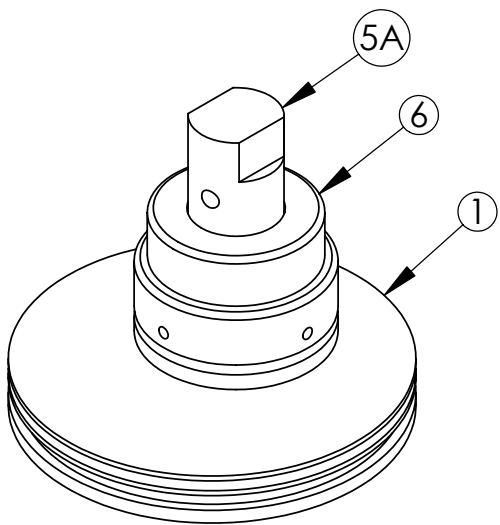
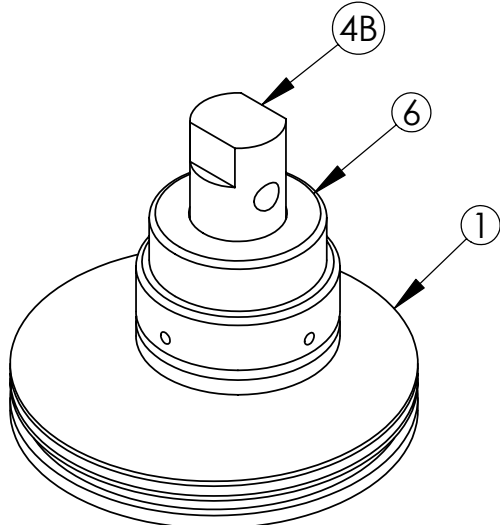


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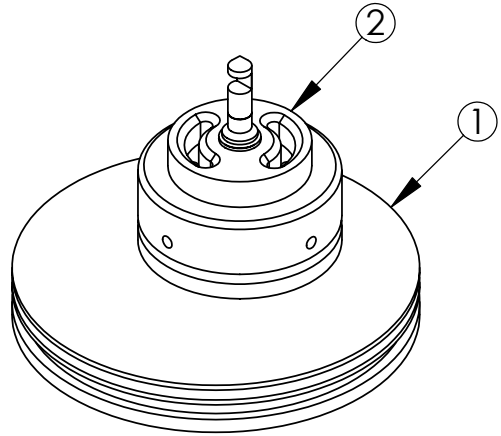
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	128JAH.A.DWG	7/8/02
A	3 - C TECH PROBE TIP LENGTHS	J. SCHOLFIELD	4/8/03
B	C TECH FLOWCELL TIP RELIEF	J. SCHOLFIELD	5/23/03



