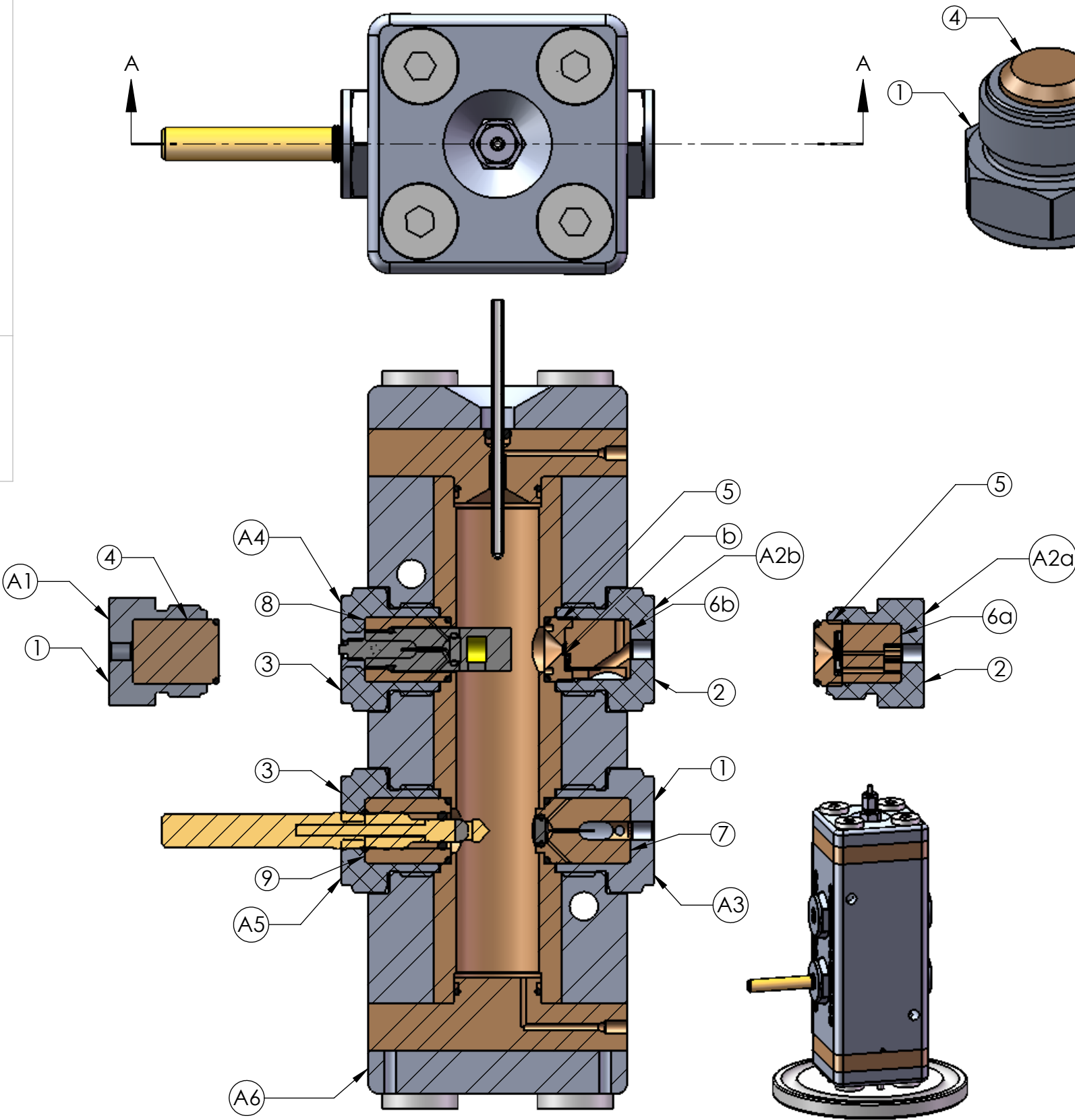


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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE			
A	Modified reference cell (vent holes)	12/30/09	HWJ
B	6B-added boss; 7-mod for 7x1.5mm O-ring	03/18/10	HWJ



