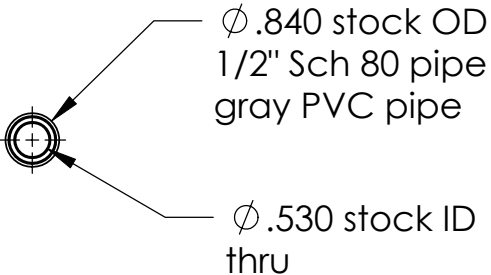
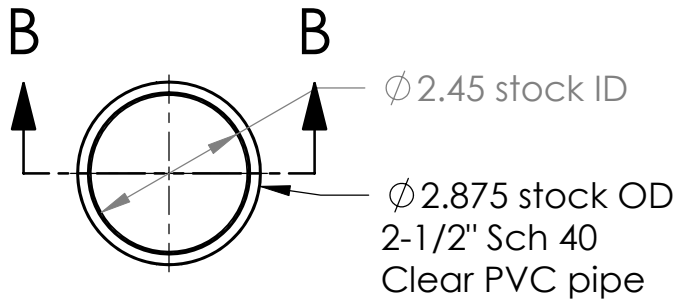
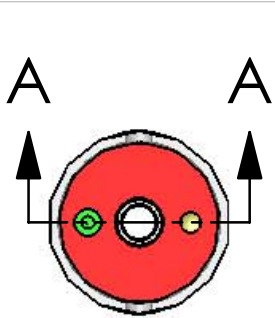


THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

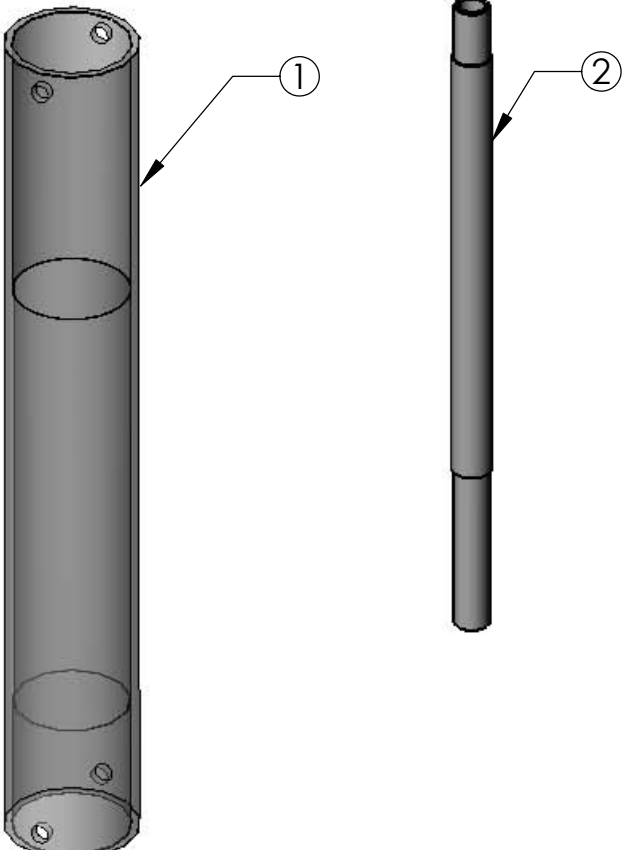
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		



2X ϕ 2.505
2.500
both ends

2X .500

.02 X 45°
both ends



O-Rings:
Inside: -116
Outside: -141
Membrane: -014

5	1		OS pump Bottom	1" PVC plate
4	1		OS pump Middle	1" PVC plate
3	1		OS pump Top	1" PVC plate
2	1		OS pump core	1/2" Sch 80 Gray PVC pipe
1	1		OS pump housing	2-1/2" Sch 40 Clear PVC pipe
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	
Inspector		1 PLACE DIM $\pm$ 1/16	2 PLACE DIM $\pm$.02	3 PLACE DIM $\pm$.005	ANGLES $\pm$ 1°	DRAWN Hans Jannasch	06/12/09	MBARI	
Shop Foreman		1. DIMENSIONS ARE IN INCHES				ENGINEER		7700 Sandholdt RD.	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.				CHECKED		Moss Landing, CA 95039	
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.				PROJECT NO.		PH: (831) 775-1700	
		4. MACHINED FILLET RADII .0150-.030.				PROJECT		PVC OsmoSampler Pumps	
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				NSF OsmoSamplers		(for Juan de Fuca 2009)	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				WEIGHT		SIZE B	
Application		DO NOT SCALE DRAWING						DWG. NO. 231jaha-pvcOS-JdF-2009	
								SCALE 1:3	
								CAD FILE: Tornado/chem/SWfiles	
								SHEET 1 OF 2	

