



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

May 10, 2019

SERGE BOCHNOVICH
CLARK COOPER DIV., MAGNATROL VALVE CORP.
941 HAMILTON AVE
ROEBLING NJ 08554
US

Service Request Type: BPV-Fitting Registration
Service Request No.: 2565270
Your Reference No.: EH70 SOLENOID VALVE RPRODUCT LINE
Registered to: CLARK COOPER DIV., MAGNATROL VALVE CORP.

Dear SERGE BOCHNOVICH,

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

CRN: **0C13483.5R2**

Main Design No.: 900001-21 Rev E, 900029-21 Rev D, 900039-21 Rev E, 900042-21 Rev E,
900052-21 Rev C

Expiry Date: 10-May-2029

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

Notes:

- 1) This is a renewal of valves per ASME B16.34 for sizes 1/2" through 2"
- 2) Valve body material is ASTM A351 grade CF8M
- 3) See P/T rating on report page 2 of 11.

A stamped copy of the approved registration and invoice for engineering services will be mailed to you shortly. Should you have any questions or require further assistance, however, 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,

Alan Wu P. Eng.
Mechanical Engineer, BPV
Tel. : 416-734-3443
Fax : 416-231-6183
Email : awu@tssa.org



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Toronto, Ontario
CANADA M9W 6N9
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July 31, 2019

SERGE BOCHNOVICH
CLARK COOPER DIV., MAGNATROL VALVE CORP.
941 HAMILTON AVE
ROEBLING NJ 08554
US

Service Request Type.: BPV-National AB
Service Request No.: 2586826
Your Reference No.: EH70 SOLENOID VALVE RPRODUCT LINE
Registered to.: CLARK COOPER DIV., MAGNATROL VALVE CORP.

Dear SERGE BOCHNOVICH,

Please find enclosed the original response from AB, registered under the CRN No.: 0C13483.52.

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



the pressure equipment safety authority

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

June 18, 2019

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

The design submission, tracking number 2019-03707, originally received on May 23, 2019 was surveyed and accepted for registration as follows:

CRN : 0C13483.52 **Accepted on:** June 18, 2019
Reg Type: RENEWAL **Expiry Date:** May 10, 2029
Drawing No. : SEE SCOPE As Noted
Fitting type: VALVES
Design registered in the name of : CLARK COOPER DIV, MAGNATROL VALVE CORP

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

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction is B16.34.

- *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 and 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.*

Valves are registered to B16.34. Rating is limited to 1200 psi@ 100/-20 F for class 500 and 1500 psi@100/-20F for class 625 and materials specified in the scope. Sizes 1/2 thru 2" rating per size specified in the scope.

CRN covers dwgs: 900001-21 Rev.E, 900029-21 Rev.D,900039-21 Rev E,900039-21 Rev E,900042-21 Rev E,900052-21 Rev C

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

Enclosed are stamped prints for your reference.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3330 or fax (780) 437-7787 or e-mail grynchuk@absa.ca.

Sincerely,

GRYNCHUK, MILLA, P. Eng.
DOP Cert. No. D00005217

STATUTORY DECLARATION Registration of Fittings



I, SERGE BOCHNOVICH, ENGINEERING MANAGER (name of applicant), (position title) (must be in a position of authority) of CLARK COOPER DIVISION, MAGNATROL VALVE CORP (name of manufacturer) located at 941 HAMILTON, Roebing NJ 08554 (plant address)

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

[X] comply with the requirements of ASME B16.34 (title of recognized North American Standard) which specifies the dimensions,

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 (title of code of construction or other applicable document) 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, INTERTEK 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

EH70 SOLENOID VALVE Product Line (brief description of fittings)

In support of this application, the following information, calculations and/or test data are attached:

DRAWINGS & CALCULATIONS IN REPORT

DECLARED before me at Roebing (city) in the state of NJ (province or state) this 16 day of APRIL, 2019 (Month) (Year)

