

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

Toll Free: 1.877.682.8772

www.tssa.org

July 09, 2018

CHAD THOMAS
ENGINEERED CONTROLS INTERNATIONAL LLC
100 REGO DR
ELON NC 27244
US

Service Request Type: BPV-Fitting Registration

Service Request No.: 2307138

Your Reference No.:

Registered to: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear CHAD THOMAS,

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

CRN No.:

0C20511.5

Main Design No.:

REGULATORS & VALVES - SEE SCOPE OF REGISTRATION (9 PGS)

Expiry Date:

09-Jul-2028

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

The stamped copy of the approved registration and the invoice are mailed separately. 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,

Charley Dong, M(Sc. P.Eng.

Mechanical Engineer

Tel.: 416-734-3436 Fax: 416-231-6183 Email: cdong@tssa.org



PV 09553 (06/16)

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



STATUTORY DECLARATION Registration of Fittings
CHAD THOMAS, VP GLOBAL ENGINEERING
(Name and Position, e.g. President, Plant Manager, Chief Engineer)
of ENGINEERED CONTROLS INTERNATIONAL. LLC
(Name of Manufacturer)
Located at 100 REGO DRIVE, ELON, NC - 27244 336-449-7707
(Plant Address) (Telephone No.) (Fax No.)
do solemnly declare that the fittings listed hereunder, which are subject to the <i>Technical Standards and Safety Act</i> , Bo and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.1
(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 to as supported by the attached data which identifies the dimensions, material of construct 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 ISO90001
which has been verified by the following authority, UNDERWRITERS LABORATORY INC
The items covered by this declaration, for which I seek registration, are category C type fittings. In support
this application, the following information and/or test data are attached as follows:  SEE ATTACHED LIST
(drawings, calculations, test reports, etc.)
Declared before me at Alamance Conunty in the Gate of NIAh Caroll
Jennifer Versage Watson
the day of AD 20 Notary Public Rockingham County
Commissioner for Oaths:
My Commission Expires 03/05/2023
The state of the s
Mullimond Musy Comments
(Signature) (Signature of Declarer)
FOR OFFICE USE ONLY Technical Boilers and
To the best of my knowledge and belief, the application meets the requirements of the Standards
Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and Safety Authority Safety Programmer Safety Authority
CSA Standard B51 and is accepted for registration in Category
CRN: OC 20511.5 NOTE: SEE ATTACHED REGISTERED
Registered by: Charles Dong FOR THE SCOPE C.R.N.: 0C 20511.5
Dated: July 9/18 Signed: Minds June 155A
NOTE: This registration expires on: July 9, 2028 July 9/18 Date: D

	Category	System Number 4403-S4	<b>Description</b> Regulator	Body Number 4403-1J 4403-168	Body Material  Zinc Die Casting ASTM B86  Brass Rod LINS C36000 ASTM B16		Service Pressure (Psi) 250	
		4403-54	Regulator	4403-16B	Brass Rod UNS C36000, ASTM B16	TM B16		250
	<b>n</b>	5755A	Regulator	4403-1J	Zinc Die Casting ASTM B86	B86		250
	(	0,000	Negalatol	4403-34J	Zinc Die Casting ASTM B86	1 B86		250
	С	5754B4	Regulator	4403-1J	Zinc Die Casting ASTM B86	M B86		250
				4403-34J	Zinc Die Casting ASTM B86	STM B86		250
	С	5720B34	Regulator	3403A-4B	Zinc Die Casting ASTM B86	STM B86		250
	С	LV4403N4	Regulator	4403-34J	Zinc Die Casting ASTM B86	\STM B86		150
				4403-16B	Brass Rod UNS C36000, ASTM B16	000, ASTM B16		250
	С	LV404B SER	Regulator	3403A-1	Zinc Die Casting ASTM B86	ng ASTM B86		150
				C404-1	Zinc Die Casting ASTM B86	ng ASTM B86	ng ASTM B86 250	
				C404-2	Brass Forging Alloy, ASTM B283	ру, ASTM B283	ру, ASTM B283 250	
	С	LV404B34	Regulator	3403A-1	Zinc Die Casting ASTM B86	g ASTM B86	g ASTM B86 150	
				C404-1	Zinc Die Casting ASTM B86	g ASTM B86		250
_	C	LV3403K	Regulator	3403-1BSP	Zinc Die Casting ASTM B86	g ASTM B86		150
	C	LV3403TR	Regulator	3403-1BSP	Zinc Die Casting ASTM B86	ASTM B86		150
	0	LV3403TRH	Regulator	3403-1BSP	Zinc Die Casting ASTM B86	ASTM B86		150
	С	LV3403TRL	Regulator	3403-1BSP	Zinc Die Casting ASTM B86	ASTM B86		150
	С	LV3403UR	Regulator	3403-1	Zinc Die Casting ASTM B86	ASTM B86		150
_	С	LV3403VR	Regulator	3403-1	Zinc Die Casting ASTM B86	ASTM B86		150
_	C	LV4289-10	Regulator	3403A-1C	Zinc Die Casting ASTM B86	ASTM B86		150
	С	LV3403VR	Regulator	3403-1	Zinc Die Casting ASTM B86	ASTM B86		150
5	DADT	LV4403B SER	Regulator	4403-1J	Zinc Die Casting ASTM B86	ASTM B86	ASTM B86 150	150
	PAH	7		4403-34J	Zinc Die Casting ASTM B86	ASTM B86	ASTM B86 150	
CHNUC	0420511.5	V)		4403-20A	Brass Rod UNS C36000, ASTM B16	00, ASTM B16	00, ASTM B16 250	
Stand	Technical Standards & Safety Authority	uthority		4403-20B	Brass Rod UNS C36000, ASTM B16	00, ASTM B16	00, ASTM B16 250	
φ <del>1</del>	Boilers & Pressure Vessels	ssels		4403-20C	Brass Rod UNS C36000, ASTM B16	00, ASTM B16	00, ASTM B16 250	
g	odiety Division			4403-12A	Brass Rod UNS C36000, ASTM B16	00, ASTM B16	00, ASTM B16 250	
	С	LV440366L SER	Regulator	4403-34J	Zinc Die Casting ASTM B86	ASTM B86	ASTM B86 150	
				4403-20C	Brass Rod UNS C36000, ASTM B16	00, ASTM B16	00, ASTM B16 250	



	765	3 -						
-40	165	150	Zinc Die Casting ASTM B86	4403-1JP	Regulator	LV44031	_	
-40	165	250	Brass Rod UNS C36000, ASTM B16	4403-16B				
-40	165	250	Brass Rod UNS C36000, ASTM B16	4403-16A				
-40	165	150	Zinc Die Casting ASTM B86	4403-16				
-40	165	150	Zinc Die Casting ASTM B86	4403-34JP				
-40	165	150	Zinc Die Casting ASTM B86	4403-1JP	Regulator	LV4403SR	С	
-40	165	250	Brass Rod UNS C36000, ASTM B16	4403-12A				
-40	165	150	Zinc Die Casting ASTM B86	4403-1JP	Regulator	LV4403M2	C	
-40	165	250	Brass Rod UNS C36000, ASTM B16	4403-20B				
-40	165	250	Brass Rod UNS C36000, ASTM B16	4403-20A				
-40	165	250	Brass Rod UNS C36000, ASTM B16	4403-20				
-40	165	150	Zinc Die Casting ASTM B86	4403-34JP				
-40	165	150	Zinc Die Casting ASTM B86	4403-1JP	Regulator	LV4403C	C	
-40	165	250	Brass Rod UNS C36000, ASTM B16	4403-20A				
-40	165	150	Zinc Die Casting ASTM B86	4403-1JP	Regulator	LV4403C2H42	Division	Safety
-40	165	250	Brass Rod UNS C36000, ASTM B16	4403-20C		ols	essure Vess	Boilers & Pressure Ves
-40	165	250	Brass Rod UNS C36000, ASTM B16	4403-20B		hority	rds & Safety Auth	Technical Standards & Safety Aut
-40	165	250	Brass Rod UNS C36000, ASTM B16	4403-12A			OC 20511.4	CRN OC
-40	165	150	Zinc Die Casting ASTM B86	4403-34JP		TI	PART O	SI SIHT
-40	165	150	Zinc Die Casting ASTM B86	4403-1JP	Regulator	LV4403H	C	
-40	165	250	Brass Rod UNS C36000, ASTM B16	4403-12K				
-40	165	150	Zinc Die Casting ASTM B86	4403-34KP	Regulator	LV4403K	0	
-40	165	250	Brass Rod UNS C36000, ASTM B16	4403-32C				
-40	165	150	Zinc Die Casting ASTM B86	4403-1MP	Regulator	LV4403B66RA	С	
-40	165	250	Brass Rod UNS C36000, ASTM B16	4403-20C				
-40	165	250	Brass Rod UNS C36000, ASTM B16	4403-20B				
-40	165	150	Zinc Die Casting ASTM B86	4403-R	Regulator	LV4403BR	C	
-40	165	250	Brass Rod UNS C36000, ASTM B16	4403-20B				
-40	165	150	Zinc Die Casting ASTM B86	4403-1J	Regulator	LV4403B4HDLP	C	
(F)	(F)	(Psi)						
Temp	Temp	Pressure	Body Material	Body Number	Description	Number	Category	
Min	Max	SOLVICE				system	200000	

														Safet	Boilers & P	Technical Stand	CHNOC	COLO	TUID													
С					C	)	C			С			C	Satety Division	Boilers & Pressure Vessels	Technical Standards & Safety Authority	CHN OC 20591:5				0					C					Category	
LV5503H					LV5503B		LV5503G4			LV5503C			LV4403YR		els	ority	LV4403Y				LV4403V					LV4403V					Number	System
Regulator					Regulator		Regulator			Regulator			Regulator				Regulator				Regulator					Regulator				STATE OF THE PARTY	Description	
5503-35C	5503-18C	4403-16C	4403-16B	5503-35D	5503-35C	4403-16B	5503-35C	4403-12B	4403-12	5503-1C	4403-16C	4403-16B	4403-R	4403-16C	4403-16B	4403-34JP	4403-1JP	4403-16B	4403-16	4403-34JP	4403-1JP	4403-16C	4403-16B	4403-16	4403-34JP	4403-1JP	4403-16C	4403-16B	4403-16		<b>Body Number</b>	
Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86		Body Material	
150	250	250	150	150	150	250	150	250	150	150	250	150	150	250	150	150	150	250	150	150	150	250	250	150	150	150	250	250	150	(Psi)	Pressure	Service
165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	(F)	Temp	Max
-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	(F)	Temp	Min

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Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Division

	System				Service	Max	Min
category		Description	Body Number	Body Material	Pressure (Psi)	Temp (F)	Temp (F)
			5503-35D	Zinc Die Casting ASTM B86	150	165	-40
			4403-16B	Zinc Die Casting ASTM B86	150	165	-40
30 1 1 1			4403-16C	Brass Rod UNS C36000, ASTM B16	250	165	-40
			5503-18C	Brass Rod UNS C36000, ASTM B16	250	165	-40
0	LV5503K	Regulator	5503-1DBSP	Zinc Die Casting ASTM B86	150	165	-40
			5503-1CBSP	Zinc Die Casting ASTM B86	150	165	-40
			4403-16K	Brass Rod UNS C36000, ASTM B16	250	165	-40
			5503-18K	Brass Rod UNS C36000, ASTM B16	250	165	-40
0	LV5503Y	Regulator	5503-35C	Zinc Die Casting ASTM B86	150	165	-40
			5503-35D	Zinc Die Casting ASTM B86	150	165	-40
			5503-18C	Zinc Die Casting ASTM B86	150	165	-40
0	LV404Y9	Regulator	LV4403-1	Zinc Die Casting ASTM B86	150	165	-40
			C404-2	Brass Forging Alloy, ASTM B283	250	165	-40
0	LV404B39	Regulator	3403A-1A	Zinc Die Casting ASTM B86	150	165	-40
			C404-2	Brass Forging Alloy, ASTM B283	250	165	-40
0	LV404B34	Regulator	3403A-1A	Zinc Die Casting ASTM B86	150	165	-40
			C404-1	Zinc Die Casting ASTM B86	250	165	-40
C	LV3403B	Regulator	3403A-1B	Zinc Die Casting ASTM B86	150	165	-40
C	4403W	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
			4403-16	Brass Rod UNS C36000, ASTM B16	250	165	-40
			4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
			4403-20B	Brass Rod UNS C36000, ASTM B16	250	165	-40
C	6579	Filler Valve	LEX7579-1	Brass Rod UNS C36000, ASTM B16	250	165	-40
	1935		L7579-2	Brass Rod UNS C36000, ASTM B16	250	165	-40
			6579-2SS	304/305 Annealed Stainless Steel	250	165	-40
0	8530	Delta Port	LEX7579-1	Brass Rod UNS C36000, ASTM B16	250	165	-40
C	7579	Filler Valve	6579-1E	Brass Rod UNS C36000, ASTM B16	250	165	-40
			7579-1E	Brass Rod UNS C36000, ASTM B16	250	165	-40
			7579-2A	Brass Rod UNS C36000, ASTM B16	250	165	-40
SPART	OF -		7579-7	Brass Rod UNS C36000, ASTM B16	250	165	-40

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Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Division

	,																													
C		5211		C					С	С	C	C		С		C		С		С		С		С	С	C	С		Category	
BB9408T				AR4108A SER					AR4106A SER	VA6024	VA6016	VA6010		FVA6024		FVA6016		FVA6010		FA6024		FA6016		FA6010	A6024	A6016	A6010		Number	System
				Relief Valve					Relief Valve	ESV	ESV	ESV		ESV	ESV	ESV	ESV		Description											
BB9408T-1CA	AR4108A-2	AR4108A-3	AR4108A-20	AR4108A-1		AR4106A-2	AR4106A-3	AR4106A-20	AR4106A-1	6024-1A	6016-1D	A6010-1	FA6024-2	FA6024-1	FA6016-2	FA6016-1	FA6010-2	FA6010-1	FA6024-2	FA6024-1	FA6016-2	FA6016-1	FA6010-2	FA6010-1	6024-1A	6016-1D	A6010-1		<b>Body Number</b>	
Bronze Cast Alloy, UNS C92200, ASTM B61/584	FC Stainless Steel, UNS C30300, ASTM A581/582/A314	FC Brass Rod, UNS C36000, ASTM B16	FC Brass Rod, UNS C36000, ASTM B16	FC Brass Rod, UNS C36000, ASTM B16	A581/582/A314	FC Stainless Steel, UNS C30300, ASTM	FC Brass Rod, UNS C36000, ASTM B16	FC Brass Rod, UNS C36000, ASTM B16	FC Brass Rod, UNS C36000, ASTM B16	Ductile Iron ASTM A395		Body Material																		
720	600	600	600	600		600	600	600	600	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	(Psi)	Pressure	Service
165	165	165	165	165		165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	(F)	Temp	Max
-320	-320	-320	-320	-320		-320	-320	-320	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	(F)	Temp	Min

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Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Division

Body Number         Body Material           Globe Valve         458451-22         304L Stainless Steel, UNS C30403, ASTM A249/A269           B9402-11         FC Brass Rod, UNS C36000, ASTM B16           BB9408-2         Pellow Brass Forging, UNS C36000, ASTM B16           Globe Valve         2554-1         Copper Alloy Castings, UNS C36000, ASTM B16           Relief Valve         2554-6A         FC Brass Rod, UNS C36000, ASTM B16           Relief Valve         AR4106A-1         FC Brass Rod, UNS C36000, ASTM B16           AR4106A-2         FC Brass Rod, UNS C36000, ASTM B16           AR4106A-3         FC Brass Rod, UNS C36000, ASTM B16           AR4106A-2         FC Brass Rod, UNS C36000, ASTM B16           AR4106A-3         FC Brass Rod, UNS C36000, ASTM B16           AR4106A-2         FC Brass Rod, UNS C36000, ASTM B16           AR4106A-2         FC Brass Rod, UNS C36000, ASTM B16
Body Material  304L Stainless Steel, UNS C30403, ASTM A249/A269  FC Brass Rod, UNS C36000, ASTM B16 Yellow Brass Forging, UNS C36000, ASTM B16 Copper Alloy Castings, UNS C36000, ASTM B16 FC Brass Rod, UNS C36000, ASTM B16 FC Stainless Steel, UNS C30300, ASTM B16 FC Stainless Steel, UNS C30300, ASTM B16 FC Brass Rod, UNS C30000, ASTM B16 FC Brass Rod, UNS C30000, ASTM B16 FC Brass Rod, UNS C30000, ASTM B16 Yellow Brass Forging, UNS C37700, ASTM B16 Bronze Cast Alloy, UNS C36000, ASTM B16
Max Temp (F)  165  165  165  165  165  165  165  16

Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Division

Category	System Number	Description	Body Number	Body Material	Service Pressure	Max Temp
			B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165
С	BB9406T	Globe	BB9406T-1	Bronze Cast Alloy, UNS C92200, ASTM B61/B584	720	165
		Valve	B8402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165
			458451-22	304L SS Rod, U NS S30403, ASME A249	720	165
			BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165
			B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165
С	BB9416T	Globe	BB9416T-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165
		Valve	222X16-22P	304L Stainless Steel, UNS C30403, ASTM	720	165
				A249/A269		
			B9416-10	FC Brass Rod, UNS C36000, ASTM B16	720	165
		10	BB9416-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165
			B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165
С	BB9402S	Globe	BB9404-1CB	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165
		Valve	458450-22	304L Stainless Steel, UNS C30403, ASTM	720	165
				A249/A269		
			BB-9404-2F	Yellow Brass Forge, B283, UNS C37700	720	165
			B-9402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165
			452538-12	FC Brass Rod, UNS C36000, ASTM B16	720	165
С	BB9412F	Globe	BB9409F-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165
		Valve	458432-22	304L Stainless Steel, UNS C30403, ASTM	720	165
			B0/10-11	EC Brace Bod TINE C36000 ACTIVE B16	770	201
			BB9409-20	Yellow Brass Forging, UNS C37700, ASTM B283	720	165
			B9410-2	FC Brass Rod, UNS C36000, ASTM B16	720	165
C	BB9406S	Globe	BB9406S-1	Bronze Cast Alloy, UNS C92200, ASTM B61/B584	720	165
		Valve	B8402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165
			458451-22	304L SS Rod, U NS S30403, ASME A249	720	165
			BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165
					720	165
THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, NAMED IN			B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	TOJ

THIS IS PART OF CRN (C 26511.5
Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Division

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						С						С						С						С							Category	
AR4112A SER						BB9416F						BB9402T						BB9412T						BB9412S						Marribar	Number	Syctem
Relief Valve					Valve	Globe					Valve	Globe			1,5%		Valve	Globe					Valve	Globe				Valve	Globe		Description	
AR4112A-1	B9416-6	BB9416-2	B9416-10		222X16-22P	BB9416F-1C	B9402-8	B9402-11	BB-9404-2F		458450-22	BB9404T-1CB	B9410-2	BB9409-20	B9410-11		458432-22	BB9412-1C	B9410-2	BB9409-20	B9410-11		458432-22	BB9412-1C	B9416-6	BB9416-2	B9416-10		222X16-22P		<b>Body Number</b>	
FC Brass Rod, UNS C36000, ASTM B16	FC Brass Rod, UNS C36000, ASTM B16	Yellow Brass Forging, UNS C37700, ASTM B283	FC Brass Rod, UNS C36000, ASTM B16	A249/A269	304L Stainless Steel, UNS C30403, ASTM	Bronze Cast Alloy, UNS C92200, ASTM B61/584	FC Brass Rod, UNS C36000, ASTM B16	FC Brass Rod, UNS C36000, ASTM B16	Yellow Brass Forge, B283, UNS C37700	A249/A269	304L Stainless Steel, UNS C30403, ASTM	Bronze Cast Alloy, UNS C92200, ASTM B61/584	FC Brass Rod, UNS C36000, ASTM B16	Yellow Brass Forging, UNS C37700, ASTM B283	FC Brass Rod, UNS C36000, ASTM B16	A249/A269	304L Stainless Steel, UNS C30403, ASTM	Bronze Cast Alloy, UNS C92200, ASTM B61/584	FC Brass Rod, UNS C36000, ASTM B16	Yellow Brass Forging, UNS C37700, ASTM B283	FC Brass Rod, UNS C36000, ASTM B16	A249/A269	304L Stainless Steel, UNS C30403, ASTM	Bronze Cast Alloy, UNS C92200, ASTM B61/584	FC Brass Rod, UNS C36000, ASTM B16	Yellow Brass Forging, UNS C37700, ASTM B283	FC Brass Rod, UNS C36000, ASTM B16	A249/A269	304L Stainless Steel, UNS C30403, ASTM		Body Material	
600	720	720	720		720	720	720	720	720		720	720	720	720	720		720	720	720	720	720		720	720	720	720	720		720	(Psi)	Pressure	Service
165	165	165	165		165	165	165	165	165		165	165	165	165	165		165	165	165	165	165		165	165	165	165	165		165	Ŧ.	Temp	Max
-320	-320	-320	-320		-320	-320	-320	-320	-320		-320	-320	-320	-320	-320	7	-320	-320	-320	-320	-320		-320	-320	-320	-320	-320		-320	F.	Temp	Min

THIS IS PART OF CRN () C 20511.5
Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Division

Category	System Number	Description	Description Body Number	Body Material	Service Pressure (Psi)	Max Temp	Min Temp
			AR4112A-20	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320
			AR4112A-3	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320
			AB/117A_7	FC Stainless Steel, UNS C30300, ASTM	600	165	-320
			7-77114/17	A581/582/A314			
			BR6108-5	Bronze Cast Alloy, UNS C92200, ASTM B61	600	165	-320
С	BB9416S	Globe	BB9416-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	222X16-22P	304L Stainless Steel, UNS C30403, ASTM	720	165	-320
				A249/A269			
			B9416-10	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9416-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9416-6	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320



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 22, 2020

ZAC RUBEOR
ENGINEERED CONTROLS INTERNATIONAL LLC
100 REGO DR
ELON NC 27244
US

Service Request Type: BPV-Fitting Registration

Service Request No.: 2836278

Your Reference No.:

Registered to: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear ZAC RUBEOR,

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

CRN No.: 0C20511.5ADD1

Main Design No.: ADD OF MFG LOCATION (CHINA) ONLY

Expiry Date: 09-Jul-2028

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

A stamped copy of the approved registration and invoice for engineering services will be sent 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,

Zivko Gacevic P. Eng. Mechanical Engineer, BPV

Tel.: 416-734-3429 Fax: 416-231-6183

Jacus Zol

Email: zgacevic@tssa.org



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



STATUTORY DECLARA Registration of Fittings	TION	
I.		
(Name and Position, e.g. President, Plant Manager, Chief Eng	ineer)	
of		
(Name of Manufacturer)		
Located at		
(Plant Address) (Te	elephone No.)	(Fax No.)
do solemnly declare that the fittings listed hereunder, which are subject to the <b>Tec</b> and Pressure Vessels Regulation, comply with all of the requirements of	chnical Standards and	I Safety Act, Boilers
(Title of recognized North American Standard) which specifies the dimensions, materials of construction, pressure/temperature ratings, i	dentification marking the	fittings and service;
or are not covered by the provisions of a recognized North American standard and as supported by the attached data which ider pressure/temperature ratings and the basis for such ratings, the marking of the fittin	ntifies the dimensions, ma	aterial of construction,
I further declare that the manufacture of these fittings is controlled by a quality system mee	eting the requirements o	f
which has been verified by the following authority,		
The items covered by this declaration, for which I seek registration, are categorythis application, the following information and/or test data are attached as follows:	type	e fittings. In support of
this application, the following information allow test data are attached as follows.		
(drawings, calculations, test reports, etc.)		
Declared before me at in the	of	
the day ofAD 20		
Commissioner for Oaths:		
	2/201	
(Printed name)	Zuely Kh	~
(Signature)	(Signature of Declar	er)
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'	Technical Standards and Safety Authority	Boilers and Pressure Vessels Safety Program
CRN:	REGIST	TERED
Registered by:	C.R.N.: 0C20511.5	
Dated:	Signed: Jacus ?	
NOTE: This registration expires on:Jul. 09, 2028	Date: May 22, 2	:∪∠∪.

Registered Manufacturing Locations for CRN 0C20511.5

All CRNs should be assigned to **Engineered Controls International LLC**, but some subsidiary companies may be listed on the attached quality certificates. For simplicity, the subsidiary's name is also listed in this document in association with its manufacturing location.

- 1. Engineered Controls International LLC (ECII) 100 Rego Drive, Elon, NC 27244, USA
- 2. Shanghai Rego Flow Technology Co., Ltd. (ECII China) 6999 Chuansha Rd., B11, Chuansha Industry Park Shanghai, China

## THIS IS PART OF CRN

0C20511.5ADD1

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety

Program

9410 - 20 Ave N.W. Edmonton, Alberta, Canada T6N 0A4

Tel: (780) 437-9100 / Fax: (780) 437-7787

June 10, 2020

**Attention:** Tanya Francis

TECHNICAL STANDARDS & SAFETY AUTHORITY

345 CARLINGVIEW DRIVE TORONTO, ON M9W 6N9

The design submission, tracking number 2020-02971, originally received on June 08, 2020 was surveyed and accepted for registration as follows:

**CRN:** 0C20511.52 **Accepted on:** June 10, 2020

**Reg Type:** ADDITION TO ACC. FITTING **Expiry Date:** July 09, 2028

Drawing No.: ADDITION OF MANUFACTURING LOCATION (CHINA)

Fitting type: REGULATORS & VALVES

Design registered in the name of: ENGINEERED CONTROLS INTERNATIONAL LLC

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

- \*\* The Scope of this Registration include adding a manufacturing location (Shanghai Rego Flow Technology Co, China) only. There is no design change, nor any scope change.
- \*\* Engineered Controls International LLC being the owner of the design, are responsible for the quality of this product and warranty per Engineered Controls International LLC's terms and conditions.
- \*\* Engineered Controls International LLC is in control and fully responsible for the conformity, compliance and certification of the fittings (manufactured by Shanghai Rego Flow Technology Co.) subjected to this registration

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction is ASME B31.1.

- 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 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 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.

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

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

Sincerely,



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

June 10, 2020

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

2020-02971 Page 2 of 2

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



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

Clear Form
Print Form

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



with the Electronic Transactions Act.

# STATUTORY DECLARATION Registration of Fittings Zachary Rubeor, Design Engineer (Name and Position, e.g. President, Plant Manager, Chief Engineer) of Engineered Controls International LLC (Name of Manufacturer) **Located at** See List of Manufacturing Locations 1-336-446-7219 (Plant Address) (Telephone No.) (Fax No.) do solemnly declare that the fittings listed hereunder, which are subject to the Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, comply with all of the requirements of **ASME B31.1** (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 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 \_ISO90001 which has been verified by the following authority, <u>UNDERWRITERS LABORATORY INC</u> The items covered by this declaration, for which I seek registration, are category \_ type fittings. In support of this application, the following information and/or test data are attached as follows: SEE ATTACHED LIST (drawings, calculations, test reports, etc.) Declared before me at \_\_\_\_\_\_ in the \_\_\_\_\_ \_\_\_\_\_ day of \_\_\_\_\_ AD 20\_\_\_\_ Commissioner for Oaths: (Printed name) (Signature) (Signature of Declarer) FOR OFFICE USE ONLY 2020-02971 To the best of my knowledge and belief, the application meets the requirements of the ABSA Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and **SAFETY CODES ACT - PROVINCE OF ALBERTA** CSA Standard B51 and is accepted for registration in Category **ACCEPTED: 0C20511.52** See acceptance letter for CRN: conditions of registration. Registered by: **ASHLING DICK, P. Eng** This stamp and signature have been affixed electronically Dated: to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance

PV 09553 (06/16)

NOTE: This registration expires on:

#### Registered Manufacturing Locations for CRN 0C20511.5

All CRNs should be assigned to **Engineered Controls International LLC**, but some subsidiary companies may be listed on the attached quality certificates. For simplicity, the subsidiary's name is also listed in this document in association with its manufacturing location.

- 1. Engineered Controls International LLC (ECII) 100 Rego Drive, Elon, NC 27244, USA
- 2. Shanghai Rego Flow Technology Co., Ltd. (ECII China) 6999 Chuansha Rd., B11, Chuansha Industry Park Shanghai, China

ABSA
SAFETY CODES ACT - PROVINCE OF ALBERTA
ACCEPTED: 0C20511.52
See acceptance letter for conditions of registration.
Date: 2020-06-10 By: Ashling Dick, P. Eng.

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.



2202 2nd Avenue Regina, SK S4R 1K3 Canada 1 (866) 530-8599 info@tsask.ca www.tsask.ca

#### REGISTRATION OF A PRESSURE FITTING DESIGN

26-Aug-20

TSSA 345 Carlingview Drive Toronto, Ontario M9W 6N9

Attention: Tanya Francis File Number: 11645 [ 0 F]

Re: Manufacturer: Engineered Controls International, LLC

Item: Valves

Catalog or Drawing: Original Scope of Registration & List of Manufacturing Locations

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:

OC20511.53 Expiry Date: July 9, 2028

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:

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

This registration includes the addition of manufacturing locations as well as the original registered design which was not previously registered in Saskatchewan.

Due to COVID-19 restrictions, this registration is conditional based on TSASK receiving a valid Statutory Declaration that has been witnessed and signed by a Commissioner of Oaths or a Notary Public at your earliest convenience.



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



# STATUTORY DECLARATION **Registration of Fittings** (Name and Position, e.g. President, Plant Manager, Chief Engineer) (Name of Manufacturer) Located at (Plant Address) (Telephone No.) (Fax No.) do solemnly declare that the fittings listed hereunder, which are subject to the Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, comply with all of the requirements of (Title of recognized North American Standard) which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service; or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with 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 which has been verified by the following authority, this application, the following information and/or test data are attached as follows: (drawings, calculations, test reports, etc.) Declared before me at \_\_\_\_\_\_ of \_\_\_\_ in the \_\_\_\_\_ of \_\_\_ the \_\_\_\_\_ day of \_\_\_\_\_ AD 20\_\_\_\_. Commissioner for Oaths: (Printed name) (Signature) (Signature of Declarer) FOR OFFICE USE ONLY To the best of my knowledge and belief, the application meets the requirements of the Technical Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and Safety Authority of Saskatchewan CSA Standard B51 and is accepted for registration in Category OC20511.53 11645 CRN: Registered August 26, 2020 Registered by: July 9, 2028 Codes & Standards Compliance Office Dated: NOTE: This registration expires on:

## Registered Manufacturing Locations for CRN 0C20511.5

All CRNs should be assigned to **Engineered Controls International LLC**, but some subsidiary companies may be listed on the attached quality certificates. For simplicity, the subsidiary's name is also listed in this document in association with its manufacturing location.

