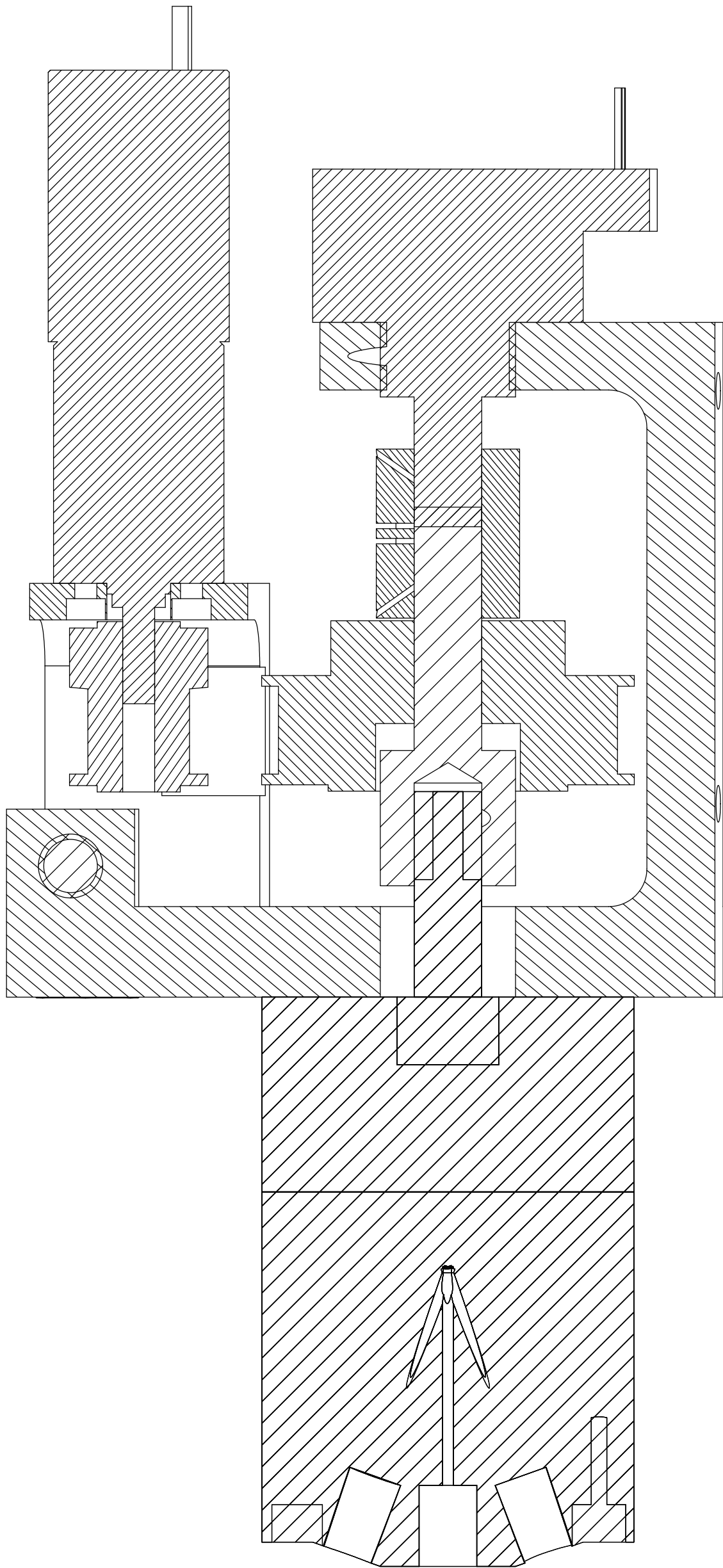
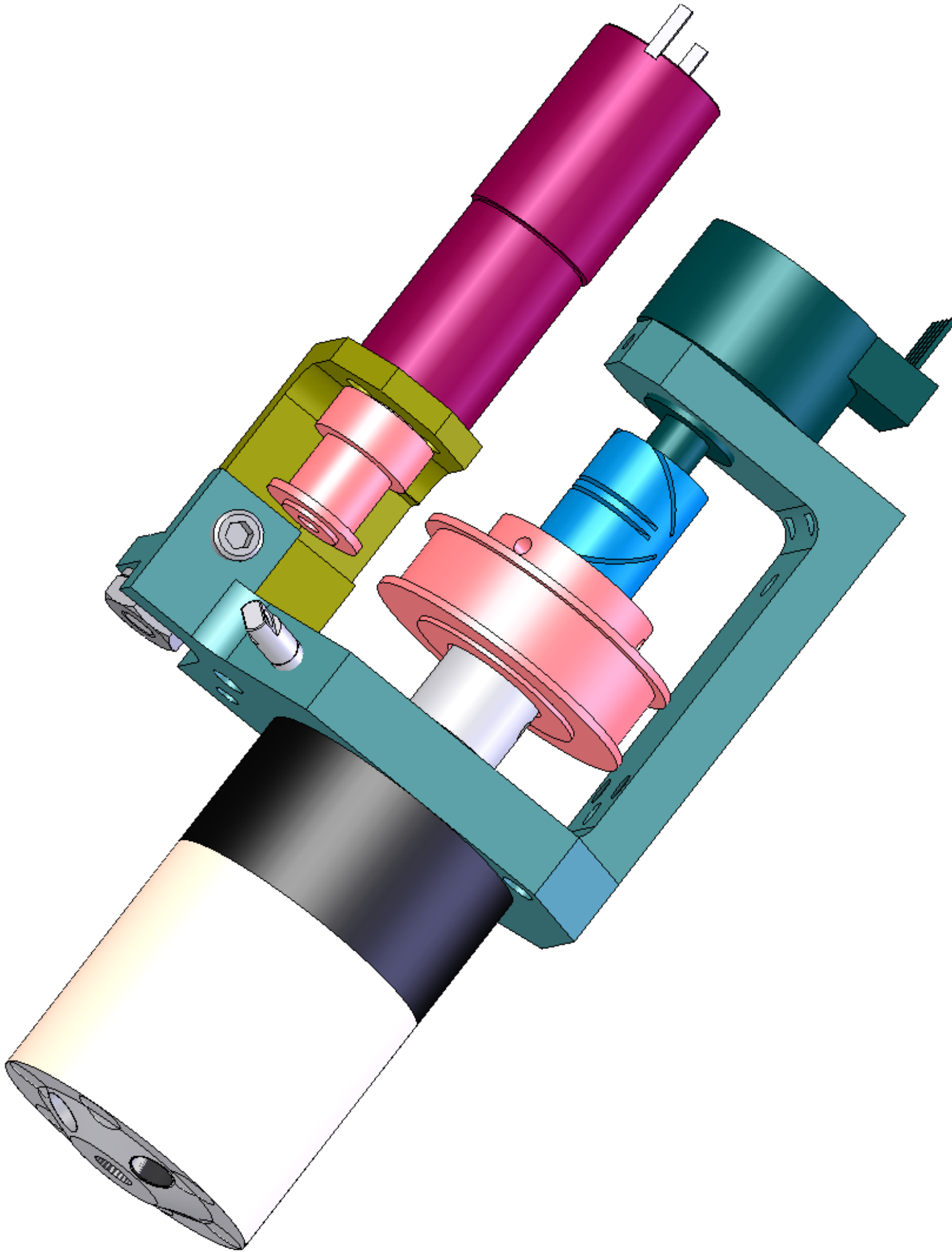