(print) Chrissy Wilson (a Commissioner of Oaths or Notary Public)

(sign) [Signature] (a Commissioner of Oaths or Notary Public)

[Signature] (signature of applicant)

For ABSA Office Use Only:

NOTES:

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

Registration Number: 0C13483-52

[Signature] (Signature of the Administrator/SCO)

Date Registered: JUN 18 2019

Expiry Date: 2029-05-10

Grynchuk, Milla

From: Serge Bochnovich <SergeB@magnatrol.com>
Sent: June 18, 2019 7:21 AM
To: Grynchuk, Milla
Cc: Joanna Karpinski (jkarpinski@tssa.org)
Subject: RE: 2019-03707 0C13483.5R2 EH70 Solenoid valve

Hi Milla,

scope

I finally had time to take a look at this.

I've updated page #2 of 11 in our report with the correct material specifications as shown here. Can I email the updated report, or must I mail in hardcopies?

Material Specifications:

Valve Body (casting): ASTM A351, Grade CF8M

Bonnet tube weldment:

- Base plate: 304 Stainless per ASTM A213 (S30400)
- Tube: 304 Stainless per ASTM A240 (S30400)
- Pole piece: 430 Stainless per ASTM A479 (S43000)

ABSA
SAFETY CODES ACT - PROVINCE OF ALBERTA
REGISTRATION OF FITTINGS
 REGISTRATION NO. 0C13483.52
 DWS. NO. or CAT. NO. scope
 TYPE OF FITTINGS valves
JUN 18 2019
 Date _____ INITIALS [Signature]

was changed

Material Specifications:

Valve Body (casting): ASTM A351, Grade CF8M

Bonnet tube weldment:

- Base plate: 304 Stainless per ASTM A240
- Tube: 304 Stainless per ASTM A312 (S30400)
- Pole piece: 430 Stainless per ASTM A479 (S43000)

[Signature]
 see acceptance letter.

to:

Table 1 on page 2 of my report provides the pressure temperature ratings that you are looking for. Each valve size in the left column has a designated pressure class. The 1/2" is the ONLY valve with Class 625. The corresponding maximum allowable inlet pressure is then given for a temperature range of -20 to +100 deg F, as shown. Our customers who ask for a "pressure class" understand that the point of that system to be able to look up derated pressure values for different temperatures in ASME B16.34. We do not post pressures on our webpage beyond the temperature range shown below, as we expect customers to understand that they are to interpolate Table 2-2.2A of ASME B16.34.

Connection & Orifice Size	Pressure Class (ASME B16.34)	Maximum Inlet Pressure (-20 to 100°F) psig
1/2"	625	1500
3/4"	500	1200
1"	500	1200
1.5"	500	1200
2.0"	500	1200

Table 1

0C13483.52



345 Carlingview Drive
Toronto, Ontario
CANADA M9W 6N9
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July 05, 2019

SERGE BOCHNOVICH
CLARK COOPER DIV., MAGNATROL VALVE CORP.
941 HAMILTON AVE
ROEBLING NJ 08554
US

Service Request Type.: BPV-National BC
Service Request No.: 2586838
Your Reference No.: EH70 SOLENOID VALVE RPRODUCT LINE
Registered to.: CLARK COOPER DIV., MAGNATROL VALVE CORP.

Dear SERGE BOCHNOVICH,

Please find enclosed the original response from BC, registered under the CRN No.: 0C13483.51.

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



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July 31, 2019

SERGE BOCHNOVICH
CLARK COOPER DIV., MAGNATROL VALVE CORP.
941 HAMILTON AVE
ROEBLING NJ 08554
US

Service Request Type.: BPV-National ACI Central
Service Request No.: 2586848
Your Reference No.: EH70 SOLENOID VALVE RPRODUCT LINE
Registered to.: CLARK COOPER DIV., MAGNATROL VALVE CORP.

