

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 RPODUCT 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: <u>awu@tssa.org</u>



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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 RPODUCT 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

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, SEA	RGE BOCHNOVICH	ENGINEERING	MANAGER	The same of the sa
	(name of applicant)	(position title) (must be in	a position of authority)	(
of CLA	AVE COOPER PIVISION	MAGNATROL	VALVE CORP	
	(nam	e of manufacturer)	- ARCCU	
located a	t 941 HAMILTON	ROEBling IV	, 00339	
do solem (check o	nly declare that the fittings liste ne)	d hereunder, which are	subject to the Safety C	odes Act
<u>⊠</u> co	emply with the requirements of	(title of recognized North Ame		ecifies the dimensions,
m	aterials of construction, pressu	re/temperature ratings	and identification marki	ng of the fittings, or
☐ ar	e not covered by the provisions	of a recognized North	American standard and	are therefore manufactured
to	comply with		as	supported by the attached
	(title of code of	f construction or other applica	ble document)	
da	ata which identifies the dimension	ons, materials of constru	uction, pressure/temper	rature ratings and the basis
fo	r such ratings, and the marking	of the fittings for identif	ication.	
I further of	declare that the manufacture of	these fittings is controlle	ed by a quality control p	program which has been
verified b	y the following authority, \mathcal{I}	NTERTEK	as being suitable	for the manufacture of these
fittinas to	the stated standard. The fitting	as covered by this decla	ration, for which I seek	registration, are
_				
	HTO SOLENOIP	/HLVE //oduc prief description of fittings)	T LINE	
In suppoi	t of this application, the followir	ng information, calculation	ons and/or test data are	e attached:
	Prawings & CALC	WATERIC I	1. COPART	
	TAWING + CHEC	02717003 /	, o report	=
	ED before me at Roebling	in the Sta	te of	NJ rovince or state)
this	day of Al	ORIL, 20	19	Townied of state)
1	1) (M	onth) (Year)	
(print)_((a Commissioner of Oaths or Notary F	Public)		
(sign)	ta Commissioner of Oaths or Notary F	2. h Ea)	So Bar	San Barray
For ARS	A Office Use Only:	rubiic)	(signature of	арріісапі,
NOTES:	4 Office Ose Offiy.			
	est of my knowledge and belief,	the application mosts th	as requirements of the	Safaty Codes Act and CSA
	B51, Clause 4.2, and is accept			Salety Codes Act and CSA
Registrat	ion Number: 0 C 134	83.52	(Signature of the	e Administrator/SCO)
Date Reg	istered: IIIN 1 8 2	019 E	expiry Date: 20	29-05-10
The informat Pressure Eq	ion you provide is necessary only for the a uipment Discipline.	dministration of the programs as	s required by the Alberta Safety	/ Codes Act and Regulations in the

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.

to:

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 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 (\$30400)

Tube: 304 Stainless per ASTM A240 (S30400)

Pole piece: 430 Stainless per ASTM A479 (\$43000)

Material Specifications:

Valve Body (casting): ASTM A351, Grade CF8M Bonnettube weldment:

Base plate: 304 Stainless per ASTM A240

Tube: 304 Stainless per ASTM A312 (\$30400)

Pole piece: 430 Stainless per ASTM A479 (\$43000)

REGISTRATION OF FITTINGS

email the updated

DWG. NO. or CAT. NO

was changed

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





July 05, 2019

345 Carlingview Drive Toronto, Ontario CANADA M9W 6N9 Tel.: 416.734.3300 Fax.: 416.231.1626

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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 RPODUCT 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





Suite 600 - 2889 E 12th Ave Vancouver, BC V5M 4T5

Toll Free: 1-866-566-7233 www.technicalsafetybc.ca

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

Date: June 17, 2019

Account #: 35231 **Journal #:** 73513

Attn: TANYA FRANCIS

Re: Application for Design Registration

The design, as detailed in your, CRN: 0C13483.5R2, for a Fitting is accepted for registration as follows:

