

345 Carlingview Drive Toronto, Ontario M9W 6N9 Tet.: 416,734,3300 Fax: 416,231,1626 Toll Free: 1.877,682,8772

www.tssa.org

July 05, 2017

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

Service Request Type: BPV-Fitting Registration

Service Request No.: 2106880 Your Reference No.: R-0690

Registered to: COLTON INDUSTRIES INC

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.: 0H19492.5

Main Design No.: Dwg. No. R-0690A, R-0690B, R-0690C All Rev. 0, 10"DIA/6"DIA/8"DIA 150 lb

Separator/Flanged Flash Vessels

Expiry Date: 05-Jul-2027

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

Mark Valcic P. Eng. Engineer Specialist BPV Tel.: 416-734-3494

Fax: 416-231-1626

Email: mvalcic@tssa.org



PV 09553 (06/04)

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



STATUTORY DECLAR Registration of Fittings	,	~				
I. KEVIN FANE, PRESIDENT		41				
(Name and Position, e.g. President, Plant Manager, Chief	Engineer)					
of COLTON INDUSTRIES		31				
(Name of Manufacturer)						
Located at 40 CORSTATE AVE., VAUGHAN, ONTARIO, CANADA L4K 4X2	888-300-9155	888-300-9160				
(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 SECTION VIII, DIVISION 1						
(Title of recognized North American Standard) which specifies the dimensions, materials of construction, pressure/temperature rating	s. identification marki	ing the fittings and service:				
or are not covered by the provisions of a recognized North American standard as supported by the attached data which is pressure/temperature ratings and the basis for such ratings, the marking of the f	and are therefore mentifies the dimensi	nanufactured to comply with ions, material of construction,				
I further declare that the manufacture of these fittings is controlled by a quality system in		nents of ISO:9001:2008				
which has been verified by the following authority, QAS INTERNATIO						
The items covered by this declaration, for which I seek registration, are category H - Flash ta	inks, Separator	type fittings. In support of				
this application, the following information and/or test data are attached as follows: SCOPE OF CRN, DRAWING R-0690A, R-0690B, R-0690C, DESIGN CALCULATION	ONE					
(drawings, calculations, test reports, etc.)	ONS					
(urannigs, calculations, test reports, etc.)						
Declared before me at in the	iolity	of Drham				
the 24th day of Novembra 2016.						
Commissioner for Oaths:		11				
Vida America	_					
(Printed name)	/)/	1				
	11	The				
(Signature)	(Signature of	Declarer)				
FOR OFFICE USE ONLY	1	Company of the second of the second				
To the best of my knowledge and belief, the application meets the requirements of the	Standards	Boilers and				
Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and	and Safety	Pressure Vessels				
CSA Standard B51 and is accepted for registration in Category	Authority	Safety Program				
CRN: 0H19492.5	REG	ISTERED				
Registered by: MANIE VALCIC, P. ENG	C.R.N.:	174423				
Dated: July 5, No17	Signed:	wee-				
NOTE: This registration expires on July 5, 2027	Date:	143, 617				

COLTON INDUSTRIES

40 CORSTATE AVENUE VAUGHAN, ONTARIO L4K 4X2, CANADA

SCOPE OF CRN REGISTRATION

Product Description	Colton Drawing No.	Part Number	Material Spec. (Note 3)	Design Code	Size	End Connection	MAWP at Temp. (Note 2)	MDMT
Separator	R-0690A	MSF-150S	Carbon Steel, SA105, SA53- E/B, SA234-WPB, SA36	ASME Section VIII Division 1	NPS 3" In/Out x 10.75" OD Shell	150 Lb. RF Flanged (Note 1)	285 psig at 100F, 260 psig at 200F, 230 psig at 300F, 200 psig at 400F, 170 psig at 500F	- 20F
Flash Vessel	R-0690B	FT6-150	Carbon Steel, SA105, SA53- E/B, SA234-WPB, SA36	ASME Section VIII Division 1	NPS 2-1/2" In/Out x 6.63" OD Shell	150 Lb. RF Flanged (Note 1)	285 psig at 100F, 260 psig at 200F, 230 psig at 300F, 200 psig at 400F, 170 psig at 500F	- 20F
Flash Vessel	R-0690C	FT8-150	Carbon Steel, SA105, SA53- E/B, SA234-WPB, SA36	ASME Section VIII Division 1	NPS 4" In/Out x 8.63" OD Shell	150 Lb. RF Flanged (Note 1)	285 psig at 100F, 260 psig at 200F, 230 psig at 300F, 200 psig at 400F, 170 psig at 500F	- 20F

Note 1: Flanges with a pressure class greater than class 150 Lb. may be used but in all cases the pressure-temperature ratings are limited to the values stated in the "MAWP at Temp." column above.

