



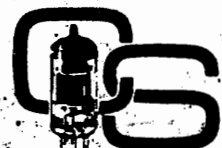
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TUBE TEST DATA

EICO MODEL **625**

This Tube Data Book replaces the Roll Chart and includes all the Latest Data.

COLETRONICS  **SERVICE INC.**

1744 ROCKAWAY AVENUE • HEWLETT, L.I., N.Y. 11557

(AUTHORIZED **EICO** TUBE DATA SERVICE)

KEY AT COLUMN REFERS TO POSITIONING OF COMPACTRONS ON
610-610A ADAPTER

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TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
OA2		35	0.0	4	1-5	<u>2-4-7</u>
OA3		31	0.0	4	5	<u>2-3-7</u>
OB2		100	0.0	4	1-5	<u>2-4-7</u>
OB3		35	0.0	4	5	<u>2-3-7</u>
"		Good	above	10.		
OC2		40	0.0	4	1-5	<u>2-4-7</u>
"		Good	above	10.		
OC3		31	0.0	4	5	2
"		Good	above	10.		
OD3		40	0.0	4	5	2(3-7)
"		Good	above	20.		
OG3		30	0.0	4	1-3-5	2-7
"		Good	above	10.		
OZ4		22	0.0	4	5	3-8
"		22	0.0	4	3	5-8
1A3		50	1.4	1	(2-6)	1- <u>3</u>
1A7		12	1.4	1	5-6	<u>2</u>
1AD2		Due to varying arrangements of inter-				
"		nal connections this tube cannot be				
"		tested.				
1AE4		12	1.4	1	2-3-6	<u>1-5</u>
1AF4		14	1.4	1	2-3-6	(<u>1-5</u>)
1AF5		40	1.4	1	4-5-6	<u>1</u>
"		Good	above	10.		
"		100	1.4	1	3	<u>1</u>
"		Good	above	10.		
1AU2		100	1.4	1	(1-9)	<u>5</u>
"		Good	above	20.		
1AX2		100	1.4	4	10	(<u>2-5-8</u>)
"		Good	above	15.		
1AY2		65	1.4	4	10	<u>4</u>
"		Using the 9 pin socket, carefully in-				
"		sert the filament pins between pins				
"		4 & 9.				
1B3		100	1.4	1	10	<u>2</u>
"		Good	above	25.		
1BC2		80	1.4	1	10	(<u>1-4-6-9</u>)
"		Good	above	25.		
1BK2		70	1.4	4	10	(<u>2-5-8</u>)
1BQ2		70	1.4	4	10	(<u>1-4-6-9</u>)
1BX2		50	1.4	4	10	(<u>2-5-8</u>)
"		Good	above	40.		
1BY2●	2	80	1.4	4	10	1
"		●Cap goes to top of tube.				
"		No short test-Good above 30.				
1C3		18	1.4	2	(2-6)4	<u>7</u>
1D13		50	1.4	1	(2-6)	1- <u>3</u>

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN		
1DG3		85	1.4	4	10	3-5	79	
"		No short test-Good above 20.						79
1DK1		70	.75	1	10	<u>2</u>	79	
"		Insert 2 base leads into pins 1&2 of						79
"		9 pin min. socket-use cap on single						
"		lead-Good tube reads above 10.						
1DY4		22	1.4	2	(1-7) (2-6)	3-5	79	
1F2		37	1.4	2	2-3-6	<u>1-5</u>	79	
1F3		35	1.4	2	2-3-6	<u>1-5</u>	79	
1FD9		20	1.4	1	4-5-6	<u>1</u>	79	
"		50	1.4	1	5	<u>1</u>	79	
1G3		55	1.4	4	10	<u>2</u>	79	
1J3		100	1.4	4	10	<u>2</u>	79	
"		Good above 20.						79
1K3		100	1.4	1	10	<u>2</u>	79	
"		Good above 20.						79
1L6		19	1.4	1	3-4	<u>1</u>	79	
"		21	1.4	1	2-5-6	<u>1</u>	79	
1N6		36	1.4	2	3-4-5	<u>7</u>	79	
"		35	1.4	1	6	<u>7</u>	79	
1P1		13	1.4	1	2-3-6	<u>1-7</u>	79	
1P10		30	1.4	2	(2-6)3-4	(<u>1-7</u>)	79	
1P11		13	1.4	1	2-3-6	<u>1-7</u>	79	
1R5		20	1.4	1	4	<u>1-5</u>	79	
1RK23		60	1.4	4	10 <u>1-3-4-6-7-9</u>		79	
1RK41		70	1.4	4	10 <u>(2-5-8)</u>		79	
1S4		30	1.4	2	<u>2-3-4-6</u>	<u>1-5</u>	79	
1T4		35	1.4	2	2-3-6	<u>1-5</u>	79	
1U4		35	1.4	2	2-3-6	<u>1-5</u>	79	
1U5		40	1.4	2	2-3-6	<u>1</u>	79	
"		35	1.4	1	4	<u>1</u>	79	
1V2		75	0.75	1	(1-8-9)	<u>4</u>	79	
"		Good above 20.						79
1X2		50	1.4	4	10	(<u>2-5-8</u>)	79	
"		Good above 40.						79
2AF4		22	2.5	2	(1-7) (2-6)	3-5	79	
2AH2●	2	80	2.5	4	10 (3-4-7-8-9)		79	
2AS2		Due to varying arrangements of inter-						79
"		nal connections this tube cannot be						79
"		tested.						79
2AV2		75	1.4	4	(1-9)	<u>4</u>	79	
2AZ2		100	2.0	1	10	(<u>2-5-8</u>)	79	
"		Good above 30.						79
2BA2		100	1.4	1	(1-9)	<u>4</u>	79	
"		Good above 30.						79
2BJ2		100	2.5	1	10	(<u>2-5-8</u>)	79	
"		Good above 23.						79
2BN4		23	2.5	2	(2-7)5	(1-6)3	79	

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN	
2BU2●	5	50	3.3	4	9	$\frac{4}{2}$	
2CN3		55	2.0	4	10	$\frac{2}{2}$	
2CW4		13	2.0	1	2-4	$\frac{3-8}{2}$	
2CY5		15	2.5	3	1-5	$\frac{2-4-7}{2}$	
2D21		22	6.3	4	1(5-7)6	$\frac{2-3}{2}$	
2DL4		25	2.0	2	(1-3-6-7-9)8	$\frac{2-4}{2}$	
2DS4		12	2.0	1	2-4	$\frac{5-8}{2}$	
2DV4		22	2.0	2	1-2-4-6	$\frac{7-10}{2}$	
2DX4		20	2.5	2	(1-7)(2-6)	$\frac{3-5}{2}$	
2DY4		22	2.5	2	(1-7)(2-6)	$\frac{3-5}{2}$	
2DZ4		24	2.5	2	(1-7)(2-6)	$\frac{3-5}{2}$	
2EA5		20	2.5	2	1-5-6	(2-7) $\frac{3}{2}$	
2EG4		40	1.4	2	2-4	$\frac{3-8}{2}$	
2EN5		13	2.5	1	2	$\frac{3-5}{2}$	
"		13	2.5	1	7	$\frac{3-5}{2}$	
2ER5		13	2.0	1	2-5	(1-7) $\frac{3}{2}$	
2EV5		22	2.5	2	1-5-6	(2-7) $\frac{3}{2}$	
2FH5		22	2.5	2	2-5	(1-7) $\frac{4}{2}$	
2FS5		25	2.5	2	1-5-6	(2-7) $\frac{3}{2}$	
2FV6		13	2.5	1	1-5-6	$\frac{3-7}{2}$	
2FY5		15	2.5	3	2-5	$\frac{1-4-7}{2}$	
2GK5		15	2.5	3	2-5	(1-7) $\frac{3}{2}$	
2GU5		23	2.5	2	1-5-6	(2-7) $\frac{3}{2}$	
2GW5		23	2.5	2	1(2-6)	$\frac{3-5}{2}$	
2HA5		22	2.0	2	1-5	(2-7) $\frac{3}{2}$	
2HK5		21	2.5	2	1-5	(2-7) $\frac{3}{2}$	
2HM5		22	2.0	2	1-5	(2-7) $\frac{3}{2}$	
2HQ5		22	2.5	2	1-5	(2-7) $\frac{3}{2}$	
2T4		20	2.5	2	(1-7)(2-6)	$\frac{3-5}{2}$	
2X2		42	2.5	4	10	$\frac{4}{2}$	
3A3		100	3.3	1	10	$\frac{2}{2}$	
"		Good above 35.					
3A4		29	1.4	2	(2-6)(3-4)	(1-7)	
3AF4		22	3.3	2	(1-7)(2-6)	$\frac{3-5}{2}$	
3AL5		25	3.3	2	2	$\frac{3-5}{2}$	
"		25	3.3	2	7	$\frac{1-3}{2}$	
3AT2●	5	100	3.3	1	10	(1-6-7)	
"		Good above 30.					
3AU6		22	3.3	2	1-5-6	$\frac{2-3-7}{2}$	
3AV6		28	3.3	2	1-7	$\frac{2-4}{2}$	
"		35	3.3	1	5-6	$\frac{2-4}{2}$	
3AW2●	2	50	3.3	4	10	(3-4-7-8)	
3AW3		65	3.3	1	10	$\frac{2}{2}$	
"		Good above 25.					
3B2		100	3.3	1	10	(1-3-5-7)	
"		Good above 14.					

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN	
3B4		34	1.4	3	1-3-7	<u>4-5</u>	
3BA6		23	3.3	2	1-5-6	<u>3-7</u>	
3BE6		12	3.3	1	1-5-6-7	<u>2-3</u>	
3BH2*		100	3.3	1	10	(<u>1-5-9</u>)	
"		Good above		35.			
3BL2●	3	100	3.3	1	10	<u>2</u>	
"		Good above		35.			
3BM2●	2	50	3.3	4	10	(<u>3-4-7-8</u>)	
3BN2●	5	100	3.3	4	10	(<u>1-6-7</u>)	
"		Good above		30.			
3BN4		23	3.3	2	(2-7)5	(1-6) <u>3</u>	
3BN6		100	3.3	1	2-5-6-7	<u>1-3</u>	
"		Good above		40.			
3BS2●	2	47	3.3	4	10	(<u>3-4-7-8</u>)	
3BT2●	5	55	3.3	4	9	<u>4</u>	
3BU8		12	3.3	1	2-7-8	<u>1-4-9</u>	
"		12	3.3	1	2-3-7	<u>1-4-6</u>	
3BW2●	2	53	3.3	4	10	(<u>3-4-7-8</u>)	
"		●Cap goes to top of tube.					
3BZ6		22	3.3	2	1-5-6	<u>2-3-7</u>	
3CA3		45	3.3	1	10	<u>7</u>	
"		Good above		30.			
3CB6		22	3.3	2	1-5-6-7	<u>2-3</u>	
3CE5		25	2.5	2	1-5-6	(2-7) <u>3</u>	
3CF6		24	3.3	2	1-5-6	<u>2-3-7</u>	
3CN3		55	3.3	4	10	<u>2</u>	
3CS6		24	3.3	2	1-5-6-7	<u>2-3</u>	
3CU3		45	3.3	4	10	<u>2</u>	
3CV3A		100	2.5	1	10	<u>2</u>	
"		Good above		30.			
3CX3		55	3.3	4	10	<u>3-5</u>	
"		No short test.					
3CY3		58	3.3	4	10	<u>2</u>	
3CY5		15	3.3	3	1-5	<u>2-4-7</u>	
3CZ3		60	3.3	4	10	<u>2</u>	
"		Good above		35.			
3DA3		55	3.3	4	10	<u>3-5</u>	
"		No short test.					
3DB3		60	3.3	4	10	<u>2</u>	
"		Good above		35.			
3DC3		44	3.3	4	10	<u>2</u>	
3DF3		45	3.3	4	10	<u>3</u>	
"		No short test-Good above 30.					
3DG4		20	3.3	3	5	<u>1</u>	
"		20	3.3	3	7	<u>1</u>	
3DH3		40	3.3	4	10	<u>3-5</u>	
"		No short test-Good above 40.					

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
3DJ3		74	3.3	4	10	<u>2</u>
3DK6		20	3.3	2	1-5-6	2-3- <u>7</u>
3DR3		60	3.3	4	10	(3- <u>5</u>)
3DS3		40	3.3	4	10	<u>3-5</u>
"						
No short test-Good above 40.						
3DT6		22	3.3	2	1-5-6	2-3-7
3DX4		20	3.3	2	(1-7) (2-6)	<u>3-5</u>
3DY4		22	3.3	2	(1-7) (2-6)	3-5
3DZ4		24	3.3	2	(1-7) (2-6)	<u>3-5</u>
3EA5		20	3.3	2	1-5-6	(2- <u>7</u>) <u>3</u>
3EH7		22	3.3	2	2-7-8	(1-3) <u>4</u>
3EJ7		22	3.3	2	2-7-8	(1-3) <u>4</u>
3ER5		13	2.5	1	2-5	(1-7) <u>3</u>
3EV5		22	3.3	2	1-5-6	(2-7) <u>3</u>
3FH5		22	3.3	2	2-5	(1-7) <u>4</u>
3FS5		25	3.3	2	1-5-6	(2-7) <u>3</u>
3GK5		15	3.3	3	2-5	(1-7) <u>3</u>
3GS8		24	3.3	2	2-3-6-7	<u>1-4</u>
"		24	3.3	2	6-7-8-9	<u>1-4</u>
3GU5		23	3.3	2	1-5-6	(2-7) <u>3</u>
3GW5		23	3.3	2	1 (2-6)	3-5
3HA5		22	2.5	2	1-5	(2-7) <u>3</u>
3HK5		21	3.3	2	1-5	(2-7) <u>3</u>
3HM5		22	2.5	2	1-5	(2-7) <u>3</u>
3HQ5		22	3.3	2	1-5	(2-7) <u>3</u>
3JC6		20	3.3	2	2-7-8-9	(1-3) <u>4</u>
3JD6		15	3.3	3	2-7-8	(1-3) <u>4-9</u>
3KF8		22	3.3	2	2-3-7	<u>1-4-6</u>
"		22	3.3	2	2-7-8	<u>1-4-9</u>
3KT6		20	3.3	2	2-7-8-9	(1- <u>3</u>) <u>4</u>
3MP26		28	3.3	2	1-5-6	<u>2-3</u>
3MR24		25	3.3	2	1-5-6	2-3- <u>7</u>
3MV7		25	3.3	2	1-5-6	2- <u>3-7</u>
3Q4		33	1.4	2	(2-6)3-4	(<u>1-7</u>)
3S4		30	1.4	2	(2-6)3-4	(<u>1-7</u>)
3V4		18	1.4	1	2-3-6	<u>1-7</u>
4AU6		22	3.3	2	1-5-6	2- <u>3-7</u>
4AV6		28	3.3	2	1-7	<u>2-4</u>
"		35	3.3	1	5	<u>2-4</u>
"		35	3.3	1	6	<u>2-4</u>
4BC8		22	3.3	2	1-2	<u>3-4</u>
"		22	3.3	2	6-7	<u>4-8</u>
4BE6		12	3.3	1	1-5-6-7	<u>2-3</u>
4BF5		19	3.3	3	1-5-6-7	<u>2-3</u>
4BL8		25	3.3	2	1-9	<u>4-8</u>
"		25	3.3	2	2-3-6	<u>4-7</u>
4BN4		23	3.3	2	(2-7)5	(1-6) <u>3</u>

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
4BN6		100	3.3	1	2-5-6-7	1-3
"		Good	above	35.		
4BQ7		25	3.3	2	1-2	3-4
"		25	3.3	2	6-7	4-8
4BS8		23	3.3	2	6-7	4-8
"		23	3.3	2	1-2	3-4
4BU8		12	3.3	1	2-7-8	1-4-9
"		12	3.3	1	2-3-7	1-4-6
4BZ6		22	3.3	2	1-5-6	2-3-7
4BZ7		16	3.3	3	1-2	3-4
"		16	3.3	3	6-7	4-8
4CB6		22	3.3	2	1-5-6-7	2-3
4CE5		25	3.3	2	1-5-6	(2-7)3
4CM4		25	3.3	2	(1-9) (2-6-8)	(3-7)4
4CS6		24	3.3	2	1-5-6-7	2-3
4DE6		15	3.3	3	1-5-6-7	2-3
4DK6		20	3.3	2	1-5-6	2-3-7
4DL4		15	3.3	3	(1-3-6-7-9) 8	2-4
4DT6		22	3.3	2	1-5-6	2-3-7
4EH7		22	3.3	2	2-7-8	(1-3)4
4EJ7		22	3.3	2	2-7-8	(1-3)4
4ES8		21	3.3	2	1-2	3-4
"		21	3.3	2	6-7	4-8
4EW6		20	3.3	2	1-5-6-7	2-3
4GJ7		18	3.3	3	8-9	(1-3)4
"		26	3.3	2	2-6-7	(1-3)4
4GK5		15	5.0	3	2-5	(1-7)3
4GM6		20	3.3	2	1-5-6-7	2-3
4GS7		25	3.3	2	1-2	(3-8)4
"		25	3.3	2	6-7-9	(3-8)4
4GS8		24	3.3	2	2-3-6-7	1-4
"		24	3.3	2	6-7-8-9	1-4
4GX7		20	3.3	2	8-9	(1-3)4
"		20	3.3	2	2-6-7	(1-3)4
4GZ5		13	3.3	1	(2-5)6-7	1-3
4HA5		22	3.3	2	1-5	(2-7)3
4HA7		28	3.3	2	3-7	6-8
"		28	3.3	2	1-2	6-9
4HC7		25	3.3	2	7-9	1-4
"		25	3.3	2	1-5	4-6
4HG8		21	3.3	2	2-8-9	(1-3)4
"		23	3.3	2	6-7	(1-3)4
4HK5		21	3.3	2	1-5	(2-7)3
4HM5		22	3.3	2	1-5	(2-7)3
4HM6		22	3.3	2	2-7-8	(1-3)4-9
4HQ5		22	3.3	2	1-5	(2-7)3

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3

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
4HS8		22	3.3	4	2-3-7	1-5-9
"		22	3.3	4	2-7-8	1-5-6
4HT6		24	3.3	2	2-7-8	1-3-4-9
4JC6		20	3.3	2	2-7-8-9	(1-3)4
4JD6		15	3.3	3	2-7-8	(1-3)4-9
4JH6		20	3.3	2	1-5-6	2-3-7
4JK6		20	3.3	2	1-5-6-7	2-3
4JL6		15	3.3	3	1-6	2-3
"		20	3.3	1	5-7	2-3
4JW8		22	5.0	2	2-3-6	4-7
"		23	5.0	2	1-9	4-8
4KE8		21	3.3	2	2-3-6	4-7
"		23	3.3	2	1-9	4-8
4KF8		22	3.3	2	2-3-7	1-4-6
"		22	3.3	2	2-7-8	1-4-9
4KN8		23	3.3	2	1-2	3-4
"		23	3.3	2	6-7	4-8
4KT6		20	3.3	2	2-7-8-9	(1-3)4
4LJ8		24	3.3	2	1-2	(3-8)4
"		24	3.3	2	6-7-9	(3-8)4
4LU6		26	3.3	2	1-5-6-7	2-3
4MK8		22	3.3	2	2-3-7	1-4-6
"		22	3.3	2	2-7-8	1-4-9
4MP12		25	3.3	2	1-5-6	2-3
4MP26		28	3.3	2	1-5-6	2-3
4RHH2		25	3.3	2	1-2	3-4
"		25	3.3	2	6-7	4-8
4RHH8		23	3.3	2	1-2	3-4
"		23	3.3	2	6-7	4-8
4RHH15		29	3.3	2	1-2	3-4
"		29	3.3	2	6-7	4-8
5AM8		22	5.0	2	2-3-6	1-4-9
"		24	5.0	2	8	4-7
5AN8		20	5.0	2	1-2	3-4
"		22	5.0	2	6-7-8	4-9
5AQ4		25	5.0	3	6	2
"		25	5.0	3	4	2
5AQ5		30	5.0	3	(1-7)5-6	2-3
5AR4		20	5.0	4	4	8
"		20	5.0	4	6	8
5AS4		23	5.0	3	4	2
"		23	5.0	3	6	2
5AT8		22	5.0	2	1-2	3-4
"		22	5.0	2	6-7-9	3-4-8
5AU4		31	5.0	3	6	2
"		31	5.0	3	4	2
5AV8		26	5.0	2	6-8-9	4-7
"		34	5.0	2	2-3	1-4

