

UNIVERSITY VALVE TESTER - ELECTROLYTIC CAPACITORS			
TYPE 4mfd 250V & UP	RANGE SEL. CV500	ELEC. RANGE FOR LEAK 16	FOR IMP
TYPE 5mfd 40V	RANGE SEL. CV 25	ELEC. RANGE FOR LEAK 30	FOR IMP 93
TYPE 5mfd 125V	RANGE SEL. CV 50	ELEC. RANGE FOR LEAK 35	FOR IMP 93
TYPE 8mfd 250V & UP	RANGE SEL. CV500	ELEC. RANGE FOR LEAK 11	FOR IMP 80
TYPE 10mfd 40V	RANGE SEL. CV 25	ELEC. RANGE FOR LEAK 20	FOR IMP 76
TYPE 10mfd 75V	RANGE SEL. CV 50	ELEC. RANGE FOR LEAK 24	FOR IMP 76
TYPE 10mfd 100V	RANGE SEL. CV 50	ELEC. RANGE FOR LEAK 24	FOR IMP 76
TYPE 12mfd 250V & UP	RANGE SEL. CV500	ELEC. RANGE FOR LEAK 9	FOR IMP 55
TYPE 16mfd 250V & UP	RANGE SEL. CV500	ELEC. RANGE FOR LEAK 8	FOR IMP 42
TYPE 20mfd 150V	RANGE SEL. CV150	ELEC. RANGE FOR LEAK 10	FOR IMP 36
TYPE 20mfd 200V	RANGE SEL. CV150	ELEC. RANGE FOR LEAK 10	FOR IMP 36
TYPE 24mfd 250V & UP	RANGE SEL. CV500	ELEC. RANGE FOR LEAK 7	FOR IMP 30
TYPE 25mfd 40V	RANGE SEL. CV 25	ELEC. RANGE FOR LEAK 12	FOR IMP 28
TYPE 32mfd 250V & UP	RANGE SEL. CV500	ELEC. RANGE FOR LEAK 6.5	FOR IMP 25
TYPE 35mfd 250V	RANGE SEL. CV500	ELEC. RANGE FOR LEAK 6.5	FOR IMP 22
TYPE 40mfd 200V	RANGE SEL. CV150	ELEC. RANGE FOR LEAK 8	FOR IMP 20
TYPE 50mfd 40V	RANGE SEL. CV 25	ELEC. RANGE FOR LEAK 10	FOR IMP 17
TYPE 50mfd 200V	RANGE SEL. CV150	ELEC. RANGE FOR LEAK 7.5	FOR IMP 17
TYPE 100mfd 40V	RANGE SEL. CV 25	ELEC. RANGE FOR LEAK 9	FOR IMP 10
TYPE 100mfd 12V	RANGE SEL. CV 6	ELEC. RANGE FOR LEAK 16	FOR IMP 10
TYPE 250mfd 12V	RANGE SEL. CV 6	ELEC. RANGE FOR LEAK 24	FOR IMP 7
TYPE 400mfd 12V	RANGE SEL. CV 6	ELEC. RANGE FOR LEAK 19	FOR IMP 5
TYPE 500mfd 12V	RANGE SEL. CV 6	ELEC. RANGE FOR LEAK 18	FOR IMP 4

