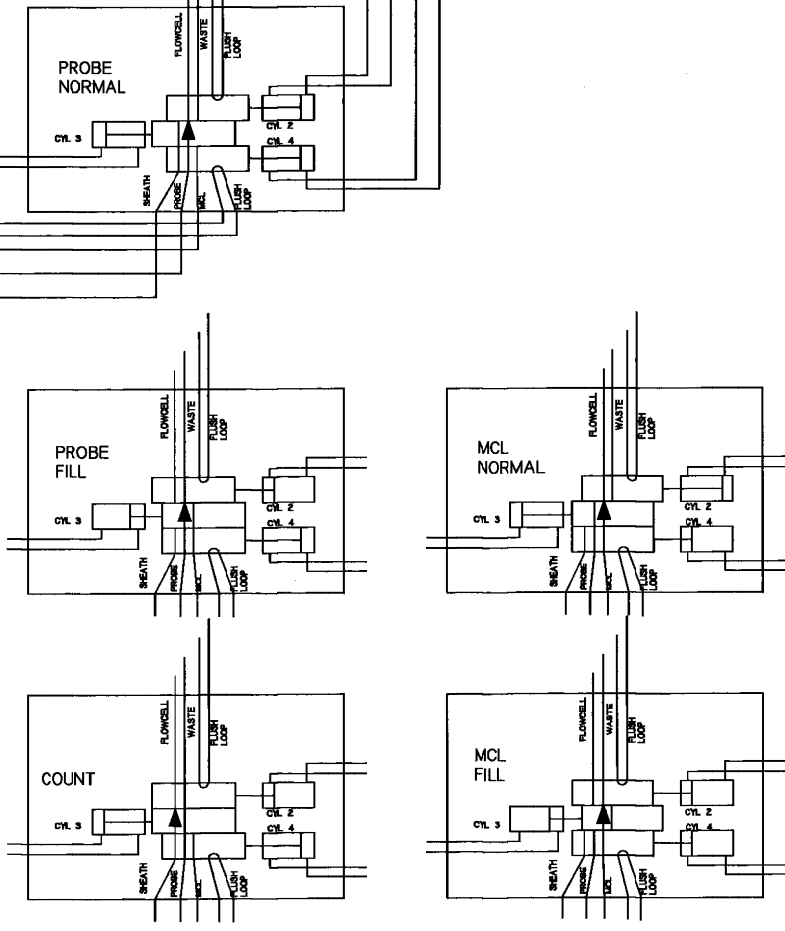
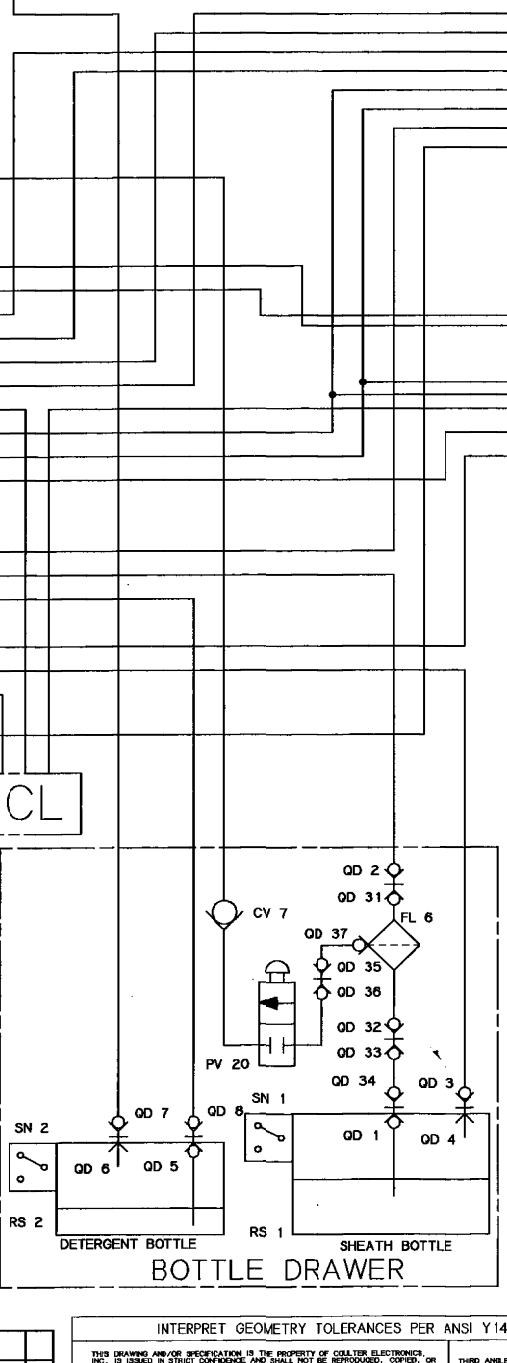
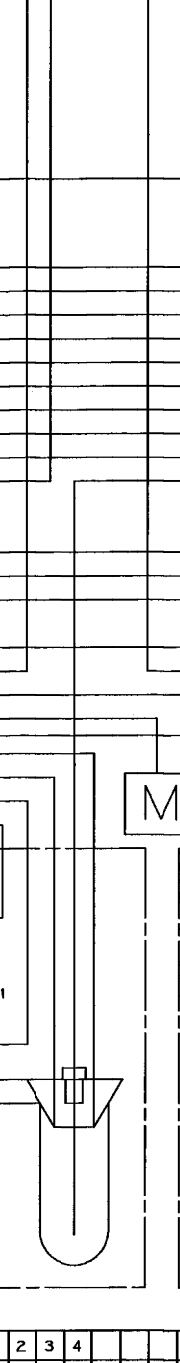
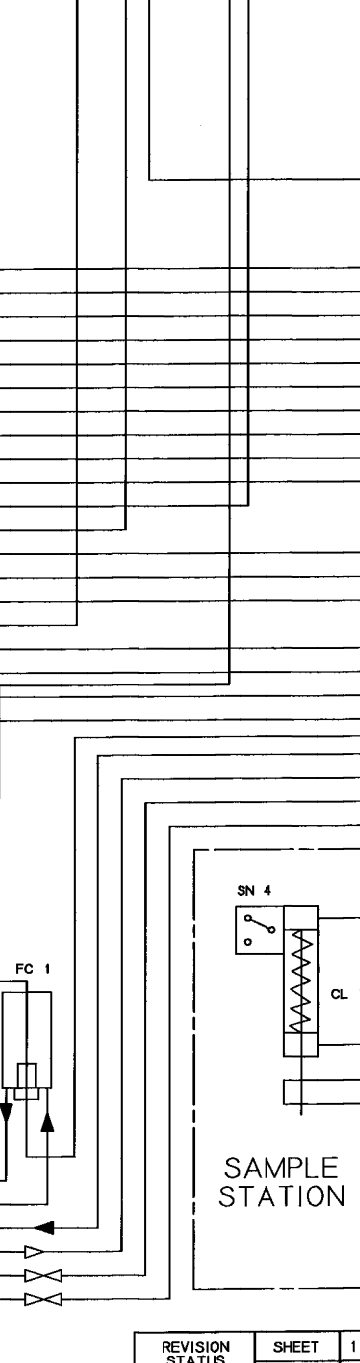
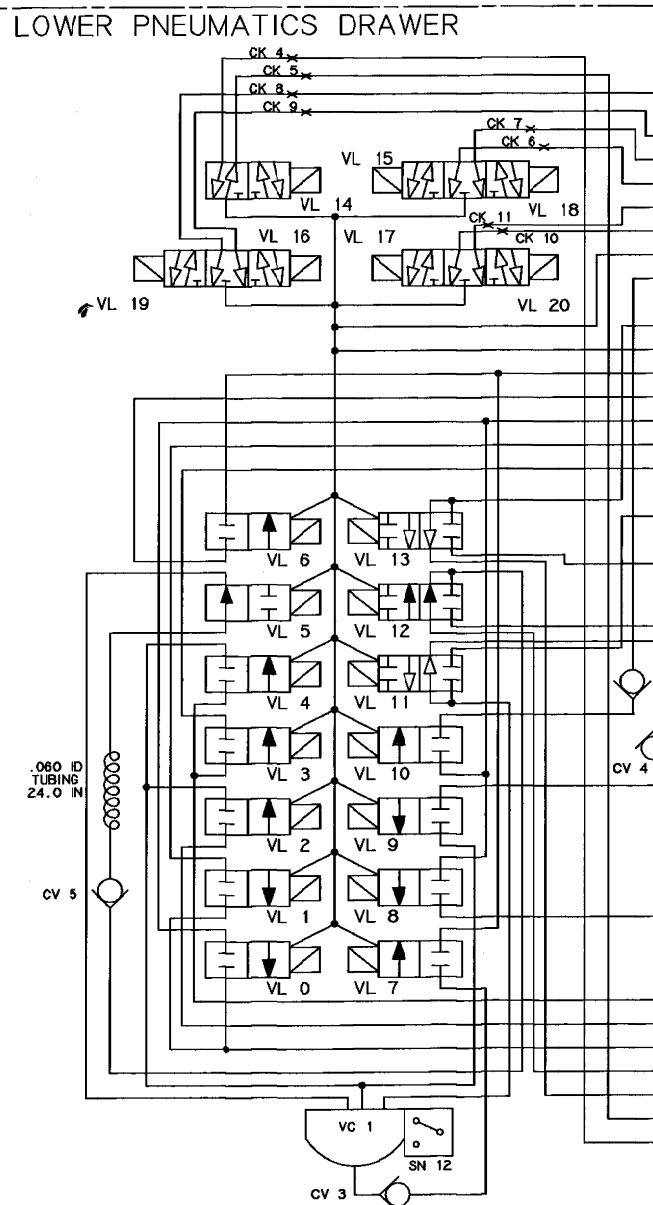