SECTION A-A
SCALE 1 : 1.5

ASSEMBLY

e	1		CTech probe	
d	1		EquiTech probe	
c	1		Reference pellet	AgCl
b	1		DuraFET chip	Silicon
a	4		Viton O-ring (D90) w/Parbak	Viton D90 2-016 / Parback
9	1		CTech Nut	PEEK
8	1		EquiTech fitting	PEEK
7	1		Reference Pellet Housing	PEEK
6b	1		Support X	PEEK
6a	1		Pressure Plug	PEEK or 316 Stainless Steel
5	1		Ring Seal	PEEK or 316 Stainless Steel
4	1		HP Plug	PEEK
3	1		SS-12-PST (probes)	Swagelock SS-12-PST (316 SS)
2	1		SS-12-PST (DuraFET)	Swagelock SS-12-PST (316 SS)
1	1		SS-12-PST (Ref)	Swagelock SS-12-PST (316 SS)
A6	1		P/T Test Chamber	per 217jahaPTtestChamber.dwg
A5	1		C-Tech Plug Assembly	
A4	1		EquiTech Plug Assembly	
A3	1		Reference Plug Assembly	
A2b	1		DuraFET Chip Plug Assembly	
A2a	1		DuraFET/PCB Plug Assembly	
A1	1		Dummy Plug Assembly	
Item No.	Qty	Part No.	Description	Material Specification

Bill of Materials			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	APPROVALS DATE
Inspector		1 PLACE DIM ±.1/16 2 PLACE DIM ±.02 3 PLACE DIM ±.005 ANGLES ±1°	DRAWN Hans Jannasch 8/4/09
Shop Foreman		1. DIMENSIONS ARE IN INCHES	ENGINEER
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.	CHECKED
NEXT ASSY Description	NEXT ASSY Number	3. REMOVE BURRS AND SHARP EDGES .015 MAX.	PROJECT NO. 900918
		4. MACHINED FILLET RADII .0150-.030.	PROJECT Novel Sensors
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005	WEIGHT
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.	
Application		DO NOT SCALE DRAWING	