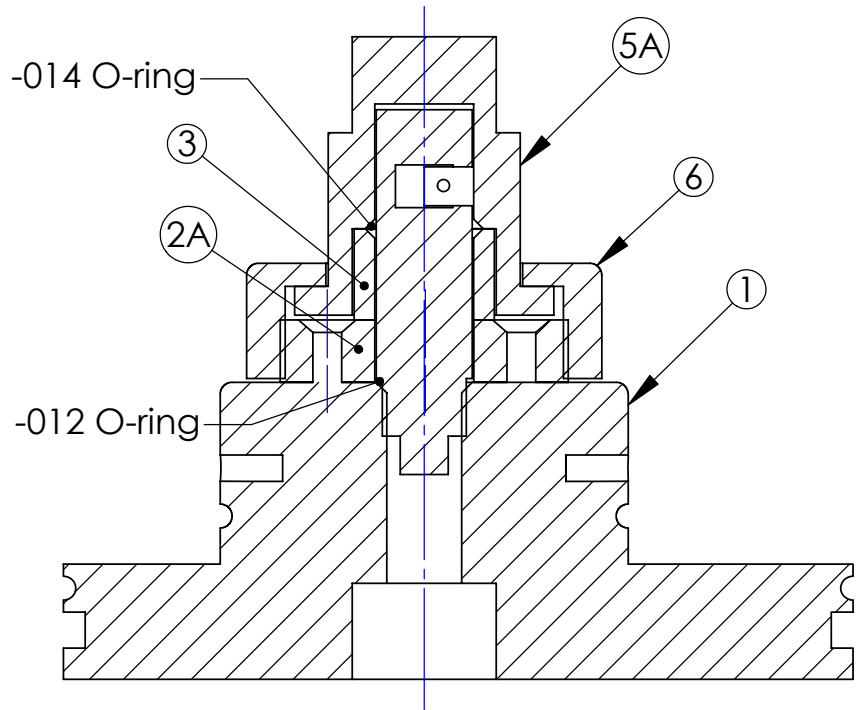
EquiTech Probe
with 1/4-28 connections



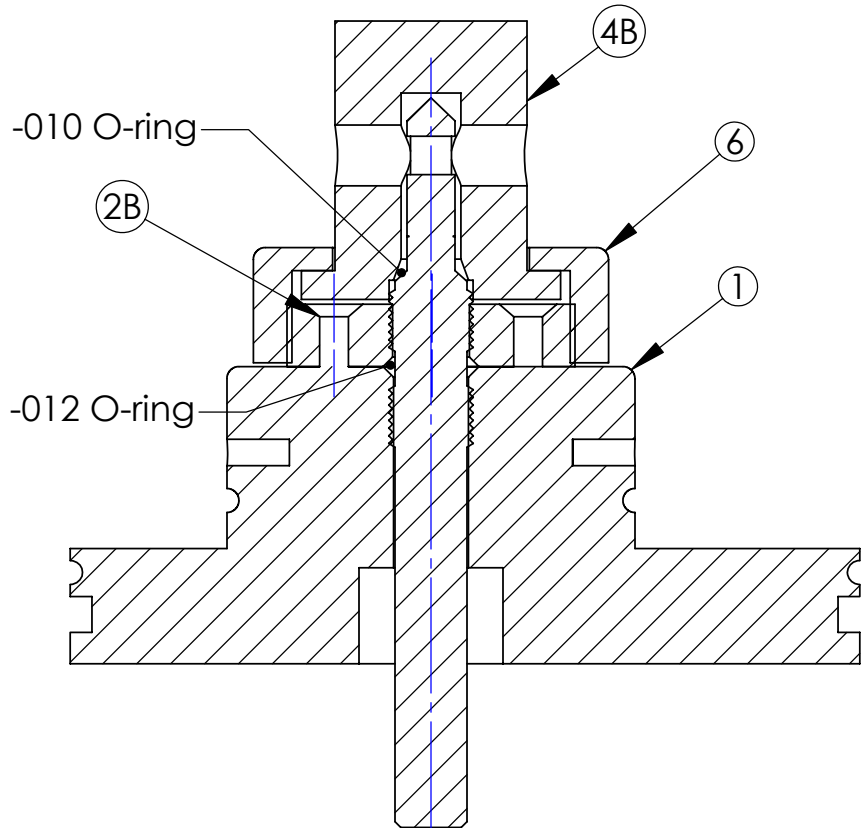
C-Tech Probe
with 1/8" NPT connection



C-Tech Probe
Exposed probe



SECTION
EquiTech Probe
with 1/4-28 connections



SECTION
C-Tech Probe
with 1/8" NPT connection

Note 7
O-rings:
EquiTech Probe: -012 and -014
C-Tech Probe: -010 and -012

SHEET 1 - CROSS SECTIONS

6			Lock ring	PEEK
5			Equitech flowcell (Config A and B)	PEEK
4			C-tech flowcell (Config A and B)	PEEK
3			Probe riser	PEEK
2			Probe nut (Config A and B)	PEEK
1			Endcap	Polycarbonate (see 123jaha.DWG)
ITEM NO.	QTY	PART NO.	DESCRIPTION	MATERIAL SPECIFICATION

BILL OF MATERIALS				
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS	
1 PLACE DIM ±1/16			DATE	
2 PLACE DIM ±.02			DRAWN	
3 PLACE DIM ±.005			Hans Jannasch 7/8/02	
ANGLES ±1°			ENGINEER	
1. DIMENSIONS ARE IN INCHES			CHECKED	
2. DIMENSION LIMITS HELD AFTER PLATING.			PROJECT NO.	
3. REMOVE BURRS AND SHARP EDGES .015 MAX.			600144	
4. MACHINED FILLET RADII .0150-.030.			PROJECT	
5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005			Chemical Sensors	
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.			SIZE B	
DO NOT SCALE DRAWING			DWG. NO.	
			1001897.DWG	
			REV. B	
SCALE			CAD FILE: TORNADO/CHEM/SWFILES	
			SHEET 1 OF 5	

