

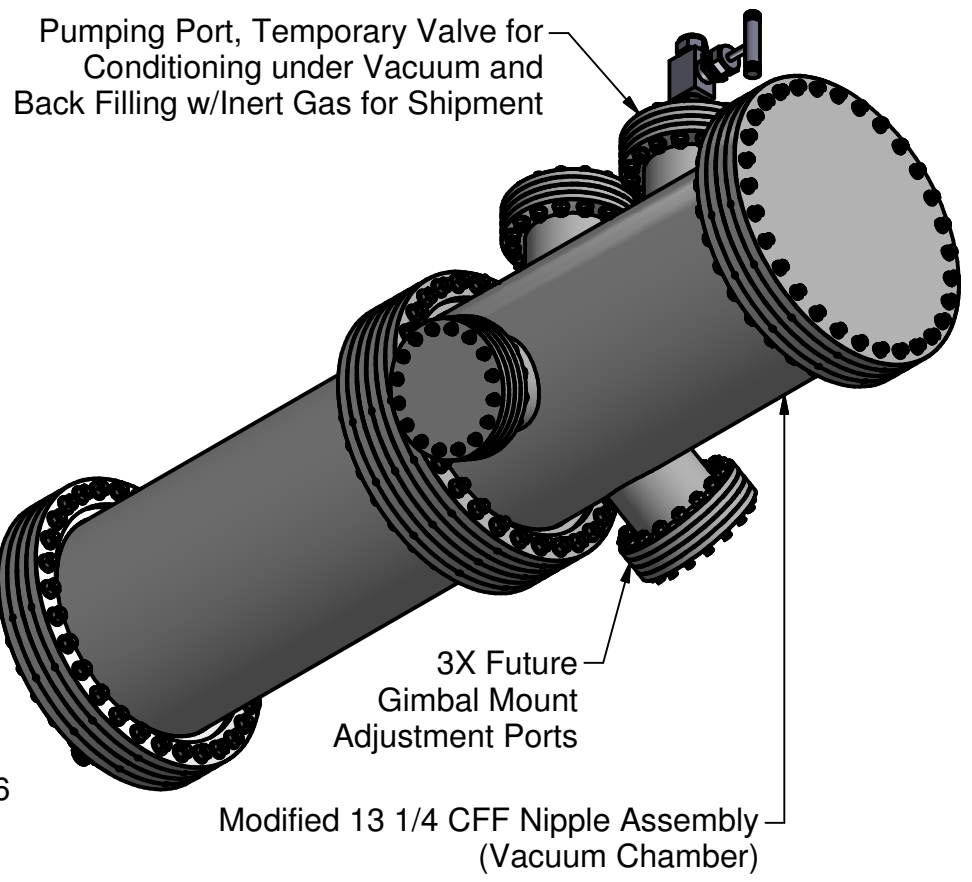
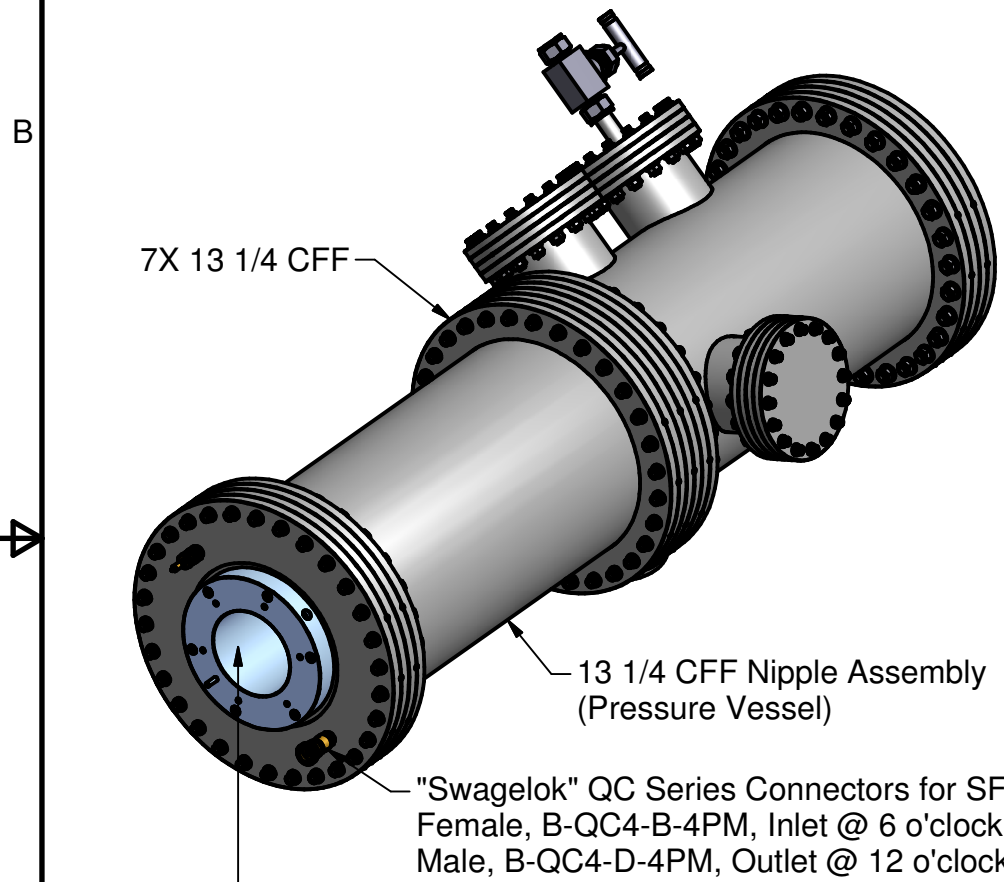