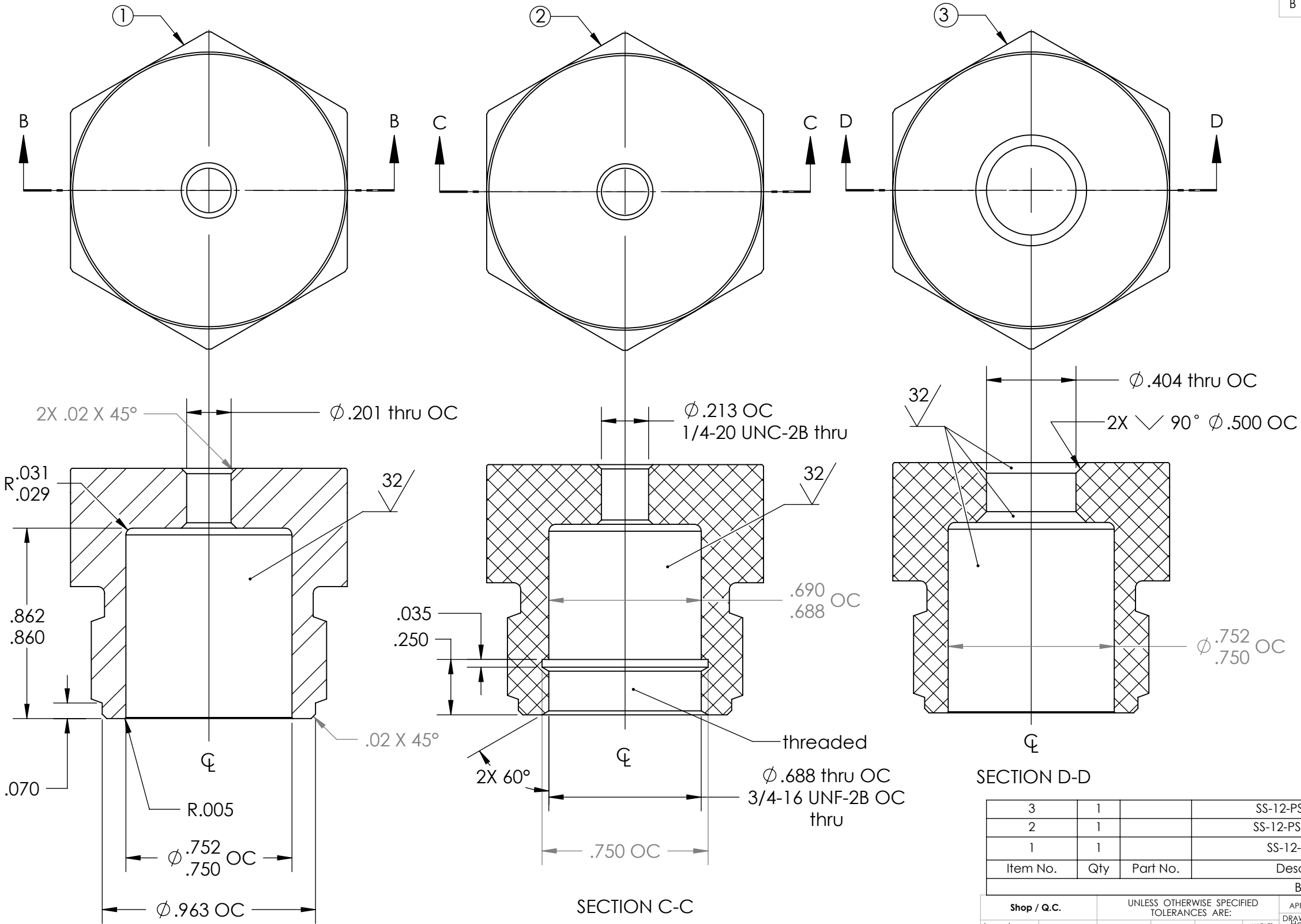
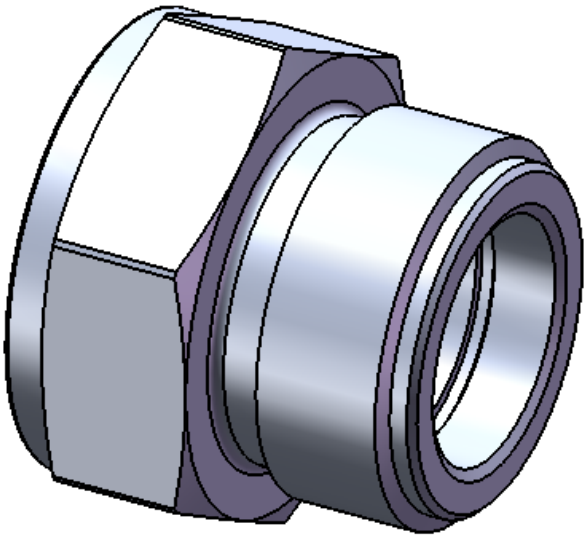
Monterey Bay Aquarium Research Institute
MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700

P/T Test Chamber Fittings

SIZE B	DWG. NO. 218jahaPTtestFittings	REV. B
SCALE 1:3	CAD FILE: Tornado/chem/SWfiles	SHEET 1 OF 5

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		
A	Modified reference cell (vent holes)	12/30/09	HWJ
B	6B-added boss; 7-mod for 7x1.5mm O-ring	03/18/10	HWJ



NOTE:
All dimensions not shown are same as in Part 1.
All parts have same OD thread recess per Part 1.
Without inserts, parts should easily screw into pressure chamber ports until hex heads bottom out.

3	1		SS-12-PST (probes)	Swagelock SS-12-PST (316 SS)
2	1		SS-12-PST (DuraFET)	Swagelock SS-12-PST (316 SS)
1	1		SS-12-PST (Ref)	Swagelock SS-12-PST (316 SS)
Item No.	Qty	Part No.	Description	Material Specification

Bill of Materials							
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS	DATE	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700  P/T Test Chamber Fittings SIZE B DWG. NO. 218jahaPTtestFittings REV. B SCALE 1:3 CAD FILE: Tornado/chem/SWfiles SHEET 2 OF 5
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Hans Jannasch 8/4/09	
Shop Foreman		1. DIMENSIONS ARE IN INCHES			ENGINEER		
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.			CHECKED		
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.					
		4. MACHINED FILLET RADII .0150-.030.			PROJECT NO. 900918		
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005			PROJECT Novel Sensors		
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.					
Application		DO NOT SCALE DRAWING			WEIGHT		

