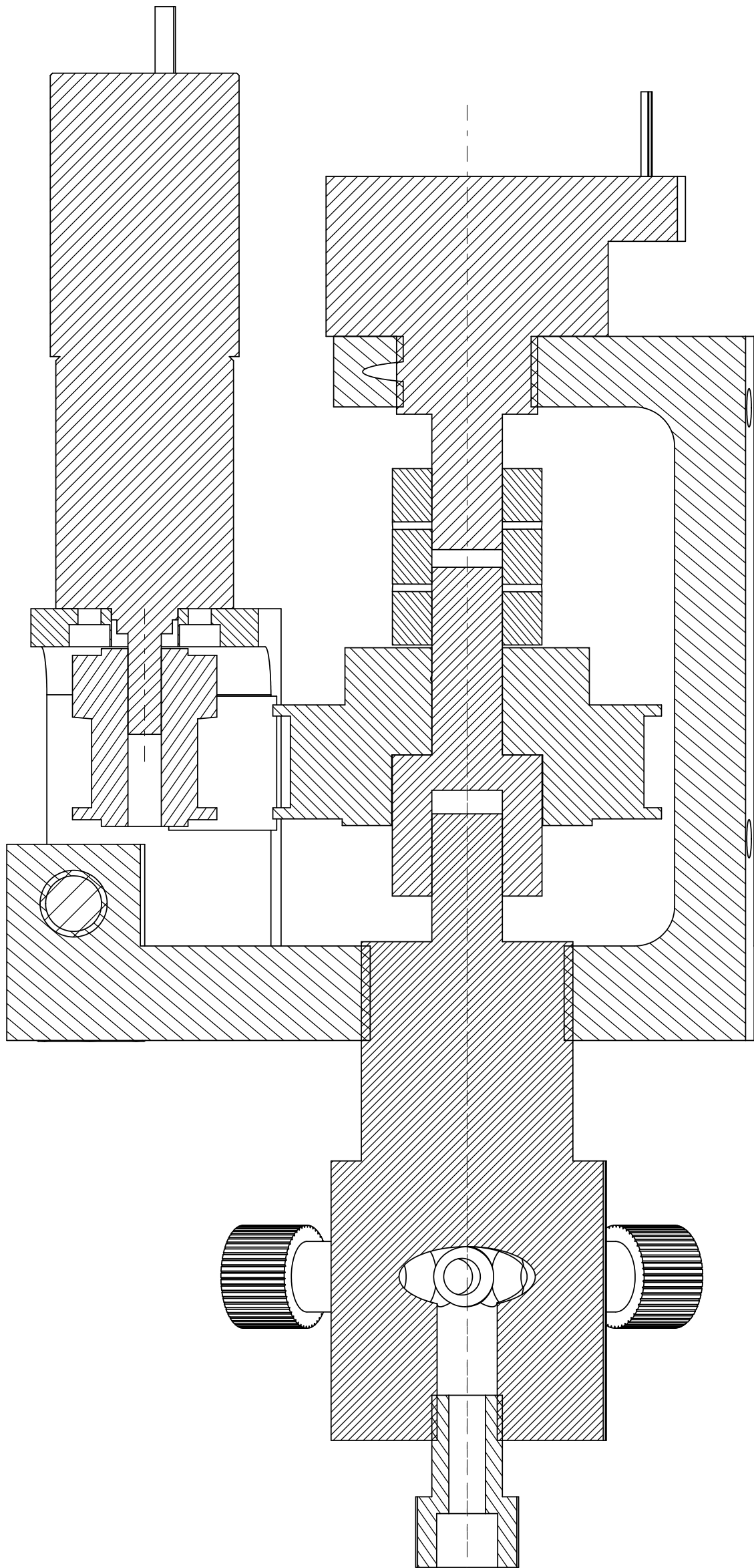
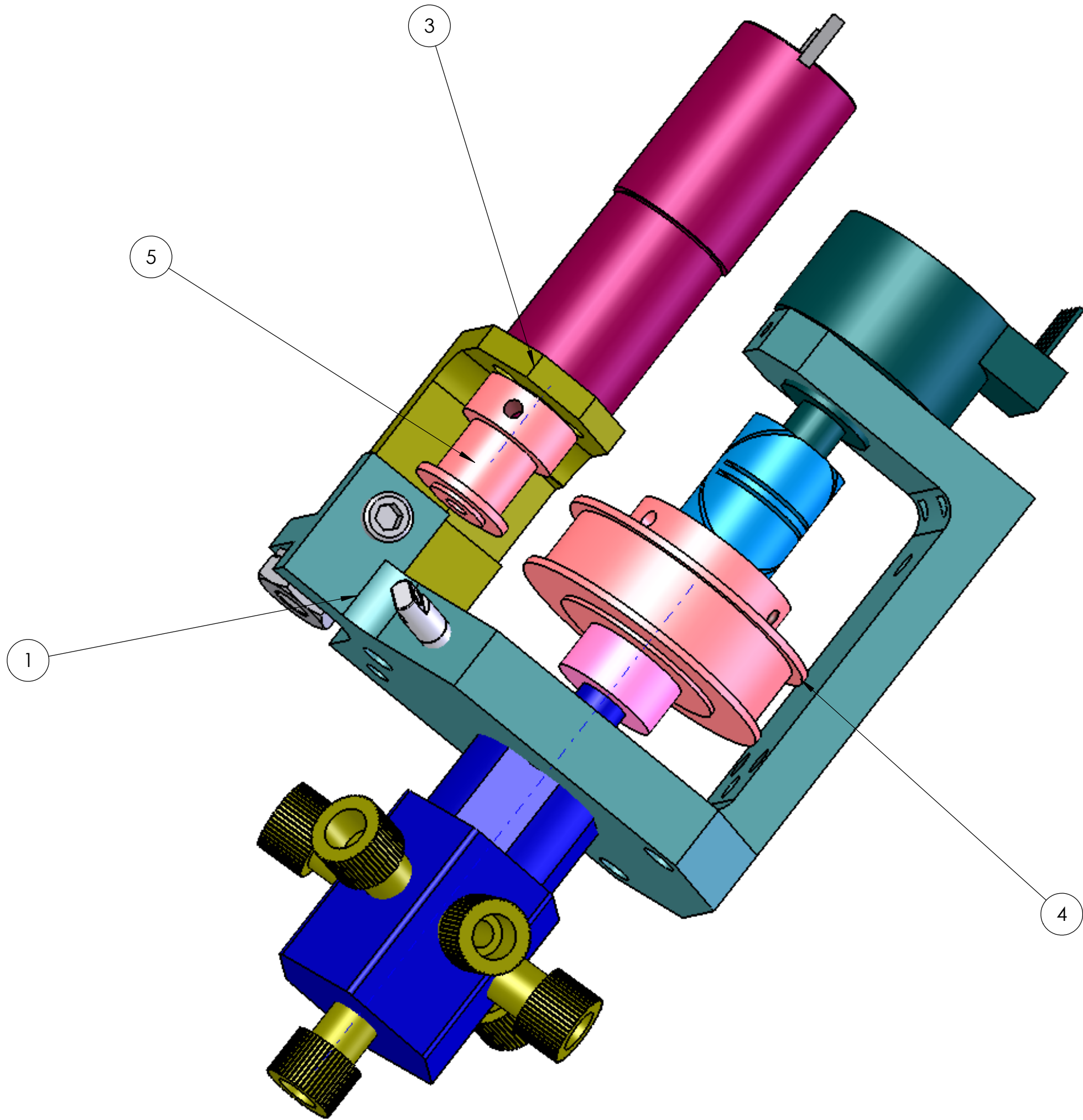


