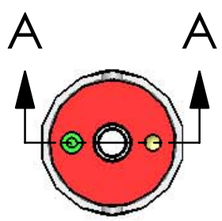
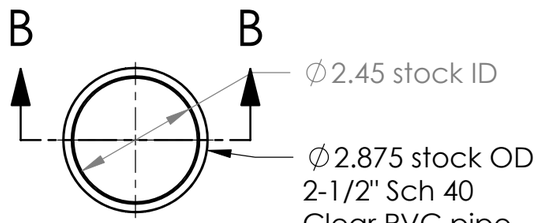
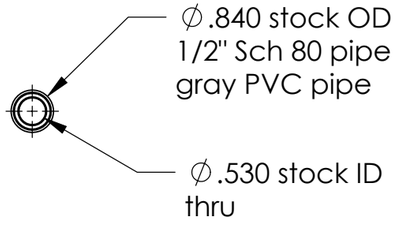
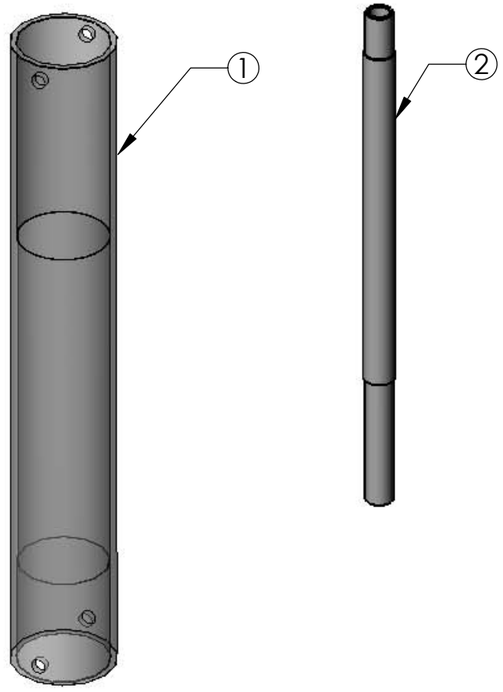
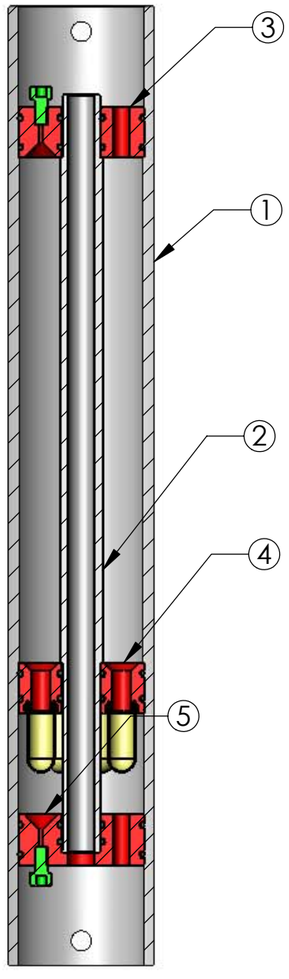
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		