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
5AW4		23	5.0	1	6	<u>2</u>
"		20	5.0	1	4	<u>2</u>
5B8		20	5.0	2	6-8-9	<u>4-7</u>
"		25	5.0	2	2-3	<u>1-4</u>
5BC3		23	5.0	3	(5-6)	<u>(2-3)</u>
"		23	5.0	3	(8-9)	<u>(2-3)</u>
5BK5		24	5.0	3	1(3-7)8	<u>4-6</u>
5BK7		16	5.0	3	1-2	<u>3-4</u>
"		16	5.0	3	6-7	<u>4-8</u>
5BQ7		25	5.0	2	1-2	<u>3-4</u>
"		25	5.0	2	6-7	<u>4-8</u>
5BR8		22	5.0	2	1-2	<u>3-4</u>
"		21	5.0	2	6-7-9	<u>4-8</u>
5BT8		17	5.0	3	6-7-8	<u>4-9</u>
"		17	5.0	1	1	<u>3-4</u>
"		17	5.0	1	2	<u>3-4</u>
5BW8		25	5.0	2	1	<u>2-4</u>
"		25	5.0	2	3	<u>2-4</u>
"		25	5.0	2	6-8-9	<u>4-7</u>
5BZ6		16	5.0	3	1-2	<u>3-4</u>
"		16	5.0	3	6-7	<u>4-8</u>
5CG8		22	5.0	2	1-2	<u>(3-8)4</u>
"		24	5.0	2	6-7-9	<u>(3-8)4</u>
5CL8		14	5.0	3	1-2	<u>3-4</u>
"		13	5.0	3	6-7-9	<u>4-8</u>
5CM6		23	5.0	3	1(3-6)9	<u>4-7</u>
5CQ8		13	5.0	1	1-9	<u>5-8</u>
"		13	5.0	1	2-3-6	<u>5-7</u>
5CZ5		25	5.0	2	1(3-6)9	<u>4-7</u>
5DH8		25	5.0	2	1-2	<u>3-4</u>
"		25	5.0	2	6-7	<u>4-8</u>
5DJ4		27	5.0	3	(3-4)	<u>(1-2)</u>
"		27	5.0	3	(5-6)	<u>(1-2)</u>
5EA8		15	5.0	3	2-3-6	<u>4-7</u>
"		14	5.0	3	1-9	<u>4-8</u>
5EU8		15	5.0	2	1-7-9	<u>5-8</u>
"		15	5.0	2	2-3	<u>5-6</u>
5EW6		20	5.0	2	1-5-6-7	<u>2-3</u>
5FG7		24	5.0	2	6-7-9	<u>3-4-8</u>
"		24	5.0	2	1-2	<u>3-4-8</u>
5FV8		21	5.0	2	6-7-9	<u>5-8</u>
"		30	5.0	2	1-2	<u>5-6</u>
5GH8		21	5.0	2	2-3-6	<u>4-7</u>
"		21	5.0	2	1-9	<u>4-8</u>
5GJ7		18	5.0	3	8-9	<u>(1-3)4</u>
"		21	5.0	2	2-6-7	<u>(1-3)4</u>
5GM6		20	5.0	2	1-5-6-7	<u>2-3</u>
5GS7		25	5.0	2	1-2	<u>(3-8)4</u>
"		22	5.0	2	6-7-9	<u>(3-8)4</u>

TUBE	KEY		FIL.	SEL.	UP	DOWN
	AT	SHUNT				
5GX6		13	5.0	1	1-5-6	2-3-7
5GX7		20	5.0	2	8-9	(1-3)4
"		20	5.0	2	2-6-7	(1-3)4
5GY6		13	5.0	1	1-5-6	2-3-7
5HA7	5	28	5.0	2	3-7	6-8
"	5	28	5.0	2	1-2	6-9
5HB7		17	5.0	2	8-9	(1-3)4
"		20	5.0	2	2-6-7	(1-3)4
5HC7	0	24	5.0	2	7-9	1-4
"	5	24	5.0	2	3-7	6-8
5HG8		21	5.0	2	2-8-9	(1-3)4
"		23	5.0	2	6-7	(1-3)4
5HZ6		22	5.0	2	1-5-6-7	2-3
5J6		22	5.0	2	1-6	3-7
"		22	5.0	2	2-5	3-7
5JK6		20	5.0	2	1-5-6-7	2-3
5JL6		15	5.0	3	1-6	2-3
"		20	5.0	1	5-7	2-3
5JW8		22	5.0	2	2-3-6	4-7
"		23	5.0	2	1-9	4-8
5KD8		20	5.0	2	2-3-6	4-7
"		23	5.0	2	1-9	4-8
5KE8		21	5.0	2	2-3-6	4-7
"		23	5.0	2	1-9	4-8
5KZ8		15	5.0	3	1-9	4-8
"		15	5.0	3	2-6-7	3-4
5LJ8		24	5.0	2	1-2	(3-8)4
"		24	5.0	2	6-7-9	(3-8)4
5MB8		30	5.0	2	2	3-4
"		22	5.0	2	6-7	4-8
5MF8	0	26	5.0	2	4(6-7)8	1-9
"	4	25	5.0	2	1-6	2-5
5MHH3		25	5.0	2	2-5	4-7
"		25	5.0	2	1-6	4-7
5MK9		26	5.0	3	5	3
5MQ8		25	5.0	2	2-3-6	5-7
"		25	5.0	2	1-9	5-8
5R4		20	5.0	4	4	2
"		20	5.0	4	6	2
5RDDH1		30	3.3	2	1	2-4
"		30	3.3	2	6	3-4
"		34	3.3	2	7-8	4-9
5RHP1		25	3.3	2	1-9	4-8
"		25	3.3	2	2-3-6	4-7
5RHR1		24	5.0	2	2-3-6	4-7
"		24	5.0	2	1-9	4-8
5T8		15	5.0	1	2	3-4
"		15	5.0	1	6	4-7
"		15	5.0	1	1	4-7
"		25	5.0	3	8-9	4-7

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
5U4		31	5.0	3	4	<u>2</u>
"		31	5.0	3	6	<u>2</u>
5U8		20	5.0	2	2-3-6	<u>4-7</u>
"		23	5.0	2	1-9	<u>4-8</u>
5U9#		22	5.0	2	3-4-7-8	<u>2-6</u>
"#		26	5.0	2	9-10	<u>1-6</u>
5V3		23	5.0	4	4	<u>8</u>
"		23	5.0	4	6	<u>8</u>
5V4		20	5.0	3	4	<u>8</u>
"		20	5.0	3	6	<u>8</u>
5V6		20	5.0	3	3-4-5	<u>2-8</u>
5V9#		30	5.0	2	2-3-4	<u>1-6</u>
"#		30	5.0	2	8-10	<u>6-9</u>
5X8		24	5.0	2	2-3	<u>4-6</u>
"		24	5.0	2	7-8-9	<u>1-4-6</u>
5X9#		24	5.0	2	3-4-7	<u>2-6</u>
"#		25	5.0	2	9-10	<u>1-6</u>
5Y3		42	5.0	3	4	<u>2</u>
"		42	5.0	3	6	<u>2</u>
5Y4		47	5.0	3	5	<u>7</u>
"		47	5.0	3	3	<u>7</u>
5Z3		33	5.0	3	3	<u>1</u>
"		33	5.0	3	2	<u>1</u>
5Z4		22	5.0	3	4	<u>8</u>
"		22	5.0	3	6	<u>8</u>
6A8		32	6.3	2	5-6	<u>2-8</u>
"		40	6.3	2	3-4	<u>2-8</u>
6AB4		22	6.3	2	1-6	<u>3-7</u>
6AC7		18	6.3	3	4-6-8	<u>3-5-7</u>
6AC9	0	25	6.3	2	2	<u>1-3</u>
"	0	25	6.3	2	(2-3)	<u>1-4</u>
"	7	25	6.3	2	1-3-4-5	<u>2-8</u>
6AC10	3	21	6.3	2	1-5	<u>4-6</u>
"	0	21	6.3	2	5-7	<u>1-6</u>
"	5	21	6.3	2	1-2	<u>6-9</u>
6AD10	0	15	6.3	3	3-5-6-7	<u>1-2</u>
"	7	22	6.3	2	2-4-5	<u>3-8</u>
6AF3		20	6.3	3	(2-9)	<u>4-10</u>
6AF4		22	6.3	2	(1-7) (2-6)	<u>3-5</u>
6AF9#		22	6.3	2	1-3-4	<u>2-6-7</u>
"#		28	6.3	2	8-9-10	<u>2-6</u>
6AF11	0	22	6.3	2	3-4	<u>7-10</u>
"	0	22	6.3	2	6-8	<u>5-10</u>
"	5	14	6.3	3	2-3-7	<u>1-4</u>
6AG5		22	6.3	2	1-5-6	<u>2-4-7</u>
6AG7		15	6.3	3	4-6-8	<u>5-7</u>
6AG9	0	17	6.3	3	5-7	<u>1-6</u>
"	5	17	6.3	3	2-3	<u>1-6</u>

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6AG11	4	12	6.3	1	1	2-3
"	0	12	6.3	1	3	2-10
"	0	20	6.3	2	5-6	4-10
"	0	20	6.3	2	7-8	9-10
6AH4		15	6.3	3	1-5	2-8
6AH6		21	6.3	2	1-5-6	4-7
6AH9	0	20	6.3	3	2-3	1-4
"	7	22	6.3	2	2-5-10	1-8
6AJ7		18	6.3	3	4-6-8	3-5-7
6AJ8		22	6.3	2	1-2-6	3-4
"		30	6.3	3	8-9	4
6AK5		26	6.3	2	1-5-6	(2-7)3
6AK6		28	6.3	3	1-2-5-6	3-7
6AK7		15	6.3	3	4-6-8	5-7
6AK9	8	25	6.3	2	3-4	2-7
"	8	27	6.3	2	5-6	2-7
"	0	30	6.3	2	2-3	1-7
6AK10	0	25	6.3	2	5-7	1-6
"	6	25	6.3	2	4-8	5-9
"	8	25	6.3	2	4-5	7-10
6AL3		17	6.3	3	(1-2-3-6-7-8-9)	4-10
6AL5		25	6.3	2	2	3-5
"		25	6.3	2	7	1-3
6AL9	2	25	6.3	2	7-9	1-8
"	5	23	6.3	2	2-3-7-9	1-6
6AL11	0	23	6.3	2	3-6-7	1-2-4
"	6	23	6.3	2	1-3-4	2-7
6AM4		21	6.3	2	(1-3-4-6-9) 5	2-7
6AM8		22	6.3	2	2-3-6	1-4-9
"		24	6.3	2	8	4-7
6AN4		16	6.3	3	(1-7) (2-6)	3-5
6AN5		18	6.3	3	1-5-6	2-3-7
6AN8		20	6.3	2	1-2	3-4
"		22	6.3	2	6-7-8	4-9
6AQ5		30	6.3	2	(1-7) 5-6	2-3
6AQ6		40	6.3	2	1-7	2-4
"		35	6.3	1	5	2-4
"		32	6.3	1	6	2-4
6AQ7		20	6.3	4	4-5	6-7
"		19	6.3	1	1	2-7
"		19	6.3	1	3	2-7
6AQ8		22	6.3	2	1-2	3-4
"		22	6.3	2	6-7	4-8
6AR5		25	6.3	3	1-5-6	2-3
6AR8		19	6.3	2	3-6-8-9	1-2-5-7
6AR11	0	22	6.3	2	2-3-4-5	1-6
"	8	22	6.3	2	2-3-4-5	6-9
6AS5		14	6.3	1	(2-5) 6-7	1-3

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6AS6		25	6.3	2	1-5-6-7	2-3
6AS7		18	6.3	3	1-2	3-8
"		18	6.3	3	4-5	6-8
6AS8		25	6.3	2	1-2-9	3-4-7
"		25	6.3	2	6	4-8
6AS11	0	23	6.3	2	3-4	1-7
"	0	23	6.3	2	6-8	1-5
"	5	15	6.3	3	2-3-7	1-6
6AT6		28	6.3	2	1-7	2-4
"		35	6.3	1	5	2-4
"		35	6.3	1	6	2-4
6AT7N		22	6.3	2	6-7	4-8
"		22	6.3	2	1-2	3-4
6AT8		22	6.3	2	1-2	2-4
"		22	6.3	2	6-7-9	3-4-8
6AU4		25	6.3	2	5	3-7
6AU5		20	6.3	3	1-5-8	2-3
6AU6		22	6.3	2	1-5-6	2-3-7
6AU7		25	3.3	2	1-2	3(4-5)
"		25	3.3	2	6-7	(4-5)8
6AU8		29	6.3	2	7-8-9	4-6
"		14	6.3	1	2-3	1-4
6AV5		19	6.3	3	1-5-8	2-3
6AV6		35	6.3	1	6	2-4
"		35	6.3	1	5	2-4
"		28	6.3	2	1-7	2-4
6AV11	0	25	6.3	2	5-7	1-6
"	5	25	6.3	2	1-2	6-9
"	5	25	6.3	2	3-7	6-8
6AW8		22	6.3	2	2-3	1-4
"		22	6.3	2	7-8-9	4-6
6AX3	7	21	6.3	3	4	1-8
6AX4		23	6.3	3	5	3-8
6AX5		37	6.3	3	3	2-8
"		37	6.3	3	5	2-8
6AX7		14	3.3	1	1-2	3(4-5)
"		14	3.3	1	6-7	(4-5)8
6AX8		24	6.3	2	2-3-6	4-7
"		24	6.3	2	1-9	4-8
6AY3		20	6.3	3	(2-7)	4-9
6AY11	0	23	6.3	2	3	1-2
"	0	12	6.3	1	5-6	1-4
"	0	12	6.3	1	7-8	1-9
"	5	23	6.3	2	2	3-6
6AZ8		21	6.3	2	1-2-6	3-4
"		21	6.3	2	8-9	4-7
6B8		21	6.3	3	3-6-10	2-8
"		24	6.3	1	4	2-8
"		24	6.3	1	5	2-8

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6B10	0	13	6.3	1	8	9-10
"	0	24	6.3	2	3-4	2-10
"	0	24	6.3	2	5-6	7-10
"	5	13	6.3	1	2	1-4
6B32		25	6.3	2	2	3-5
6BA3		20	6.3	3	(2-7)	5-9
6BA5		14	6.3	1	1-5-7	3-8
6BA6		23	6.3	2	1-5-6	3-7
6BA7		19	6.3	3	1-2	3-4-6-7
"		25	6.3	1	1-6-7-9	2-3-4
6BA8		25	6.3	2	2-3	1-4
"		23	6.3	2	7-8-9	4-6
6BA11	0	23	6.3	2	2-3-4	1-8-5
"	0	23	6.3	1	3-4-6	1-8-7
"	5	25	6.3	2	1-3	2-4
6BB14*		25	6.3	2	(1-2)(6-7)10	(3-8)4
"						
					●Cap goes to top of tube.	
					*Must use magnoval adapter.	
6BC4		24	6.3	2	1-2-3-7-8-9	4-6
6BC5		22	6.3	2	1-5-6	2-3-7
6BC7		22	6.3	2	2	1-4
"		22	6.3	2	6	4-7
"		22	6.3	2	8	4-9
6BC8		22	6.3	2	1-2	3-4
"		22	6.3	2	6-7	4-8
6BD7		30	6.3	1	6	3-4
"		32	6.3	1	8	3-4
"		27	6.3	2	1-2	3-4
6BD11	0	25	6.3	2	3-4	1-7
"	0	22	6.3	2	6-8	1-5
"	5	24	6.3	2	2-3-7	1-6
6BE3	0	15	6.3	3	4	1-7
6BE6		12	6.3	1	1-5-6-7	2-3
6BE7		26	6.3	2	6-7	(3-8)4
6BF5		19	6.3	3	1-5-6-7	2-3
6BF6		27	6.3	2	1-7	2-3
"		29	6.3	2	1-5	2-3
"		29	6.3	2	1-6	2-3
6BF7		26	6.3	2	1-2	3-4
"		26	6.3	2	7-8	3-5
6BF8		12	6.3	1	1	4-6
"		12	6.3	1	2	4-6
"		12	6.3	1	3	4-6
"		12	6.3	1	7	4-6
"		12	6.3	1	8	4-6
6BF11	0	14	6.3	1	3-5-6-7	1-2
"	7	20	6.3	3	2-4-5	3-8
6BH3		20	6.3	3	(2-7)	4-9
6BH6		23	6.3	2	1-5-6	2-3-7

TUBE	KEY		FIL.	SEL.	UP	DOWN
	AT	SHUNT				
6BH8		25	6.3	2	2-3	1-4
"		25	6.3	2	7-8-9	4-6
6BH11	0	20	6.3	2	3-4	1-2
"	0	20	6.3	2	6-7	1-5
"	7	20	6.3	2	2-3-4	5-8
6BJ3	5	17	6.3	3	(2-9)	4-10
6BJ6		26	6.3	2	1-5-6	2-3-7
6BJ7		25	6.3	2	2	1-4
"		25	6.3	2	6	4-7
"		25	6.3	2	8	4-9
6BJ8		14	6.3	1	1	2-5
"		14	6.3	1	6	3-5
"		22	6.3	3	7-8	5-9
6BK4		20	6.3	1	5-10 (1-3-4-6-8)	2
6BK5		24	6.3	3	1(3-7)8	4-6
6BK7		21	6.3	2	1-2	3-5
"		21	6.3	2	6-7	4-8
6BK8		15	6.3	1	6-9	3-4-8
6BK11	3	13	6.3	1	1-5	4-6
"	2	13	6.3	1	7-9	3-8
"	5	13	6.3	1	1-2	6-9
6BL7		19	6.3	3	1-2	3-7
"		19	6.3	3	4-5	6-7
6BL8		25	6.3	2	1-9	4-8
"		25	6.3	2	2-3-6	4-7
6BM8		27	6.3	3	1-9	4-8
"		27	6.3	2	3-6-7	2-4
6BN4		23	6.3	2	(2-7)5	(1-6)3
6BN6		100	6.3	1	2-5-6-7	1-3
"		Good above 40.				
6BN8		15	6.3	1	7-8	4-9
"		15	6.3	1	1	2-4
"		15	6.3	1	6	3-4
6BN11	0	20	6.3	2	3-4-5-6	1-2
"	7	20	6.3	2	1-3-4-5	2-8
6BQ5		15	6.3	3	(1-2)(6-9)(7-8)	3-4
6BQ6		16	6.3	3	4-5-10	2-8
6BQ7		25	6.3	2	1-2	3-4
"		25	6.3	2	6-7	4-8
6BR3		22	6.3	3	(2-9)	4-10
6BR7		24	6.3	2	1-2	3-5
"		25	6.3	2	6	5-8
"		25	6.3	2	7	5-8
6BR8		22	6.3	2	1-2	3-4
"		21	6.3	2	6-7-9	4-8
6BS3		17	6.3	3	(2-7)	4-9
6BS8		23	6.3	2	6-7	4-8
"		23	6.3	2	1-2	2-4

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6BU8		12	6.3	1	2-7-8	1-4-9
"		12	6.3	1	2-3-7	1-4-6
6BV8		25	6.3	2	2-3	1-4
"		25	6.3	2	6	4-8
"		25	6.3	2	9	4-7
6BV11	0	22	6.3	2	2-3-4-7	1-5
"	7	22	6.3	2	1-4-5-9	2-8
6BW3	0	20	6.3	3	4	1-7
6BW4		35	6.3	3	1	4-9
"		35	6.3	3	7	4-9
6BW6		26	6.3	2	(1-2)7-8-9	3-4
6BW8		25	6.3	2	1	2-4
"		25	6.3	2	3	2-4
"		23	6.3	2	6-8-9	4-7
6BW11	0	22	6.3	2	3-4-5	1-2
"	6	22	6.3	2	1-2-4	3-7
6BX7		23	6.3	3	4-5	6-7
"		23	6.3	3	1-2	3-7
6BY5		25	6.3	3	4	1-2
"		25	6.3	3	5	2-8
6BY6		25	6.3	2	1-5-6-7	2-3
6BY8		24	6.3	2	1-7-8	2-3-4-9
"		12	6.3	1	6	3-4
6BY11	0	22	6.3	2	3-5-6-7	1-2
"	8	22	6.3	2	3-5-6	4-9
6BZ3	0	17	6.3	3	4	1-7
6BZ6		22	6.3	2	1-5-6	2-3-7
6BZ7		16	6.3	3	1-2	3-4
"		16	6.3	3	6-7	4-8
6BZ8		20	6.3	2	1-2	3-5
"		20	6.3	2	6-7	4-8
6C4		25	6.3	3	(1-5)6	3-7
6C5		31	6.3	2	3-5	2-8
6C9		23	6.3	2	1-3	2-4-10
"		23	6.3	2	1-7-8	4-6
6C10	0	13	6.3	1	5-7	6-10
"	5	13	6.3	1	1-2	4-9
"	5	13	6.3	1	3-7	4-8
6C16		25	6.3	2	1-9	4-8
"		25	6.3	2	2-3-6	4-7
6C18		15	6.3	1	1-9	4(6-8)
"		13	6.3	1	2-3-7	4(6-8)
6CA4		18	6.3	3	1	3-4
"		18	6.3	3	7	3-4
6CA5		18	6.3	3	(2-5)6-7	1-3
6CA7		15	6.3	3	1-3-4-5	2-8

