806 6599-01-1	REG, SSTG_BRS_CGA025_40PSI_LH-B
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP

806 6592-01-1	REG, SSTG_BRS_CGA025_15PSI_LH-B	806 6595-01-1	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-01-1	REG, SSTG_BRS_CGA034_100PSI_INRTB	806 6599-01-1	REG, SSTG_BRS_CGA025_40PSI_LH-B
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP

806 6592-01-1	REG, SSTG_BRS_CGA025_15PSI_LH-B	806 6595-01-1	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-01-1	REG, SSTG_BRS_CGA034_100PSI_INRTB	806 6599-01-1	REG, SSTG_BRS_CGA025_40PSI_LH-B
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP

806 6592-01-1	REG, SSTG_BRS_CGA025_15PSI_LH-B	806 6595-01-1	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-01-1	REG, SSTG_BRS_CGA034_100PSI_INRTB	806 6599-01-1	REG, SSTG_BRS_CGA025_40PSI_LH-B
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP

806 6592-01-1	REG, SSTG_BRS_CGA025_15PSI_LH-B	806 6595-01-1	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-01-1	REG, SSTG_BRS_CGA034_100PSI_INRTB	806 6599-01-1	REG, SSTG_BRS_CGA025_40PSI_LH-B
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP

806 6592-01-1	REG, SSTG_BRS_CGA025_15PSI_LH-B	806 6595-01-1	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-01-1	REG, SSTG_BRS_CGA034_100PSI_INRTB	806 6599-01-1	REG, SSTG_BRS_CGA025_40PSI_LH-B
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP

806 6592-01-1	REG, SSTG_BRS_CGA025_15PSI_LH-B	806 6595-01-1	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-01-1	REG, SSTG_BRS_CGA034_100PSI_INRTB	806 6599-01-1	REG, SSTG_BRS_CGA025_40PSI_LH-B
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP

806 6592-01-1	REG, SSTG_BRS_CGA025_15PSI_LH-B	806 6595-01-1	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-01-1	REG, SSTG_BRS_CGA034_100PSI_INRTB	806 6599-01-1	REG, SSTG_BRS_CGA025_40PSI_LH-B
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP

806 6592-01-1	REG, SSTG_BRS_CGA025_15PSI_LH-B	806 6595-01-1	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-01-1	REG, SSTG_BRS_CGA034_100PSI_INRTB	806 6599-01-1	REG, SSTG_BRS_CGA025_40PSI_LH-B
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP

806 6592-01-1	REG, SSTG_BRS_CGA025_15PSI_LH-B	806 6595-01-1	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-01-1	REG, SSTG_BRS_CGA034_100PSI_INRTB	806 6599-01-1	REG, SSTG_BRS_CGA025_40PSI_LH-B
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP

806 6592-01-1	REG, SSTG_BRS_CGA025_15PSI_LH-B	806 6595-01-1	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-01-1	REG, SSTG_BRS_CGA034_100PSI_INRTB	806 6599-01-1	REG, SSTG_BRS_CGA025_40PSI_LH-B
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP

806 6592-01-1	REG, SSTG_BRS_CGA025_15PSI_LH-B	806 6595-01-1	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-01-1	REG, SSTG_BRS_CGA034_100PSI_INRTB	806 6599-01-1	REG, SSTG_BRS_CGA025_40PSI_LH-B
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP
806 6596-3P-2	REG, SSTG_BRS_CGA024_100PSI_RH6BSP	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-3S-2	REG, SSTG_BRS_CGA024_100PSI_RH-B	806 6592-3P-2	REG, SSTG_BRS_CGA025_15PSI_LH6BSP

806 6592-01-1	REG, SSTG_BRS_CGA025_15PSI_LH-B	806 6595-01-1	REG, SSTG_BRS_CGA025_15PSI_LH6BSP	806 6596-01-1	REG, SSTG_BRS_CGA034_100PS
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Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
www.tssa.org

Show facsimile of mark
appear



or trademark, as it will
appear below

STATUTORY DECLARATION Registration of Fittings

I, John Friedrichs

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

of Controls Corporation of America

(Name of Manufacturer)

Located at 1501 Harpers Road, Virginia Beach, VA 23454 U.S.A.

