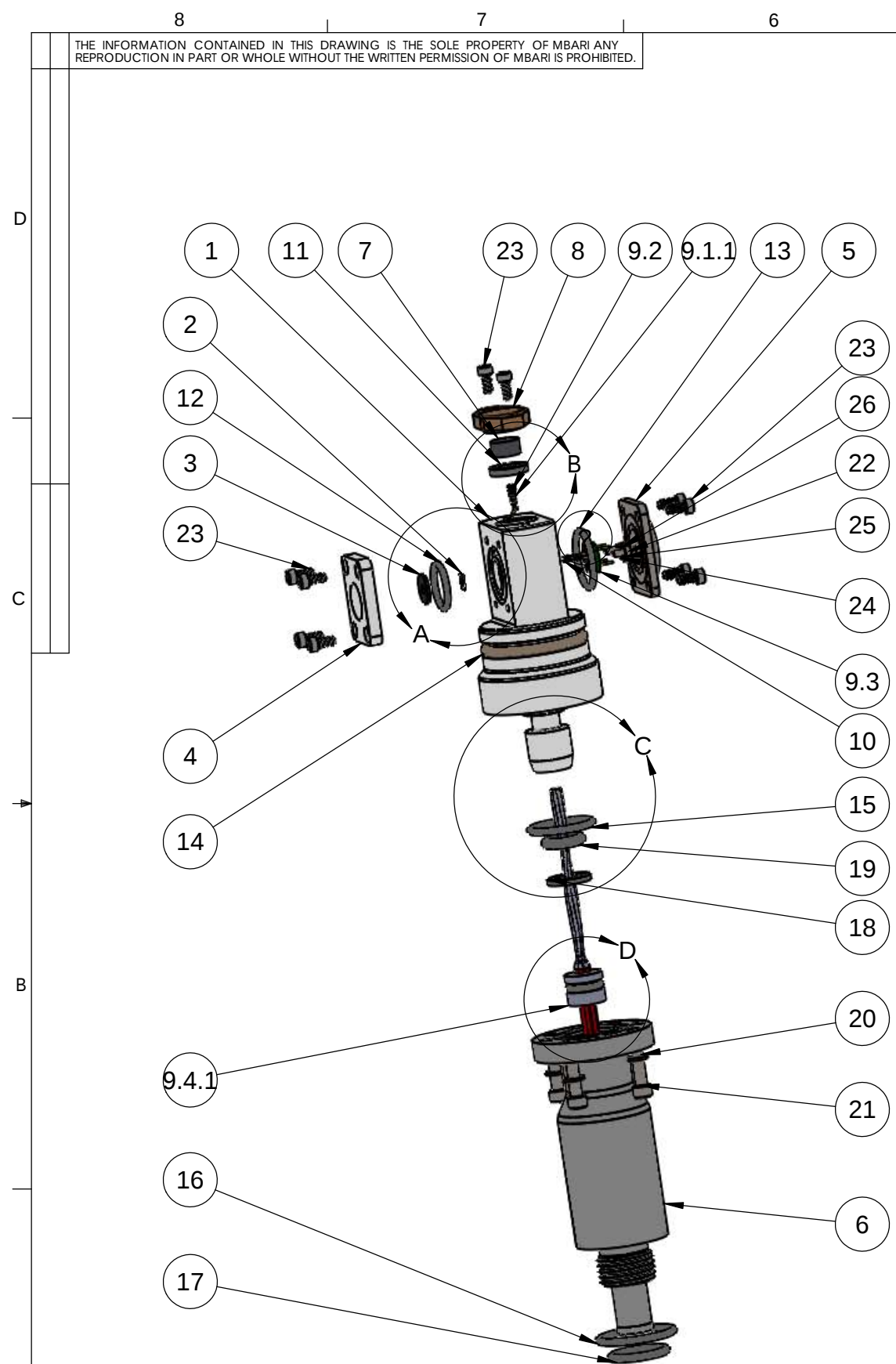
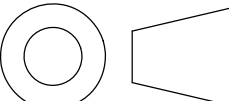