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P/T Test Chamber Fittings

SIZE B	DWG. NO. 218jahaPTtestFittings	REV. B
SCALE 1:3	CAD FILE: Tornado/chem/SWfiles	SHEET 2 OF 5

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		
A	Modified reference cell (vent holes)	12/30/09	HWJ
B	6B-added boss; 7-mod for 7x1.5mm O-ring	03/18/10	HWJ

D

C

B

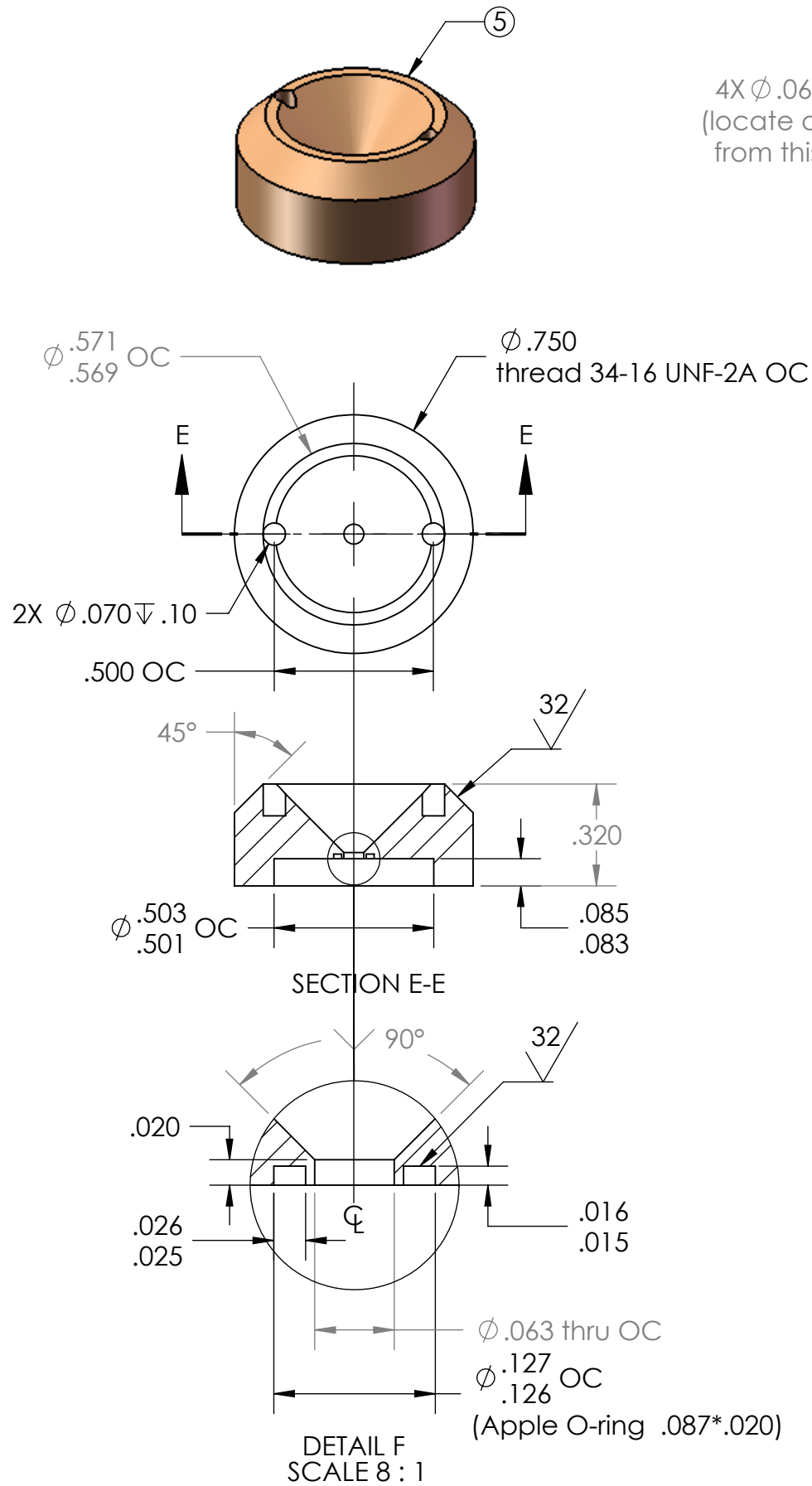
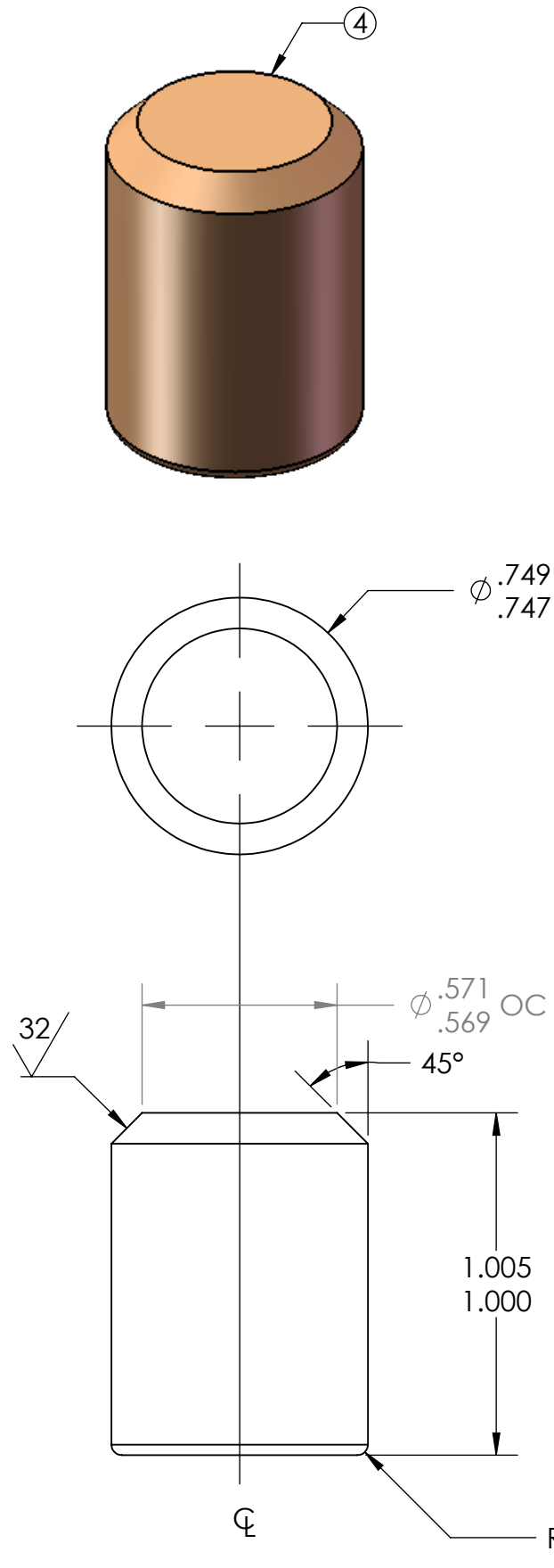
A