SMALL ROTARY VALVE



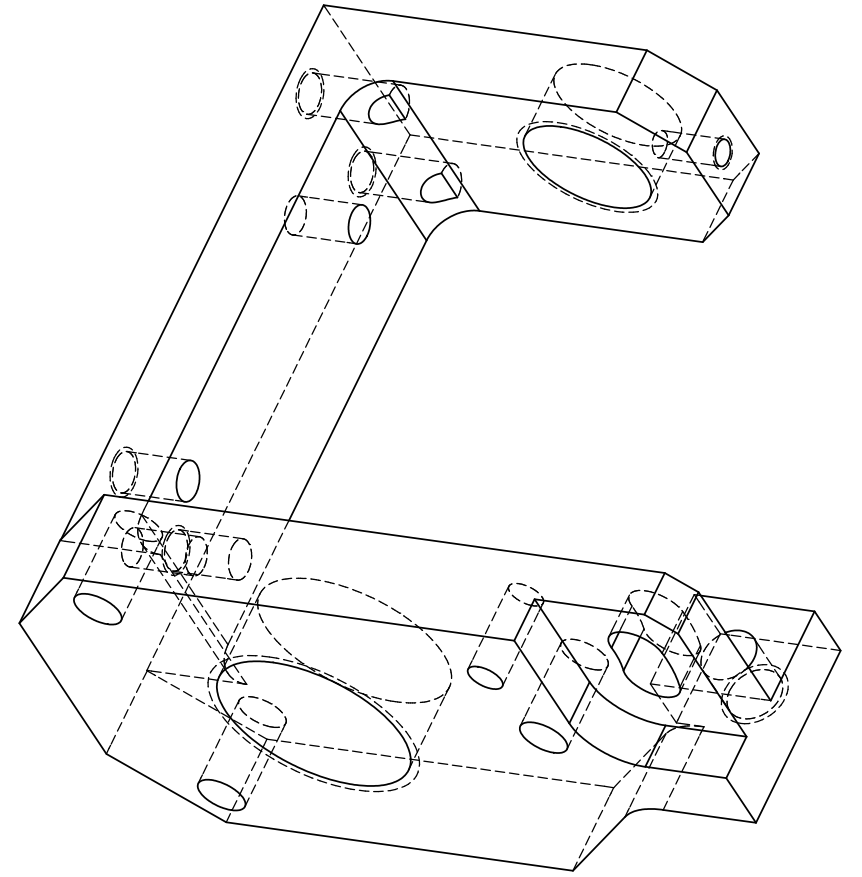
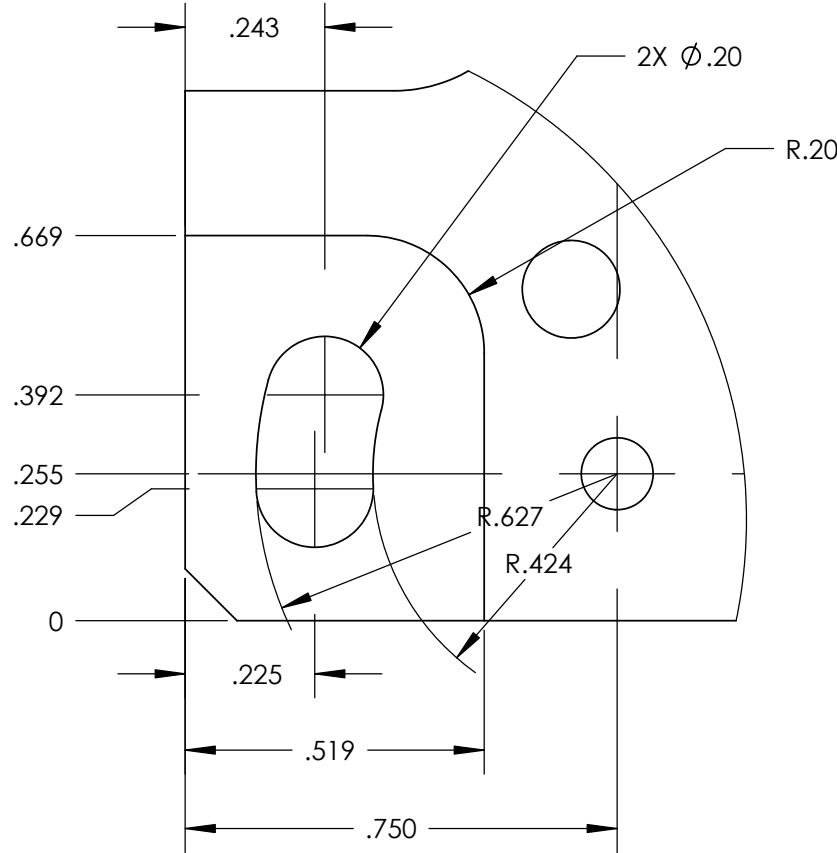
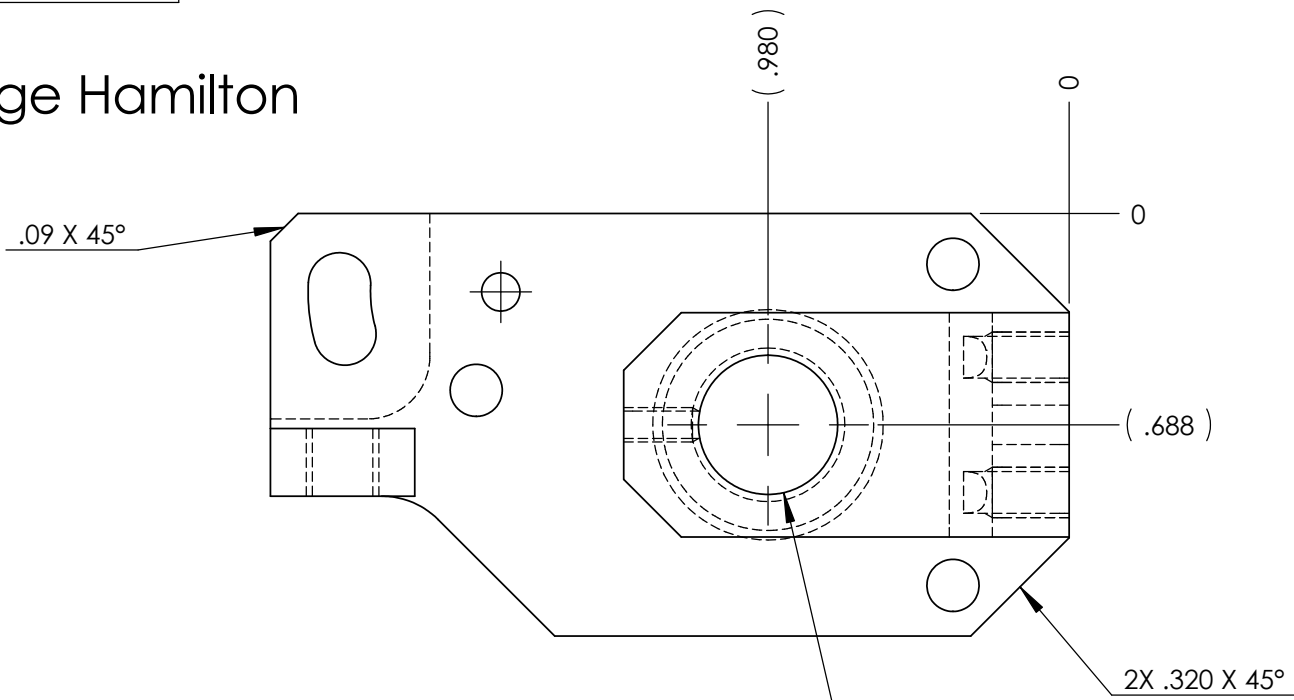
SECTION VIEW



BILL OF MATERIALS					last updated on: Tuesday, March 22, 2005 11:38:30 AM			
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		ENGINEER Jason Feldman 831-775-1837				PROJECT NUMBER 701312.00		
		CHECKED					Small Rotary Valve	
		PROJECT ESP 2G						
		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)				SIZE C	DWG. NO. 1002562	REV. E
						SHEET 1 OF 6		