University Tester Data - Valves

UNIVERSITY VALVE TESTER - VALVES									
Valve		A	B	Filament	C	D	E	Equiv.	Use
1A4P		2	1	4	9	36	2		
1A5G		1	2	7	5	40	2		
1A6		2	1	6	4	44	2		
1A7G		1	2	7	5	40	2		
1B4P		2	1	4	9	38	2		
1B5	t	2	1	6	4	48	2		
1B5	d1	2	1	6	4	100	1		
1B5	d2	2	1	6	3	100	1		
1C4		2	1	4	9	31	2		
1C5G		1	2	7	5	30	2		
1C6		2	1	6	4	40	2		
1C7G		2	2	7	5	40	2		
1D4		2	1	5	3	28	2		
1D5GP		2	2	7	9	36	2		
1D7G		2	2	7	5	44	2		
1D8GT	P	1	2	7	5	35	2		
1D8GT	t	1	2	7	9	41	2		
1D8GT	d	1	2	7	8	63	1		
1E5GP		2	2	7	9	36	2		
1E7G	p1	2	2	7	4	32	2		
1E7G	p2	2	2	7	5	32	2		
1F4		2	1	5	3	30	2		
1F5G		2	2	7	5	30	2		
1F6	p	2	1	6	9	42	2		
1F6	d1	2	1	6	5	100	1		
1F6	d2	2	1	6	4	100	1		
1F7GV	p	2	2	7	9	46	2		
1F7GV	d1	2	2	7	5	100	1		
1F7GV	d2	2	2	7	4	100	1		
1G4G		1	2	7	5	40	2		
1G5G		2	2	7	5	29	2		
1G6G	t1	1	2	7	4	40	2		
1G6G	t2	1	2	7	5	40	2		
1H4G		2	2	7	5	40	2		
1H5G	t	1	2	7	9	35	2		
1H5G	d	1	2	7	5	70	1		
1H6G	t	2	2	7	6	48	2		
1H6G	d1	2	2	7	5	100	1		
1H6G	d2	2	2	7	4	100	1		
1J5G		2	2	7	5		2		
1J6G	t1	2	2	7	4	35	2		
1J6G	t2	2	2	7	5	35	2		
1K4		2	1	4	9	31	2		
1K5G		2	2	7	9	32	2		
1K6	p	2	1	6	9	35	2		
1K6	d1	2	1	6	4	84	1		
1K6	d2	2	1	6	3	84	1		
1K7G	p	2	2	7	9	35	2		
1K7G	d1	2	2	7	4	90	1		
1K7G	d2	2	2	7	5	90	1		
1L4		1	7	1&5	6	31	2		
1L5G		2	2	7	5	28	2		
1M5G		2	2	7	9	32	2		

University Tester Data - Valves

1N5G		1	2	7	9	33	2		
1N6G	p	1	2	7	5		2		
1N6G	d	1	2	6	6		1		
1P5G		1	2	7	9	33	2		
1Q5GT		1	2	7	5	29	2		
1R5		1	7	1&5	4	29	2		
1S4		1	7	1&5, 2&6	3	27	2		
1S5	p	1	1	7	6	34	2		
1S5	d	1	1	7	3	100	1		
1T4		1	7	1&5	6	31	2		
1U5	p	1	7	1	6	34	2		
1U5	d	1	7	1	4	100	1		
1V		7	1	4	2	10	3		
1W4		1	7	1&5	6	31	2		
2A3		3	1	4	3	12	3		
2A5		3	1	6	4	16	3		
2A6	t	3	1	6	9	31	2		
2A6	d1	3	1	6	4	70	1		
2A6	d2	3	1	6	3	70	1		
2A7		3	1	7	5	32	2		
2B7	p	3	1	7	9	40	2		
2B7	d1	3	1	7	5	54	1		
2B7	d2	3	1	7	4	54	1		
2E5		3	1	6	3	46	2		
3A4		1	5	1&7, 2&6	4	28	2		
3A8GT	t	1	1	2&7	5		2		
3A8GT	p	1	1	2&7	9		2		
3Q5GT		1	8	2&7	4	29	2		
3V4		1	5	1&7	6	29	2		
3Q4		1	5	1&7, 2&6	3	29	2		
3S4		1	5	1&7, 2&6	3	27	2		
5T4	a1	6	2	8	4	11	3		
5T4	a2	6	2	8	6	11	3		
5U4G	a1	6	2	8	4	11	3		
5U4G	a2	6	2	8	6	11	3		
5V4G	a1	6	2	8	4	9.5	3		
5V4G	a2	6	2	8	6	9.5	3		
5W4	a1	6	2	8	4		3		
5W4	a2	6	2	8	6		3		
5X4G	a1	6	7	8	3	11	3		
5X4G	a2	6	7	8	5	11	3		
5Y3G	a1	6	2	8	4	16	3		
5Y3G	a2	6	2	8	6	16	3		
5Y4G	a1	6	7	8	3	15	3		
5Y4G	a2	6	7	8	5	15	3		
5Z3	a1	6	1	4	2	11	3		
5Z3	a2	6	1	4	3	11	3		
5Z4-G	a1	6	2	8	4	10	3		
5Z4-G	a2	6	2	8	6	10	3		
5R4GY	d1	6	2	8	4	11	3		
5R4GY	d2	6	2	8	6	11	3		
6A3		7	1	4	3	12	3		
6A4		7	1	5	3		3		
6A6	t1	7	1	7	3	13	3		
6A6	t2	7	1	7	5	13	3		
6A7		7	1	7	5	32	2		