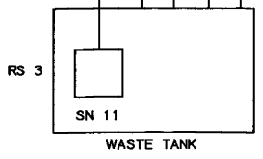
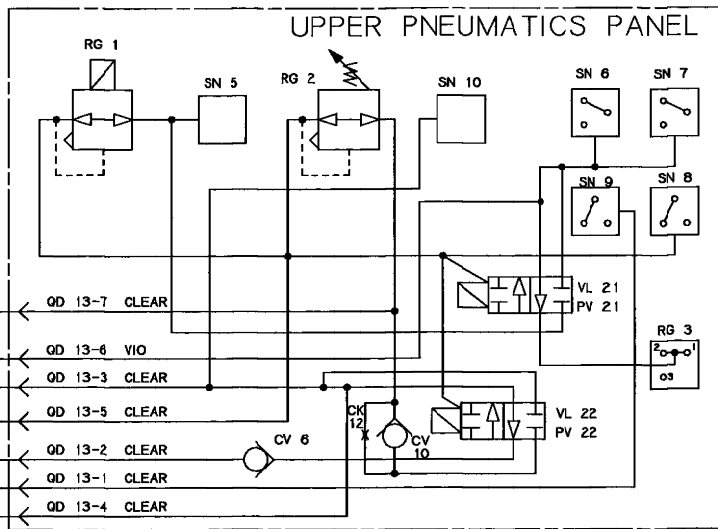
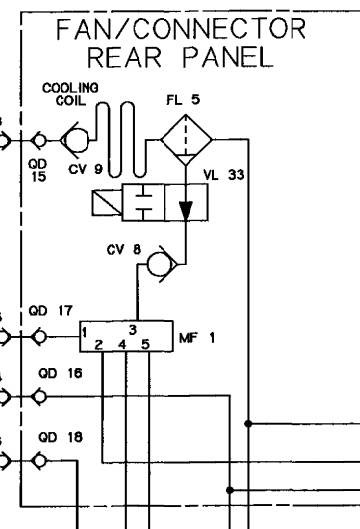
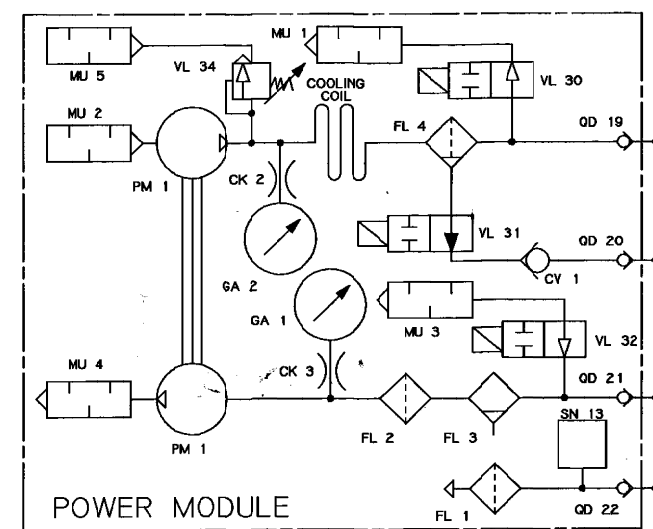


