

## FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufact	ured and certified	by:			FILTER SOLUTIO	NS INC. 649 E	nfield Roa	d, Burling	ton, Ontario, Cana	da L7T 2X9		
2. Manufact	ured for:			ESG F	ILTRATION #11	6025 12th St. S	SE, Calgary	, Alberta,	Canada, T2H 2K1			
2 Location	of inetallation:						dress of Purcha Jnknown	aser)				
3. Location of installation:					mines	(Name and address)						2014
. Type: Vertical Filter (Horizontal or vertical, tank)			(Manufacturer's serial number)		W2404.2 (CRN)	3	WO14967 FAB REV.1 (Drawing number)			(National Board number)		(Year built)
5 The ches	nical and nhwica	nronerties of	all parts mee	at the requirem	ents of material spe	ecifications of the	ASME BOI	LER AND	PRESSURE VESSE	L		
CODE	. The design, con	struction, and	workmanship	conform to A	SME Rules, Section	VIII, Division 1.				2010 Edition (Year)		
2011-144-4						PSC				None		
to		2011a Adder ends, if applicable				(Code Case number				[Special service per UG-120(d)]		
6. Shell:	SA 240			1"	None		36.5" (Inner diameter)				[Length (overall)]	
	(Material spec. number, grade)		(Nominal thickness)		(Corr. all	ow.)	dialitica menunciari)					
7. Seams:	Type 1		Full 100		0		Type 1  (Time hr) [Girth (welded, dbl angl, lap, buit)]			Full (R.T (spat or full))	100 [Eff. (%)]	(No. of courses)
	[Long (webed, dbi. sngl , lap, bult)]		[A.T. (spot or fulf)] [Eff. [%)]		%)] (H T, temp.)	(Time.)						
2010720			ÇA.	240 316		(b) Ma	iteria			SA 240 316		
B. Heads: (a) Material			(Spec. no. grade)		100					(Spec. no , grade)		Pressure
Location (Top,		Minimum	Corrosi	11.1		Elliptical	Conical Apex Angle		Hemispherical Radius	Flat Diameter		or Concave)
	ottom, Ends)	Thickness	Allowan	ce Radiu	s Radius	Ratio 2:1	Apex /		*	-		onçave
(a) (b)	Top Bottom	0.947"	-			2:1					Co	ncave
	le, bolts used (de		stenings)			SA 193 B7 / S	A 194 2H,	2.5"-B UN	STUD/NUT, (8) F	leguirea		
					at max	temp	(Material, s	100 O	, grade, size, number) F			
9. MAWP 1440 psi (Internal)			(External)			temp.	(Internal)			(External)		
Min. desig	n metal temp.	-50	°F	at	1440 psi	. Hydro., pr	neu., or com	b. test pres	ssure	(Hydro)	1872 psig	
	s, inspection, and		openings: Diameter		Mat	erial	Nozzie T	hickness	- Reinforcement Ma	torial		Location (Insp.
Control of the sales	ttet, Drain, etc.)	No.	or Size	Турв	Nozzle	Flange	Nom.	Corr.	Titolina oo in oo i	Nozzie WLD	Flange INTG'L	Орепл
	nlet (N1)	1	4"	CL.600 LWI		SA 182F 316 SA 182F 316	1"	- :		WLD	INTG'L	14
	ratlet (N2) ent(N3)	1	1"	CL.600 LWI	SA 182F 316	3A 1021 010	6000#		+	WLD		
	n Drain(N4)	1	2"	CL.600 Wh		SA 182F 316	0.154"		-	WLD WLD	INTG'L	- :
	Drain(N5)	1	1/2"	CPLG.	SA 182F 316 SA 182F 316		6000# 6000#	- :		WLD		
Gaug	e Port(N6/7)	2	1/2"	CPLG.	15A 162F 316		0000#				A 1500	
11. Suppo	rks: Manufacturer	No Yes or no) 's Partial Data			(Name of p	art, item number. Ma	Ctors have b	me and ident			OSNEH & D	ottom head
			lm	pact test exer	mpt per UHA-51 &	UCS-66 / Built	to grawing	WU1496	FAD REV.3			
Vess I, the	el constructed be undersigned, h	E BOILER A  Brd 2014  4 114  y  olding a valid  omponent de  wledge and	Co. N  d commissio  scribed in the	port are corrections of the correction of the co	Filter Solu  Obsorbers  ERTIFICATE O  ons Inc  the National Board  and employed  urer's Data Report  has constructed the	of Boiler and by consist pressure vess the inspector.	naterial, co  1. "U" Cert  LD INSP  Pressure Verence in account is/her	Signed  ECTION  essel Insped  dance with employer	Burlington, ectors and/or the S TSSA of Onta	Ontario tate or Provincerio  AND PRESSU	and state RE implied,	
	erning the press ner for any perso	wee mercel de	scribed in the property di	his Manufact amage or a lo	urer's Data Report ss of any kind aris	Furthermore.	neither the	inspector	pection.	yer shall be liab		1