D

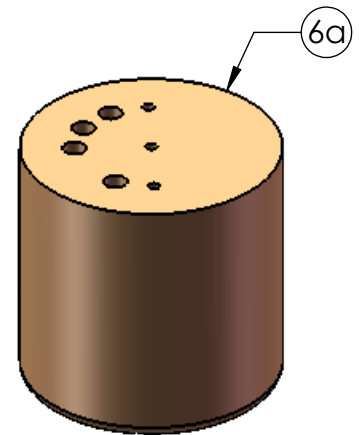
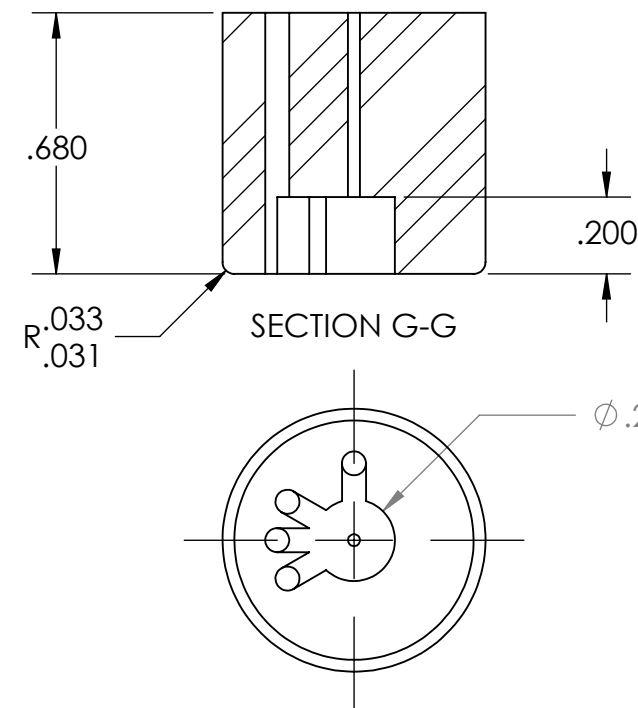
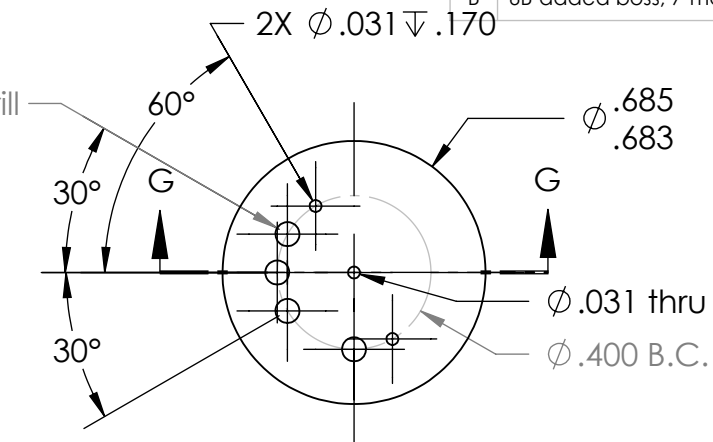
C

B

A



4X $\phi .063$ thru
(locate and drill
from this side)



6a	1		Pressure Plug	PEEK or 316 Stainless Steel
5	1		Ring Seal	PEEK or 316 Stainless Steel
4	1		HP Plug	PEEK
Item No.	Qty	Part No.	Description	Material Specification

Bill of Materials			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	APPROVALS DATE
Inspector		1 PLACE DIM $\pm 1/16$	2 PLACE DIM $\pm .02$
Shop Foreman		3 PLACE DIM $\pm .005$	ANGLES $\pm 1^\circ$
Engineer		1. DIMENSIONS ARE IN INCHES	DRAWN Hans Jannasch 8/4/09
		2. DIMENSION LIMITS HELD AFTER PLATING.	ENGINEER
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.	CHECKED
		4. MACHINED FILLET RADII .0150-.030.	PROJECT NO. 900918
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005	PROJECT Novel Sensors
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.	WEIGHT
Application		DO NOT SCALE DRAWING	