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SMALL ROTARY VALVE



SECTION VIEW



BILL OF MATERIALS					last updated on: Thursday, March 30, 2006 2:11:40 PM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS DATE	
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	4 PLACE DIM ±.0005	ANGLES ±1°	Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039 
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .000 TO .015 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED				
Engineer						
NEXT ASSY Description	NEXT ASSY Number					
DO NOT SCALE DRAWING		PROJECT NUMBER 701312.00		Small Rotary Valve		
		PROJECT ESP 2G		SIZE C	DWG. NO. 1002562	REV. E
CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)				SHEET 1 OF 5		

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1002562 - 001
ROTARY VALVE BASE - large Hamilton

F

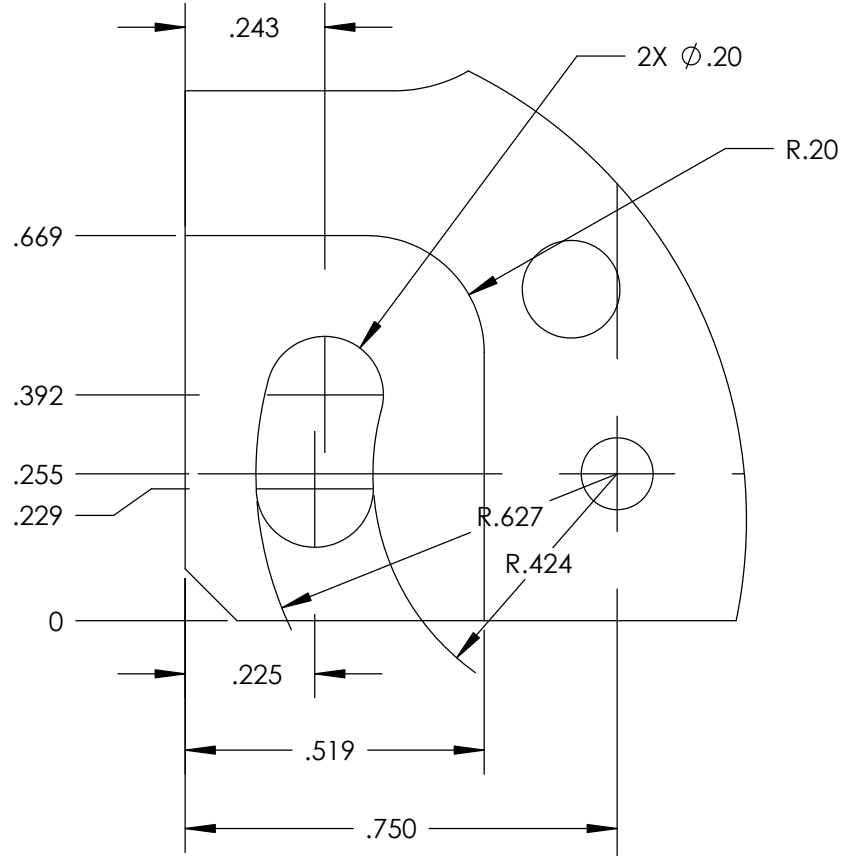
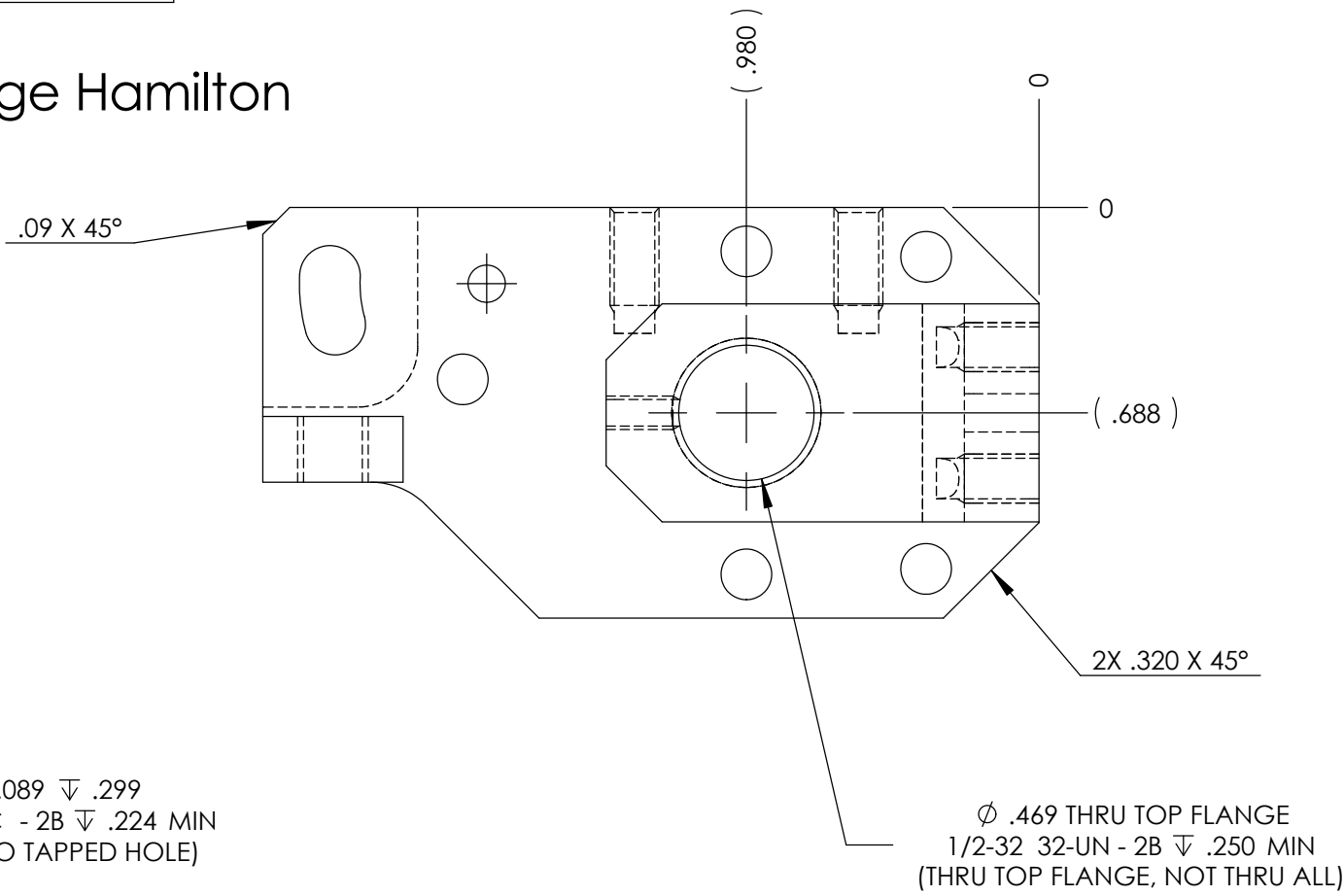
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D