PARTS LIST

ITEM	QTY	PART #	DESCRIPTION
1	1	107917	Shaped Disc Insulator Test Module, BOM

REVISION HISTORY

REV	DESCRIPTION	DATE	APPROV
A	Rotated Vacuum Chamber 180 degrees, Added mounting holes to all 13 1/4 CFF's.	1/4/13	MC



Customer Supplied 300kV Receptacle

DRAWN	mcurtis	8/24/2012
CHECKED		
QA		
MFG		
APPROVED		
Material:		

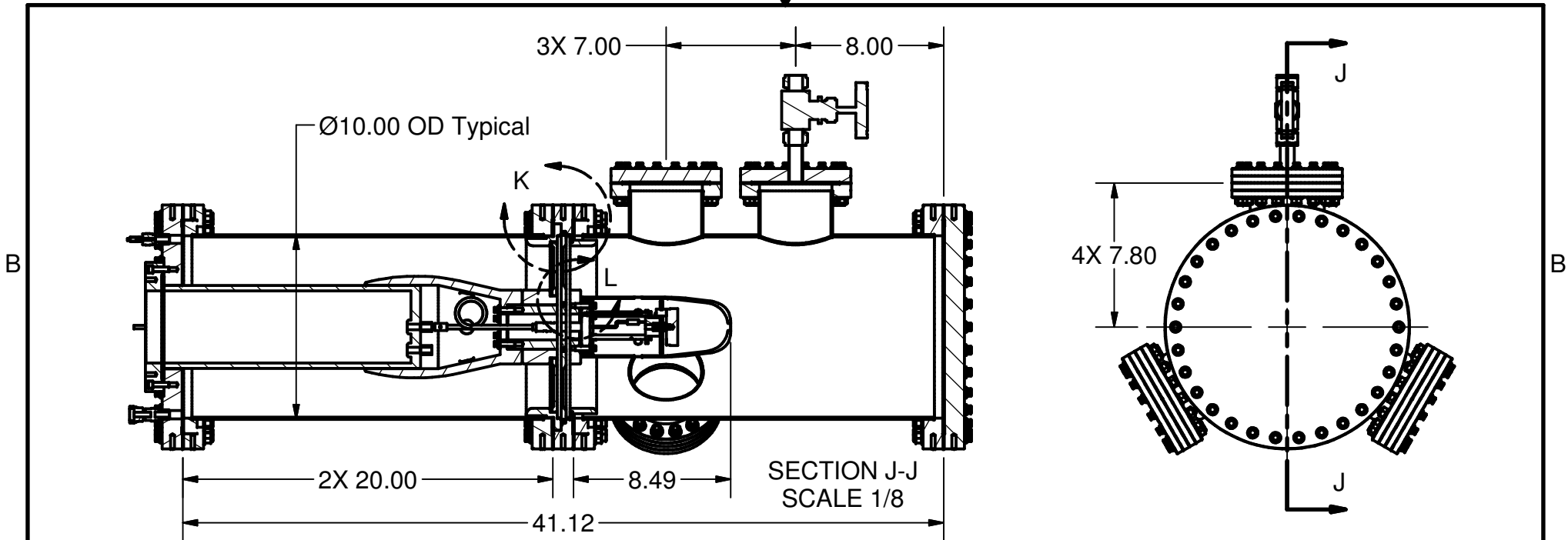
HeatWave Labs, Inc. 195 Aviation Way, Suite 100 P: 831-722-9081
 Watsonville, CA 95076 F: 831-722-5491
 www.cathode.com