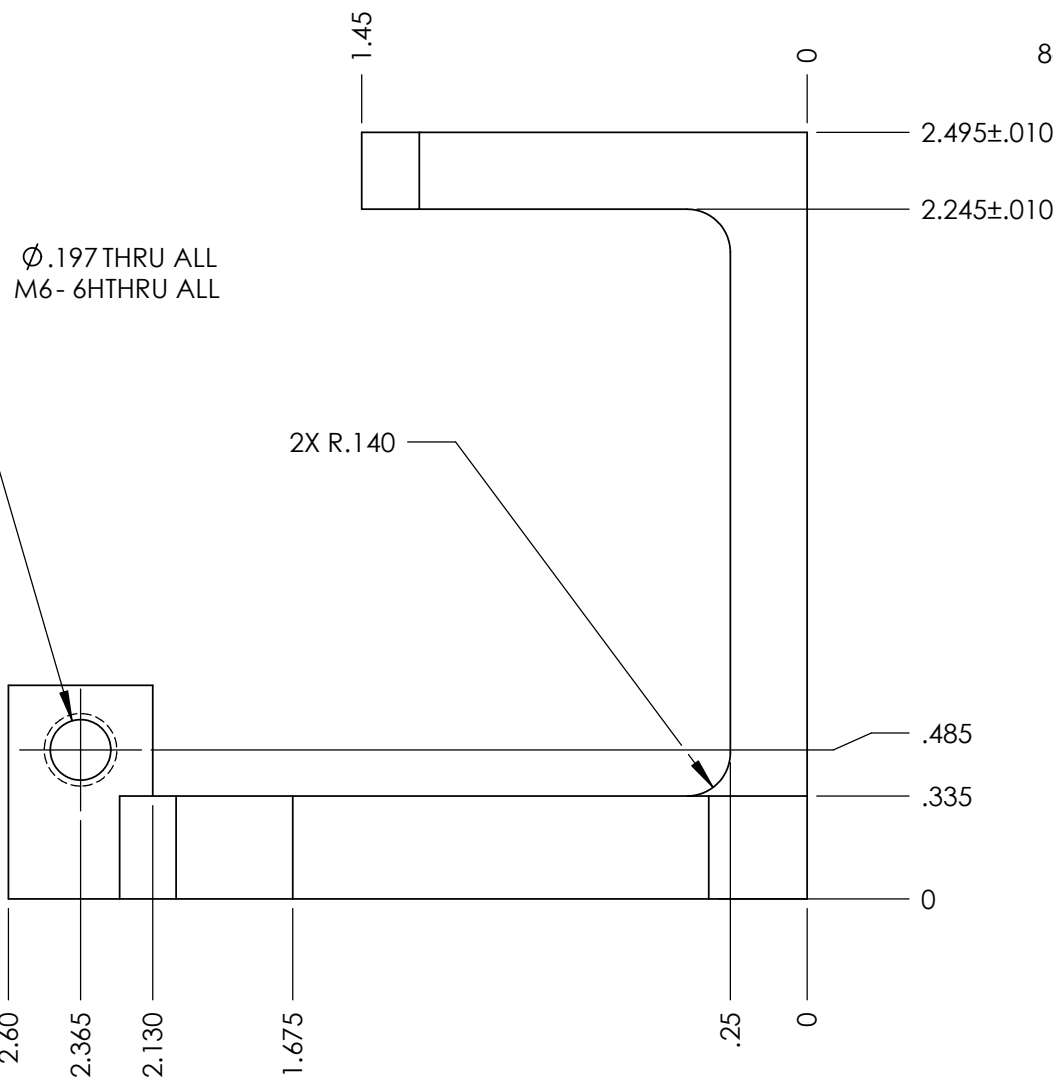
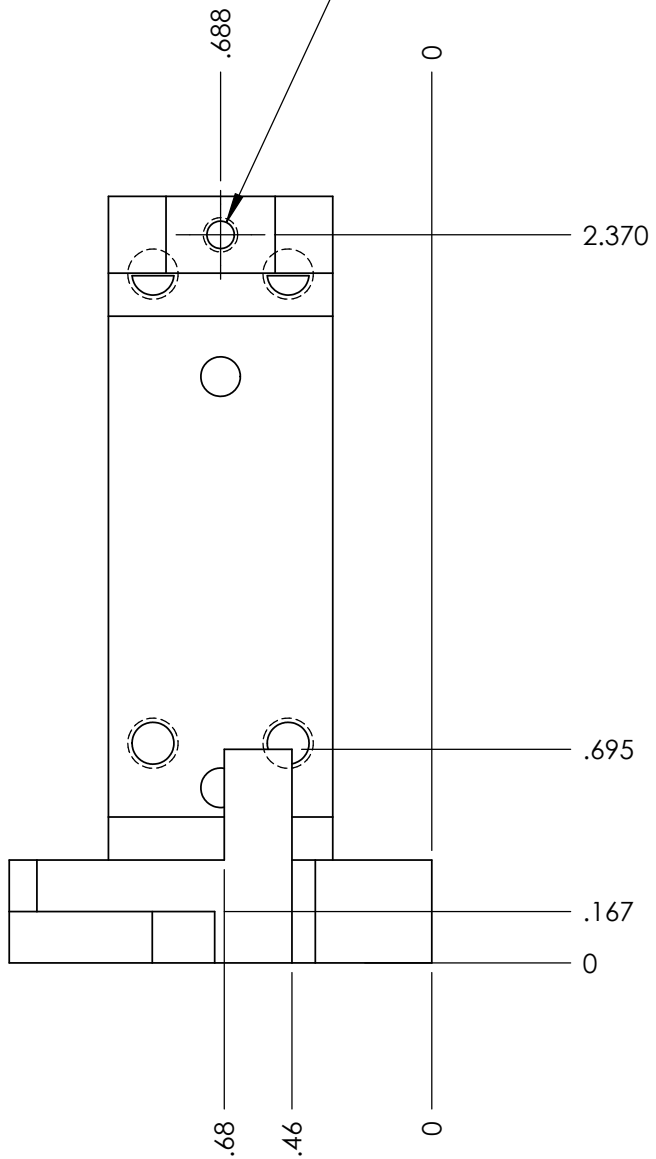
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1002562 - 001
ROTARY VALVE BASE - large Hamilton