REVISIONS						
REV	DESCRIPTION	PCN	DATE	BY	CHKR	APPR
D	REVISED AND PLOTTED	3066157	22OCT93	ODT	D.B	O.M.
E	REVISED AND PLOTTED, ADDED QD14-TCLEAR AND QD13-TCLEAR	3066173	14JUN94	ALG	BM	O.M.
F	SEE SHEET 2.	88639	17JUN94	AOA		SEVP
G	SEE SH 2.	88575	18AUG94	OPC		D.H.



REVISION STATUS OF SHEETS	SHEET	1	2	3	4
REV	G	G	D	D	

INTERPRET GEOMETRY TOLERANCES PER ANSI Y14.5

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QTY	U/M/ITEM	DWG SIZE	PART NUMBER	DESCRIPTION	NOTE
BILL OF MATERIAL					
UNLESS OTHERWISE SPECIFIED PARTS, ASSEMBLIES & HOLE TOLERANCES PER CSI SPEC 000001 DIMENSIONS ARE IN INCHES					
TOLERANCES ON:					
BASIC DIMENSION	.XX	.XXX	FRACTIONS		
UNDER 12	±.01	±.005	±1/64		
12 TO 24	±.02	±.010	±1/32		
OVER 24	±.04	±.020	±1/16		
ANGLES ± 0°30'					
MATERIAL: / /					
FINISH: / /					
NEXT ASSY MODEL USED ON					
3066					
98802886					

DATE	BY	CHKR	APPR
04NOV91	D. DEL TORO		
04NOV91	D. DEL TORO		
05NOV91	D. HOLLINGER		
05NOV91	D. HOLLINGER		
05NOV91	P. RITCHIE		
05NOV91	R. PEDROSO		

SIZE	PART/DRAWING NO.	REV
D	6320886	G
SCALE	1/1	SHEET 1 OF 4
CLASS CODE		

REVISIONS						
REV	DESCRIPTION	PCN	DATE	BY	CHKR	APPVD
D	REVISED AND REDRAWN	3066157	22OCT93	ODT.	DB	O.M.
F	FL 3 6232174 WAS 6232176. (C5-6).	68639	17JUN94	ADA	OPC	SEJP
G	C5-6:FL4 #FL5 P/N WERE BOTH 6232177	88595	18AUG94	OPC	OPC	D.H.

REFERENCE DESIGNATOR	DESCRIPTION	COULTER P / N
SN 1, 2, 12	OPTICAL SHEATH LEVEL SWITCH	5120212
SN 4	HALL EFFECT SWITCH CLAMP	5120177 2851855
SN 5	SAMPLE PRESSURE TRANSDUCER	2306057
SN 6	2 IN HG	5120232
SN 7	3 PSI	5120221
SN 8	25 PSI	5120178
SN 9	10 IN HG	5120224
SN 10	SHEATH PRESSURE TRANSDUCER	2306058
SN 11	WASTE LEVEL SWITCH	5114004
SN 13	WASTE PRESSURE SWITCH	5120230
VLO - 4, 6 - 10 PVO - 4, 6 - 10	VALVE/PILOT PISTON, 24 VDC/30 PSIG SINGLE ACTING PINCH VALVE N.C.	6232492 6855763
VL 5 PV 5	VALVE/PILOT PISTON, 24 VDC/30 PSIG SINGLE ACTING PINCH VALVE N.O.	6232492 6855763
VL 11-13, 21-22 PV 11-13, 21-22	VALVE/PILOT PISTON, 24 VDC/30 PSIG DOUBLE ACTING PINCH VALVE	6232492 6855763
PV 20	SINGLE ACTING PINCH VALVE N.O.	6855763
VL 14-20	SOLENOID ASSY	6232587
VL 30	SYSTEM PRESSURE DUMP 220 VAC SYSTEM PRESSURE DUMP 115 VAC	6232367 6232368
VL 32	SYSTEM VACUUM DUMP 220 VAC SYSTEM VACUUM DUMP 115 VAC	6232367 6232368
VL 33	WATER TRAP DRAIN VALVE 24 V DC	6214067
VL 34	PRESSURE RELIEF VALVE 30 PSI	6208005
VL 31	WATER TRAP DRAIN 220 VAC WATER TRAP DRAIN 115 VAC	6232367 6232368