(Plant Address)

757-422-8330

(Telephone No.)

757-422-3125

(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 4x burst pressure 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 which has been verified by the following authority, Perry Johnson Registrars.

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

(drawings, calculations, test reports, etc.)

Declared before me at CONCOA in the CITY of VA BEACH
the 8th day of January AD 2024.

Commissioner for Oaths:

MIRIAM DURAN

(Printed name)

Miriam Duran

(Signature)

Miriam Duran
NOTARY PUBLIC
Commonwealth of Virginia
Reg. # 8026938
My Commission Expires 2/28/2026

[Signature]
(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:



The stamp
size has
been
optimized
for 11 x 17
documents

1. Renewal of CRN only. Registration does not cover product additions, material or design changes
2. Code of Construction is ASME B31.3
3. Flowmeters and pressure gauges are excluded from the scope of this registration

Technical
Standards
and Safety
Authority

Boilers and
Pressure Vessels
Safety Program

REGISTERED

C.R.N.: 0C15806.5R1

Signed: [Signature]

Date: March 15, 2024.

NOTE: This registration expires on:

Mar 15, 2034

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

CONCOA CRN Testing Summary Sheet

Package 1 - Type C
80X659X

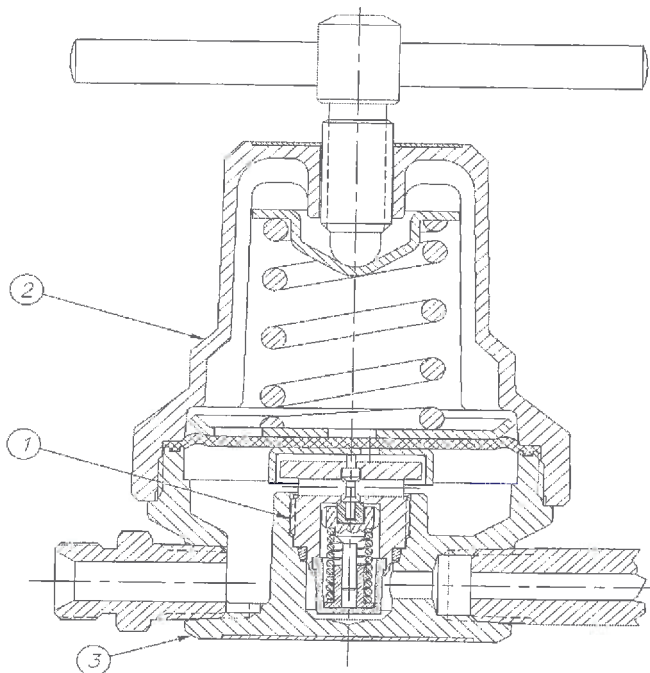
Scope: 80X659X Series Compressed Gas Regulators (flowmeters on some models shall require a separate valid CRN) Note: Total internal volume is well under 1.5 cu. ft.

Item	CRN / Test Data / Exclusions
1	Capsule
2	Bonnet
3	Body
Tested as assembly - see attached burst test data	

THIS IS PART OF CRN
0C15806.5R1
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

*See additional notes on the
registration letter

Sketch:



Note:

Test results reflect testing of the highest rated inlet and outlet pressures of the entire series - testing the components with the thinnest wall thickness and weakest materials (worst case items in the design). All models in scope have same body and bonnet geometry, same materials of construction, same or lower pressure ratings, and the same temperature ratings as the tested item.

May 24, 2024

TSSA
345 Carlingview Drive
Toronto, ON M9W 6N9

Dear Cecylia Garbacz,

Re: Reciprocal CRN Registration in Manitoba

As indicated by the Regulatory Reconciliation and Cooperation Table and the Reconciliation Agreement for the Canadian Registration Number (CRN) for Pressure Equipment, the design reviews conducted and accepted by the Canadian province or territory, or their delegated safety authority, will be mutually recognized in the Province of Manitoba. If a registration is conditionally based on compliance with the notes set by the original issuing Jurisdiction, such compliance shall be applied the same to this Province.

Your submission has been registered, as follows:

File Number:	74-R4070
CRN:	0C15806.54
Scope:	CONCOA 80X659X Series Compressed Gas Regulators
Manufacturer:	CONTROLS CORPORATION OF AMERICA
Expiry Date:	15 March 2034

Along with this letter is the invoice for registration.