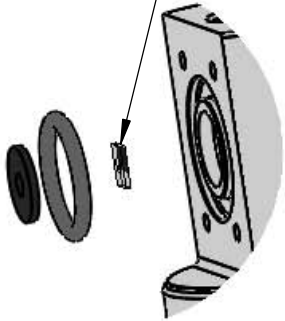
Status: Released to Manufacturing

MBARI BOM						
ITEM NO.	Revision	SW-File Name(File Name)	Vendor	VendorNo	Dwg Num	ASSY. QTY.
1	Q	Housing	MBARI		100221678	1
2	F	DuraFETchip6	MBARI CFE			1
3	F	duraFETFaceGasket_Viton_D75A	McMaster Carr	86075K21	100221683	1
4	F	FrontCoverPlateTailShoulder	MBARI		100221681	1
5	H	backCoverPlate	MBARI		100221684	1
6	G	portAdapter	MBARI		100221685	1
7	G	VLRefPelletAlteredItem	Van London	Chloride ISE Pellet 7.2mm x 4.6mm MBARI-001 use MBARI Pin and Die	100221686	1
8	H	VLRefElectrodeCap	MBARI		100221687	1
9		GDF_Wiring_Harness			100221659	1
9.1	F	VLPelletContact			100221688	1
9.1.1	I	VLPelletContactAlteredItem	Mill-Max	0286-0-00-34-00-00-03-0		1
9.1.2	I	Wlre	Weico	2330		1
9.1.3	I	VLPelletWireSolder	Kester	24-6337-8808 or 24-6337-9756 or AIM SN100C		1
9.2	F	VLPelletFuzzButton	Custom Interconnects	80-075075		1
9.3	E	ISFETInterfaceAssy			100221480	1
9.4	F	PaveTechPenetrator		5535		1
9.4.1	G	PaveTechPenetrator	Pave Technology			1
9.4.2	F	ORingViton-10	Pave Technology			1
10	F	Fuzzbutton	Custom Interconnects	80-020125		3
11	F	ORingSquare-010	McMaster Carr	4061T115		1
12	F	ORing1.5x10mm_Buna_D70A	McMaster Carr	9262K127		1
13	F	1.5x13mmORing_Buna_D70A	McMaster Carr	9262K123		1
14	F	ORing-118_Silicon_D70A	McMaster Carr	9396K75		1
15	F	ORing-015_Buna_D70A	McMaster Carr	4198T511		1
16	F	ORing-017_Viton_D75A	McMaster Carr	9464K71		1
17		VitonO-Ring 3-906 D90A	McMaster-Carr	9752K116		1
18	F	backupRing108	McMaster Carr	5288T163 (MC special order)		1
19	F	MIL SPEC O-RING-108	McMaster-Carr	5018T533		1
20	F	regular lw 0.112	United Titanium	1-01-322-00.00		4
21	F	hx-shcs 0.112-40x0.375x0.375-n	McMaster-Carr	95435A350		4
22	F	hx-shcs 0.06-80x0.125x0.125-n	McMaster Carr	92196A052		2
23	F	SHCS Ti2-56x0.188	McMaster Carr	95435A207		10
24	F	sbhcscrew 0.06-80x0.125-hx-n	McMaster-Carr	92949A050		1
25	F	18-8 Stainless Steel Washer	McMaster-Carr	9214A002		1
26	F	Stainless Steel Split Lock Washer	McMaster-Carr	92146A510		1
27		Lapping Paper 9 micron	McMaster-Carr	4837A118		1
28		Haynes Silicone Grease	Haynes			1

BILL OF MATERIALS											
NEXT ASSY Description	NEXT ASSY Number	UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		Monterey Bay Aquarium Research Institute	
		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	Gene M.		M B A R I  7700 Sandholdt Rd. Moss Landing, CA 95039 831 775-1922		
THIRD ANGLE PROJECTION 		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.				ENGINEER	Gene M.				
						CHECKED					
						PROJECT NO.	901217				
						PROJECT	Chem Sensors				
		DO NOT SCALE DRAWING				MAT'L			SIZE B	DWG. NO. 100221682	REV. F
						SCALE 1:4		CAD FILE:		SHEET 1 OF 2	

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BACKSIDE TRACES
POINT UP



DETAIL A
SCALE 2 : 1.5

SUBSTRATE-DRAIN VOLTAGE
TEST ACROSS THESE 2 PINS



SUBSTRATE-SOURCE VOLTAGE
TEST ACROSS THESE 2 PINS

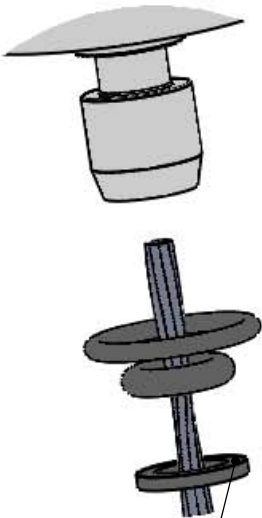
INSTALL MATTE (GRAY)
SIDE UP

SILVER
SIDE DOWN



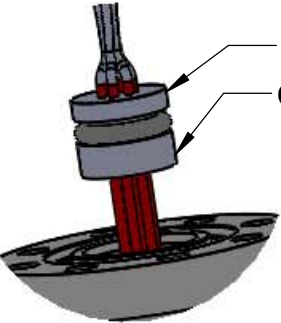
DETAIL B
SCALE 2 : 1.5

DETAIL C
SCALE 2 : 1.5



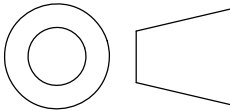
INSTALL BACKUP RING
CUP FACE UP

INSTALL THIN SIDE UP
GREEN DOT SIDE DOWN



DETAIL D
SCALE 2 : 1.5

Screw Torque Req'ts +/- 10%		
Screw Size	Torque in-lbs	Torque Nm
0-80	App. 1.0	App. 0.11
2-56	3	0.34
4-40	3.5	0.40

BILL OF MATERIALS												
NEXT ASSY Description	NEXT ASSY Number	UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		 Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt Rd. Moss Landing, CA 95039 831 775-1922 GDF ASSEMBLY, ASSEMBLY NOTES		
		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	Gene M.					
THIRD ANGLE PROJECTION		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.				ENGINEER	Gene M.					
						CHECKED						
						PROJECT NO.	901206					
						PROJECT	Coastal Profiling Float					
		DO NOT SCALE DRAWING				MAT'L			SIZE B		DWG. NO.	REV. F
								SCALE 1:4	CAD FILE:		SHEET 2 OF 2	