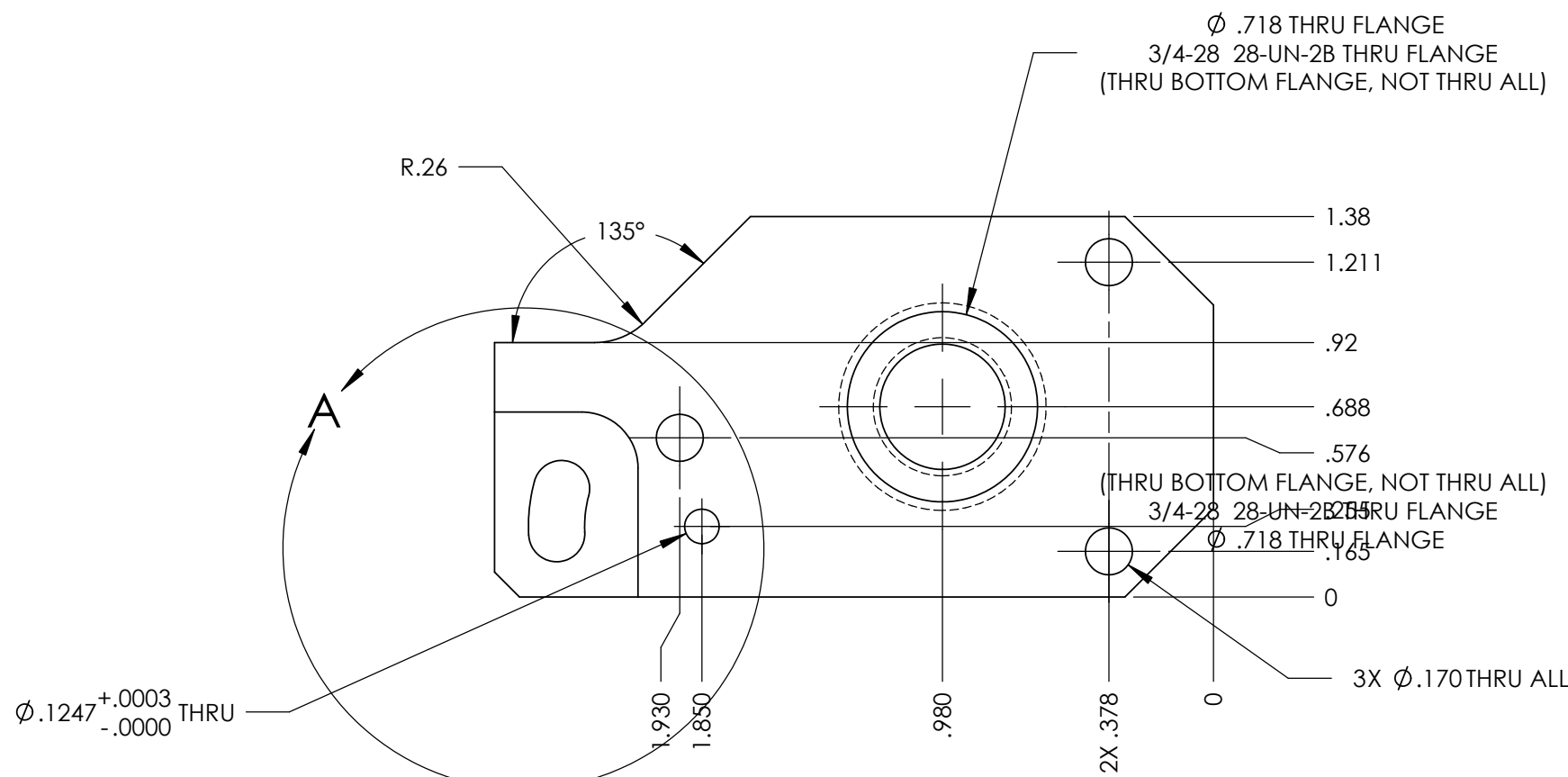
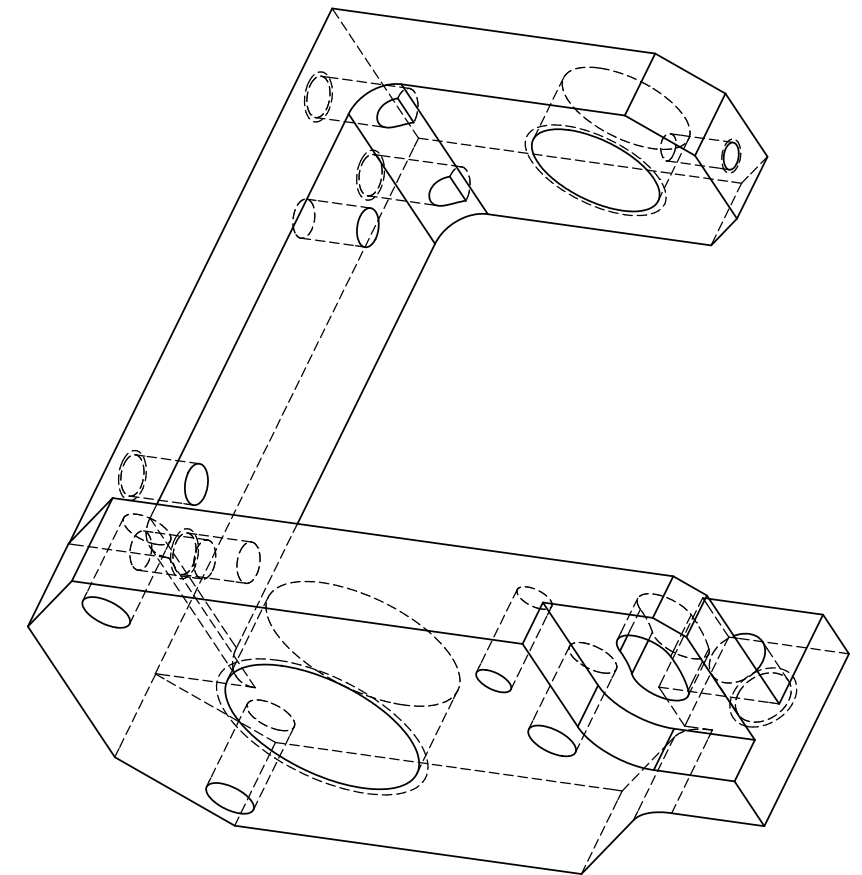
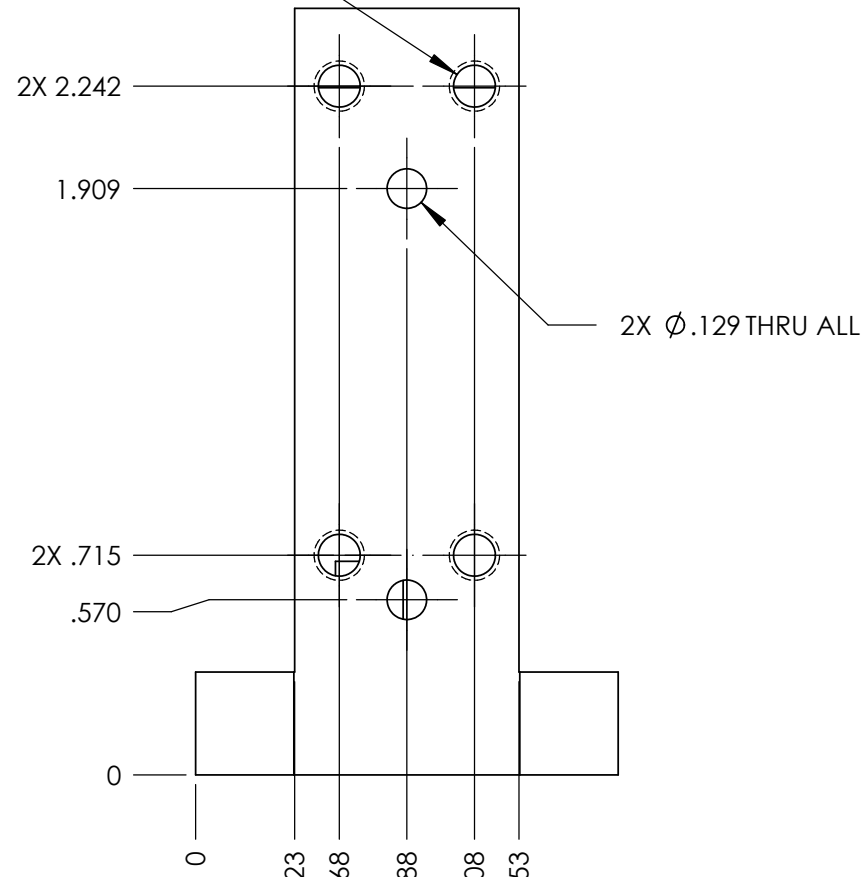


Ø.089 $\pm$.299
4-40 UNC - 2B ∇ .224 MIN
(THRU TO TAPPED HOLE)

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



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



ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
1	1002562-001	small rotary valve base	6061-T6 Aluminum	-
BILL OF MATERIALS			last updated on Tuesday, March 22, 2005 11:38:30 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		
Inspector		APPROVALS DATE ENGINEER Jason Feldman 831-775-1837		
Shop Foreman		CHECKED 7700 Sandholdt Road Moss Landing, CA 95039		
Engineer		PROJECT NUMBER 701312.00		
NEXT ASSY Description	NEXT ASSY Number	PROJECT ESP 2G		
		SIZE C		
		DWG. NO. 1002562		
		REV. E		
DO NOT SCALE DRAWING		SHEET 2 OF 6		

