

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

January 30, 2015

SCOTT ISLIP ROUND ENGINEERING INC 10 SEGWUN RD WATERDOWN ON LOR 2H8 CA

Service Request Type: BPV-Fitting Registration Service Request No.: 1561958 Your Reference No.: EVOGUARD Registered to: EVOGUARD GMBH

Dear SCOTT ISLIP,

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

CRN No.: 0C17443.5 Main Design No.: BUTTERFLY VALVE SERIES: WVW, FVF, SIZES: 1" THRU 6", DN25 THRU DN150, SCOPE OF REGISTRATION Expiry Date: 30-Jan-2025

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,

Ruiming You, P.Eng. Mechanical Engineer, BPV Tel.: 416-734-3428 Fax: 416-231-6183 Email: <u>ryou@tssa.org</u>

Putting Public Safety First



TECHNICAL STANDARDS & SAFETY AUTHORITY 14th Floor, Centre Tower 3300 Bloor Street West Toronto, Ontario Canada M8X 2X4 Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

# **EVOGUARD**

# STATUTORY DECLARATION Registration of Fittings

MARTIN ZIERER, MANAGING DIRECTOR		
(Name and Position, e.g. President, Plant Manager,	Chief Engineer)	
f EVOGUARD GmbH		
(Name of Manufacturer)		
ocated at BRUCKER STRASSE 36, 93149, NITTENAU, GERMANY	09436/307 700	09401/70 94 3700
(Plant Address)	(Telephone No.)	(Fax No.)
do solemnly declare that the fittings listed hereunder, which are subject to and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.3	o the <b>Technical Standarc</b> of	Is and Safety Act, Boilers
(Title of recognized North American Stand which specifies the dimensions, materials of construction, pressure/temperature	<sup>lard)</sup> e ratings, identification markir	ng the fittings and service;
or are not covered by the provisions of a recognized North American star as supported by the attached data of pressure/temperature ratings and the basis for such ratings, the marking of	ndard and are therefore m which identifies the dimension of the fitting for identification	anufactured to comply with ons, material of construction, and service.
further declare that the manufacture of these fittings is controlled by a quality sy which has been verified by the following authority, TUV SUD	stem meeting the requirem	ients of ISO 9001:2008
The items covered by this declaration, for which I seek registration, are category <u>C, Bu</u> his application, the following information and/or test data are attached as follows: Drawings, Design Calculations, Data	utterfly Valves	type fittings. In support of
(drawings, calculations, test reports,	etc.)	-
he <u>09</u> day of <u>12</u> <u>AD 20</u> <u>14</u> .	<u>Country</u>	of <u>Crevmany</u>
commissioner for Oaths:	IN	1
(Signature)	(Signature o	l Declarer)
FOR OFFICE USE ONL To the best of my knowledge and belief, the application meets the requirements of Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, CSA Standard B51 and is accepted for registration in Category	Xandards the Jacoty and thority  	Salaty Program
CRN: $0C.1/443 + 3$		Shared the Bridge and Same
Registered by: <u>Kuming jou</u>		1443.5
Dated: <u>Jan 30</u> 2015	12300	2007000000000
NOTE: This registration expires on <u>(れ. 3</u> の 20 23)	Jana Jan. i	54 2015
NOTE: SEE SCOPE OF RÉGUSTRATIO	N ATTACHED	TO THE FOR
		() 139 20 ()

## KRONES/EVOGUARD Gmbh BRUCKER STRABE 36 93149 NITTENAU GERMANY

# EVOGUARD GMBH - SCOPE OF CRN REGISTRATION

Product	Series	Connection	Size	Material	Design	MAWP at
Description	Number	Туре	Range	Specification	Code	Temperature
Butterfly Valve	WVW	Weld End	1" OD thru 6" OD	UNS S31603	ASME B31.3, ASME Section VIII-1	145 psig at 302 F
Butterfly Valve	WVW	Weld End	DN25 thru DN150	UNS S31603	ASME B31.3, ASME Section VIII-1	145 psig at 302 F
Butterfly Valve	FVF	Weld End	1" OD thru 6" OD	UNS S31603	ASME B31.3, ASME Section VIII-1	145 psig at 302 F
Butterfly Valve	FVF	Weld End	DN25 thru DN150	UNS S31603	ASME B31.3, ASME Section VIII-1	145 psig at 302 F

THIS IS PART OF CRN OC174435 Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Program

