

ALBERTA MUNICIPAL AFFAIRS

Alberta Boilers Safety Association

200, 4208 - 97 Street

Edmonton AB T6E 5Z9

**MANUFACTURER'S DATA REPORT
FOR MINIATURE PRESSURE VESSEL****DÉCLARATION DE CONFORMITÉ DU CONSTRUCTEUR
D'APPAREILS SOUS PRESSION**

Upon shipment of a pressure vessel, this form fully and correctly filled in must be mailed to the office of the Chief Inspector in the province of installation in accordance with the regulations under the Act, governing the construction and installation of pressure vessels.

Au moment de l'expédition d'un appareil sous pression, ce formulaire complété correctement, doit être envoyé au bureau de l'inspecteur en chef de la province d'installation tel que prévu dans les règlements de la loi sur les appareils sous pression.

Manufactured by Construit par	Name and address of Manufacturer/ <i>Nom et adresse du constructeur</i> Toromont Process Systems 10121 Barlow Trail NE, Calgary, Alberta, Canada, T3J 3C6
Manufactured for Construit pour	Name and address of Purchaser or Consignee/ <i>Nom et adresse du client ou de son représentant</i> Stock
Ultimate owner Utilisateur	Name and address/ <i>Nom et adresse</i> Stock
Location of installation Lieu d'installation	Name and address/ <i>Nom et adresse</i> Unknown

Pressure vessel/ Appareil

Type/ <i>Genre</i> Fuel Gas Filter	Overall Length/ <i>Longueur totale</i> 3' 83/4"	Serial No./ <i>N° de série</i> 80349401H	Year built/ <i>Année de fabrication</i> 2006
Provincial Registration No. - C.R.N./ <i>N° d'enregistrement provincial</i> - N.E.C. L1488.213			Drawing No./ <i>N° de dessin</i> FFT-065-01-CS-001 Rev. 0

The chemical and physical properties of all parts meet the requirements of material specifications of the A.S.M.E. Code.
Les propriétés chimiques et physiques de toutes les composantes respectent les exigences des spécifications de matériaux de code ASME.

The design, construction and workmanship conform to CSA B51. <i>La conception, la construction et la façon sont conformes à ACNOR B51.</i>	ASME Section VIII	Division 1	Addenda/ <i>Supplément</i> 2005	Code case No. <i>N° de cas</i> -
Manufacturer's partial data reports properly identified and signed by authorized inspectors have been furnished for the following items of the report, and attached to this report: <i>Les rapports partiels du constructeur adéquatement identifiés et signés par les inspecteurs autorisés ont été produits pour les items suivants du rapport, et attachés à ce rapport:</i>				
Names of parts/ <i>Nom de la composante</i>	Item No./ <i>N° d'item</i>	Manufacturer's Name/ <i>Nom du constructeur</i>	Identifying Stamp/ <i>Estampe d'identification</i>	
-	-	-	-	
-	-	-	-	

Shell/ Virole

Description	Material <i>Matériau</i>	Thickness <i>Épaisseur</i>	Corr. Allow. <i>Surépais. de corr.</i>	Diameter <i>Diamètre</i>	Longitudinal Joints <i>Joints longitudinaux</i>			P.W.H.T. <i>Traitement therm</i>		Girth Joints <i>Joints de circonférence</i>		Number of courses <i>Nombre de sections</i>
					Type	R.T. <i>Radiog.</i>	Efficiency <i>Efficacité</i>	Temp.	Time <i>Durée</i>	Type	R.T. <i>Radiog.</i>	
Shell	SA-106B	0.280"	0.0625"	6" NPS	Type S	-	1.0	-	-	Type 1&7	Spot*	2

Heads/ Têtes

Description	Material <i>Matériau</i>	Min. Thickn. <i>Épais. minim.</i>	Corr. Allow. <i>Surépais. de corr.</i>	Crown Radius <i>Rayon couron.</i>	Knuckle Radius <i>Petit rayon</i>	Ellipse Ratio <i>Rapp. ellipse</i>	Conical Apex Angle <i>Angle conique</i>	Hemisp. Radius <i>Ray. Hémisph</i>	Flat Diameter <i>Diam. plat</i>	Side to pressure <i>Côte sous pression</i>
Top Head	SA-105N	1.00"	0.0625"	-	-	-	-	-	11"	Flat
Bottom Head	SA-516-70N	1.00"	0.0625"	-	-	-	-	-	9.5" x 12"	Flat
Removable bolts used (describe other fastenings) <i>Boulons amovibles utilisés (décrire tout autre attache)</i>					Mat'l Spec./ <i>Spéc. du mat.</i> SA-193			Grade B7		Size/ <i>Dimension</i> 3/4"