- 1. Engineered Controls International LLC (ECII) 100 Rego Drive, Elon, NC 27244, USA
- 2. Shanghai Rego Flow Technology Co., Ltd. (ECII China) 6999 Chuansha Rd., B11, Chuansha Industry Park Shanghai, China



Categor	System Number	Description	Body Number	Body Material	Service Pressure (Psi)	Max Temp (F)	Min Temp (F)
С	4402.54	Dogulaton.	4403-1J	Zinc Die Casting ASTM B86	250	165	-40
C	4403-S4	Regulator	4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
6	F7FFD4	Desulates	4403-1J	Zinc Die Casting ASTM B86	250	165	-40
С	5755B4	Regulator	4403-34J	Zinc Die Casting ASTM B86	250	165	-40
С	5754B4	Regulator	4403-1J	Zinc Die Casting ASTM B86	250	165	-40
			4403-34J	Zinc Die Casting ASTM B86	250	165	-40
С	5720B34	Regulator	3403A-4B	Zinc Die Casting ASTM B86	250	165	-40
С	LV4403N4	Regulator	4403-34J	Zinc Die Casting ASTM B86	150	165	-40
			4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
С	LV404B SER	Regulator	3403A-1	Zinc Die Casting ASTM B86	150	165	-40
			C404-1	Zinc Die Casting ASTM B86	250	165	-40
			C404-2	Brass Forging Alloy, ASTM B283	250	165	-40
С	LV404B34	Regulator	3403A-1	Zinc Die Casting ASTM B86	150	165	-40
		097	C404-1	Zinc Die Casting ASTM B86	250	165	-40
С	LV3403K	Regulator	3403-1BSP	Zinc Die Casting ASTM B86	150	165	-40
С	LV3403TR	Regulator	3403-1BSP	Zinc Die Casting ASTM B86	150	165	-40
С	LV3403TRH	Regulator	3403-1BSP	Zinc Die Casting ASTM B86	150	165	-40
С	LV3403TRL	Regulator	3403-1BSP	Zinc Die Casting ASTM B86	150	165	-40
С	LV3403UR	Regulator	3403-1	Zinc Die Casting ASTM B86	150	165	-40
С	LV3403VR	Regulator	3403-1	Zinc Die Casting ASTM B86	150	165	-40
С	LV4289-10	Regulator	3403A-1C	Zinc Die Casting ASTM B86	150	165	-40
С	LV3403VR	Regulator	3403-1	Zinc Die Casting ASTM B86	150	165	-40
С	LV4403B SER	Regulator	4403-1J	Zinc Die Casting ASTM B86	150	165	-40
S IS PART			4403-34J	Zinc Die Casting ASTM B86	150	165	-40
10020511	· 5		4403-20A	Brass Rod UNS C36000, ASTM B16	250	165	-40
al Standards & Safe	T I		4403-20B	Brass Rod UNS C36000, ASTM B16	250	165	-40
rs & Pressure			4403-20C	Brass Rod UNS C36000, ASTM B16	250	165	-40
Safety Division			4403-12A	Brass Rod UNS C36000, ASTM B16	250	165	-40
С	LV440366L SER	Regulator	4403-34J	Zinc Die Casting ASTM B86	150	165	-40
			4403-20C	Brass Rod UNS C36000, ASTM B16	250	165	-40

	Category	System Number	Description	Body Number	Body Material	Service Pressure (Psi)	Max Temp (F)	Min Temp (F)
	С	LV4403B4HDLP	Regulator	4403-1J	Zinc Die Casting ASTM B86	150	165	-40
				4403-20B	Brass Rod UNS C36000, ASTM B16	250	165	-40
	С	LV4403BR	Regulator	4403-R	Zinc Die Casting ASTM B86	150	165	-40
				4403-20B	Brass Rod UNS C36000, ASTM B16	250	165	-40
				4403-20C	Brass Rod UNS C36000, ASTM B16	250	165	-40
	С	LV4403B66RA	Regulator	4403-1MP	Zinc Die Casting ASTM B86	150	165	-40
				4403-32C	Brass Rod UNS C36000, ASTM B16	250	165	-40
	С	LV4403K	Regulator	4403-34KP	Zinc Die Casting ASTM B86	150	165	-40
				4403-12K	Brass Rod UNS C36000, ASTM B16	250	165	-40
	C	V4403H	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
HIS IS	PART O	F	2000	4403-34JP	Zinc Die Casting ASTM B86	150	165	-40
	20511.5			4403-12A	Brass Rod UNS C36000, ASTM B16	250	165	-40
obnical Standa	rds & Safety Aul	hority		4403-20B	Brass Rod UNS C36000, ASTM B16	250	165	-40
childres & Pr	essure Ves	sols		4403-20C	Brass Rod UNS C36000, ASTM B16	250	165	-40
Safety	Division	LV4403C2H42	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
				4403-20A	Brass Rod UNS C36000, ASTM B16	250	165	-40
	С	LV4403C	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
				4403-34JP	Zinc Die Casting ASTM B86	150	165	-40
				4403-20	Brass Rod UNS C36000, ASTM B16	250	165	-40
				4403-20A	Brass Rod UNS C36000, ASTM B16	250	165	-40
				4403-20B	Brass Rod UNS C36000, ASTM B16	250	165	-40
	С	LV4403M2	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
				4403-12A	Brass Rod UNS C36000, ASTM B16	250	165	-40
	С	LV4403SR	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
				4403-34JP	Zinc Die Casting ASTM B86	150	165	-40
				4403-16	Zinc Die Casting ASTM B86	150	165	-40
				4403-16A	Brass Rod UNS C36000, ASTM B16	250	165	-40
				4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
	С	LV4403T	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
			320	4403-34JP	Zinc Die Casting ASTM B86	150	165	-40

	Category	System Number	Description	Body Number	Body Material	Service Pressure (Psi)	Max Temp (F)	Min Temp (F)
				4403-16	Zinc Die Casting ASTM B86	150	165	-40
				4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
				4403-16C	Brass Rod UNS C36000, ASTM B16	250	165	-40
	С	LV4403V	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
				4403-34JP	Zinc Die Casting ASTM B86	150	165	-40
				4403-16	Zinc Die Casting ASTM B86	150	165	-40
				4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
				4403-16C	Brass Rod UNS C36000, ASTM B16	250	165	-40
	С	LV4403V	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
				4403-34JP	Zinc Die Casting ASTM B86	150	165	-40
				4403-16	Zinc Die Casting ASTM B86	150	165	-40
THIS IS	PART O	F		4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
CRN OC2	20591.6	LV4403Y	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
Technical Standar	ds & Safety Auth	ority		4403-34JP	Zinc Die Casting ASTM B86	150	165	-40
Boilers & Pre	ssure Vess	els		4403-16B	Zinc Die Casting ASTM B86	150	165	-40
Safety	Division			4403-16C	Brass Rod UNS C36000, ASTM B16	250	165	-40
	С	LV4403YR	Regulator	4403-R	Zinc Die Casting ASTM B86	150	165	-40
				4403-16B	Zinc Die Casting ASTM B86	150	165	-40
				4403-16C	Brass Rod UNS C36000, ASTM B16	250	165	-40
	С	LV5503C	Regulator	5503-1C	Zinc Die Casting ASTM B86	150	165	-40
				4403-12	Zinc Die Casting ASTM B86	150	165	-40
				4403-12B	Brass Rod UNS C36000, ASTM B16	250	165	-40
	С	LV5503G4	Regulator	5503-35C	Zinc Die Casting ASTM B86	150	165	-40
				4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
	С	LV5503B	Regulator	5503-35C	Zinc Die Casting ASTM B86	150	165	-40
1				5503-35D	Zinc Die Casting ASTM B86	150	165	-40
				4403-16B	Zinc Die Casting ASTM B86	150	165	-40
				4403-16C	Brass Rod UNS C36000, ASTM B16	250	165	-40
Ĥ				5503-18C	Brass Rod UNS C36000, ASTM B16	250	165	-40
	С	LV5503H	Regulator	5503-35C	Zinc Die Casting ASTM B86	150	165	-40

Category	System Number	Description	Body Number	Body Material	Service Pressure (Psi)	Max Temp (F)	Min Temp (F)
			5503-35D	Zinc Die Casting ASTM B86	150	165	-40
			4403-16B	Zinc Die Casting ASTM B86	150	165	-40
			4403-16C	Brass Rod UNS C36000, ASTM B16	250	165	-40
			5503-18C	Brass Rod UNS C36000, ASTM B16	250	165	-40
С	LV5503K	Regulator	5503-1DBSP	Zinc Die Casting ASTM B86	150	165	-40
			5503-1CBSP	Zinc Die Casting ASTM B86	150	165	-40
			4403-16K	Brass Rod UNS C36000, ASTM B16	250	165	-40
			5503-18K	Brass Rod UNS C36000, ASTM B16	250	165	-40
С	LV5503Y	Regulator	5503-35C	Zinc Die Casting ASTM B86	150	165	-40
			5503-35D	Zinc Die Casting ASTM B86	150	165	-40
			5503-18C	Zinc Die Casting ASTM B86	150	165	-40
С	LV404Y9	Regulator	LV4403-1	Zinc Die Casting ASTM B86	150	165	-40
			C404-2	Brass Forging Alloy, ASTM B283	250	165	-40
С	LV404B39	Regulator	3403A-1A	Zinc Die Casting ASTM B86	150	165	-40
			C404-2	Brass Forging Alloy, ASTM B283	250	165	-40
С	LV404B34	Regulator	3403A-1A	Zinc Die Casting ASTM B86	150	165	-40
			C404-1	Zinc Die Casting ASTM B86	250	165	-40
С	LV3403B	Regulator	3403A-1B	Zinc Die Casting ASTM B86	150	165	-40
С	4403W	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
			4403-16	Brass Rod UNS C36000, ASTM B16	250	165	-40
1			4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
			4403-20B	Brass Rod UNS C36000, ASTM B16	250	165	-40
С	6579	Filler Valve	LEX7579-1	Brass Rod UNS C36000, ASTM B16	250	165	-40
			L7579-2	Brass Rod UNS C36000, ASTM B16	250	165	-40
			6579-2SS	304/305 Annealed Stainless Steel	250	165	-40
С	8530	Delta Port	LEX7579-1	Brass Rod UNS C36000, ASTM B16	250	165	-40
С	7579	Filler Valve	6579-1E	Brass Rod UNS C36000, ASTM B16	250	165	-40
			7579-1E	Brass Rod UNS C36000, ASTM B16	250	165	-40
			7579-2A	Brass Rod UNS C36000, ASTM B16	250	165	-40
ART OF	-		7579-7	Brass Rod UNS C36000, ASTM B16	250	165	-40

THIS IS PART OF
CRN 0C20511\*5
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Division

Category	System Number	Description	Body Number	Body Material	Service Pressure (Psi)	Max Temp (F)	Min Temp (F)
С	A6010	ESV	A6010-1	Ductile Iron ASTM A395	400	165	-40
С	A6016	ESV	6016-1D	Ductile Iron ASTM A395	400	165	-40
С	A6024	ESV	6024-1A	Ductile Iron ASTM A395	400	165	-40
С	FA6010	ESV	FA6010-1	Ductile Iron ASTM A395	400	165	-40
			FA6010-2	Ductile Iron ASTM A395	400	165	-40
С	FA6016	ESV	FA6016-1	Ductile Iron ASTM A395	400	165	-40
			FA6016-2	Ductile Iron ASTM A395	400	165	-40
С	FA6024	ESV	FA6024-1	Ductile Iron ASTM A395	400	165	-40
			FA6024-2	Ductile Iron ASTM A395	400	165	-40
С	FVA6010	ESV	FA6010-1	Ductile Iron ASTM A395	400	165	-40
			FA6010-2	Ductile Iron ASTM A395	400	165	-40
С	FVA6016	ESV	FA6016-1	Ductile Iron ASTM A395	400	165	-40
			FA6016-2	Ductile Iron ASTM A395	400	165	-40
С	FVA6024	ESV	FA6024-1	Ductile Iron ASTM A395	400	165	-40
			FA6024-2	Ductile Iron ASTM A395	400	165	-40
С	VA6010	ESV	A6010-1	Ductile Iron ASTM A395	400	165	-40
С	VA6016	ESV	6016-1D	Ductile Iron ASTM A395	400	165	-40
С	VA6024	ESV	6024-1A	Ductile Iron ASTM A395	400	165	-40
С	AR4106A SER	Relief Valve	AR4106A-1	FC Brass Rod, UNS C36000, ASTM B16	600	165	-40
			AR4106A-20	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320
			AR4106A-3	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320
			AR4106A-2	FC Stainless Steel, UNS C30300, ASTM	600	165	-320
				A581/582/A314			
С	AR4108A SER	Relief Valve	AR4108A-1	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320
			AR4108A-20	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320
			AR4108A-3	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320
			AR4108A-2	FC Stainless Steel, UNS C30300, ASTM A581/582/A314	600	165	-320
С	BB9408T		BB9408T-1CA	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320

THIS IS PART OF CRN 1020511.5 echnical Standards & Safety Authority

echnical Standards & Safety Authority Boilers & Pressure Vessels Safety Division

Category	System Number	Description	Body Number	Body Material	Service Pressure (Psi)	Max Temp (F)	Min Temp (F)
		Globe Valve	458451-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			B9402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
С	2554A SER	Globe Valve	2554-1	Copper Alloy Castings, UNS C83600, ASTM B62/B584	600	165	-320
			2554-6A	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320
С	AR4104A SER	Relief Valve	AR4106A-1	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320
			AR4104A-20	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320
			AR4106A-3	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320
			AR4106A-2	FC Stainless Steel, UNS C30300, ASTM A581/582/A314	600	165	-320
С	BB9404T	Globe	BB9404T-1CA	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	458450-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			B8402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
С	BB9404S	Globe	BB9404-1CA	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	458450-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			B8402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
С	BB9408S	Globe	BB9408-1CA	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	458451-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			B8402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
PART C			BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320

THIS IS PART OF
CRN IC 20511-5
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Division

Category	System Number	Description	Body Number	Body Material	Service Pressure (Psi)	Max Temp (F)	Min Temp (F)
			B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
С	BB9406T	Globe	BB9406T-1	Bronze Cast Alloy, UNS C92200, ASTM B61/B584	720	165	-320
		Valve	B8402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			458451-22	304L SS Rod, U NS S30403, ASME A249	720	165	-320
			BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
С	BB9416T	Globe	BB9416T-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	222X16-22P	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			B9416-10	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9416-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
С	BB9402S	Globe	BB9404-1CB	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	458450-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			BB-9404-2F	Yellow Brass Forge, B283, UNS C37700	720	165	-320
			B-9402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			452538-12	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
С	BB9412F	Globe	BB9409F-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	458432-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			B9410-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9409-20	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9410-2	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
С	BB9406S	Globe	BB9406S-1	Bronze Cast Alloy, UNS C92200, ASTM B61/B584	720	165	-320
		Valve	B8402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			458451-22	304L SS Rod, U NS S30403, ASME A249	720	165	-320
			BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
ART O	BB9416T		BB9416T-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320

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Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Division

Category	System Number	Description	Body Number	Body Material	Service Pressure (Psi)	Max Temp (F)	Min Temp (F)
		Globe Valve	222X16-22P	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			B9416-10	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9416-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9416-6	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
C	BB9412S	Globe	BB9412-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	458432-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			B9410-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9409-20	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9410-2	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
C	BB9412T	Globe	BB9412-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	458432-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			B9410-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9409-20	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9410-2	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
С	BB9402T	Globe	BB9404T-1CB	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	458450-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			BB-9404-2F	Yellow Brass Forge, B283, UNS C37700	720	165	-320
			B9402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
С	BB9416F	Globe	BB9416F-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	222X16-22P	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			B9416-10	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9416-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9416-6	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
BT OF	AR4112A SER	Relief Valve	AR4112A-1	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320

THIS IS PART OF

CRN 10 20511.5

Fechnical Standards & Safety Authority

Boilers & Pressure Vessels

Safety Division

Category	System Number	Description	Body Number	Body Material	Service Pressure (Psi)	Max Temp (F)	Min Temp (F)
		+	AR4112A-20	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320
			AR4112A-3	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320
			AR4112A-2	FC Stainless Steel, UNS C30300, ASTM A581/582/A314	600	165	-320
			BR6108-5	Bronze Cast Alloy, UNS C92200, ASTM B61	600	165	-320
С	BB9416S	Globe	BB9416-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	222X16-22P	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			B9416-10	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9416-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9416-6	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320

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Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Division





6/19/2020

TSSA 345 Carlington Drive Toronto, ONT, M9C1A3 CA

Dear Cecylia Garbacz

## Re: Reciprocal CRN Registration in Manitoba

Your application indicates that a CRN has been received in another Canadian Jurisdiction, and therefore your CRN has been registered in Manitoba as follows:

File Number: 74-R734

CRN: 0C20511.5ADD1

Scope: .: ADD OF MFG LOCATION (CHINA) ONLY

Manufacturer: ENGINEERED CONTROLS INTERNATIONAL LLC.

Expiry Date: 9/Jul/28

Please find attached invoice for registration.

As indicated by the Regulatory Reconciliation and Cooperation Table and the Reconciliation Agreement for the Canadian Registration Number (CRN) for Pressure Equipment, a CRN issued in any Canadian Jurisdiction will be accepted for use in Manitoba.

In accordance with Steam and Pressure Plants Regulation and CSA B51, it is the manufacturer's responsibility to file a Manufacturers Data Report, including partial data reports, with our office, prior to shipping pressure equipment to Manitoba.

Please contact me directly via email at <a href="mailto:Cheryl.Lashek@gov.mb.ca">Cheryl.Lashek@gov.mb.ca</a> for any questions or concerns.

Cheryl Lashek, P.Eng Director, ITSM

Inspection and Technical Services
Office of the Fire Commissioner
508 - 401 York Avenue, Winnipeg Manitoba R3C 0P8 **T** (204) 945-3507 | **F** (204) 948-2309



Montréal, le 31 août 2020.

MRS. TANYA FRANCIS
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ONTARIO
CANADA M9W 6N9

Manufacturer: ENGINEERED CONTROLS INTERNATIONAL INC.

100 REGO DRIVE

**ELON NORTH CAROLINA** 

U.S.A. 27244

OUR REFERENCE: 951051

Design number: ORIGINAL SCOPE OF REGISTRATION &

LIST OF MANUFACTURING LOCATIONS

#### 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): **0C20511.56.** 

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 equipment 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



Montréal, 31 août 2020.

MADAME TANYA FRANCIS
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ONTARIO
CANADA M9W 6N9

Fabricant: ENGINEERED CONTROLS INTERNATIONAL INC.

100 REGO DRIVE ELON NORTH CAROLINA

U.S.A. 27244

Numéro de dossier : 951051

Numéro(s) de dessin(s): ORIGINAL SCOPE OF REGISTRATION &

LIST OF MANUFACTURING LOCATIONS

#### 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 : 0C20511.56.

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.