CRN:

Registered To: CLARK COOPER DIV OF

MAGNATROL VALVE CORP

0C13483.51

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

Reviewer's Notes:

As required by CSA B51 4.2.1, this registration expires on 10-May-2029. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void. Any additional conditions of registration stated in TSSA CRN# 0C13483.5R2 registration shall apply to BC registration.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

Janina Mihailescu

janina.mihailescu@technicalsafetybc.ca Design Administration

cc:

(PROD) 30400-20 GST #: 87391 2802 RT0001



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

www.tssa.org

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 RPODUCT 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 PITTING DESIGNS

NEW BRUNSWICK NUNAVUT NOVA SCOTIA YUKON PRINCE EDWARD ISLAND NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: CLARK COOPER DIVISION	1. Le Constantina	- VALVE CORP
MANUFACTURERS ADDRESS: 941 HAMILTON AVE	Roelling	NJ 08554
PLANT LOCATIONS:	- 4	
DATESORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE		TITLE OF THE STANDARD OF CONSTRUCT
A Pipe fittings, including couplings, less, albows, Ye, pluge, unione, pipe cap B Flanges: all flanges	s, or reducers	
C Valves: all fine velves		
D Expansion joints, flexible connections, and hose assemblies: sil types E Strainers, filters, separators, and steam traps		
F Measuring devices, including pressure gauges, level gauges, aight glasses	, levels, or	ASME B16.34
pressure transmitters 3 Control capacity-rated pressure rolled devices acceptable as primary over	nevelte amiadian on	A DESIGNATION OF THE PARTY OF T
boliers, pressure vessels, piping and fuelble pluga	10-00	1
H Pressure retaining components that do not fall into one of the above catego N Nuclear components: Class 1 □ Class 2 □ Class 3 □, (Meeting AECB		1
HOW MANUFACTURERS NAME; TRADEMARK, OR LOGO AS IT WILL A	PPEAR ON THE PRODUCT	I TYPE OF CONSTRUCTION
alku.	A martin and the Principle	FORGED D WELDING D WROTIGHT D
		DESCRIBE OTHER
(42)		F.
	A Frymma a para .	1
IST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE	ACTUAL ITEMS TO BE R	EGISTERED;
COMPONENT drawings & CAL	CULATIONS	
Company 1 City		
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CLARATION:		-
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SEASE BOCHNOVICH (see note 5) employed by CLARK		
SERGE BOCHNOVICH (new note 3) employed by CLARK consibility for the quality of the end product do solemnly declare that knowledge represents the product for which conlete in a sound.	the dimension contains	in this form is true and to the best
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day of APRIL AD 2019 Interpretation of Oaths of APRIL AD 2019 Interpretation of Oaths of APRIL AD 2019 This spece for Regulatory This registration must be revalidated after ten (1) N: 0C13483.5 REV2 #: 14967 RU EXPIRES MAY 10, 2029 D. 6 Sec. Miffittings shall be registered in the name of the Manufacturer.	The information contains the interior matter in the harein named stands the harein named stands which extends to each pass being sullable for the first same force and end of the same force and end of	is of construction, pressure and to the best of sof construction, pressure ands. I further declare that the lant where fabrication occurs in whole at purpose and I make this solemn fact as if made under oath. S P A C P C I A L CEPTED CEPTED CEPTED CEPTED CEPTED CENTRONMENT
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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

