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www.tssa.org

January 03, 2019

SCOTT ISLIP ROUND ENGINEERING INC 10 SEGWUN RD WATERDOWN ON L8B 0K6 CA

Service Request Type: BPV-Fitting Registration Service Request No.: 2459072 Your Reference No.: R-0984A Registered to: CORROSION RESISTANT PRODUCTS LIMITED

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: 0C20968.5

Main Design No.: SAMPLE VALVES PFA LINED 1-1/2", 3", 6" Expiry Date: 03-Jan-2029

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

Note: See 'scope of CRN registration' and design report number R-0984A page 1 of 34.

A stamped copy of the approved registration and invoice for engineering services will be mailed to you shortly. Should you have any questions or require further assistance, however, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

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

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
Crb

STATUTORY DECL	ARATION			
Registration of Fitt				
David MacGregor, Engineering Manager				
(Name and Position, e.g. President, Plant Manager,	Chief Engineer)			
of Corrosion Resistant Products Limited				
(Name of Manufacturer)				
Located at Todmorden Road, Littleborough, OL15 9EG, United Kingdom	+441706756404			
(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> , Boilers and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.3, ASME B16.34				
(Title of recognized North American Stand which specifies the dimensions, materials of construction, pressure/temperature		g the fittings and service;		
or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with				
I further declare that the manufacture of these fittings is controlled by a quality sys	SOQAR	ents of <u>ISO 9001:2015</u>		
The items covered by this declaration, for which I seek registration, are category $\underline{C} - S_{J}$		_ type fittings. In support of		
this application, the following information and/or test data are attached as follows: SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIO	NS			
(drawings, calculations, test reports, e		Ling		
Declared before me at <u>LiHLeSeveryh</u> in the <u>C</u>	inter	of lancoshire		
the 13 p day of December AD 2018.	1	TER LLB		
Commissioner for Oaths	2.733 Union Street			
TOHN POLITIC	Cidham			
(Printed name)				
allan	Hound I have t	stefer		
(Sighature)	Technical Signature of	Boilers and		
FOR OFFICE USE ONL	Y and Safety	Pressure Vessels		
To the best of my knowledge and belief, the application meets the requirements of t		Safety Program		
Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, a	PEGIS	TERED		
CSA Standard B51 and is accepted for registration in Category				
$CRN: \qquad 0C20968.5$	C.R.N.: 0.C	209685		
Registered by: <u>A Wu</u>	Signed:	A3		
Dated: Jan 3 2019	Date: Jan	3.19		
NOTE: This registration expires on <u>Tan 3,2029</u>				
PV 09553 (06/04)				
SEE "SIOPE OF Wrigley Claydon				
(PAL REGISTRATION" 29/33 Union Stre				
AND DESIGN REPORT Oldham				

CORROSION RESISTANT PRODUCTS LIMITED

TODMORDEN ROAD LITTLEBOROUGH OL15 9EG, UNITED KINGDOM

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SCOPE OF CRN REGISTRATION

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Product	Model	End Connection	Body	Design	Body Material	CRN Design	Report
Description		Inlet/Outlet	Drawing	Code	Specification	Conditions	Number
Sample Valves -	SD-IL Series	1-1/2" CL 150 Wafer	SD520 R7	ASME B31.3,	Dual Rated Type 316/	10 barg at 180°C /	R-0984A
PFA Lined	400	1-1/2" CL 150 Wafer	S0817 R1	ASME B16.34	316L Stainless Steel	145 psig at 356°F	
		3" CL 150 Wafer	SD526 R6		UNS S31600/S31603		
		6" CL 150 Wafer	S0320 R0				



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08-Nov-18

PAGE 1 OF 1

CORROSION RESISTANT PRODUCTS LIMITED 08-Nov-18 TODMORDEN ROAD CLIDE LITTLEBOROUGH CLIDE OL15 9EG, UNITED KINGDOM Design Report Number R-0984A R-0984A DESIGN CALCULATIONS IN ACCORDANCE WITH ASME B16.34 Product Description: SAMPLE VALVES - PFA Lined

Froduct Description.	SAMFLE VALVES - FFA Lineu					
Models:	SD-IL Series 400					
Size Range:	1-1/2", 3", 6"					
Class:	CL. 150 per ASME B16.34	PFA Lined Sampling Value				
Connection Type:	Wafer (Valves bolt between ASME B16.5 CL 150 Flanges)					
Valve Body Construction:	Dual Rated Type 316/316L Stainless S					
·····	ASTM A240- 316/316L, ASTM A479-3					
Body Drawings:	Size 1-1/2" SD520 R7 (Standard Spindle), S0817 R1 (Special Spindle)					
(Note)	Size 3": SD526 R6					
	Size 6": S0320 R0	THIS IS PART OF				
Pressure - Temp Ratings:	10 barg at 180C / 145 psig at 356F					
MDMT:	-20F	CRN0020988.5				
Corrosion Allowance:	NI					
NDE:	None	Technical Standards & Safety Authority				
Note: See Appendix A fo	r valve body drawings and product lit	erature Boilers & Pressure Vessels				
ALLOWABLE STRESS		Safety Program				
ALLOWADLE OTIMEOS						
Material:	ASME	SA240-316/316L				
Allowable Stress Values @	100 F=	20,000 psi, Stress Value from ASME Section II Part D Table 1A				
Allowable Stress Values @	356 F=	19,608 psi, Stress Value from ASME Section II Part D Table 1A				
Yield Stress @	100 F=	30,000 psi, Stress Value from ASME Section II Part D Table 1A				
Tensile Stress @	100 F=	75,000 psi, Stress Value from ASME Section II Part D Table 1A				
•		Construction of the second statement of the statement of the second statement o second statement of the second statement of				
Material:	ASME	SA479-316/316L				
Allowable Stress Values @	100 F=	20,000 psi, Stress Value from ASME Section II Part D Table 1A				
Allowable Stress Values @	356 F=	19,608 psi, Stress Value from ASME Section II Part D Table 1A				
Yield Stress @	100 F=	30,000 psi, Stress Value from ASME Section II Part D Table 1A				
Tensile Stress @	100 F=	75,000 psi, Stress Value from ASME Section II Part D Table 1A				
Material:	ACME	CANDOLOGICIOTEE ALTRES DE LA SERVICE DE L				
	100 F=	ASME SA182-316/316L				
Allowable Stress Values @	100 F= 356 F=	20,000 psi, Stress Value from ASME Section II Part D Table 1A 19,288 psi, Stress Value from ASME Section II Part D Table 1A				
Allowable Stress Values @ Viold Stress @	356 F= 100 F=	30,000 psi, Stress Value from ASME Section II Part D Table 1A				
Yield Stress @	100 F=	75,000 psi, Stress Value from ASME Section II Part D Table 1A				
Tensile Stress @		TO, UVO POL OUCOD VALUE TUTI AOME OCCUUTTI FAIL D. TADIC TA				

DESCRIPTION OF PRODUCT

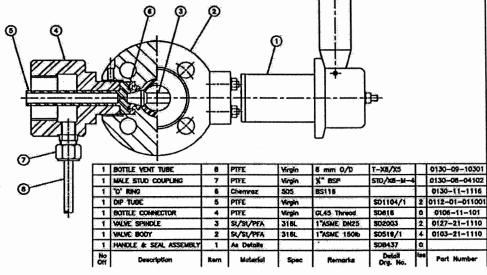


FIGURE 1

Typical valve construction details are shown above. Media is safely sampled using systems with a PFA lining over a metal type 316/316L stainless steel valve body.