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

Montréal

545, boul. Crémazie Est, 7ième étage Montréal (Québec) H2M 2V2 Téléphone : 514 873-6459 Sans frais : 1 866 262-2084

www.rbq.gouv.qc.ca



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



# STATUTORY DECLARATION **Registration of Fittings** Zachary Rubeor, Design Engineer (Name and Position, e.g. President, Plant Manager, Chief Engineer) of Engineered Controls International LLC (Name of Manufacturer) Located at See List of Manufacturing Locations 1-336-446-7219 (Plant Address) (Telephone No.) (Fax No.) ✓ do solemnly declare that the fittings listed hereunder, which are subject to the *Technical Standards and Safety Act*, Boilers and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.1 (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 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 ISO90001 which has been verified by the following authority, UNDERWRITERS LABORATORY INC The items covered by this declaration, for which I seek registration, are category type fittings. In support of this application, the following information and/or test data are attached as follows: SEE ATTACHED LIST (drawings, calculations, test reports, etc.) Declared before me at \_\_\_\_\_ in the \_\_\_\_\_ of \_\_ \_\_\_\_\_AD 20\_\_\_\_ Commissioner for Oaths: (Printed name) (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:

## Registered Manufacturing Locations for CRN 0C20511.5

All CRNs should be assigned to **Engineered Controls International LLC**, but some subsidiary companies may be listed on the attached quality certificates. For simplicity, the subsidiary's name is also listed in this document in association with its manufacturing location.

- 1. Engineered Controls International LLC (ECII) 100 Rego Drive, Elon, NC 27244, USA
- 2. Shanghai Rego Flow Technology Co., Ltd. (ECII China) 6999 Chuansha Rd., B11, Chuansha Industry Park Shanghai, China





Category	System Number	Description	Body Number	Body Material	Pressure (Psi)	Temp (F)	Temp (F)
ر	7703.67	Pogulator	4403-11	Zinc Die Casting ASTM B86	250	165	-40
ر	4403-34	negulatui	4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
C	C7CCDA	المادانية م	4403-11	Zinc Die Casting ASTM B86	250	165	-40
ر	3733B4	regulator	4403-34)	Zinc Die Casting ASTM B86	250	165	-40
U	575484	Regulator	4403-11	Zinc Die Casting ASTM B86	250	165	-40
			4403-34J	Zinc Die Casting ASTM B86	250	165	-40
O	5720B34	Regulator	3403A-4B	Zinc Die Casting ASTM B86	250	165	-40
O	LV4403N4	Regulator	4403-34J	Zinc Die Casting ASTM B86	150	165	-40
			4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
U	LV404B SER	Regulator	3403A-1	Zinc Die Casting ASTM B86	150	165	-40
			C404-1	Zinc Die Casting ASTM B86	250	165	-40
			C404-2	Brass Forging Alloy, ASTM B283	250	165	-40
U	LV404B34	Regulator	3403A-1	Zinc Die Casting ASTM B86	150	165	-40
			C404-1	Zinc Die Casting ASTM B86	250	165	-40
O	LV3403K	Regulator	3403-1BSP	Zinc Die Casting ASTM B86	150	165	-40
U	LV3403TR	Regulator	3403-1BSP	Zinc Die Casting ASTM B86	150	165	-40
O	LV3403TRH	Regulator	3403-1BSP	Zinc Die Casting ASTM B86	150	165	-40
O	LV3403TRL	Regulator	3403-1BSP	Zinc Die Casting ASTM B86	150	165	-40
O	LV3403UR	Regulator	3403-1	Zinc Die Casting ASTM B86	150	165	-40
U	LV3403VR	Regulator	3403-1	Zinc Die Casting ASTM B86	150	165	-40
U	LV4289-10	Regulator	3403A-1C	Zinc Die Casting ASTM B86	150	165	-40
O	LV3403VR	Regulator	3403-1	Zinc Die Casting ASTM B86	150	165	-40
	LV4403B SER	Regulator	4403-1)	Zinc Die Casting ASTM B86	150	165	-40
IS PART	TO.		4403-34)	Zinc Die Casting ASTM B86	150	165	-40
00 20511°	₩		4403-20A	Brass Rod UNS C36000, ASTM B16	250	165	-40
Technical Standards & Salety Authority	Authority		4403-20B	Brass Rod UNS C36000, ASTM B16	250	165	-40
Boilers & Pressure Vessels	essels		4403-20C	Brass Rod UNS C36000, ASTM B16	250	165	-40
Safety Division			4403-12A	Brass Rod UNS C36000, ASTM B16	250	165	-40
U	LV440366L SER	Regulator	4403-34)	Zinc Die Casting ASTM B86	150	165	-40
			4403-20C	Brass Rod UNS C36000, ASTM B16	250	165	-40

Category		Description	Body Number	Body Material	Pressure (Psi)	Temp (F)	Temp (F)
U	LV4403B4HDLP	Regulator	4403-11	Zinc Die Casting ASTM B86	150	165	-40
			4403-20B	Brass Rod UNS C36000, ASTM B16	250	165	-40
U	LV4403BR	Regulator	4403-R	Zinc Die Casting ASTM B86	150	165	-40
			4403-20B	Brass Rod UNS C36000, ASTM B16	250	165	-40
			4403-20C	Brass Rod UNS C36000, ASTM B16	250	165	-40
U	LV4403B66RA	Regulator	4403-1MP	Zinc Die Casting ASTM B86	150	165	-40
			4403-32C	Brass Rod UNS C36000, ASTM B16	250	165	-40
U	LV4403K	Regulator	4403-34KP	Zinc Die Casting ASTM B86	150	165	-40
			4403-12K	Brass Rod UNS C36000, ASTM B16	250	165	-40
U	LV4403H	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
THIS IS PART	T 0 F		4403-34JP	Zinc Die Casting ASTM B86	150	165	-40
CRN 11, 20511.4	1.4		4403-12A	Brass Rod UNS C36000, ASTM B16	250	165	-40
Technical Standards & Safety Authority	shy Authority		4403-20B	Brass Rod UNS C36000, ASTM B16	250	165	-40
Boilers & Pr <del>essure Ves</del>	Vessels		4403-20C	Brass Rod UNS C36000, ASTM B16	250	165	-40
Safety Division	on LV4403C2H42	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
			4403-20A	Brass Rod UNS C36000, ASTM B16	250	165	-40
U	LV4403C	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
			4403-34JP	Zinc Die Casting ASTM B86	150	165	-40
			4403-20	Brass Rod UNS C36000, ASTM B16	250	165	-40
			4403-20A	Brass Rod UNS C36000, ASTM B16	250	165	-40
			4403-20B	Brass Rod UNS C36000, ASTM B16	250	165	-40
υ —	LV4403M2	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
			4403-12A	Brass Rod UNS C36000, ASTM B16	250	165	-40
U	LV4403SR	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
			4403-34JP	Zinc Die Casting ASTM B86	150	165	-40
			4403-16	Zinc Die Casting ASTM B86	150	165	-40
			4403-16A	Brass Rod UNS C36000, ASTM B16	250	165	-40
			4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
<b>υ</b>	LV4403T	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
			4403-34JP	Zinc Die Casting ASTM B86	150	165	-40

		System				Service	Max	Min
Cate	Category	Number	Description	Body Number	Body Material	Pressure (Psi)	Temp (F)	Temp (F)
				4403-16	Zinc Die Casting ASTM B86	150	165	-40
				4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
				4403-16C	Brass Rod UNS C36000, ASTM B16	250	165	-40
	U	LV4403V	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
				4403-34JP	Zinc Die Casting ASTM B86	150	165	-40
				4403-16	Zinc Die Casting ASTM B86	150	165	-40
				4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
				4403-16C	Brass Rod UNS C36000, ASTM B16	250	165	-40
_	U	LV4403V	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
	,			4403-34JP	Zinc Die Casting ASTM B86	150	165	-40
		Γ		4403-16	Zinc Die Casting ASTM B86	150	165	-40
THIS IS PART	TO P			4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
CRN 00 20491.4	11.4	LV4403Y	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
Fechnical Standards & Safety Authority	rety Authori	2	190	4403-34JP	Zinc Die Casting ASTM B86	150	165	-40
Boilers & Pressure Vessels	e Vessel	, v		4403-16B	Zinc Die Casting ASTM B86	150	165	-40
Safety Division	ion			4403-16C	Brass Rod UNS C36000, ASTM B16	250	165	-40
	U	_LV4403YR	Regulator	4403-R	Zinc Die Casting ASTM B86	150	165	-40
				4403-16B	Zinc Die Casting ASTM B86	150	165	-40
				4403-16C	Brass Rod UNS C36000, ASTM B16	250	165	-40
_	U	LV5503C	Regulator	5503-1C	Zinc Die Casting ASTM B86	150	165	-40
				4403-12	Zinc Die Casting ASTM B86	150	165	-40
				4403-12B	Brass Rod UNS C36000, ASTM B16	250	165	-40
_	U	LV5503G4	Regulator	5503-35C	Zinc Die Casting ASTM B86	150	165	-40
				4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
	U	LV5503B	Regulator	5503-35C	Zinc Die Casting ASTM B86	150	165	-40
-				5503-35D	Zinc Die Casting ASTM B86	150	165	-40
				4403-16B	Zinc Die Casting ASTM B86	150	165	-40
				4403-16C	Brass Rod UNS C36000, ASTM B16	250	165	-40
				5503-18C	Brass Rod UNS C36000, ASTM B16	250	165	-40
	U	LV5503H	Regulator	5503-35C	Zinc Die Casting ASTM B86	150	165	-40

Category	System	Description	Body Number	Body Material	Service	Max	Tem T
,	Number				(Psi)	(F)	E
			5503-35D	Zinc Die Casting ASTM B86	150	165	-40
			4403-16B	Zinc Die Casting ASTM B86	150	165	-40
			4403-16C	Brass Rod UNS C36000, ASTM B16	250	165	-40
			5503-18C	Brass Rod UNS C36000, ASTM B16	250	165	-40
O	LV5503K	Regulator	5503-1DBSP	Zinc Die Casting ASTM B86	150	165	-40
			5503-1CBSP	Zinc Die Casting ASTM B86	150	165	-40
			4403-16K	Brass Rod UNS C36000, ASTM B16	250	165	-40
			5503-18K	Brass Rod UNS C36000, ASTM B16	250	165	-40
O	LV5503Y	Regulator	5503-35C	Zinc Die Casting ASTM B86	150	165	-40
			5503-35D	Zinc Die Casting ASTM B86	150	165	-40
			5503-18C	Zinc Die Casting ASTM B86	150	165	-40
U	LV404Y9	Regulator	LV4403-1	Zinc Die Casting ASTM B86	150	165	-40
			C404-2	Brass Forging Alloy, ASTM B283	250	165	-40
O	LV404B39	Regulator	3403A-1A	Zinc Die Casting ASTM B86	150	165	-40
			C404-2	Brass Forging Alloy, ASTM B283	250	165	-40
U	LV404B34	Regulator	3403A-1A	Zinc Die Casting ASTM B86	150	165	-40
			C404-1	Zinc Die Casting ASTM B86	250	165	-40
U	LV3403B	Regulator	3403A-1B	Zinc Die Casting ASTM B86	150	165	-40
U	4403W	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
			4403-16	Brass Rod UNS C36000, ASTM B16	250	165	-40
			4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
			4403-20B	Brass Rod UNS C36000, ASTM B16	250	165	-40
U	6229	Filler Valve	LEX7579-1	Brass Rod UNS C36000, ASTM B16	250	165	-40
			L7579-2	Brass Rod UNS C36000, ASTM B16	250	165	-40
			6579-2SS	304/305 Annealed Stainless Steel	250	165	-40
U	8530	Delta Port	LEX7579-1	Brass Rod UNS C36000, ASTM B16	250	165	-40
U	7579	Filler Valve	6579-1E	Brass Rod UNS C36000, ASTM B16	250	165	-40
			7579-1E	Brass Rod UNS C36000, ASTM B16	250	165	-40
The statement of the st			7579-2A	Brass Rod UNS C36000, ASTM B16	250	165	-40
TO FOY	11		7-6757	Brass Rod UNS C36000, ASTM B16	250	165	-40

THIS IS PART OF
CRN ()C 2051/°/5
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Division

Body Material	Body Number	Riving 1
Ductile Iron ASTM A395	A6010-1	
Ductile Iron ASTM A395	6016-1D	
Ductile Iron ASTM A395	6024-1A	
Ductile Iron ASTM A395	FA6010-1	
Ductile Iron ASTM A395	FA6010-2	
Ductile Iron ASTM A395	FA6016-1	
Ductile Iron ASTM A395	FA6016-2	
Ductile Iron ASTM A395	FA6024-1	
Ductile Iron ASTM A395	FA6024-2	
Ductile Iron ASTM A395	FA6010-1	
Ductile Iron ASTM A395	FA6010-2	
Ductile Iron ASTM A395	FA6016-1	
Ductile Iron ASTM A395	FA6016-2	
Ductile Iron ASTM A395	-A6024-1	_
Ductile Iron ASTM A395	-A6024-2	ш.
Ductile Iron ASTM A395	A6010-1	~
Ductile Iron ASTM A395	6016-1D	_
Ductile Iron ASTM A395	6024-1A	
FC Brass Rod, UNS C36000, ASTM B16	AR4106A-1	
FC Brass Rod, UNS C36000, ASTM B16	AR4106A-20	
FC Brass Rod, UNS C36000, ASTM B16	AR4106A-3	
FC Stainless Steel, UNS C30300, ASTM	AR4106A-2	
A581/582/A314		
FC Brass Rod, UNS C36000, ASTM B16	AR4108A-1	
FC Brass Rod, UNS C36000, ASTM B16	AR4108A-20	
FC Brass Rod, UNS C36000, ASTM B16	AR4108A-3	4
FC Stainless Steel, UNS C30300, ASTM	AR4108A-2	4
A381/382/A314	+	
Bronze Cast Alloy, UNS C92200, ASTM B61/584		BB9408T-1CA

THIS IS PART OF SRN (C 2051) Security Standards & Safety Authority Soilers & Pressure Vessels Safety Division

Category	System Number	Description	Body Number	Body Material	Service Pressure (Psi)	Max Temp (F)	Min Temp (F)
		Globe Valve	458451-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			B9402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
O	2554A SER	Globe	2554-1	Copper Alloy Castings, UNS C83600, ASTM	009	165	-320
		Valve		B62/B584			
			2554-6A	FC Brass Rod, UNS C36000, ASTM B16	009	165	-320
U	<b>AR4104A SER</b>	Relief Valve	AR4106A-1	FC Brass Rod, UNS C36000, ASTM B16	009	165	-320
			AR4104A-20	FC Brass Rod, UNS C36000, ASTM B16	009	165	-320
			AR4106A-3	FC Brass Rod, UNS C36000, ASTM B16	009	165	-320
			AR4106A-2	FC Stainless Steel, UNS C30300, ASTM	009	165	-320
				A581/582/A314			
O	BB9404T	Globe	BB9404T-1CA	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	458450-22	304L Stainless Steel, UNS C30403, ASTM	720	165	-320
				A249/A269			
			B8402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
O	BB9404S	Globe	BB9404-1CA	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	458450-22	304L Stainless Steel, UNS C30403, ASTM	720	165	-320
				A249/A269			
			B8402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
U	BB9408S	Globe	BB9408-1CA	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	458451-22	304L Stainless Steel, UNS C30403, ASTM	720	165	-320
				A249/A269			
			B8402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320

THIS IS PART OF CRN ()C 20511°5
Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Division