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6A8G		7	2	7	5	32	2		
6AB5		7	1	6	3	45	2		
6AB6G		7	2	7	5		3		
6AB7		7	2	7	4		2		
6AC5G		7	2	7	5		2		
6AC7		7	2	7	4	30	2		
6AD7	t	7	2	7	1		2		
6AD7	p	7	2	7	5		2		
6AE5GT		7	2	7	5		2		
6AE6G		7	2	7	5		2		
6AE7G	g1	7	2	7	4		2		
6AE7G	g2	7	2	7	6		2		
6AG6G		7	2	7	5		3		
6AG7		7	2	7	4		3		
6AE8	h	7	4	5	2	29	2		
6AE8	t	7	4	5	2	29	2		
6AG5		7	3	4, 2&7	1	25	2		
6AL5	d1	7	3	4	7	14	1		
6AL5	d2	7	3	4	2	14	1		
6AM5		7	3	4	1		3		
6AN7	h	7	4	5, 3&6	2	24	2		
6AN7	t	7	4	5, 3&6	9	26	2		
6AR7GT	p	7	1	8	9	30	2		
6AR7GT	d1	7	1	8	5	100	1		
6AR7GT	d2	7	1	8	6	100	1		
6AU6		7	3	4	1	25	2		
6AV6	t	7	3	4	1	30	2		
6AV6	d1	7	3	4	6	100	1		
6AV6	d2	7	3	4	5	100	1		
6AQ5		7	3	4, 1&7	6	90	3		
6AK5		7	3	4, 2&7	1	27	2		
6BA6		7	3	4	1	26	2		
6BE6		7	3	4	1	26	2		
6BE7		7	4	5	7		2		
6BJ5		7	3	4	1		3		
6BD7	t	7	4	5, 7&9	2	26	2		
6BD7	d1	7	4	5, 7&9	6	100	1		
6BD7	d2	7	4	5, 7&9	8	100	1		
6B4G		7	2	7	5	12	3		
6B5		7	1	6	4		3		
6B6G	t	7	2	7	9	30	2		
6B6G	d1	7	2	7	5	77	1		
6B6G	d2	7	2	7	4	77	1		
6B7	p	7	1	7	9	40	2		
6B7	d1	7	1	7	5	85	1		
6B7	d2	7	1	7	4	85	1		
6B7S	p	7	1	7	9	40	2		
6B7S	d1	7	1	7	5	85	1		
6B7S	d2	7	1	7	4	85	1		
6B8-G	p	7	1	7	9	40	2		
6B8-G	d1	7	1	7	5	74	1		
6B8-G	d2	7	1	7	4	74	1		
6C4		7	3	4, 1&5	6		2		
6C5-G		7	2	7	5	33	2		
6C6		7	1	6	9	35	2		
6C7	p	7	1	7	9		2		