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1002562 - 002 SMALL ROTARY VALVE BASE - small Hamilton

$\phi .272$ THRU ALL
5/16-24 UNF - 2B THRU BOTTOM FLANGE

$\phi .625 \nabla .180$

2X 1.93

2X 1.124

2X $\phi .129$ THRU ALL

2X $\phi .136$ THRU ALL
8-32 UNC - 2BTHRU ALL

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

2X $\phi .136$ THRU ALL
8-32 UNC - 2BTHRU ALL

1.66

.85

2X .688

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

1002562 - 006 CCTV bracket

$\phi .201 \nabla .670$ MIN
1/4-20 UNC - 2B $\nabla .520$ MIN

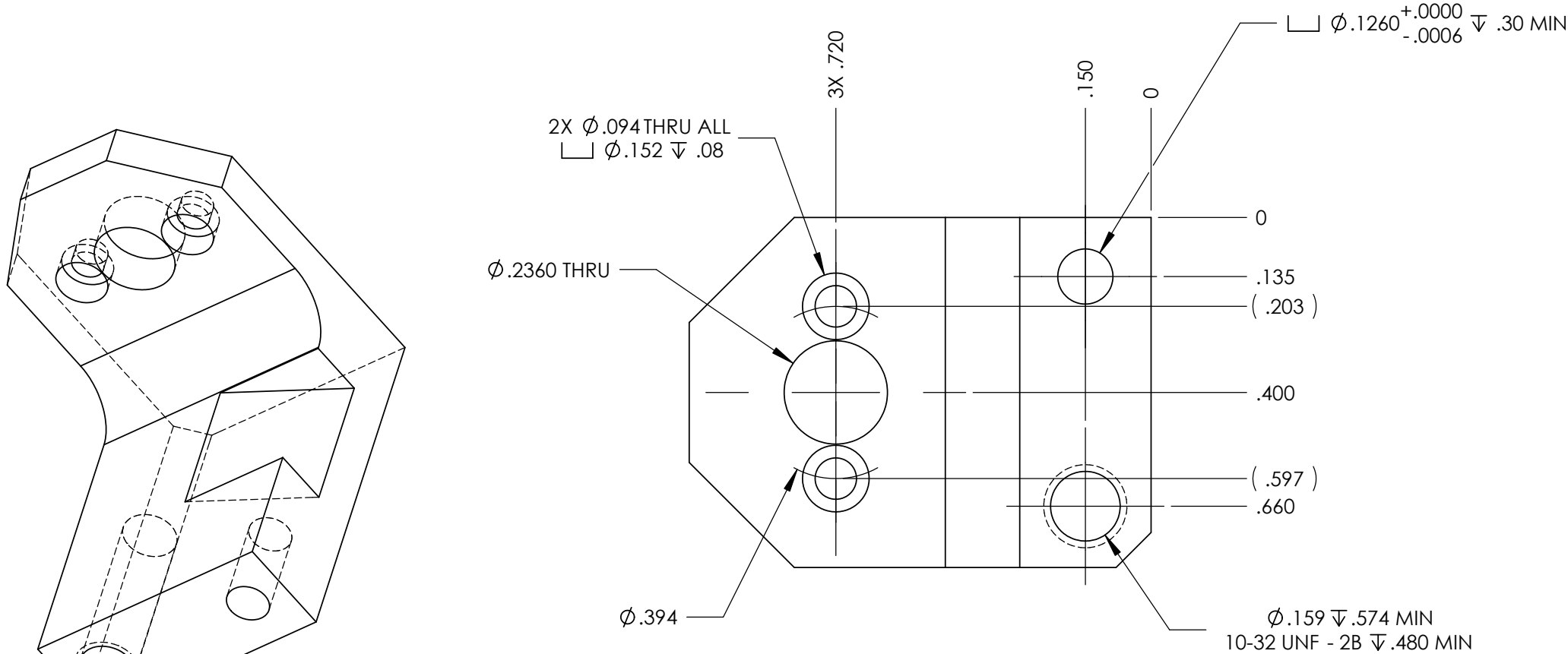
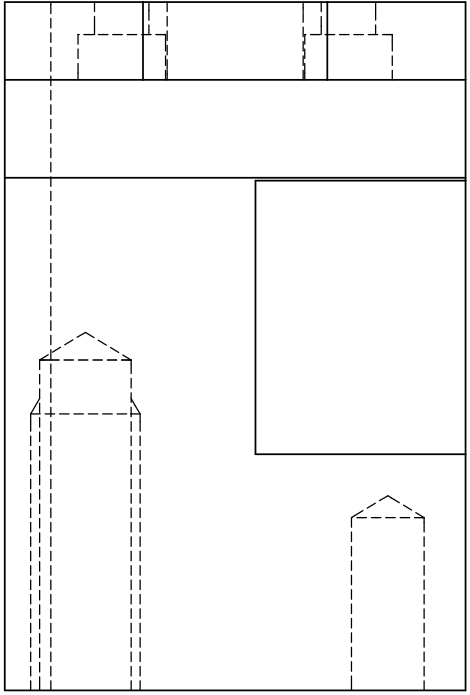
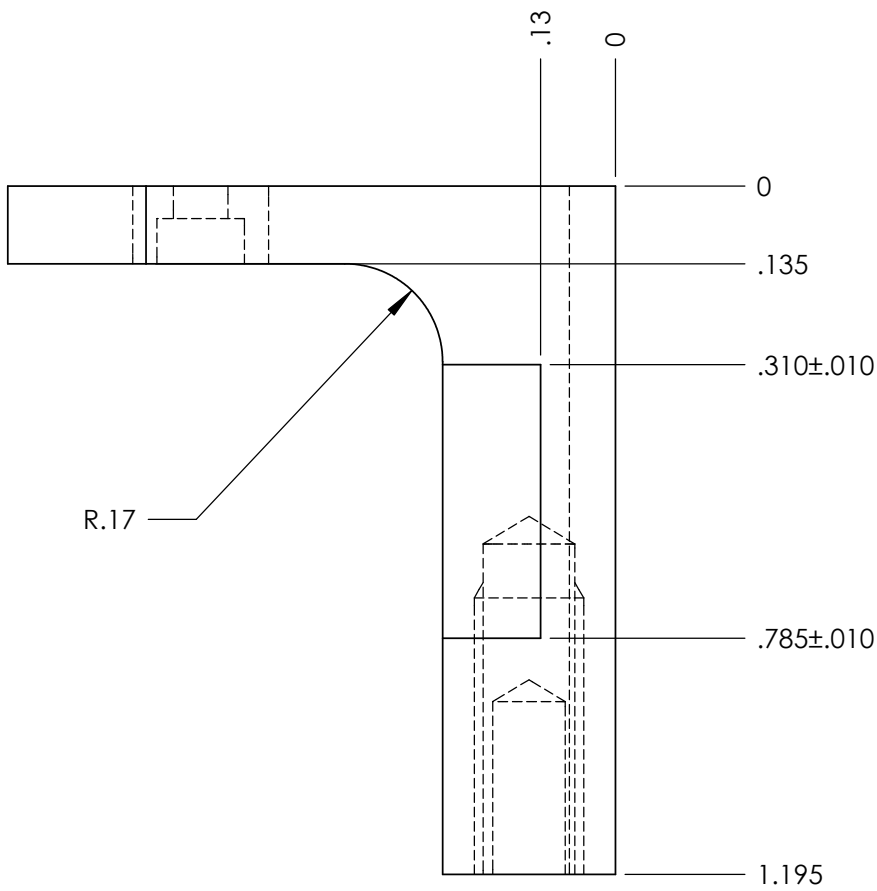
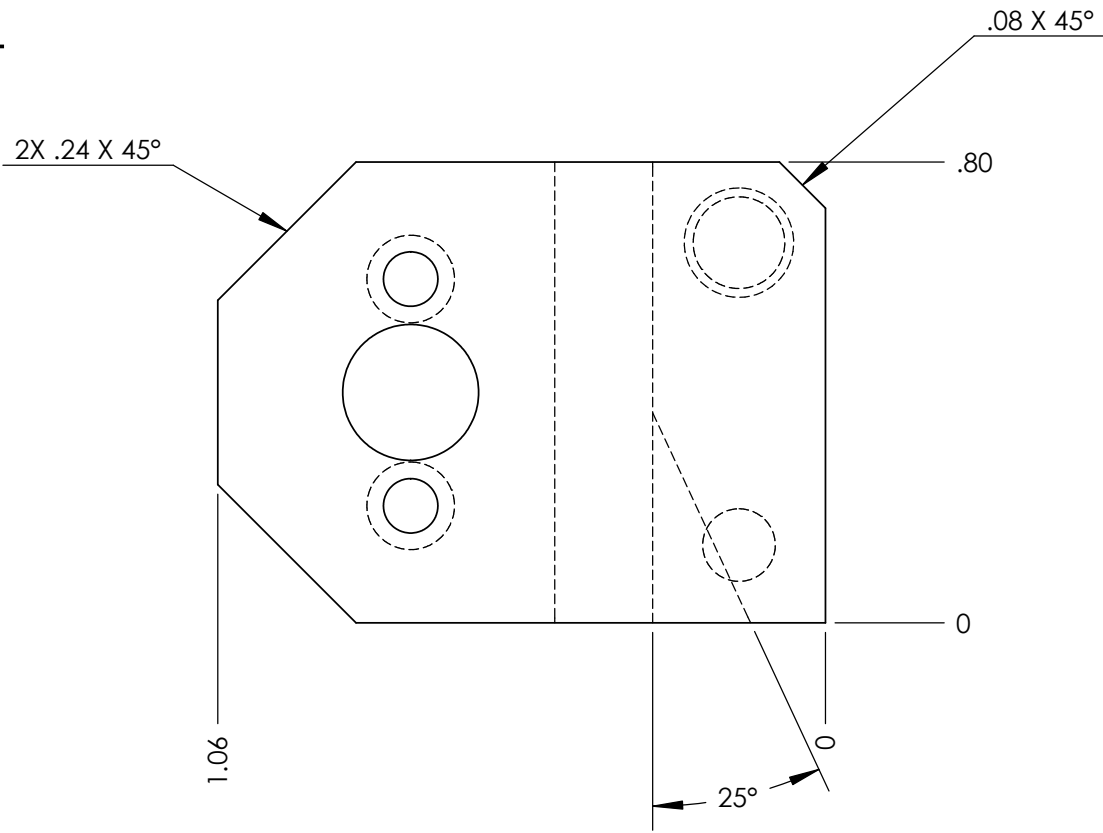
2X $\phi .102$ THRU ALL
5-40 UNC - 2BTHRU ALL