	System System Number	em	Description	Body Number	Body Material	Service Pressure (Psi)	Max Temp (F)	Min Temp (F)
BB9406T Globe   BB9406T-1   Valve   B8402-11     Valve   B8402-11     BB9416T Globe   BB9416T-1C     Valve   222X16-22P     BB9402S Globe   BB9404-1CB     BB9402-12   B9402-11     BB9402-11     BB9402-11     BB9409F-1C     Valve   458432-22     BB9406S Globe   BB9406S-1     BB9406S-1   Valve   B8400-10     BB9406S-1   Valve   B8402-11     BB9406S-1   Valve   B8402-11     BB9408-2   BB9405-8     BB9405-8   BB9405-8     BB9405-8   BB9405-8     BB9405-8   BB9405-8     BB9405-8   BB9405-8     BB9405-8   BB9405-8     BB9405-8   BB9405-1     BB9405-8   BB9405-8				B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
Valve         B8402-11           458451-22         B89408-2           B89408-2         B9400-8           B89416T-1C         B9402-8           Valve         222X16-22P           B89416T-1C         B89416T-1C           Valve         222X16-22P           B89402-8         B89402-8           B89404-1CB         B89404-1CB           Valve         452538-12           B89409-1C         Valve           B89409-1C         A52538-12           B89409-1C         Valve           B89409-1C         B89409-1           B89409-1         B89409-1           B894065-1         B894065-1           B894065-1         B894065-1           B894065-1         B894065-1           B894065-1         B894065-1           B894065-1         B894065-1           B89406-8         B89406-8           B89406-8         B89406-8           B89406-8         B89406-8           B89406-8         B89406-8           B89406-8         B89406-8		.06T	Globe	BB9406T-1	Bronze Cast Alloy, UNS C92200, ASTM B61/B584	720	165	-320
## A S # A S			Valve	B8402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
BB9416T Globe BB94167-1C Valve 222X16-22P BB9402-8 BB9402-8 BB9416-1 BB9416-2 BB9402-8 BB9402-8 BB9402-11 A52538-12 BB9405-1C Valve BB9409-20 BB94065-1 BB94065-1 BB94065-1 A58451-22 BB94065-1 Valve BB94065-1 A58451-22 BB94065-1 A58451-22 BB9406-2 BB94065-1 A58451-22 BB9406-2 BB9406				458451-22	304L SS Rod, U NS S30403, ASME A249	720	165	-320
BB9416T Globe BB9416T-1C Valve C22X16-22P				BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
BB9416T Globe   BB9416T-1C     Valve   222X16-22P     BB9402-8   BB9402-8     BB9402-8   BB9402-8     BB9402-8   BB9402-1     BB9412F Globe   BB9409F-1C     Valve   BB9409-20     BB9406S Globe   BB9409-20     BB9406S-1   BB9406S-1     Valve   BB9408-2     BB9406S   BB9408-2     BB9408-2   BB9408-2     BB9416T-1C     BB9408-2   BB9408-2     BB9416T-1C     BB9416T				B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
Valve         222X16-22P           BB9416-10         BB9416-2           BB9402-8         B9402-8           BB9402-8         B9402-8           BB9402-1CB         BB9404-1CB           Valve         458450-22           BB9402-11         452538-12           Valve         458432-22           BB9406-1C         BB9409-10           BB9406-1         BB9409-20           BB9406-1         BB9409-20           BB9406-1         BB9406-1           BB9406-1         BB9409-20           BB9406-1         BB9408-1           BB9408-2         BB9408-2           BB9408-2         BB9408-2           BB9408-1         BB9408-2           BB9408-1         BB9408-2           BB9408-1         BB9408-2           BB9408-1         BB9408-2           BB9408-1         BB9408-1		16T	Globe	BB9416T-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
BB9416-10 BB9416-2 B9402-8 BB9402-8 BB9402-8 BB9404-1CB BB-9404-1CB BB-9404-2F B-9402-11 BB9402-11 A52538-12 BB9412F Globe BB9409F-1C Valve BB9409-20 BB9406S-1 BB9406S-1 Valve BB9406S-1 BB9406S-1 BB9406S-1 BB9408-2 BB9408-2 BB9405-1C			Valve	222X16-22P	304L Stainless Steel, UNS C30403, ASTM	720	165	-320
BB9416-2 BB9402-8 BB9402-8 BB9402-8 BB9402-1CB Valve BB-9404-1CB BB-9404-2F B-9402-11 A52538-12 BB9412F Globe BB9409F-1C Valve A58432-22 BB9406-1 BB9406-1 BB9406-1 BB9406-1 BB9406-1 BB9406-1 BB9406-1 BB9406-1 BB9406-1 BB9408-2 BB9408-2 BB9408-2 BB9408-2 BB9408-2					A249/A269			
BB9402-8 BB9402-8 BB9402-8 BB9402-8 BB9402-12 Valve 458450-22 BB9404-2F B-9402-11 452538-12 BB9412F Globe BB9409F-1C Valve 458432-22 BB9406S Globe BB94065-1 BB9406S-1 BB9406S-1 BB9406S-1 BB9406S-1 BB9406S-1 BB9408-2 BB9408-2 BB9405-1C				B9416-10	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
BB9402S         Globe         BB9404-1CB           Valve         458450-22           BB-9404-2F         BB-9404-2F           BB9404-2F         BB-9404-2F           BB9402-11         452538-12           Valve         458432-22           BB9409F-1C         BB9409F-1C           Valve         458432-22           BB9406-20         BB9406-20           BB9406-21         BB9406-21           Valve         BB9406-11           Valve         BB9408-1           BB9408-2         BB9408-2           BB9408-2         BB9408-2           BB9408-2         BB9408-2           BB9408-2         BB9408-2           BB9408-2         BB9408-2				BB9416-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
BB94025 Globe   BB9404-1CB				B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
BB9412F Globe BB9409F-1C Valve Globe BB9409F-1C Valve 458432-22 BB9406S Globe BB9406S-1 BB9406S-1 BB9406S-1 Valve BB9406S-1 BB9406S-1 A58451-22 BB9406S-1 BB9408-2 BB9406S-1 BB9408-2 BB9406S-1 BB9408-2 BB9406S-1 BB9408-2 BB9405-1C BB9408-2 BB9405-1C BB9405-		025	Globe	BB9404-1CB	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
BB9412F Globe BB9409F-1C Valve 458432-22 BB9406S-1 BB9406S-1 BB9409F-1C Valve BB9409-20 BB9406S-1 Valve BB9406S-1 Valve BB9406S-1 Valve BB9408-2			Valve	458450-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
BB9412F Globe BB9409F-1C Valve 458432-22 BB9406S Globe BB9406S-1 BB9406S-1 BB9406S-1 Valve BB9406S-1 Valve BB9406S-1 BB9406S-1 BB9406S-1 BB9406S-1 BB9408-2 BB9405-8 BB9405-1 BB9405-8				BB-9404-2F	Yellow Brass Forge, B283, UNS C37700	720	165	-320
BB9412F Globe BB9409F-1C Valve 458432-22 B9410-11 BB9409-20 BB9406S Globe BB9406S-1 Valve B8402-11 Valve B8402-11 BB9408-2 BB9416T BB9416T			,	B-9402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
BB9412F Globe BB9409F-1C Valve 458432-22 B9410-11 BB9409-20 B9410-2 BB9406S-1 Valve BB9406S-1 Valve BB9408-2 BB9408-2 BB9408-2 BB9408-2 BB9408-2				452538-12	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
BB9406S Globe BB9406-11 BB9406S Globe BB94065-1 Valve B8402-11 Valve B8402-11 BB9408-2 BB9408-2 BB9408-2 BB9408-2		12F	Globe	BB9409F-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
BB9410-11 BB9409-20 BB9406-20 BB9410-2 BB9406-21 BB9406-21 BB9406-1 BB9406-1 BB9408-2 BB9408-2 BB9408-2 BB9408-2 BB9408-2			Valve	458432-22	304L Stainless Steel, UNS C30403, ASTM	720	165	-320
BB9416-11 BB9409-20 BB9409-20 BB9410-2 BB9410-2 BB9410-2 BB9406S-1 A58451-22 BB9408-2 BB9408-2 BB9408-2 BB9408-2			1		A249/A269			
BB94065 Globe BB94065-1 B8402-11 A58451-22 BB9408-2 B89405-8 B89405-8 B89405-8				B9410-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
BB9406S Globe BB9406S-1 Valve B8402-11 458451-22 BB9408-2 BB9416T BB9416T-1C				BB9409-20	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
BB9406S Globe BB9406S-1 Valve B8402-11 458451-22 BB9408-2 BB9408-2 BB9405-8				B9410-2	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
Valve B8402-11 458451-22 BB9408-2 B9402-8 BR9416T-1C		S90	Globe	BB9406S-1	Bronze Cast Alloy, UNS C92200, ASTM B61/B584	720	165	-320
458451-22 BB9408-2 B9402-8 BR9416T-1C			Valve	B8402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
BB9408-2 B9402-8 BR9416T-1C				458451-22	304L SS Rod, U NS S30403, ASME A249	720	165	-320
B9402-8 RB9416T-1C			•	BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
BB9416T-1C				B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
OT-10T+COO	C BB941	16T		BB9416T-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320

THIS IS PART OF CRN ()(20\$11.5 F

Category	System Number	Description	Body Number	Body Material	Service Pressure (Psi)	Max Temp (F)	Temp (F)
		Globe Valve	222X16-22P	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			B9416-10	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9416-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9416-6	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
O	<b>BB9412S</b>	Globe	BB9412-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	458432-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			B9410-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9409-20	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9410-2	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
U	BB9412T	Globe	BB9412-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	458432-22	304L Stainless Steel, UNS C30403, ASTM	720	165	-320
				A249/A269			
			B9410-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9409-20	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9410-2	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
U	BB9402T	Globe	BB9404T-1CB	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	458450-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			BB-9404-2F	Yellow Brass Forge, B283, UNS C37700	720	165	-320
			B9402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
U	BB9416F	Globe	BB9416F-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	222X16-22P	304L Stainless Steel, UNS C30403, ASTM	720	165	-320
				A249/A269			
			B9416-10	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9416-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
200			B9416-6	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
	<b>AR4112A SER</b>	Relief Valve	AR4112A-1	FC Brass Rod. UNS C36000. ASTM B16	600	165	-320

THIS IS PART OF CAN IC 26511.5
Fechnical Standards & Safety Authority Boilers & Pressure Vessels Safety Division

Category	System	Description	Description Body Number	Body Material	Service Pressure	Мах Тетр	Min Temp
					(Psi)	(F)	(F)
		-	AR4112A-20	FC Brass Rod, UNS C36000, ASTM B16	009	165	-320
			AR4112A-3	FC Brass Rod, UNS C36000, ASTM B16	009	165	-320
			C AC1110A	FC Stainless Steel, UNS C30300, ASTM	009	165	-320
			AN4112A-2	A581/582/A314			
			BR6108-5	Bronze Cast Alloy, UNS C92200, ASTM B61	009	165	-320
U	<b>BB9416S</b>	Globe	BB9416-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	222X16-22P	304L Stainless Steel, UNS C30403, ASTM	720	165	-320
				A249/A269			
			B9416-10	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9416-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9416-6	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320



Régie du bâtiment
QUÉDEC \* \* \*

Tangan de Conciliation

THIS IS PART OF CRN (CRN (CRN (CRN (CRN (CRN (CRN)))))
Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Division

New Brunswick Nova Scotia Prince Edward Island Newfoundland and Labrador Nunavut Yukon Northwest Territories Manufacturers Name: Engineered Controls International LLC Manufacturers Address: 100 Rego Drive, Elon, NC 27244, USA Plant Locations: See List of Manufacturing Locations Category of Fittings to be registered. Circle one Category only Title of the Standard of A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers Construction B Flanges: all flanges C Valves: all line valves **ASME B31.1** 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 bollers, 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 CNSC or ASME requirements) Show Manufacturers Name, Trademark, or Logo as it will appear on the product Type of Construction Forged Welded a Wrought a Cast # Other o Describe other: List of supporting documentation and identification of the actual items to be registered: See attached documents Declaration: Zachary Rubeor (see note 3) employed by ECII 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 ULInc. 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: Zach Rubeor Declared before me at\_ day of Use this space for the Official Seal 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 AGC FACT There. CRN: 0C20511.5 Add1 PROVINCE OF PRINCE EDWARD ISLAND COMMUNITIES, LAND & ENVIRONMENT FID#: 1704 Notes: All Fittings shall be registered in the name of the Manufacturer. DATE: 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

Addition of plant location in Shanghai, China.

Quality Control programs shall be resubmitted for validation.

CRN expires July 9, 2028 - DG

responsibility for the quality of the end product.

BOILER/PRESSURE VESSEL BRANCH

Sect 1.0 - Fittings Rev.2

INSPECTION SERVICES SECTION

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: Engineered Controls International LLC Manufacturers Address; 100 Rego Drive, Elon, NC 27244, USA Plant Locations: See List of Manufacturing Locations Category of Fittings to be registered. Circle one Category only Title of the Standard of A Pipe fittings, including couplings, tees, albows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges Construction C Valves: all line valves **ASME B31.1** 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 CNSC or ASME requirements) Show Manufacturers Name, Trademark, or Logo as it will appear on the product Type of Construction Weided o Wrought o Forged Cast E Other o Describe other: List of supporting documentation and identification of the actual items to be registered: See attached documents Declaration: Zachary Ruboor (see note 3) employed by ECII 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 uninc. 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: Zach Rubeor Declared before me at\_ \_\_ day of \_ AD Use this space for the Official Seal 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: 0C20511.5 Add1 FID#: 1704 Notes: All Fittings shall be registered in the name of the Manufacturer. 2. Each Category shall be supported with two Statutory Declaration forms CRN. OC 20511.58ADDI and one copy of supporting documentation.

Sect 10 - Fittings Rev.2

REGULATIO

3. 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,

Addition of plant location in Shanghai, China.

11/2016

CRN expires July 9, 2028 - DG

New Brunswick Nunavut Nova Scotia Yukon

Prince Edward Island Northwest Territories Newfoundland and Labrador

Manufacturers Name: Engineered Controls International LLC	
Manufacturers Address: 100 Rego Drive, Elon, NC 27244, USA	
Plant Locations; See List of Manufacturing Locations	
Category of Fittings to be registered. Circle one Category on	ly True Co.
A Fire intings, including couplings tees elhows Vs pluge unions pipe cape as and a	<u>Title of the Standard of</u> Construction
B Flanges: all flanges C Valves: all line valves	<u> </u>
D Expansion joints, flexible connections, and hose assemblies; all types	ASME B31.1
E Strainers, filters, separators, and steam traps	
F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or transmitters	r pressure
G Certified capacity-rated pressure relief devices acceptable as primary over pressure re-	protection on
bollers, pressure vessels, piping and fusible billing	3.5.5.5.1.5.1
H Pressure retaining components that do not fall into one of the above categories	
N Nuclear components: Class 1 □ Class 2 □ Class 3 □ , (Meeting CNSC or ASME	requirements)
Show Manufacturers Name, Trademark, or Logo as it will appear on the	
DECO	Forged  Welded  Wrought  Cast Other
	Describe other:
List of supporting documentation and identification of the actual items to	
	b be registered:
See attached documents	
	-
Declaration:	
Zachary Rubeor(see note 3) employed by ECII	and being the person having full authority
my knowledge represents the product for which registration is sought. The dimeratings, and identification markings are in accordance with the herein named statistings is regulated by a Quality Control Program which extends to see the least the control of the co	
3 3 3	here fabrication occurs in whole or in part and has been
observing it to be true, and knowing that it is of the same force and effect as if ma	ade under oath.
Signature of Declarer: Zach Rubeor Digitally signed by Zach Rubeor Date: 2020.04.16 14:09:24 -04'00'	
Declared before me at	Ä
This day of AD	Use this start New 2 Nouveau
Commissioner of Oaths	DIUISWICK
Or Notary Public: (sign)	DEPT OF JUSTICE PUBLIC SAFETY
	BOILER & PRESSURE VESSEL ACT
(Affix Official seal to the right)	DECICEDATION ONLY
This space for Regulatory Authori This registration must be revalidated after ten (10) years	y use. REGISTRATION ONLY
CRN: 0C20511.5 Add1	from the date of acceptance. OCQ0511, 57 Add
	0
FID#: 1704	Ky Cran
Notes:	CHIEF BOILER INSPECTOR
<ol> <li>All Fittings shall be registered in the name of the Manufacturer.</li> </ol>	, , , , ,
Each Category shall be supported with two Statutory Declaration forms  and one converted and appropriate decreases the statutory declaration forms.	DATE 6/19/20
<ul><li>and one copy of supporting documentation.</li><li>The Declaration shall be made by the person having full authority and</li></ul>	
responsibility for the quality of the end product.	
<ol> <li>Quality Control programs shall be resubmitted for validation.</li> </ol>	□BLRs □PVe
Addition of plant location in Shanghai, China	FITTINGS UNUCSEAR COMPONENTS
11/2016	I I I I I I I I I I I I I I I I I I I
CRN expires July 9, 2028 - DG	MALLINGO MOCESTIO