In addition, every Pressure Vessel, Boiler, and Heat Exchanger shall be stamped with the registration number and as required by CSA Code B51, a Manufacturer's Data Report (MDR) must be forwarded to this office immediately at the time a unit is shipped to Manitoba. Send your MDR to gasupport@gov.mb.ca. In your subject line, indicate "*Manufacturer's Data Report-CRN No.*" A fee shall be billed to the Manufacturer to process data reports in accordance with the Steam and Pressure Plants Regulation section 17.1.

Please contact gasupport@gov.mb.ca for any questions or concerns.

Inspection and Technical Services

Labour and Immigration
508 – 401 York Avenue, Winnipeg, MB R3C 0P8
T (204) 945-3373 | F (204) 948-2089


UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick
Nunavut

Nova Scotia
Yukon

Prince Edward Island
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Controls Corporation of America	
Manufacturers Address: 1501 Harpers Road, Virginia Beach, VA 23454 U.S.A.	
Plant Locations: See above	
<p>Category of Fittings to be registered. Circle one Category only</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges; all flanges C Valves; all line valves D Expansion joints, flexible connections, and hose assemblies; all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over-pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC requirements)</p>	<p>Title of the Standard of Construction</p> <p>4x burst pressure</p>
<p>Show Manufacturers Name, Trademark, or Logo as it will appear</p> 	<p>Type of Construction</p> <p>Forged <input type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/> Cast <input type="checkbox"/> Other <input type="checkbox"/> Describe other: See attached</p>
<p>List of supporting documentation and identification of the actual items to be registered:</p> <p>Catalog Pages, Design Drawings, and Test Reports</p>	

Declaration:

I John Friedrichs [see note 3] employed by Controls Corporation of America and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by Perry Johnson Registrars as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: [Signature]

Declared before me at CONCOA - VA BEACH, VA

This 8th day of January AD 2024

Commissioner of Oaths

Or Notary Public: (sign) Miriam Duran

(Affix Official seal to the right)

Use this space for the Official Seal

Miriam Duran
NOTARY PUBLIC
Commonwealth of Virginia
Reg. # 8026938

My Commission Expires 2/28/2028

This space for Regulatory Authority use.

This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: 0C15806.5 Rev1

FID#: 614

Notes:

1. All Fittings shall be registered in the name of the Manufacturer.
2. Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.

4. Quality Control programs shall be resubmitted for validation.
Scope: CRN renewal, 80X659X Series Compressed Gas Regulators.
Registration does not cover product additions, material or design changes. Flowmeters and pressure gauges are excluded from the scope of this registration. Code of construction: ASME B31.3 (DGallant)

ACCEPTED

PROVINCE OF PRINCE EDWARD ISLAND
COMMUNITIES, LAND & ENVIRONMENT

C.R.N. 0C15806.59 Rev1

DATE: APR 29/24

[Signature]

INSPECTION SERVICES SECTION
BOILER/PRESSURE VESSEL BRANCH

Section 1.0 - Fittings Rev.2


UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick
Nunavut

Nova Scotia
Yukon

Prince Edward Island
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Controls Corporation of America	
Manufacturers Address: 1501 Harpers Road, Virginia Beach, VA 23454 U.S.A.	
Plant Locations: See above	
Category of Fittings to be registered. Circle one Category only A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC requirements)	Title of the Standard of Construction 4x burst pressure
Show Manufacturers Name, Trademark, or Logo as it will appear: 	Type of Construction Forged <input type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/> Cast <input type="checkbox"/> Other <input type="checkbox"/> Describe other: See attached
List of supporting documentation and identification of the actual items to be registered: Catalog Pages, Design Drawings, and Test Reports	

Declaration:

I, John Friedrichs (see note 3) employed by Controls Corporation of America and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by Parry Johnson Registrars as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: [Signature]