06-03-2019

MANUFACTURERS NAME: CLARK COOPER PIVISION	, MASNATKOL	- WALVE CORP
191 HAMILTON AVE	Roelling	N.T Dercu
PLANT LOCATIONS:	4 4 2	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE C. A Pipe fittings, including couplings, teas, albows, Ys, plugs, unions, pipe caps,	ATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTO
B Flanges: all flanges C Valves: all line valves	, 01 10446618	*
D Expansion joints, flexible connections, and hose excemblies; all types		
E Streiners, filters, separatora, and steam truns		
F Measuring devices, including pressure gauges, level gauges, sight glasses, pressure transmitters		ASME B16.34
G Certified capacity-rated pressure relief devices acceptable as primary over p	ressure protection on	3
bollors, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categori	len	*
Nuclear components: Class 1 🖸 Class 2 🗎 Class 3 🗒 (Meeting AECB of	ASME moulements)	1
HOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APP	PEAR ON THE PRODUCT	I TYPE OF CONSTRUCTION
Contract of the Contract of th		FORGED CI WELDED CI WROUGHT D
		DESCRIBE OTHER
ACT OF SUPPORTING SOURCE	G 12	
IST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE A	CTUAL ITEMS TO BE R	EGISTERED:
Component drawings & CALL	CULATIONS	
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500		
CLARATION:		
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NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NORTHWEST TERRITORIES NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND AND LABRADOR NORTHWEST TERRITORIES

MANUFACTURERS NAME: CLARK COOPER PIVISION	, MAGNATROL VALVE CORP
MANUFACTURERS ADDRESS: 941 HAMILTON AVE	
PLANT LOCATIONS:	0 0001
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE C A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps 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	
Measuring devices, including pressure gauges, level gauges, sight glasses, pressure transmitters Certified capacity-rated pressure relief devices acceptable as primary over publicles, pressure vessels, piping and fusible plugs	ressure protection on
H Pressure retaining components that do not fall into one of the above categor N Nuclear components: Class 1 □ Class 2 □ Class 3 □, (Meeting AECB of	
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL AP	PEÀR ON THE PRODUCT TYPE OF CONSTRUCTION
E	FORGED WELDED WROUGHT CAST OTHER DESCRIBE OTHER:
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE A	ACTUAL ITEMS TO BE REGISTERED:
ignature of Declarer: CLARK COOPER Dis	ne information contained in this form is true and to the best of the dimensions, materials of construction, pressure the herein named standards. I further declare that the hich extends to each plant where fabrication occurs in whole as being suitable for that number fabrication occurs in whole
Ommissioner of Oaths Notary Public: (sign) (Affix Official seal to the right) This space for Regulatory This registration must be revalidated after ten (10	
CRN: 0C13483.5 REV2	DI UITSWICK ""
ID#: 14967	DEPT OF JUSTICE PUBLIC SAFETY BOILER & PRESSURE VESSEL ACT
CRU EXPIRES MAY 10, 2029 D.6.	REGISTRATION ONLY
lotes: All fittings shall be registered in the name of the Manufacturer. Each category shall be supported with two Statutory Declaration orms and one copy of supporting documentation. The declaration shall be made by the person having full authority and	CRNCC13483,57Rev2
sponsibility for the quality of the end product. Quality control programs shall be resubmitted for validation a maximum interval of five (5) years.	CHIEF BOILER INSPECTOR DATE 5/31/2019
o w	BLRs PVs
a s	☐ 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: CLARK COOPER DIVISION, MAGNATRO	1 10/11 0 0 0 1
MANUFACTURERS ADDRESS: 941 HAMILTON AVE ROELling	L VALVE CORP
PLANT LOCATIONS:	NJ 08554
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTIO
A Pipe fittings, including couplings, tees, albows, Ys, plugs, unions, pipe caps, or reducers B Flanges; all flanges C Valves: all line valves D Expension joints, flexible connections, and hose assemblies; all types	STATE STANDARD OF CONSTRUCTION
Strainers, filters, separators, and steam traps Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on bollers, pressure vessels, piping and fusible plugs Pressure retaining components that do not fall into one of the above categories	ASME B16.34
N Nuclear components: Class 1 □ Class 2 □ Class 3 □, (Meeting AECB or ASME requirements) SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
SHOT MARKE RETENDED THE PRODUCT	
E	FORGED WELDED WROUGHT CAST OTHER DESCRIBE OTHER:
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TO BE R	EGISTERED:
COMPONENT drawings & CALCULATIONS	
,	
DECLARATION: SERGE ROCHNOVICH CLARK CONFO	
SERGE BOCHNOVICH (1800 note 3) employed by CLARK COPER and be	ing the person having full authority and
SERGE BOCHNOVICH (1800 note 3) employed by CLARK COPER and be sponsibility for the quality of the end product do solemnly declare that the information contains a knowledge represents the product for which projects to be sought. The distribution is a contained to the product for which projects to be sought.	o in this form is true and to the best of
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	NOVA SCO YUKON	ITIA	PRII NOI	NCE EDW	THE REGISTRATION ARD ISLAND TERRITORIES	NEWFO	UNDL	AND AND LABRADOR
MANUFACTURERS NAME: C	LARK	COOPER	PIVI	SION	MAKNATROL	1141	VE	CORP
MANUFACTURERS ADDRESS:	941	HAMIL	7/84	AUR		NJ		
PLANT LOCATIONS:			, 0,0	/1	NOC-1111	700	08	P554
CATEGORY OF FITTH	NGS TO BE	EGISTERED.	CIRCLE	ONE CAT	EGORY ONLY	TITLE	FTDE	STANDARD OF CONSTRUCT
A Pipe fittings, including coupling B Flanges: all flanges C Valves: all fine valves D Expansion joints, flexible conn E Strainers, filters, separators, all F Messuring devices, including p pressure transmitters	actions, and I nd steam trap ressure gaug	nose essembli s es, level gaug	es: all typ es, sight g	oes glasses, lev	vels, or		æ	B16.34
G Certified capacity-rated pressure boilers, pressure vessels, pipin H Pressure rataining components N Nuclear components: Class 1	g and fusible that do not f	plugs all into one of t	he above	categories				
HOW MANUFACTURERS NAME	TRADEMA	RK OR LOGO	AS IT W	VII I ADDE	D ON THE BRODUCT	-	Their territor are	
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IST OF SUPPORTING DOCUME								
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CRU EXPIRES MAY 10, 2029 D.L