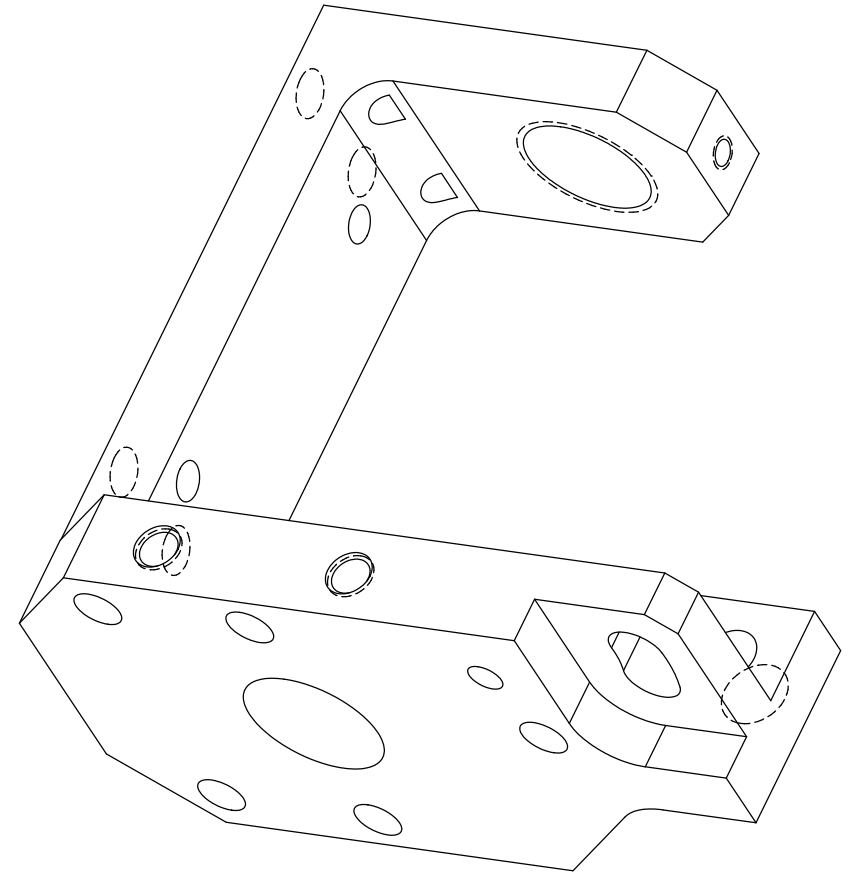
C

B

A



DETAIL A



F

E

D

C

B

A

ϕ .089 ∇ .299
4-40 UNC - 2B ∇ .224 MIN
(THRU TO TAPPED HOLE)

ϕ .469 THRU TOP FLANGE
1/2-32 32-UN - 2B ∇ .250 MIN
(THRU TOP FLANGE, NOT THRU ALL)

ϕ .197 THRU ALL
M6x1.0 - 6H THRU ALL

4X ϕ .136 ∇ .344 MIN
8-32 UNC - 2B ∇ .250 MIN

2X ϕ .129 THRU ALL

ϕ .718 THRU BOTTOM FLANGE

ϕ .1247^{+.0003}_{-.0000} THRU

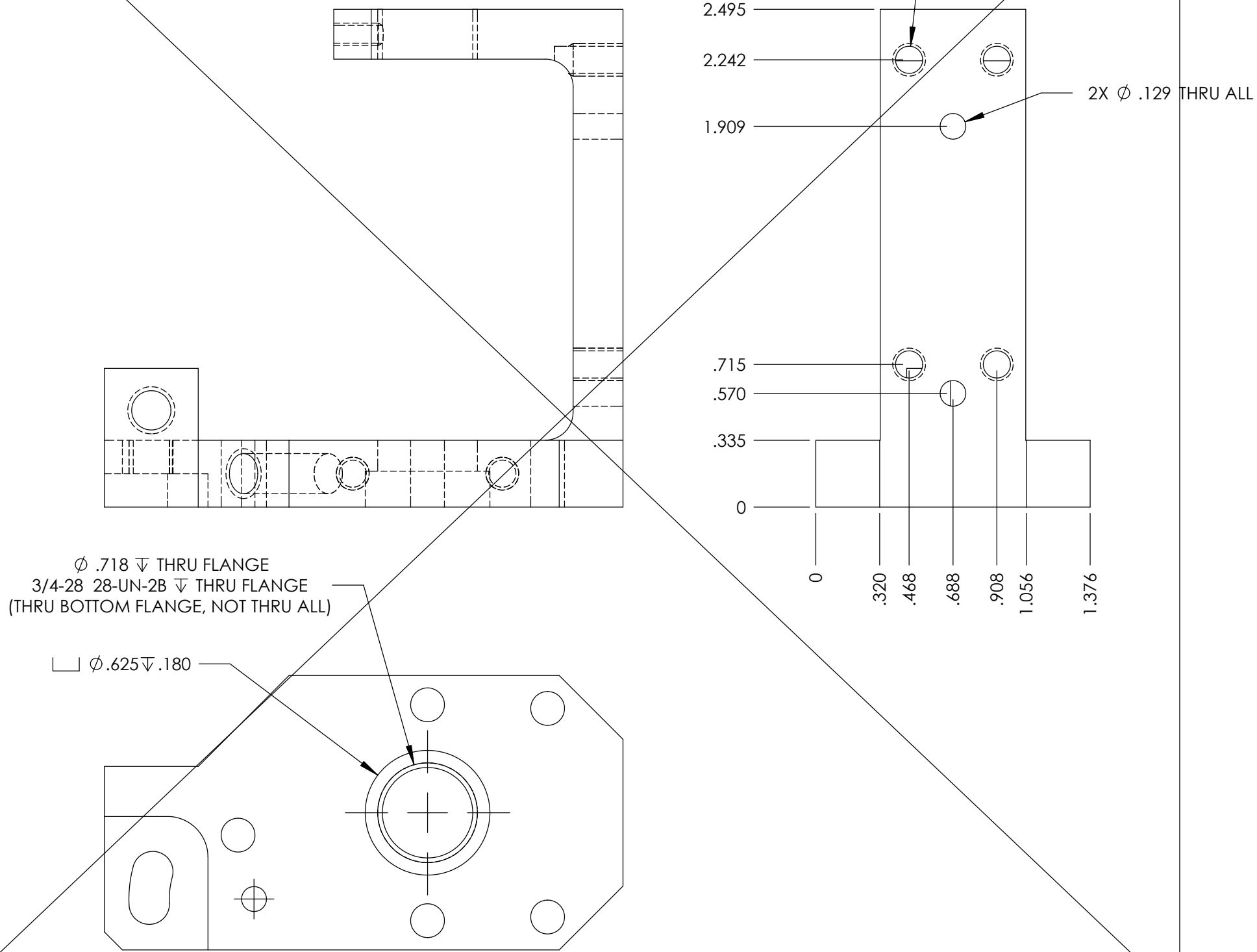
3X ϕ .170 THRU ALL

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
1	1002562-001	small rotary valve base	6061-T6 Aluminum	-
BILL OF MATERIALS			last updated on: Thursday, March 30, 2006 2:11:40 PM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	4 PLACE DIM ±.0005
Shop Foreman		ANGLES ±1°	ENGINEER Jason Feldman 831-775-1837	
Engineer		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .000 TO .015 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039
NEXT ASSY Description	NEXT ASSY Number	6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE.		Small Rotary Valve
		7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED		
DO NOT SCALE DRAWING		PROJECT NUMBER 701312.00		SIZE C
		PROJECT ESP 2G		
		DWG. NO. 1002562		REV. E
		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)		SHEET 2 OF 5