Declared before me at CONCOA - VA BEACH, VA

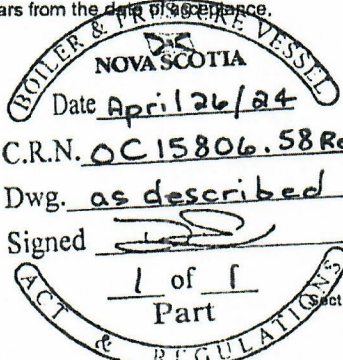
This 8th day of January AD 2024

Commissioner of Oaths

Or Notary Public: (sign) Miriam Duran

(Affix Official seal to the right)

Use this space for the Official Seal
 Miriam Duran
 NOTARY PUBLIC
 Commonwealth of Virginia
 Reg. # 8026938
 My Commission Expires 2/28/2026

This space for Regulatory Authority use. This registration must be revalidated after ten (10) years from the date of acceptance. CRN: <u>0C15806.5 Rev1</u> FID#: <u>614</u> Notes: 1. All Fittings shall be registered in the name of the Manufacturer. 2. Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The Declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality Control programs shall be resubmitted for validation. Scope: CRN renewal. 80X659X Series Compressed Gas Regulators. Registration does not cover product additions, material or design changes. Flowmeters and pressure gauges are excluded from the scope of this registration. Code of construction: ASME B31.3 (DGallant)	
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Section 1.0 - Fittings Rev.2


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Manufacturers Address: 1501 Harpers Road, Virginia Beach, VA 23454 U.S.A.	
Plant Locations: See above	
<p>Category of Fittings to be registered. Circle one Category only</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers</p> <p>B Flanges: all flanges</p> <p>C Valves: all line valves</p> <p>D Expansion joints, flexible connections, and hose assemblies: all types</p> <p>E Strainers, filters, separators, and steam traps</p> <p>F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters</p> <p>G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs</p> <p>H Pressure retaining components that do not fall into one of the above categories</p> <p>N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> , (Meeting CNSC requirements)</p>	<p>Title of the Standard of Construction</p> <p>4x burst pressure</p>
<p>Show Manufacturers Name, Trademark, or Logo as it will appear</p> <div style="text-align: center;">  </div>	
<p>Type of Construction</p> <p>Forged <input type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/></p> <p>Cast <input type="checkbox"/> Other <input type="checkbox"/></p> <p>Describe other:</p> <p style="font-size: 1.2em;">See attached</p>	
<p>List of supporting documentation and identification of the actual items to be registered:</p> <p>Catalog Pages, Design Drawings, and Test Reports</p>	

Declaration:

I, John Friedrichs (see note 3) employed by Controls Corporation of America and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by Perry Johnson Registrars as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: [Signature]

Declared before me at CONCOA - VA BEACH, VA

This 8th day of January AD 2024

Commissioner of Oaths

Or Notary Public: (sign) Miriam Duran

(Affix Official seal to the right)

Use this space for the Official Seal

Miriam Duran
NOTARY PUBLIC
Commonwealth of New Brunswick
Reg. # 802688

My Commission Expires 2/28/2026

DEPT OF JUSTICE PUBLIC SAFETY
BOILER & PRESSURE VESSEL ACT

REGISTRATION ONLY

CRN OC15806.57 Rev1

[Signature]
CHIEF BOILER INSPECTOR

DATE 4/26/24

Sect 1.0 - Fittings Rev.2

☐ BLRs

☐ PVs

☒ FITTINGS

☐ NUCLEAR COMPONENTS

CRN: OC15806.5 Rev1

FID#: 614

Notes:

1. All Fittings shall be registered in the name of the Manufacturer.
2. Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.
4. Quality Control programs shall be resubmitted for validation.
Scope: CRN renewal. 80X659X Series Compressed Gas Regulators.
Registration does not cover product additions, material or design changes. Flowmeters and pressure gauges are excluded from the scope of this registration. Code of construction: ASME B31.3. (DGallant)


UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick
Nunavut

Nova Scotia
Yukon

Prince Edward Island
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Controls Corporation of America	
Manufacturers Address: 1501 Harpers Road, Virginia Beach, VA 23454 U.S.A.	
Plant Locations: See above	
Category of Fittings to be registered. Circle one Category only A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC requirements)	Title of the Standard of Construction 4x burst pressure
Show Manufacturers Name, Trademark, or Logo as it will appear 	Type of Construction Forged <input type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/> Cast <input type="checkbox"/> Other <input type="checkbox"/> Describe other: See attached
List of supporting documentation and identification of the actual items to be registered: Catalog Pages, Design Drawings, and Test Reports	