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: Tuesday, March 22, 2005 11:38:30 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	4 PLACE DIM ±.0005
Shop Foreman		ANGLES ±1°		
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		
NEXT ASSY Description	NEXT ASSY Number	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		
DO NOT SCALE DRAWING		APPROVALS DATE ENGINEER Jason Feldman 831-775-1837 CHECKED PROJECT NUMBER 701312.00 PROJECT ESP 2G CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)		
		Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039 Small Rotary Valve SIZE C DWG. NO. 1002562 REV. E		
				
		SHEET 3 OF 6		

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1002562 - 003
ROTARY VALVE MOTOR MOUNT



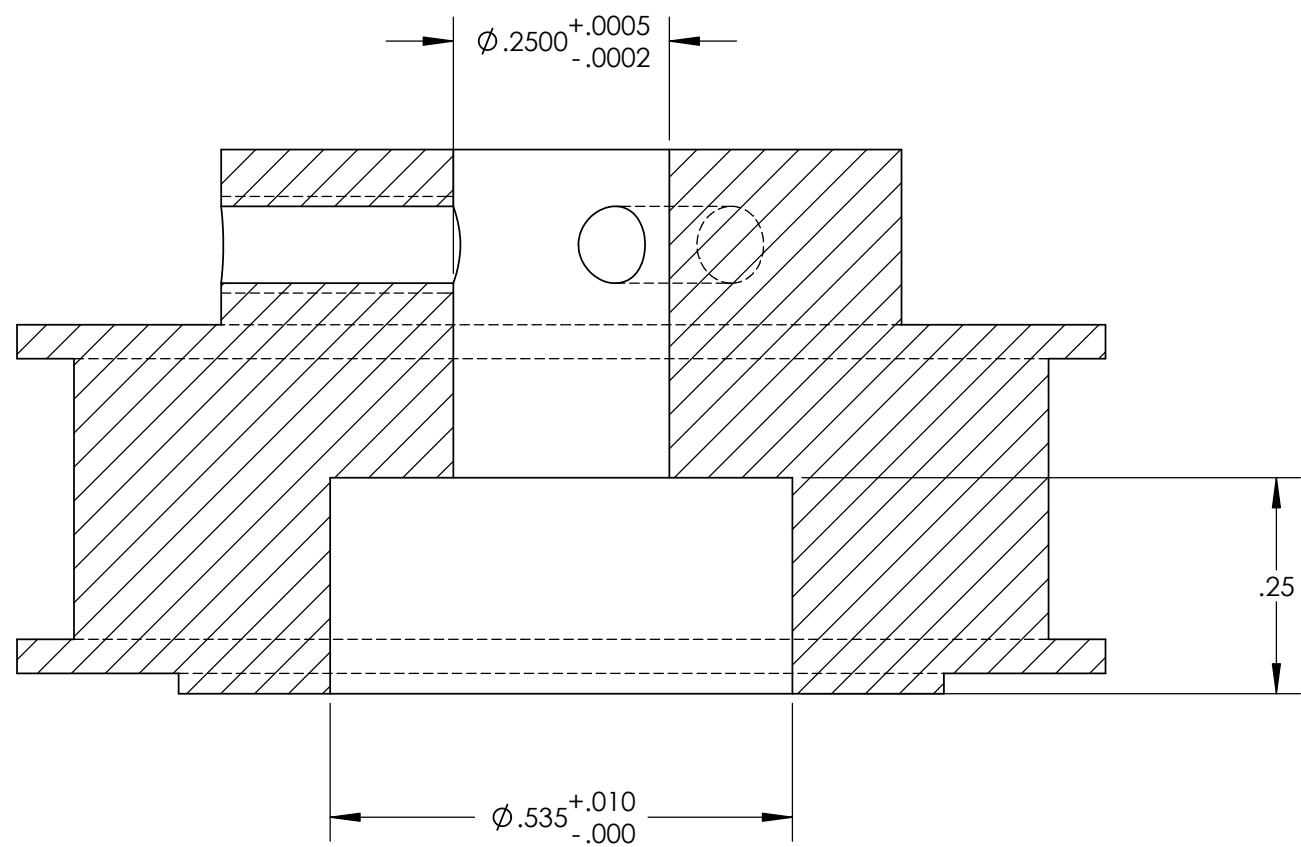
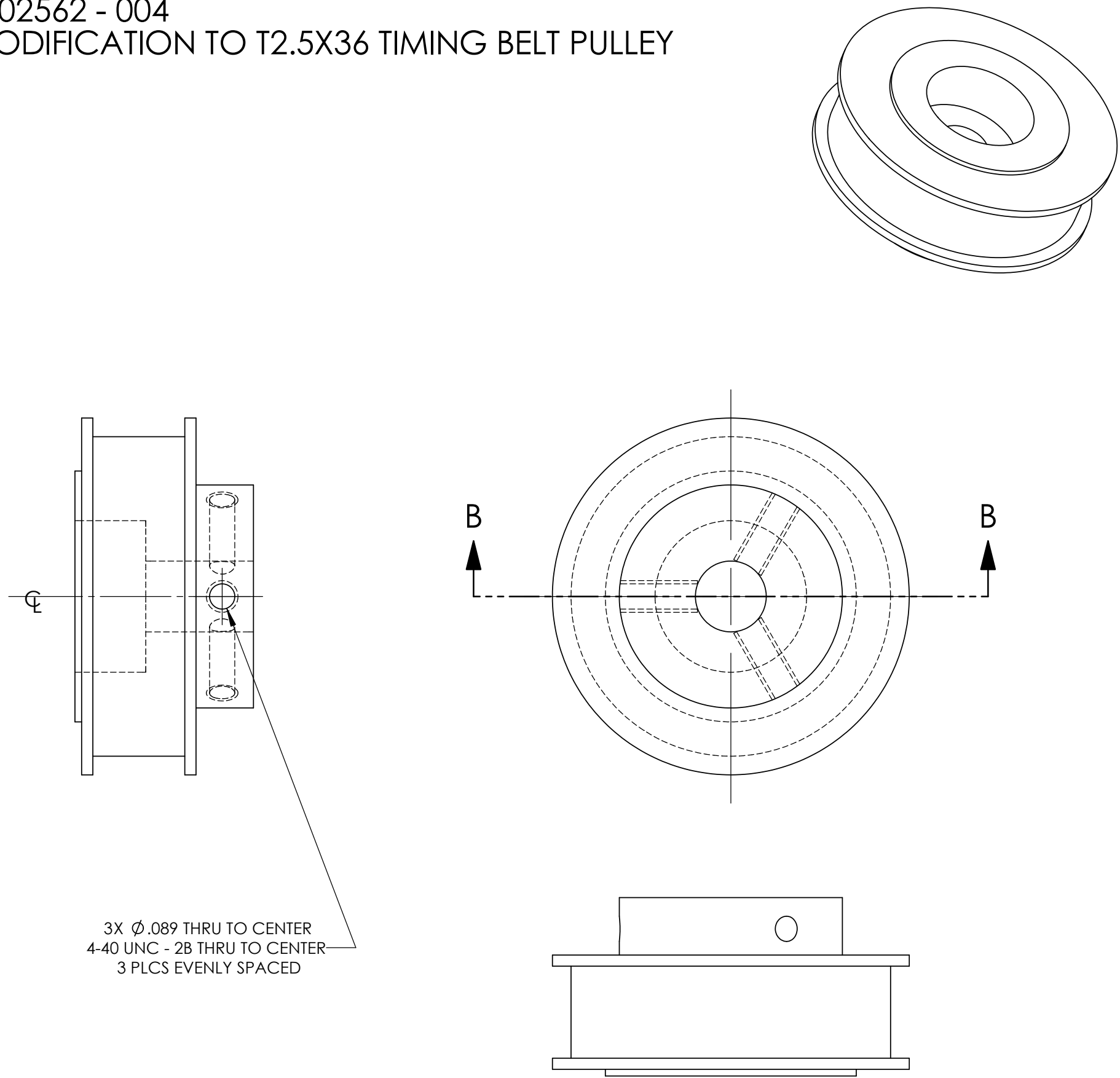
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
3	1002562-003	motor mount	6061-T6 Aluminum	6