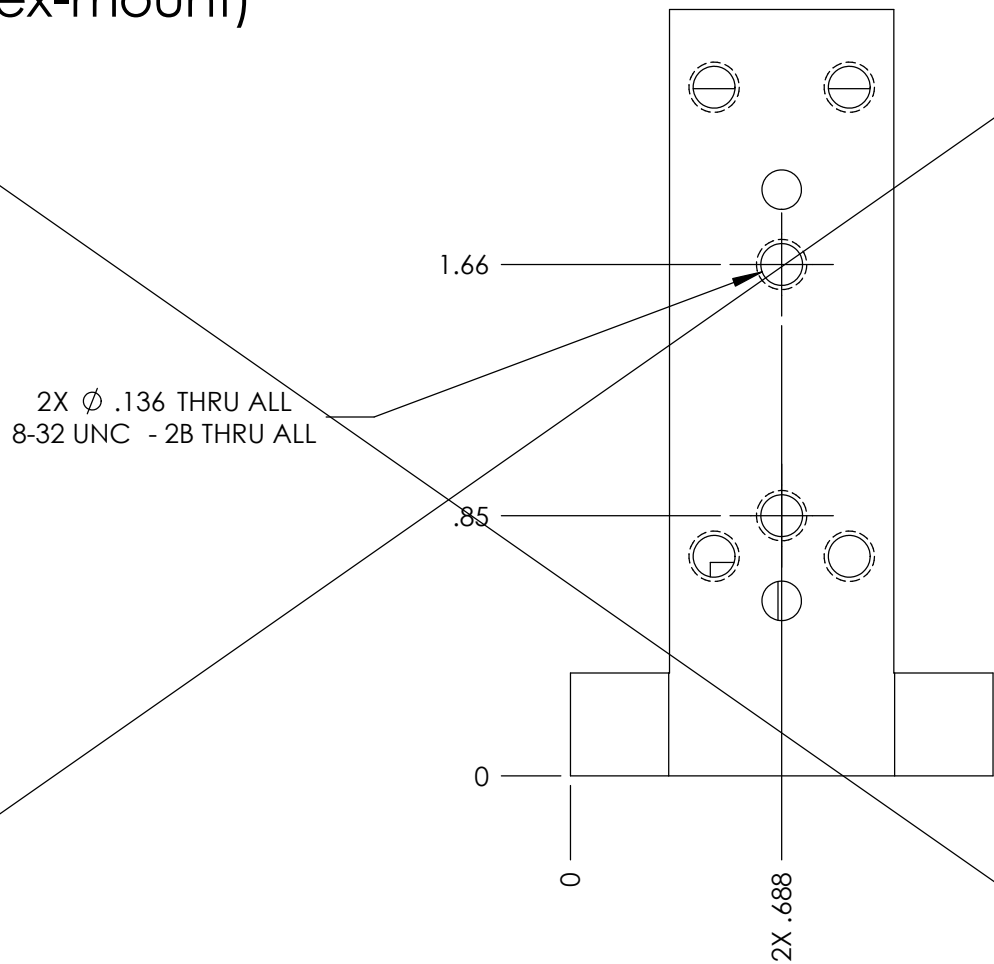
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1002562 - 002 SMALL ROTARY VALVE BASE - small Hamilton

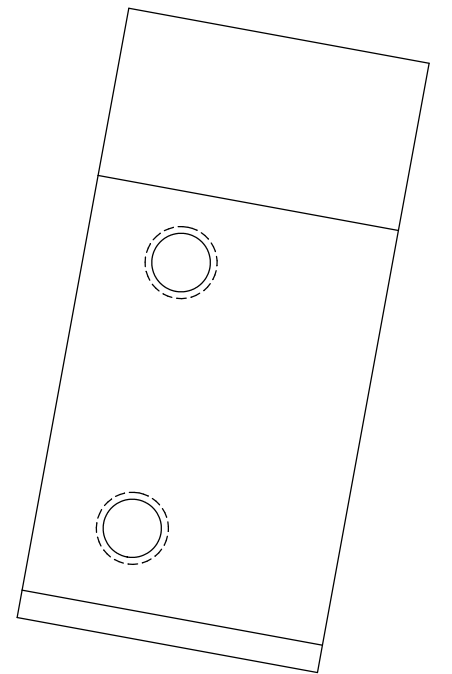
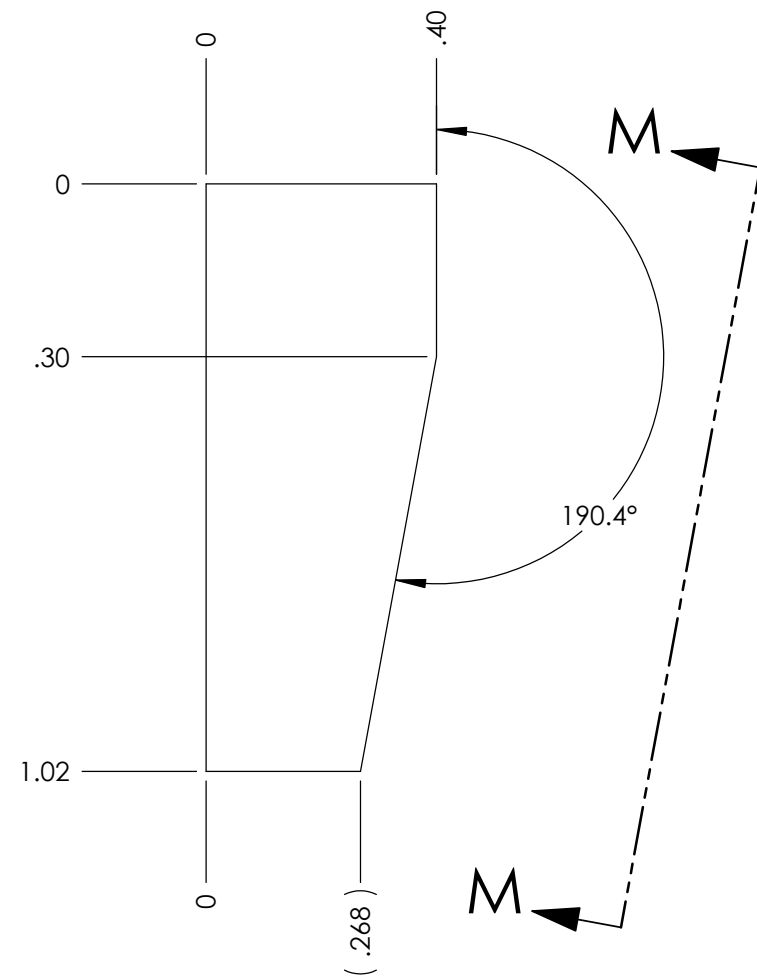
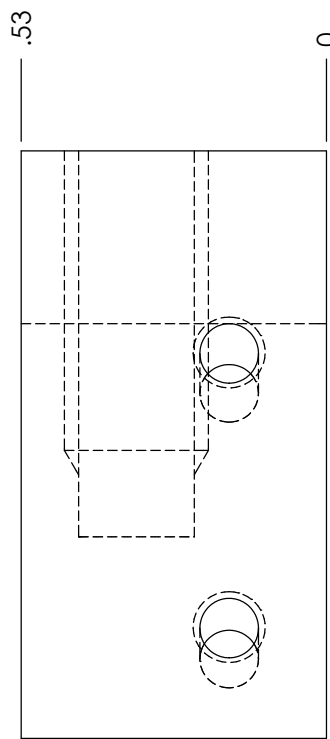
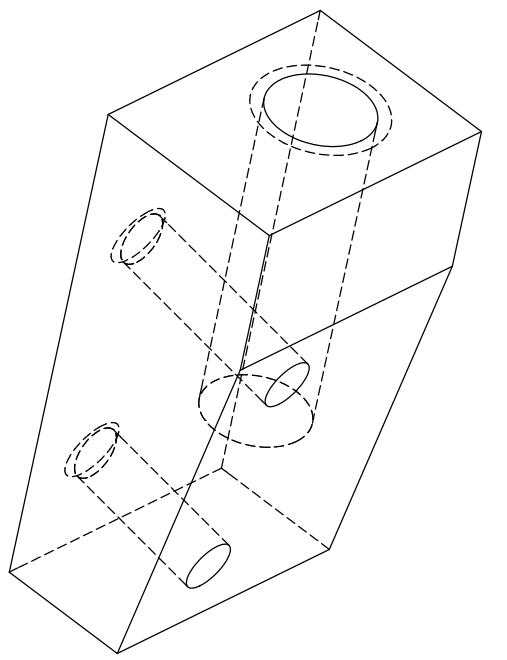
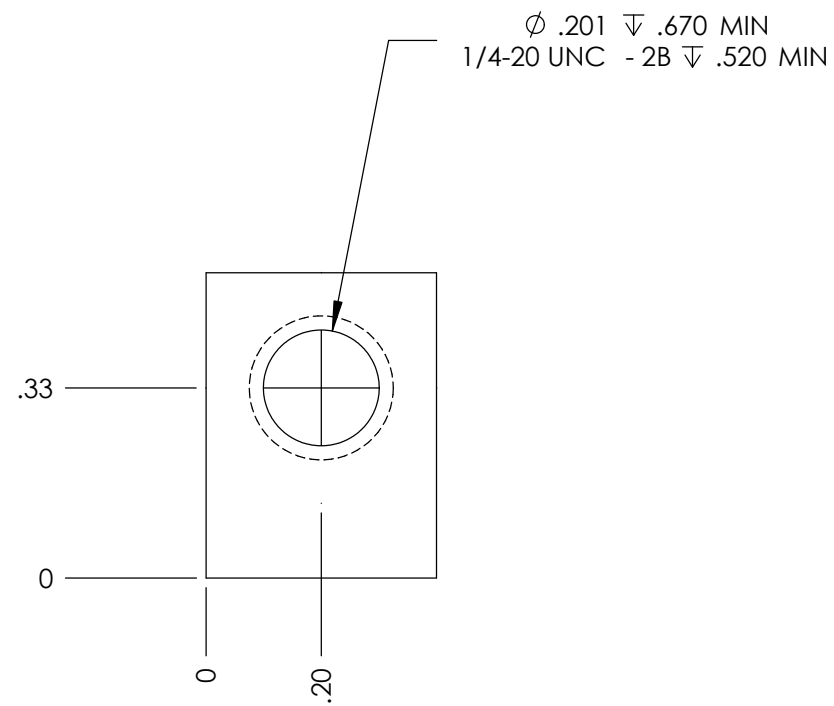
1002562 - 006 CCTV bracket