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.

at a maximum interval of five (5) years.

DATE 05/31/2019

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	Intue Con
MANUFACTURERS ADDRESS: 941 HAMILTON AVE ROELling	
PLANT LOCATIONS:	NJ 08554
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY A Pipe fittings, including couplings, teas, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all fineges C Valves: all line valves D Expansion joints, flaxible connections, and hose assemblies: all types E Strakers, filters, separators, and steam traps	TIPLE OF THE ETANDARD OF CONSTRUCTION
F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Cartified capacity-rated pressure relief devices acceptable as primary over pressure protection on bollers, pressure vessels, piping and fusible pluge H Pressure retaining components that do not fall into one of the above calegories N Nuclear-components: Class 1 Class 2 Class 3 (Meeting AECB or ASME requirements) Class 3 Cl	ASME B16.34
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	IYPE OF CONSTRUCTION
E	FORGED (I WELDED (I WROUGHT (I CAST (I OTHER (I) DESCRIBE OTHER:
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REC	ISTERED.
DECLARATION: SERSE BOCHNOVICH Sements Semployed by CVARK (VOPER and being responsibility for the quality of the end product do solemnly declare that the information contained in my knowledge represents the product for which registration is sought. The dimensions, materials of temperature ratings, and identification markings are in accordance with the herein named standard manufacture of these fittings is regulated by a Quality Control Program which extends to each plant or in part and has been verified by INTERTEK as being suitable for that product aration conscientiously believing it to be true and knowing that it is of the same force and effect Signature of Declarer: Declared before me at CLARIN COOPER U.S.E.T.H.1.S.S.	n this form is true and to the best of if construction, pressure s. I further declare that the
Commissioner of Oaths or Notary Public; (sign) (Affix Official seal to the right)	I A L
This registration must be revalidated after ten (10) years from the date of ac	cepiance.
CRN: 0C13483.5 REV2 FIDM: 14967 CRU EXPIDES MAY 10, 2029 D. 6. Notice: 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. Northwest Vernitories REGISTERE UNDER THE AUTHO THE BOILER AND PI VESSEL ACT C.R.N. (2013 1/8): SIGNED	ED ORITY OF RESSURE
DATE June 3	