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6CA11	0	25	6.3	2	4-6	1-5
"	0	28	6.3	2	2-3	<u>1</u> -7
"	8	28	6.3	2	3-5-6	<u>4</u> -7
6CB5		19	6.3	3	(1-8) (4-5)10	<u>2</u> (3-6)
6CB6		22	6.3	2	1-5-6-7	2-3
6CC31		22	6.3	2	1-6	<u>3</u> -7
"		22	6.3	2	2-5	<u>3</u> -7
6CC42		25	6.3	3	6-7	<u>1</u> -8
"		25	6.3	2	3-4	<u>1</u> -2
6CC43		22	6.3	2	1-2	3-4
"		22	6.3	2	6-7	<u>4</u> -8
6CD3	0	15	6.3	3	4	<u>1</u> -7
6CD6		15	6.3	3	5-8-10	<u>2</u> -3
6CE3	0	14	6.3	3	4	<u>1</u> -7
6CE5		25	6.3	2	1-5-6	(2-7) <u>3</u>
6CF6		24	6.3	2	1-5-6	2-3
6CG3	0	15	6.3	3	4	<u>1</u> -7
6CG7		32	6.3	2	1-2	<u>3</u> -4
"		32	6.3	2	6-7	<u>4</u> -8
6CG8		22	6.3	2	1-2	(3-8) <u>4</u>
"		24	6.3	2	6-7-9	(3-8) <u>4</u>
6CH3		19	6.3	4	(2-7)	<u>4</u> -9
6CH8		24	6.3	2	2-3-7	<u>4</u> -6
"		26	6.3	2	8-9	<u>1</u> -4
6CH40		22	6.3	2	1-2-6	3- <u>4</u>
"		30	6.3	3	8-9	<u>4</u>
6CJ3		23	6.3	2	(2-7)	<u>4</u> -9
6CJ6		22	6.3	2	2(7-8)10	<u>3</u> -4
6CK3		15	6.3	3	(2-7)	<u>4</u> -9
6CK4		13	6.3	1	(1-3)5	<u>2</u> -8
6CL3		21	6.3	2	(2-7)	<u>4</u> -9
6CL5		19	6.3	3	(1-8) (4-5)C	<u>2</u> (3-6)
6CL6		15	6.3	3	(2-9) (3-8)6	<u>1</u> -4-7
6CL8		18	6.3	3	1-2	<u>3</u> -4
"		18	6.3	3	6-7-9	<u>4</u> -8
6CM3		15	6.3	3	(2-7)	<u>4</u> -9
6CM4		22	6.3	2	(1-9) (2-6-8)	<u>4</u> (3-7)
6CM5		15	6.3	3	(1-4)5-10	(3-8) <u>2</u>
6CM6		23	6.3	3	1(3-6)9	<u>4</u> -7
6CM7		15	6.3	1	1-8	<u>4</u> -9
"		15	6.3	1	6-7	<u>3</u> -4
6CM8		25	6.3	2	2-6-7	3- <u>4</u>
"		15	6.3	1	1-9	<u>4</u> -8
6CN7		15	3.3	1	1	3(4-5)
"		15	3.3	1	2	3(4-5)
"		30	3.3	3	7-8	(4-5) <u>6</u>
6CQ4		20	6.3	3	5	<u>3</u> -7

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6CQ6		27	6.3	2	1-5-7	2-3
6CQ8		13	6.3	1	1-9	5-8
"		13	6.3	1	2-3-6	5-7
6CR6		20	6.3	1	2	1-3
"		25	6.3	2	5-6-7	1-3
6CS6		24	6.3	2	1-5-6-7	2-3
6CS7		25	6.3	2	1-3	4-9
"		30	6.3	2	6-7	4-8
6CT3		24	6.3	2	(2-6)	4-9
6CU5		17	6.3	3	(2-5) 6-7	1-3
6CU6		16	6.3	3	4-5-10	2-8
6CU8		24	6.3	2	8-9	1-4
"		24	6.3	2	2-3-7	4-6
6CW4		13	6.3	1	2-4	3-8
6CW5		21	6.3	2	(1-2) (6-9) (7-8)	3-4
6CX8		22	6.3	2	7-8-9	4-6
"		24	6.3	2	2-3	1-4
6CY5		15	6.3	3	1-5	2-4-7
6CY7		12	6.3	1	1(2-3)	4-9
"		25	6.3	3	6-7	4-8
6CZ5		25	6.3	2	1(3-6)9	4-7
6D1		14	6.3	1	(1-5)6	3-7
6D4		22	6.3	3	1-7	3-5
6D10	3	12	6.3	1	1-5	2-6
"	0	12	6.3	1	5-7	1-6
"	5	12	6.3	1	1-2	4-9
6DA4		20	6.3	4	5	3-7
6DB5		25	6.3	3	3-6-9	2-4-7
6DC6		14	6.3	1	1-5-6-7	2-4
6DC8		18	6.3	3	1-2-6	3-4-9
"		20	6.3	1	7	3-4
"		20	6.3	1	8	3-4
6DE4		20	6.3	3	5	3-7
6DE6		15	6.3	3	1-5-6-7	2-3
6DE7		25	6.3	2	1(2-3)	4-9
"		32	6.3	2	6-7	4-8
6DG6		20	6.3	3	3-4-5	2-8
6DJ8		23	6.3	2	1-2	3-4
"		23	6.3	2	6-7	4-8
6DK3		16	6.3	3	(2-7)	4-10
6DK6		20	6.3	2	1-5-6	2-3-7
6DL3●		25	6.3	2	(2-7)	4-10
"	●Cap goes to top of tube.					
6DL4		21	6.3	2	(1-3-6-7-9)8	2-4
6DL5		21	6.3	3	1-5-6-7	2-3

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6DL8		65	6.3	2	9	4-8
"		65	6.3	2	1	4-8
"		25	6.3	3	6-7	2-4
6DM4		20	6.3	3	5	3-8
6DN3		23	6.3	2	(2-7)	4-9
6DN7		28	6.3	2	4-5	6-7
"		25	6.3	2	1-2	3-7
6DQ3	2	16	6.3	3	(6-10)	1-9
6DQ4		22	6.3	3	5	3-8
6DQ5		17	6.3	3	(1-5) (4-8) 10	2 (3-6)
6DQ6		17	6.3	3	4-5-10	2-8
6DR4		14	6.3	1	(1-5) 6	3-7
6DR7		15	6.3	1	6-7	4-8
"		17	6.3	3	1-2-3	4-9
6DS4		12	6.3	1	2-4	3-8
6DS5		30	6.3	1	5-6	1-2-3-7
6DS8		24	6.3	3	8-9	3-4
"		25	6.3	2	1-2-6	3-4
6DT3	5	25	6.3	2	(2-9)	6-10
6DT4		19	6.3	3	(1-5)	3-8
6DT5		28	6.3	2	3-6-9	4-7
6DT6		22	6.3	2	1-5-6	2-3-7
6DT8		22	6.3	2	6-7	4-8
"		22	6.3	2	1-2	3-4
6DU3	2	16	6.3	3	(6-10)	1-9
6DV4		20	6.3	2	(1-2) (4-6)	5-7
6DW4		23	6.3	2	(2-7)	4-9
6DX4		20	6.3	2	(1-7) (2-6)	3-5
6DX8		13	6.3	1	1-2	3-4
"		13	6.3	1	6-8-9	4-7
6DY5		27	6.3	2	2-7-9	3-4
6DY6		22	6.3	2	(1-7) (2-6)	3-5
6DZ4		24	6.3	2	(1-7) (2-6)	3-5
6DZ7		21	6.3	3	4-5-6	2-8
"		21	6.3	3	1-3-4	2-8
6DZ8		14	6.3	1	1-9	4-8
"		18	6.3	3	3-6-7	2-4
6E5		34	6.3	2	2-3-4	1-5
6E8		40	6.3	2	3-4-10	2-8
"		31	6.3	2	5-6	2-8
6EA4●	3	20	6.3	1	9-10	(1-5-8) 4
6EA5		20	6.3	2	1-5-6	(2-7) 3
6EA7		18	6.3	3	1-2	3-7
"		26	6.3	2	4-5	6-7
6EA8		15	6.3	3	2-3-6	4-7
"		14	6.3	3	1-9	4-8

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6EB8		13	6.3	1	2-3	1-4
"		22	6.3	2	7-8-9	<u>4-6</u>
6EC4*		21	6.3	2	(2-7-8)9	4-10
6ED4*		16	6.3	1	8-10 (1-2-3-6-7-9)4	4
6EF4	2	17	6.3	1	8-10	1- <u>7</u>
6EH4●	2	18	6.3	1	8-10	3(4- <u>7</u>)
6EH5		19	6.3	4	2-5-6-7	1- <u>3</u>
6EH7		22	6.3	2	2-7-8	(1-3)4
6EH8		20	6.3	2	2-3	1-5- <u>6</u>
"		20	6.3	2	7-8-9	1- <u>5-6</u>
6EJ4●	2	20	6.3	1	8-10	<u>3-7</u>
6EJ7		22	6.3	2	2-7-8	(1- <u>3</u>)4
6EL4		20	6.3	1	5-10 (1-3-4-6-8)2	2
6EM5		26	6.3	2	1(3-6)9	<u>4-7</u>
6EM7		14	6.3	3	1-2	3-7
"		13	6.3	1	4-5	6- <u>7</u>
6EN4		45	6.3	2	(5-6)10 (1-3-4-8)2	2
6EQ7		25	6.3	2	1-2-6-7	3- <u>4</u>
"		15	6.3	1	2-8	3- <u>4</u>
6ER5		13	6.3	1	2-5	(1-7)3
6ES5		21	6.3	2	2-5-6	1-3- <u>7</u>
6ES6		14	6.3	1	1-5-6	<u>2-4</u>
6ES8		21	6.3	2	1-2	3-4
"		21	6.3	2	6-7	4-8
6ET6		25	6.3	2	1-5-6	<u>2-3</u>
6EU7		12	6.3	1	5-6	2- <u>4</u>
"		12	6.3	1	7-8	<u>2-9</u>
6EU8		20	6.3	2	2-3	<u>5-6</u>
"		15	6.3	3	1-7-9	<u>5-8</u>
6EV5		22	6.3	2	1-5-6	(2- <u>7</u>)3
6EV7		25	6.3	2	1-2	3- <u>4</u>
"		25	6.3	2	6-7	<u>4-8</u>
6EW6		20	6.3	2	1-5-6-7	2-3
6EW7		15	6.3	3	1(2-3)	<u>5-9</u>
"		25	6.3	3	6-7	<u>5-8</u>
6EX6		16	6.3	3	5-8-10	<u>2-3</u>
6EZ5		19	6.3	3	3-4-5	<u>2-8</u>
6EZ8		13	6.3	1	2-3	<u>1-4</u>
"		13	6.3	1	6-7	<u>4</u>
"		13	6.3	1	8-9	<u>4</u>
6F5		14	6.3	1	4-10	2-8
6F6		33	6.3	3	3-4-5	<u>2-8</u>
6F10		18	6.3	3	4-6-8	3- <u>5-7</u>
6F19		18	6.3	2	2-7-8	(1-3)4
6F21		27	6.3	2	1-5-7	2- <u>3</u>
6F22		23	6.3	3	1- <u>2-6-7-9</u>	3-4
6F23		22	6.3	2	2-7-8	(1-3)4

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6F26		18	6.3	2	2-7-8	(1-3)4
6F29		22	6.3	2	2-7-8	(1-3)4
6F30		22	6.3	2	2-7-8	(1-3)4
6F32		26	6.3	2	1-5-6	(2-7)3
6F33		25	6.3	2	1-5-6-7	2-3
6F35		20	6.3	2	1-5-6	<u>2-3-7</u>
6FD6		12	6.3	1	1-2-5-6	3-7
6FD7		13	6.3	1	1(2-3)	4-9
"		13	6.3	1	6-7	4-8
6FE5		17	6.3	3	3-4-5	7-8
6FG5		23	6.3	2	1-5-6	(2-7)3
6FG6		100	6.3	4	<u>2-6-7-8-9</u>	1-3-4
6FG7		17	6.3	3	1-2	3-5-8
"		17	6.3	3	6-7-9	<u>3-5-8</u>
6FH5		22	6.3	2	2-5	(1-7)4
6FH8		22	6.3	2	2-3	4
"		15	6.3	1	6-7-8	4
"		15	6.3	1	6-7-9	4
"		15	6.3	1	1-6-7	4
6FJ7	0	23	6.3	2	3-5	1-7
"	5	30	6.3	2	2-3	1-6
6FM7	0	14	6.3	3	(3-8)5	1-7
"	7	13	6.3	1	4-5	3-6
6FM8		13	6.3	1	2	3-4
"		13	6.3	1	6	1-4
"		30	6.3	2	8-9	<u>4-7</u>
6FQ5		20	6.3	4	2-5	4
6FQ7		25	6.3	2	1-2	3-4
"		25	6.3	2	6-7	4-8
6FR7		14	6.3	3	1(2-3)	5-9
"		25	6.3	3	6-7	5-8
6FS5		25	6.3	2	1-5-6	(2-7)3
6FV6		13	6.3	1	1-5-6	3-7
6FV8		30	6.3	2	1-2	5-6
"		21	6.3	2	6-7-9	<u>2-8</u>
6FW8		18	6.3	3	1-2	3-4
"		18	6.3	3	6-7	4-8
6FY5		22	6.3	2	2-5	1-3-7
6FY7	0	15	6.3	3	3-5	7-10
"	5	13	6.3	1	2-3	1-4
6G11	6	20	6.3	3	1-3-4	2-7
"	0	28	6.3	2	3-6-7	2-10
6GA7	0	16	6.3	3	(2-3)4-7	5-10
"	7	20	6.3	3	5	<u>2-6</u>
6GB3		25	6.3	2	4-5-10	7-8
6GB5*		14	6.3	3	(1-2)(6-7)10	(3-8)4
6GB6		20	6.3	3	4-6-10	<u>2-8</u>

TUBE	KEY		FIL.	SEL.	UP	DOWN
	AT	SHUNT				
6GB7		23	6.3	2	4-5-10	2-8
6GB9		17	6.3	3	4-5-10	<u>2-8</u>
6GC5		21	6.3	3	(1-8) (3-6) 9	<u>5-7</u>
6GC6		15	6.3	3	(4-8) 5-10	<u>2-3</u>
6GE5	0	15	6.3	3	2-3-7	<u>1-4</u>
6GE8		27	6.3	3		
"		15	6.3	1	3-6	2-4
6GF5	0	16	6.3	3	1-8-9	<u>4-7</u>
6GF7		17	6.3	3	2-3-7	4-10
"		15	6.3	3	2-6	<u>3-4</u>
6GH8		15	6.3	1	8-9	<u>1-4</u>
"		21	6.3	2	2-3-6	<u>4-7</u>
6GJ5●		21	6.3	2	1-9	<u>4-8</u>
		16	6.3	3	(1-7) (2-6) 8-10	<u>3-4</u>
6GJ7		18	6.3	3		
"		21	6.3	2	8-9	(1-3) 4
6GK5		15	6.3	3	2-6-7	(1-3) <u>4</u>
6GK6		30	6.3	2	2-5	(1-7) <u>3</u>
6GK17		19	6.3	3	2-7-8	(3-9) <u>1-4</u>
6GL7		25	6.3	2	5	<u>3-7</u>
"		22	6.3	2	4-5	<u>6-8</u>
					1-2	<u>3-8</u>
6GM5		24	6.3	2		
6GM6		20	6.3	2	1-6-9	4-7
6GM8		16	6.3	1	1-5-6-7	<u>2-3</u>
"		15	6.3	1	1-2	<u>3-4</u>
6GN8		13	6.3	1	6-7	<u>4-8</u>
"		17	6.3	3	2-3	<u>1-4</u>
6GQ7		20	6.3	3	7-8-9	<u>4-6</u>
"		20	6.3	3	2	<u>1-4</u>
"		20	6.3	3	6	<u>4-7</u>
		20	6.3	3	8	<u>4-9</u>
6GS7		25	6.3	2		
"		25	6.3	2	1-2	(3-8) 4
6GT5		17	6.3	3	6-7-9	(3-8) <u>4</u>
6GU5		23	6.3	2	(1-7) (2-6) 9	<u>3-4</u>
6GU7		23	6.3	2	1-5-6	(2-7) <u>3</u>
"		23	6.3	2	1-2	<u>3-4</u>
6GV5●	4	20	6.3	3	6-7	<u>4-8</u>
		20	6.3	3	(2-7) 9-10	<u>3</u> (1-8)
6GV7		15	6.3	1		
"		13	6.3	1	1-9	<u>4</u> (6-8)
6GV8		23	6.3	2	2-3-7	<u>4</u> (6-8)
"		15	6.3	3	1-2	<u>3-4</u>
6GW5		23	6.3	2	6-7-9	<u>4-8</u>
6GW6		17	6.3	3	1 (2-6)	<u>3-5</u>
6GW8		14	6.3	1	4-5-10	<u>2-8</u>
"		19	6.3	3	1-9	<u>2-4</u>
6GX6		13	6.3	1	3-6-8	<u>4-7</u>
6GX7		20	6.3	2	1-5-6	<u>2-3-7</u>
"		20	6.3	2	8-9	(1-3) <u>4</u>
		20	6.3	2	2-6-7	(1-3) <u>4</u>

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6GY5●	4	14	6.3	3	(2-7) 9-10	(1-8) 3
6GY6		13	6.3	1	1-5-6	<u>2-3-7</u>
6GY8		17	6.3	1	1-2	<u>5</u>
"		13	6.3	1	3-9	<u>5-8</u>
"		15	6.3	1	6	<u>5-7</u>
6GZ5		13	6.3	1	(2-5) 6-7	<u>1-3</u>
6H6		15	6.3	1	5	<u>2-8</u>
"		15	6.3	1	3	<u>2-4</u>
6HA5		22	6.3	2	1-5	(2-7) <u>3</u>
6HA6		15	6.3	3	2(3-9) (6-8)	<u>1-4</u>
6HB5	0	15	6.3	3	2-3-7	<u>4-10</u>
6HB6		15	6.3	3	2(6-8)	<u>1-5</u>
"		18	6.3	1	(3-9) 7	<u>1-5</u>
6HB7		20	6.3	2	8-9	(1-3) <u>4</u>
"		20	6.3	2	2-6-7	(1-3) <u>4</u>
6HD5	0	15	6.3	3	3-5-7-9	<u>4-10</u>
6HD7		23	6.3	2	2-6-7	(1-3) <u>4</u>
"		23	6.3	2	8-9	(1-3) <u>4</u>
6HE5	0	18	6.3	3	(2-9) 3-6	<u>4-10</u>
6HE7	4	15	6.3	3	6	(3-5) <u>8</u>
"	7	15	6.3	3	3-5-10	2(6-8)
6HF5●	2	15	6.3	3	5-8(7-10)	<u>1-6</u>
6HF8		13	6.3	1	2-3	<u>1-5</u>
"		15	6.3	3	7-8-9	<u>5-6</u>
6HG5		21	6.3	3	(1-7) 5-6	<u>2-4</u>
6HG8		21	6.3	2	2-8-9	(1-3) <u>4</u>
"		23	6.3	2	6-7	(1-3) <u>4</u>
6HJ5	0	13	6.3	3	3-4(5-9) 7	<u>1-2</u>
6HJ8		20	6.3	3	8	<u>4-7</u>
"		20	6.3	3	2-3-6	<u>1-4-9</u>
6HK5		21	6.3	2	1-5	(2-7) <u>3</u>
6HL5		15	6.3	3	(1-2) 7-9	<u>3-4</u>
6HL8		21	6.3	2	1-9	<u>4-8</u>
"		26	6.3	2	3-6	<u>4-7</u>
6HM5		22	6.3	2	1-5	(2-7) <u>3</u>
6HM6		22	6.3	2	2-7-8	(1-3) <u>4-9</u>
6HQ5		22	6.3	2	1-5	(2-7) <u>3</u>
6HR5		21	6.3	3	(1-7) 5-6	<u>2-3</u>
6HR6		14	6.3	3	1-2-5-6	<u>4-7</u>
6HS5	0	15	6.3	3	2-3-7	<u>4-10</u>
6HS8		22	6.3	4	2-7-8	<u>1-5-6</u>
"		22	6.3	4	2-3-7	<u>1-5-9</u>
6HT5●	2	40	6.3	2	8-10	<u>3-7</u>
6HT6		24	6.3	2	2-7-8	1-3- <u>4-9</u>
6HU6		15	6.3	1	1(2-6-8)	<u>3-4</u>
"		15	6.3	1	7	<u>3-4</u>
"		15	6.3	1	9	<u>3-4</u>