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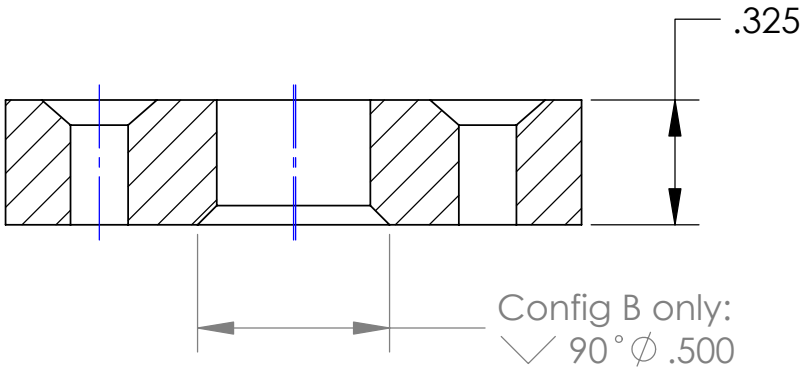
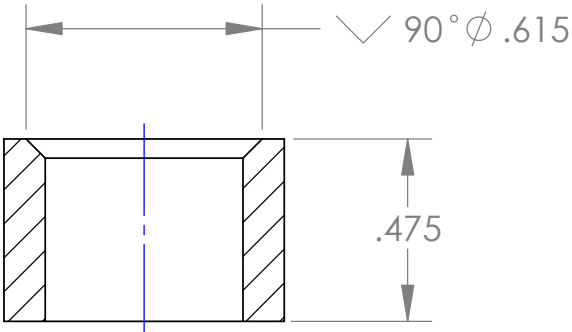
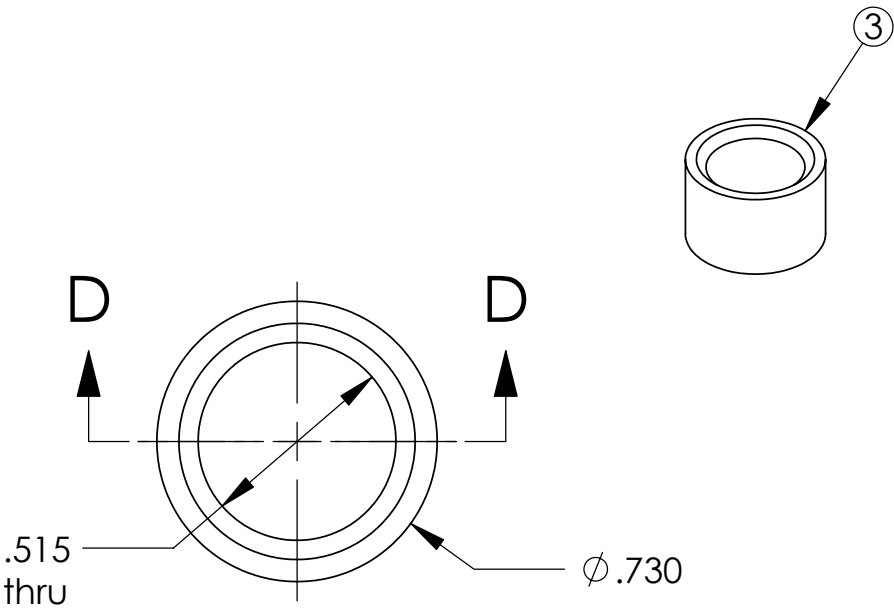
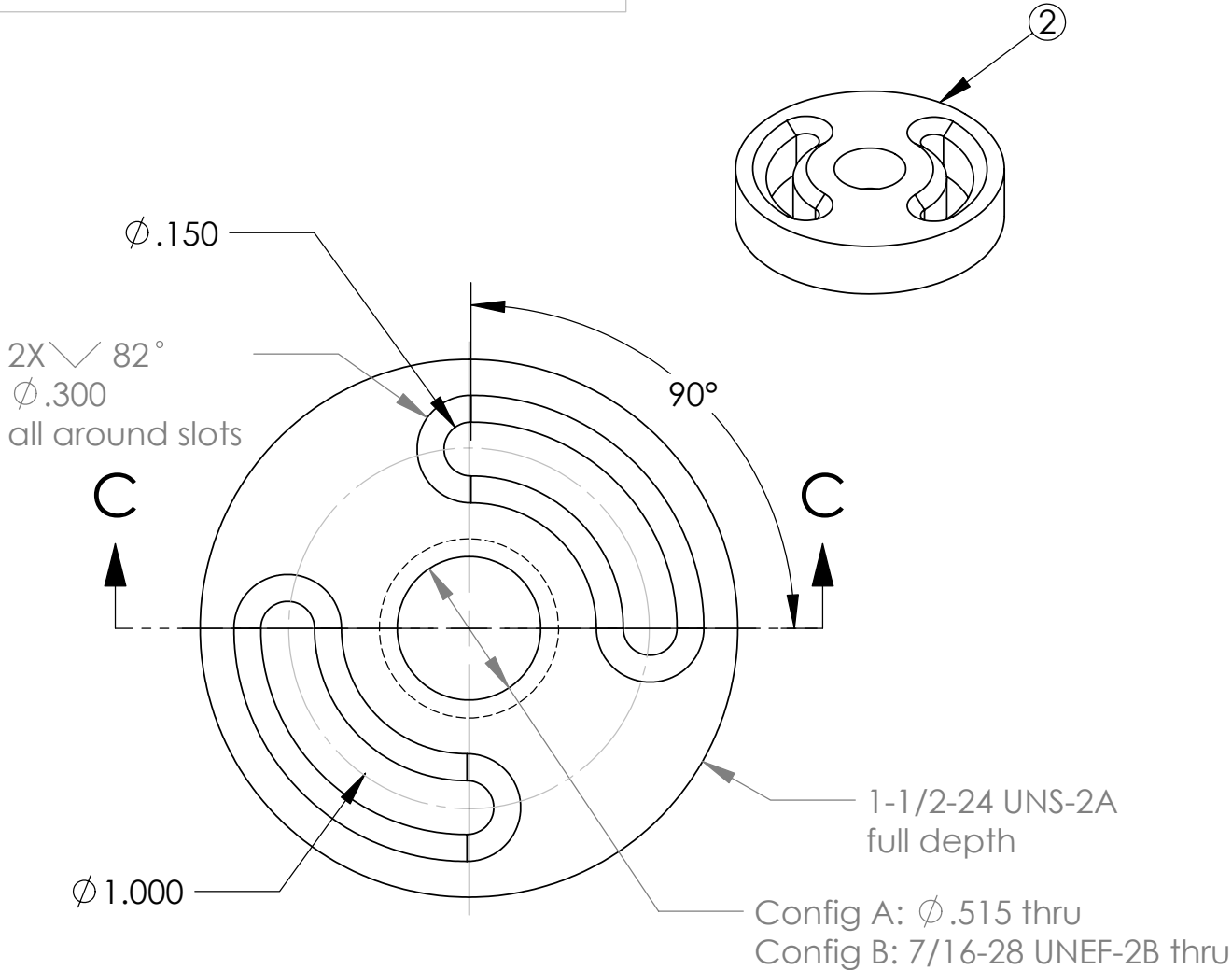
M B A R I