SECTION A-A
SCALE 1 : 3

ASSEMBLY SECTION

2X @ 180° ϕ .397 thru
(both ends)

SECTION B-B
SCALE 1 : 3

2X ϕ .750
.748
(both ends)

Part 5: 19.0
Part 6: 27.0
Part 7: 19.0

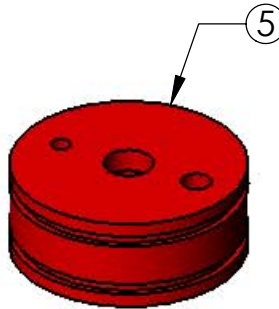
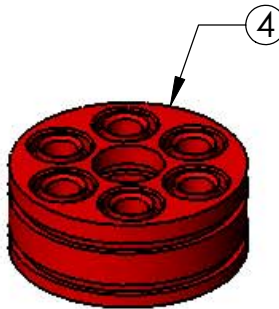
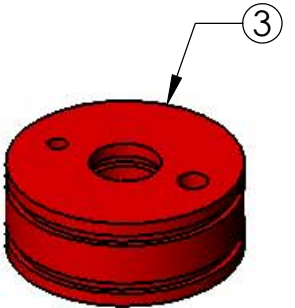
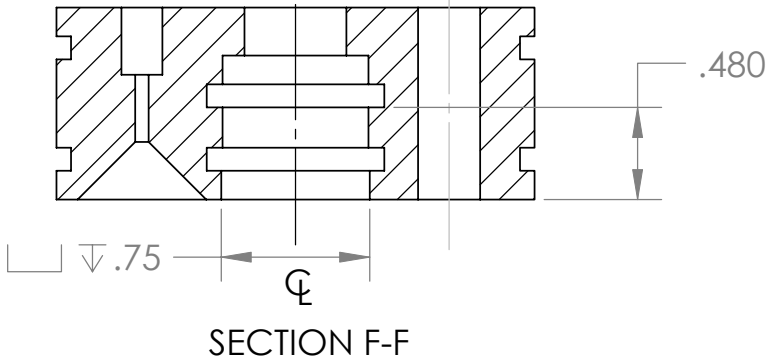
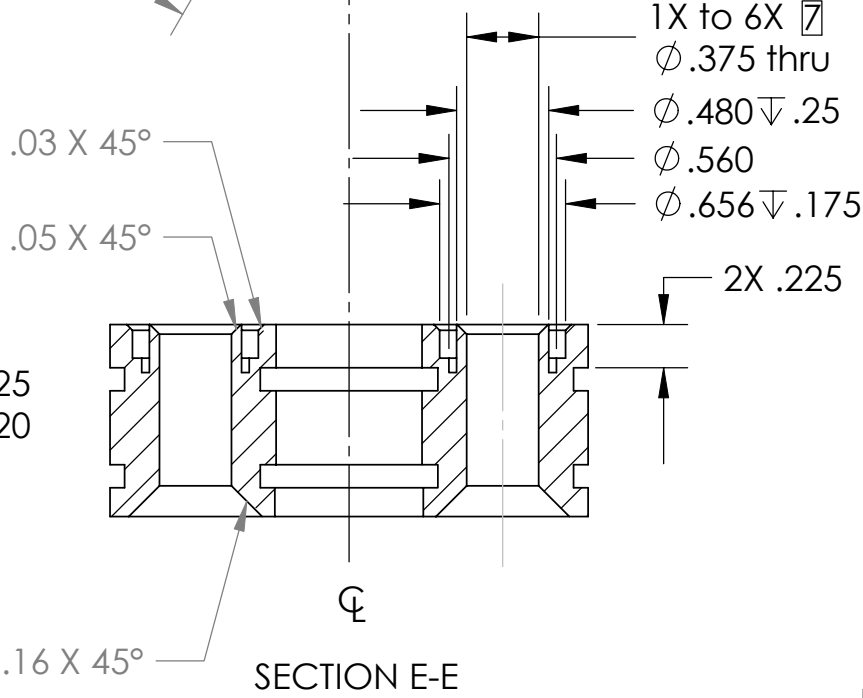
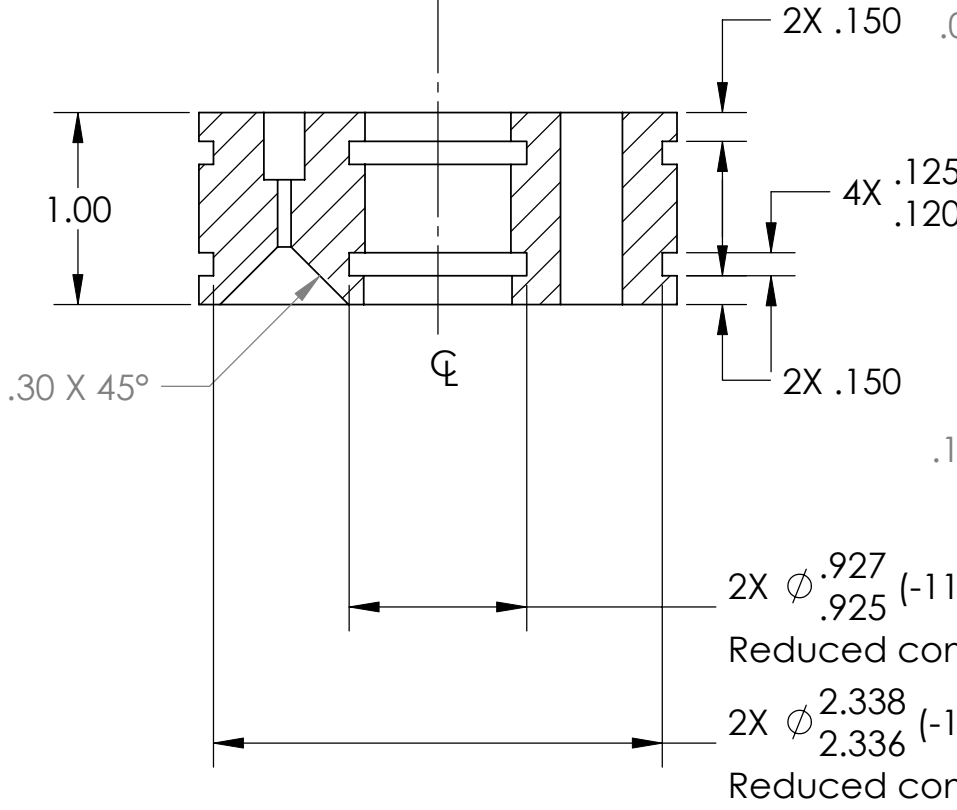
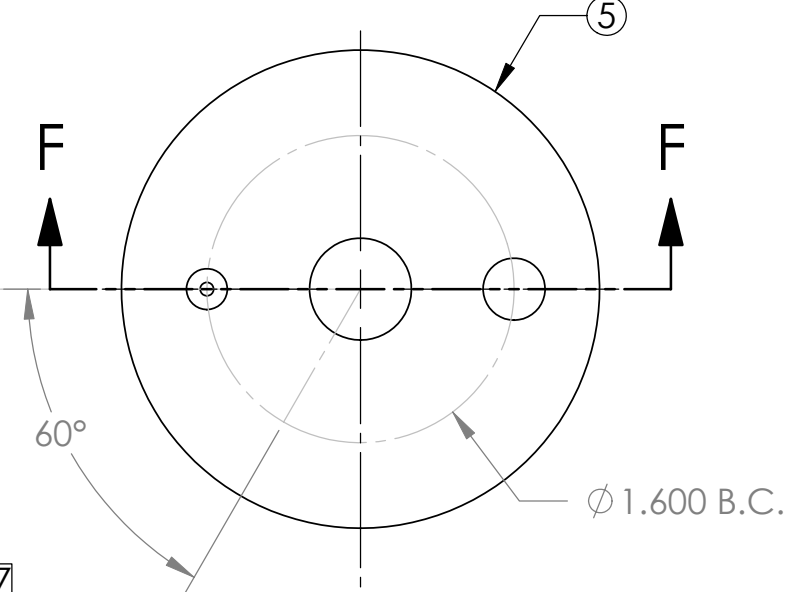
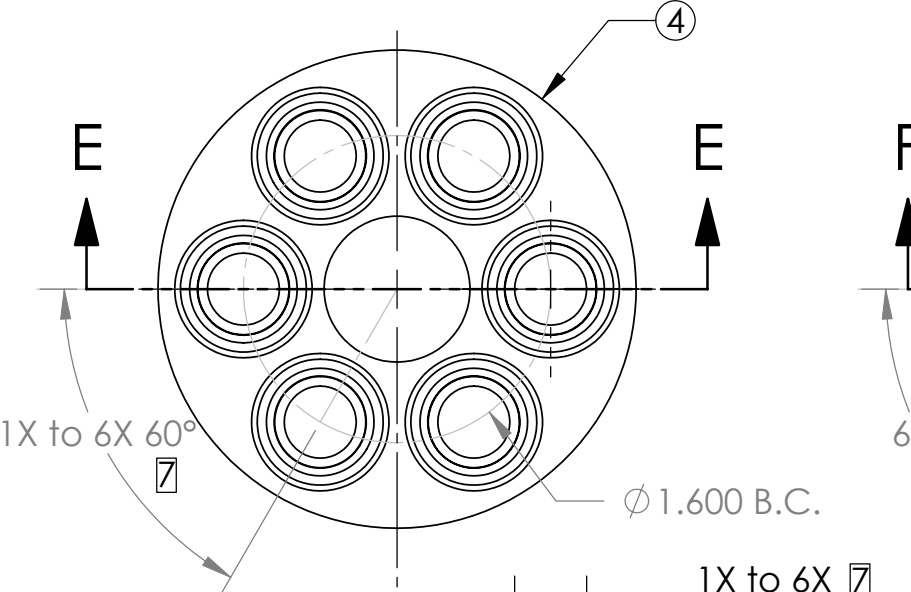
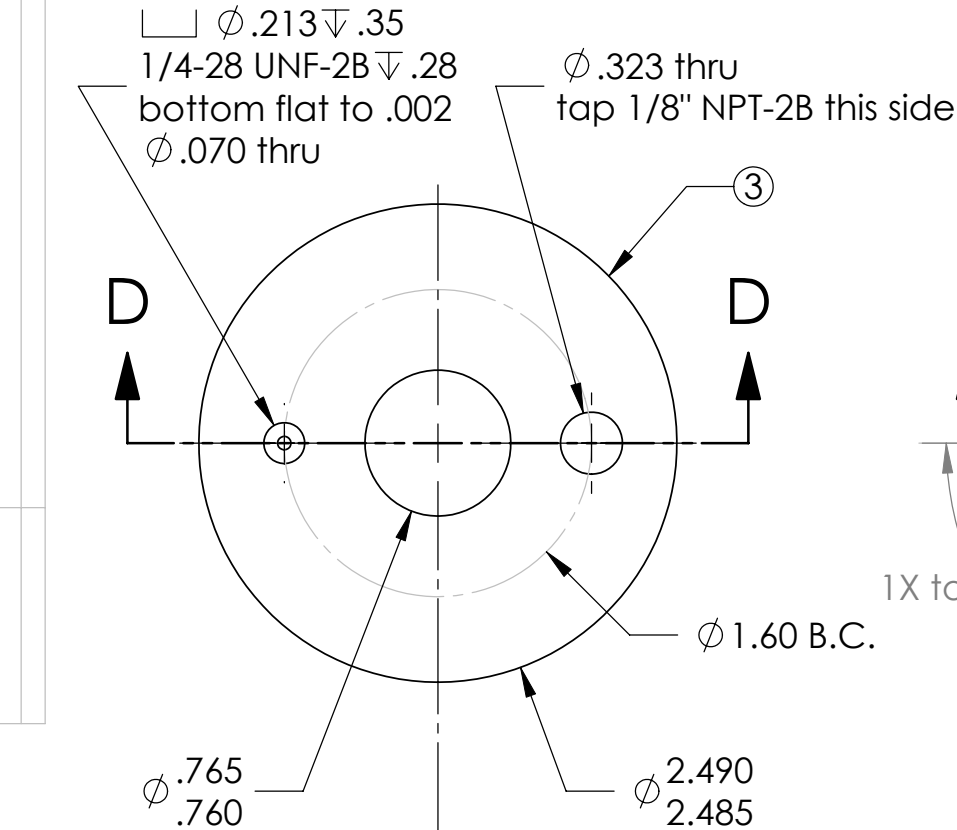
2X 6.0
both ends