1002562 - 001-flex SMALL ROTARY VALVE BASE (modification for flex-mount)



ALL OTHER DIMENSIONS AS PER 1--2562-001 (SHEET 2)

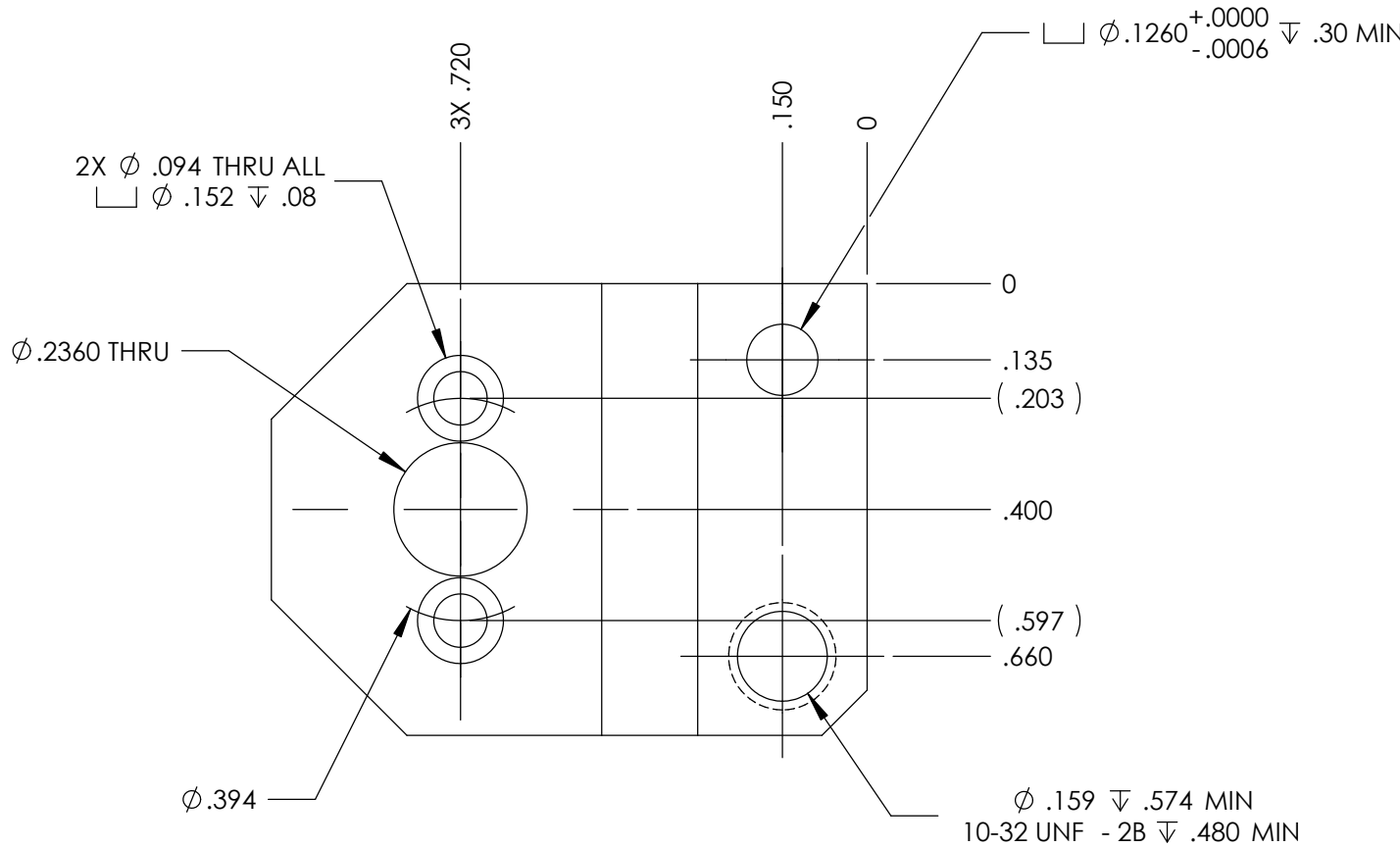