C Tech 2-4cm & Equitech Flowcell			
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	128JAH.A.DWG	7/8/02
A	3 - C TECH PROBE TIP LENGTHS	J. SCHOLFIELD	4/8/03
B	C- TECH FLOWCELL TIP RELIEF	J. SCHOLFIELD	5/23/03



SECTION D-D

SECTION C-C

SHEET 2 - PROBE NUT

6			Lock ring	PEEK
5			Equitech flowcell (Config A and B)	PEEK
4			C-tech flowcell (Config A and B)	PEEK
3			Probe riser	PEEK
2			Probe nut (Config A and B)	PEEK
1			Endcap	Polycarbonate (see 123jaha.DWG)
ITEM NO.	QTY	PART NO.	DESCRIPTION	MATERIAL SPECIFICATION
BILL OF MATERIALS				
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS	DATE
1 PLACE DIM $\pm .016$	2 PLACE DIM $\pm .02$	3 PLACE DIM $\pm .005$	ANGLES $\pm .1$	DRAWN Hans Jannasch 7/8/02
1. DIMENSIONS ARE IN INCHES			ENGINEER	
2. DIMENSION LIMITS HELD AFTER PLATING.			CHECKED	
3. REMOVE BURRS AND SHARP EDGES .015 MAX.			PROJECT NO. 600144	
4. MACHINED FILLET RADII .0150-.030.			PROJECT Chemical 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.			SCALE	
NEXT ASSY			USED ON	
APPLICATION			DO NOT SCALE DRAWING	
			CAD FILE: TORNADO/CHEM/SWFILES	
			SHEET 2 OF 5	

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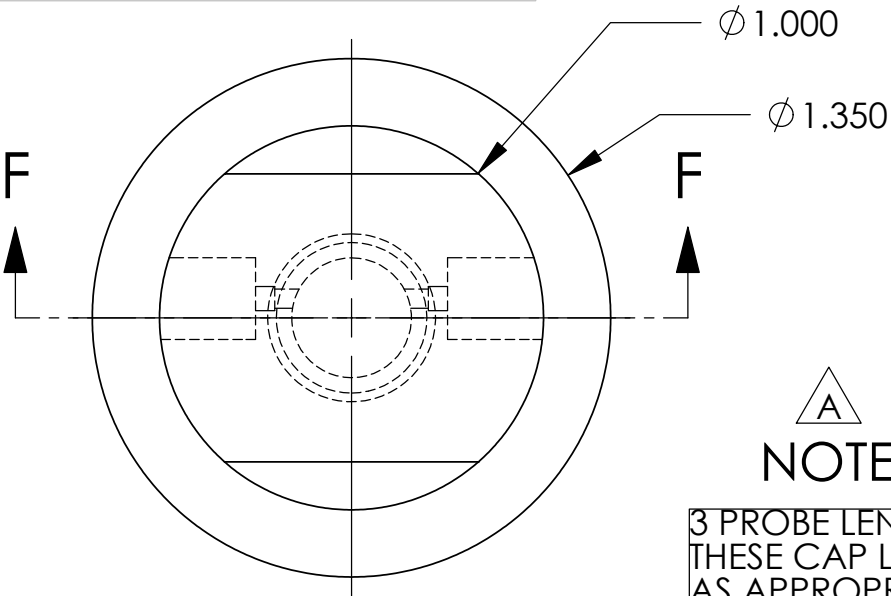