Dear SERGE BOCHNOVICH,

Please find enclosed the original response from PEI,NS,NB,NFLD,YK,NWT,NU, registered under the CRN No.:
0C13483.59870YTNR2.

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

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND AND LABRADOR
 NUNAVUT YUKON NORTHWEST TERRITORIES

MANUFACTURERS NAME: CLARK COOPER DIVISION, MAGNATROL VALVE CORP
 MANUFACTURERS ADDRESS: 991 HAMILTON AVE ROELLING NJ 08554

PLANT LOCATIONS:

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 fuel gas plugs
 H Pressure retaining components that do not fall into one of the above categories
 N Nuclear components: Class 1 Class 2 Class 3 (Meeting AEGB or ASME requirements)

TITLE OF THE STANDARD OF CONSTRUCTION

ASME B16.34

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT



TYPE OF CONSTRUCTION
 FORGED WELDED WROUGHT
 CAST OTHER
 DESCRIBE OTHER:

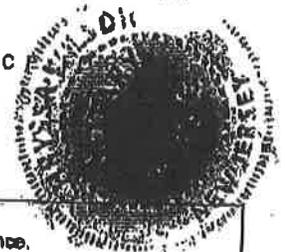
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

Component drawings & CALCULATIONS

DECLARATION:
 I, SERGE BOCHNOVICH (see note 3) employed by CLARK COOPER 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 and 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 INTERTEK 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: Ss. Balu
 Declared before me at CLARK COOPER
 This 16 day of APRIL AD 2019
 Commissioner of Oaths or Notary Public: (sign) [Signature]
 (Affix Official seal to the right)

USE THIS SPACE FOR OFFICIAL



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

CRN: OC13483.5 REV2
 FID#: 14967
CRN EXPIRES MAY 10, 2029 D.G.

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 at a maximum interval of five (5) years.

ACCEPTED
 PROVINCE OF PRINCE EDWARD ISLAND
 COMMUNITIES, LAND & ENVIRONMENT
 C.R.N. OC13483.59 Rev2
 DATE: 3/19
INSPECTION SERVICES SECTION
BOILER/PRESSURE VESSEL BRANCH

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: <u>CLARK COOPER DIVISION, MAGNATROL VALVE CORP</u>	
MANUFACTURERS ADDRESS: <u>941 HAMILTON AVE ROELLING NJ 08554</u>	
PLANT LOCATIONS:	
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 AECB or ASME requirements)	TITLE OF THE STANDARD OF CONSTRUCTION ASME B16.34
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT 	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:
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED: <u>Component drawings & CALCULATIONS</u>	

DECLARATION:

I, SERGE BOCHNOVICH (name reads as) employed by CLARK COOPER 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 and 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 INTERTEK 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:

S. Bohovich

Declared before me at

CLARK COOPER

This 16 day of

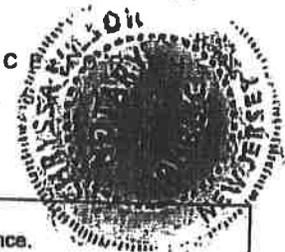
APRIL AD 2019

Commissioner of Oaths
or Notary Public: (sign)

Chris Wick

(Affix Official seal to the right)

USE THIS SPACE
OFFICIAL



This space for Regulatory Authority use

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

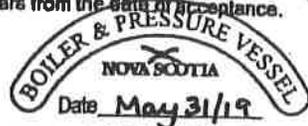
CRN: OC13483.5 REV2

FID#: 14967

CRN EXPIRES MAY 10, 2029 D.G.

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.
- 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 at a maximum interval of five (5) years.