Shaped Disc Insulator Test Module

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SIZE	Cage Code:	DWG NO	REV
A	1YAN4	107872	A
SCALE	1/8	SHEET 1 OF 4	





Notes:

1. All parts must be clean for UHV use prior to assembly per MP-264.
2. Assembly must be handled with good clean room practice per MP-220.
3. Vacuum chamber and Insulator assembly must be leak tight when assembled. It must pass a leak rate of 1×10^{-9} cc/sec Helium.
4. The vacuum chamber and insulator assemblies will be baked at 400 °C per HWL normal E-Gun processing. Once complete the chamber will be back filled with dry Ni and the assemblies will be removed for final assembly. This process must be completed in one day as to minimize the exposure of these components to air. Once assembled it will be tested for leak tight condition and baked at 180 °C. This temperature is the maximum for the Viton O-rings in the assembly to prevent damage. Once complete the assembly will be back filled with dry Ni and removed. Within an hour the assembly will be double bagged in dry Ni for transport.
5. The pressure vessel will not be processed with a bake but will be cleaned and handled as if for UHV use.
6. Estimated operation:
 10V, 14.5A @ 1000 °C
 22V, 21.0A @ 1200 °C

DRAWN mcurtis	8/24/2012
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MFG	
APPROVED	

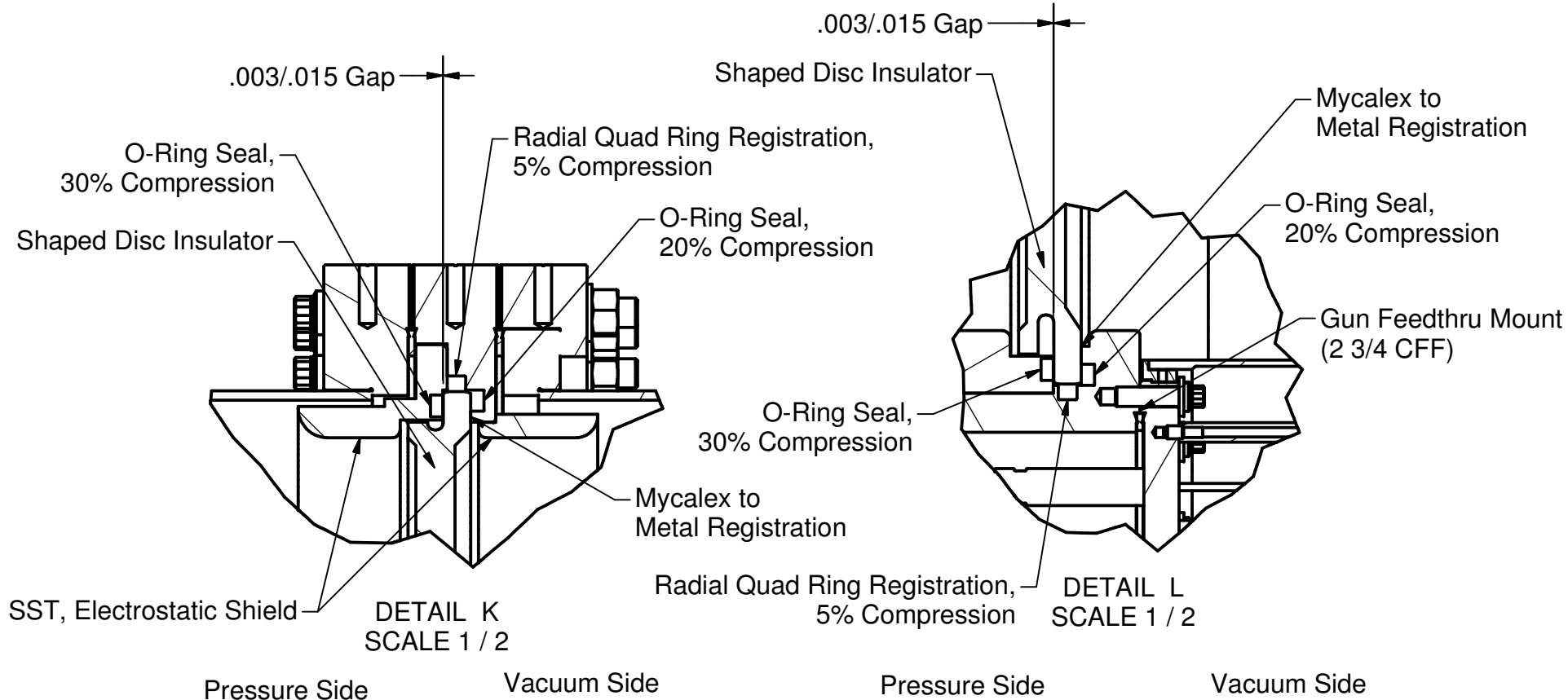
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SCALE 1/8	SHEET 2 OF 4		