TUBE	KEY		FIL.	SEL.	UP	DOWN	
	AT	SHUNT					
6HU8		22	6.3	2	1-2-3	4-7	
"		22	6.3	2	6-8-9	4-7	
6HV5	0	15	6.3	3	2-3-7	4-10	
6HZ5	0	15	6.3	3	2-3-7	4-10	
6HZ6		22	6.3	2	1-5-6-7	2-3	
6HZ8		25	6.3	2	2-3	1-5	
"		15	6.3	3	7-8-9	5-6	
6J4		23	6.3	2	1-5-6-7	2-3	
6J5		24	6.3	2	3-5	2-8	
6J6		22	6.3	2	1-6	3-7	
"		22	6.3	2	2-5	3-7	
6J7		20	6.3	1	3-4-10	2-5-8	
6J9		20	6.3	2	1-2	3-4	
"		20	6.3	2	6-9	4-10	
"		20	6.3	2	7-8	4-10	
6J10	5	16	6.3	3	1-3-7	6-8	
"	0	75	6.3	1	4-5-6-7	1-8	
"		Good above 25.					
6J11	0	15	6.3	3	2-3-4-5	6-10	
"	7	15	6.3	3	1-3-4-5	2-6	
6JA5	0	27	6.3	2	3(2-9)6	1-4	
6JA8		26	6.3	2	7-8-9	4-6	
"		14	6.3	1	2-3	1-4	
6JB5	0	23	6.3	3	(2-9)3-6	4-10	
6JB6●		23	6.3	3	(1-7)(2-6)8-10	3-4	
6JC5	0	20	6.3	3	(2-9)3-6	4-10	
6JC6		20	6.3	2	2-7-8-9	(1-3)4	
6JC8		16	6.3	3	2-3-6	1-5-7-8-9	
"		18	6.3	3	8-9	1-2-3-5-6-7	
6JD5	0	15	6.3	3	2-3-7	4-10	
6JD6		15	6.3	3	2-7-8	(1-3)4-9	
6JE6●		18	6.3	3	(1-7)(2-6)10	3-4-8	
6JE8		20	6.3	2	2-3	1-4	
"		16	6.3	3	7-8-9	4-6	
6JF6●		15	6.3	3	(1-7)(2-6)8-10	3-5	
6JG5		25	6.3	2	7-8-9	4-6	
6JG6		15	6.3	3	(1-7)2-6-9	3-4	
6JH5	0	25	6.3	2	2-3(7-8)	1-4	
6JH6		20	6.3	2	1-5-6	2-3-7	
6JH8		17	6.3	3	3-6-8-9	1-2-4-7	
6JK5	0	25	6.3	2	2-3(7-8)	1-4	
6JK6		20	6.3	2	1-5-6-7	2-3	
6JK8		21	6.3	2	1-2	3-4	
"		21	6.3	2	6-7	4-8	
6JL6		15	6.3	3	1-6	2-3	
"		20	6.3	1	5-7	2-3	
6JM6●	2	15	6.3	3	5-6-7-10	3-4	

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6JN6	5	15	6.3	3	(2-9)3-8-10	6-7
6JN8		14	6.3	3	1-2	<u>3-4</u>
"		14	6.3	3	6-7-9	<u>4-8</u>
6JQ6		15	6.3	1	1(2-3)6(7-8)	<u>4-9</u>
6JR6		24	6.3	2	(1-7)2-6-9	<u>3-4</u>
6JS6●	3	16	6.3	3	(1-6)7-8	<u>4-5</u>
6JT6		17	6.3	2	(1-7)2-6-9	3-4
6JT8		28	6.3	3	2-3	<u>1-4</u>
"		16	6.3	1	7-8-9	<u>4-6</u>
6JU6●		16	6.3	3	(1-7)(2-6)8-10	<u>3-4</u>
6JU8		15	6.3	1	1	<u>4-2</u>
"		19	6.3	1	1-2	<u>4</u>
"		15	6.3	1	7	<u>4-8</u>
"		19	6.3	1	7-8	<u>4</u>
6JV8		12	6.3	1	2-3	<u>1-4</u>
"		20	6.3	3	7-8-9	<u>4-6</u>
6JW8		22	6.3	2	2-3-6	4-7
"		23	6.3	2	1-9	<u>4-8</u>
6JX8		12	6.3	1	8-9	<u>3-4</u>
"		12	6.3	1	2-6-8	<u>3-4</u>
6JY8		24	6.3	2	2-3	<u>1-4</u>
"		25	6.3	2	7-8-9	<u>4-6</u>
6JZ6●	3	15	6.3	2	6-7-8-10	<u>4-5</u>
6JZ8	0	15	6.3	3	4(6-7)8	<u>1-9</u>
"	4	25	6.3	3	1-6	<u>2-5</u>
6K6		29	6.3	3	3-4-5	2-8
6K7		35	6.3	2	3-4-10	<u>2-8</u>
6K8		19	6.3	1	3-4	<u>2-8</u>
"		14	6.3	1	4-5	<u>2-8</u>
"		14	6.3	1	5-6	<u>2-8</u>
6K11	0	30	6.3	3	5-7	<u>6-10</u>
"	5	30	6.3	2	1-2	<u>6-9</u>
"	6	30	6.3	3	4-8	<u>7-9</u>
6KA8		25	6.3	2	7-8-9	<u>3-4</u>
"		30	6.3	2	1	<u>3-4</u>
6KD6●	2	20	6.3	2	5-7-10	3-4
6KD8		20	6.3	2	2-3-6	<u>4-7</u>
"		23	6.3	2	1-9	<u>4-8</u>
6KE8		21	6.3	2	2-3-6	<u>4-7</u>
"		23	6.3	2	1-9	<u>4-8</u>
6KF8		22	6.3	2	2-3-7	1-4-6
"		22	6.3	2	2-7-8	1-4-9
6KG6*		20	6.3	4	(1-8)(2-7)(3-6)10	<u>4-9</u>
6KH8		22	6.3	3	1-2	4-7
"		18	6.3	3	2-3-9	<u>4-7</u>
"		18	6.3	3	6-8-9	<u>4-7</u>

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6KL8		20	6.3	1	8	3-4
"		14	6.3	1	2-6-7	1-3-4
6KM6●		16	6.3	3	(1-7)(2-6)8-10	3-4
6KM8		80	6.3	2	1-2-9	4-6
"		24	6.3	2	7-8	4-6
"		21	6.3	1	3	4-6
6KN8		23	6.3	2	1-2	3-4
"		23	6.3	2	6-7	4-8
6KN6●	2	13	6.3	3	5-6-7-10	1-4
6KR8		15	6.3	3	7-8-9	4-6
"		15	6.3	3	2-3	1-4
6KS6		100	6.3	1	2-5-6-7	1-3
"		Good above 40.				1-3
6KT6		20	6.3	2	2-7-8-9	(1-3)4
6KT8		22	6.3	2	2-3	1-4
"		22	6.3	2	7-8-9	4-6
6KU8		27	6.3	1	2	1-4
"		27	6.3	1	3	1-4
"		22	6.3	2	7-8-9	4-6
6KV6		18	6.3	3	1(2-7)9	3-4
6KV8		12	6.3	1	2-3	1-4
"		22	6.3	2	7-8-9	4-6
6KX8		26	6.3	2	1-3	2-4
"		26	6.3	2	7-9	4-8
6KY6		14	6.3	3	2(1-7)9	1(3-9)4
6KY8		18	6.3	3	2-6-7	3-4
"		13	6.3	1	8-9	1-4
6KZ8		15	6.3	3	1-9	4-8
"		15	6.3	3	2-6-7	3-4
6L6		19	6.3	3	3-4-5	2-8
6L31		30	6.3	2	(1-7)5-6	2-3
6LB6	2	20	6.3	4	5-6-10	3-4-7
6LB8		25	6.3	2	2-3	1-4
"		14	6.3	3	7-8-9	4-6
6LC6		15	6.3	1	5-10	2-6
6LC8		21	6.3	2	6-8-9	3-5-7
"		23	6.3	2	1-2	3-5
6LD6		20	6.3	4	2(6-8)7	1-4
6LE8		23	6.3	2	1-2-8-9	3-4
"		23	6.3	2	6-7-8-9	3-4
6LF6●	2	16	6.3	3	5-6-7-10	1-4
6LF8		15	6.3	3	7-8-9	4-6
"		20	6.3	1	2-3	1-4
6LG6	6	25	6.3	2	2(4-9)10	3-5
6LH6		45	6.3	4	5-10	2-6
6LJ6		50	6.3	2	5-10	2-6
6LJ8		24	6.3	2	1-2	(3-8)4
"		24	6.3	2	6-7-9	(3-8)4

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6LM8		22	6.3	2	2-3-6	<u>4-7</u>
"		22	6.3	2	1-9	<u>4-8</u>
6LN8		22	6.3	2	2-3-6	<u>4-7</u>
"		24	6.3	2	1-9	<u>4-8</u>
6LQ6●		15	6.3	3	(1-7) (2-6) 10	<u>3-4</u>
6LQ8		21	6.3	2	2-3	<u>1-4</u>
"		21	6.3	2	7-8-9	<u>4-6</u>
6LR6●	3	15	6.3	3	(1-6) 7-8	<u>4-5</u>
6LR8		23	6.3	2	2-6-7	<u>3-4</u>
"		26	6.3	2	8-9	<u>1-4</u>
6LT8		22	6.3	2	2-3-9	1-4
"		24	6.3	2	6	<u>4-7</u>
"		24	6.3	2	8	<u>4-7</u>
6LU6		26	6.3	2	1-5-6-7	<u>2-3</u>
6LU8	0	17	6.3	3	4(6-7) 8	<u>1-9</u>
"	4	12	6.3	1	1-6	<u>2-5</u>
6LV6●	2	15	6.3	3	5-6-7-10	<u>1-4</u>
"		●Cap goes to top of tube.				
6LW6		16	6.3	3	1-3-5-10	(2-6) <u>7</u>
6LX6●	3	17	6.3	3	(1-6) 7-8	<u>4-5</u>
"		●Cap goes to top of tube.				
6LX8		22	6.3	2	2-3-6	<u>4-7</u>
"		23	6.3	2	1-9	<u>4-8</u>
6LY8		25	6.3	2	2-3	<u>1-4</u>
"		20	6.3	2	7-8-9	<u>4-6</u>
6LZ6●		26	6.3	2	(1-7) (2-6) 9	<u>3-4</u>
"		●Cap goes to top of tube.				
6M3		15	6.3	4	(3-5-7)	(<u>1-2</u>) 10
6M11	0	20	6.3	2	5-6	<u>1-4</u>
"	0	20	6.3	2	7-8	<u>1-9</u>
"	4	14	6.3	3	2-6-7	<u>1-3</u>
6MA6		50	6.3	2	6-10	<u>3-7</u>
6MB6●	5	27	6.3	2	(2-9) (3-8)	<u>4-7</u>
"		●Cap goes to top of tube.				
6MB8		30	6.3	2	2	<u>3-4</u>
"		34	6.3	2	6-7	<u>4-8</u>
6MC6●		27	6.3	2	(1-7) (2-6) 10	<u>3-4</u>
"		●Cap goes to top of tube.				
6MD8		24	6.3	2	1-9	<u>4-7</u>
"		24	6.3	2	2-8	<u>4-7</u>
"		24	6.3	2	3-6	<u>4-7</u>
6ME5		32	6.3	2	1-2	<u>4-7</u>
"		0	6.3	4	2-5	1- <u>4-7</u>
"		Eye closed.				
"		0	6.3	4	5	1-2- <u>4-7</u>
"		Eye open.				
6ME6●		25	6.3	2	(1-7) (2-6) 10	<u>3-4</u>
"		●Cap goes to top of tube.				

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6ME8		16	6.3	3	1-3-6-8	2-5-7-9
"		16	6.3	3	2-3-6-9	1-5-7-8
6MF8	0	23	6.3	2	4(6-7)8	1-9
"	4	23	6.3	2	1-6	2-5
6MG8		24	6.3	2	1-9	5-8
"		24	6.3	2	2-3-6	5-7
6MH1		23	6.3	2	1-5-6-7	2-3
6MHH3		25	6.3	2	2-5	4-7
"		25	6.3	2	1-6	4-7
6MH6●	2	16	6.3	3	5-6-7-10	1-4
"		●Cap goes to top of tube.				
6MJ6		18	6.3	3	(1-7)(2-6)10	3-4-8
6MJ8	3	26	6.3	2	1-5	4-6
"	4	26	6.3	2	1-8	5-7
"	0	26	6.3	2	6-8	1-3
6MK8		22	6.3	2	2-3-7	1-4-6
"		22	6.3	2	2-7-8	1-4-9
6ML4		25	6.3	2	(1-7)(2-6)	3-5
6ML8		24	6.3	2	1-9	4-7
"		24	6.3	2	2-8	4-7
"		24	6.3	2	3-6	4-7
6MN8	0	20	6.3	3	6-8	3-10
"	5	20	6.3	3	2-9	6-8
"	5	20	6.3	3	3-7	6-8
6MP17		27	6.3	2	1-5-6	2-3
6MP20		25	6.3	2	1-5-6-7	2-3
6MQ8		25	6.3	2	2-3-6	5-7
"		25	6.3	2	1-9	5-8
6MU8		26	6.3	2	1-9	4-8
"		26	6.3	2	2-3-6	4-7
6MV8		32	6.3	2	2-3	4
"		30	6.3	2	7-8-9	4
6MX8		18	6.3	3	2-6-7	3-4
"		13	6.3	1	8-9	1-4
6MY8	0	16	6.3	3	4(6-7)8	1-9
"	4	12	6.3	1	1-6	2-5
6N3		20	6.3	3	9	3-4
6N4		24	6.3	2	(1-7)5	(2-6)3
6N7		30	6.3	1	5-6	2-8
"		30	6.3	3	3-4	2-8
6PL12		27	6.3	3	1-9	4-8
"		27	6.3	2	3-6-7	2-4
6Q4		15	6.3	3	1-2-7-8-9	3-4
6Q8		32	6.3	2	5-6	2-8
"		40	6.3	2	3-4	2-8
6Q11	0	14	6.3	1	5-7	6-10
"	5	14	6.3	1	3-7	4-8
"	5	25	6.3	2	1-2	4-9

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6R3		22	6.3	2	2-9	4-10
6R4		20	6.3	3	1-8	3-4
6R8		28	6.3	2	2	3-4
"		25	6.3	2	6	4-7
"		28	6.3	2	1	4-7
"		28	6.3	2	8-9	4-7
6RA6		25	6.3	2	(2-7)9	1-4
6RA9		25	6.3	2	(2-7)9	1-4
6RB11		26	6.3	2	1(3-6)9	4-7
6RHH2		25	6.3	2	1-2	3-4
"		25	6.3	2	6-7	4-8
6RHH8		23	6.3	2	1-2	3-4
"		23	6.3	2	6-7	4-8
6RK19		22	6.3	3	(2-9)	4-10
6RP15		23	6.3	2	(1-2)7-9	3-4
6RP22		25	6.3	2	(2-9)(3-8)6	1-4
6S4		21	6.3	3	(3-6)9	2-4
6SA7		26	6.3	2	3-4-5	2-6
6SC7		30	6.3	2	2-3	6-8
"		30	6.3	2	4-5	6-8
6SH5	0	20	6.3	2	2-3-7	1-4
6SH7		22	6.3	2	4-6-8	2-3-5
6SH8		25	6.3	2	2-3-7	1-4-6
"		25	6.3	2	2-7-8	1-4-9
6SJ7		15	6.3	1	3-4-6-8	2-5
6SK7		30	6.3	2	4-6-8	2-3-5
6SL7		31	6.3	3	1-2	3-7
"		31	6.3	3	4-5	6-7
6SN7		25	6.3	2	1-2	3-7
"		25	6.3	2	4-5	6-7
6SQ7		15	6.3	1	2-6	3-8
"		28	6.3	1	4	3-8
"		28	6.3	1	5	3-8
6T1		22	6.3	2	(1-7)(2-6)	3-5
6T4		20	6.3	2	(1-7)(2-6)	3-5
6T8		15	6.3	1	2	3-4
"		15	6.3	1	6	4-7
"		15	6.3	1	1	4-7
"		25	6.3	3	8-9	4-7
6T9	0	25	6.3	2	2-4	1-5
"	6	22	6.3	2	1-3-4	2-7
6T10	0	18	6.3	3	3-5-6-7	1-2
"	7	18	6.3	3	2-4-5	3-8
6U3		17	6.3	3	9	3-4
6U8		20	6.3	2	2-3-6	4-7
"		23	6.3	2	1-9	4-8
6U9#		22	6.3	2	3-4-7-8	2-6
"#		26	6.3	2	9-10	1-6

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6U10	3	25	6.3	2	1-5	2-6
"	5	25	6.3	2	1-2	4-9
"	0	13	6.3	1	5-7	6-10
6V3		17	6.3	3	(2-7-9)	4-10
6V4		22	6.3	3	1	3-4
"		22	6.3	3	7	3-4
6V6		20	6.3	3	3-4-5	2-8
6V9#		30	6.3	2	2-3-4	6-1
"#		30	6.3	2	8-10	6-9
6W6		23	6.3	3	3-4-5	2-8
6X4		32	6.3	3	1	3-7
"		32	6.3	3	6	3-7
6X5		32	6.3	3	3	2-8
"		32	6.3	3	5	2-8
6X8		24	6.3	2	2-3	4-6
"		24	6.3	2	7-8-9	1-4-6
6X9#		24	6.3	2	3-4-7	2-6
"#		25	6.3	2	9-10	1-6
6Y6		19	6.3	3	3-4-5	2-8
6Y9#		24	6.3	2	1-3-4	2-6
"#		25	6.3	2	8-9-10	6-7
6Y10	0	23	6.3	2	3-5-6-7	1-2
"	7	23	6.3	2	2-4-5	3-8
6Z4		32	6.3	3	1	3-7
"		32	6.3	3	6	3-7
6Z10	5	16	6.3	3	1-3-7	6-8
"	0	100	6.3	1	4-5-6-7	1-8
"		Good above 25.				
7A6		16	6.3	1	3	1-2
"		16	6.3	1	6	1-7
7A8		30	6.3	2	3-4	1-7
"		40	6.3	2	2-5-6	1-7
7AB7		27	6.3	3	1-3-5	2(4-6-8)
7AG7		22	6.3	2	2-3-6	1-4-5-7
7AU7		25	3.3	2	1-2	3(4-5)
"		25	3.3	2	6-7	(4-5)8
7B7		28	6.3	2	2-3-6	1-4-7
7C5		23	6.3	3	2-3-6	1-7
7C6		34	6.3	3	2-3	1-4-7
"		22	6.3	1	5	1-4-7
"		22	6.3	1	6	1-4-7
7C7		12	6.3	1	2-3-6	1-4-7
7CL8		18	7.5	3	1-2	3-4
"		18	7.5	3	6-7-9	4-8
7D11		19	6.3	3	3-4-5	1-7-8
7DZ7		21	7.5	3	4-5-6	2-8
"		21	7.5	3	1-3-4	2-8
7E5		25	6.3	2	(1-5)(3-7)	2(4-6)

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
7ES8		25	7.5	2	6-7	5-8
"		25	7.5	2	1-2	<u>3-5</u>
7F7		15	6.3	1	3-4	1-2
"		15	6.3	1	5-6	<u>1-7</u>
7GS7		25	6.3	2	1-2	(3-8)4
"		22	6.3	2	6-7-9	(3-8) <u>4</u>
7GV7		15	6.3	1	1-9	4(6-8)
"		13	6.3	1	2-3-7	<u>4</u> (6-8)
7GX7		20	7.5	2	8-9	<u>7</u> (1-3)4
"		20	7.5	2	2-6-7	(1-3) <u>4</u>
7HG8		21	6.3	2	2-8-9	(1-3)4
"		23	6.3	2	6-7	(1-3) <u>4</u>
7K7		14	6.3	1	3-4	<u>1-2</u>
"		25	6.3	1	5	<u>1</u>
"		25	6.3	1	6	<u>1</u>
7KY6		14	7.5	3	2-7-8	1(3-9) <u>4</u>
7KZ6		14	7.5	3	2-7-8	1(3-9) <u>4</u>
7MP18		25	7.5	2	(1-7)	2- <u>3</u>
7N7		26	6.3	2	5-6	1- <u>7</u>
"		26	6.3	2	3-4	<u>1-2</u>
7SC7		30	7.5	2	2-3	6-8
"		30	7.5	2	4-5	6-8
7W7		24	6.3	2	2-3-6	<u>1</u> (4-7) <u>5</u>
8A8		21	7.5	2	2-3-6	5-7
"		24	7.5	3	1-9	<u>5-8</u>
8AC9	0	25	7.5	2	2	<u>1-3</u>
"	0	25	7.5	2	(2-3)	<u>1-4</u>
"	7	25	7.5	2	1-3-4-5	<u>2-8</u>
8AC10	3	21	7.5	2	1-5	4- <u>6</u>
"	0	21	7.5	2	5-7	<u>1-6</u>
"	5	21	7.5	2	1-2	<u>6-9</u>
8D8		30	7.5	2	1-6-8-9	3-4
8AL9	2	25	7.5	2	7-9	1- <u>8</u>
"	5	23	7.5	2	2-3-7-9	<u>1-6</u>
8AR11	0	22	7.5	2	2-3-4-5	1- <u>6</u>
"	8	22	7.5	2	2-3-4-5	<u>6-9</u>
8AV11	0	25	7.5	2	5-7	1- <u>5</u>
"	5	25	7.5	2	1-2	<u>6-9</u>
"	5	25	7.5	2	3-7	<u>6-8</u>
8AW8		22	7.5	2	2-3	<u>1-4</u>
"		22	7.5	2	7-8-9	<u>4-6</u>
8B8		32	7.5	2	1-9	4-8
"		21	7.5	2	3-6-7	<u>2-4</u>
8B10	5	26	7.5	2	2	1- <u>4</u>
"	0	26	7.5	2	8	9- <u>10</u>
"	0	25	7.5	2	5-6	<u>7-10</u>
"	0	25	7.5	2	3-4	2- <u>10</u>