C.R.N. OC13483.5BREV2

Dwg. as described

Signed Yvonne Perry

1 of 1

Part



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: CLARK COOPER DIVISION, MAGNATROL VALVE CORP
 MANUFACTURERS ADDRESS: 941 HAMILTON AVE ROELLING NJ 08554
 PLANT LOCATIONS:

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 Class 2 Class 3 (Meeting AECB or ASME requirements)

TITLE OF THE STANDARD OF CONSTRUCTION

ASME B16.34

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT



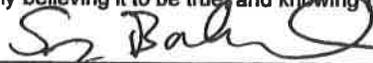
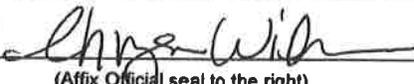
TYPE OF CONSTRUCTION

FORGED WELDED WROUGHT
 CAST OTHER
 DESCRIBE OTHER:

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

Component drawings & CALCULATIONS

DECLARATION:
 I SERGE BOCHNOVICH (see note 3) employed by CLARK COOPER 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 and 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 INTERTEK 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: 
 Declared before me at CLARK COOPER
 This 16 day of APRIL AD 2019
 Commissioner of Oaths or Notary Public: (sign) 
 (Affix Official seal to the right)

USE THIS SPACE FOR OFFICIAL



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CRN: OC13483.5 REV2
 FID#: 14967
CRN EXPIRES MAY 10, 2029 D.G.

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 at a maximum interval of five (5) years.

Brunswick
 DEPT OF JUSTICE PUBLIC SAFETY
 BOILER & PRESSURE VESSEL ACT

REGISTRATION ONLY
 CRN OC13483.57Rev2

 CHIEF BOILER INSPECTOR
 DATE 5/31/2019

BLRs PVs
 FITTINGS NUCLEAR COMPONENTS

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: <u>CLARK COOPER DIVISION, MAGNATROL VALVE CORP</u>	
MANUFACTURERS ADDRESS: <u>941 HAMILTON AVE ROELLING NJ 08554</u>	
PLANT LOCATIONS:	
<p align="center">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 AECB or ASME requirements)</p>	<p align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p align="center">ASME B16.34</p>
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
	
<p align="center">TYPE OF CONSTRUCTION</p> FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:	
<p align="center">LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p align="center"><u>Component drawings & CALCULATIONS</u></p>	

DECLARATION:

I SERGE BOCHNOVICH (see note 3) employed by CLARK COOPER 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 and 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 INTERTEK 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: S. Bohnovich

Declared before me at CLARK COOPER

This 16 day of APRIL AD 2019

Commissioner of Oaths
or Notary Public: (sign) Chrys Wilk

(Affix Official seal to the right)

USE THIS SPACE FOR
OFFICIAL



This space for Regulatory Authority use

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

CRN: 0C13483.5 REV2

FID#: 14967

CRN EXPIRES MAY 10, 2029 D.6.

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.
- 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 at a maximum interval of five (5) years.

Newfoundland
 Labrador
 Service NL
 Registered 0C13483.50 Rev.2
 Date 19/05/21
 Engineering and Inspection Services
 Registered by [Signature]
 UNDER THE AUTHORITY OF THE
 PUBLIC SAFETY ACT AND
 THE BOILER, PRESSURE VESSEL AND
 COMPRESSED GAS REGULATIONS

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

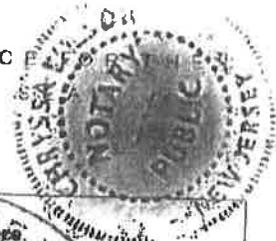
NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: <u>CLARK COOPER DIVISION, MAGNATROL VALVE CORP</u>	
MANUFACTURERS ADDRESS: <u>941 HAMILTON AVE ROELLING NJ 08554</u>	
PLANT LOCATIONS:	
<p align="center">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 AECB or ASME requirements)</p>	<p align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p align="center">ASME B16.34</p>
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
	<p align="center">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:</p>
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:	
<p><i>Component drawings & CALCULATIONS</i></p>	

DECLARATION:
 I SERGE BOCHNOVICH (see note 3) employed by CLARK COOPER 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 and 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 INTERTEK 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: *S. Bohovich*
 Declared before me at CLARK COOPER
 This 16 day of APRIL AD 2019
 Commissioner of Oaths or Notary Public: (sign) *Shirley Wilk*
 (Affix Official seal to the right)

USE THIS SPACE FOR OFFICIAL SIGNATURE



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

CRN: OC13483.5 REV2
 FID#: 14967
CRN EXPIRES MAY 10, 2029 D.G

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 at a maximum interval of five (5) years.