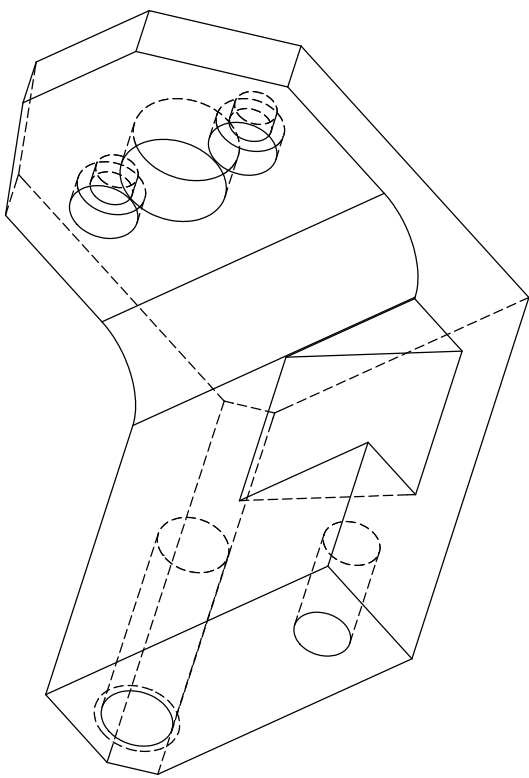
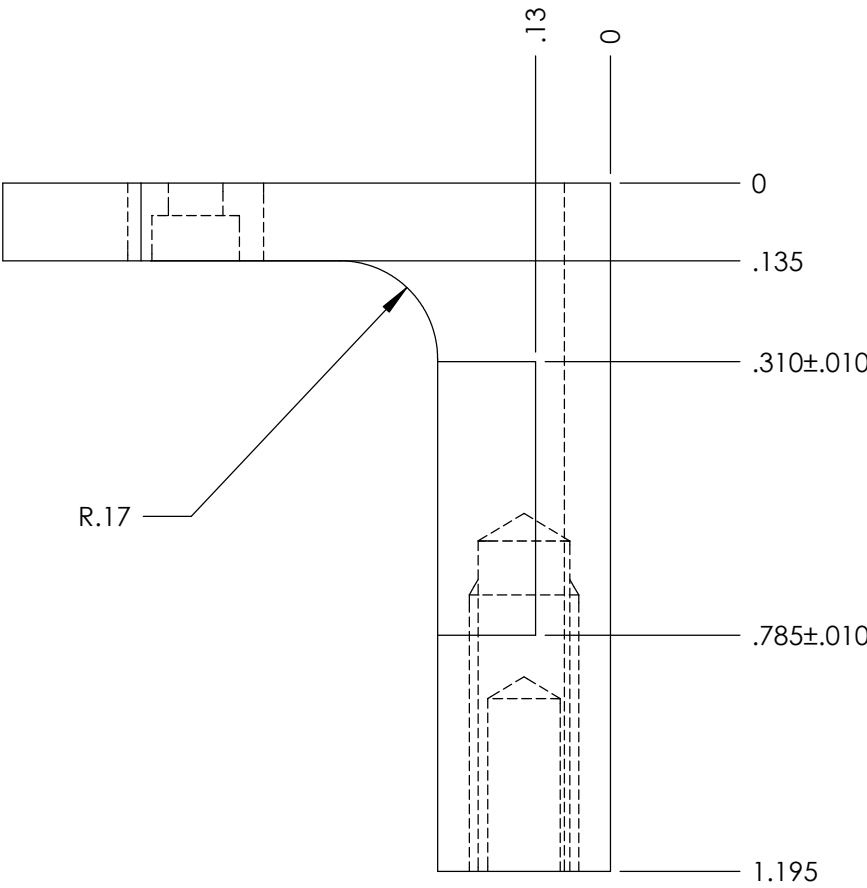
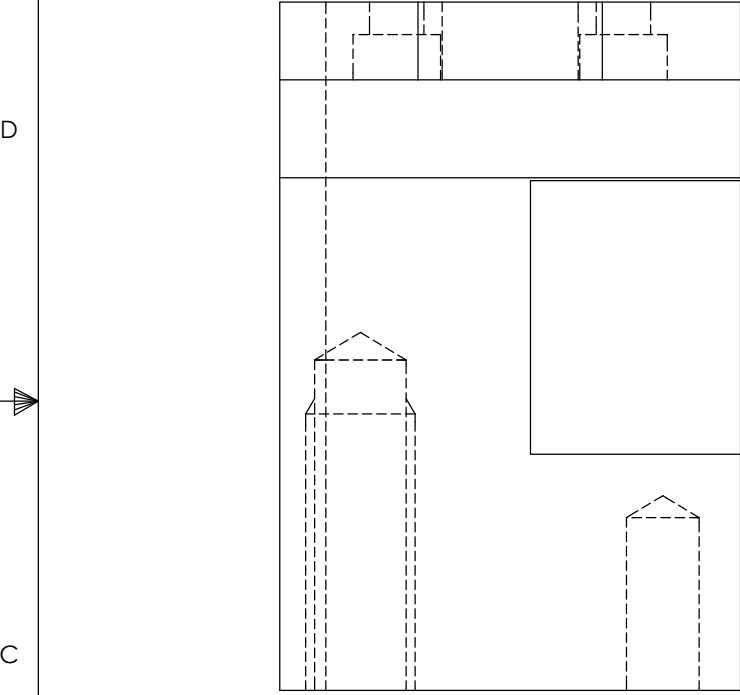
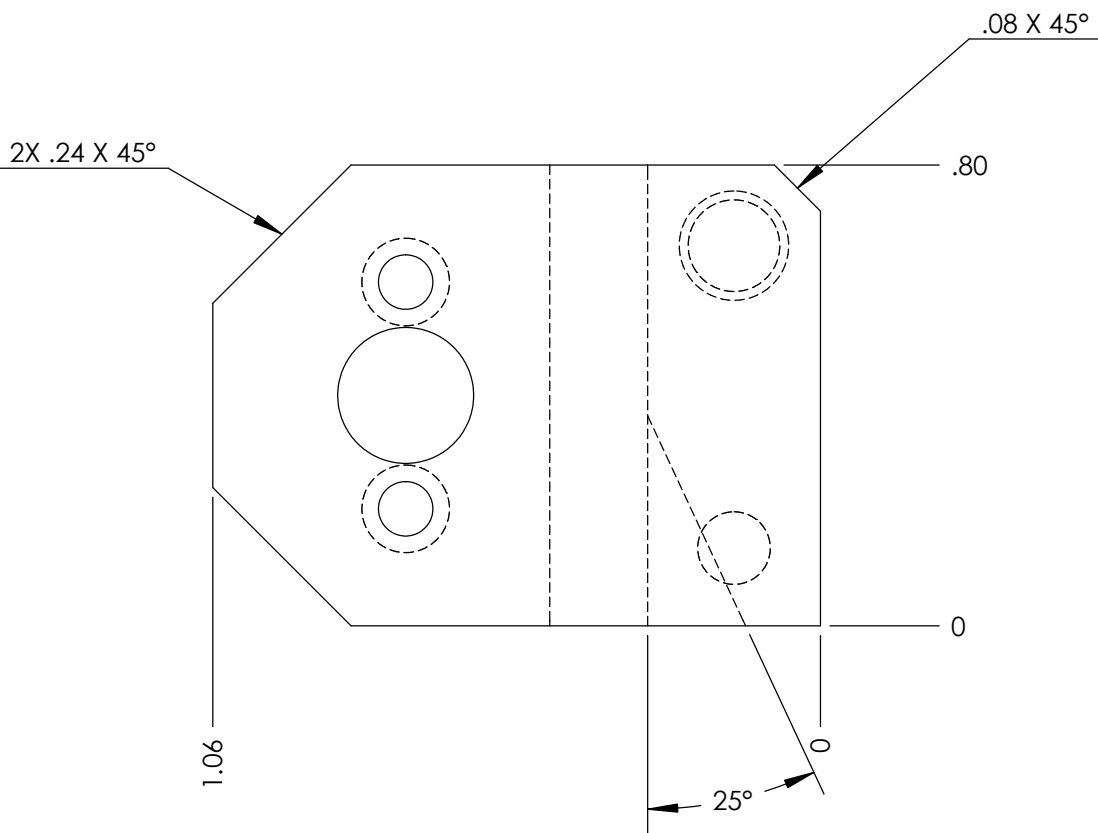