C Tech 2-4cm & Equitech Flowcell

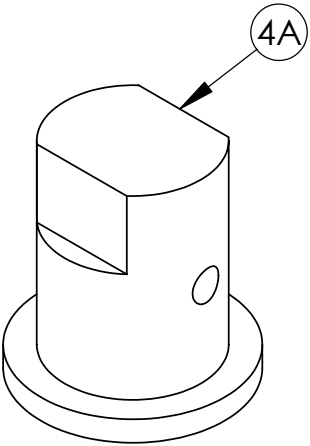
SIZE B DWG. NO. 1001897.DWG REV. B

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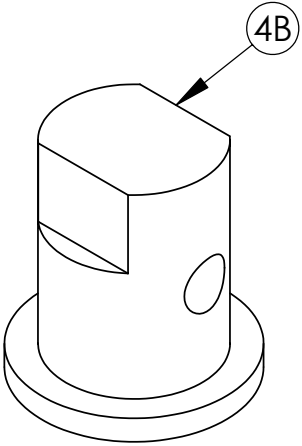
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	128JAHA.DWG 7/8/02	
A	3 - C TECH PROBE TIP LENGTHS	J. SCHOLFIELD 4/8/03	
B	C- TECH FLOWCELL TIP RELIEF	J. SCHOLFIELD 5/23/03	



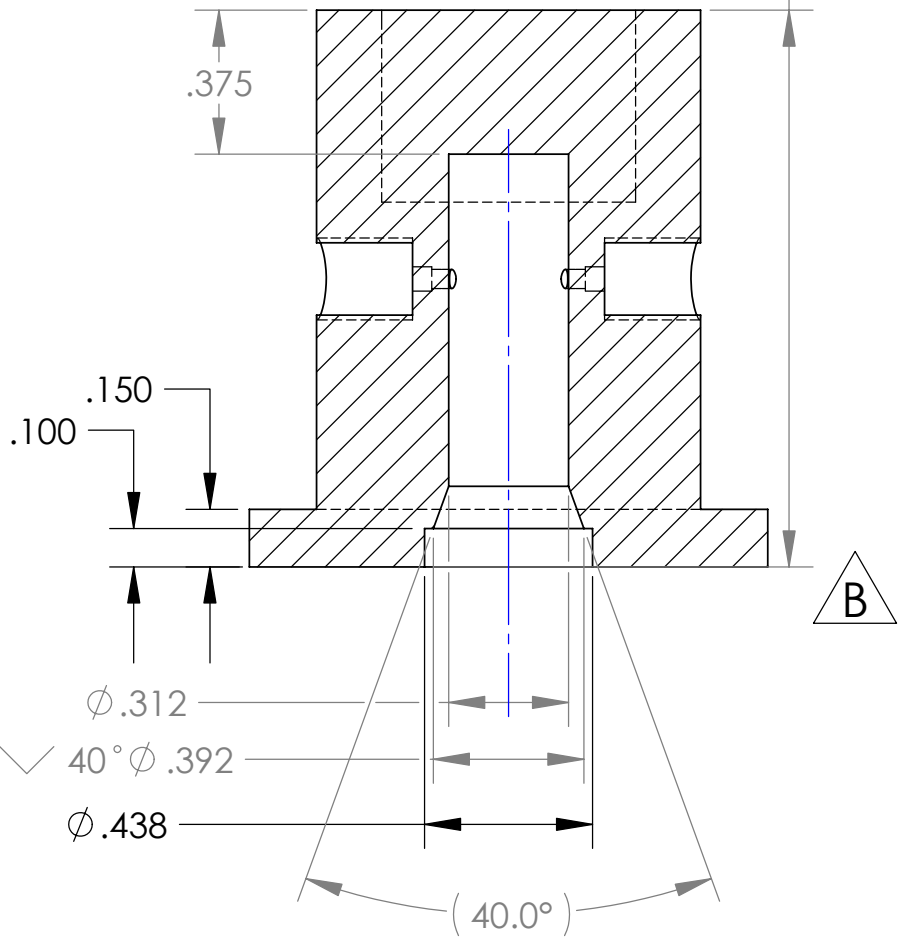
NOTE:
3 PROBE LENGTHS AVAIL.
THESE CAP LENGTHS REQ'D
AS APPROPRIATE
1.450, 1.647, 2.041
1/8" NPT SIMILAR