GOVERNMENT OF YUKON
 BY *[Signature]*
 CRNOC13483.5REV2
 DATE 05/31/2019
 BOILERS BRANCH

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

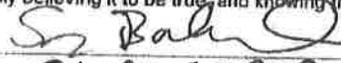
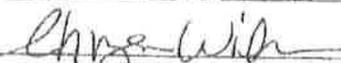
NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: CLARK COOPER DIVISION, MAGNATROL VALVE CORP
 MANUFACTURERS ADDRESS: 941 HAMILTON AVE ROELLING NJ 08554
 PLANT LOCATIONS:

<p align="center">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 AECB or ASME requirements)</p>		<p align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p align="center">ASME B16.34</p>
<p align="center">SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> <p align="center"></p>	<p align="center">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:</p>	

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:
Component drawings & calculations

DECLARATION:
 I, SERGE BOCHNOVICH (read note 3) employed by CLARK COOPER 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 and 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 INTERTEK 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: 
 Declared before me at CLARK COOPER
 This 16 day of APRIL AD 2019
 Commissioner of Oaths or Notary Public: (sign) 
 (Affix Official seal to the right)



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

CRN: OC13483.5 REV2
 FID#: 14967
CRN EXPIRES MAY 10, 2029 D.G.

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 at a maximum interval of five (5) years.

REGISTERED
 CRN OC 13483.5 N Rev2
 Date May 31, 2019
 Signed 
 Chief Inspector

Territorial Registration Fee



To:	TSSA	From:	Janet Townsend
Company:	Clark Cooper, Magnatrol Inc.	Phone:	416-747-4291
Pages:	8	Location:	Toronto
Our File:	ANR-5394	Date:	June 21, 2019

Your File: 2586842

Subject: Request for Design Registration

CSA has reviewed the documentation submitted by TSSA on behalf of Clark Cooper, Magnatrol Inc.

These fittings have been registered by CSA for the Province of Québec. In accordance with an agreement between CSA, the Provinces of Québec and Saskatchewan; this registration is recognized by Quebec and Saskatchewan. These fittings are acceptable for use in these Provinces.

The letters CSA will be applied as a prefix to the CRN indicate which fittings have been registered in this manner. A copy of the stamped Statutory Declaration is attached.

The CRN is CSA-0C13483.56R2

A copy of the Statutory Declaration with an original stamp affixed will be forwarded to you along with our invoice by regular mail.

Yours truly

A handwritten signature in blue ink that reads 'Janet Townsend'.

Janet Townsend
Program Manager
CSA Group
178 Rexdale Blvd.
Toronto, ON, M9W 1R3
Canada
www.csagroup.org



Statutory Declaration Registration of Fittings

Building Act (B-1.1)
Regulation respecting pressure vessels (B-1.1, r. 6.1)
Boiler, pressure vessel, and pressure piping code (CSA B51)

This declaration must be filled out and sent to the Régie du bâtiment du Québec (RBQ) by pressure fitting manufacturers when they make an application registration for fittings.

For more information on the application registration for fittings, consult the www.rbg.gouv.qc.ca/fittings-pv.

1. Fittings to register

List the fittings included in this declaration and that you wish to register.

N°	Description	Additional information (detail, calculations or approval sheets)
1	EH70 solenoid valve product line	See design package submitted
2		REGISTERED 
3		CRN: CSA-OC13483-56R2
4		
5		Registration Process administered by CSA Group per CSA B51

2. Declaration of the person in charge

The person in charge is someone in a position of authority, such as a vice-president, a plant manager or a chief engineer.