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
8BA8		25	7.5	2	2-3	1-4
"		23	7.5	2	7-8-9	4-6
8BA11	0	23	7.5	2	2-3-4	1-8
"	0	23	7.5	1	4-6-7	1-8
"	5	25	7.5	2	1-3	2-6
8BH8		25	7.5	2	2-3	1-4
"		25	7.5	2	7-8-9	4-6
8BM11	0	23	7.5	2	2-3-4-6	1-5
"	7	23	7.5	2	1-2-3-5	4-6
8BN11	0	20	7.5	2	3-4-5-6	1-2
"	7	20	7.5	2	1-3-4-5	2-8
8BQ5		18	7.5	3	(1-2) (6-9) (7-8)	3-4
8BQ11	0	20	7.5	2	2-3-4-5	1-6
"	7	20	7.5	2	1-2-3-4	5-6
8BU11	0	22	7.5	2	3-4	1-2
"	0	22	7.5	2	6-7	1-5
"	6	22	7.5	2	1-2-3	4-7
8CB11	0	22	7.5	2	2-3-4-5	1-6
"	8	22	7.5	2	2-3-4-5	6-9
8CG7		29	7.5	2	6-7	8-4
"		29	7.5	2	1-2	3-4
8CN7		30	5.0	3	7-8	(4-5) 6
"		15	5.0	1	2	3(4-5)
"		15	5.0	1	1	3(4-5)
8CS7		25	7.5	2	1-3	4-9
"		30	7.5	2	6-7	4-8
8CW5		21	7.5	2	(1-2) (6-9) (7-8)	3-4
8CX8		22	7.5	2	7-8-9	4-6
"		24	7.5	2	2-3	1-4
8CY7		12	7.5	1	1(2-3)	4-9
"		25	7.5	3	6-7	4-8
8D5		15	6.3	1	1-7-8-9	3-4
8D6		24	6.3	2	2-7-8-9	1-3-4
8DX8		26	7.5	2	8-9	3-5-6-7
"		26	7.5	2	1-2	3-5
8EB8		13	7.5	1	2-3	1-4
"		22	7.5	2	7-8-9	4-6
8EM5		26	7.5	2	1(3-6) 9	4-7
8ET7		24	7.5	2	7-8-9	4-6
"		45	7.5	1	3	1-4
"		45	7.5	1	2	1-4
8FE5		17	7.5	3	3-4-5	7-8
8FQ7		25	7.5	2	1-2	3-4
"		25	7.5	2	6-7	4-8
8FY7	0	15	7.5	3	3-5	7-10
"	5	13	7.5	1	2-3	1-4
8GJ7		18	7.5	3	8-9	(1-3) 4
"		21	7.5	2	2-6-7	(1-3) 4

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
8GN8		13	7.5	1	2-3	1-4
"		17	7.5	3	7-8-9	4-6
8GU7		23	7.5	2	1-2	3-4
"		23	7.5	2	6-7	4-8
8HA6		15	7.5	3	2(3-9)(6-8)	1-4
8HG8		21	7.5	2	2-8-9	(1-3)4
"		23	7.5	2	6-7	(1-3)4
8JE8		20	7.5	2	2-3	1-4
"		16	7.5	3	7-8-9	4-6
8JT8		21	7.5	3	2-3	1-4
"		16	7.5	1	7-8-9	4-6
8JU8		15	7.5	1	1	2-4
"		19	7.5	1	1-2	4
"		15	7.5	1	7	4-8
"		19	7.5	1	7-8	4
8JV8		13	7.5	1	2-3	1-5
"		17	7.5	3	7-8-9	5-6
8K11	0	28	7.5	3	5-7	6-10
"	5	30	7.5	2	1-2	6-9
"	6	28	7.5	3	4-8	7-9
8KA8		25	7.5	2	7-8-9	3-4
"		30	7.5	2	1	3-4
8KR8		15	7.5	3	7-8-9	4-6
"		15	7.5	3	2-3	1-4
8KS8		19	7.5	2	7-8-9	4-6
"		24	7.5	2	2-3	1-4
8LC8		21	7.5	2	6-8-9	3-5-7
"		23	7.5	2	1-2	3-5
8LE8		23	7.5	2	1-2-8-9	3-4
"		23	7.5	2	6-7-8-9	3-4
8LS6		25	7.5	2	2(3-9)7	1-4
8LT8		22	7.5	2	2-3-9	1-4
"		24	7.5	2	6	4-7
"		24	7.5	2	8	4-7
8LX8		22	7.5	2	2-3-6	4-7
"		23	7.5	2	1-9	4-8
8MD8		24	7.5	2	1-9	4-7
"		24	7.5	2	2-8	4-7
"		24	7.5	2	3-6	4-7
8MU8		26	7.5	2	1-9	4-8
"		26	7.5	2	2-3-6	4-7
8MV8		32	7.5	2	2-3	4
"		30	7.5	2	7-8-9	4
8U9#		22	7.5	2	3-4-7-8	2-6
"#		26	7.5	2	9-10	1-6
8X9#		24	7.5	2	3-4-7	2-6
"#		25	7.5	2	9-10	1-6

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
9A8		31	7.5	2	2-3-6	5-7
"		24	7.5	3	1-9	5-8
9AH9	0	20	7.5	3	2-3	1-4
"	7	23	7.5	2	2-5-10	1-8
9AK10	0	25	7.5	2	5-7	1-6
"	6	25	7.5	2	4-8	5-9
"	8	25	7.5	2	4-5	7-10
9AM10	0	25	7.5	2	5-7	1-6
"	6	25	7.5	2	4-8	5-9
"	8	25	7.5	2	4-5	7-10
9AQ8		22	7.5	2	1-2	3-4
"		22	7.5	2	6-7	4-8
9AU7		25	5.0	2	1-2	3(4-5)
"		25	5.0	2	6-7	(4-5)8
9BJ11	0	25	7.5	2	2-3-4-6	5-10
"	8	25	7.5	2	2-3-4-6	5-9
9BR7		26	5.0	2	7	4-5-8
"		26	5.0	2	6	4-5-8
"		25	5.0	2	1-2	3-4-5
9CG8		22	7.5	2	1-2	(3-8)4
"		24	7.5	2	6-7-9	(3-8)4
9CL8		14	7.5	3	1-2	3-4
"		13	7.5	3	6-7-9	4-8
9DK3		16	7.5	3	(2-7)	4-10
9DZ8		14	7.5	1	1-9	4-8
"		18	7.5	3	3-6-7	2-4
9EA8		15	7.5	3	2-3-6	4-7
"		14	7.5	3	1-9	4-8
9ED4*		16	7.5	1	8-10 (1-2-3-6-7-9)	4
9GH8		23	7.5	2	2-3-6	4-7
"		23	7.5	2	1-9	4-8
9GV7		15	7.5	1	1-9	4(6-8)
"		13	7.5	1	2-3-7	4(6-8)
9GV8		23	7.5	2	1-2	3-4
"		15	7.5	3	6-7-9	4-8
9JW8		25	7.5	2	1-9	4-8
"		24	7.5	2	2-3-6	4-7
9KC6		14	7.5	3	2-6-7-9	1-4
9KG6*		23	7.5	4	(1-8)(2-7)(3-6)10	5-9
9KX6		14	7.5	3	2(3-9)7-8	1-4
9KZ8		15	7.5	3	1-9	4-8
"		15	7.5	3	2-6-7	3-4
9LA6		15	7.5	3	2-7-8	1(3-9)4
9MD8		24	7.5	2	1-9	4-7
"		24	7.5	2	2-8	4-7
"		24	7.5	2	3-6	4-7
9MHH3		25	7.5	2	2-6	3-7
"		25	7.5	2	1-5	3-7

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
9ML8		24	7.5	2	1-9	<u>4-7</u>
"		24	7.5	2	2-8	<u>4-7</u>
"		24	7.5	2	3-6	<u>4-7</u>
9MN8	0	20	7.5	3	6-8	<u>3-10</u>
"	5	20	7.5	3	2-9	<u>6-8</u>
"	5	20	7.5	3	3-7	<u>6-8</u>
9MP12		27	7.5	2	1-5-6	<u>2-4</u>
9RA6		25	7.5	2	(2-7)9	<u>1-4-9</u>
9RAL1		20	7.5	2	1(2-3)	<u>4-9</u>
"		25	7.5	2	6-7	<u>4-8</u>
9U8		20	7.5	2	2-3-6	<u>4-7</u>
"		23	7.5	2	1-9	<u>4-8</u>
9V9#		30	7.5	2	2-3-4	<u>1-6</u>
"#		30	7.5	2	8-10	<u>6-9</u>
9X8		24	7.5	2	2-3	<u>4-6</u>
"		24	7.5	2	7-8-9	<u>1-4-6</u>
10AF11	0	28	7.5	2	3-4	<u>7-10</u>
"	0	26	7.5	2	6-8	<u>5-10</u>
"	5	26	7.5	2	2-3	<u>1-4</u>
10AL11	6	25	7.5	2	1-3-4	<u>2-5</u>
"	0	25	7.5	2	3-4-6-7	<u>2-5-10</u>
10BQ5		18	7.5	3	(1-2) (6-9) (7-8)	<u>3-4</u>
10C8		24	7.5	2	1-2	<u>3-4</u>
"		19	7.5	2	6-7-8	<u>4-9</u>
10CW5		21	7.5	2	(1-2) (6-9) (7-8)	<u>3-4</u>
10DE7		25	7.5	2	1(2-3)	<u>4-9</u>
"		32	7.5	2	6-7	<u>4-8</u>
10DX8		13	7.5	1	1-2	<u>3-4</u>
"		13	7.5	1	6-8-9	<u>4-7</u>
10EB8		13	7.5	1	2-3	<u>1-4</u>
"		22	7.5	2	7-8-9	<u>4-6</u>
10EG7		13	7.5	1	1-2	<u>3-7</u>
"		13	7.5	1	4-5	<u>6-7</u>
10EM7		15	7.5	2	1-2-3	<u>4-9</u>
"		16	7.5	3	6-7	<u>4-8</u>
10EW7		15	7.5	3	1(2-3)	<u>5-9</u>
"		25	7.5	3	6-7	<u>5-8</u>
10FD7		13	7.5	1	1(2-3)	<u>4-9</u>
"		13	7.5	1	6-7	<u>4-8</u>
10FG7		17	7.5	3	2-6	<u>3-4</u>
"		15	7.5	1	8-9	<u>1-4</u>
10GK6		30	7.5	2	2-7-8	<u>1(3-9)4</u>
10GN8		13	7.5	1	2-3	<u>1-4</u>
"		26	7.5	2	7-8-9	<u>4-6</u>
10GV8		23	7.5	2	1-2	<u>3-4</u>
"		15	7.5	3	6-7-9	<u>4-8</u>
10HA6		15	7.5	3	2(3-9) (6-8)	<u>1-4</u>

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN	
10HF8		22	7.5	2	7-8-9	<u>4-6</u>	
"		24	7.5	2	2-3	<u>1-4</u>	
10JA5	0	27	7.5	2	3(2-9)6	<u>1-4</u>	
10JT8		16	7.5	1	2-3	<u>1-4</u>	
"		21	7.5	2	7-8-9	<u>4-6</u>	
10JY8		24	7.5	2	2-3	<u>1-4</u>	
"		25	7.5	2	7-8-9	<u>4-6</u>	
10KR8		15	7.5	3	7-8-9	<u>4-6</u>	
"		15	7.5	3	2-3	<u>1-4</u>	
10KU8		27	7.5	1	2	<u>1-4</u>	
"		27	7.5	1	3	<u>1-4</u>	
"		22	7.5	2	7-8-9	<u>4-6</u>	
10L14		22	25	2	1-2	<u>3-4</u>	
10LB8		25	7.5	2	2-3	<u>1-4</u>	
"		14	7.5	3	7-8-9	<u>4-6</u>	
10LD6		20	7.5	4	2(6-8)7	<u>1-4</u>	
10LE8		23	7.5	2	1-2-8-9	<u>3-4</u>	
"		23	7.5	2	6-7-8-9	<u>3-4</u>	
10LM8		22	7.5	2	2-3-6	<u>4-7</u>	
"		22	7.5	2	1-9	<u>4-8</u>	
10LW8		27	7.5	2	2-3	<u>1-4</u>	
"		23	7.5	2	7-8-9	<u>4-6</u>	
10LY8		25	7.5	2	2-3	<u>1-4</u>	
"		20	7.5	2	7-8-9	<u>4-6</u>	
10LZ8		24	7.5	2	2-3	<u>1-4</u>	
"		29	7.5	2	7-8-9	<u>4-6</u>	
10P18		16	50	3	(1-2)(7-8)9	<u>3-5</u>	
10T10	0	20	7.5	3	3-5-6-7	<u>1-2</u>	
"	7	20	7.5	3	2-4-5	<u>3-8</u>	
10Z10	5	17	7.5	3	1-3-7	<u>6-8</u>	
"	0	75	7.5	1	4-5-6-7	<u>1-8</u>	
"		Good above 25.					
11AF9#		22	12.6	2	1-3-4	<u>2-6-7</u>	
" #		28	12.6	2	8-9-10	<u>2-6</u>	
11AR11	0	22	12.6	2	2-3-4-5	<u>1-6</u>	
"	8	22	12.6	2	2-3-4-5	<u>6-9</u>	
11BM8		25	12.6	2	3-6-7	<u>2-4</u>	
"		27	12.6	2	1-9	<u>4-8</u>	
11BQ11	0	20	12.6	2	2-3-4-5	<u>1-6</u>	
"	7	20	12.6	2	1-2-3-4	<u>5-6</u>	
11BT11	0	17	12.6	3	3-9	<u>1-4</u>	
"	0	20	12.6	3	5-7	<u>1-6</u>	
"	7	17	12.6	3	4-5-9	<u>2-8</u>	
11C5		17	12.6	3	(2-5)6-7	<u>1-3</u>	
11CA11	0	25	7.5	2	4-6	<u>1-5</u>	
"	0	28	7.5	2	2-3	<u>1-7</u>	
"	8	28	7.5	2	3-5-6	<u>4-7</u>	

TUBE	KEY		FIL.	SEL.	UP	DOWN
	AT	SHUNT				
11CF11	0	15	7.5	1	3-4-5	<u>1-6</u>
"	5	15	7.5	1	3-7	<u>6-10</u>
"	6	15	7.5	1	2-3	<u>1-5</u>
11CH11	0	17	12.6	3	3-9	<u>1-4</u>
"	0	20	12.6	3	5-7	<u>1-6</u>
"	7	16	12.6	3	4-5-9	<u>2-8</u>
11CY7		12	12.6	1	1(2-3)	<u>4-9</u>
"		25	12.6	3	6-7	<u>4-8</u>
11DS5		26	12.6	2	(1-7)5-6	<u>2-3</u>
11FY7	0	17	12.6	3	3-5	<u>7-10</u>
"	5	15	12.6	1	2-3	<u>1-4</u>
11HM7		14	6.3	3	2-7-8 1(3-9)	<u>(4-5)</u>
11JE8		28	12.6	2	2-3	<u>1-4</u>
"		16	12.6	3	7-8-9	<u>4-6</u>
11KV8		12	12.6	1	2-3	<u>1-4</u>
"		22	12.6	2	7-8-9	<u>4-6</u>
11LQ8		21	12.6	2	2-3	<u>1-4</u>
"		21	12.6	2	7-8-9	<u>4-6</u>
11LT8		22	12.6	2	2-3-9	<u>1-4</u>
"		24	12.6	2	6	<u>4-7</u>
"		24	12.6	2	8	<u>4-7</u>
11LY6		26	7.5	2	2(3-9)7-8	<u>1-4</u>
11MS8		27	7.5	2	1-2	<u>3-4</u>
"		25	7.5	2	6-7-9	<u>4-8</u>
11R3		22	12.6	2	2-9	<u>4-10</u>
11Y9#		24	12.6	2	1-3-4	<u>2-6</u>
" #		25	12.6	2	8-9-10	<u>7-6</u>
12A4		16	6.3	3	(2-7)9	<u>1(4-5)</u>
12AB5		25	12.6	3	(1-8)(3-6)9	<u>5-7</u>
12AC6		14	12.6	1	1-5-6	<u>2-3-7</u>
12AC10	3	26	12.6	2	1-5	<u>4-6</u>
"	0	26	12.6	2	5-7	<u>1-6</u>
"	5	26	12.6	2	1-2	<u>6-9</u>
12AD6		16	12.6	1	1-5-6-7	<u>2-3</u>
12AE6		35	12.6	1	5	<u>2-3</u>
"		35	12.6	1	6	<u>2-3</u>
"		15	12.6	1	1-7	<u>2-3</u>
12AE10	0	27	12.6	2	3-5-7	<u>1-2</u>
"	8	27	12.6	2	3-5-6	<u>4-7</u>
12AF3		20	12.6	3	(2-9)	<u>4-10</u>
12AF6		16	12.6	1	1-5-6	<u>2-3-7</u>
12AF11	0	28	12.6	2	3-4	<u>7-10</u>
"	0	26	12.6	2	6-8	<u>5-10</u>
"	5	26	12.6	2	2-3	<u>1-4</u>
12AG6		14	12.6	1	1-5-6-7	<u>2-3</u>
12AG7		15	12.6	3	4-6-8	<u>5-7</u>

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
12AJ6		35	12.6	1	5	2-3
"		28	12.6	1	6	2-3
"		14	12.6	1	1-7	2-3
12AJ7		28	12.6	2	8-9	3-5
"		26	12.6	2	2-6-7	3-5
12AL5		25	12.6	2	2	3-5
"		25	12.6	2	7	1-3
12AL8		29	12.6	2	1-8	4-9
"		20	12.6	3	2-6	4-7
12AL11	0	23	12.6	2	3-6-7	1-2-4
"	6	23	12.6	2	1-3-4	2-7
12AQ5		30	12.6	3	(1-7)5-6	2-3
12AS5		13	12.6	1	(2-5)6-7	1-3
12AT6		35	12.6	1	6	2-4
"		35	12.6	1	5	2-4
"		28	12.6	2	1-7	2-4
12AT7		23	6.3	2	1-2	3(4-5)
"		23	6.3	2	6-7	(4-5)8
12AU6		22	12.6	2	1-5-6	2-3-7
12AU7		25	6.3	2	1-2	3(4-5)
"		25	6.3	2	6-7	(4-5)8
12AV5		19	12.6	3	1-5-8	2-3
12AV6		35	12.6	1	6	2-4
"		35	12.6	1	5	2-4
"		28	12.6	2	1-7	2-4
12AV7		17	6.3	3	1-2	3(4-5)
"		17	6.3	3	6-7	(4-5)8
12AW6		32	12.6	2	1-5-6-7	2-3
12AX3	7	21	12.6	3	4	1-8
12AX4		23	12.6	3	5	3-8
12AX7		14	6.3	1	1-2	3(4-5)
"		14	6.3	1	6-7	(4-5)8
12AY3		20	12.6	2	(2-7)	4-9
12AY7		14	6.3	1	6-7	4-5-8
"		14	6.3	1	1-2	3-4-5
12AZ7		16	6.3	1	1-2	3(4-5)
"		16	6.3	1	6-7	(4-5)8
12B4		23	6.3	2	(2-7)9	1(4-5)
12BA6		23	12.6	2	1-5-6	3-7
12BA7		20	12.6	1	1-6-7-9	2-3-4
"		19	12.6	3	1-2	3-4-6-7-9
12BB14*		22	12.6	2	(1-2)(6-7)10	(3-8)4
12BE3	0	15	12.6	3	4	1-7
12BE6		12	12.6	1	1-5-6-7	2-3
12BF6		27	12.6	2	1-7	2-3
"		29	12.6	2	1-5	2-3
"		29	12.6	2	1-6	2-3

TUBE	KEY		FIL.	SEL.	UP	DOWN
	AT	SHUNT				
12BF11	0	14	12.6	1	3-5-6-7	<u>1-2</u>
"	7	20	12.6	3	2-4-5	<u>3-8</u>
12BH7		22	6.3	2	1-2	3(<u>4-5</u>)
"		22	6.3	2	6-7	(<u>4-5</u>)8
12BL6		14	12.6	1	1-5-6	<u>2-3-7</u>
12BN6		100	12.6	1	2-4-6-7	<u>1-3</u>
"		Good	above	40.		
12BQ6		16	12.6	3	4-5-10	<u>2-8</u>
12BR7		24	6.3	2	1-2	3(<u>4-5</u>)
"		25	6.3	2	6	(<u>4-5</u>)8
"		25	6.3	2	7	(<u>4-5</u>)8
12BS3		17	12.6	3	(2-7)	<u>4-9</u>
12BT3	0	18	12.6	3	4	<u>7-10</u>
12BV7		15	6.3	3	2-7-8 1(3-9)	(<u>4-5</u>)
12BV11	0	22	12.6	2	2-3-4-7	<u>1-5</u>
"	7	22	12.6	2	1-4-5-9	<u>2-8</u>
12BW4		35	12.6	3	1	<u>4-9</u>
"		35	12.6	3	7	<u>4-9</u>
12BY3		20	12.6	3	(2-9)	<u>4-10</u>
12BY7		25	6.3	2	2-7-8 1(3-9)	(<u>4-5</u>)
12BZ6		22	12.6	2	1-5-6	<u>2-3-7</u>
12BZ7		21	6.3	3	6-7	<u>9-8</u>
"		20	6.3	3	1-2	<u>3-9</u>
12C5		17	12.6	3	(2-5)6-7	<u>1-3</u>
12CA4		18	12.6	3	1	<u>3-4</u>
"		18	12.6	3	7	<u>3-4</u>
12CA5		18	12.6	3	(2-5)6-7	<u>1-3</u>
12CK3		15	12.6	3	(2-7)	<u>4-9</u>
12CL3		21	12.6	2	(2-7)	<u>4-9</u>
12CM6		23	12.6	3	1(3-6)9	<u>4-7</u>
12CR6		20	12.6	1	2	<u>1-3</u>
"		25	12.6	2	5-6-7	<u>1-3</u>
12CS6		24	12.6	2	1-5-6-7	<u>2-3</u>
12CT3		24	12.6	2	(2-6)	<u>4-9</u>
12CT8		23	12.6	3	1-2	<u>3-4</u>
"		23	12.6	3	6-7-8	<u>4-9</u>
12CU5		17	12.6	3	(2-5)6-7	<u>1-3</u>
12CU6		16	12.6	3	4-5-10	<u>2-8</u>
12D4		17	12.6	3	5	<u>3-8</u>
12DB5		13	12.6	3	3-6-9	<u>2-4-7</u>
12DE8		20	12.6	3	3	<u>2-4</u>
"		15	12.6	1	1-6-8	<u>4-9</u>
12DF5		40	6.3	3	6	<u>8-9</u>
"		40	6.3	3	1	<u>3-9</u>
12DJ8		23	12.6	2	1-2	<u>3-4</u>
"		23	12.6	2	6-7	<u>4-8</u>
12DK6		20	12.6	2	1-5-6	<u>2-3-7</u>