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6C7	d1	7	1	7	5		1	
6C7	d2	7	1	7	4		1	
6C8	t1	7	2	7	5		2	
6C8	t2	7	2	7	9		2	
6D6		7	1	6	9	35	2	
6D7		7	1	7	9		2	
6D8G		7	2	7	5	31	2	
6E5		7	1	6	3	46	2	
6E6	t1	7	1	7	5		2	
6E6	t2	7	1	7	3		2	
6E7		7	1	7	9		2	
6F5-G		7	2	7	9	26	2	
6F6-G		7	2	7	5	16	3	
6F7	p	7	1	7	9	33	2	
6F7	t	7	1	7	5	50	2	
6F8G	t1	7	2	7	9	30	2	
6F8G	t2	7	2	7	5	30	2	
6G5		7	1	6	3	42	2	
6G6G		7	2	7	5	13	3	
6G8G	p	7	2	7	9	39	2	
6G8G	d1	7	2	7	5	75	1	
6G8G	d2	7	2	7	4	75	1	
6H6-G	d1	7	2	7	3	14	1	
6H6-G	d2	7	2	7	5	14	1	
6J5-G		7	2	7	5	32	2	
6J6	t1	7	3	4	5		2	
6J6	t2	7	3	4	6		2	
6J7-G		7	2	7	9	33	2	
6J8-G	p	7	2	7	9	29	2	
6J8-G	t	7	2	7	5	29	2	
6K5G		7	2	7	9	27	2	
6K6-G		7	2	7	5	16	3	
6K7-G		7	2	7	9	35	2	
6K8-G		7	2	7	5	25	2	
6L5G		7	2	7	5	10	2	
6L6-G		7	2	7	5	10	3	
6L7-G		7	2	7	9	30	2	
6J6	t1	7	3	4	5		2	
6J6	t2	7	3	4	6		2	
6M5		7	4	5, 3&8	2	6	3	
6N5		7	1	6	3	45	2	
6N6G		7	2	7	5		3	
6N7-G	t1	7	2	7	4	13	3	
6N7-G	t2	7	2	7	5	13	3	
6N8	p	7	4	5	2	24	2	
6N8	d1	7	4	5	7	100	1	
6N8	d2	7	4	5	8	100	1	
6P5		7	2	7	5		2	
6P7G	p	7	2	3	9	33	2	
6P7G	t	7	2	3	7	50	2	
6Q4		7	4	5, 1, 2, 7&8	1		2	
6Q7-G	t	7	2	7	9	28	2	
6Q7-G	d1	7	2	7	5	80	1	
6Q7-G	d2	7	2	7	4	80	1	
6R4		7	4	5	1		2	
6R7-G	t	7	2	7	9		2	

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6R7-G	d1	7	2	7	5		1	
6R7-G	d2	7	2	7	4		1	
6S7-G		7	2	7	9	32	2	
6SA7		7	2	7	5	27	2	
6SC7	t1	7	7	8	4	26	2	
6SC7	t2	7	7	8	3	26	2	
6SF5		7	7	8	3		2	
6SF6GT	p	7	2	8	2	32	2	
6SF7	p	7	7	8	2		2	
6SF7	d	7	7	8	5		1	
6SJ7		7	2	7	4	25	2	
6SK7		7	2	7	4	27	2	
6SL7GT	t1	7	7	8	1	26	2	
6SL7GT	t2	7	7	8	4	26	2	
6SN7GT	t1	7	7	8	1	32	2	
6SN7GT	t2	7	7	8	2	30	2	
6SQ7	t	7	7	8	2	30	2	
6SQ7	d1	7	7	8	5	80	1	
6SQ7	d2	7	7	8	4	80	1	
6SR7	t	7	7	8	2		2	
6SR7	d1	7	7	8	5		1	
6SR7	d2	7	7	8	4		1	
6SS7		7	2	7	4		2	
6T7G	t	7	2	7	9	31	2	
6T7G	d1	7	2	7	5	90	1	
6T7G	d2	7	2	7	4	90	1	
6U5		7	1	6	3	43	2	
6U7G		7	2	7	9	33	2	
6V6-G		7	2	7	5	12	3	
6V7G		7	2	7	9	43	2	
6V7G	d1	7	2	7	5	90	1	
6V7G	d2	7	2	7	4	90	1	
6W4		7	7	8	5		3	
6W7G		7	2	7	9	30	2	
6X4	d1	7	3	4	6	10	3	
6X4	d2	7	3	4	1	10	3	
6X5GT	a1	7	2	7	3	10	3	
6X5GT	a2	7	2	7	5	10	3	
6Y5	a1	7	1	6	3		3	
6Y5	a2	7	1	6	5		3	
6Y6G		7	2	7	5	7.5	3	
6Y7G	t1	7	2	7	5		2	
6Y7G	t2	7	2	7	4		2	
6Z4	a1	7	1	5	2	11	3	
6Z4	a2	7	1	5	3	11	3	
6Z5	a1	7	1	2&6	5		3	
6Z5	a2	7	1	2&6	3		3	
6Z7G	t1	7	2	7	4		3	
6Z7G	t2	7	2	7	5		3	
6ZY5G	a1	7	2	7	3		3	
6ZY5G	a2	7	2	7	5		3	
7A4		7	1	8	6	32	2	
7A5		7	2	7	6	11	3	
7A6		7	1	8	3		1	
7A7		7	1	8	6		2	
7A8		7	1	8	4		2	