2.1 Design

I, the undersigned, Serge Bochnovich Engineering Manager
(Name of the person in charge) (Title of the person in charge)

from Clark Cooper, Magnatrol Inc, located at 941 Hamilton Avenue, Roebing NJ 08554
(Company's name) (Plant's address)

hereby declare that the above-mentioned fittings and subject to the Regulation respecting pressure installations:

comply with the requirements of the ANSI/ASME codes as to their dimensions, identification, material and purpose
or
 are not covered by the ANSI/ASME codes, but are in compliance with _____
(Name of code or standard)

code or standard and are designed according to the best current engineering practice, as proven by the enclosed approval report.

2.2 Manufacturing quality control

I further declare that the manufacture of these fittings is controlled by a quality control program that complies with the requirements of the following code ISO 9001:2015, and has been verified by Intertek Testing Services, Inc
(Name of code) (Authorized agency)

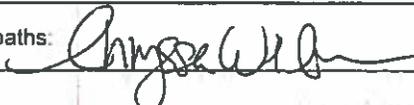
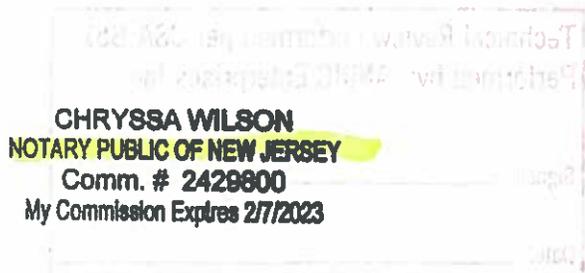
Signature of the person in charge: S. Bochnovich Date (yyyy-mm-dd): 2019/05/30

***Note:**

- See attachment as the scope of registration.
- Renewal registration without design change.
- This registration covers only the valves in full compliance with B16.34 & technical review performed in the previous registration.



3. Declaration of commissioner for oaths

I certify that this declaration has been administered before me, at <u>ROEBLING, NJ</u> , on <u>2019, 06, 06</u> .	
(Location)	(Date (yyyy-mm-dd)):
Signature of commissioner for oaths: 	Date (yyyy-mm-dd): <u>2019-06-06</u>
Stamp the seal: 	

4. Registration confirmation (for RBQ's use only)

As far as I know, this application complies with the requirements of the Act and with standard CSA B51, Part 1, section 4.2, and is accepted for registration in the class <u>C</u> .	
This registration expires in ten <u>10</u> years after the date of registration indicated above, and it must be validated again after this period. <u>May - 10 - 2029</u>	
Canadian registration number (CRN): <u>CSA-OC13483.56 R2</u>	Registration date (yyyy-mm-dd): <u>Jun - 20 - 2019</u>
<div style="border: 2px solid red; padding: 5px;"><p style="text-align: center;">REGISTERED </p><p style="text-align: center;">CRN: <u>CSA-OC13483.56 R2</u> <u>R. W. Barnes</u></p><p style="text-align: center;">Registration Process administered by CSA Group per CSA B51</p></div>	

Documents to attach

Any application registration for fittings must include these documents:

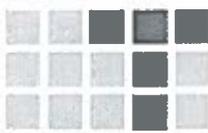
- Statutory Declaration Registration of Fittings (2 copies)
- Detailed calculations or burst test report (1 copy)
- Detailed technical drawings or catalogues (2 copies)
- Example of the manufacturer's marking (1 copy)
- Proof that a valid and approved quality control program has been implemented (1 copy)
- Form Application for design registration (1 copy)

Sending the form

This declaration is mandatory in order to submit an application registration of fittings.