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
12DK7		35	12.6	1	9	2- <u>4</u>
"		35	12.6	1	6	2- <u>4</u>
"		25	12.6	2	1-3-7- <u>8</u>	2- <u>4</u>
12DL8		65	12.6	2	9	4- <u>8</u>
"		65	12.6	2	1	4-8
"		25	12.6	3	6-7	2- <u>4</u>
12DM4		20	12.6	3	5	3- <u>8</u>
12DQ6		17	12.6	3	4-5-10	2- <u>8</u>
12DQ7		16	6.3	3	2-7-8	1-3-4- <u>5</u> -9
12DS7		35	12.6	1	1	4-8
"		35	12.6	1	9	4-8
"		13	12.6	1	3-6-7	4-8
12DT5		30	12.6	1	1-9	3-4- <u>6</u> -7
12DT7		13	6.3	1	1-2	3(4- <u>5</u>)
"		13	6.3	1	6-7	(4- <u>5</u>)8
12DT8		22	12.6	2	6-7	4-8
"		22	12.6	2	1-2	3-4
12DV7		15	6.3	1	6-7	4-5- <u>8</u>
"		55	6.3	1	2	1-4- <u>5</u>
"		55	6.3	1	3	1-4- <u>5</u>
12DV8		25	12.6	2	3-6-7	2- <u>5</u>
"		63	12.6	2	9	5-8
"		56	12.6	2	1	5-8
12DW4		23	12.6	2	(2-7)	4-9
12DW7		14	6.3	1	2-6-7	8(4- <u>5</u>)
"		14	6.3	1	1-2-7	3(4- <u>5</u>)
12DZ6		15	12.6	3	1-5-6	2-3-7
12DZ7		21	12.6	3	4-5-6	2-8
"		21	12.6	3	1-3-4	2-8
12DZ8		14	12.6	1	1-9	4-8
"		18	12.6	3	3-6-7	2-4
12E13		19	6.3	3	3-4-5	1-7-8
12EA6		15	12.6	3	1-5-6	2-3-7
12ED5		16	12.6	3	2-5-6-7	1-3
12EK6		15	12.6	1	1-5-6	2-3- <u>7</u>
12EN6		25	12.6	2	3-4-5	2-8
12EQ7		25	12.6	2	1-2-6-7	3-4
"		15	12.6	1	2-8	3-4
12F8		35	12.6	1	1	4-7
"		35	12.6	1	6	4-7
"		16	12.6	1	2-3-8	4-7-9
12FM6		25	12.6	1	5	2-4
"		25	12.6	1	6	2-4
"		13	12.6	1	1-7	2-4
12FQ7		25	12.6	2	1-2	3-4
"		25	12.6	2	6-7	4-8

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
12FQ8		15	12.6	1	1-2	<u>4-9</u>
"		15	12.6	1	2-3	<u>4-9</u>
"		15	12.6	1	6-7	<u>4-9</u>
"		15	12.6	1	7-8	<u>4-9</u>
12FR8		13	12.6	1	3-6-7	<u>5</u>
"		13	12.6	1	1-9	<u>2-5</u>
"		30	12.6	1	8	<u>2-5</u>
12FV7		15	6.3	3	1-2	3(<u>4-5</u>)
"		15	6.3	3	6-7	(<u>4-5</u>) <u>8</u>
12FX5		21	12.6	2	(2-5)6-7	<u>1-3</u>
12FX8		15	12.6	1	2-3-9	<u>5-7</u>
"		15	12.6	1	6-8	<u>5</u>
12GA6		14	12.6	1	1-6-7	<u>2-3</u>
12GB3		25	12.6	2	4-5-10	<u>2-8</u>
12GB7		23	12.6	2	4-5-10	<u>2-8</u>
12GC6		15	12.6	3	(4-8)5-10	<u>2-3</u>
12GE5	0	15	12.6	3	2-3-7	<u>1-4</u>
12GJ5●		16	12.6	3	(1-7)(2-6)8-10	<u>3-4</u>
12GN7		14	6.3	3	2-7-8 1(3-9)	(<u>4-5</u>)
12GT5		17	12.6	3	(1-7)(2-6)9	<u>3-4</u>
12GV5●	4	19	12.6	3	(2-7)9-10	(1-8) <u>3</u>
"		●Cap goes to top of tube.				
12GW6		17	12.6	3	4-5-10	<u>2-8</u>
12H4		26	6.3	2	(1-5)6	(<u>3-4</u>) <u>7</u>
12HB25*		25	12.6	2	(1-2)(3-8)(6-7)10	<u>4-9</u>
"		●Cap goes to top of tube.				
"		*Must use magnoval adapter.				
12HE7	4	15	6.3	3	6	(3-5) <u>8</u>
"	7	15	6.3	3	3-5-10	2(<u>6-8</u>)
12HG7		14	6.3	3	2-7-8 1(3-9)	(<u>4-5</u>)
12HL5		15	12.6	3	(1-2)7-9	<u>3-4</u>
12HL7		15	6.3	3	2(3-9)7-8	1(<u>4-5</u>)
12HU8		22	12.6	2	1-2-3	<u>4-7</u>
"		22	12.6	2	6-8-9	<u>4-7</u>
12J5		24	12.6	2	3-5	<u>2-8</u>
12JB6●		23	12.6	3	(1-7)(2-6)8-10	<u>3-4</u>
12JF5●	5	26	12.6	2	(3-8)7-10	(2-9) <u>4</u>
"		●Cap goes to top of tube.				
12JM6●	2	16	12.6	3	5-6-7	<u>3-4</u>
"		●Cap goes to top of tube.				
12JN6	5	15	12.6	3	(2-9)3-8-10	<u>6-7</u>
12JN8		14	12.6	3	1-2	<u>3-4</u>
"		14	12.6	3	6-7-9	<u>4-8</u>
12JQ6		18	12.6	3	1(2-3)(7-8)	<u>4-9</u>
"		18	12.6	1	6	<u>4-9</u>
12JS6●	3	17	12.6	3	(<u>1-6</u>)7-8	<u>4-5</u>
"		●Cap goes to top of tube.				
12JT6		17	12.6	2	(1-7)2-6-9	<u>3-4</u>

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
12JZ6	0	15	12.6	3	4(6-7)8	1-9
"	4	25	12.6	3	1-6	<u>2-5</u>
12K5		14	12.6	1	2(5-6)7	1- <u>3</u>
12KG6*		20	12.6	4	***	<u>4-9</u>
"	***	(1-8)	(2-7)	(3-6)	10	
12KL8		20	12.6	1	8	3- <u>4</u>
"		14	12.6	1	2-6-7	1-3- <u>4</u>
12L6		18	12.6	3	3-4-5	<u>2-8</u>
12MD8		24	12.6	2	1-9	4-7
"		24	12.6	2	2-8	<u>4-7</u>
"		24	12.6	2	3-6	<u>4-7</u>
12ML8		24	12.6	2	1-9	<u>4-7</u>
"		24	12.6	2	2-8	<u>4-7</u>
"		24	12.6	2	3-6	<u>4-7</u>
12MX8		18	12.6	3	2-6-7	3- <u>4</u>
"		13	12.6	1	8-9	1- <u>4</u>
12RK19		16	12.6	3	(2-9)	4-10
12RLL3		17	6.3	3	1-2	3(<u>4-5</u>)
"		17	6.3	3	6-7	(<u>4-5</u>)8
12SA7		42	12.6	2	3-8	<u>2-6</u>
"		28	12.6	2	4-5	<u>2-6</u>
12SF5		15	12.6	1	3-5	<u>2-7</u>
12SJ7		15	12.6	1	3-4-6-8	<u>2-5</u>
12SK7		29	12.6	3	3-4-6-8	<u>2-5</u>
12SL7		30	12.6	3	4-5	<u>6-7</u>
"		30	12.6	3	1-2	3- <u>7</u>
12SN7		25	12.6	2	1-2	3-7
"		25	12.6	2	4-5	<u>6-7</u>
12SQ7		15	12.6	1	2-6	3-8
"		28	12.6	1	4	3- <u>8</u>
"		28	12.6	1	5	3- <u>8</u>
12T10	0	18	12.6	3	3-5-6-7	1- <u>2</u>
"	7	18	12.6	3	2-4-5	3-8
12W6		23	12.6	3	3-4-5	<u>2-8</u>
12X4		32	12.6	3	1	3-7
"		32	12.6	3	6	<u>3-7</u>
13CM5		15	12.6	3	(1-4)5-10	<u>2(3-8)</u>
13CW4		12	12.6	1	2-4	5-8
13DE7		25	12.6	2	1(2-3)	<u>4-9</u>
"		32	12.6	2	6-7	<u>4-8</u>
13DR7		25	12.6	3	6-7	<u>4-8</u>
"		17	12.6	3	1-2-3	<u>4-9</u>
13EM7		15	12.6	3	1-2	3-7
"		14	12.6	1	4-5	<u>6-7</u>
13FD7		13	12.6	1	1(2-3)	<u>4-9</u>
"		13	12.6	1	6-7	<u>4-8</u>
13FM7	0	14	12.6	3	(3-8)5	1-7
"	7	13	12.6	1	4-5	<u>3-6</u>

TUBE	KEY			SEL.	UP	DOWN
	AT	SHUNT	FIL.			
13GB5*		14	12.6	3	(1-2) (6-7) 10	(3-8) <u>4</u>
13GF7		17	12.6	3	2-6	<u>3-4</u>
"		15	12.6	1	8-9	<u>1-4</u>
13J10	5	16	12.6	3	1-3-7	<u>6-8</u>
"	0	75	12.6	1	4-5-6-7	<u>1-8</u>
		Good above 25.				
13JZ8	0	25	12.6	2	4(6-7) 8	<u>1-9</u>
"	4	32	12.6	2	1-6	<u>2-3</u>
13V10	0	25	12.6	2	3-5-6-7	<u>1-2</u>
"	7	25	12.6	2	2-4-5	<u>3-8</u>
13Z10	5	16	12.6	3	1-3-7	<u>6-8</u>
"	0	75	12.6	1	4-5-6-7	<u>1-8</u>
14BL11	0	25	12.6	2	2-9	<u>1-4</u>
"	0	23	12.6	2	5-7	<u>1-6</u>
"	7	21	12.6	2	4-5-9	<u>2-8</u>
14BQ11	0	20	12.6	2	2-3-4-5	<u>1-6</u>
"	7	20	12.6	2	1-2-3-4	<u>5-6</u>
14BR11	3	22	12.6	2	1-5-6	<u>4-7</u>
"	0	22	12.6	2	6-8	<u>1-5</u>
"	7	22	12.6	2	3-4	<u>1-8</u>
14GT8		13	12.6	1	2	<u>3-4</u>
"		13	12.6	1	6	<u>1-4</u>
"		13	12.6	1	8-9	<u>4-7</u>
14GW8		14	12.6	1	1-9	<u>2-4</u>
"		19	12.6	3	3-6-8	<u>4-7</u>
14JG8		13	12.6	1	2	<u>3-4</u>
"		13	12.6	1	6	<u>1-4</u>
"		25	12.6	2	8-9	<u>4-7</u>
14W7		24	12.6	2	2-3-6	<u>1(4-7) 5</u>
15AF11	0	24	12.6	2	3-4	<u>7-10</u>
"	0	24	12.6	2	6-8	<u>5-10</u>
"	5	18	12.6	3	2-3-7	<u>1-4</u>
15BD11	0	25	12.6	2	3-4	<u>1-7</u>
"	0	22	12.6	2	6-8	<u>1-5</u>
"	5	24	12.6	2	2-3-7	<u>1-6</u>
15CW5		21	12.6	2	(1-2) (6-9) (7-8)	<u>3-4</u>
15DQ8		25	12.6	2	1-2	<u>3-4</u>
"		15	12.6	1	6-8-9	<u>4-7</u>
15EA7		16	12.6	3	1-2	<u>3-8</u>
"		15	12.6	1	4-5	<u>6-8</u>
15EW7		15	12.6	3	1(2-3)	<u>5-9</u>
"		25	12.6	3	6-7	<u>5-8</u>
15FM7	0	15	12.6	3	(3-8) 5	<u>7-10</u>
"	7	14	12.6	1	4-5	<u>3-6</u>
15FY7	0	15	12.6	3	3-5	<u>7-10</u>
"	5	13	12.6	1	2-3	<u>1-4</u>
15HA6		15	12.6	3	2(3-9) (6-8)	<u>1-4</u>

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
15HB6		15	12.6	3	2 (6-8)	1-5
"		18	12.6	1	(3-9)7	1-5
15KY8		18	12.6	3	2-6-7	3-4
"		13	12.6	1	8-9	1-4
15LE8		23	12.6	2	1-2-8-9	3-4
"		23	12.6	2	6-7-8-9	3-4
15MF8	0	23	12.6	2	4(6-7)8	1-9
"	4	23	12.6	2	1-6	2-5
15MX8		18	12.6	3	2-6-7	3-4
"		13	12.6	1	8-9	1-4
16A		15	6.3	1	1-5-7	2-3
16A5		19	12.6	3	2-7-9	3-4
16A8		23	12.6	2	3-6-7	2-5
"		25	12.6	2	1-9	5-8
16AQ3		17	12.6	3	(1-2-3-6-7-8-9)	4-10
16AK9	8	25	7.5	2	3-4	1-2
"	8	27	7.5	2	5-6	1-2
"	0	30	7.5	2	2-3	6-7
16BQ11	0	25	12.6	2	2-3-4-5	1-6
"	7	25	12.6	2	1-2-3-4	5-6
16BX11	0	22	12.6	2	5-6	1-4
"	0	22	12.6	2	7-8	1-9
"	4	16	12.6	3	2-6-7	1-3
16CB28●	4	25	12.6	3	(2-7)9-10	(1-8)5
		●Cap goes to top of tube.				
16GK6		30	12.6	2	2-7-8	1(3-9)4
16GY5●	4	16	12.6	3	(2-7)9-10	(1-8)5
16HB5	0	16	12.6	3	2-3-7	4-10
16KA6●	4	15	12.6	3	7-9-10	1(2-8)5
16KH8		22	12.6	3	1-2	4-7
"		18	12.6	3	2-3-9	4-7
"		18	12.6	3	6-8-9	4-7
16LD6		20	12.6	4	2(6-8)7	1-4
16LU8	0	16	12.6	3	4(6-7)8	1-9
"	4	12	12.6	1	1-6	2-5
16MY8	0	16	12.6	3	4(6-7)8	1-9
"	4	12	12.6	1	1-6	2-5
16Y9#		24	12.6	2	1-3-4	2-6
" #		25	12.6	2	8-9-10	6-7
17A8		25	12.6	2	1-9	4-8
"		23	12.6	2	2-3-6	4-7
17AB10	0	100	12.6	1	4-5-6-7	1-8
"		Good above 35.				
"	6	15	12.6	3	2-4-8	7-9
17AV5		19	12.6	3	1-5-8	2-3
17AX3	7	21	12.6	3	4	1-8
17AX4		23	12.6	3	5	3-8
17AY3		20	12.6	3	(2-7)	4-9

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
17BB14*		22	12.6	2	(1-2)(6-7)10	(3-8) <u>4</u>
"					●Cap goes to top of tube.	
"					*Must use magnoval adapter.	
17BE3	0	15	12.6	3	4	<u>1-7</u>
17BF11	0	14	12.6	1	3-5-6-7	<u>1-2</u>
"	7	20	12.6	3	2-4-5	<u>3-8</u>
17BH3		20	12.6	3	(2-7)	<u>4-9</u>
17BQ6		16	12.6	3	4-5-10	<u>2-8</u>
17BR3		22	12.6	3	(2-9)	<u>4-10</u>
17BS3		17	12.6	3	(2-7)	<u>4-9</u>
17BW3	7	35	12.6	3	4	<u>8</u>
17BZ3	0	17	12.6	3	4	<u>1-7</u>
17C5		17	12.6	3	(2-5)6-7	<u>1-3</u>
17C9		23	12.6	2	1-7-8	<u>4-6</u>
"		23	12.6	2	1-3	2- <u>4-10</u>
17CA5		18	12.6	3	(2-5)6-7	<u>1-3</u>
17CK3		15	12.6	3	(2-7)	<u>4-9</u>
17CL3		21	12.6	2	(2-7)	<u>4-9</u>
17CT3		24	12.6	2	(2-6)	<u>4-9</u>
17CU5		17	12.6	3	(2-5)6-7	<u>1-3</u>
17D4		20	12.6	3	5	<u>3-7</u>
17DE4		20	12.6	3	5	<u>3-7</u>
17DM4		20	12.6	3	5	<u>3-8</u>
17DQ6		17	12.6	3	4-5-10	<u>2-8</u>
17DW4		23	12.6	2	(2-7)	<u>4-9</u>
17EW8		25	12.6	2	1-2	<u>3-4</u>
"		25	12.6	2	6-7	<u>4-8</u>
17GJ5●		16	12.6	3	(1-7)(2-6)8-10	<u>3-4</u>
17GT5		17	12.6	3	(1-7)(2-6)9	<u>3-4</u>
17GV5●	4	19	12.6	3	(2-7)9-10	(1- <u>8</u>)
17GW6		17	12.6	3	4-5-10	<u>2-8</u>
17HB25*		25	12.6	2	(1-2)(3-8)(6-7)10	<u>4-9</u>
"					●Cap goes to top of tube.	
"					*Must use magnoval adapter.	
17JB6		23	12.6	3	(1-7)(2-6)8-10	<u>3-4</u>
17JF6●		17	12.6	3	3(1-7)(2-6)8-10	<u>3-5</u>
"					●Cap goes to top of tube.	
17JG6		15	12.6	3	(1-7)2-6-9	<u>3-4</u>
17JM6	2	15	12.6	3	5-6-7	<u>3-4</u>
17JN6	5	15	12.6	3	(2-9)3-8-10	<u>6-7</u>
17JQ6		15	12.6	1	1(2-3)6(7-8)	<u>4-9</u>
17JR6		24	12.6	2	(1-7)2-6-9	<u>3-4</u>
17JT6		17	12.6	3	(1-7)2-6-9	<u>3-4</u>
17JZ6	0	15	12.6	3	4(6-7)8	<u>1-9</u>
"	4	25	12.6	3	1-6	<u>2-5</u>

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
17JZ8	0	17	12.6	3	4(6-7)	9-10
"	4	14	12.6	1	1-6	<u>2-3</u>
17KV6		15	12.6	3	1(2-7)9	<u>3-4</u>
17L6		22	19.0	3	3-4-5	<u>2-3</u>
17LD8		25	12.6	2	2-6-7	<u>3-4</u>
"		32	12.6	3	8-9	<u>1-4</u>
17RHH2		25	12.6	2	1-2	<u>3-4</u>
"		25	12.6	2	6-7	<u>4-8</u>
17RK19		25	12.6	2	(2-9)	<u>4-10</u>
17W6		23	12.6	3	3-4-5	<u>2-8</u>
17X10	0	100	12.6	1	4-5-6-7	<u>1-8</u>
"		Good above 35.				
"	6	15	12.6	3	2-4-8	<u>7-9</u>
17Y9#		24	12.6	2	1-3-4	<u>2-6-7</u>
"		36	12.6	2	8-9-10	<u>2-6</u>
"		#Must use decal adapter.				
17Z3		17	12.6	3	1-2-3-6-7-8-9	<u>4-10</u>
18AJ10	2	25	12.6	2	5-8-9	<u>1-4</u>
"	6	25	12.6	2	1-3-4	<u>2-5</u>
18DZ8		14	12.6	1	1-9	<u>4-8</u>
"		18	12.6	3	3-6-7	<u>2-4</u>
18FW6		25	12.6	2	1-2-5-6	<u>4-7</u>
18FX6		25	12.6	2	1-6-7	<u>2-3</u>
"		31	12.6	2	5-6-7	<u>2-3</u>
18FY6		14	12.6	1	1-7	<u>2-4</u>
"		36	12.6	1	5	<u>2-4</u>
"		36	12.6	1	6	<u>2-4</u>
18GB5*		14	12.6	3	(1-2)(6-7)10	(3-8) <u>4</u>
18GV8		26	12.6	2	1-2	<u>3-4</u>
"		27	12.6	2	6-7-9	<u>4-8</u>
18RAL1		25	12.6	2	1(2-3)	<u>4-9</u>
"		30	12.6	2	6-7	<u>4-8</u>
18GD6		25	12.6	2	1-2-5-6	<u>4-7</u>
19A3		26	7.5	2	5	<u>6-7</u>
19AU4		25	12.6	2	5	<u>3-7</u>
19C8		15	12.6	1	2	<u>3-4</u>
"		15	12.6	1	1	<u>4-7</u>
"		15	12.6	1	6	<u>4-7</u>
"		15	12.6	1	9	<u>4-7</u>
19CG3	2	15	12.6	3	(6-10)	<u>1-9</u>
19CL8		14	12.6	3	1-2	<u>3-4</u>
"		13	12.6	3	6-7-9	<u>4-8</u>
19DE3●	7	26	12.6	2	4	<u>6-10</u>
"		●Cap goes to top of tube.				
19DE7		25	12.6	2	1(2-3)	<u>4-9</u>
"		32	12.6	2	6-7	<u>4-8</u>
19DK3		16	12.6	3	(2-7)	<u>4-10</u>
19DQ3	2	16	12.6	3	(6-10)	<u>1-9</u>