Brucker Strabe 36 93149 Nittenau Germany

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	DE	SIGN CALCU	LATIONS IN ACC	CORDANCE WIT	HASME B31.3 AND A	SME SECTION VIII-1.	
Product De	scription.				TERMEDIATE ELANG	E CONNECTION (EVE)	
Valve Type:	scription.			Butterfly			
Catalogue P	oforonco.			TD10004285 F	N 03 Undate: 09/2013 /	(Note 1)	DATE CAR AND
Connection				Weld End	11 00, Opuale. 00/2010		SSION
Size Range	туре.			DN25 thru DN1	50	State PHO	A PARA
Size Manye	truction			1 AA0A / UNS 9	31603 / ASME SA182.	3161	
Bouy Cons	Sizo	DNI25	Drawing No.	0.001.706.675	Note 2	$1 / S / M \sim 2$	120120
	Size	DNZS	Drawing No.	0.001.706.676	Note 2	1 4	
	Size	DN40	Drawing No.	0.001.706.677	Note 2	- i e ne	ICHID DI
	Size	DN65	Drawing No.	0.001.706.678	Note 2		.ioch 🌫 👔
	Size	DN80	Drawing No.	0-901-790-070	Note 2		and a subscription of the
	Size	DN100	Drawing No.	0-901-790-079	Note 2	- And	
	Size	DN125	Drawing No.	0.001.842.246	Note 2		Statement Red
	Size	DN125	Drawing No.	0-901-042-240	Note 2	- NCF	NE ON AND
	otruction	DIVISO	Drawing No.	1 4401/1 4404	/ LINE \$31600/\$31603	ASME SA182-316/3161 Dital	Rator
Flange Con	Suucuon.	A II	Drowing No.	0.002.220.602	Noto 3	7	Hateu
Delting Cor	Size	All	Drawing No.	A2 70 / UNS S	20420 LINS \$20400 Du	J al Rated / ASME SA-193-B8-1	
Bolting Col	isu ucuon.			Various	50450,0113 550400 Du	a Rated / ASMIE SA-135-DU-1	
Seals:				Various			
Seals:				Various	aia 6053	FO	
MAWP:				140	ISIG SETT	SAL SEN	
at Temperat	ure:			302 1	AL SALL	in tol	
MDM1:				-20 1			
NDE:				None	REGI		
Note 7: See Note 2: See Note 3: See	Appendix A fo Appendix D fo Appendix E fo	n catalogue d or detailed dra or detailed dra N	wings and dimens wings and dimens	ilons. ilons.	SEE STATUTO	RCR.NUMBER	
The Evogua	Ind FVF Butter	N fly Valve cons	sists of two valve f	langes	•		
See Figure 1	a end connect	ion of the val	ve for installation i	s welding end.			
The valve fla	anges are utili	zed to mainta	in the split body v	alve			Breel .
assembly to	aether while u	Inder pressur	e.				Start Address 1
Note: Each	valve body als	o has two ass	embly bolts that a	are used			
for assembl	v/disassembly	purposes. Th	hese bolts are not	considered			
in the strend	oth calculation	s.					
The flanges	are analyzed	and found to	be in conformance	e with the			
requirement	ts of ASME Se	ection VIII-1, A	Appendix 2.			<b>•</b>	4
The valve b	ody minimum	wall thicknes	is is analyzed and	found			
					FLANGE-BODY GAS	(HALF NO. 1	
i ne welding	end wall thic	kness of the f	anges are analyz	eu	V	ALVE DISC/SEAT	
and found to	o be in confori	mance with the	ne requirements of	ſ	VA	LVE BODY HALF NO. 2	
ASME B31.	3.				FLAN	IGE-BODY GASKET NO. 2	]
APPENDIX	B presents a	exploded viev	v of the valve desi	ign		VALVE FLANGE NO. 2-	

<u>APPENDIX B</u> presents a exploded v for further clarification. 25-Sep-14

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VALVE FLANGE NO. 1

VALVE BODY HALF NO. 1

VALVE DISC/SEAT

VALVE BODY HALF NO. 2

FLANGE-BODY GASKET NO. 2-

VALVE FLANGE NO. 2

FLANGE-BODY GASKET NO. 1

assembly together while under pressure.

Note: Each valve body also has two assembly bolts that are used for assembly/disassembly purposes. These bolts are not considered in the strength calculations.

The **flanges** are analyzed and found to be in conformance with the requirements of ASME Section VIII-1, Appendix 2.

The <u>valve body</u> minimum wall thickness is analyzed and found to be in conformance with the requirements of ASME B31.3.

The welding end wall thickness of the <u>flanges</u> are analyzed and found to be in conformance with the requirements of ASME B31.3.

<u>APPENDIX B</u> presents a exploded view of the valve design for further clarification.

01-Dec-14

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The Evoguard WVW Butterfly Valve consists of two valve flanges that are bolted together to form the valve body. These flanges retain the valve seat, disc and stem. After assembly metal to metal contact exists outside the bolt circle diameter. See Figure 1.

The resulting end connection of the valve for installation is welding end.

The flanges are analized in accordance with the requirements of ASME Section VIII-1 using two methods.

**Method 1**: Flanges analized in accordance with Appendix Y of ASME Section VIII-1. **Method 2**: Flanges analized in accordance with Appendix 2 of ASME Section VIII-1.

In addition, the welding end wall thickness of the flanges are analyzed in accordance with the requirements of ASME B31.3.

APPENDIX B presents a exploded view of the valve design for further clarification.

12-Dec-14

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The Evoguard WVW Butterfly Valve consists of two valve flanges that are bolted together to form the valve body. These flanges retain the valve seat, disc and stem. After assembly metal to metal contact exists outside the bolt circle diameter. See Figure 1.

The resulting end connection of the valve for installation is welding end.

The flanges are analized in accordance with the requirements of ASME Section VIII-1 using two methods.

Method 1: Flanges analized in accordance with Appendix Y of ASME Section VIII-1. Method 2: Flanges analized in accordance with Appendix 2 of ASME Section VIII-1.

In addition, the welding end wall thickness of the flanges are analyzed in accordance with the requirements of ASME B31.3.

APPENDIX B presents a exploded view of the valve design for further clarification.