Application registration for fittings must only be sent by mail to this address:

Bureau d'expertise et d'homologation en équipements sous pression
Régie du bâtiment du Québec
545, boulevard Crémazie Est, 7^e étage
Montréal (Québec) H2M 2V2



Technical Safety Authority of Saskatchewan

REGISTERED



CRN: CSA-OC13483.56R2

2202 2nd Ave.
Regina, SK S4R 1K3
PH: (306)798-7112 Toll Free: (866)530-8599
FAX: (306)787-9273 Toll Free: (866)760-9255
Email: boilerpermits@lsask.ca
Website: www.lsask.ca

Registration Process administered by
CSA Group per CSA B51

Statutory Declaration (Registration of Fittings)

TSK-1008

I. Declaration Information

I, Serge Bochnovich
Engineering Manager
(company title, e.g. vice president, plant manager, chief engineer)
(must be in a position of authority in the manufacturing plant where the fitting is produced)

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.



of: Clark Cooper Division, Magnatrol Valve Corporation
(name of manufacturer)

located at: 941 Hamilton Avenue Roebling, NJ 08554
(Plant Address - Apt/Street) (City, Prov) (Postal Code)

do solemnly declare that the fittings listed hereinunder, which are subject to the **Saskatchewan Boiler and Pressure Vessel Safety Act** (check one)

- Comply with the requirements of ASME B16.34 which specifies the dimensions, Materials of construction, pressure / temperature ratings and identification marking of the fittings, or
(title of recognized North American Standard)
- Are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ 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.

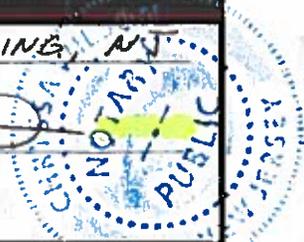
I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority, Intertek Testing Services, Inc as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are EH70 solenoid valve product line

In support of this application, the following information, calculations and / or test data are attached:

A design package with calculations and drawings was submitted.

II. Declaration

DECLARED before me at CLARK COOPER In the TOWN of ROEBLING, NJ
this 6 day of JUNE, 2019
Chryssa Wilson [Signature]
(print name) (Signature)
[Signature]
(Signature of Commissioner of Oaths)

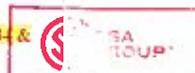


III. Office Use Only

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

CSA-OC13483.56R2 Jun-20-2019 May-10-2029
(Registration Number) (Date Registered - MM DD YYYY) (Expiry Date - MM DD YYYY)
(For the Administrator / Chief Inspector) R.W. Barnes

- *Note:
- See attachment as the scope of registration.
 - Renewal registration without design change.
 - This registration covers only the valves in full compliance with B16.34 & technical review performed in the previous registration.





345 Carlingview Drive
Toronto Ontario M9W 5N9
Tel. 416 734 3300
Fax 416 231 1526
Toll Free 1 877 682 8772

www.tssa.org

May 10, 2019

SERGE BOCHNOVICH
CLARK COOPER DIV., MAGNATROL VALVE CORP.
941 HAMILTON AVE
ROEBLING NJ 08554
US

Service Request Type: BPV-Fitting Registration
Service Request No.: 2565270
Your Reference No.: EH70 SOLENOID VALVE RPRODUCT LINE
Registered to: CLARK COOPER DIV., MAGNATROL VALVE CORP.

Dear SERGE BOCHNOVICH,

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

CRN: 0C13483.5R2

Main Design No.: 900001-21 Rev E, 900029-21 Rev D, 900039-21 Rev E, 900042-21 Rev E,
900052-21 Rev C

Expiry Date: 10-May-2029

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

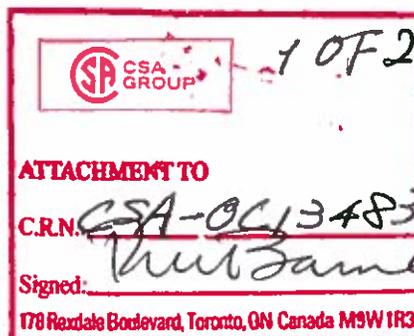
Notes:

- 1) This is a renewal of valves per ASME B16.34 for sizes 1/2" through 2"
- 2) Valve body material is ASTM A351 grade CF8M
- 3) See P/T rating on report page 2 of 11.