REFERENCE DESIGNATOR	DESCRIPTION	COULTER P / N
CK 4 - 11	CHOKE, .025 ORIFICE BROWN	6213015
CK 2 - 3	CHOKE, .008 ORIFICE RED	6213006
CK 12	CHOKE, .016 ORIFICE GRAY	6213012
RG 1	PRESSURE TRANSDUCER (ELECTRONIC)	6232684
RG 2	REGULATOR PRESSURE 0 - 10 PSI	6208022
RG 3	VACUUM REGULATOR	6232254
GA 1	SYSTEM VACUUM GAUGE	6232183
GA 2	SYSTEM PRESSURE GAUGE	6232189
MU 1, 3, 5	EXHAUST MUFFLER SOF - 1	6232501
MU 2	INTAKE MUFFLER	6216286
MU 4	EXHAUST MUFFLER	6216286
PM 1	COMPRESSOR 220 VAC COMPRESSOR 115 VAC	6232291 6232275
FL 1	.2 MICRON FILTER	6232561
FL 2	ANTI - AEROSOL WASTE VENT .2 MICRON FILTER	6232561
FL 3	VACUUM TRAP	6232724
FL 4	WATER TRAP	6232725
FL 5	SENSOR WATER TRAP	6232725
FL 6	.2 MICRON FILTER	6232473
RS 1	SHEATH BOTTLE	2523459
RS 2	DETERGENT BOTTLE	2523460
RS 3	WASTE BOTTLE	2523697
VC 1	WASTE CHAMBER	1018734
FC 1	FLOW CELL	6859156
CL 2-4	COUNT VALVE AIR CYLINDER	6232574
CL 1	SAMPLE STATION AIR CYLINDER	6232575
CV 1, 3, 6, 9, 10	CHECK FOR .156 ID TBG	6214106
CV 2, 4, 5, 7, 8	CHECK FOR .062 ID TBG	6214106
MF 1	MANIFOLD	1018616

REFERENCE DESIGNATOR	DESCRIPTION	COULTER P / N
QD 1, 5	SHUT-OFF, BARB, 1/8 OD	6232470
QD 2, 3, 7, 8, 34, 35	ELBOW/SHUT-OFF VALVE, 1/4 OD	6232472
QD 4, 6	50 - 24 UNF, 1/8 FLOW	6232478
QD 10	8 TUBE MALE	6232532
QD 11	8 TUBE FEMALE	6232531
QD 13	5 TUBE MALE	6232534
QD 14	5 TUBE FEMALE	6232533
QD 15, 19	PNL MNT, SHUT-OFF, 1/8 FLOW, BLU	6232309
QD 16, 21	PNL MNT, SHUT-OFF, 1/8 FLOW, YEL	6232303
QD 17, 18, 20, 22	PNL MNT, SHUT-OFF, 1/8 FLOW, ORG	6232304
QD 23, 27	INSERT BODY, 1/8 FLOW, BLUE	6232306
QD 24, 29	INSERT BODY, 1/8 FLOW, YELLOW	6232307
QD 25, 26, 28, 30	INSERT BODY, 1/8 FLOW, ORANGE	6232305
QD 31	3/8 MNPT, SHUT-OFF, 1/8 FLOW	6232475
QD 32	3/8 MNPT, SHUT-OFF, 1/4 FLOW	6232467
QD 33	ELBOW/SHUT-OFF VALVE, 1/4 FLOW	6232471
QD 36	10 - 32 UNF, 1/8 FLOW	6232466
QD 37	LUER TAPER FITTING, 1/8 ID	6232527
QD 38-42, 45-46, 48-53, 56-57, 59-60, 62-63	INSERT FITTING: .082 ID WHT FEMALE	6232588
QD 64-68, 71-72, 74-79, 82-83, 85-86, 88-89	INSERT FITTING: .082 ID WHT MALE	6232581
QD 55	INSERT FITTING: 1/8 ID BLK FEMALE	6232469
QD 81	INSERT FITTING: 1/8 ID BLK MALE	6232468

QTY	U/M	ITEM	DWG SIZE	PART NUMBER	DESCRIPTION	NOTE
BILL OF MATERIAL						
UNLESS OTHERWISE SPECIFIED						
PARTS, ASSEMBLIES & NUTS TO BE USED PER QD 6320886						
DIMENSIONS ARE IN INCHES						
TOLERANCES ON:						
BASIC DIMENSION	DECIMAL PLACES	FRACTIONS				
UNDER 12	±.01	±.005	±1/64			
12 TO 24	±.02	±.010	±1/32			
OVER 24	±.04	±.020	±1/16			
ANGLES ± 0°30'						
MATERIAL: / /						
FINISH: / /						
NEXT ASSY MODEL USED ON						
9980ZC9						
SCALE 1/1 SHEET 2 OF 4						
CLASS CODE						

INTERPRET GEOMETRY TOLERANCES PER ANSI Y14.5

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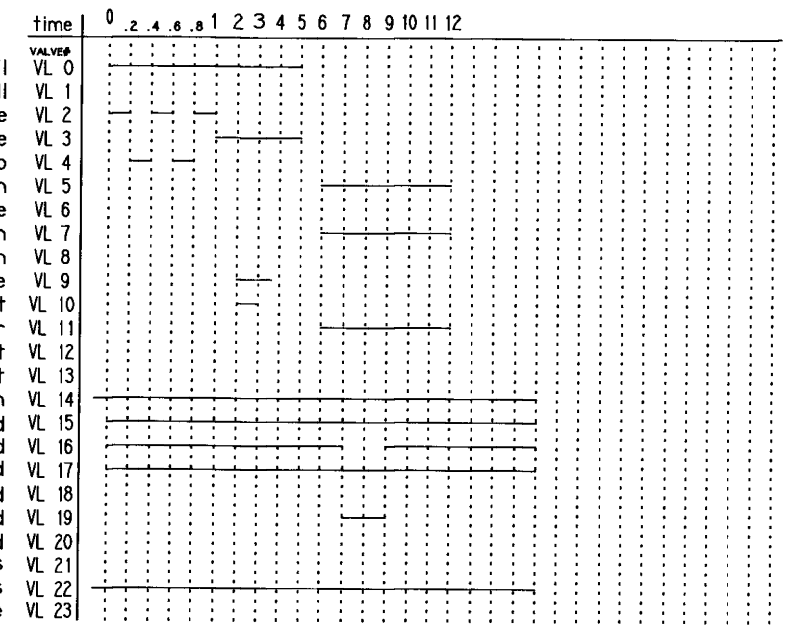
THIS ANGLE PROJECTION