Note 2: Per Section 2.1 of ASME B16.5 linear interpolation between values is permitted.

Note 3: SA106-B may substitute for SA53-E/B. SA516-70 may substitute for SA36.

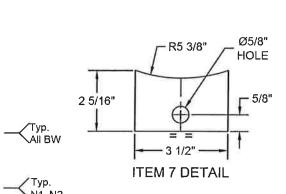


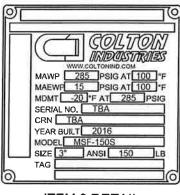


	Bill of Materials						
Item	Description	Material	Qty				
1	SHELL	10" SCH. 40 WELDED SA53-E/B C.STEEL PIPE X 15.25" LG.	1				
2	HEADS	10" SCH. 40 SA234-WPB C.STEEL WELD CAP	2				
3	N1, N2 FLANGE	3" 150 LB. RFSO SA105 C.STEEL	2				
4	N1, N2 PIPE	3" SCH. 40 SA53-E/B C.STEEL PIPE X 10.38" LG	2				
5	N3, N4 CPLG	2" 3000 LB. SA105 C.STEEL HALF CPLG.	2				
6	INTERNAL BAFFLE	CARBON STEEL - SEE SHEET 2	1				
7	SUPPORT PLATE	1/4" THK. SA36 C.STEEL - SEE DETAIL	2				
8	GUSSET PLATE	1/4" THK. SA36 C.STEEL - SEE DETAIL	- 4				
9	NAMEPLATE	1/8" SA36 C.STEEL BRACKET C/W NAMEPLATE IN ACCORDANCE WITH UG-116.	1				

Id baffle to shell pipe, front and k, at both top and bottom, ore attaching heads.

N2)





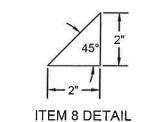
ITEM 9 DETAIL

MAWP stamped on nameplate shall be limited by 150 lb. ANSI flange, SA105 pressure rating and temperature in accordance with table II-2-1.1 of ASME B16.5

ASIVIE D 10.3.				
Pressure	Temperature			
285 psig	100 °F			
260 psig	200 °F			
230 psig	300 °F			
200 psig	400 °F			
170 psig	500 °F			

Chart Notes:

- 1. Per section 2.1 of ASME B16.5 linear interpolation between values is permitted.
- 2. If not specified by customer MAWP on nameplate stamped 285 psig at 100 F.



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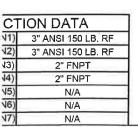
N1, N2



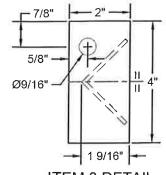
Boilers & Pressure Vessels

- 1. All dimensions are in inches. SI units if provided are in brackets.
- 2. All nozzle bolt holes straddle the major centerlines unless specifically noted.
- 3. All nozzle gasket surfaces require a serrated finish per ASME B16.5.
- All piping/nipples shall be per ASME B36.10 (latest), all fittings shall be per ASME B16.9 (latest). all flanges shall be per ASME B16.5 (2013), B16.47 (2011) and all couplings shall be per ASME B16.11 (latest).
- 5. All welds to be neat in appearance, free of slag and other debris.
- 6. Item to be cleaned of scale, oil, weld splatter and all foreign matter prior to hydrostatic test.
- 7. Inside nozzle corners to have a minimum $\frac{1}{3}$ " radius.
- 8. Impact test exempt per UCS-66.
- 9. Fabricator to be certified to CSA-B51. Fabricator shall be authorized for shop fabrication of pressure vessels per ASME Section VIII, Div.1.

Design Pressure: 285/FV psig at 500F.
MAWP: See Chart (Limited by ASME B16.5 150 Lb. Flange Rating) MAP: 285 sig at 100F (Limited by ASME B16.5 150 Lb. Flange Rating) Safety Authority



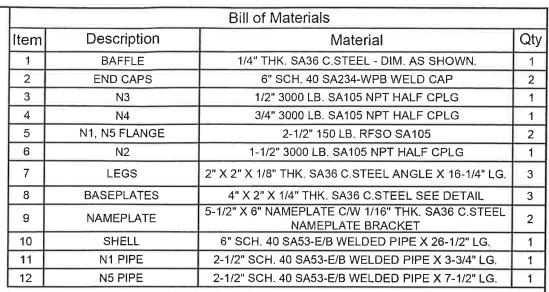
١		REV.		DESCRIPTION		DATE	INITIALS
	UNIESS OTHERWISE NOTED 1. DIMENSIONS ARE IN INCHES. IF USED SI UNITS ARE IN () BRACKETS. 2. TOLERANCES FRACTIONAL: +/- 118" DECIMALS: XX +/02 XXX +/005	SEPARATOR MODEL MSF-150S WORK ORDER TBA A0 CORST VAUGHARA CANADA I			COLTON INDUSTRIES ORSTATE AVE. GHAN, ONTARIO ADA L4K 4X2		
	CONTAINED IN THE DRAWING IS THE SOLE PROPERTY OF COLTON INDUSTRIES ANY REPRODUCTION IN PART	DRAWN SI CHECKE KF	ED BY	B SCALE 1:7	PH: 1-888-300-9155 FAX: 1-888-300-9160 WWW.COLTONIND.COM		60
	OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF COLTON INDUSTRIES IS DATE 23		09/2016	R-0690A	REV. 0	SHEE	of 2