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
19EA8		15	12.6	3	2-3-6	<u>4-7</u>
"		14	12.6	3	1-9	<u>4-8</u>
19FL8		28	12.6	2	1-2-6-9	<u>3-4</u>
"		32	12.6	1	7	<u>3-4</u>
"		32	12.6	1	8	<u>3-4</u>
19FX5		23	12.6	2	(2-5)6-7	<u>1-3</u>
19GQ7		20	12.6	3	2	<u>1-4</u>
"		20	12.6	3	6	<u>4-7</u>
"		20	12.6	3	8	<u>4-9</u>
19GV8		23	12.6	2	1-2	<u>3-4</u>
"		15	12.6	3	6-7-9	<u>4-8</u>
19HR6		23	12.6	2	1-2-5-6	<u>3-7</u>
19HS6		11	12.6	1	1	<u>3-7</u>
"		14	12.6	1	2-5-6	<u>3-7</u>
19HV8		14	12.6	1	1-2	<u>3-4</u>
"		13	12.6	1	6-7-9	<u>4-8</u>
19J6		22	12.6	2	1-6	<u>3-7</u>
"		22	12.6	2	2-5	<u>3-7</u>
19JN8		14	12.6	3	1-2	<u>3-4</u>
"		14	12.6	3	6-7-9	<u>4-8</u>
19KF6*		20	12.6	3	(1-7)2-6-9	<u>3-4</u>
19KG8		14	12.6	1	1-2	<u>3-4</u>
"		14	12.6	1	6-7-9	<u>4-8</u>
19MR9		25	12.6	2	1-5-6	<u>2-3-7</u>
19Q9		11	12.6	3	1-2-3	<u>5-10</u>
"		12	12.6	3	8-9	<u>5-7</u>
19U3		19	25	3	9	<u>3-4</u>
19T8		15	12.6	1	2	<u>3-4</u>
"		15	12.6	1	6	<u>4-7</u>
"		15	12.6	1	1	<u>4-7</u>
"		25	12.6	3	8-9	<u>4-7</u>
19W3		19	25	3	9	<u>3-4</u>
19X8		24	12.6	2	2-3	<u>4-6</u>
"		24	12.6	2	7-8-9	<u>1-4-6</u>
19Y3		17	12.6	3	(2-7-9)	<u>3-4</u>
20AQ3		17	12.6	3	(1-2-3-6-7-8-9)	<u>4-10</u>
20AQ8		22	12.6	2	6-7	<u>4-8</u>
"		22	12.6	2	1-2	<u>3-4</u>
20D4		22	6.3	2	1-2-6	<u>3-4</u>
"		30	6.3	3	8-9	<u>4</u>
20EQ7		25	12.6	2	1-2-6-7	<u>3-4</u>
"		15	12.6	1	2-8	<u>3-4</u>
20EW7		15	12.6	3	1(2-3)	<u>5-9</u>
"		25	12.6	3	6-7	<u>5-8</u>
20EZ7		15	12.6	1	5-6	<u>3-4</u>
"		15	12.6	1	7-8	<u>3-9</u>
20LF6●	2	15	12.6	3	5-6-7-10	<u>1-4</u>

●Cap goes to top of tube.

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
21EX6		16	12.6	3	5-8-10	3-7
21GY5●	4	16	12.6	3	(2-7)9-10	(1-8) <u>5</u>
21HA6		15	6.3	3	2(3-9)(6-8)	1- <u>4</u>
21HB5	0	20	12.6	4	2-3-5-7	4- <u>10</u>
21HJ5	0	15	12.6	3	3-4(5-9)	<u>1-2</u>
21JS6●	3	16	12.6	3	(1-6)7-8-10	<u>4-5</u>
"		●Cap goes to top of tube.				
21JV6	7	16	12.6	3	1-5	4-8-9
21JZ6●	3	15	12.6	3	6-7-8-10	<u>4-5</u>
21KA6●	4	15	12.6	3	7-9-10	1(2-8) <u>5</u>
"		●Cap goes to top of tube.				
21KQ6*		20	12.6	2	(1-8)(3-6)10	<u>4-9</u>
21LG6	6	25	12.6	2	2(4-9)10	3- <u>5</u>
21LR8		23	12.6	2	2-6-7	3- <u>4</u>
"		26	12.6	2	8-9	1- <u>4</u>
21LU8	0	20	12.6	3	4(6-7)8	1- <u>9</u>
"	4	12	12.6	1	1-6	<u>2-5</u>
21MY8	0	16	12.6	3	4(6-7)8	1- <u>9</u>
"	4	12	12.6	1	1-6	<u>2-5</u>
22BH3		20	12.6	3	(2-7)	<u>5-9</u>
22BW3	0	20	12.6	3	4	1-7
22DE4		20	12.6	3	5	3-7
22JF6●		15	12.6	3	(1-7)(2-6)8-10	3- <u>4</u>
22JG6		15	12.6	3	(1-7)2-6-9	3- <u>4</u>
22JR6		24	12.6	2	(1-7)2-6-9	3- <u>4</u>
22JU6●		16	12.6	3	(1-7)(2-6)8-10	3- <u>4</u>
22KM6●		16	12.6	3	(1-7)(2-6)8-10	3- <u>4</u>
22KV6		15	25.0	3	1(2-7)9	3- <u>4</u>
23HB3		20	25.0	3	(2-7)	4- <u>9</u>
23JS6	3	14	25.0	3	(1-6)7-8	<u>4-5</u>
23MB6●	5	29	25.0	2	(2-9)(3-8)10	<u>4-7</u>
"		●Cap goes to top of tube.				
23Z9		IMPORTANT - Due to several different filament center tap arrangements, data for this tube has been discontinued. Attempts at testing may cause filament burn out on some tubes. Therefore, we recommend direct substitution as the only safe test.				
"						
"						
"						
"						
24AX4		25	25.0	3	5	3-8
24BF11	0	14	25.0	1	3-5-6-7	1- <u>2</u>
"	7	20	25.0	3	2-4-5	3-8
24GA7	0	16	25.0	3	(2-3)4-7	5- <u>10</u>
"	7	20	25.0	3	5	<u>2-6</u>
24JE6●		18	25.0	3	(1-7)(2-6)10	3-4-8
24JZ8	0	15	25.0	3	(6-7)4-8	1- <u>9</u>
"	4	25	25.0	3	1-6	<u>2-5</u>

TUBE	KEY				UP	DOWN
	AT	SHUNT	FIL.	SEL.		
24LQ6		15	25.0	3	(1-7)(2-6)10	3- <u>4</u>
24LZ6●		26	25.0	2	(1-7)(2-6)9	3- <u>4</u>
"		●Cap goes to top of tube.				
25AV5		19	25.0	3	1-5-8	2-3
25AX4		23	25.0	3	5	<u>3</u> -8
25BB14●*		22	25.0	2	(1-2)(6-7)10	(3-8) <u>4</u>
"		●Cap goes to top of tube.				
"		*Must use magnoval adapter.				
25BQ6		16	25.0	3	4-5-10	2-8
25C5		17	25.0	3	(2-5)6-7	<u>1</u> -3
25CA5		18	25.0	3	(2-5)6-7	1- <u>3</u>
25CD6		15	25.0	3	5-8-10	2- <u>3</u>
25CG3	2	17	25.0	3	(6-10)	<u>1</u> -9
25CK3		17	25.0	3	(2-7)	5-9
25CM3		15	25.0	3	(2-7)	<u>4</u> -9
25CT3		24	25.0	2	(2-6)	<u>4</u> -9
25CU6		16	25.0	3	4-5-10	2-8
25DK3		16	25.0	3	(2-7)	<u>4</u> -10
25DL3●		25	25.0	2	(2-7)	<u>4</u> -10
"		●Cap goes to top of tube.				
25DN6		15	25.0	3	5-8-10	2-3
25DZ8		14	25.0	1	1-9	<u>4</u> -8
"		18	25.0	3	3-6-7	2- <u>4</u>
25E5		15	25.0	3	(1-4)5-10	(3-8) <u>7</u>
25EC6		24	25.0	3	4-8-10	2- <u>3</u>
25EH5		17	25.0	3	<u>2</u> - <u>5</u> -6-7	<u>1</u> -3
25F5		24	25.0	2	(2-5)6-7	1-4
25GB6		20	25.0	3	4-5-10	2-8
25HX5*		25	25.0	2	(1-7)6-9	(2-3) <u>4</u>
"		*Must use magnoval adapter.				
25JQ6		15	25.0	1	1(2-3)6(7-8)	4-9
25JZ8	0	19	25.0	3	4(6-7)8	<u>1</u> -9
"	4	31	25.0	2	1-6	2- <u>5</u>
25KA6●	4	15	25.0	3	7-9-10	1(2-8) <u>5</u>
25L6		17	25.0	3	3-4-5	2-8
25MP20		25	25.0	2	1-5-6-7	2-3
25RK19		25	25.0	2	(2-9)	<u>4</u> -10
25W4		20	25.0	3	5	<u>3</u> -7
25W6		23	25.0	3	3-4-5	2-8
26AQ8		22	25.0	2	1-2	<u>3</u> -4
26DQ5		17	25.0	3	(1-5)(4-7)10	2(3-6) <u>7</u>
26E6		22	25.0	3	3-4-5	2-8
26HU5		15	25.0	2	(1-5)3-10	(2-6) <u>7</u>
26HV5	0	15	25.0	3	2-3-7	4-10
26LW6		16	25.0	3	1-3-5-10	(2-6) <u>7</u>

TUBE	KEY			SEL.	UP	DOWN
	AT	SHUNT	FIL.			
26LX6●	3	17	25.0	3	(1-6)7-8	<u>4-5</u>
"		●Cap goes to top of tube.				
26Z5		25	12.6	3	1	3(4-5)
"		25	12.6	3	6	<u>(4-5)8</u>
27GB5*		14	25.0	3	(1-2)(6-7)10	<u>(3-8)4</u>
27KG6*		20	25.0	4	(1-8)(2-7)(3-6)10	<u>4-9</u>
27LF6●	2	15	25.0	3	5-6-7-10	<u>1-4</u>
"		●Cap goes to top of tube.				
28GB5*		14	25.0	3	(1-2)(6-7)10	<u>(3-8)4</u>
28HA6		15	25.0	3	2(3-9)(6-8)	<u>1-4</u>
28HE6		15	25.0	3	2(3-9)(6-8)	<u>1-4</u>
29GK6		30	25.0	2	2-7-8	1(3-9) <u>4</u>
29KQ6*		25	25.0	2	(1-8)(3-6)10	<u>4-9</u>
"		●Cap goes to top of tube.				
"		*Must use magnoval adapter.				
29LE6*		25	25.0	2	(1-8)(2-7)(3-6)	<u>4-9</u>
"		●Cap goes to top of tube.				
"		*Must use magnoval adapter.				
30A5		15	25.0	3	(2-5)6-7	<u>1-3</u>
30AE3		17	25.0	3	(1-2-3-6-7-8-9)	<u>4-10</u>
30AG11	5	26	32.0	2	2	<u>3-4</u>
"	0	26	32.0	2	3	<u>2-10</u>
"	0	23	32.0	2	7-8	<u>9-10</u>
"	0	23	32.0	2	5-6	<u>4-10</u>
30C18		15	6.3	1	1-9	<u>4(6-8)</u>
"		13	6.3	1	2-3-7	<u>4(6-8)</u>
30HJ5	0	13	25.0	3	3-4(5-9)7	<u>1-2</u>
30JZ6●	3	15	32.0	2	6-7-8-10	<u>4-5</u>
"		●Cap goes to top of tube.				
30KD6●	2	20	25.0	2	5-7-10	<u>3-4</u>
30KG6*		20	25.0	4	(1-8)(2-7)(3-6)10	<u>4-9</u>
30LW6		16	32	3	1-3-5-10	<u>(2-6)7</u>
30MB6●	5	29	32.0	2	(2-9)(3-8)10	<u>4-7</u>
"		●Cap goes to top of tube.				
30MP23		25	25.0	2	(2-5)6-7	<u>1-3</u>
30MP27		25	25.0	2	<u>(2-5)6-7</u>	<u>1-3</u>
30PL12		27	12.6	2	1-9	<u>5-8</u>
"		27	12.6	2	3-6-7	<u>2-5</u>
31AL10	0	25	12.6	2	4-5-8	<u>6-7</u>
"	0	30	12.6	2	2-3	<u>6-7</u>
"	6	26	12.6	2	2-4	<u>3-10</u>
31JS6●	3	14	32.0	3	(1-6)7-8	<u>4-5</u>
31LQ6●		15	32.0	3	(1-7)(2-6)10	<u>3-4</u>
"		●Cap goes to top of tube.				
31LR8		24	25.0	2	2-6-7	<u>3-4</u>
"		26	25.0	2	8-9	<u>1-4</u>
31LZ6●		26	25.0	2	(1-7)(2-6)9	<u>3-4</u>
"		●Cap goes to top of tube.				

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN	
32A8		27	32.0	3	1-9	4-8	
"		27	32.0	2	3-6-7	<u>2-4</u>	
32ET5		19	32.0	3	(2-5)6-7	1- <u>4</u>	
32GA7	0	16	32.0	3	(2-3)4-7	5- <u>10</u>	
"	7	20	32.0	3	5	<u>2-6</u>	
32GD5		24	32.0	3	(2-5)6-7	1- <u>4</u>	
32HQ7	7	27	25.0	2	3-5-10	1- <u>2</u>	
"	0	26	25.0	2	2	<u>4-7</u>	
33GT7	0	18	12.6	3	2	(1-10)4	
"	7	16	12.6	3	(3-5)4-10	<u>2(6-8)</u>	
33GY7	0	18	12.6	3	2	(1-10)4	
"	7	26	12.6	2	(3-4)10	<u>2(6-8)</u>	
33HE7	4	15	12.6	3	6	(3-5)8	
"	7	15	12.6	3	3-5-10	2(6-8)	
33JR6		26	32.0	2	(1-7)2-6-9	<u>3-4</u>	
33JV6	7	16	32.0	3	1-5	4-8- <u>9</u>	
34CD3	0	14	32.0	3	4	1-7	
34CE3	0	14	32.0	3	4	<u>1-7</u>	
34CM3		15	32.0	3	(2-7)	<u>4-9</u>	
34DK3		16	32	3	(2-7)	4- <u>10</u>	
34GD5		20	32.0	3	(2-5)6-7	<u>1-3</u>	
34R3		20	32.0	4	(2-9)	4-10	
35C5		17	32.0	3	(2-5)6-7	<u>1-3</u>	
35DQ6		15	32.0	3	5-8-10	<u>2-3</u>	
35DZ8		15	32.0	1	1-9	<u>4-8</u>	
"		17	32.0	3	3-6-7	<u>2-4</u>	
35EH5		17	32.0	3	2-5-6-7	1- <u>3</u>	
35GL6		18	12.6	3	2-5-7	1(3-4)	
35L6		17	32.0	3	3-4-5	<u>2-8</u>	
35LR6●	3	15	32.0	3	(1-6)7-8	<u>4-5</u>	
35W4		18	12.6	3	5	(3-4)7	
35Y4		18	32.0	3	2	<u>1-4-7</u>	
35Z4		17	32.0	3	5	<u>2-8</u>	
35Z5		18	32.0	3	5	7-8	
36AM3		20	32.0	4	5	<u>3-7</u>	
36KD6		20	32.0	2	5-7-10	<u>3-4</u>	
36LW6		16	32.0	3	1-3-5-10	(2-6)7	
36MC6●		27	32.0	2	(1-7)(2-6)10	3- <u>4</u>	
"		●Cap goes to top of tube.					
38A3		18	32.0	3	(1-6-9)	3-4	
38HE7	4	15	12.6	3	6	(3-5)8	
"	7	15	12.6	3	3-5-10	2(6-8)	
38HK7	4	19	12.6	3	6	(3-5)8	
"	7	19	12.6	3	3-5-10	2(6-8)	
40FR5		20	32.0	3	(2-5)6-7	1-4	
40KD6●	2	20	32.0	2	5-7-10	<u>3-4</u>	
40KG6*		20	32.0	4	(1-8)(2-7)(3-6)10	<u>4-9</u>	

TUBE	KEY		FIL.	SEL.	UP	DOWN
	AT	SHUNT				
40SUA		39	2.0	2	3-4-C	<u>7</u>
42EC4*		18	32.0	3	(2-7-8)	<u>4-10</u>
42KN6●	2	13	12.6	3	5-6-7-10	<u>4-9</u>
45B5		16	50.0	3	(1-2)(7-8)9	<u>3-5</u>
45Z5		18	50.0	3	5	<u>(2-3)8</u>
50B5		19	50.0	3	<u>1-5-6-7</u>	<u>2-3</u>
50BM8		27	50.0	2	1-9	<u>4-8</u>
"		24	50.0	2	3-6-7	<u>2-4</u>
50C5		17	50.0	3	(2-5)6-7	<u>1-3</u>
50CA5		18	50.0	3	(2-5)6-7	<u>1-3</u>
50DC4		19	25.0	3	5	<u>3-6-7</u>
50EH5		14	50.0	3	(2-5)6-7	<u>1-3</u>
50FE5		18	50.0	3	3-4-5	<u>1-8</u>
50FK5		17	50.0	3	(2-5)6-7	<u>1-3</u>
50FY8		16	50.0	3	3-6-7	<u>2-4</u>
"		15	50.0	1	1-9	<u>4-8</u>
50GY7	0	19	25.0	3	2	<u>(1-10)4</u>
"	7	20	25.0	2	(3-4)10	<u>2(6-8)</u>
50HC6		15	25.0	3	2-5-7	<u>1(3-4)</u>
50HK6		17	25.0	3	2-5-7	<u>1(3-4)</u>
50HN5		15	50.0	3	(1-2)7-9	<u>3-4</u>
50JY6		16	50.0	3	(1-4)5-6-10	<u>2-8</u>
50L6		17	50.0	3	3-4-5	<u>2-8</u>
50Y7		21	50.0	3	5	<u>6-7-8</u>
"		21	50.0	3	3	<u>4-6-7</u>
53HK7	4	19	25.0	3	6	<u>(3-5)8</u>
"	7	19	25.0	3	3-5-10	<u>2(6-8)</u>
58HE7	4	15	25.0	3	6	<u>(3-5)8</u>
"	7	15	25.0	3	3-5-10	<u>2(6-8)</u>
60FX5		21	50.0	2	(2-5)6-7	<u>1-3</u>
60HL5		15	50.0	3	(1-2)7-9	<u>3-4</u>
117L7/M7		20	110.0	3	6	<u>1-2</u>
"		24	110.0	3	3-4-5	<u>2-8</u>
163PEN		19	12.6	3	2-7-9	<u>3-4</u>
396A		23	6.3	2	3-4	<u>1-2</u>
"		23	6.3	2	6-7	<u>1-8</u>
403B		26	6.3	2	1-5-6	<u>(2-7)3</u>
417		15	6.3	3	1(4-5-7-8)	<u>3-6</u>
807		20	6.3	4	2-3-10	<u>1-4</u>
866		26	2.5	3	10	<u>4</u>
TJ880		25	6.3	2	2(3-9)7-8	<u>(1-6)5</u>
1280		27	12.6	3	2-3-6	<u>1-4-7</u>
1611		25	6.3	2	3-4-5	<u>2-8</u>
1612		26	6.3	3	3-4-10	<u>7</u>
1628		30	12.6	2	3-5	<u>2-8</u>