Pressure - Temperature/ Pression - température

Pressure Vessel Part <i>Partie de l'appareil</i>	Constructed for max. allowable working pressure <i>Construit pour une pression maximale de marche permise</i>	At max. temp. <i>A une temp. max.</i>	Min. Temp. (when less than -29°C) <i>Temp. min. (inférieure à -29°C)</i>	Test pressure (hydro-pneumatic or combination) <i>Pression d'épreuve (hydro-pneumatique ou combinaison)</i>
Shell	245	250°F	-20°F	245

Tube Section/ Faisceau tubulaire

Tubesheet/ Plaque tubulaire	Material/ Matériau	Diameter/ Diamètre	Nominal Thickness Épaisseur nominale	Corr. Allow. Surépais. corrosion	Attachment Mode d'attachement
-	-	-	-	-	-
Tube material/ Matériau des tubes	Diameter/ Diamètre	Nominal Thickness (gauge) Épaisseur nominale (calibre)	Number/ Nbre	Type (Straight or U) Type (Droit ou U)	Heating Surface Surface de chauffe
-	-	-	-	-	-

Jacket/ Chemise

Type of jacket/ Genre de chemise	Jacket closure Fermeture de chemise	Proof Test Pression d'épreuve	Heating Surface Surface de chauffe	Sketch/ Schéma
-	-	-	-	-

Safety Valve Outlets/ Soupapes de sûreté

Number/ Nombre	Dimension	Location/ Endroit
See Remarks	-	-

Nozzles and Openings/ Tubulures et ouvertures

Purpose/ But	Number Nombre	Dimension	Type	Material Matériau	Nominal Thickness Épaisseur nominale	Reinforcement material Matériau de renfort	How attached Genre d'attaches	Location/ Endroit
N1 Service Opening	1	6"	CL 150# RFWN	SA-105N	0.280"	-	Butt Weld	Shell
C1/C2 Inlet / Outlet	2	1 1/2"	NPT Cplg	SA-105N	6000#	-	UW-16.1c	Shell
C3 LSHH	1	1 1/2"	NPT Cplg	SA-105N	6000#	-	UW-16.1c	Shell
C4/A/B LG	2	3/4"	NPT Cplg	SA-105N	6000#	-	UW-16.1c	Shell
C5A/C7 Drain/Vent	2	3/4"	NPT Cplg	SA-105N	6000#	-	UW-16.1c	Shell
C5B Drain	1	1"	NPT Cplg	SA-105N	6000#	-	UW-16.1c	Shell
C6 LC	1	2	NPT Cplg	SA-105N	6000#	-	UW-16.1c	Shell

Supports/ Supports

Skirt/ Jupe Yes/ Oui No/ Non <input type="checkbox"/> <input checked="" type="checkbox"/>	Lugs/ Oeilles No./ Nbre -	Legs/ Pieds No./ Nbre -	Other/ Autres (Description) Flat Head	Attached/ Attaches (Where and How/ Méthode et endroit) Shell & Welded
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Remarks/ Observations (Cubical capacity/ Volume)

Item: F-2, Construction Drawing: 80349-401 Rev. 1
 *UW-11(a)5(b) on Cat. B Welds Only, Volume: 1.21 Cubic Feet
 Impact Testing.: No, Per UG-20(f)
 Relief Valve Installed on Piping as per UG-125

Certificate of Compliance/ Certificat de conformité

We certify that the statements made in this data report are correct and that the said vessel has been constructed in accordance with the Provincial Registered design below and the requirements of standard CSA B51.

Nous certifions que les données de la déclaration de conformité sont correctes et que l'appareil a été construit en accord avec l'enregistrement provincial ci-dessous et les exigences de la norme ACNOR B51.