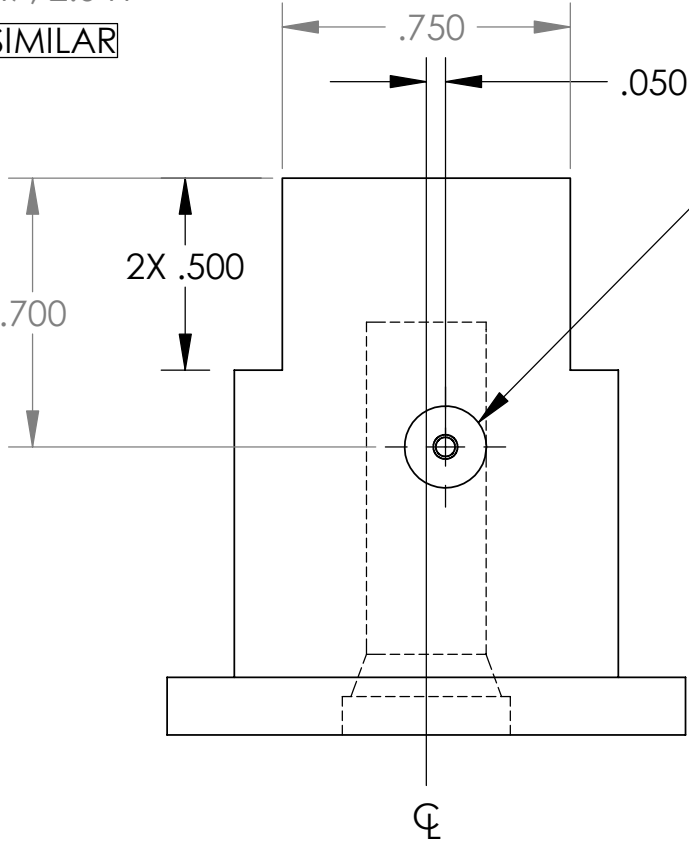
1/4- 28 UNF



1/8" FNPT



SECTION F-F



Config A (1/4-28))
2X $\phi .213 \downarrow .250$
tap 1/4-28 UNF-2B $\downarrow .200$
Bottom flat to .002
 $\phi .063 \downarrow .300$
 $\phi .050$ thru

Config B (1/8" NPT)
 $\phi .332$ thru
2X tap 1/8"-27 NPT (both sides)

SHEET 3 -C TECH FLOWCELL VARIATIONS

6			Lock ring	PEEK
5			Equitech flowcell (Config A and B)	PEEK
4			C-tech flowcell (Config A and B)	PEEK
3			Probe riser	PEEK
2			Probe nut (Config A and B)	PEEK
1			Endcap	Polycarbonate (see 123jaha.DWG)
ITEM NO.	QTY	PART NO.	DESCRIPTION	MATERIAL SPECIFICATION
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				
1 PLACE DIM $\pm .016$	2 PLACE DIM $\pm .02$	3 PLACE DIM $\pm .005$	ANGLES $\pm .1$	
1. DIMENSIONS ARE IN INCHES			APPROVALS	DATE
2. DIMENSION LIMITS HELD AFTER PLATING.			DRAWN	7/8/02
3. REMOVE BURRS AND SHARP EDGES .015 MAX.			Hans Jannasch	
4. MACHINED FILLET RADII .0150-.030.			ENGINEER	
5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005			CHECKED	
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.			PROJECT NO.	600144
			PROJECT	Chemical Sensors
			WEIGHT	
			SCALE	CAD FILE: TORNADO/CHEM/SWFILES
			SIZE B	DWG. NO. 1001897.DWG
			REV. B	

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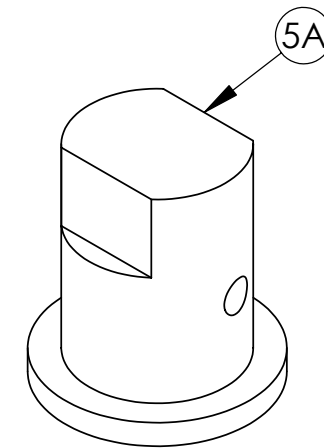
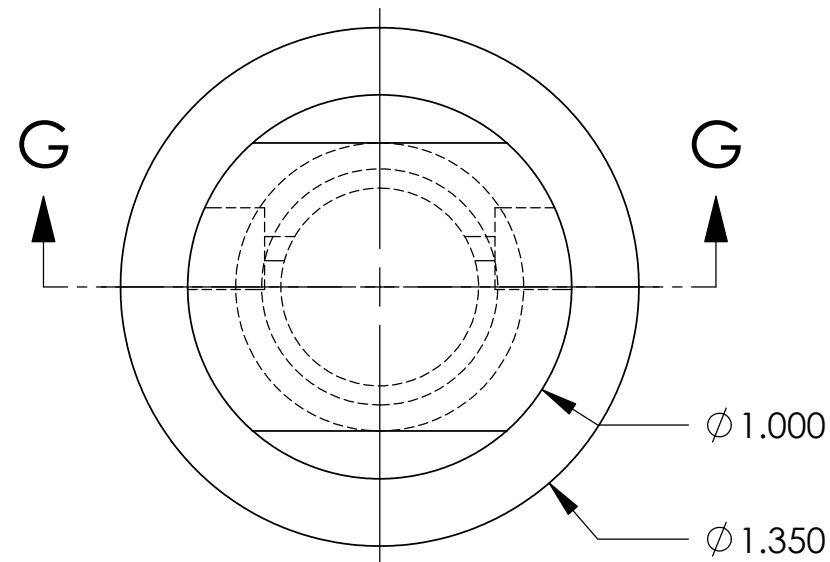
C Tech 2-4cm & Equitech Flowcell