Declaration:

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Signature of Declarer: [Signature]

Declared before me at CONCOA - VA BEACH, VA

This 8th day of January AD 2024

Commissioner of Oaths

Or Notary Public: (sign) Miriam Duran

(Affix Official seal to the right)

Use this space for the Official Seal

Miriam Duran
NOTARY PUBLIC
Commonwealth of Virginia
Reg. # 8026938

My Commission Expires 2/28/2026

CRN: <u>0C15806.5 Rev1</u> FID#: <u>614</u> Notes: 1. All Fittings shall be registered in the name of the Manufacturer. 2. Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The Declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality Control programs shall be resubmitted for validation. Scope: CRN renewal, 80X659X Series Compressed Gas Regulators. Registration does not cover product additions, material or design changes. Flowmeters and pressure gauges are excluded from the scope of this registration. Code of construction ASME B31.3 (DGallant)	This space for Regulatory Authority use. This registration must be revalidated after ten (10) years from the date of acceptance. Newfoundland Labrador Registered <u>0C15806.50 Rev1</u> Date <u>April 26, 2024</u> Engineering and Inspection Services Registered by <u>[Signature]</u> UNDER THE AUTHORITY OF THE PUBLIC SAFETY ACT AND THE BOILER, PRESSURE VESSEL AND COMPRESSED GAS REGULATIONS Sect 1.0 - Fittings Rev.2
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UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick
Nunavut

Nova Scotia
Yukon

Prince Edward Island
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Controls Corporation of America	
Manufacturers Address: 1501 Harpers Road, Virginia Beach, VA 23454 U.S.A.	
Plant Locations: See above	
Category of Fittings to be registered. Circle one Category only A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC requirements)	Title of the Standard of Construction 4x burst pressure
Show Manufacturers Name, Trademark, or Logo as it will appear <div style="text-align: center;">  </div>	Type of Construction Forged <input type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/> Cast <input type="checkbox"/> Other <input type="checkbox"/> Describe other: <div style="font-size: 1.2em; font-weight: bold;">See attached</div>
List of supporting documentation and identification of the actual items to be registered: Catalog Pages, Design Drawings, and Test Reports	

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Signature of Declarer: [Signature]

Declared before me at CONCOA - VA BEACH, VA


This 8th day of January AD 2024

Commissioner of Oaths

Or Notary Public: (sign) Miriam Duran

(Affix Official seal to the right)

Use this space for the Official Seal
 Miriam Duran
 NOTARY PUBLIC
 Commonwealth of Virginia
 Reg. # 8026938
 My Commission Expires 2/28/2025

This space for Regulatory Authority use. This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>0C15806.5 Rev1</u> FID#: <u>614</u> Notes: 1. All Fittings shall be registered in the name of the Manufacturer. 2. Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The Declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality Control programs shall be resubmitted for validation. Scope: CRN renewal. 80X659X Series Compressed Gas Regulators. Registration does not cover product additions, material or design changes. Flowmeters and pressure gauges are excluded from the scope of this registration. Code of construction: ASME B31.3 (DGallant)	

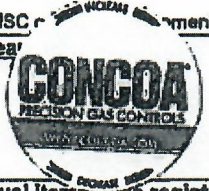
UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick
Nunavut

Nova Scotia
Yukon

Prince Edward Island
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Controls Corporation of America	
Manufacturers Address: 1501 Harpers Road, Virginia Beach, VA 23454 U.S.A.	
Plant Locations: See above	
<p>Category of Fittings to be registered. Circle one Category only</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC requirements)</p>	<p>Title of the Standard of Construction</p> <p>4x burst pressure</p>
<p>Show Manufacturers Name, Trademark, or Logo as it will appear</p> 	<p>Type of Construction</p> <p>Forged <input type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/> Cast <input type="checkbox"/> Other <input type="checkbox"/> Describe other: See attached</p>
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Signature of Declarer: [Signature]

Declared before me at CONCOA - VA BEACH, VA

This 8th day of January AD 2024

Commissioner of Oaths [Signature]