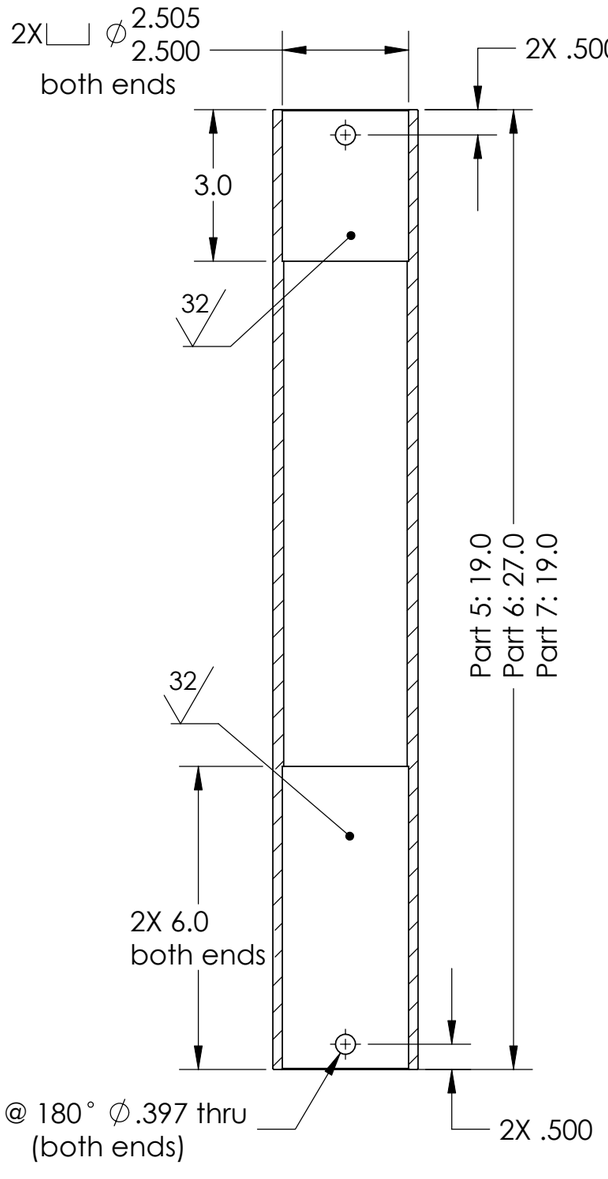




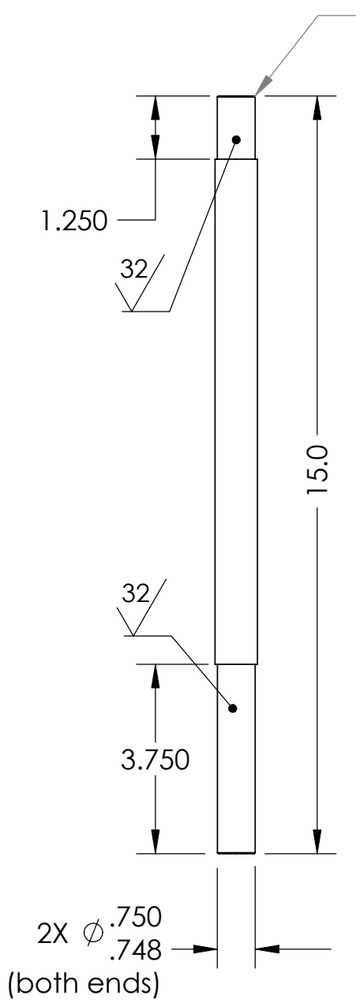




SECTION A-A
SCALE 1 : 3



SECTION B-B
SCALE 1 : 3



ASSEMBLY SECTION

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

Item No.	Qty	Part No.	Description	Material Specification
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

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 06/12/09
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.
		4. MACHINED FILLET RADII .0150-.030.	PROJECT NSF OsmoSamplers
Application		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.	
		DO NOT SCALE DRAWING	

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

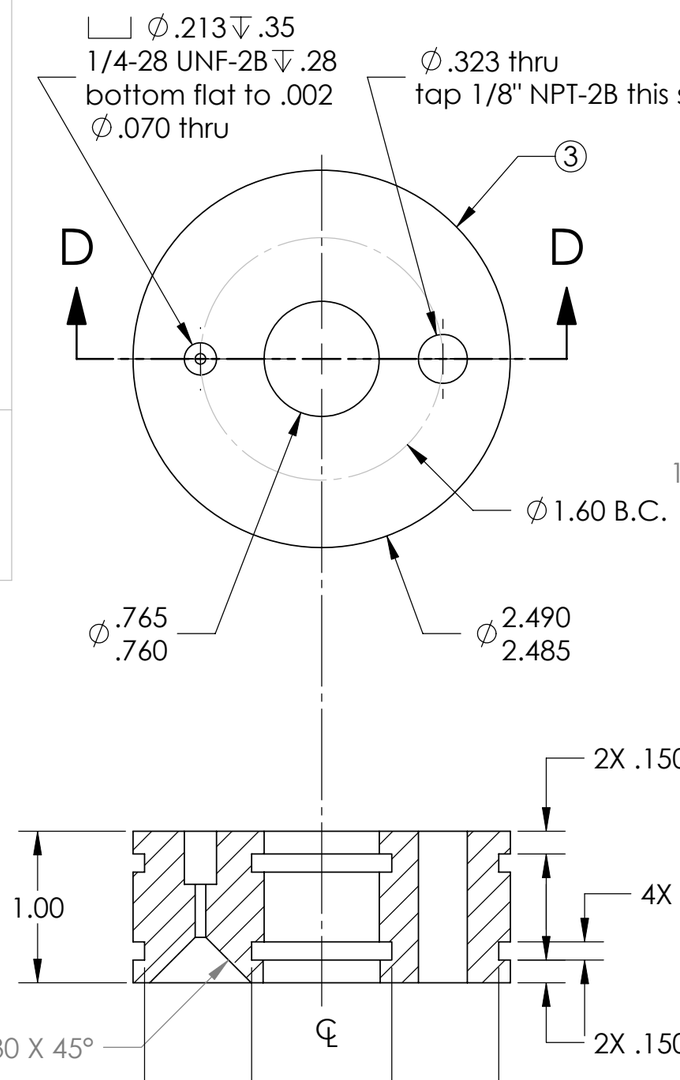
PVC OsmoSampler Pumps
(for Juan de Fuca 2009)