DO NOT SCALE DRAWING

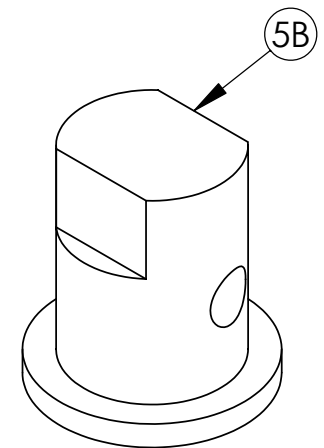
SHEET 3 OF 5

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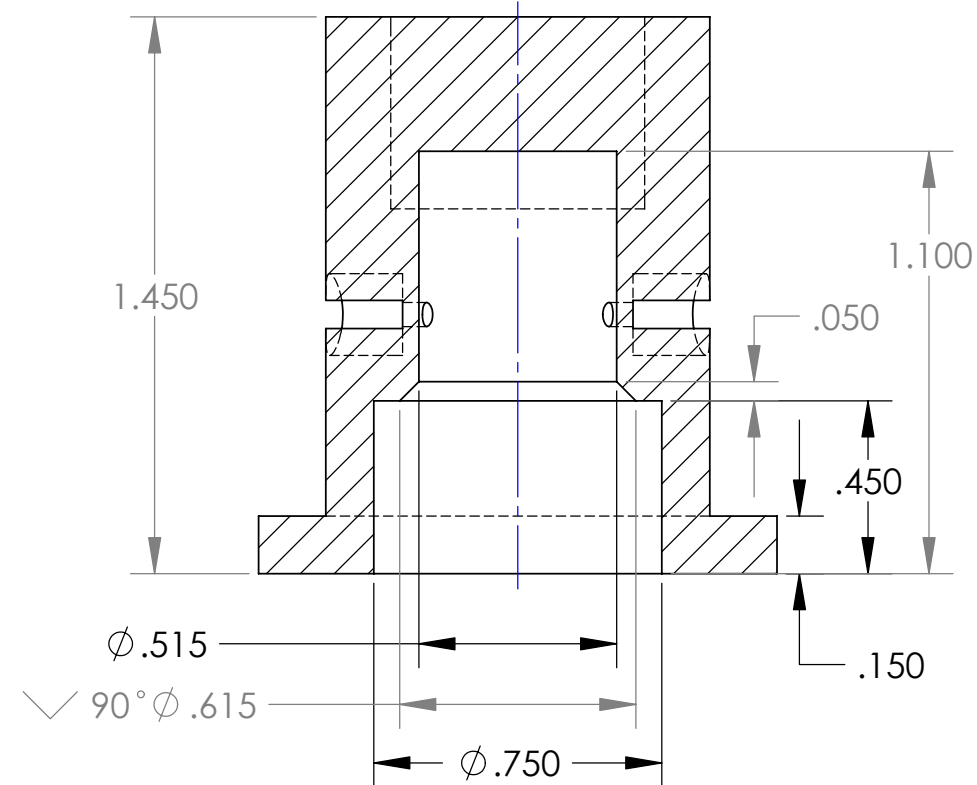
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	128JAH.DWG	7/8/02
A	3 - C TECH PROBE TIP LENGTH	J. SCHOLFIELD	4/8/03
B	C TECH FLOWCELL TIP RELIEF	J. SCHOLFIELD	5/23/03