D  
C  
B  
A

D  
C  
B  
A

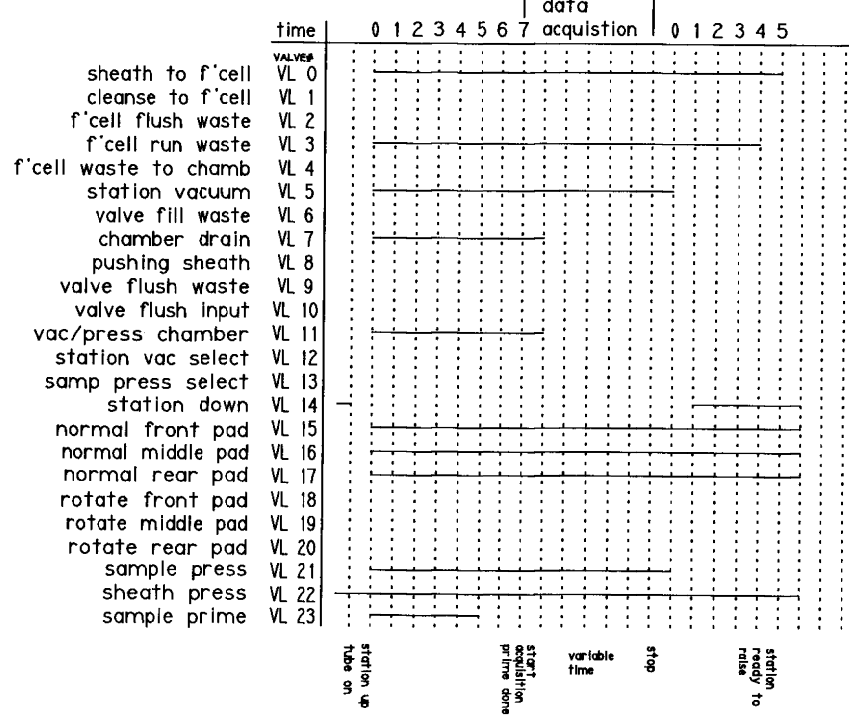
REVISIONS						
REV	DESCRIPTION	PCN	DATE	BY	CHKR	APPVL
D	REVISED & REDRAWN		30/01/97	OST		

### Prime with station down



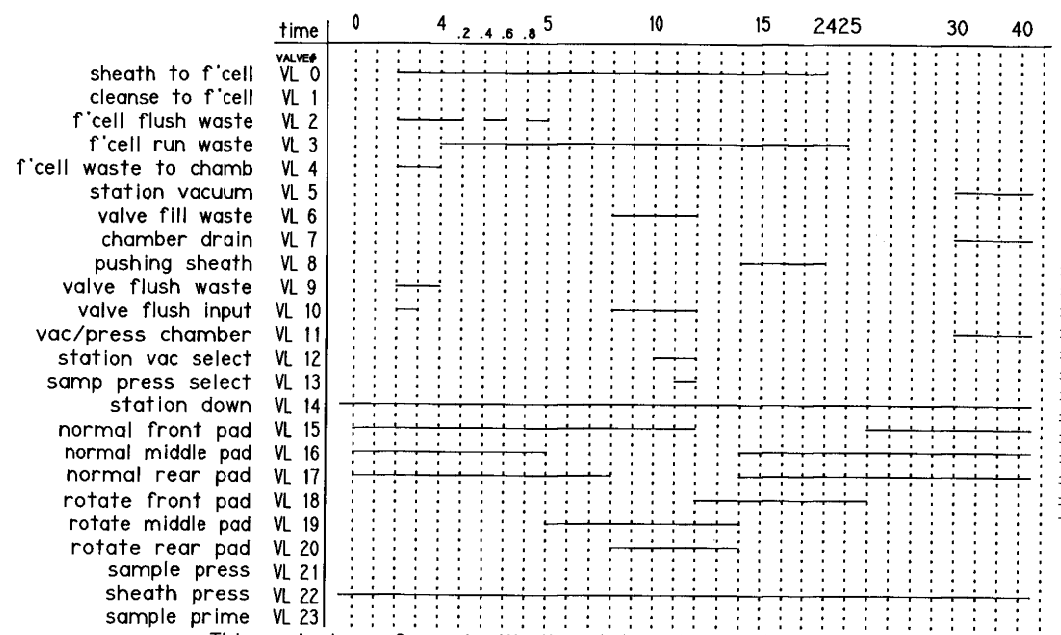
This cycle is for a prime with the station down either with or without a tube in the station.