Provincial Registered Design
 Enregistrement provincial L1488.213

Manufacturer
 Constructeur Toromont Process Systems

Signature [Signature] Date 14 Mar 06
 (Representative)

Signature [Signature] Date 03/14/06
 (Certified Individual)

CERTIFIED BY

TOROMONT PROCESS SYSTEMS

CALGARY, ALBERTA, CANADA

W
RT2

M.A.W.P. 245 PSI. @ 250 °F

M.A.E.W.P. - PSI. @ - °F

M.D.M.T. -20 °F @ 245 PSI

SERIAL # 80349401H YEAR BUILT 2006

ITEM # F-2 CRN # L-1488.213



Customer	STOCK	Vessel	FUEL GAS FILTER
Project		Serial No.	80349401H
		Tag No	F-2

PRESSURE VESSEL TRAVELER

CI

OPERATION			QCI	DATE	AI	DATE
AI review date						
Hold point** Inspection point*			SC	10/26/05	RP *	Oct 29/05
Approved Construction Drawing			SC	10/26/05	RP	Oct 29/05
Mill test reports Reviewed & Accepted			Rq	12 Jan 06	RP **	03/14/06
Plate edge Inspection			Rq	12 Jan 06		
Plate Thickness Verified			Rq	12 Jan 06		
Out of Round Examination (Shells & Heads)			Rq	12 Jan 06		
Vessel Layout			Rq	12 Jan 06		
Vessel Fit Up	Long Seams Shell to Head A Shell to Head B		Rq	2 Jan 06	RP *	03/14/06
Nozzles and Fittings	Fit Up Rating		Rq	12 Jan 06		
Internal Welding Inspection			Rq	12 Jan 06	RP *	01/12/06
Non Destructive Examination	Radiography RT-2	SPOT Covered by 80349401H	Rq	12 Jan 06	RP *	03/14/06
	Other					
External Welds and Alignment (Visual)			Rq	14 Mar 06	RP *	03/14/06
Vessel Released for P.W.H.T.						
Verification of P.W.H.T. Chart						
Hydrostatic Test	Gauge No.	G44				
Test Pressure:	319PSI	2196KPAG	Rq	14 Mar 06	RP **	03/14/06
Registered Drawing	No.	FFT-065-01-CS-001 REV 0	Rq	14 Mar 06	RP *	03/14/06
	CRN	L1488.213				
Data Report Reviewed and Accepted			Rq	14 Mar 06	RP **	03/14/06
Name Plate Stamped			Rq	14 Mar 06	RP *	03/14/06
OTHER						
Vessel drained after Hydro Test			Rq	14 Mar 06		

NOTE: All the above examinations by the Company are mandatory and must be so signed by a Shop Inspector. The Authorised Inspector will perform and sign where indicated on the required AI inspection. Additional requirements will be listed on the back of this form.

**TOROMONT PROCESS SYSTEMS
MATERIAL INSPECTION**

PROJECT NUMBER: 80349401H

ITEM	MAT'L	HEAT NO.	SIZE	THICKNESS	QCI
101 Plate	SA-516-70N	50707-237402-1	1" Plate (9 1/2" x 12")	1.11", 1.09"	Rg
102 Shell	SA-106-B	16374	6" STD x 16 1/4" Long	0.287", 0.285"	Rg
102 Shell	SA-106-B	16616	6" STD x 28 3/8" Long	0.287", 0.284"	Rg

ITEM	Record of actual Code required markings	ITEM	Record of actual Code required markings
C4A, C4B CSA	3/4 6M/6000 SA-105N B16 78250 'omc'	C1, C2, C3	1 1/2 6M/6000 SA-105N B16 32499 'omc'
C7	3/4 6M/6000 SA-105N B16 72978 'omc'		1 1/2 6M/6000 SA-105N B16
	3/4 6M/6000 SA-105N B16	C6	2 6M/6000 SA-105N B16 32499 'omc'
C5B	1 6M/6000 SA-105N B16 72073 'omc'		2 6M/6000 SA-105N B16
	1 6M/6000 SA-105N B16		2 6M/6000 SA-105N B16



TOROMONT PROCESS SYSTEMS
HYDROSTATIC TEST REPORT

CUSTOMER STOCK
TITLE F-2 FUEL GAS FILTER
SERIAL NO. 80349401H

SHELL SIDE HYDROSTATIC TEST @ 319 **PSIG,**
TUBE SIDE HYDROSTATIC TEST @ N/A **PSIG,**

SHELL SIDE GAUGE NO. 944
TUBE SIDE GAUGE NO. N/A

Hydrostatic test was in compliance with the requirements of the ASME Code Section VIII div. 1 latest edition & addenda, as specified by the rule of paragraph UG-99,

REMARKS: Hydrostatic test with water.