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7B4		7	1	8	6		2		
7B5LT		7	1	8	6	20	3		
7B6LM	t	7	1	8	3	30	2		
7B6LM	d1	7	1	8	5	80	1		
7B6LM	d2	7	1	8	6	80	1		
7B8LM		7	1	8	4	32	2		
7B7		7	1	8	6		2		
7C5LT		7	1	8	6	8	3		
7C6	t	7	1	8	3		2		
7C6	d1	7	1	8	5		1		
7C6	d2	7	1	8	6		1		
7C7		7	1	8	6	35	2		
7E6	t	7	1	8	3	10	2		
7E6	d1	7	1	8	5	80	1		
7E6	d2	7	1	8	6	80	1		
7E7	p	7	1	8	6		2		
7E7	d1	7	1	8	4		1		
7E7	d2	7	1	8	3		1		
7F7	t1	7	1	8	5	28	2		
7F7	t2	7	1	8	4	28	2		
7G7		7	1	8	6		2		
7H7		7	1	8	6	24	2		
7J7	p	7	1	8	6	30	2		
7J7	t	7	1	8	4	30	2		
7N7	t1	7	1	8	5	30	2		
7N7	t2	7	1	8	4	30	2		
7Q7		7	1	8	4	26	2		
7Y4	a1	7	1	8	3	14	3		
7Y4	a2	7	1	8	6	14	3		
12A5		7	6	1&7	4		3		
12A6		9	2	7	6		3		
12A7	p	9	1	7	9	21	3		
12A7	r	9	1	7	5	10	3		
12A8GT		9	2	7	5	32	2		
12AT6	t	9	3	4	1	28	2		
12AT6	d1	9	3	4	6	80	1		
12AT6	d2	9	3	4	5	80	1		
12AT7	t1	7	4	5&9	2	24 ?	2		
12AT7	t2	7	4	4&9	7		2		
12AU6		9	3	4	1	25	2		
12AU7	t1	7	4	5&9	7	27 ?	2		
12AU7	t2	7	4	4&9	7		2		
12AX7	t1	7	4	5&9	2	25	2		
12AX7	t2	7	4	4&9	7	25	2		
12BA6		9	3	4	1	26	2		
12BE6		9	3	4	1	26	2		
12B8GT	p	9	2	7	9		2		
12B8GT	t	9	2	7	8		2		
12C8	p	9	2	7	9		2		
12C8	d1	9	2	7	5		1		
12C8	d2	9	2	7	4		1		
12F5GT		9	2	7	9		2		
12H6	d1	9	2	7	3	14	1		
12H6	d2	9	2	7	5	14	1		
12J5		9	2	7	9		2		
12J7GT		9	2	7	9	33	2		