New Brunswick Nunavut

Nova Scotia Yukon Prince Edward Island Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Engineered Controls International LLC	
Manufacturers Address: 100 Rego Drive, Elon, NC 27244, USA	
Plant Locations: See List of Manufacturing Locations	
Category of Fittings to be registered. Chale and Oct.	A
A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers  B Flanges: all flanges	Title of the Standard of Construction
C Valves: all line valves	
D Expansion joints, flexible connections, and hose assemblies: all types	ASME B31.1
E Strainers, filters, separators, and steam traps  F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters	The state of the s
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 CNSC or ASME requirements)	
Show Manufacturers Name, Trademark, or Logo as it will appear on the product	
Take or Logo do it will appeal off the product	Type of Construction Forged Welded Wrought
	Cast M Other p
	Describe other:
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See attached documents	M.
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eclaration:  Zachany Rubcor (see note 3) employed by ECII and responsibility for the quality of the end product do solemnly declare that the information co	d being the person having full authority
Zachary Rubecor (see note 3) employed by ECII and responsibility for the quality of the end product do solemnly declare that the information of the yknowledge represents the product for which registration is sought. The dimensions, materials, and identification markings are in accordance with the bought.	ntained in this form is true to the best of als of construction, pressure temperature
Accepting Rubber (see note 3) employed by ECII and responsibility for the quality of the end product do solemnly declare that the information of the solemnian solemnian country knowledge represents the product for which registration is sought. The dimensions, materials, and identification markings are in accordance with the sought.	ntained in this form is true to the best of als of construction, pressure temperature
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Addition of page 18 to be true, and knowing that it is of the same force and effect as if made under oath is a day of Agn Public: (sign)  (Affix Official seal to the right)  (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 RN:  OC20511.5 Add1  The Declaration shall be reade by the person having full authority and responsibility for the quality of the end product.  Addition of page 18 certain in Schember 2016.	ntained in this form is true to the best of als of construction, pressure temperature als of construction, pressure temperature of these are declare that the manufacture of these in occurs in whole or in part and has been a solemn declaration conscientiously acceptance for the Official Seal Service NL Registered OC 2051/50/100/ Registered OC 2051/50/100/ Registered Doctor Services Registered by

New Brunswick Nunavut Nova Scotia Yukon Prince Edward Island Northwest Territories

Newfoundland and Labrador

Manufactures N	
Manufacturers Name; Engineered Controls International LLC	
Manufacturers Address: 100 Rego Drive, Elon, NC 27244, USA	
Plant Locations; See List of Manufacturing 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	Title of the Standard of Construction  ASME B31.1
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 CNSC or ASME requirements)	
Show Manufacturers Name, Trademark, or Logo as it will appear on the product	Type of Construction
REGO®  List of supporting documentation and identification of the actual items to be registere	Forged Welded Wrought Describe other:
See attached documents	<u>a:</u>
ny knowledge represents the product for which registration is sought. The dimensions, mater atings, and identification markings are in accordance with the herein named standards. I furth ittings is regulated by a Quality Control Program which extends to each plant where fabrication as being suitable for that purpose and I make this believing it to be true, and knowing that it is of the same force and effect as if made under oath signature of Declarer:  Zach Rubeor  Digitally signed by Zach Rubeor	ials of construction, pressure temperature ner declare that the manufacture of these n occurs in whole or in part and has been
Commissioner of Oaths	Too for the Official Seal
Pr Notary Public: (sign)	
(Affix Official seal to the right)	
This space for Regulatory Authority use.	
CRN: 0C20511.5 Add1  FID#: 1704  This registration must be revalidated after ten (10) years from the date of	acceptance O
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.  Addition of plant location in Shanghai China	ATE 06/25/2020  Sect 1.0 · Fighings Rev
CRN expires July 9, 2028 - DG	ON SONOT

UNIFORI	M STATUTORY DECLAR	ATION FORM FOR THE REG	ISTRATION OF FITTING DESIGNS
New Brunswick Nunavut	Nova Scotia Yukon	Prince Edward Island Northwest Territories	Newfoundland and Labrador
Manufacturers Nar	110; Engineered Controls International		
Manufacturers Add	FOSS: 100 Rego Drive, Elon, NC 2724	LIC	
Plant Locations: Sec	List of Manufacturing Locations	Annual Control of the	
Categor	v of Eittings to be an inter	i. Circle one Category only	
B Flanges: all flanges C Valves: all line valve	a coopiings, tees, eloows, Ys, plt	igs, unions, pipe caps, or reducers	Title of the Standard of Construction
D Expansion joints, flex E Strainers, filters, sep F Measuring devices, in transmitters	dble connections, and hose esset arators, and steam traps ncluding pressure gauges, level g	auges, sight glasses, levels, or press	ASME B31.1
H Pressure retaining co	emponents that do not fall into one	able as primary over pressure protect e of the above categories	
N Nuclear components:	Class 1 Class 2 Class 3	, (Meeting CNSC or ASME require	rements)
Onow manufacturen	s Name, Trademark, or Logo	as it will appear on the produ	ct Type of Construction
REGO	<b>®</b>		Forged Welded a Wrought a Cast S Other a Describe other:
List of supporting de	ocumentation and identifica	tion of the actual items to be n	
See attached do	The state of the s	mon of the actual items to be n	egistered:
tings, and identificatio tings is regulated by a prified by ULMS.	n markings are in accordance Quality Control Program which	o solemnly declare that the information is sought. The dimension with the herein named standard chextends to each plant where to	and being the person having full authority nation contained in this form is true to the best as, materials of construction, pressure temperates. I further declare that the manufacture of the abrication occurs in whole or in part and has be make this solemn declaration conscientiously deroath.
gnature of Declarer: 2	ach Rubeor Dightely signed by Date: 2020.04,16		
eclared before me at _			
is day o	fAD	l les	e this space for the Official Seal
mmissioner of Oaths	30.557		and opace for the Official Seal
Notary Public: (sign)			
,	(Affix Official seal to the right	)	
	This	space for Regulatory Authority (1979)	
RN: 0C20511.5 Add1	i his registration must be re	evalidated after ten (10) years from the	date of cce.
ID#: 1704			\$2.00
oles;			Northwest
NAME OF THE OWNER OWNER OF THE OWNER OWNE	stered in the name of the Manufacture		Territories
Each Calegory shall be and one copy of support	Supported with two Statutory Declarat	ion forms	REGISTERED DER THE AUTHORITY OF
The Declaration shall be responsibility for the qua	made by the person having full authority of the end product.		BOILER AND PRESSURE VESSEL ACT.
Quality Control programs	shall be resubmitted for validation.	\	R.N. OCZOSII. ST Add
	f plant location in Shanghai		GNED Sect 1.0. Fittings Rev.2
CRN expir	es July 9, 2028 - DG		STE STAR 12 OND

DATE June

CRN expires July 9, 2028 - DG

New Brunswick Nunavut	Nova Scotia Yukon	Prince Edwar Northwest Te		ewfoundland and Labrador	
Manufacturers Na	110: Engineered Controls Internatio	nallIC			
Manufacturers Add	ress: 100 Rego Drive, Elon, NC 2	7244, USA			
Plant Locations: se	List of Manufacturing Locations		The state of the s		
B Flanges: all flanges C Valves: all line valve D Expansion joints, flet E Strainers, filters, sep F Measuring devices, it transmitters	dble connections, and hose as arators, and steam traps ncluding pressure gauges, leve	plugs, unions, pipe cap semblies: all types ol gauges, sight glasse:	s, or reducers s, levels, or pressure	Title of the Standard Construction  ASME B31.1	<u>əf</u>
H Pressure retaining co	ed pressure relief devices acce sels, piping and fusible plugs emponents that do not fall into	one of the above categ	ories		
N Nuclear components	Class 1 Class 2 Clas	s 3 🔲 , (Meeting CNS	C or ASMF requirements)		
Show Manufacturer	s Name, Trademark, or Lo	go as it will appear	on the product	Type of Construction	
REGO	<b>®</b>			Forged Welded Wroug Cast S Other C Describe other:	M o
List of supporting d	ocumentation and identifi	cation of the actua	I itama ta ha asalata		
ratings, and identification ittings is regulated by a verified by the control of	e quality of the end product its the product for which rec n markings are in accordan Quality Control Program w	gistration is sought. ace with the herein na which extends to each	The dimensions, mater amed standards. I furth plant where fabrication	d being the person having full aut ontained in this form is true to the ials of construction, pressure tem ner declare that the manufacture of n occurs in whole or in part and h is solemn declaration consciention	best of perature of these
Signature of Declarer: 2	Zach Rubeor Digitally significants 2020 D	ed by Zach Rubsor 4.16 14.00.24 -04.007	da ii mada under oatri		
eclared before me at _					
This day o	fAD_	***************************************	Use this sp	pace for the Official Seal	
Commissioner of Oaths					
Or Notary Public: (sign)	(Affix Official seal to the rig		<b>C3</b>	NUNAVUT	
CRN; 0C20511.5 Add		his space for Regulato a revalidated after ten (	Applets from the date of	Boilers and appropriate Vessels Act	
FID#; 1704			REC	GISTERED	
Notes					
I. All Fittings shall be regis	stered in the name of the Manufacti supported with two Stalutory Decla	urer vation forms		18, 2020 e 18, 2020	
<ol> <li>The Declaration shall be responsibility for the qua</li> </ol>	made by the person having full au		SignedCh	William -	-
Addition o	plant location in Shangh res July 9, 2028 - DG	al, China	Territorial	Registration Fee Rev 2	



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

September12, 2018

CHAD THOMAS ENGINEERED CONTROLS INTERNATIONAL LLC 100 REGO DR ELON NC 27244 US

Service Request Type.: BPV-National BC

Service Request No.: 2349244

Your Reference No.:

Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear CHAD THOMAS,

Please find enclosed the original response from BC, registered under the CRN No.: 0C20511.51.

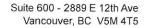
As all jurisdictional fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly.

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





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

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

Date:

July 19, 2018

Account #: 35231

Journal #: 71143

Attn: TANYA FRANCIS

Re: **Application for Design Registration** 

The design, as detailed in your, TSSA SR# 2349244, for a Fitting is accepted for registration as follows:

Registered To: ENGINEERED CONTROLS INTERNATIONAL LLC

CRN:

0C20511.51

MAWT: 165 deg F

MAWP: 150 psig

Drawing #: Per 9 Page Scope List

### Conditions Of Registration:

Registration of Regulators & Valves as per attached scope of registration sheets (9 pages).

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:

MDMT: -20 Deg F to -320 Deg F. As required by CSA B51 4.2.1, this registration expires on July 09, 2028. 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.

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

### SHARON PETERS

boiler.designregistration@technicalsafetybc.ca Design Administration

cc:



		Safety Dr	Boilers & Pressure Vessels	Technical Standards & Safety Authority	CHN UCZO	000000	TUIS IS DADY OF										-													Cat	
	C LV440366L SER	ty Division	ure Vessels	Safety Authority	511.5		C LV4403B SER	C LV3403VR	C LV4289-10	C LV3403VR	C LV3403UR	C LV3403TRL	C LV3403TRH	C LV3403TR	C LV3403K		C LV404B34			C LV404B SER		C   LV4403N4	C 5720B34		C 5754B4		C 575584		6 4403-54	Category System Number	
	ER Regulator						R Regulator	Regulator	Regulator	Regulator	Regulator	- Regulator	H Regulator	Regulator	Regulator		Regulator			R Regulator		Regulator	Regulator		Regulator	negalator	Regulator	ive Balator	Regulator	Description	
4403-20C	4403-34J	4403-12A	4403-20C	4403-20B	4403-20A	4403-34J	4403-1J	3403-1	3403A-1C	3403-1	3403-1	3403-1BSP	3403-1BSP	3403-1BSP	3403-1BSP	C404-1	3403A-1	C404-2	C404-1	3403A-1	4403-16B	4403-34J	3403A-4B	4403-34J	4403-1J	4403-34J	4403-1J	4403-16B	4403-1J	Body Number	
Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Brass Rod UNS C36000, ASTM B16	Brass Rod UNS C36000, ASTM B16	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Brass Forging Alloy, ASTM B283	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	24年	7																
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165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	Temp (F)	B
-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	Temp (F)	



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4403-34JP	4403-1JP	4403-16B	4403-16A	4403-16	4403-34JP	4403-1JP	4403-12A	4403-1JP	4403-20B	4403-20A	4403-20	4403-34JP	4403-1JP	4403-20A	4403-1JP	4403-20C	4403-20B	4403-12A	4403-34JP	4403-1JP	4403-12K	4403-34KP	4403-32C	4403-1MP	4403-20C	4403-20B	4403-R	4403-20B	4403-1J		Body Number	
Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Brass Rod UNS C36000, ASTM B16	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Brass Rod UNS C36000, ASTM B16	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86		1111	CRN #: 0C 205 11
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LV5503H					LV5503B		LV5503G4			LV5503C			LV4403YR		els	ority	LV4403Y	TI	J		LV4403V					LV4403V				Number	System	
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5503-35C	5503-18C	4403-16C	4403-16B	5503-35D	5503-35C	4403-16B	5503-35C	4403-12B	4403-12	5503-1C	4403-16C	4403-16B	4403-R	4403-16C	4403-16B	4403-34JP	4403-1JP	4403-16B	4403-16	4403-34JP	4403-1JP	4403-16C	4403-16B	4403-16	4403-34JP	4403-1JP	4403-16C	4403-16B	4403-16		Body Number	
Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Zinc Die Casting ASTM B86	Brass Rod UNS C36000, ASTM B16	Brass Rod UNS C36000, ASTM B16	Zinc Die Casting ASTM B86		BC J#: 71143	Date.
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-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	(F)	Min	

TECHNICAL SAFETY BC CRN #: 0C 20511.51

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				5503-35D	Zinc Die Casting ASTM B86	150	165	-40
				4403-16B	Zinc Die Casting ASTM B86	150	165	-40
				4403-16C	Brass Rod UNS C36000, ASTM B16	250	165	-40
				5503-18C	Brass Rod UNS C36000, ASTM B16	250	165	-40
	С	LV5503K	Regulator	5503-1DBSP	Zinc Die Casting ASTM B86	150	165	-40
				5503-1CBSP	Zinc Die Casting ASTM B86	150	165	-40
			25	4403-16K	Brass Rod UNS C36000, ASTM B16	250	165	-40
				5503-18K	Brass Rod UNS C36000, ASTM B16	250	165	-40
	С	LV5503Y	Regulator	5503-35C	Zinc Die Casting ASTM B86	150	165	-40
				5503-35D	Zinc Die Casting ASTM B86	150	165	-40
				5503-18C	Zinc Die Casting ASTM B86	150	165	-40
	0	LV404Y9	Regulator	LV4403-1	Zinc Die Casting ASTM B86	150	165	-40
				C404-2	Brass Forging Alloy, ASTM B283	250	165	-40
	С	LV404B39	Regulator	3403A-1A	Zinc Die Casting ASTM B86	150	165	-40
				C404-2	Brass Forging Alloy, ASTM B283	250	165	-40
	C	LV404B34	Regulator	3403A-1A	Zinc Die Casting ASTM B86	150	165	-40
				C404-1	Zinc Die Casting ASTM B86	250	165	-40
	С	LV3403B	Regulator	3403A-1B	Zinc Die Casting ASTM B86	150	165	-40
	C	4403W	Regulator	4403-1JP	Zinc Die Casting ASTM B86	150	165	-40
				4403-16	Brass Rod UNS C36000, ASTM B16	250	165	-40
				4403-16B	Brass Rod UNS C36000, ASTM B16	250	165	-40
				4403-20B	Brass Rod UNS C36000, ASTM B16	250	165	-40
	C	6579	Filler Valve	LEX7579-1	Brass Rod UNS C36000, ASTM B16	250	165	-40
				L7579-2	Brass Rod UNS C36000, ASTM B16	250	165	-40
				6579-2SS	304/305 Annealed Stainless Steel	250	165	-40
	C	8530	Delta Port	LEX7579-1	Brass Rod UNS C36000, ASTM B16	250	165	-40
	0	7579	Filler Valve	6579-1E	Brass Rod UNS C36000, ASTM B16	250	165	-40
				7579-1E	Brass Rod UNS C36000, ASTM B16	250	165	-40
edenth-see				7579-2A	Brass Rod UNS C36000, ASTM B16	250	165	-40
S	PART OF			7579-7	Brass Rod UNS C36000, ASTM B16	250	165	-40
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Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Division