SIZE	DWG. NO.	REV.
B	231jaha-pvcOS-JdF-2009	

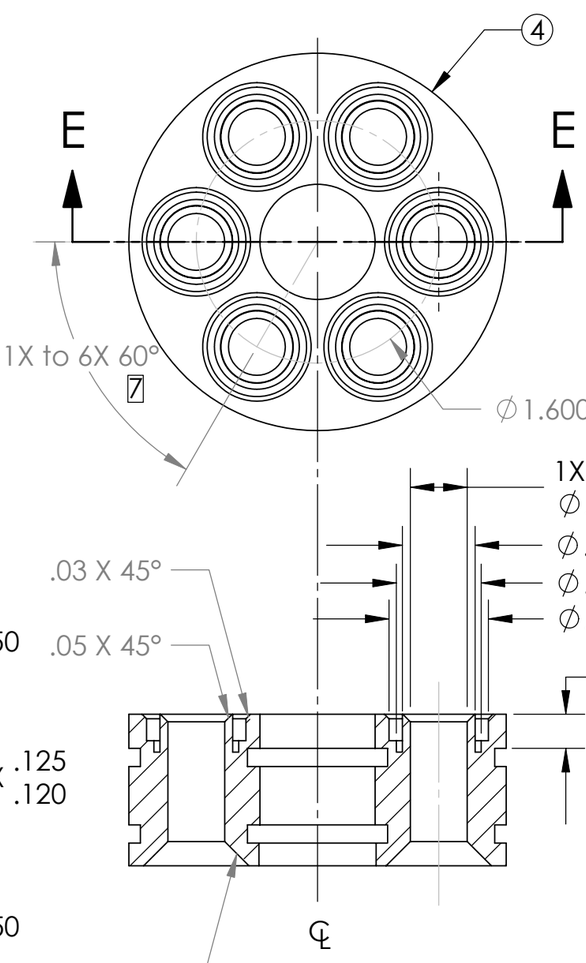
SCALE 1:3 | CAD FILE: Tornado/chem/SWfiles | SHEET 1 OF 2

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		

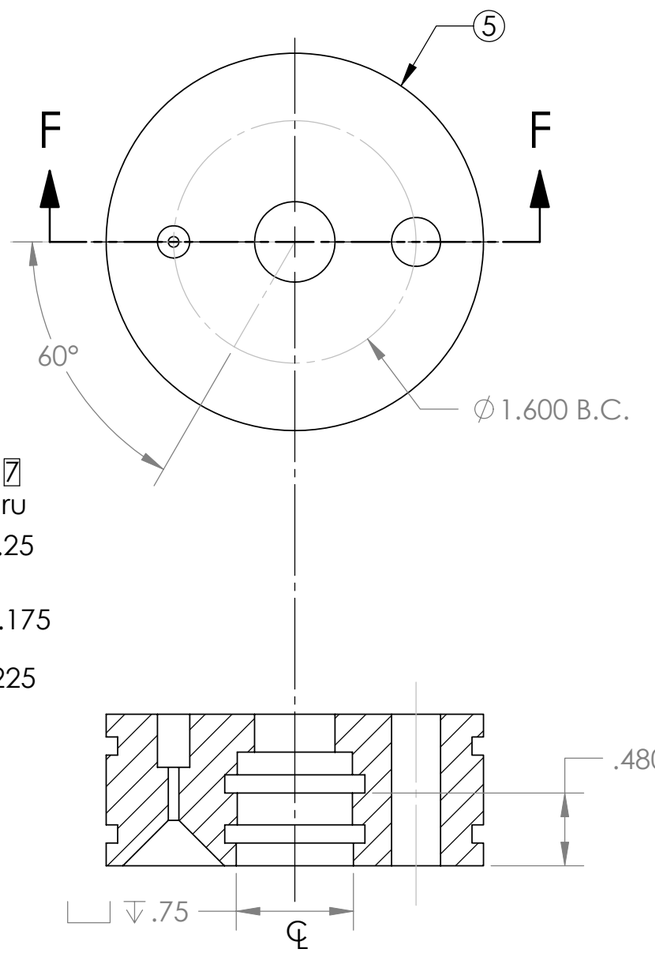
DIMENSIONS NOT SHOWN ARE SAME AS IN PART #3



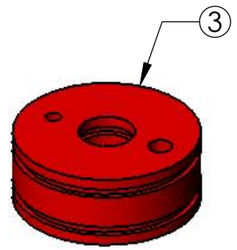
SECTION D-D

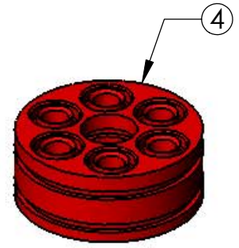


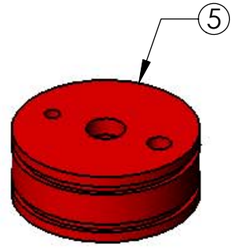
SECTION E-E



SECTION F-F







2X ∅.927 .925 (-116 O-ring)
Reduced compression (15%)

2X ∅2.338 .2.336 (-141 O-ring)
Reduced compression (15%)

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

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

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 06/12/09
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.
		4. MACHINED FILLET RADII .0150-.030.	PROJECT NSF OsmoSamplers
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .OOS	
		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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PVC OsmoSampler Pumps
(for Juan de Fuca 2009)

SIZE	DWG. NO.	REV.
B	231jaha-pvcOS-JdF-2009	

SCALE 1:3 · CAD FILE: Tornado/chem/SWfiles · SHEET 2 OF 2