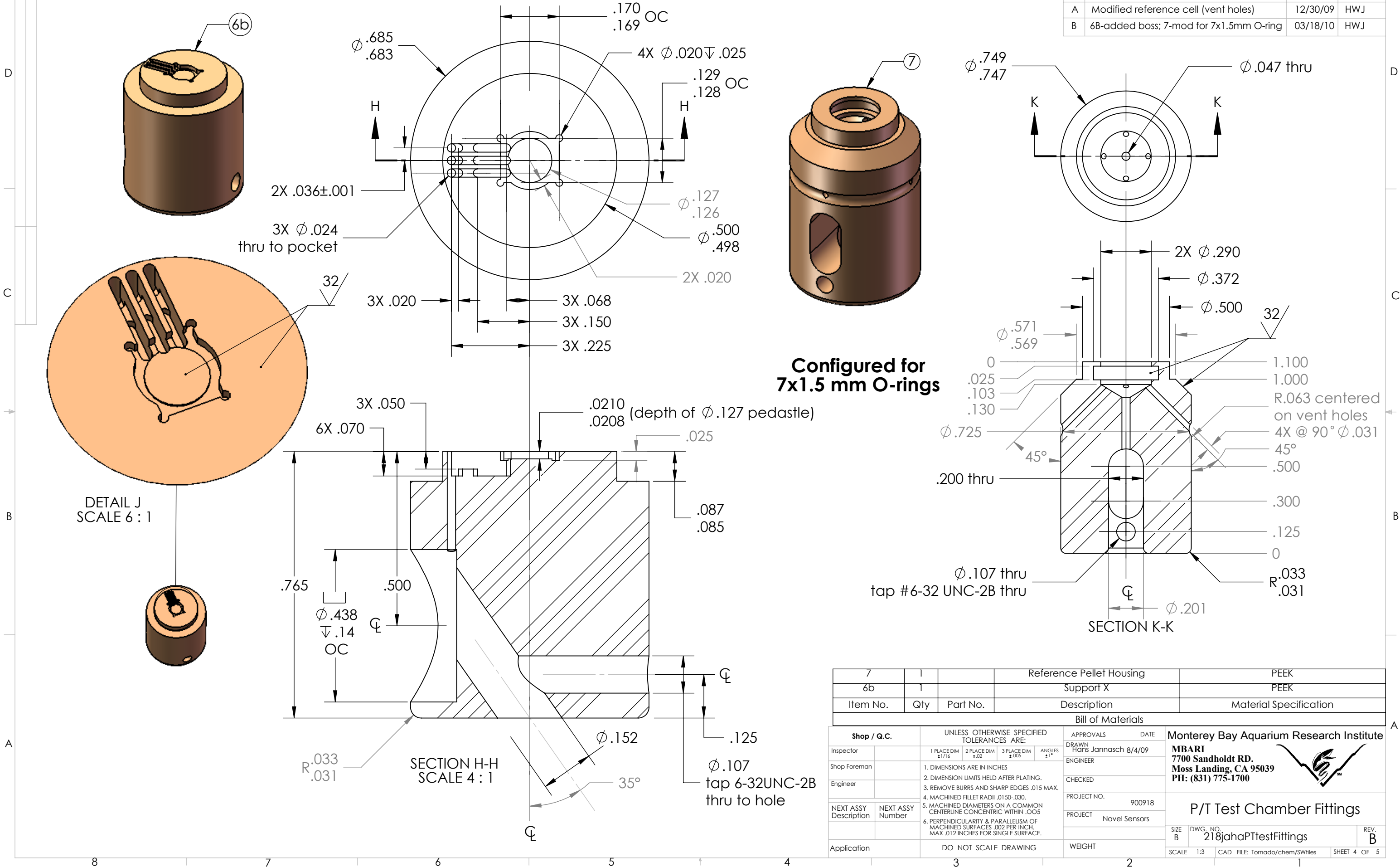
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P/T Test Chamber Fittings

SIZE B	DWG. NO. 218jahaPTtestFittings	REV. B
SCALE 1:3	CAD FILE: Tornado/chem/SWfiles	SHEET 3 OF 5

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE			
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B	6B-added boss; 7-mod for 7x1.5mm O-ring	03/18/10	HWJ



7	1		Reference Pellet Housing	PEEK	
6b	1		Support X	PEEK	
Item No.	Qty	Part No.	Description	Material Specification	
Bill of Materials					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°
Shop Foreman		1. DIMENSIONS ARE IN INCHES			DRAWN Hans Jannasch 8/4/09
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.			
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.			ENGINEER
		4. MACHINED FILLET RADII .0150-.030.			CHECKED
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005			PROJECT NO. 900918
NEXT ASSY Description	NEXT ASSY Number	6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.			PROJECT Novel Sensors
Application		DO NOT SCALE DRAWING		WEIGHT	
Monterey Bay Aquarium Research Institute					
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P/T Test Chamber Fittings					
SIZE B		DWG. NO. 218jahaPTtestFittings			REV. B
SCALE 1:3		CAD FILE: Tornado/chem/SWfiles			SHEET 4 OF 5