Or Notary Public: (sign) Miriam Duran

(Affix Official seal to the right)

Use this space for the Official Seal

Miriam Duran
NOTARY PUBLIC
Commonwealth of Virginia
Reg. # 8026938

My Commission Expires 2/28/2028

<p>CRN: <u>0C15806.5 Rev1</u></p> <p>FID#: <u>614</u></p> <p>Notes:</p> <ol style="list-style-type: none"> All Fittings shall be registered in the name of the Manufacturer. Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. The Declaration shall be made by the person having full authority and responsibility for the quality of the end product. Quality Control programs shall be resubmitted for validation. <p>Scope: CRN renewal. 80X850X Series Compressed Gas Regulators. Registration does not cover product additions, material or design changes. Flowmeters and pressure gauges are excluded from the scope of this registration. Code of construction: ASME B31.3 (DGallant)</p>	<p>This space for Regulatory Authority Use.</p> <p>This registration must be revalidated after ten (10) years from the date of acceptance.</p> <p>Northwest Territories</p> <p>REGISTERED UNDER THE AUTHORITY OF THE BOILER AND PRESSURE VESSEL ACT.</p> <p>C.R.N. <u>0C15806.5T Rev1</u> SIGNED <u>[Signature]</u> DATE <u>April 30/24</u></p>
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Seal 1.0 - Fittings Rev.2

65.00


UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick
Nunavut

Nova Scotia
Yukon

Prince Edward Island
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Controls Corporation of America	
Manufacturers Address: 1501 Harpers Road, Virginia Beach, VA 23454 U.S.A.	
Plant Locations: See above	
<p>Category of Fittings to be registered. Circle one Category only</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers</p> <p>B Flanges: all flanges</p> <p>C Valves: all line valves</p> <p>D Expansion joints, flexible connections, and hose assemblies: all types</p> <p>E Strainers, filters, separators, and steam traps</p> <p>F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters</p> <p>G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs</p> <p>H Pressure retaining components that do not fall into one of the above categories</p> <p>N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC requirements)</p>	<p>Title of the Standard of Construction</p> <p>4x burst pressure</p>
<p>Show Manufacturers Name, Trademark, or Logo as it will appear</p> 	<p>Type of Construction</p> <p>Forged <input type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/></p> <p>Cast <input type="checkbox"/> Other <input type="checkbox"/></p> <p>Describe other:</p> <p>See attached</p>
<p>List of supporting documentation and identification of the actual items to be registered:</p> <p>Catalog Pages, Design Drawings, and Test Reports</p>	

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Signature of Declarer: [Signature]

Declared before me at CONCOA - VA BEACH, VA

This 8th day of January AD 2024

Commissioner of Oaths [Signature]

Or Notary Public: (sign) [Signature]

(Affix Official seal to the right)

Use this space for the Official Seal

Miriam Duran
NOTARY PUBLIC
Commonwealth of Virginia
Reg. # 8026938
My Commission Expires 2/28/2025

CRN: 0C15806.5 Rev1

FID#: 614

Notes:

- All Fittings shall be registered in the name of the Manufacturer.
- Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
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- Quality Control programs shall be resubmitted for validation. Scope: CRN renewal. 80X659X Series Compressed Gas Regulators Registration does not cover product additions, material or design changes. Flowmeters and pressure gauges are excluded from the scope of this registration. Code of construction: ASME B31.3 (DGALan).

This space for Regulatory Authority Use. This registration must be revalidated after ten (10) years from the date of acceptance.

Nunavut Boilers and Pressure Vessels Act

REGISTERED

0C15806.5N Rev 1

2024-04-25

Signature

Sect 1.0 - Fittings Rev.2

Tenion 1 Registration Fee

Montréal, 28 mai 2024.

CECYLIA GARBACZ
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON
CANADA M9W 6N9

Fabricant : CONTROLS CORPORATION OF AMERICA
1501 HARPERS ROAD
VA BEACH VA
U.S.A. 23454

Numéro de dossier : 944056

Numéro(s) de dessin(s) : CONCOA 80X659X Series Compressed Gas Regulators

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 : **0C15806.56**.

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 d'enregistrement. Les documents 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.