BILL OF MATERIALS				last updated on: Tuesday, March 22, 2005 11:38:30 AM	
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	NEXT ASSY Number	3. REMOVE BURRS & SHARP EDGES .010 MAX		PROJECT NUMBER 701312.00	
		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 6	



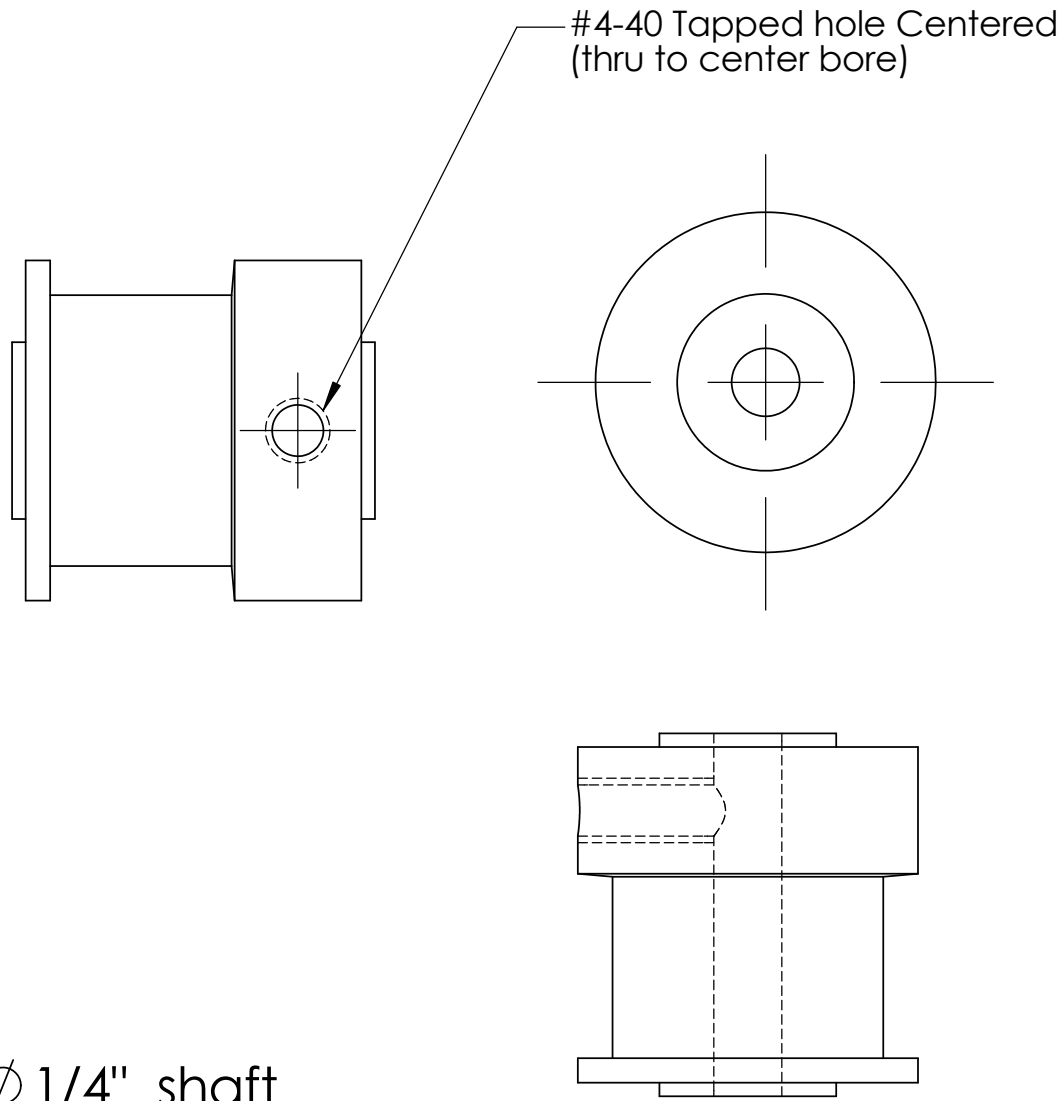
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1002562 - 004
MODIFICATION TO T2.5X36 TIMING BELT PULLEY