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12K7GT		9	2	7	9	35	2		
12K8		9	2	7	5		2		
12Q7GT	t	9	2	7	9	28	2		
12Q7GT	d1	9	2	7	5	80	1		
12Q7GT	d2	9	2	7	4	80	1		
12SA7		9	2	7	5		2		
12SC7	t1	9	7	8	3		2		
12SC7	t2	9	7	8	4		2		
12SF5		9	7	8	3		2		
12SF7	p	9	7	8	2		2		
12SF7	d	9	7	8	5		1		
12SG7		9	2	7, 3& 5	4		2		
12SJ7		9	2	7	4		2		
12SK7		9	2	7	4		2		
12B7		9	1	8	6		2		
12SN7	t1	9	7	8	4		2		
12SN7	t2	9	7	8	1		2		
12SQ7	t	9	7	8	2	30	2		
12SQ7	d1	9	7	8	4	84	1		
12SQ7	d2	9	7	8	5	84	1		
12SR7	t	9	7	8	2		2		
12SR7	d1	9	7	8	5		1		
12SR7	d2	9	7	8	4		1		
12Z3		9	1	4	2	10	3		
14AF7	t1	9	1	8	4		2		
14AF7	t2	9	1	8	5		2		
14B6	t	9	1	8	3		2		
14B6	d1	9	1	8	5		1		
14B6	d2	9	1	8	6		1		
14B8		9	1	8	4		2		
14C5		9	1	8	6		3		
14C7		9	1	8	6		2		
14E6	t	9	1	8	3		2		
14E6	d1	9	1	8	5		1		
14E6	d2	9	1	8	6		1		
14E7	t	9	1	8	6		2		
14E7	d1	9	1	8	3		1		
14E7	d2	9	1	8	5		1		
14F7	t1	9	1	8	4		2		
14F7	t2	9	1	8	5		2		
14H7		9	1	8	6		2		
14J7	t	9	1	8	4		2		
14J7	p	9	1	8	6		2		
14N7	t1	9	1	8	4		2		
14N7	t2	9	1	8	5		2		
14Q7		9	1	8	4		2		
14R7	p	9	1	8	6		2		
14R7	d1	9	1	8	3		1		
14R7	d2	9	1	8	4		1		
14S7		9	1	8	6		2		
14V7		9	1	8	6		2		
15		2	1	5	9	40	2		
19	p1	2	1	6	3	34	2		
19	p2	2	1	6	4	34	2		
24A		3	1	5	9	38	2		
25A6-G		10	2	7	5	14	3		



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25A7G	p	10	2	7	5		3	
25A7G	r	10	2	7	6		3	
25AC5		10	2	7	5		3	
25B5		10	1	6	4		3	
25B6G		10	2	7	5		3	
25B8	t	10	2	7	8		2	
25B8	p	10	2	7	9		2	
25C6		10	2	7	5		3	
25L6-G		10	2	7	5	10	3	
25N6		10	2	7	5		3	
25Y5	a1	10	1	6	2	10	3	
25Y5	a2	10	1	6	5	10	3	
25Z4		10	2	7	5		3	
25Z5	a1	10	1	6	2	10	3	
25Z5	a2	10	1	6	5	10	3	
25Z6-G	a1	10	2	7	3	10	3	
25Z6-G	a2	10	2	7	5	10	3	
26		1	1	4	3	42	2	
27		3	1	5	3	41	2	
30		2	1	4	3	40	2	
31		2	1	4	3	48	2	
32		2	1	4	9	43	2	
32LZ7GT	p	11	2	7	5	14	3	
32LZ7GT	r	11	2	7	6	10	3	
33		2	1	5	3	33	2	
34		2	1	4	9	40	2	
35		3	1	5	9	40	2	
35A5		11	1	8	6		3	
35W4		12	3	4&6	5	8	3	
35Z3LT		11	1	8	2		3	
35Z4GT		12	2	7	5	8	3	
35Z5GT		10	7	23	5		3	
35L6GT		12	2	7	5		3	
36		7	1	5	9	36	2	
37		7	1	5	3	41	2	
38		7	1	5	9	21	3	
39		7	1	5	9	33	2	
41		7	1	6	4	20	3	
42		7	1	6	4	16	3	
43		10	1	6	4	14	3	
44		7	1	5	9	33	2	
45		3	1	4	3	17	3	
45Z3		11	1	7, 2&6	2		3	
45Z5GT		12	3	7	5		3	
46		3	1	5	3	16	3	
47		3	1	5	3	16	3	
48		11	1	6	4	40	3	
49		2	1	5	3	19	3	
50		8	1	4	3	27	3	
50B5		12	3	4	1	10	3	
50C5		12	3	4, 2&5	6	90	3	
50L6GT		12	2	7	5		3	
50Y6G	a1	12	2	7	3	10	3	
50Y6G	a2	12	2	7	5	10	3	
53	t1	3	1	7	3	13	3	
53	t2	3	1	7	5	13	3	