Minimum hydrostatic test temperature 35 Deg. F

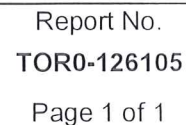
**TOROMONT
PROCESS**

A handwritten signature in dark ink, appearing to be 'Paw', written over a horizontal line.

DATE 14 March

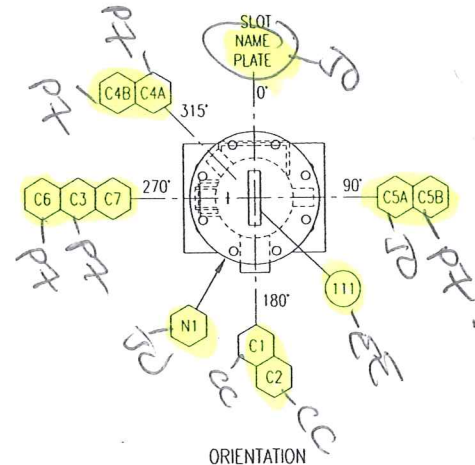
CUSTOMER/AGENT

DATE _____



Job #: 80349401G	Dispatch #: 219435	Date: 7-Mar-06
Client: TOROMONT	Customer:	
Location: Main Shop	P.O / W.O #:	
Item: Vessel Circ Seam	Material: P1	

IRISNDT - E Rev #: 0

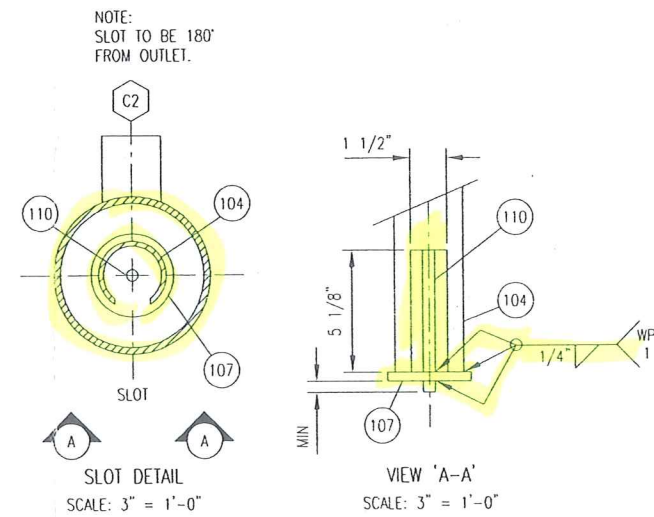
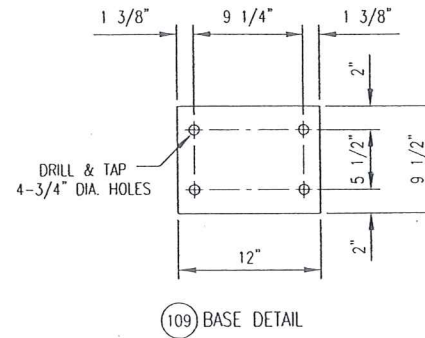
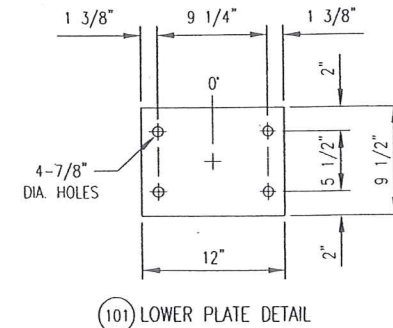