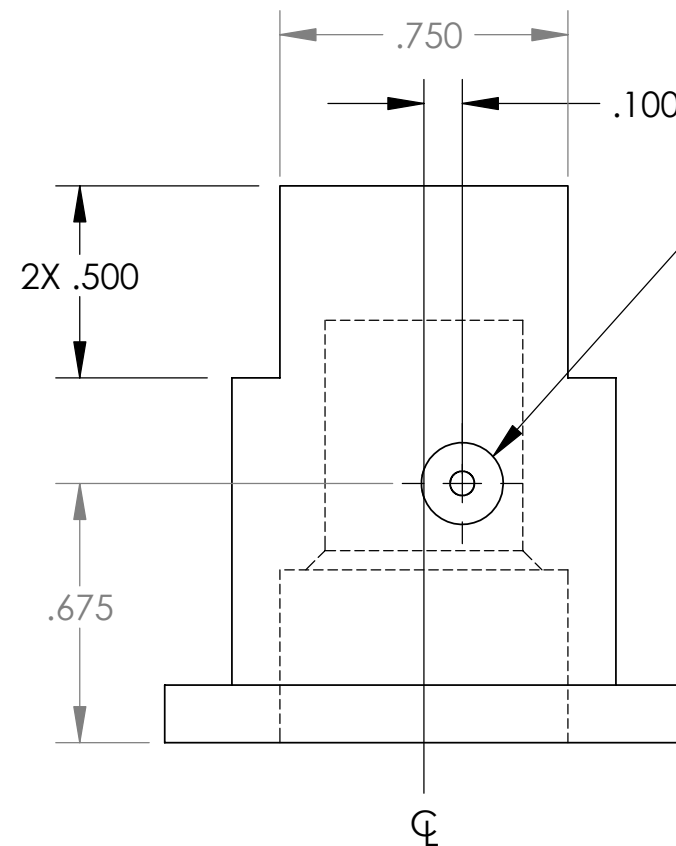
1/4-28 UNF



1/8" NPT



SECTION G-G



— Config A (1/4-28)
2X  ϕ .213 ∇ .250
tap 1/4-28 UNF-2B ∇ .200
Bottom flat to .002
 ϕ .063 thru

Config B (1/8" NPT)
 ϕ .332 thru
 2X tap 1/8"-27 NPT (both sides)

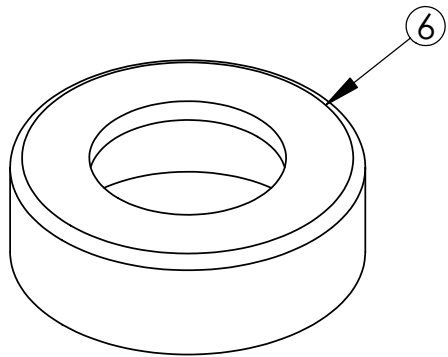
SHEET 4- EQUITECH FLOWCELL TOP

6		Lock ring	PEEK
5		Equitech flowcell (Config A and B)	PEEK
4		C-tech flowcell (Config A and B)	PEEK
3		Probe riser	PEEK
2		Probe nut (Config A and B)	PEEK
1		Endcap	Polycarbonate (see 123jaha.DWG)
ITEM NO.	QTY	PART NO.	DESCRIPTION
MATERIAL SPECIFICATION			

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
1 PLACE DIM ±.1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±.1°	DRAWN Hans Janasch	7/8/02		
1. DIMENSIONS ARE IN INCHES				ENGINEER			
2. DIMENSION LIMITS HELD AFTER PLATING.				CHECKED			
3. REMOVE BURRS AND SHARP EDGES .015 MAX.				PROJECT NO.			
4. MACHINED FILLET RADII .0150-.030.				600144			
5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				PROJECT			
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				Chemical Sensors			
DO NOT SCALE DRAWING				WEIGHT			

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C Tech 2-4cm & Equitech Flowcell			
SIZE B	DWG. NO. 1001897.DWG		REV. B
SCALE	CAD FILE: TORNADO/CHEM/SWFILES SHEET 4 OF 5		

REVISIONS				
REV.	DESCRIPTION		DATE	APPROVED
	INITIAL RELEASE		128JAH.DWG	7/8/02
A	3 - CTECH PROBE TIP LENGTH		J. SCHOLFIELD	4/8/03
B	CTECH FLOWCELL TIP RELIEF		J. SCHOLFIELD	5/23/03



6		Lock ring	PEEK
5		Equitech flowcell (Config A and B)	PEEK
4		C-tech flowcell (Config A and B)	PEEK
3		Probe riser	PEEK
2		Probe nut (Config A and B)	PEEK
1		Endcap	Polycarbonate (see 123jaha.DWG)

ITEM NO.	QTY	PART NO.	DESCRIPTION	MATERIAL SPECIFICATION
BILL OF MATERIALS				
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS	DATE
1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Hans Jannasch
1. DIMENSIONS ARE IN INCHES				7/8/02
2. DIMENSION LIMITS HELD AFTER PLATING.				ENGINEER
3. REMOVE BURRS AND SHARP EDGES .015 MAX.				CHECKED
4. MACHINED FILLET RADII .0150-.030.				PROJECT NO.
5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				600144
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX. .012 INCHES FOR SINGLE SURFACE.				PROJECT Chemical Sensors
DO NOT SCALE DRAWING				WEIGHT
Monterey Bay Aquarium Research Institute  7700 Sandholdt RD. Moss Landing, CA 95039 PH: (408) 775-1700				
C Tech 2-4cm & Equitech Flowce				
SIZE B		DWG. NO.		REV.
		1001897.DWG		B
SCALE		CAD FILE: TORNADO/CHEM/SWFILES SHEET 5 OF 5		

SECTION Z-Z