ITEM 8 DETAIL

R1 7/16" -2 7/8"

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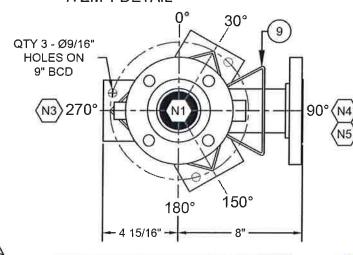


Notes:

- 1. All dimensions are in inches. SI units if provided are in brackets.
- 2. All nozzle bolt holes straddle the major centerlines unless specifically noted.
- 3. All nozzle gasket surfaces require a serrated finish per ASME B16.5.
- 4. All piping/nipples shall be per ASME B36.10 (latest), all fittings shall be per ASME B16.9 (latest), all flanges shall be per ASME B16.5 (2013), B16.47 (2011) and all couplings shall be per ASME B16.11 (latest).
- 5. All welds to be neaf in appearance, free of slag and other debris.
- 6. Item to be cleaned of scale, oil, weld splatter and all foreign matter prior to hydrostatic test.
- 7. Inside nozzle corners to have a minimum 1/8" radius.
- 8. Impact test exempt per UCS-66.

REV.

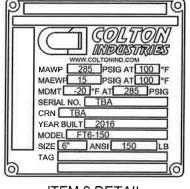
- 9. Fabricator to be certified to CSA-B51. Fabricator shall be authorized for shop fabrication of pressure vessels per ASME Section VIII, Div.1.
- Design Pressure: 285/FV psig at 500F. MAWP: See Chart (Limited by ASME B16.5 150 Lb. Flange Rating) MAP: 285 psig at 100F (Limited by ASME B16.5 150 Lb. Flange Rating)



MAWP stamped on nameplate shall be limited by 150 lb. ANSI flange, SA105 pressure rating and temperature in accordance with table II-2-1.1 of ASME B16.5

ACIVIE B 10:0:				
Pressure	Temperature			
285 psig	100 °F			
260 psig	200 °F			
230 psig	300 °F			
200 psig	400 °F			
170 psig	500 °F			





ITEM 9 DETAIL

DESCRIPTION

R-0690B

Chart Notes:

2-1/2" 150 Lb. RF

1-1/2" 3000 LB. NPT

1/2" 3000 LB. FNPT

3/4" 3000 LB, FNPT

2-1/2" 150 Lb. RF

- 1. Per section 2.1 of ASME B16.5 linear interpolation between values is permitted.
- 2. If not specified by customer MAWP on nameplate stamped 285 psig at 100 F.

TRUCTION DATA Technical Standards & Safety Autho Boilers & Pressure Vess Safety Program

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES, IF USED SI UNITS ARE IN () BRACKETS.

2. TOLERANCES RACTIONAL: +/- 1/8" MALS: XX +/- .02 .XXX +/- .005

THE INFORMATION CONTAINED IN THE DRAWING IS THE SOLE PROPERTY OF COLTON INDUSTRIES. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF COLTON INDUSTRIES IS PROHIBITED.

6" DIA. 150 LB, RF FLANGED FLASH VESSEL

FT6-150 WORK ORDER TBA DRAWN BY DRAWING SIZE SI В CHECKED BY SCALE KF 1:6 DRAWING NO.