TOROMONT PROCESS SYSTEMS

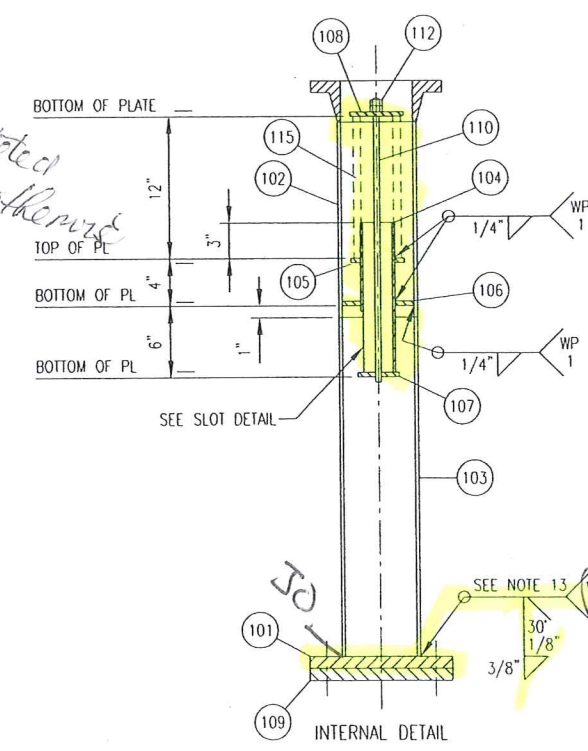
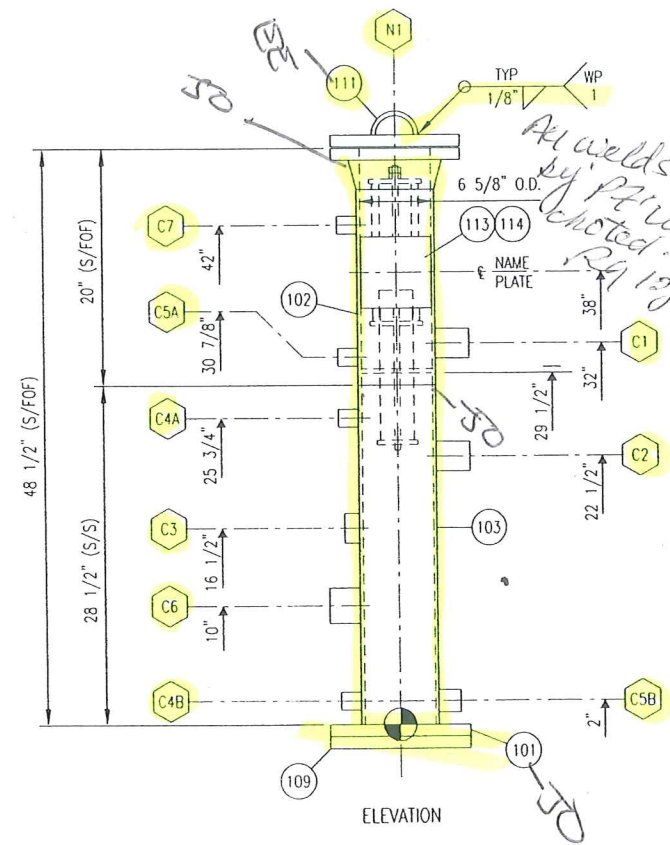
OCT 21 2005

ISSUED FOR CONSTRUCTION

PER

[illegible]

ITEM	DESCRIPTION	QTY	LENGTH	HEAT NUMBER
101	PLATE: 1" THK 9 1/2"	SA-516-70	1 12"	50701231402
102	PIPE: 6" NOM STD WT	SMLS SA-106-B	1 16 1/4"	16646 16374
103	PIPE: 6" NOM STD WT	SMLS SA-106-B	1 28 3/8"	16646
104	PIPE: 2 1/2" NOM STD WT	SMLS SA-106-B	1 12 5/8"	
105	PLATE: 3/8" THK 4 1/2" O.D. X 3" I.D.	SA-36 MIN.	1 -	
106	PLATE: 3/8" THK 5 15/16" O.D. X 3" I.D.	SA-516-70	1 -	
107	PLATE: 3/8" THK 3 1/2" O.D. X 1 1/2" I.D.	SA-36 MIN.	1 -	
108	PLATE: 3/8" THK 4 1/2" O.D. X 1 1/2" I.D.	SA-36 MIN.	1 -	
109	PLATE: 1" THK 9 1/2"	SA-36 MIN.	1 12"	
110	ROUND BAR: 1/2" DIA. (TOE UNC)	SA-36	1 24"	
111	PIPE: 4" NOM STD WT (CUT IN HALF)	SMLS SA-106-B	1 1"	
112	HEX NUT: 1/2" UNC	SA-194-2H	2 -	
113	NAME PLATE: TOROMONT PROCESS SYSTEMS	STAINLESS STEEL	1 -	
114	NAME PLATE BRACKET: 1/4" THK	SA-516-70	1 -	
115	FILTER: PECO MODEL # FG-312	-	1 -	