### Data Acquisition cycle



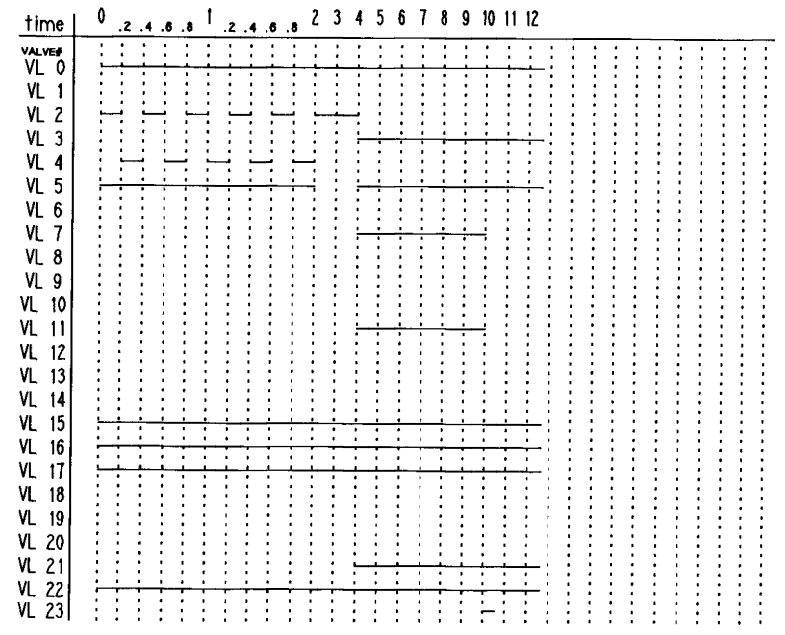
This is the data acquisition cycle. It starts when a tube is placed in the station and detected at time zero.

### Startup



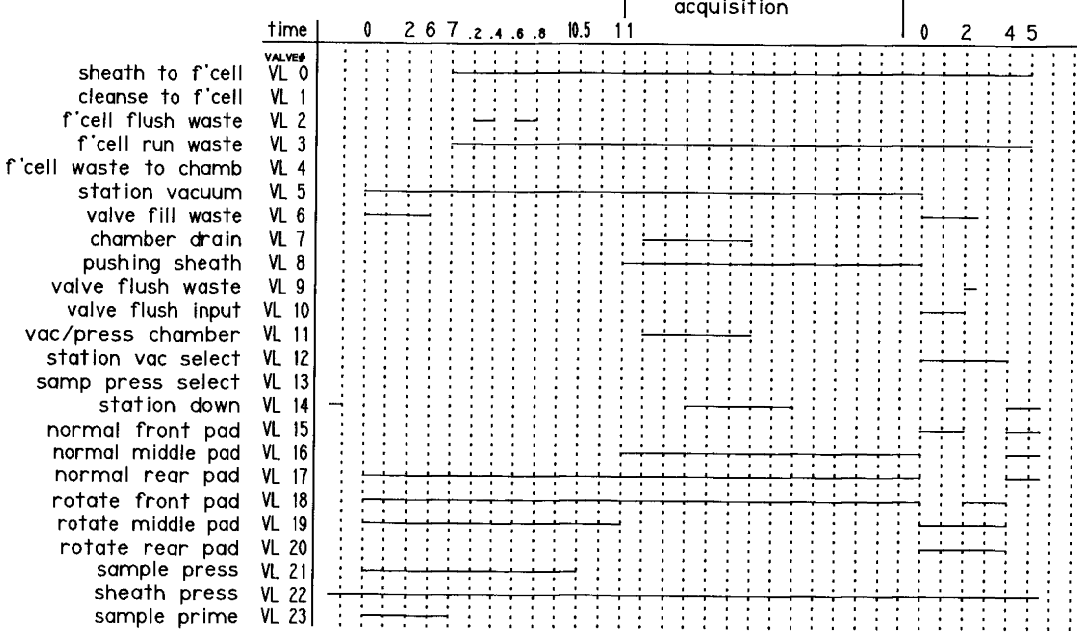
This cycle is performed with the station down either with or without a tube in place. This cycle primes the unit after it has been taken out of run and then put back into the run mode.

### Prime with station up



This cycle is for a prime when the tube is on the station and the station is up. At the end of this cycle the unit returns to the previous cycle.

### Stop On Volume



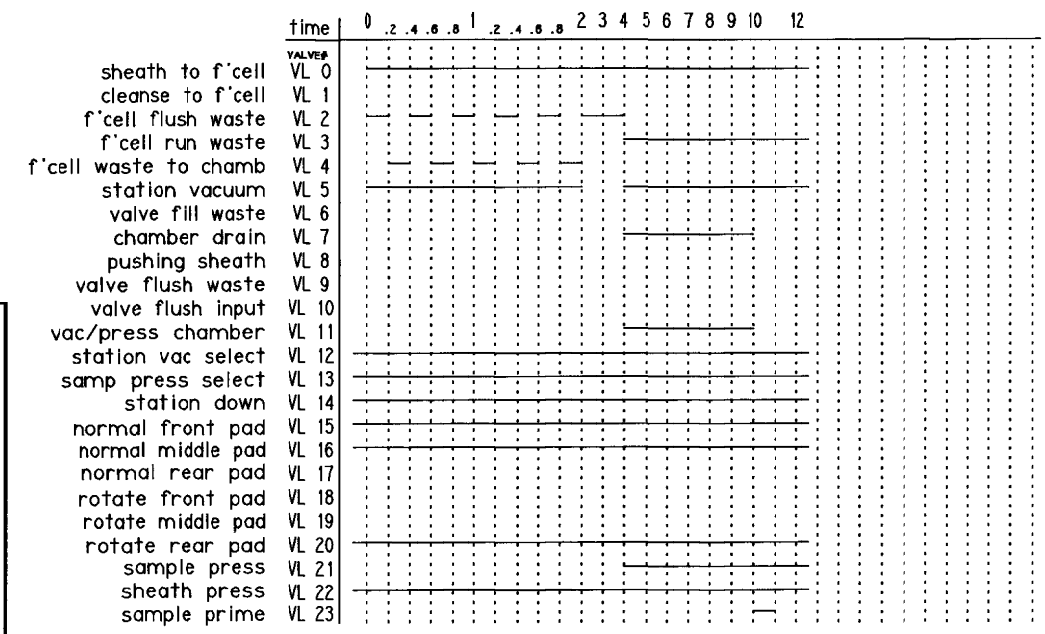
If the stop on volume amount is greater than 20 ul then the cycle will run through the end of acquisition and then return to time equals 0 and refill the valve to continue acquisition. Each multiple of 20 ul will require a valve refill.