VIEW M-M
SCALE 3 : 1

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
6	1002562-006	CCTV BRACKET	7075 Aluminum	1
BILL OF MATERIALS			last updated on: Thursday, March 30, 2006 2:11:40 PM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	APPROVALS DATE Monterey Bay Aquarium Research Institute	
Inspector		2 PLACE DIM ±.01 3 PLACE DIM ±.005 4 PLACE DIM ±.0005 ANGLES ±1°	ENGINEER Jason Feldman 831-775-1837	
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .000 TO .015 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED	7700 Sandholdt Road Moss Landing, CA 95039	
Engineer			CHECKED	
NEXT ASSY Description	NEXT ASSY Number		PROJECT NUMBER 701312.00	
DO NOT SCALE DRAWING		PROJECT ESP 2G		SIZE C
		DWG. NO. 1002562		REV. E
		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)		SHEET 3 OF 5

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1002562 - 003
ROTARY VALVE MOTOR MOUNT

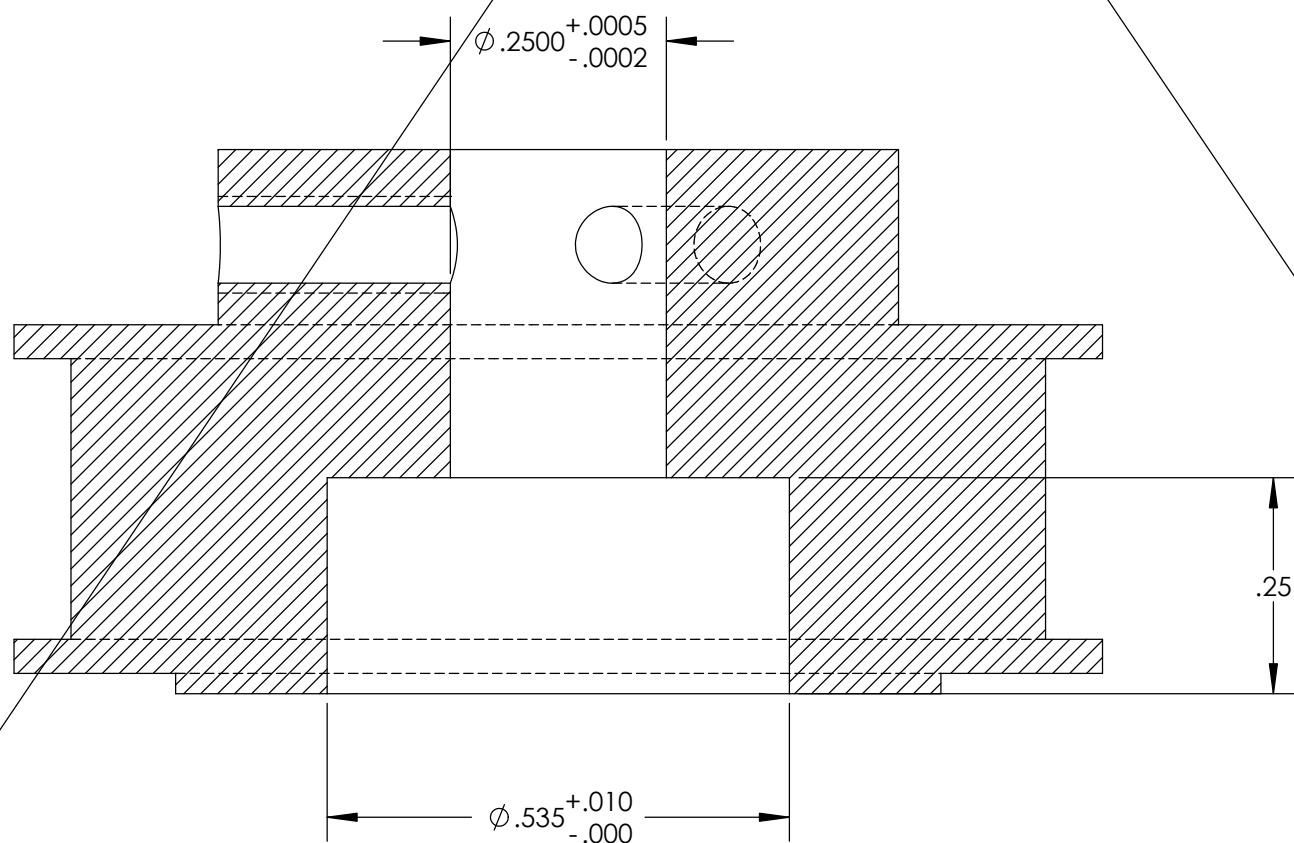
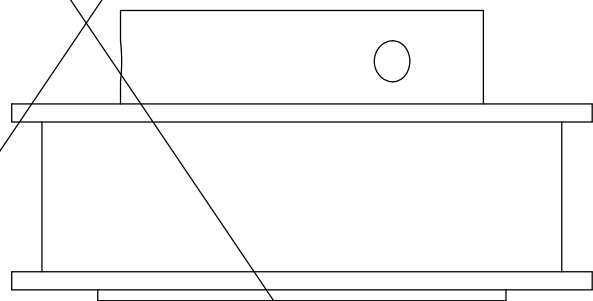
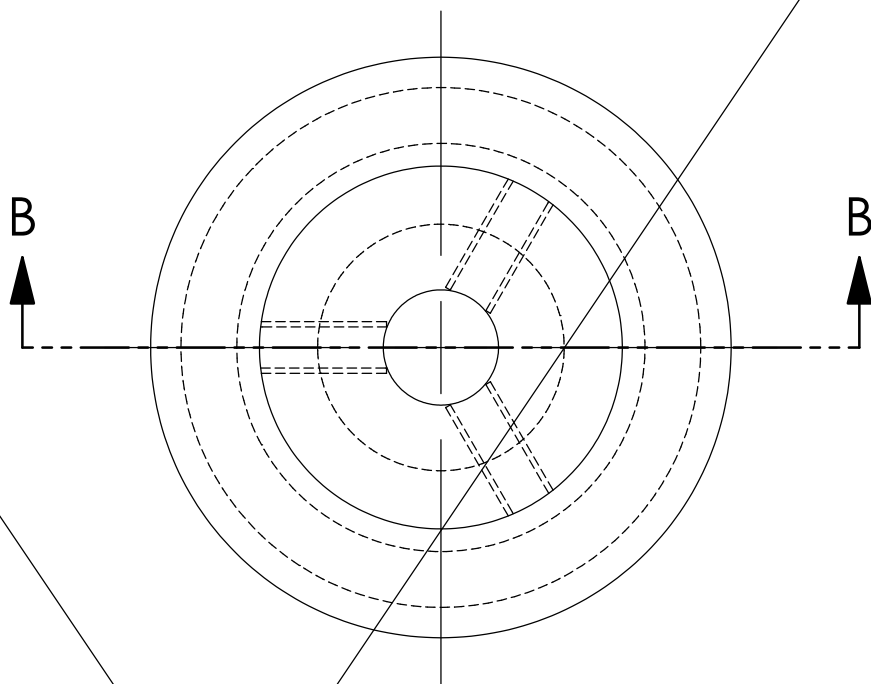
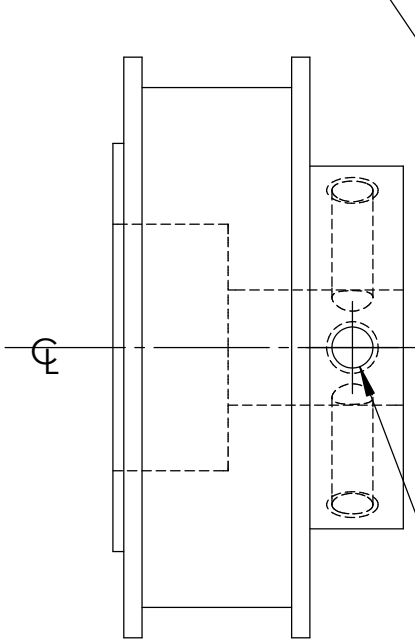


ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
3	1002562-003	motor mount	6061-T6 Aluminum	1

BILL OF MATERIALS				last updated on: Thursday, March 30, 2006 2:11:40 PM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	4 PLACE DIM ±.0005	ANGLES ±1°
Shop Foreman		1. DIMENSIONS ARE IN INCHES		ENGINEER Jason Feldman 831-775-1837	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING		CHECKED	
NEXT ASSY Description		3. REMOVE BURRS & SHARP EDGES .010 MAX		PROJECT NUMBER 701312.00	
NEXT ASSY Number		4. MACHINED FILLET RADII .000 TO .015		PROJECT ESP 2G	
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		SIZE C	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE.		DWG. NO. 1002562	
		7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED		REV. E	
DO NOT SCALE DRAWING		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)		SHEET 4 OF 5	

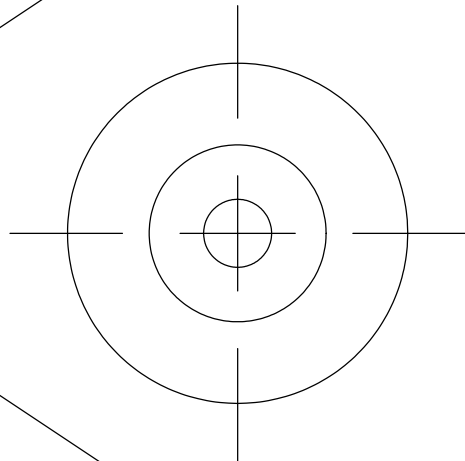
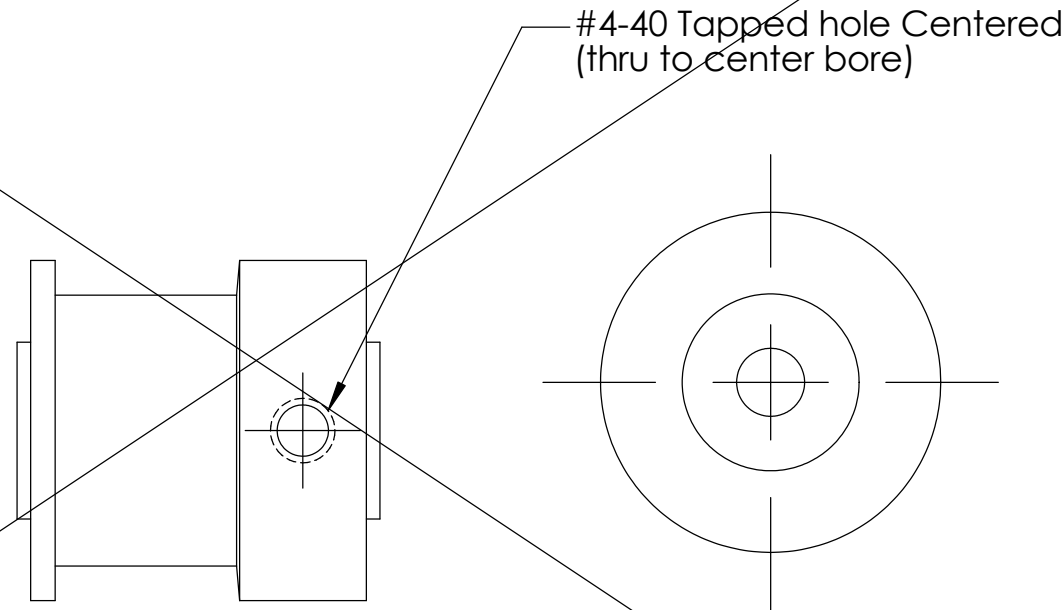
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1002562 - 004
MODIFICATION TO T2.5X36 TIMING BELT PULLEY

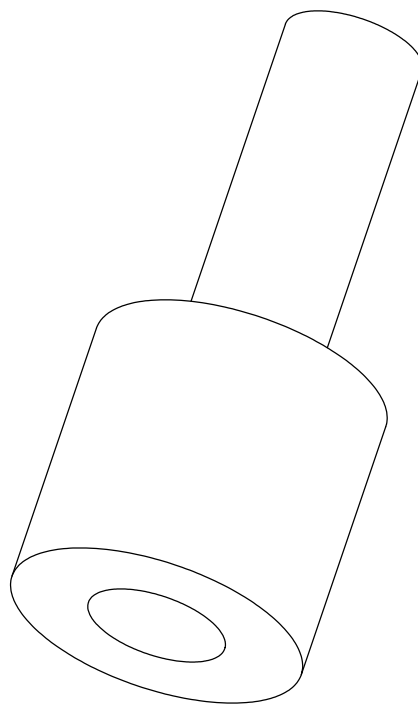
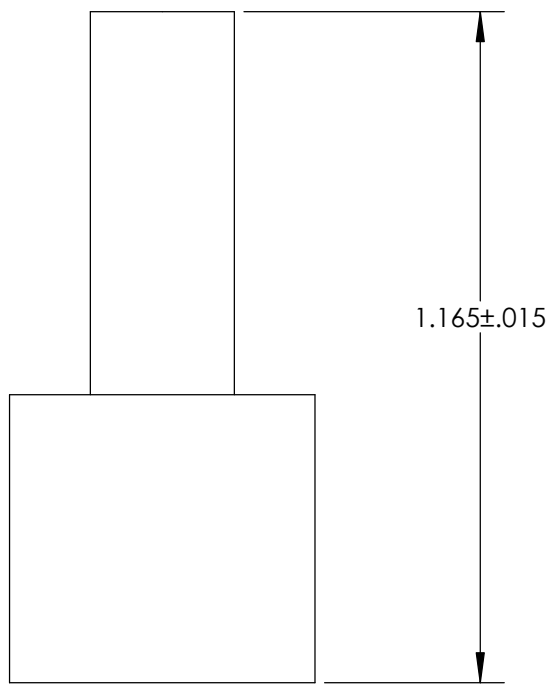


SECTION B-B

1002562 - 005
MODIFICATION TO T2.5X315 TIMING BELT PULLEY



Fairloc shat extender - for ϕ 1/4" shaft
MODIFICATION



BILL OF MATERIALS					last updated on: Thursday, March 30, 2006 2:11:40 PM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS	
Inspector		2 PLACE DIM $\pm$.01	3 PLACE DIM $\pm$.005	4 PLACE DIM $\pm$.0005	ENGINEER Jason Feldman 831-775-1837	DATE Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .000 TO .015 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005			CHECKED	
Engineer		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED			PROJECT NUMBER 701312.00	Small Rotary Valve
NEXT ASSY Description	NEXT ASSY Number				PROJECT ESP 2G	
DO NOT SCALE DRAWING					SIZE C	DWG. NO. 1002562
					REV. E	
					CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209) SHEET 5 OF 5	