- GENERAL NOTES:
1. RAIL DIMENSIONS FROM REFERENCE POINT.
2. WELD PROCEDURE REGISTRATION No. WP 496.2.
3. ALL WELD JOINT HOLES TO STRADDLE MAJOR CENTERLINES
UNLESS OTHERWISE NOTED.
4. ALL WELDS TO BE ANSI 16.5, ALL FORCED THD & SW
PER ANSI B16.11, UNLESS OTHERWISE NOTED.
5. WELDS TO BE FREE OF
& INTERIOR OF VESSEL TO BE FREE OF
SPATTER, GREASE, MOISTURE, ETC.
6. WELD LENGTHS ARE FINISHED LENGTHS, PIPING
LENGTHS ARE BASED ON 1/8" (3 mm) WELD GAP.
7. NAME PLATE 1" (25 mm) FROM SHELL/INSUL.
8. WELDS TO BE PER WP 1.
9. PREPARATION: SSPC-SP 6 INTERNAL ONLY, SP2 FOR RES.
10. ONE COAT OF PRI-1 RED OXIDE
11. ONE COAT FIN-1
12. COLOR: NONE
13. COATINGS REQUIRED AS PER UG-93(d)(4)(c).
14. MATERIAL SUBSTITUTION:
SA-333-6 FOR SA-106B; SA-350-LF2 FOR SA-105N;
20-WPL6 FOR SA-234-WPB.
15. TOLERANCE FOLLOWS TFS ENG_PRO_003_VES
16. HYDRO VESSEL TEMP SHALL BE 30°F ABOVE MDMT
NOT LOWER THAN 35°F
17. WELDED UNDER DWG. FFT-065-01-CS-001 REV.0

HYDROSTATIC TEST PRESS.		319	PSIG		2196	KPA	
IMPACT TEST EXEMPT PER		UG-20(I)					
RADIOGRAPHY:							
PART		CODE		TYPE		JE	
FLANGE (CAT 'B')		UW-11(a)5(b)/UW-12(d)		SPOT		1.00	
F.HEAD (CAT 'C')		N/A		NONE		1.00	

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CERTIFIED BY

TOROMONT PROCESS SYSTEMS

CALGARY, ALBERTA, CANADA

W
R12

M.A.W.P. 245 PSI @ 250 'F

M.A.E.W.P. — PSI @ — 'F

M.D.M.T. -20 'F @ 245 PSI

SERIAL # 80349401 YEAR BUILT 2005 #


ITEM # F-2

CRN # L-1488.213

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DESIGN AND FABRICATION TO BE IN ACCORDANCE WITH THE PROVINCE OF ALBERTA, BRITISH COLUMBIA, SASKATCHEWAN REGULATIONS AND A.S.M.E. CODE SEC. VIII DIV. 1 2004 EDITION, ADDENDA				
DESIGN PRESSURE	245	PSIG	1689	KPAG
DESIGN TEMPERATURE	250	DEG.F	121	DEG.C
MIN. DESIGN METAL TEMPERATURE	-20°F @ 245	PSIG	-29°C @ 1689	KPAG
MAX. ALLOWABLE WORKING PRESS.	245	PSIG	1689	KPAG
LIMITED BY	FLANGE RATING			
CORROSION ALLOWANCE	0.0625"	1.6 MM		
POST WELD HEAT TREATMENT	NO			
SERVICE	NATURAL GAS			
VOLUME	1.21	FT ³	0.034	M ³
WT. EMPTY (SHIPPING WT.)	285	LBS	129	KGS
WT. FULL OF WATER (TEST WT.)	360	LBS	163	KGS
OPERATING WT.	290	LBS	131	KGS
1	ISSUED FOR CONSTRUCTION		OCT 21/05	AF
REV.	DESCRIPTION		DATE	BY

		TITLE: F-2 FUEL GAS FILTER 6 5/8" O.D. X 48 1/2" S/FOF	
DRAWN BY: ALLEN FOO		FOR: TOROMONT PROCESS SYSTEMS	
CHKD. BY: W. YU		DATE: OCT 21, 2005	
APPR. BY: W. YU		SCALE: 1 1/2" = 1'-0"	
CUST. PO No		W.O. No: 80349401	
		DWG. No: 80349-401	SHEET No 1 OF 1
			REV 1