



Notes:

- 1) Tritium cell to be assembled by qualified personnel only
- 2) Leak/pressure test to less than 10^{-9} atm cc/s in reverse mode with 400 psi internal pressure
- 3a) Torque 1/4-28 12 pt screws to 150 in-lbf
- 3b) Torque 8-32 screws to 85 in-lbf
- 4) Minimum design metal temperature is -370F (50K)
- 5) Maximum design temperature 120F (322K)
- 6) Design Pressure 250 psi

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	VENDOR
1	1	TGT-103-1000-0010	Tritium Target Cell Block		
2	1	TGT-103-1000-0011	Fill Tube Weldment Assy	ER316L	
3	6	ANSI B18.3 - No. 8 - 32 UNC - 3/4 HS HCS	8-32 x .75 A286 HSHCS Safety Wire	SST 18-8	
4	1	TGT-103-1000-0100	Tritium Cell Entrance Window	ASTM B209 AL 7075-T651	
5	6	1-4-28x1-S	1/4-24 x 1 12pt Cap Screw Safety Wire	ASTM A 194 SST 18-8 (S30400)	
6	1	TGT-103-1000-0103	Valve Support Bracket	ASTM B209 AL 6061-T651	
7	2	ANSI B18.3 - 10-32 UNF - 0.625 HS HCS	HSHCS 10-32 x .625	SST 18-8	
8	1	GA-0133AL	1.33 Al CF Gasket	Aluminum 1100-H14	Lesker Vacuum
9	2	SHCS 10-32x0.75 A286	SHCS 10-32x0.75 A286	A286	
10	1	GA-0275AL	Al Gasket 2.75 CF	Aluminum 1100-H14	
15	2	ANSI B18.22.1 - No. 10 - Regular - Type B	#10 Plain Washer A286	A286	

DOCUMENT CONTROL STAMP	DIM & TOL PER ASME Y14.5 - UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±1/64 .0010 ±0.01 ±0.5° XXX±0.005	APPROVALS	DATE	JEFFERSON LAB TARGET GROUP THOMAS JEFFERSON NATIONAL ACCELERATOR FACILITY NEWPORT NEWS VIRGINIA U.S. DEPARTMENT OF ENERGY
MATERIAL N/A	THIRD ANGLE PROJECTION	DRAWN D. Meekins	1/8/2014	Hall A Tritium Target Target Cell Cell Assembly
FINISH N/A UNLESS OTHERWISE NOTED		CHECKED		SIZE E
DEBUR AND BREAK ALL SHARP EDGES ACCEPT AS NOTED		APPROVED		DWG NO TGT-103-1000-0012
Do Not Scale Drawing		APPROVED		SCALE 1:1 ASSY. NO. SHEET 1 OF 1