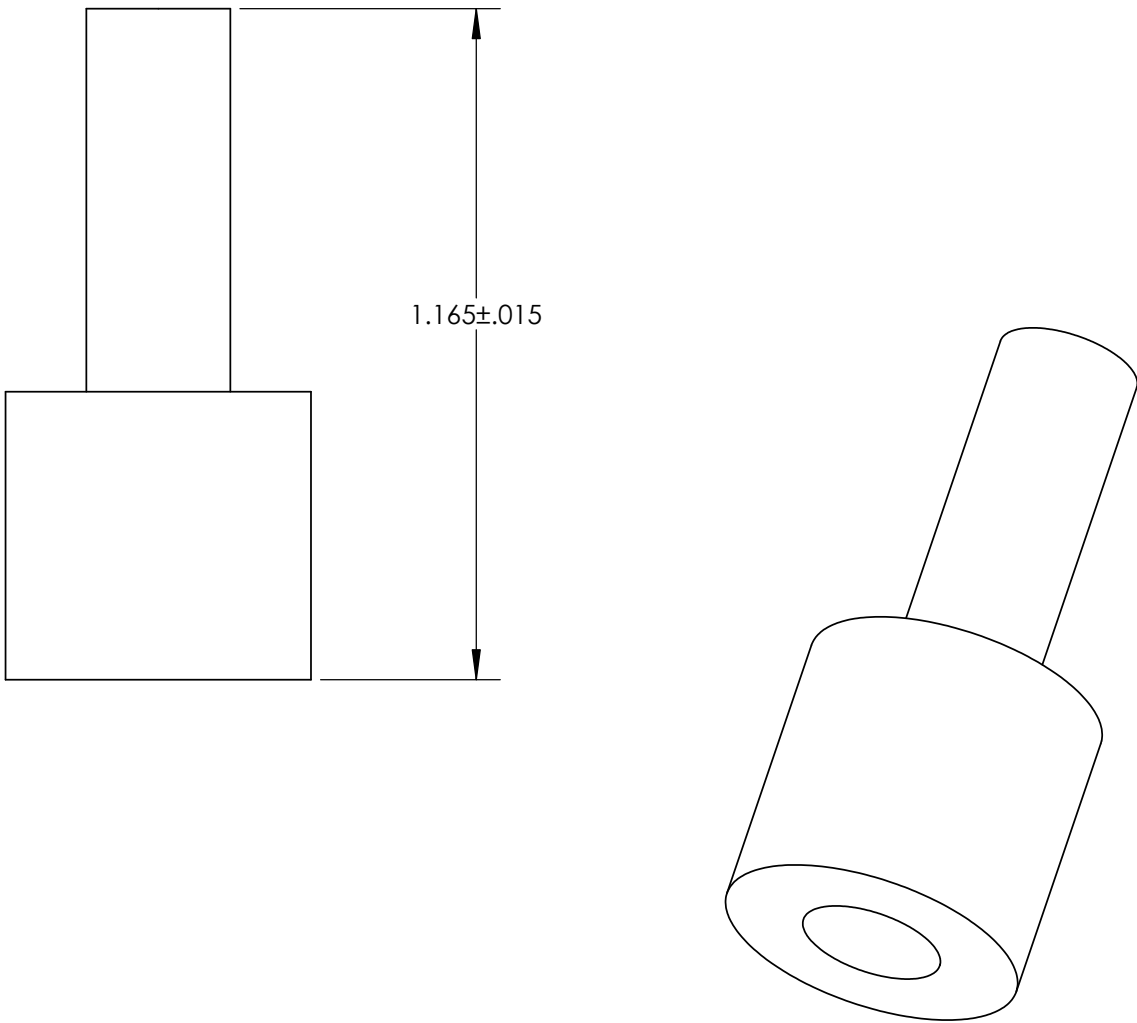


SECTION B-B

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

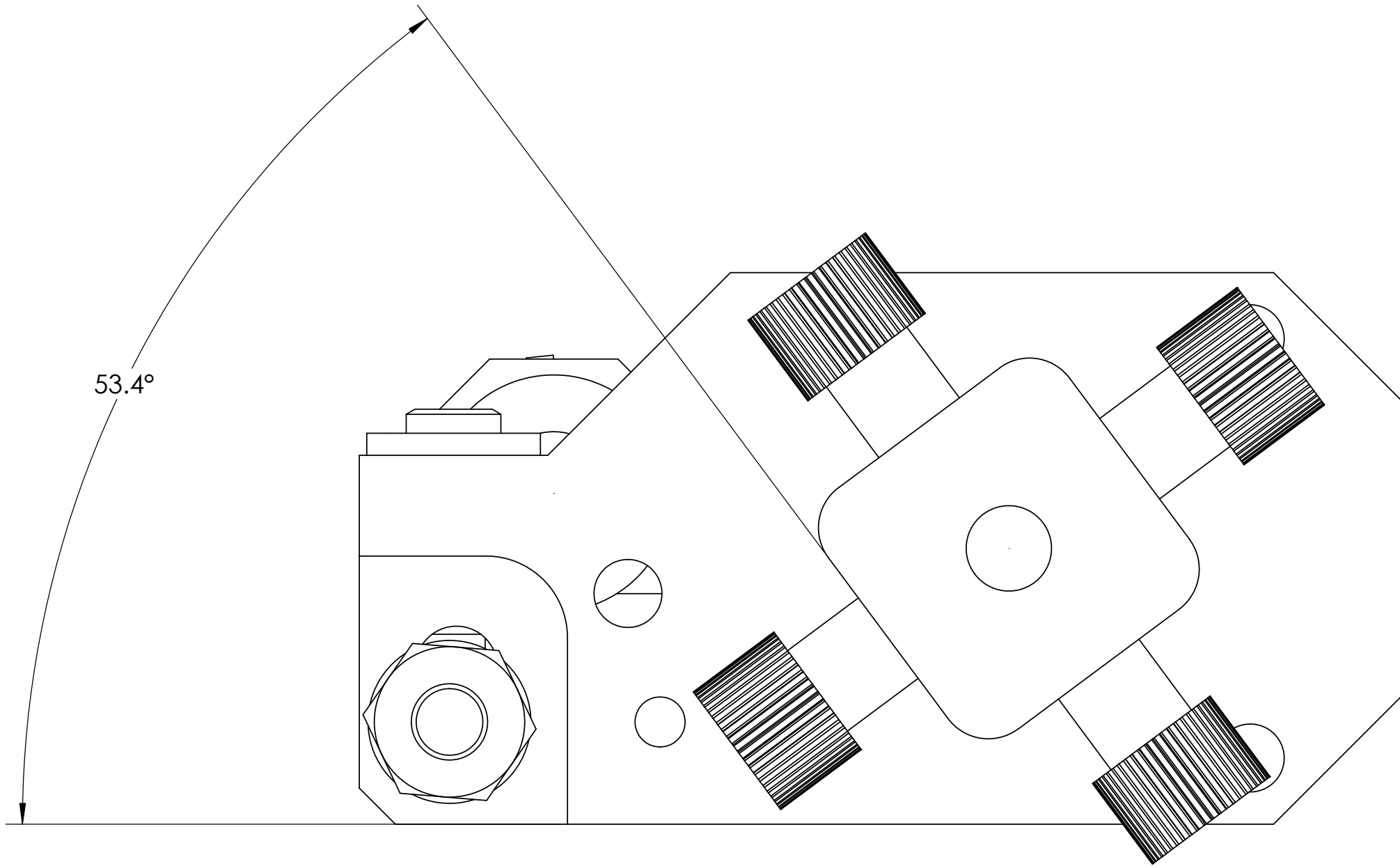


Fairloc shat extender - for Ø 1/4" shaft
MODIFICATION



BILL OF MATERIALS						last updated on: Tuesday, March 22, 2005 11:38:30 AM					
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°	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				CHECKED					
Engineer						PROJECT NUMBER 701312.00					
NEXT ASSY Description	NEXT ASSY Number					Small Rotary Valve					
						SIZE C	DWG. NO. 1002562				
						REV. E					
						CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)					
DO NOT SCALE DRAWING						SHEET 5 OF 6					
						Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039					
											

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BILL OF MATERIALS						last updated on: Tuesday, March 22, 2005 11:38:30 AM					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039 	
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	4 PLACE DIM ±.0005	ANGLES ±1°	ENGINEER Jason Feldman 831-775-1837		CHECKED			
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				PROJECT NUMBER 701312.00		Small Rotary Valve			
Engineer						PROJECT ESP 2G		SIZE C			
NEXT ASSY Description	NEXT ASSY Number					CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)		SHEET 6 OF 6			
DO NOT SCALE DRAWING											