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS **NEW BRUNSWICK NOVA SCOTIA** PRINCE EDWARD ISLAND NEWFOUNDLAND AND LABRADOR NUNAVUT NORTHWEST TERRITORIES MANUFACTURERS NAME: CLARK COOPER PIVISION, MAGNATROL VALVE CORP MANUFACTURERS ADDRESS: 941 HAMILTON AVE Roelling NJ 08554 PLANT LOCATIONS CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY THE OF THE STANDARD OF CONSTRUCTION A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line velves 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 **ASME B16.34** 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) SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT TYPE OF CONSTRUCTION FORGED D WELDED D WROUGHT D
CAST D OTHER D
DESCRIBE OTHER LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED; drawings CALCULATIONS DECLARATION: BOCHNEVICT and being the person having full authority and SERGE 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 when iole

declaration conscientiously believing it to be true and knowing that	as being suitable for that purpose and I make this solemn it is of the same force and effect as if made under oath.
Signature of Declarer:	» ' 8%
Declared before me at CLARN COOPER	USETHIS SPACE FOR
This 16 day of APRIL AD 2019	OFFICIAL
Commissioner of Oaths or Notary Public: (sign) (Affix Official seal to the right)	NUNATUT
This space for Regulation This space for Regulation This registration must be revalidated after t	er (10) years from the date of acceptance
CRN: 0C13483.5 REV2	1
FID#: 14967	REGISTERED
CRU EXPIRES MAY 10, 2029 D.G.	CRN OC 13483, 5 N Ruz
1. All fillings shall be registered in the name of the Manufacturer	Date May 31, 2019
Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. The doclaration 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.	SignedChief-Inspector
at a maximum interval of five (5) years.	Territorial Registration Foo



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

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.gc.ca/fittings-py.

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 SP GROUP			
3		CRN: CSA - OC 13483-5682			
4		CRN: CST OC ST DO GE			
5		D it is December of hy			
		Registration Process administered by			

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.

I, the undersigned	Serge Bo	chnovich	E	Engineering Manager
0.0.	(Name of the per	(hlama of the nesson in shorts)		Title of the person in charge)
from Clark Co	poper, Magnatrol Inc	located at	up 941 Hamilton Av	enue, Roebling NJ 08554
	ompany's name)		(Pl	int's address)
hereby declare tha	at the above-mentioned fitting	ngs and subject to the	Regulation respecting p	ressure installations:
comply with the or	e requirements of the ANSI	/ASME codes as to the	ir dimensions, identifica	ation, material and purpose
are not covered	d by the ANSI/ASME codes	, but are in compliance	with	
				(Name of code or standard)
code or standard a	and are designed according	to the best current en	gineering practice, as p	roven by the enclosed approval report.
L AMAGEMENT TANKS				
2.2 Manufacturin	g quality control			
I further declare th	at the manufacture of these	fittings is controlled by	a quality control progra	m that complies with the requirements of the
following code:	ISO 9001:2015 , and	t has been verified by	Interte	k Testing Services, Inc
Tollowing code	(Name of code)	Thas been vermed by		(Authorized agency)
Signature of the pe	erson in charge: Sa	Bohn	Date (yyyy-mm-dd):	2019/05/30
				1 /

- 1. 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.