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B

B



O-Rings & Quad Rings not Shown in these Views for Clarity

A

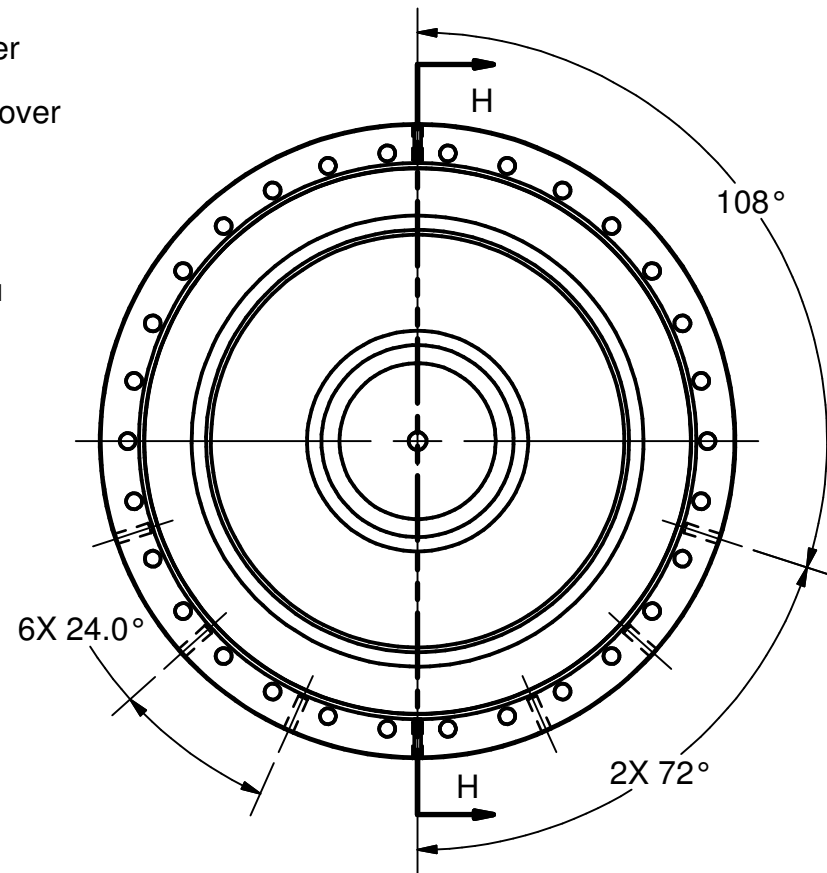
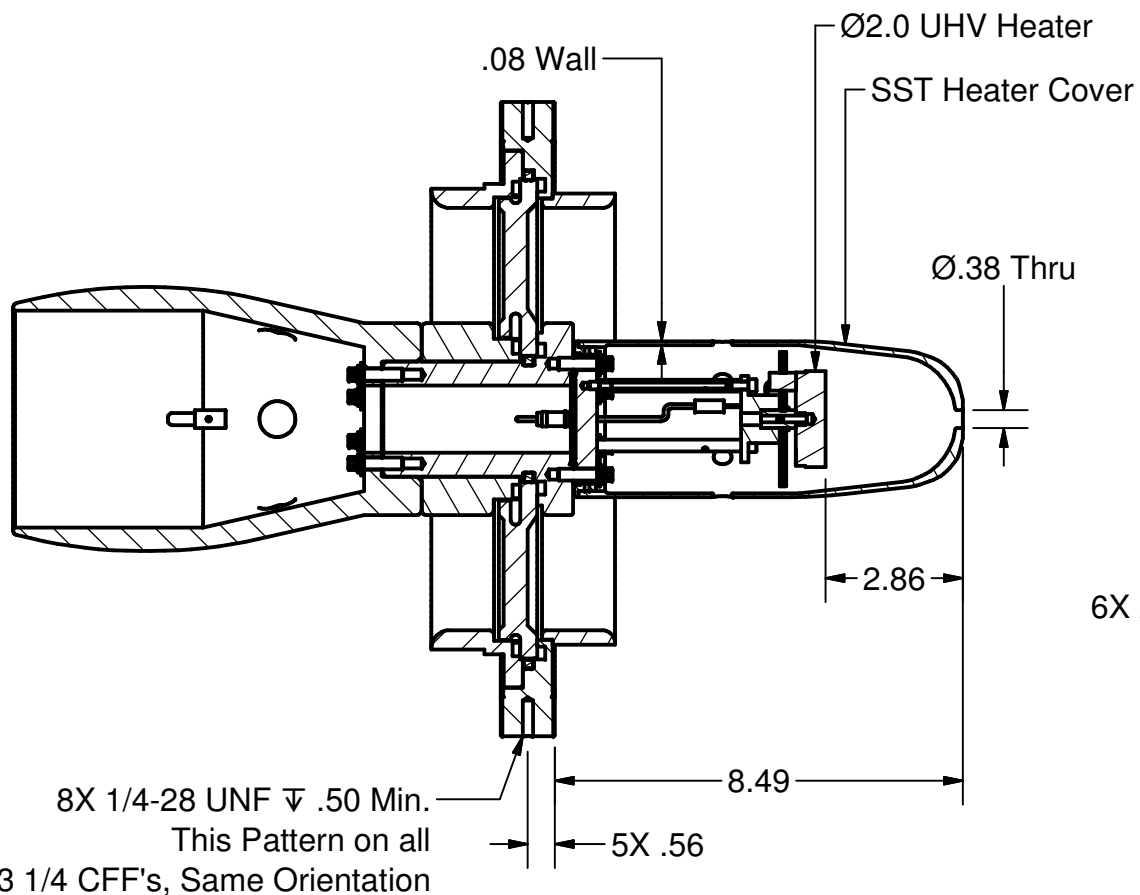
A

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MFG	
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SECTION H-H
SCALE 1 / 4

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		Shaped Disc Insulator Test Module	
SIZE A	Cage Code: 1YAN4	DWG NO 107872	REV A
SCALE 1/4			SHEET 4 OF 4