Salutations distinguées,

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

Montréal

255, boul. Crémazie Est, 2ième étage

Montréal (Québec) H2M 1L5

Téléphone : 514 873-2546

Sans frais : 1 866 262-2084

enregistrementdesplans@rbq.gouv.qc.ca

www.rbq.gouv.qc.ca

Montréal, le 28 mai 2024.

CECYLIA GARBACZ
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON
CANADA M9W 6N9

Manufacturer : CONTROLS CORPORATION OF AMERICA
1501 HARPERS ROAD
VA BEACH VA
U.S.A. 23454

OUR REFERENCE : 944056
Design number : CONCOA 80X659X Series Compressed Gas Regulators

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): **0C15806.56.**

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 boiler or pressure vessel 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

Montréal

255, boul. Crémazie Est, 2ième étage
Montréal (Québec) H2M 1L5
Téléphone : 514 873-2546
Sans frais : 1 866 262-2084
enregistrementdesplans@rbq.gouv.qc.ca
www.rbq.gouv.qc.ca



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

Show facsimile of mark or trademark, as it will appear on the product or service below



STATUTORY DECLARATION Registration of Fittings

I, John Friedrichs

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

of Controls Corporation of America

(Name of Manufacturer)

Located at 1501 Harpers Road, Virginia Beach, VA 23454 U.S.A.

(Plant Address)

757-422-8330

(Telephone No.)

757-422-3125

(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 4x burst pressure 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 which has been verified by the following authority, Perry Johnson Registrars.

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

(drawings, calculations, test reports, etc.)

Declared before me at CONCOA in the CITY of VA BEACH

the 8th day of January AD 2024.

Commissioner for Oaths:

MIRIAM DURAN

(Printed name)

Miriam Duran

(Signature)

Miriam Duran
NOTARY PUBLIC
Commonwealth of Virginia
Reg. # 8026938
My Commission Expires 2/28/2026

[Signature]
(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 _____.

CRN: _____

Registered by: _____

Dated: _____

NOTE: This registration expires on: _____



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

CONCOA CRN Testing Summary Sheet

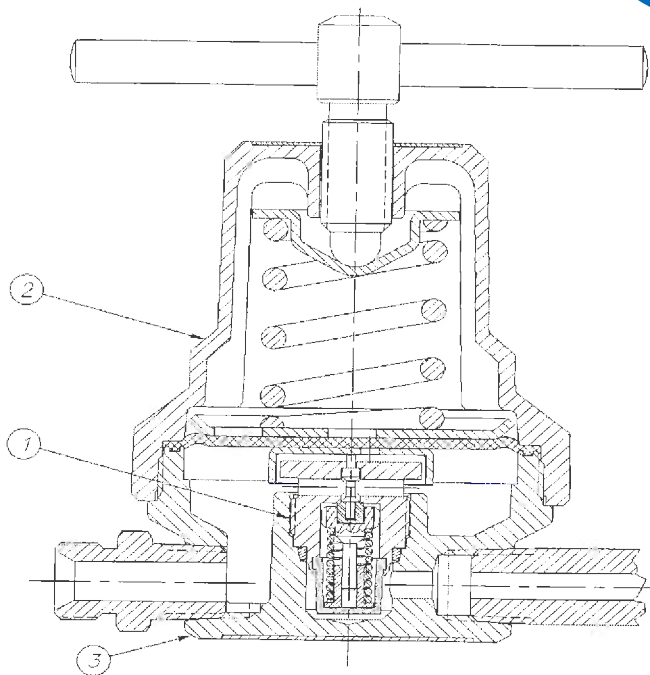
Package 1 - Type C
80X659X

Scope: 80X659X Series Compressed Gas Regulators (flowmeters on some models shall require a separate valid CRN) Note: Total internal volume is well under 1.5 cu. ft.

Item	CRN / Test Data / Exclusions
1	Capsule
2	Bonnet
3	Body
Tested as assembly - see attached burst test data	



Sketch:



Note:

Test results reflect testing of the highest rated inlet and outlet pressures of the entire series - testing the components with the thinnest wall thickness and weakest materials (worst case items in the design). All models in scope have same body and bonnet geometry, same materials of construction, same or lower pressure ratings, and the same temperature ratings as the tested item.