2X .500

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		

DIMENSIONS NOT SHOWN ARE SAME AS IN PART #3



Note 7: Pumps should be specified with number of membranes, ranging from 1 to 6. Please machine only appropriate number of membrane positions as requested.

5	1		OS pump Bottom	1" PVC plate
4	1		OS pump Middle	1" PVC plate
3	1		OS pump Top	1" PVC plate
Item No.	Qty	Part No.	Description	Material Specification

Bill of Materials				
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS
Inspector		1 PLACE DIM $\pm 1/16$	2 PLACE DIM $\pm .02$	DATE
Shop Foreman		3 PLACE DIM $\pm .005$	ANGLES $\pm 1^\circ$	06/12/09
Engineer		1. DIMENSIONS ARE IN INCHES		
		2. DIMENSION LIMITS HELD AFTER PLATING.		
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		
		4. MACHINED FILLET RADII .0150-.030.		
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.		
NEXT ASSY Description	NEXT ASSY Number	PROJECT NO.		
		PROJECT NSF OsmoSamplers		
Application	DO NOT SCALE DRAWING	WEIGHT		

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



PVC OsmoSampler Pumps
(for Juan de Fuca 2009)

SIZE B	DWG. NO. 231jaha-pvcOS-JdF-2009	REV.
SCALE 1:3	CAD FILE: Tornado/chem/SWfiles	SHEET 2 OF 2