2.1 Design

3. Declaration of commissioner for oaths

I certify that this declaration	has been administered before me, at ROEBLING, NJ, on 2016 (Location)	7, 06, 06
Signature of commissioner	or oaths: Date (yyyy-mm-d	d):2019-06-06
Stamp the seal:	Let Actional quantity (22)	
Manner Meaning		
	Technical Ravity informed per JSA ISSI (Partonned by Midtle Editoriasis) Inc.	
	CHRYSSA WILSON NOTARY PUBLIC OF NEW JERSEY Comm. # 2429800 My Commission Expires 217/2023	
	(A101)	

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

accepted for registration in the class	ments of the Act and with standard CSA B51, Part 1, section 4.2, and is 2.9 registration indicated above, and it must be validated again after this period.
Canadian registration number (CRN): CSA - OC13 483.56 R2	Registration date (yyyy-mm-dd): Jun · 20 · 2019 REGISTERED CRN: CSA - OC 13 + B3.56 R2 R. W. Barnes Registration Process administered by
	CSA Group per CSA B51

Documents to attach

Any application registration for fittings must include these documents:

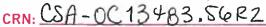
- Statutory Declaration Registration of Fittings (2 copies)
- Detailed calculations or burst test report (1 copy)
- Detailed technical drawings or catalogues (2 copies)
- · Example of the manufacturer's marking (1 copy)
- Proof that a valid and approved quality control program has been implemented (1 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, 7º étage Montréal (Québec) H2M 2V2

REGISTERED





2202 2nd Ave.

Technical

Regina, SK S4R 1K3

PH: (306)798-7112 Toll Free: (866)530-8599

FAX: (306)787-9273 Toll Free: (866)760-9255

Of Saskatchewan

Registration Process administere@may. boileroemits@tsask.ca

Website: www.tsask.ca CSA Group per CSA B51

Statutory Declaration (Registration of Fittings)

Technical

TSK-1008

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l. Declaration	Information						
Serge Bochno	vich	or for a second		A al rand		this space, show	
Engineering M	lanager	nager LULAZOVIA populiti NZO				manufacturer's logo or trademark as it will appear on the fitting.	
	ompany title, e.g. vice pres position of authority in the			s produced)			mali .
-	Division, Magnatrol V				501	16	
		ne of manufacturer)	18m other	Washing Tiller	Loco		
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•	lant Address – Apt/Street) are that the fittings list of (check one)		, which are	(City Prov) subject to the S	Saskatche	•	al Code) and Pressure
Comply wit	h the requirements	of ASME B16.34	1		which spe	ecifies the di	mensions,
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to comply v	vith				as su	upported by	the attached
data which	identifies the dimen	sions, materials	of construct	ion, pressure /	temperatu	ure ratings ar	nd the basis
for such rat	tings, and the marki	ng of the fittings t	for identifica	tion.			
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support of this	application, the follo	wing information	calculation	s and / or test o	data are a	ttached:	
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				HE GROUP		<u></u>	DOYNO

1. See attachment as the scope of registration.
2. Renewal registration without design change.
3. This registration covers only the valves in full compliance with B16.3. technical review performed in the previous registration.





345 Carlingview Drive Toronto Ontano 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 RPODUCT 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 ATTACHMENT TO

C.R.N. SA-OC 3483 16R2

Signed:

178 Rexdale Bodevard, Toronto, ON Canada M9W 1R3

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 (\$43000)

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
1/2"	625	1500
3/4"	500	1200
1"	500	1200
1.5"	500	1200
2.0"	500	1200



THIS IS PART OF
CRN CL13463.5R7
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

AFFLICABLE TO VALVE GODY MAT'L



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: OMS-0505b

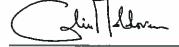
Initial Certification Date: 29 January 2010

Date of Certification Decision: 30 November 2018

Issuing Date: 30 November 2018

Valid Until: 28 January 2022

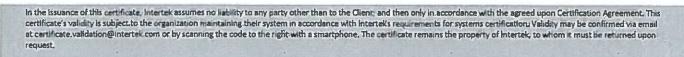




Calin Moldovean
President, Business Assurance

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









March 2019

<u>CRN – Canadian Registration Numbers – Saskatchewan</u>

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