26/09/2016

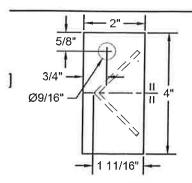
COLTON INDUSTRIES

DATE

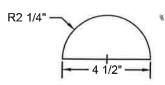
INITIALS

40 CORSTATE AVE VAUGHAN, ONTARIO CANADA L4K 4X2 PH: 1-888-300-9155 FAX: 1-888-300-9160 WWW.COLTONIND.COM

REV. SHEET 0 1 of 1



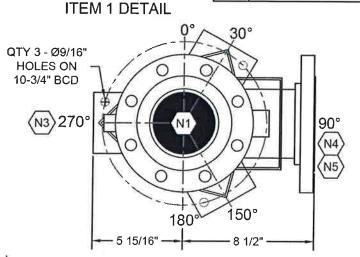
ITEM 8 DETAIL



	Bill of Materials					
Item	Description	Material	Qty			
1	BAFFLE	3/8" THK. SA36 C.STEEL - DIM. AS SHOWN.	1			
2	END CAPS	8" SCH. 40 SA234-WPB WELD CAP	2			
3	N3	1/2" 3000 LB. SA105 NPT HALF CPLG	1			
4	N4	1" 3000 LB. SA105 NPT HALF CPLG	1			
5	N1, N5 FLANGE	4" 150 LB. RFSO SA105	2			
6	N2	2" 3000 LB. SA105 NPT HALF CPLG	1			
7	LEGS	2" X 2" X 1/8" THK. SA36 C.STEEL ANGLE X 17-1/2" LG.	3			
8	BASEPLATES	4" X 2" X 1/4" THK. SA36 C.STEEL SEE DETAIL	3			
9	NAMEPLATE	5-1/2" X 6" NAMEPLATE C/W 1/16" THK. SA36 C.STEEL NAMEPLATE BRACKET	2			
10	SHELL	8" SCH. 40 SA53-E/B WELDED PIPE X 26-1/2" LG.	1			
11	N1 PIPE	4" SCH. 40 SA53-E/B WELDED PIPE X 3-1/4" LG.	1			
12	N5 PIPE	4" SCH. 40 SA53-E/B WELDED PIPE X 7-7/8" LG.	1			

Notes:

- 1. All dimensions are in inches. SI units if provided are in brackets.
- 2. All nozzle bolt holes straddle the major centerlines unless specifically noted.
- 3. All nozzle gasket surfaces require a serrated finish per ASME B16.5.
- 4. All piping/nipples shall be per ASME B36.10 (latest), all fittings shall be per ASME B16.9 (latest), all flanges shall be per ASME B16.5 (2013), B16.47 (2011) and all couplings shall be per ASME B16.11 (latest).
- 5. All welds to be neat in appearance, free of slag and other debris.
- Item to be cleaned of scale, oil, weld splatter and all foreign matter prior to hydrostatic test.
- 7. Inside nozzle corners to have a minimum $\frac{1}{8}$ " radius.
- 8. Impact test exempt per UCS-66.
- 9. Fabricator to be certified to CSA-B51. Fabricator shall be authorized for shop fabrication of pressure vessels per ASME Section VIII, Div.1.
- Design Pressure: 285/FV psig at 500F.
 MAWP: See Chart (Limited by ASME B16.5 150 Lb. Flange Rating)
 MAP: 285 psig at 100F (Limited by ASME B16.5 150 Lb. Flange Rating)



MAWP stamped on nameplate shall be limited by 150 lb. ANSI flange, SA105 pressure rating and temperature in accordance with table II-2-1.1 of ASME B16.5.

TIGHTE B 10.0.			
Pressure	Temperature		
285 psig	100 °F		
260 psig	200 °F		
230 psig	300 °F		
200 psig	400 °F		
170 psig	500 °F		





ITEM 9 DETAIL

DESCRIPTION

Chart Notes:

- 1. Per section 2.1 of ASME B16.5 linear interpolation between values is permitted.
- 2. If not specified by customer MAWP on nameplate stamped 285 psig at 100 F.

85 psig at 100 F.
THIS IS PART

CRN OHIQ4 92.5
Technical Standards & Safety
Boilers & Pressure V
Safety Program

OTLESS OTHERWISE NOTED

MENSIONS ARE IN
MICHES IF USED SI UNITS
ARE IN (1) BRACKETS.
2. TOLERANCES
FRACTIONAL: +/- 1/8"

XXX +/- .005
THE INFORMATION CONTAINED
IN THE SOLE
PROPERTY OF COLTON

IN THE DRAWING IS THE SOLE PROPERTY OF COLTON RUBBERS ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF COLTON INDUSTRIES IS PROHIBITED.

D	TITLE 8" DIA	. 150 LB. RF
	FLANC	SED FLASH VESSEL
	MODEL	
	FT8-150	
	WORK ORDER	
	TBA	
,	DRAWN BY	DRAWING SIZE
s	SI	В
	CHECKED BY	SCALE
	KF	1:6
	DATE	DRAWING NO

COLTON INDUSTRIES

DATE

INITIALS

40 CORSTATE AVE. VAUGHAN, ONTARIO CANADA L4K 4X2 PH: 1-888-300-9150 FAX: 1-888-300-9160 WWW.COLTONIND.COM

CHECKED BY SCALE WWW.COLTONIND.COM

KF 1:6

DATE DRAWING NO. REV. SHEET

26/09/2016 R-0690C 0 1 of 1

7RUCTION DATA 4" 150 Lb. RF 2" 3000 LB. NPT 1/2" 3000 LB. FNPT 1" 3000 LB. FNPT 4" 150 Lb. RF