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0				C					C	C	C	C		С		С		C		С		С		0	C	С	0		Category	
BB9408T				AR4108A SER					AR4106A SER	VA6024	VA6016	VA6010		FVA6024		FVA6016		FVA6010		FA6024		FA6016		FA6010	A6024	A6016	A6010		System	
				Relief Valve					Relief Valve	ESV	ESV	ESV		ESV	ESV	ESV	ESV		Description											
BB9408T-1CA	AK41U8A-2	AR4108A-3	AR4108A-20	AR4108A-1		AR4106A-2	AR4106A-3	AR4106A-20	AR4106A-1	6024-1A	6016-1D	A6010-1	FA6024-2	FA6024-1	FA6016-2	FA6016-1	FA6010-2	FA6010-1	FA6024-2	FA6024-1	FA6016-2	FA6016-1	FA6010-2	FA6010-1	6024-1A	6016-1D	A6010-1		Body Number	
Bronze Cast Alloy, UNS C92200, ASTM B61/584	A581/582/A314	FC Brass Rod, UNS C36000, ASTM B16	FC Brass Rod, UNS C36000, ASTM B16	FC Brass Rod, UNS C36000, ASTM B16	A581/582/A314	FC Stainless Steel, UNS C30300, ASTM	FC Brass Rod, UNS C36000, ASTM B16	FC Brass Rod, UNS C36000, ASTM B16	FC Brass Rod, UNS C36000, ASTM B16	Ductile Iron ASTM A395		Body Material	DO :: 7:112																	
720	600	600	600	600		600	600	600	600	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	(Psi)	Pressure	Service
165	165	165	165	165		165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	(F)	Temp	May
-320	-320	-320	-320	-320		-320	-320	-320	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	(F)	Temp	Min

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TILIHA         Service (Psi)         Max (F)           TILIHA         Pressure (Psi)         (F)           03, ASTM         720         165           TIM B16         720         165           TIM B16         720         165           ASTM B283         720         165           STM B16         600         165           STM B16         720         165           STM B16						a		
Section   Colore	Category	System	Description	Body Number	71143	Service	Max	Min
Globe   A58451-22   304L Stainless Steel, LUNS C30403, ASTM   720   165		Number				(Psi)	(F)	T.
B9402-11   FC Brass Rod, UNS C36000, ASTM B16   720   165			Globe Valve	458451-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
BB9408-2   Yellow Brass Forging, UNS C37700, ASTM B283   720   165				B9402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
C 2554A SER Globe 2554-1 Copper Alloy Castings, UNIS C36000, ASTM B16 720 165 Valve 2554-6A FC Brass Rod, UNIS C36000, ASTM B16 600 165 AR4104A SER Relief Valve AR4106A-1 FC Brass Rod, UNIS C36000, ASTM B16 600 165 AR4104A SER Relief Valve AR4106A-2 FC Brass Rod, UNIS C36000, ASTM B16 600 165 AR4106A-2 FC Brass Rod, UNIS C36000, ASTM B16 600 165 AR4106A-2 FC Brass Rod, UNIS C36000, ASTM B16 600 165 AR4106A-2 FC Brass Rod, UNIS C36000, ASTM B16 600 165 AR4106A-2 FC Stainless Steel, UNIS C36000, ASTM B16 600 165 AR4106A-2 FC Stainless Steel, UNIS C36000, ASTM B16 600 165 AR4106A-2 FC Stainless Steel, UNIS C36000, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C36000, ASTM B16 720 165 B89402-8 FC Brass Rod, UNIS C36000, ASTM B16 720 165 B89402-8 FC Brass Rod, UNIS C36000, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C3700, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C36000, ASTM B16 720 165 B89408-2 FC Brass Rod, UNIS C36000, ASTM B16 720 165 B89408-2 FC Brass Rod, UNIS C36000, ASTM B16 720 165 B89408-2 FC Brass Rod, UNIS C36000, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C3700, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C36000, ASTM B16 720 165 B89408-2 FC Brass Rod, UNIS C36000, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C36000, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C36000, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C36000, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C36000, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C36000, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C36000, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C36000, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C36000, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C36000, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C36000, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C36000, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C36000, ASTM B16 720 165 B89408-2 Yellow Brass Forging, UNIS C36000, ASTM B16 720				BB9408-2		720	165	-320
C         2554A SER         Globe Valve         2554-1         Copper Alloy Castings, UNS C83600, ASTM         600         165           C         AR4104A SER         Relief Valve         AR4106A-1         FC Brass Rod, UNS C36000, ASTM B16         600         165           C         AR4104A SER         Relief Valve         AR4106A-2         FC Brass Rod, UNS C36000, ASTM B16         600         165           AR4106A-2         FC Brass Rod, UNS C36000, ASTM B16         600         165           AR4106A-2         FC Brass Rod, UNS C36000, ASTM B16         600         165           AR4106A-3         FC Brass Rod, UNS C36000, ASTM B16         600         165           AR4106A-2         FC Stainless Steel, UNS C30300, ASTM         600         165           AR4106A-2         FC Brass Rod, UNS C36000, ASTM B16         600         165           AR4106A-2         FC Brass Rod, UNS C36000, ASTM B16         720         165           AR4106A-2         FC Brass Rod, UNS C36000, ASTM B16         720         165           AR4106A-2         FC Brass Rod, UNS C36000, ASTM B16         720         165           AR410A-2         FC Brass Rod, UNS C36000, ASTM B16         720         165           AR410A-2         FC Brass Rod, UNS C36000, ASTM B16         720         165				B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
C         AR4104A SER         Relief Valve         AR4106A-1         FC Brass Rod, UNS C36000, ASTM B16         600         165           C         AR4104A SER         Relief Valve         AR4106A-1         FC Brass Rod, UNS C36000, ASTM B16         600         165           AR4104A-20         FC Brass Rod, UNS C36000, ASTM B16         600         165         600         165           AR4106A-2         FC Brass Rod, UNS C36000, ASTM B16         600         165         600         165           AR4106A-2         FC Brass Rod, UNS C36000, ASTM B16         600         165         600         165           AR4106A-2         FC Brass Rod, UNS C36000, ASTM B16         600         165         600         165           AR4106A-2         FC Brass Rod, UNS C36000, ASTM B16         720         165         600         165           C         BB9404T         FC Brass Rod, UNS C36000, ASTM B16         720         165         720         165           BB9404S-2         PS BB9408-2         Yellow Brass Forging, UNS C36000, ASTM B16         720         165         720         165           C         BB9408S-2         FC Brass Rod, UNS C36000, ASTM B16         720         165         720         165           BB9408-2         PS BB9408-2         Ye	0	2554A SER	Globe	2554-1	Copper Alloy Castings, UNS C83600, ASTM	600	165	-320
C AR4104A SER Relief Valve A4106A-1 FC Brass Rod, UNS C36000, ASTM B16 600 165  AR4106A-20 FC Brass Rod, UNS C36000, ASTM B16 600 165  AR4106A-20 FC Brass Rod, UNS C36000, ASTM B16 600 165  AR4106A-2 FC Brass Rod, UNS C36000, ASTM B16 600 165  AR4106A-2 FC Brass Rod, UNS C36000, ASTM B16 600 165  AR4106A-2 FC Brass Rod, UNS C36000, ASTM B16 600 165  AR4106A-2 FC Brass Rod, UNS C36000, ASTM B16 600 165  AF458450-22 3041 Stainless Steel, UNS C36000, ASTM B16 720 165  BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B16 720 165  BB9404-1CA Bronze Cast Alloy, UNS C36000, ASTM B16 720 165  BB9404-1CA Bronze Cast Alloy, UNS C37700, ASTM B16 720 165  BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B16 720 165  BB9408-2 Yellow Brass Forging, UNS C36000, ASTM B16 720 165  BB9408-2 Yellow Brass Forging, UNS C36000, ASTM B16 720 165  BB9408-3 Globe BB9408-2 Yellow Brass Forging, UNS C36000, ASTM B16 720 165  BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B16 720 165  BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B283 720 165  BB9408-1 FC Brass Rod, UNS C36000, ASTM B283 720 165  BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B283 720 165  BB9408-3 Globe BB9408-2 Yellow Brass Forging, UNS C36000, ASTM B283 720 165  BB9408-3 Globe BB9408-3 FC Brass Rod, UNS C36000, ASTM B283 720 165  BB9408-3 FC Brass Rod, UNS C36000, ASTM B283 720 165  BB9408-3 FC Brass Rod, UNS C36000, ASTM B283 720 165  BB9408-3 FC Brass Rod, UNS C36000, ASTM B283 720 165  BB9408-3 FC Brass Rod, UNS C36000, ASTM B283 720 165  BB9408-3 FC Brass Rod, UNS C36000, ASTM B283 720 165  BB9408-3 FC Brass Rod, UNS C36000, ASTM B283 720 165  BB9408-3 FC Brass Rod, UNS C36000, ASTM B283 720 165  BB9408-3 FC Brass Rod, UNS C36000, ASTM B283 720 165  BB9408-3 FC Brass Rod, UNS C36000, ASTM B283 720 165  BB9408-3 FC Brass Rod, UNS C36000, ASTM B283 720 165  BB9408-3 FC Brass Rod, UNS C36000, ASTM B283 720 165  BB9408-3 FC Brass Rod, UNS C36000, ASTM B283 720 165			Valve		B62/B584			
C         AR4104A SER         Relief Valve         AR4106A-1         FC Brass Rod, UNS C36000, ASTM B16         600         165           AR4104A SER         Relief Valve         AR4104A-20         FC Brass Rod, UNS C36000, ASTM B16         600         165           AR4106A-2         FC Brass Rod, UNS C36000, ASTM B16         600         165           AR4106A-2         FC Stainless Steel, UNS C30300, ASTM B16         600         165           AR4106A-2         FC Stainless Steel, UNS C30300, ASTM B16         720         165           AR4106A-2         FC Stainless Steel, UNS C30300, ASTM B61/584         720         165           AR4106A-2         FC Stainless Steel, UNS C3000, ASTM B61/584         720         165           AR4106A-2         FC Brass Rod, UNS C36000, ASTM B61/584         720         165           BB940AT-1CA         Bronze Cast Alloy, UNS C36000, ASTM B16         720         165           BB940AS-2         FC Brass Rod, UNS C36000, ASTM B16         720         165           BB940AS-3         FC Brass Rod, UNS C36000, ASTM B61/584         720         165           BB940AS-3         FC Brass Rod, UNS C36000, ASTM B61/584         720         165           BB940AS-3         FC Brass Rod, UNS C36000, ASTM B61/584         720         165           BB940B-4 <td></td> <td></td> <td></td> <td>2554-6A</td> <td>FC Brass Rod, UNS C36000, ASTM B16</td> <td>600</td> <td>165</td> <td>-320</td>				2554-6A	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320
AR4104A-20 FC Brass Rod, UNS C36000, ASTM B16 600 165  AR4106A-3 FC Brass Rod, UNS C36000, ASTM B16 600 165  AR4106A-2 FC Stainless Steel, UNS C36000, ASTM B16 600 165  AR4106A-2 FC Stainless Steel, UNS C30300, ASTM B16 600 165  AR4106A-2 FC Stainless Steel, UNS C30300, ASTM 600 165  AR4106A-2 FC Stainless Steel, UNS C30300, ASTM 600 165  AR4106A-2 FC Stainless Steel, UNS C30300, ASTM B16 720 165  BB9404T Valve A58450-22 304L Stainless Steel, UNS C30200, ASTM B61/584 720 165  BB9408-2 Yellow Brass Rod, UNS C36000, ASTM B16 720 165  BB9404-1CA Bronze Cast Alloy, UNS C36000, ASTM B16 720 165  BB9404-1CA Bronze Cast Alloy, UNS C36000, ASTM B16 720 165  BB9408-2 Yellow Brass Rod, UNS C36000, ASTM B16 720 165  BB9408-2 Yellow Brass Rod, UNS C36000, ASTM B16 720 165  BB9408-3 FC Brass Rod, UNS C36000, ASTM B16 720 165  BB9408-3 FC Brass Rod, UNS C36000, ASTM B16 720 165  BB9408-1CA Bronze Cast Alloy, UNS C32000, ASTM B18 720 165  BB9408-1CA Bronze Cast Alloy, UNS C32000, ASTM B16 720 165  BB9408-1 FC Brass Rod, UNS C36000, ASTM B16 720 165  BB9408-1 FC Brass Rod, UNS C36000, ASTM B16 720 165  BB9408-1 FC Brass Rod, UNS C36000, ASTM B16 720 165  BB9408-1 FC Brass Rod, UNS C36000, ASTM B16 720 165  BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B16 720 165  BB9408-1 FC Brass Rod, UNS C36000, ASTM B16 720 165  BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B16 720 165  BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B16 720 165  BB9408-1 FC Brass Rod, UNS C36000, ASTM B16 720 165  BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B16 720 165  BB9408-1 FC Brass Rod, UNS C36000, ASTM B16 720 165  BB9408-1 FC Brass Rod, UNS C36000, ASTM B16 720 165  BB9408-1 FC Brass Rod, UNS C36000, ASTM B16 720 165  BB9408-1 FC Brass Rod, UNS C36000, ASTM B16 720 165  BB9408-1 FC Brass Rod, UNS C36000, ASTM B16 720 165  BB9408-1 FC Brass Rod, UNS C36000, ASTM B16 720 165  BB9408-1 FC Brass Rod, UNS C36000, ASTM B16 720 165	C	AR4104A SER	Relief Valve	AR4106A-1	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320
AR4106A-3 FC Brass Rod, UNS C36000, ASTM B16 600 165  AR4106A-2 FC Stainless Steel, UNS C30300, ASTM C BB9404T Globe 458450-22 304L Stainless Steel, UNS C30300, ASTM 600 165  BB9404S Globe Valve 458450-22 304L Stainless Rod, UNS C36000, ASTM B16 720 165 C BB9404S Globe 458450-22 304L Stainless Steel, UNS C36000, ASTM B16 720 165 C BB9408S Globe BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B16 720 165 BB9408-2 Yellow Brass Rod, UNS C36000, ASTM B16 720 165 BB9408-2 Yellow Brass Rod, UNS C36000, ASTM B16 720 165 BB9408-2 Yellow Brass Rod, UNS C36000, ASTM B16 720 165 BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B16 720 165 BB9408-1CA Bronze Cast Alloy, UNS C37700, ASTM B283 720 165 BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B16 720 165 BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B16 720 165 BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B16 720 165 BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B16 720 165 BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B16 720 165 BB9408-1 FC Brass Rod, UNS C36000, ASTM B16 720 165 BB9408-2 Yellow Brass Forging, UNS C36000, ASTM B16 720 165 BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B16 720 165 BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B16 720 165 BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B16 720 165 BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B16 720 165 BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B16 720 165 BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B16 720 165 BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B16 720 165				AR4104A-20	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320
C         BB9404T         Globe Valve         BB9404T-1CA Bronze Cast Alloy, UNS C32200, ASTM B61/584         720         165           C         BB9404T         FC Stainless Steel, UNS C32200, ASTM B61/584         720         165           C         BB9404T         A58450-22         304L Stainless Steel, UNS C36000, ASTM B61/584         720         165           BB9408-2         BB9408-2         Yellow Brass Forging, UNS C36000, ASTM B16         720         165           C         BB9404S         Globe         BB9402-12         Bronze Cast Alloy, UNS C36000, ASTM B16         720         165           BB9404S         Globe         BB9404-1CA         Bronze Cast Alloy, UNS C36000, ASTM B16         720         165           C         BB9404S         Globe         BB9408-1CA         Bronze Cast Alloy, UNS C36000, ASTM B16         720         165           BB9408-2         Yellow Brass Forging, UNS C37700, ASTM B16         720         165         165           C         BB9408-1CA         Bronze Cast Alloy, UNS C36000, ASTM B16         720         165           BB9408-1CA         Bronze Cast Alloy, UNS C36000, ASTM B16         720         165           C         BB9408-1CA         Bronze Cast Alloy, UNS C36000, ASTM B16         720         165           BB9408-1CA				AR4106A-3	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320
CC         BB9404T         Globe Valve         BB9404T-1CA         Bronze Cast Alloy, UNS C92200, ASTM B61/584         720         165           C         BB9404T         Valve         458450-22         304L Stainless Steel, UNS C30403, ASTM         720         165           BB9408-2         B8402-11         FC Brass Rod, UNS C36000, ASTM B16         720         165           C         BB9404S         Globe         BB9402-12         Yellow Brass Forging, UNS C37700, ASTM B16         720         165           C         BB9404S         Globe         BB9404-1CA         Bronze Cast Alloy, UNS C36000, ASTM B61/584         720         165           C         BB9404S         Valve         458450-22         304L Stainless Steel, UNS C36000, ASTM B61/584         720         165           BB9408-2         Yellow Brass Forging, UNS C36000, ASTM B61/584         720         165         165           C         BB9408-2         Yellow Brass Forging, UNS C36000, ASTM B61/584         720         165           BB9408-2         Yellow Brass Forging, UNS C36000, ASTM B16         720         165           BB9408-1CA         Bronze Cast Alloy, UNS C36000, ASTM B16         720         165           BB9408-1CA         Bronze Cast Alloy, UNS C36000, ASTM B16         720         165				AR4106A-2	FC Stainless Steel, UNS C30300, ASTM	600	165	-320
C         BB9404T         Globe Valve         BB9404T-1CA bronze Cast Alloy, UNS C92200, ASTM B61/584         720         165           C         BB9404T         Valve         458450-22         304L Stainless Steel, UNS C30403, ASTM         720         165           BB9408-2         B8402-11         FC Brass Rod, UNS C36000, ASTM B16         720         165           C         BB9404S         Globe B9402-8         FC Brass Rod, UNS C36000, ASTM B16         720         165           C         BB9404S         Globe Valve         458450-22         304L Stainless Steel, UNS C3000, ASTM B16         720         165           C         BB9408S         Valve         B8402-11         FC Brass Rod, UNS C36000, ASTM B61/584         720         165           BB9408S         BB9408-2         Yellow Brass Forging, UNS C30403, ASTM         720         165           C         BB9408S         Globe B9408-2         FC Brass Rod, UNS C36000, ASTM B16         720         165           BB9408S         Globe B9408-1CA         Bronze Cast Alloy, UNS C35000, ASTM B16         720         165           BB9408-1CA         B89408-1CA         Bronze Cast Alloy, UNS C36000, ASTM B16         720         165           BB9408-1CA         B89408-1CA         Bronze Cast Alloy, UNS C30403, ASTM B16         720					A581/582/A314			
Valve       458450-22       304L Stainless Steel, UNS C30403, ASTM       720       165         B8402-11       FC Brass Rod, UNS C36000, ASTM B16       720       165         B89408-2       Yellow Brass Forging, UNS C36000, ASTM B16       720       165         C       B89404S       Globe       B89404-1CA       Bronze Cast Alloy, UNS C36000, ASTM B16       720       165         C       B89404S       Valve       458450-22       304L Stainless Steel, UNS C30403, ASTM       720       165         B8402-11       FC Brass Rod, UNS C36000, ASTM B16       720       165         B89408-2       Yellow Brass Forging, UNS C36000, ASTM B16       720       165         B89408-1       Yellow Brass Forging, UNS C3700, ASTM B16       720       165         B89408-1       B89408-1       FC Brass Rod, UNS C36000, ASTM B16       720       165         B89408-1       B89408-1       Bronze Cast Alloy, UNS C36000, ASTM B16       720       165         B89408-1       B89408-1       Bronze Cast Alloy, UNS C30403, ASTM B16       720       165         B89408-1       B89408-1       Bronze Cast Alloy, UNS C30403, ASTM B16       720       165         B89408-1       B89408-1       Bronze Cast Alloy, UNS C30403, ASTM B16       720       165	С	BB9404T	Globe	BB9404T-1CA	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
A249/A269  B8402-11 FC Brass Rod, UNS C36000, ASTM B16  C BB9404S Globe BB9404-1CA Bronze Cast Alloy, UNS C92200, ASTM B16  C BB9408S Globe B9408-2 Yellow Brass Forging, UNS C3700, ASTM B16  C BB9408S Globe B9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B16  C BB9408S Globe B9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B16  C BB9408S Globe B9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B16  BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584  T20 165  BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584  T20 165  BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584  T20 165  BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584  T20 165  BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584  T20 165  BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584  T20 165  BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584  T20 165  BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584  T20 165  BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584  T20 165  BB9408-1CA BF9408-2  T20 165  T20 165  T20 165  T20 165			Valve	458450-22	304L Stainless Steel, UNS C30403, ASTM	720	165	-320
C       BB9408-2       Yellow Brass Forging, UNS C36000, ASTM B16       720       165         C       BB9404S       Globe       BB9402-8       FC Brass Rod, UNS C37700, ASTM B16       720       165         C       BB9404S       Globe       BB9404-1CA       Bronze Cast Alloy, UNS C36000, ASTM B16       720       165         C       BB9404S       Valve       458450-22       304L Stainless Steel, UNS C36000, ASTM B61/584       720       165         B8402-11       FC Brass Rod, UNS C36000, ASTM B16       720       165         BB9408-2       Yellow Brass Forging, UNS C37700, ASTM B16       720       165         BB9408S       Globe       BB9408-1CA       Bronze Cast Alloy, UNS C36000, ASTM B61/584       720       165         BB9408-1CA       Bronze Cast Alloy, UNS C36000, ASTM B61/584       720       165         BB9408-1CA       Bronze Cast Alloy, UNS C36000, ASTM B61/584       720       165         BB9408-1CA       Bronze Cast Alloy, UNS C30403, ASTM B61/584       720       165         BB9408-1CA       Bronze Cast Alloy, UNS C30403, ASTM B61/584       720       165         BB9408-1CA       Bronze Cast Alloy, UNS C30403, ASTM B61/584       720       165         BB9408-1CA       Bronze Cast Alloy, UNS C30403, ASTM B61/584       720					A249/A269			
BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B283 720 165  B9402-8 FC Brass Rod, UNS C36000, ASTM B16 720 165  C BB9404S Globe BB9404-1CA Bronze Cast Alloy, UNS C92200, ASTM B61/584 720 165  Valve 458450-22 304L Stainless Steel, UNS C36000, ASTM B61/584 720 165  B8402-11 FC Brass Rod, UNS C36000, ASTM B16 720 165  B89408-2 Yellow Brass Forging, UNS C37700, ASTM B283 720 165  B9402-8 FC Brass Rod, UNS C36000, ASTM B16 720 165  B9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584 720 165  B89408-1CA Bronze Cast Alloy, UNS C92200, ASTM B61/584 720 165  B89408-1CA Bronze Cast Alloy, UNS C92200, ASTM B61/584 720 165  B89408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584 720 165  B89408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584 720 165  B89408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584 720 165  B89408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584 720 165  B89408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584 720 165  B89408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584 720 165  B89408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584 720 165  B89408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584 720 165  B89408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584 720 165  B89408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584 720 165  B89408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584 720 165  B89408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584 720 165  B89408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584 720 165  B89408-1CA Bronze Cast Alloy, UNS C36000, ASTM B61/584 720 165  B89408-1CA BR9408-2 Yellow Brass Forging, UNS C37700, ASTM B61/584 720 165				B8402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
C         BB9404S         Globe Valve         BB9404-1CA         Bronze Cast Alloy, UNS C36000, ASTM B16         720         165           C         BB9404S         Globe Valve         458450-22         304L Stainless Steel, UNS C32200, ASTM B61/584         720         165           BB9408-2         Valve         458450-22         304L Stainless Steel, UNS C30403, ASTM B16         720         165           BB9408-2         PER Brass Rod, UNS C36000, ASTM B16         720         165         165           BB9408-2         PER Brass Rod, UNS C37700, ASTM B16         720         165           BB9408-1CA         Bronze Cast Alloy, UNS C36000, ASTM B16         720         165           BB9408-1CA         Bronze Cast Alloy, UNS C30403, ASTM B61/584         720         165           BB9408-1CA         Bronze Cast Alloy, UNS C30403, ASTM B61/584         720         165           BB9408-1CA         Bronze Cast Alloy, UNS C30403, ASTM B61/584         720         165           BB9408-1CA         Bronze Cast Alloy, UNS C30403, ASTM B61/584         720         165           BB9408-1CA         Bronze Cast Alloy, UNS C30403, ASTM B61/584         720         165           BB9408-1CA         BB9408-1         720         165         165           BB9408-1         BB9408-1         <				BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
C         BB9404S         Globe Valve         BB9404-1CA Bronze Cast Alloy, UNS C92200, ASTM B61/584         720         165           Valve         458450-222         304L Stainless Steel, UNS C30403, ASTM         720         165           B8402-11         FC Brass Rod, UNS C36000, ASTM B16         720         165           B89408-2         Yellow Brass Forging, UNS C37700, ASTM B283         720         165           B89408S         Globe B89408-1CA         Bronze Cast Alloy, UNS C36000, ASTM B61/584         720         165           Valve         458451-22         304L Stainless Steel, UNS C30403, ASTM B61/584         720         165           B8402-11         FC Brass Rod, UNS C36000, ASTM B61/584         720         165           B8402-11         FC Brass Rod, UNS C30403, ASTM B61/584         720         165           B8402-11         FC Brass Rod, UNS C36000, ASTM B16         720         165           B89408-2         Yellow Brass Forging, UNS C36000, ASTM B16         720         165           B89408-1         FC Brass Rod, UNS C36000, ASTM B16         720         165				B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
Valve       458450-22       304L Stainless Steel, UNS C30403, ASTM       720       165         B8402-11       FC Brass Rod, UNS C36000, ASTM B16       720       165         B89408-2       Yellow Brass Forging, UNS C36000, ASTM B16       720       165         C       B89408-1CA       Bronze Cast Alloy, UNS C36000, ASTM B16       720       165         B89408-1CA       Bronze Cast Alloy, UNS C92200, ASTM B61/584       720       165         Valve       458451-22       304L Stainless Steel, UNS C30403, ASTM       720       165         B89408-2       Yellow Brass Rod, UNS C36000, ASTM B16       720       165         B89408-2       Yellow Brass Forging, UNS C37700, ASTM B16       720       165	C	BB9404S	Globe	BB9404-1CA	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
A249/A269  B8402-11 FC Brass Rod, UNS C36000, ASTM B16  BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B283 720 165  C BB9408S Globe BB9408-1CA Bronze Cast Alloy, UNS C36000, ASTM B16 720 165  Valve 458451-22 304L Stainless Steel, UNS C36000, ASTM B16 720 165  B8402-11 FC Brass Rod, UNS C36000, ASTM B16 720 165  A249/A269  B8402-11 FC Brass Rod, UNS C36000, ASTM B16 720 165  B89408-2 Yellow Brass Forging, UNS C37700, ASTM B283 720 165			Valve	458450-22	304L Stainless Steel, UNS C30403, ASTM	720	165	-320
BB9402-11       FC Brass Rod, UNS C36000, ASTM B16       720       165         BB9408-2       Yellow Brass Forging, UNS C37700, ASTM B283       720       165         C       BB9408S       Globe       BB9408-1CA       Bronze Cast Alloy, UNS C92200, ASTM B61/584       720       165         Valve       458451-22       304L Stainless Steel, UNS C30403, ASTM       720       165         B8402-11       FC Brass Rod, UNS C36000, ASTM B16       720       165         B89408-2       Yellow Brass Forging, UNS C37700, ASTM B16       720       165         B89408-2       Yellow Brass Forging, UNS C37700, ASTM B283       720       165					A249/A269			
C       BB9408S       Globe       BB9408-1CA       BFC Brass Rod, UNS C36000, ASTM B16       720       165         Valve       458451-22       304L Stainless Steel, UNS C36000, ASTM B61/584       720       165         B89408-2       Yellow Brass Forging, UNS C36000, ASTM B61/584       720       165         B89408-2       Yellow Brass Forging, UNS C36000, ASTM B16       720       165         B89408-2       Yellow Brass Forging, UNS C37700, ASTM B283       720       165				B8402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
C         BB9408S         Globe         BB9408-1CA         Bronze Cast Alloy, UNS C92200, ASTM B61/584         720         165           Valve         458451-22         304L Stainless Steel, UNS C30403, ASTM         720         165           B89408-2         Yellow Brass Forging, UNS C36000, ASTM B16         720         165           B89408-2         Yellow Brass Forging, UNS C37700, ASTM B283         720         165			,	BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
C         BB9408S         Globe         BB9408-1CA         Bronze Cast Alloy, UNS C92200, ASTM B61/584         720         165           Valve         458451-22         304L Stainless Steel, UNS C30403, ASTM         720         165           A249/A269         B8402-11         FC Brass Rod, UNS C36000, ASTM B16         720         165           BB9408-2         Yellow Brass Forging, UNS C37700, ASTM B283         720         165				B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
Valve       458451-22       304L Stainless Steel, UNS C30403, ASTM       720       165         B8402-11       FC Brass Rod, UNS C36000, ASTM B16       720       165         BB9408-2       Yellow Brass Forging, UNS C37700, ASTM B283       720       165	С	BB9408S	Globe	BB9408-1CA	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
A249/A269  B8402-11 FC Brass Rod, UNS C36000, ASTM B16 720 165  BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B283 720 165			Valve	458451-22	304L Stainless Steel, UNS C30403, ASTM	720	165	-320
B8402-11 FC Brass Rod, UNS C36000, ASTM B16 720 165 BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B283 720 165					A249/A269			
BB9408-2 Yellow Brass Forging, UNS C37700, ASTM B283 720 165				B8402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
				BB9408-2		720	165	-320