Cytometer Version 1.2.2

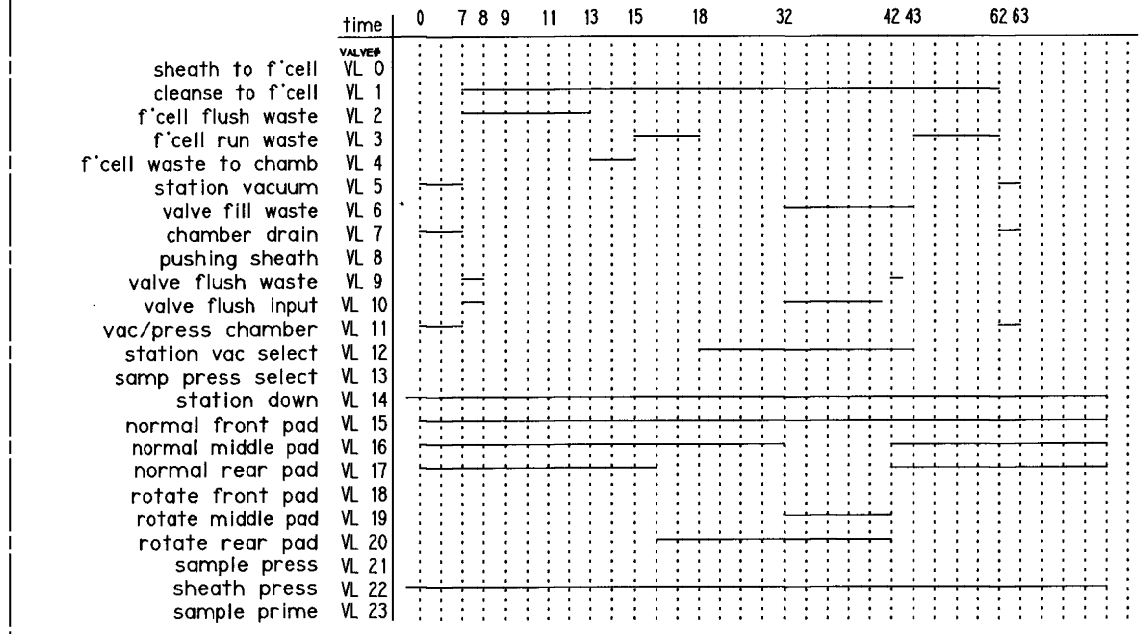
QTY	U/M	ITEM	DWG SIZE	PART NUMBER	DESCRIPTION	NOTE			
<b>BILL OF MATERIAL</b>									
UNLESS OTHERWISE SPECIFIED				OWN O. DEL TORO	4 NOV 91				
PARTS & ASSEMBLIES PER				DRGN O. DEL TORO	4 NOV 91				
GEL SPEC 000001				CHKR D. HOLLINGER	5 NOV 91				
DIMENSIONS ARE IN INCHES				M. E. D. HOLLINGER	5 NOV 91				
TOLERANCES ON:				MFG ENGR P. RITCHIE	5 NOV 91				
BASIC	DECIMAL PLACES	FRACTIONS							
UNDER 12	± .01	± .005	± 1/64						
12 TO 24	± .02	± .010	± 1/32						
OVER 24	± .04	± .020	± 1/16						
ANGLES ± 10'				PROJ. APPR. PEDROSO	5 NOV 91				
<table border="1" style="width: 100%;"> <tr> <td colspan="2">INTERPRET GEOMETRIC TOLERANCES PER ANSI Y14.5</td> <td>THIRD ANGLE PROJECTION</td> </tr> </table>							INTERPRET GEOMETRIC TOLERANCES PER ANSI Y14.5		THIRD ANGLE PROJECTION
INTERPRET GEOMETRIC TOLERANCES PER ANSI Y14.5		THIRD ANGLE PROJECTION							
3066		3066	3066	3066	3066	3066			
NEXT ASSY		MODEL	MATERIAL:	FINISH:					
USED ON		PART/DWG NO. 6320886							
SCALE 1/1		SHEET 3 OF 4		CLASS CODE					