A stamped copy of the approved registration and invoice for engineering services will be mailed to you shortly. Should you have any questions or require further assistance, however, 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,

Alan Wu P. Eng.
Mechanical Engineer, BPV
Tel. : 416-734-3443
Fax : 416-231-6183
Email : awu@tssa.org



Design Code or Standard

Clark Cooper has designed the referenced solenoid valves (fittings) in accordance with ASME B16.34-2013 (Valves-Flanged, Threaded, And Welding End). Where applicable in ASME B16.34, we have referenced the 2004 ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. See the *Detailed Calculations* section for calculations pertinent to the valve body, bonnet bolts, bonnet flange, and bonnet tube.

Material Specifications:

Valve Body (casting): ASTM A351, Grade CF8M

Bonnet tube weldment:

- Base plate: 304 Stainless per ASTM A213 (S30400)
- Tube: 304 Stainless per ASTM A240 (S30400)
- Pole piece: 430 Stainless per ASTM A479 (S43000)

Maximum Allowable Working Pressure and Temperature:

The table below shows the maximum inlet pressure for corresponding sizes of the EH70 solenoid valve product, assuming an NPT connection and listed temperature range. Lower pressures apply if ASME B16.5 Class 150 or 300 flanges are welded to the inlet and outlet connection. In such a case, the flange rating is the limiting pressure. Pressures are derated per Table 2-2.2A in ASME B16.34 for temperatures higher than 100°F.

Connection & Orifice Size	Pressure Class (ASME B16.34)	Maximum Inlet Pressure (-20 to 100°F) psig
½"	625	1500
¾"	500	1200
1"	500	1200
1.5"	500	1200
2.0"	500	1200

Table 1
20F2



ATTACHMENT TO
C.R.N. CSA-0013483-16R2
Signed: [Signature]
178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

THIS IS PART OF
CRN 0013483.5R2
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

APPLICABLE TO VALVE BODY MAT'L
AND P/T RATING

CERTIFICATE OF REGISTRATION

This is to certify that the management system of:

Clark-Cooper Division
Magnatrol Valve Corporation

Main Site: 941 Hamilton Avenue, Roebling, New Jersey, 08554, United States

has been registered by Intertek as conforming to the requirements of:

ISO 9001:2015

The management system is applicable to:

Design, manufacture and sale of standard and custom solenoid valves and actuators, electrical and electronic control devices.

Certificate Number:
QMS-0505b

Initial Certification Date:
29 January 2010

Date of Certification Decision:
30 November 2018

Issuing Date:
30 November 2018

Valid Until:
28 January 2022



A handwritten signature in black ink, appearing to read "Calin Moldovean".

Calin Moldovean
President, Business Assurance

Intertek Testing Services NA, Inc.,
900 Chelmsford Street,
Lowell, MA 01851.
USA.





March 2019

CRN – Canadian Registration Numbers – Saskatchewan

The Province of Saskatchewan participates with Quebec and the Canadian Standards Association (CSA Group) for the registrations of “Fittings”.

Per an agreement with CSA Group in April 1998, Saskatchewan recognizes registrations done by CSA Group and accepts such fittings for use in Saskatchewan.

The letters “CSA” are applied as a prefix to the CRN to indicate which “Fittings” have been registered in this manner. You should inform your clients of this additional marking requirement and that “Fittings” registered by CSA Group are accepted for use in province of Saskatchewan, Canada.

178 Rexdale Blvd.
Toronto, Ontario
Canada M9W 1R3
Tel: (416) 747-4000
www.csagroup.org