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Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Division

SAFETY BC

Date:

					7117	Comico	Mau	AAis
	Category	System Number	Description	<b>Body Number</b>	Body Material	Pressure	Temp	Temp
				B9407-8	FC Brass Rod LINS C36000 ASTM R16	720	165	320
	0	BB9406T	Globe	BB9406T-1	Bronze Cast Alloy, UNS C92200, ASTM B61/B584	720	165	-320
			Valve	B8402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
				458451-22	304L SS Rod, U NS S30403, ASME A249	720	165	-320
				BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
				B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
	С	BB9416T	Globe	BB9416T-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
			Valve	222X16-22P	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			,	B9416-10	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
				BB9416-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
				B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
	C	BB9402S	Globe	BB9404-1CB	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
			Valve	458450-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			_	BB-9404-2F	Yellow Brass Forge, B283, UNS C37700	720	165	-320
				B-9402-11		720	165	-320
				452538-12	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
	C	BB9412F	Globe	BB9409F-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
			Valve	458432-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
				B9410-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
				BB9409-20	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
				B9410-2	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
	С	BB9406S	Globe	BB9406S-1	Bronze Cast Alloy, UNS C92200, ASTM B61/B584	720	165	-320
			Valve	B8402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
				458451-22	304L SS Rod, U NS S30403, ASME A249	720	165	-320
				BB9408-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
				B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
SISIHT	PARTO	BB9416T		BB9416T-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
CAN OC 20511.5	20511.5							
Commission Characters of Contract	المام مامام و ماما							

Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Division

TECHNICAL SAFETY BC SAFETY BC CRN #: 0C. 205 | 1.5|
Date: JULY 19, 2018

				Date: YUN IA C	α		
Category	System Number	Description	Body Number	<del>2</del>	Service Pressure (Psi)	Max Temp (F)	Min Temp (F)
		Globe	222X16-22P	304L Stainless Steel, UNS C30403, ASTM	720	165	-320
			B9416-10	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9416-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9416-6		720	165	-320
С	BB9412S	Globe	BB9412-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	458432-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			B9410-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9409-20	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9410-2	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
С	BB9412T	Globe	BB9412-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	458432-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			B9410-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9409-20	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9410-2	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
C	BB9402T	Globe	BB9404T-1CB	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	458450-22	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			BB-9404-2F	Yellow Brass Forge, B283, UNS C37700	720	165	-320
			B9402-11	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			B9402-8	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
C	BB9416F	Globe	BB9416F-1C	Bronze Cast Alloy, UNS C92200, ASTM B61/584	720	165	-320
		Valve	222X16-22P	304L Stainless Steel, UNS C30403, ASTM A249/A269	720	165	-320
			B9416-10	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
			BB9416-2	Yellow Brass Forging, UNS C37700, ASTM B283	720	165	-320
			B9416-6	FC Brass Rod, UNS C36000, ASTM B16	720	165	-320
	AK4112A SER	Relief Valve	AR4112A-1	FC Brass Rod, UNS C36000, ASTM B16	600	165	-320

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					C BI							Category	0
					BB9416S						21120	Number	System
				Valve	Globe							Description	
B9416-6	BB9416-2	B9416-10		222X16-22P	BB9416-1C	BR6108-5	7.411477	AB/117A_7	AR4112A-3	AR4112A-20		Description   Body Number	
FC Brass Rod, UNS C36000, ASTM B16	Yellow Brass Forging, UNS C37700, ASTM B283	FC Brass Rod, UNS C36000, ASTM B16	A249/A269	304L Stainless Steel, UNS C30403, ASTM	Bronze Cast Alloy, UNS C92200, ASTM B61/584	Bronze Cast Alloy, UNS C92200, ASTM B61	A581/582/A314	FC Stainless Steel, UNS C30300, ASTM	FC Brass Rod, UNS C36000, ASTM B16	FC Brass Rod, UNS C36000, ASTM B16		Body Material	
720	720	720		720	720	600		600	600	600	(Psi)	Pressure	Service
165	165	165		165	165	165		165	165	165	(F)	Temp	Max
-320	-320	-320		-320	-320	-320		-320	-320	-320	(F)	Temp	Min

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Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Division

TECHNICAL SAFETY BC CRN #: 0C20511.51
Date: 5Uby 19, 2018
BC J#: 711143