REVISIONS					
REV	DESCRIPTION	PCN	DATE	BY	CHKR
D	REVISED & REDRAWN		2006.15.7	22.02.79.3	EST. JTB

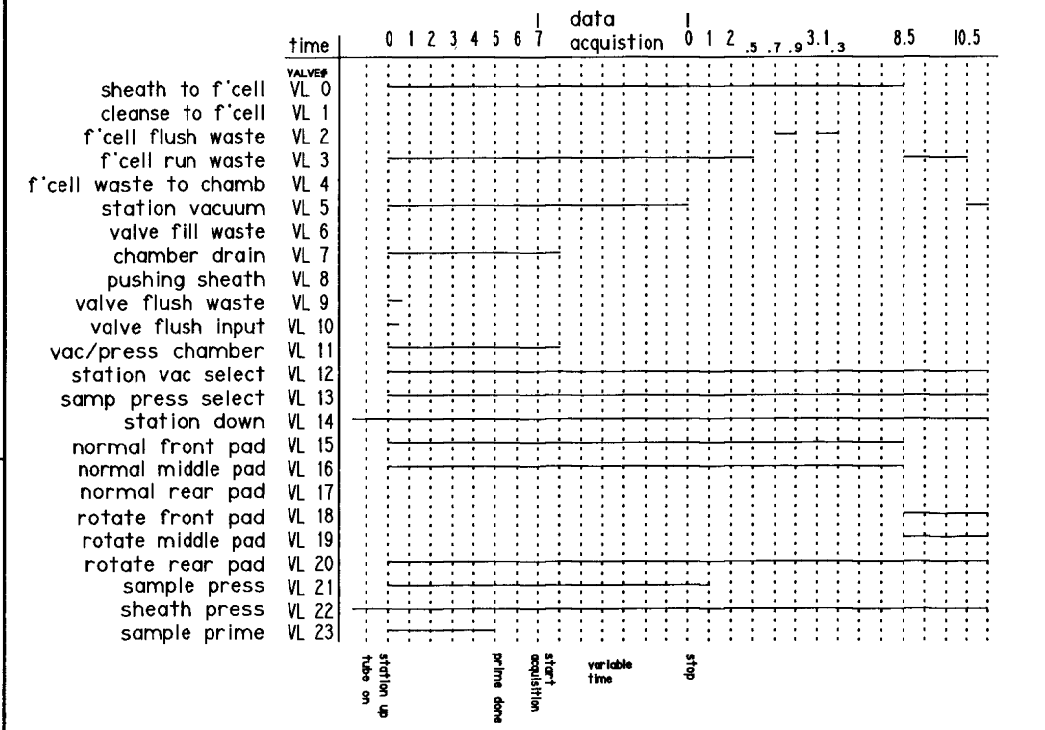
Prime with station up, MCL



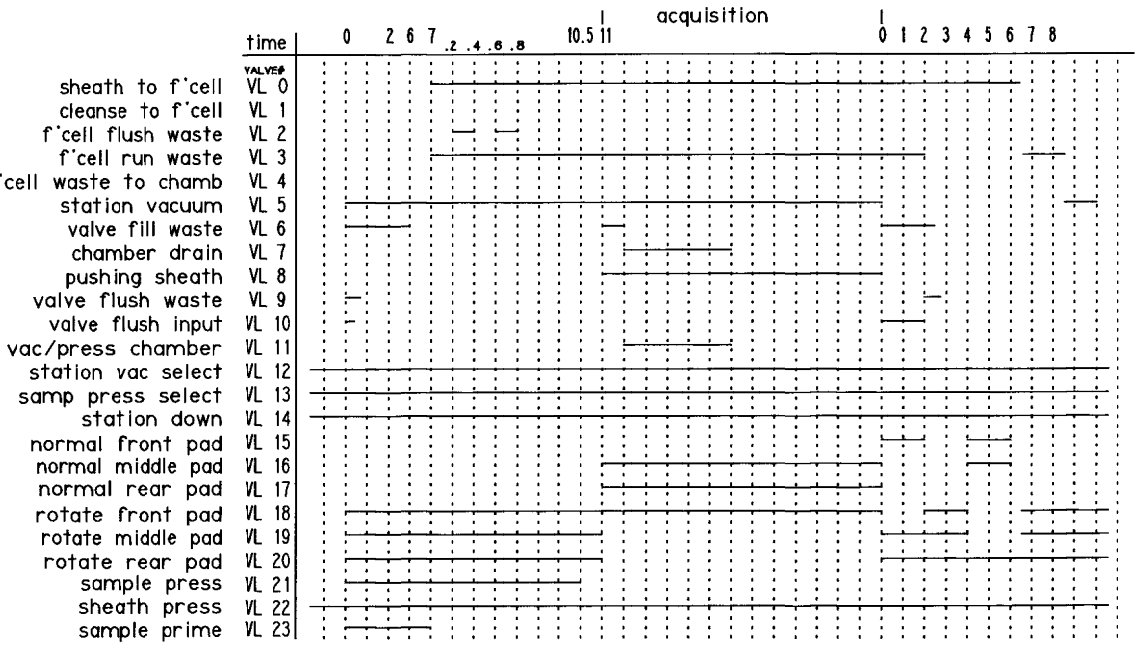
Cleanse



Data Acquisition cycle, MCL



Stop On Volume, MCL



Cytometer Version 1.2.2

This is the data acquisition cycle. It starts when a tube is placed in the station and detected at time zero.

QTY	U/M	ITEM	DWG SIZE	PART NUMBER	DESCRIPTION	NOTE
<p><b>BILL OF MATERIAL</b></p> <p>UNLESS OTHERWISE SPECIFIED: DWG. DEL TORO 4 NOV 91</p> <p>PARTS &amp; ASSEMBLIES PER DEL SPEC 020600 DSGN. DEL TORO 4 NOV 91</p> <p>DIMENSIONS ARE IN INCHES: CHKR. HOLLINGER 5 NOV 91</p> <p>TOLERANCES ON: M.F.D. HOLLINGER 5 NOV 91</p> <p>BASIC DECIMAL PLACES: FRACTION</p> <p>DIMENSION XX XXX TIONS</p> <p>UNDER 12 ± .01 ± .005 ± 1/64 MFG. RITCHIE 5 NOV 91</p> <p>12 TO 24 ± .02 ± .010 ± 1/32 ENGR. PEDROSO 5 NOV 91</p> <p>OVER 24 ± .04 ± .020 ± 1/16</p> <p>ANGLES ± 0°30'</p>						
<p><b>INTERPRET GEOMETRIC TOLERANCES PER ANSI Y14.5</b></p> <p>THIS DRAWING AND/OR SPECIFICATION IS THE PROPERTY OF COLTENE ELECTRONICS, INC. IT IS ISSUED IN STRICT CONFIDENCE, AND SHALL NOT BE REPRODUCED, COPIED, OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS WITHOUT PRIOR WRITTEN PERMISSION.</p>				3066	3066	
NEXT ASSY		MODEL		MATERIAL:		
USED ON		FINISH:		SCALE 1/1 SHEET 4 OF 4		
PART/DWG NO. 6320886		REV 0 SH 4		CLASS CODE		