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
1629		36	12.6	2	3-5	<u>2-8</u>
"		0	12.6	4	4	<u>2</u>
"		Eye open.				
1629		0	12.6	4	3-4	<u>2</u>
"		Eye closed.				
2050		20	6.3	4	3-5-6	<u>2-8</u>
5610		22	6.3	2	(1-5)6	<u>2-3</u>
5641		18	6.3	3	2-4-8	<u>3-5</u>
5642		100	0.75	1	10	<u>1</u>
5654		27	6.3	2	1-5-6	(2-7) <u>3</u>
5663		18	6.3	3	1-5-7	<u>2-3</u>
5670		25	6.3	3	6-7	<u>1-8</u>
"		25	6.3	2	3-4	<u>1-2</u>
5687		26	6.3	3	1-2	3(<u>4-5</u>)
"		26	6.3	3	7-9	(<u>4-5</u>)6
5692		29	6.3	2	4-5	<u>6-7</u>
"		29	6.3	2	1-2	<u>3-7</u>
5696		22	6.3	4	1(5-7)6	<u>2-3</u>
5725		25	6.3	2	1-5-6-7	<u>2-3</u>
5749		23	6.3	2	1-5-6	<u>3-7</u>
5751		30	6.3	2	1-2	3(<u>4-5</u>)
"		30	6.3	2	6-7	(<u>4-5</u>)8
CK5755		35	6.3	2	1-3	<u>2-9</u>
"		33	6.3	2	6-8	<u>7-9</u>
5763		20	6.3	3	1-3-6-8-9	<u>4-7</u>
5823		35	0.0	4	1	<u>3-7</u>
5842		15	6.3	3	1(4-5-7-8)	<u>3-6</u>
5879		15	6.3	1	1-7-8-9	<u>3-4</u>
5881		21	6.3	3	3-4-5	<u>2-8</u>
5915		26	6.3	2	1-5-6-7	<u>2-3</u>
5987		27	6.3	2	(2-4-8)1	<u>3-5</u>
6005		22	6.3	3	(1-7)5-6	<u>2-4</u>
6084		26	6.3	3	1-6-9	<u>3-4</u>
6085		14	6.3	1	1-2	3(<u>4-5</u>)
"		14	6.3	1	6-7	(<u>4-5</u>)8
6146		25	6.3	2	3-5-10	(1- <u>4-6</u>)2
6189		25	6.3	2	6-7	<u>4-5-8</u>
"		25	6.3	2	1-2	<u>3-4-5</u>
6203		30	6.3	3	1	<u>4-7</u>
"		30	6.3	3	9	<u>4-7</u>
6211		22	6.3	2	1-2	3(<u>4-5</u>)
"		22	6.3	2	6-7	(<u>4-5</u>)8
6265		25	6.3	2	1-5-6	<u>2-3-7</u>
6267		13	6.3	1	1-6-9	<u>3-4-8</u>
CK6293		28	6.3	2	3-5	(<u>1-4-6</u>)2
6360		21	6.3	2	3-7-8	<u>2-9</u>
"		21	6.3	2	1-6-7	<u>2-9</u>

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6463		18	6.3	3	1-3	2(4-5)
"		18	6.3	3	6-8	(4-5)7
6550		19	6.3	3	3-4-5	1-7-8
PL6574		32	6.3	2	3-5-6	1-8
6660		24	6.3	2	1-5-6	3-7
6662		26	6.3	2	1-5-6	2-3-7
6686		25	6.3	2	2-7-8-9	3-4
6688		22	6.3	2	2-7-8-9	1-3-4
6689		25	6.3	2	1-2-6	3-4
6829		25	6.3	2	1-2	3(4-5)
"		25	6.3	2	6-7	(4-5)8
6883		19	12.6	3	3-5-10	1-2-4-6
6973		24	6.3	3	1-3-6-8-9	4-7
7025		14	6.3	1	1-2	3(4-5)
"		14	6.3	1	6-7	(4-5)8
7027		20	6.3	3	(1-4)3(5-6)	2-8
7054		15	12.6	3	2-7-8	1(3-9)4
7119		14	6.3	3	1-2	3(4-5)
"		14	6.3	3	7-9	(4-5)6
7189		16	6.3	3	1-2-6-7-8-9	3-4
7199		14	6.3	1	2-3-7	4-6
"		14	6.3	1	1-9	4-8
7247		15	6.3	1	1-2	3(4-5)
"		15	6.3	1	6-7	(4-5)8
7308		25	6.3	2	1-2	3-4
"		25	6.3	2	6-7	4-8
7355		20	6.3	3	3-6-9	2-5
7408		26	6.3	3	3-4-5	7-8
7543		13	6.3	1	1-2-5-6	3-7
7551		20	12.6	3	2(3-8)6	(1-9)4
7558		20	6.3	3	2(3-8)6	(1-9)4
7576		24	6.3	2	(2-4-5-7)3	1-6
7586		19	12.6	2	2-4	5-8
7591		15	6.3	3	3(4-8)6	2-5
7643		26	6.3	2	1-9	4-8
"		25	6.3	2	2-3-6	4-7
7695		16	50.0	4	1-6-9	4-7
7751		24	6.3	2	(1-4)3-5	2-8
7788		24	6.3	2	2(6-9)7-8	(1-3)4
7868		20	6.3	4	(1-7)(2-6)9	3-5
7898		23	6.3	2	1-2	3-9
"		23	6.3	2	6-7	8-9
7984	4	16	12.6	3	1-2(7-8-9)	3(6-10)
7994		24	6.3	2	(2-4-5-7)3	1-6
8032		54	12.6	2	3-5-10	(1-4-6)2
8068		20	6.3	3	5-8-10	2-3
8070		26	6.3	2	2-7	(1-8)3

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
8071		24	6.3	2	(1-8) (2-7)	<u>3</u> (4-5)
8102		15	12.6	3	6-7-9	<u>4</u> -8
"		15	12.6	3	1-3	<u>2</u> -4
8106		15	12.6	3	1 (3-8) 7	(2-6-9) <u>4</u>
8156	4	19	12.6	3	1-2 (7-8-9)	<u>3</u> (6-10)
8185		23	6.3	2	(2-4-5-7) 3	<u>1</u> -6
8186		23	25.0	2	(2-4-5-7) 3	<u>1</u> -6
8210		26	6.3	2	5-7-10	(1-2) <u>3</u> (4-8)
8254		23	6.3	2	8-10	(1-5) <u>3</u>
8278*		18	6.3	3	(1-8) (3-7) 9	(2-6) <u>4</u>
8319		26	6.3	2	2-7	(1-8) <u>3</u>
8552		22	12.6	3	3-5	<u>1</u> -2- <u>4</u> - <u>6</u>
8908		25	6.3	2	(1-5) (2-6) 3-10	<u>4</u> -7
8950	4	18	12.6	3	(2-7) 9-10	<u>3</u> - <u>6</u>
9002		26	6.3	2	(1-5) 6	(2-7) <u>3</u>
9003		30	6.3	2	1-5-6	(2-7) <u>3</u>
9006		19	6.3	1	(1-5)	(2-7) <u>3</u>
<u>FOREIGN</u>						
A1834		18	6.3	3	1-2	3-8
"		18	6.3	3	4-5	6-8
AA91E		25	6.3	2	2	3-5
"		25	6.3	2	7	<u>1</u> -3
ABC91		40	12.6	2	3-4-10	2-8
AR18		15	6.3	1	3	<u>2</u> -8
"		25	6.3	1	4	<u>2</u> -8
"		25	6.3	1	5	<u>2</u> -8
DF33		16	1.4	1	3-4-10	<u>2</u>
DF92		37	1.4	2	2-3-6	1-5
DF904		35	1.4	2	2-3-6	<u>1</u> -5
DL91		30	1.4	2	2-3-4-6	<u>1</u> -5
DL96		13	1.4	1	<u>2</u> -3-6	<u>1</u> -7
DY87		60	1.4	4	10	<u>1</u> -3-4-6-7-9
E55L*		17	6.3	3	1-3-8	2-4-6-7-9
*Must use magnoval adapter.						
E80CC		14	6.3	1	1-2	3 (4-5)
"		14	6.3	1	6-7	(4-5) <u>8</u>
E80F		26	6.3	3	1-6-9	<u>3</u> -4
E81L		25	6.3	2	2-7-8-9	<u>3</u> -4
E82CC		25	6.3	2	1-2	3 (4-5)
"		25	6.3	2	6-7	(4-5) <u>8</u>
E83CC		14	6.3	1	1-2	3 (4-5)
"		14	6.3	1	6-7	(4-5) <u>8</u>
E83F		25	6.3	2	1-2-6	<u>3</u> -4
E84L		19	6.3	3	1-2-7-9	<u>3</u> -4
E90Z		32	6.3	3	1	<u>3</u> -7
"		32	6.3	3	6	<u>3</u> -7

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
E182CC		25	6.3	2	1-2	3-8
"		25	6.3	2	7-9	6-8
E188CC		25	6.3	2	1-2	3-4
"		25	6.3	2	6-7	4-8
E235L		24	6.3	2	(1-4)3-5	2-8
E810F		24	6.3	2	2(6-9)7-8	(1-3)4
E902		32	6.3	3	1	3-7
"		32	6.3	3	6	3-7
EAF801		26	6.3	2	1-2-6	3-4
"		56	6.3	2	8	3-4
EC86		22	6.3	2	(1-9)(2-6-8)	4(3-7)
EC88		25	6.3	2	(1-3-6-7-9)8	2-4
EC900		22	6.3	2	1-5	(2-7)3
ECC35		25	6.3	2	4-6-8	3-5-7
ECC86		16	6.3	1	1-2	3-4
"		15	6.3	1	6-7	4-8
ECC89		25	6.3	2	2-3	1-4
"		25	6.3	2	6-9	4(7-8)
ECC808		30	6.3	2	1-3	2-4
"		30	6.3	2	7-9	4-8
ECF200#		24	6.3	2	3-4-7	2-6
"		#Must use decal adapter.				
"		25	6.3	2	9-10	1-6
"		#Must use decal adapter.				
ECF201#		22	6.3	2	3-4-7-8	2-6
"		#Must use decal adapter.				
"		26	6.3	2	9-10	1-6
"		#Must use decal adapter.				
ECF801		18	6.3	3	8-9	(1-3)4
"		21	6.3	2	2-6-7	(1-3)4
ECF802		22	6.3	2	2-3-6	4-7
"		23	6.3	2	1-9	4-8
ECH84		12	6.3	1	8-9	3-4
"		12	6.3	1	2-6-8	3-4
ECH200#		30	6.3	2	2-3-4	1-6
"		#Must use decal adapter.				
"		30	6.3	2	8-10	6-9
"		#Must use decal adapter.				
ECL85		23	6.3	2	1-2	3-4
"		15	6.3	3	6-7-9	4-8
ECL86		14	6.3	1	1-9	2-4
"		19	6.3	3	3-6-8	4-7
ECLL800		22	6.3	3	1-2	4-7
"		18	6.3	3	2-3-9	4-7
"		18	6.3	3	6-8-9	4-7
ED500●		16	6.3	1	8-10	(1-2-3-6-7-9)4
"		●Cap goes to top of tube.				
"		*Must use magnoval adapter.				

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
EF37A		36	6.3	2	3-4-10	7-8
EF95		26	6.3	2	1-5-6	(2-7)3
EF804S		29	6.3	2	1-7-8-9	3-5
EFL200#		24	6.3	2	1-3-4	2-6
"		#Must use decal adapter.				
"		25	6.3	2	8-9-10	6-7
"		#Must use decal adapter.				
EL32		20	6.3	3	3-4-5	2-8
EL82		25	6.3	2	2-7-9	3-4
EL500*		16	6.3	1	8-10 (1-2-3-6-7-9)4	
"		●Cap goes to top of tube.				
"		*Must use magnoval adapter.				
EL503*		18	6.3	3	(1-8)(3-7)9	(2-6)4
"		*Must use magnoval adapter.				
EL504*		14	6.3	3	(1-2)(6-7)10	(3-8)4
"		●Cap goes to top of tube.				
"		*Must use magnoval adapter.				
EL505*		20	6.3	4	(1-8)(2-7)(3-6)10	4-9
EL508		17	6.3	3	4-5-10	2-8
ELL80		22	6.3	2	1-2-3	4-7
"		22	6.3	2	6-8-9	4-7
EM87		15	6.3	1	1(2-6-8)	3-4
"		15	6.3	1	7	3-4
EN32		32	6.3	2	3-5-6	1-8
EY80		17	6.3	3	9	3-4
EY500*		21	6.3	2	(2-7-8)9	4-10
"		●Cap goes to top of tube.				
"		*Must use magnoval adapter.				
EZ35		32	6.3	3	3	2-8
"		32	6.3	3	5	2-8
GY501*		100	3.3	1	10	(1-5-9)
"		Good above 35.				
"		*Must use magnoval adapter.				
GZ32		25	5.0	3	6	2
"		25	5.0	3	4	2
GZ34		20	5.0	4	4	8
"		20	5.0	4	6	8
HCH81		28	12.6	2	8-9	3-5
"		26	12.6	2	2-6-7	3-5
HL94		15	25.0	3	(2-5)6-7	1-3
LC900		22	2.5	2	1-5	(2-7)3
LCF80		22	6.3	2	2-3-6	4-7
"		24	6.3	2	1-9	4-8
LCF200#		24	5.0	2	3-4-7	2-6
"		#Must use decal adapter.				
"		25	5.0	2	9-10	1-6
"		#Must use decal adapter.				

TUBE	KEY			UP	DOWN
	AT	SHUNT	FIL. SEL.		
LCF201#	22	5.0	2	3-4-7-8	2- <u>6</u>
"	#Must use decal adapter.				
"	26	5.0	2	9-10	1- <u>6</u>
"	#Must use decal adapter.				
LCF801	18	5.0	3	8-9	(1-3) <u>4</u>
"	21	5.0	2	2-6-7	(1-3) <u>4</u>
LCF802	22	6.3	2	2-3-6	<u>4-7</u>
"	23	6.3	2	1-9	<u>4-8</u>
LCH200#	30	5.0	2	2-3-4	1- <u>6</u>
"	#Must use decal adapter.				
"	30	5.0	2	8-10	<u>6-9</u>
"	#Must use decal adapter.				
LCL84	13	7.5	1	1-2	3- <u>4</u>
"	13	7.5	1	6-8-9	<u>4-7</u>
LCL85	23	7.5	2	1-2	3- <u>4</u>
"	15	7.5	3	6-7-9	<u>4-8</u>
LF183	22	3.3	2	2-7-8	(1- <u>3</u>) <u>4</u>
LF184	22	3.3	2	2-7-8	(1- <u>3</u>) <u>4</u>
LFL200#	24	12.6	2	1-3-4	2- <u>6</u>
"	#Must use decal adapter.				
"	25	12.6	2	8-9-10	<u>6-7</u>
"	#Must use decal adapter.				
LL86	21	7.5	2	(1-2)(6-9)(7-8)	3- <u>4</u>
LL500*	14	12.6	3	(1-2)(6-7)10	(3-8) <u>4</u>
"	●Cap goes to top of tube.				
"	*Must use magnoval adapter.				
LL509*	20	25.0	4	(1-8)(2-7)(3-6)10	4- <u>9</u>
"	*Must use magnoval adapter.				
LL521*	20	19.0	2	(1-8)(3-6)10	4- <u>9</u>
"	*Must use magnoval adapter.				
LL802	20	7.5	4	2(6-8)7	1- <u>4</u>
N22LL*	20	12.6	3	(1-7)2-6-9	3- <u>4</u>
"	*Must use magnoval adapter.				
PC86	25	3.3	2	(1-9)(2-6-8)	(3-7) <u>4</u>
PC900	22	3.3	2	1-5	(2-7) <u>3</u>
PCC88	17	7.5	3	1-2	3- <u>5</u>
"	17	7.5	3	6-7	<u>5-8</u>
PCC89	25	6.3	2	2-3	<u>1-4</u>
"	25	6.3	2	6-9	<u>4-7-8</u>
PCF82	20	7.5	2	2-3-6	<u>4-7</u>
"	23	7.5	2	1-9	<u>4-8</u>
PCF86	21	7.5	2	2-8-9	(1- <u>3</u>) <u>4</u>
"	23	7.5	2	6-7	(1- <u>3</u>) <u>4</u>
PCF200#	24	7.5	2	3-4-7	2- <u>6</u>
"	#Must use decal adapter.				
"	25	7.5	2	9-10	1- <u>6</u>
"	#Must use decal adapter.				

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
PCF201#	22	7.5	2		3-4-7-8	2- <u>6</u>
"	#Must use decal adapter.					
"	26	7.5	2		9-10	1- <u>6</u>
"	#Must use decal adapter.					
PCF801	18	7.5	3		8-9	(1-3) <u>4</u>
"	21	7.5	2		2-6-7	(1-3) <u>4</u>
PCF802	25	7.5	2		1-9	<u>4</u> -8
"	24	7.5	2		2-3-6	<u>4</u> -7
PCF805	15	6.3	1		1-9	<u>4</u> (6-8)
"	13	6.3	1		2-3-7	<u>4</u> (6-8)
PCH200#	30	7.5	2		2-3-4	1- <u>6</u>
"	#Must use decal adapter.					
"	30	7.5	2		8-10	<u>6</u> -9
"	#Must use decal adapter.					
PCL85	27	12.6	2		6-7-9	<u>4</u> -8
PD500*	16	7.5	1		8-10 (1-2-3-6-7-9)	<u>4</u>
"	#Must use magnoval adapter.					
PFL200#	24	12.6	2		1-3-4	2- <u>6</u>
"	#Must use decal adapter.					
"	25	12.6	2		8-9-10	<u>6</u> -7
"	#Must use decal adapter.					
PL500*	14	25.0	3		(1-2)(6-7)10	(3-8) <u>4</u>
"	#Must use magnoval adapter.					
PL504●	14	25.0	3		(1-2)(6-7)10	(3-8) <u>4</u>
"	●Cap goes to top of tube.					
"	#Must use magnoval adapter.					
PL521●	25	25.0	2		(1-8)(3-6)10	<u>4</u> -9
"	●Cap goes to top of tube.					
"	#Must use magnoval adapter.					
PY82	17	12.6	3		(2-7-9)	3- <u>4</u>
PY500*	18	32.0	3		(2-7-8)	<u>4</u> -10
"	#Must use magnoval adapter.					
UBF89	28	12.6	2		1-2-6-9	3- <u>4</u>
"	32	12.6	1		7	3- <u>4</u>
"	32	12.6	1		8	3- <u>4</u>
UCC85	22	25.0	2		1-2	3- <u>4</u>
UY85	18	32.0	3		(1-6-9)	3- <u>4</u>
XC95	13	2.0	1		2-5	(1-7) <u>3</u>
XC97	15	2.5	3		2-5	1-4- <u>7</u>
XC900	20	2.5	2		1-5	(<u>2</u> -7) <u>3</u>
XCC189	21	3.3	2		1-2	3- <u>4</u>
"	21	3.3	2		6-7	<u>4</u> -8
XCF80	25	3.3	2		1-9	<u>4</u> -8
"	25	3.3	2		2-3-6	<u>4</u> -7
XCF801	18	3.3	3		8-9	(1- <u>3</u>) <u>4</u>
"	21	3.3	2		2-6-7	(1-3) <u>4</u>
XCL85	23	7.5	2		1-2	3- <u>4</u>
"	15	7.5	3		6-7-9	<u>4</u> -8
XF183	22	3.3	2		2-7-8	(1- <u>3</u>) <u>4</u>

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
XF184		22	3.3	2	2-7-8	(1-3) <u>4</u>
XL84		18	7.5	3	(1-2) (6-9) (7-8)	3- <u>4</u>
XL86		21	7.5	2	(1-2) (6-9) (7-8)	3- <u>4</u>
XL500*		14	12.6	3	(1-2) (6-7)10	(3-8) <u>4</u>
"					●Cap goes to top of tube.	
"					*Must use magnoval adapter.	
XL504*		14	12.6	3	(1-2) (6-7)10	(3-8) <u>4</u>
"					●Cap goes to top of tube.	
"					*Must use magnoval adapter.	
YCC189		20	5.0	3	6-7	5-8
"		25	5.0	3	1-2	<u>3</u> -5
YL1371		22	12.6	3	3-5	<u>1-2-4-6</u>

CAUTION

In certain tubes, elements such as a cathode, grid or plate may have more than one internal connection to the tube base.

These tubes may show shorts when tested even though they are not actually shorted. To avoid erroneous short tests for such tubes, use the following procedure:

1. Filament voltage switch must be set to 0 volt position before making any short tests.
 2. To avoid tube damage, adjust all settings **before** inserting the tube into its socket.
 3. Levers enclosed in brackets must be moved together as one.
 4. ONLY levers **underlined** will cause tube short test to light.
 5. Levers **underlined** and in brackets must be moved together, as one, and will show short in the opposite position.
 6. In the case of tubes having more than one section and therefore having more than one test, **the tube must be removed** from the socket and all settings made before reinserting the tube for the next test.
- * MAGNOVAL BASE—"**MUST USE MAGNOVAL ADAPTER**" NOT NECESSARY ON 610A ADAPTER.
 - # 10 PIN DECAL BASE—REQUIRES THE USE OF DECAL ADAPTER. Not necessary with 610A adapter.
 - Cap goes to top of tube.

A number within brackets (after tube type number), such as [3] refers to the particular key used in positioning the compactron tube on the 610 or 610A adapter. There will be no pin on the tube inserted in the corresponding socket pin number.

On early models meter scale may read 0-1000. In this case GOOD above 20 will read 200 on Meter Scale, 30 will read 300.

FOR 10 PIN MINIATURE, 12 PIN COMPACTRONS, NOVAR, DECAL, MAGNOVAL, 2 PIN RECTIFIER AND NUVIDOR TYPE TUBES USE MODEL 610A ADAPTER.

CAUTION**CAUTION****CAUTION**