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55	t	3	1	6	9	42	2		
55	d1	3	1	6	4	90	1		
55	d2	3	1	6	3	90	1		
56		3	1	5	3	35	2		
57		3	1	6	9	33	2		
58		3	1	6	9	33	2		
59		3	1	7	4	20	3		
71A		6	1	4	3	19	3		
75	t	7	1	6	9	31	2		
75	d1	7	1	6	4	70	1		
75	d2	7	1	6	3	70	1		
76		7	1	5	3	34	2		
77		7	1	6	9	32	2		
78		7	1	6	9	33	2		
79	t1	7	1	6	3	13	3		
79	t2	7	1	6	9	13	3		
80	a1	6	1	4	2	16	3		
80	a2	6	1	4	3	16	3		
81		8	1	4	2	21	3		
82	a1	3	1	4	2	9	3		
82	a2	3	1	4	3	9	3		
83	a1	6	1	4	2	10	3		
83	a2	6	1	4	3	10	3		
83V	a1	6	1	4	2	9.5	3		
83V	a2	6	1	4	3	9.3	3		
84	a1	7	1	5	2	11	3		
84	a2	7	1	5	3	11	3		
85	t	7	1	6	9	43	2		
85	d1	7	1	6	4	90	1		
85	d2	7	1	6	3	90	1		
89		7	1	6	9	19	3		
104V		5	1	5	3	28	2		
164V		5	1	5	3	30	2		
244V		5	1	5	3	25	2		
354V		5	1	5	3		2		
807		7	1	5	3	10	3		
904V		5	1	5	3		2		
A209		2	1	4	3	40	2		
A409		5	1	4	3	38	2		
A415		5	1	4	3	33	2		
A425		5	1	4	3	36	2		
A442		5	1	4	3	36	2		
A609		7	1	4	3	35	2		
A615		7	1	4	3	28	2		
A642		7	1	4	3	35	2		
ABC1	t	5	2	3	9	30	2		
ABC1	d1	5	2	3	6	10	1		
ABC1	d2	5	2	3	5	10	2		
ACO44		5	1	4	3	15	3		
ACO64		5	1	4	3	17	3		
AF2		5	1	7	5	27	2		
AF3		5	2	3	9	27	2		
AF7		5	2	3	9	27	2		
AK1		5	1	7	5	30	2		
AK2		5	2	3	6	30	2		
AL2		5	2	3	9	11	3		

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AL3		5	2	3	6	9	3		
AZ1	a1	5	2	3	5	10	3		
AZ1	a2	5	2	3	8	10	3		
AZ3	a1	5	2	3	5	10	3		
AZ3	a2	5	2	3	8	10	3		
B205		2	1	4	3	42	2		
B217		2	1	4	3	40	2		
B240	t1	2	1	6	3	28	2		
B240	t2	2	1	6	4	28	2		
B242		2	1	4	3	30	2		
B255		2	1	4	3	29	2		
B262		2	1	4	3	29	2		
B405		5	1	4	3	33	2		
B406		5	1	4	3	36	2		
B409		5	1	4	3	36	2		
B443		5	1	4	3	35	2		
B605		7	1	4	3	35	2		
CBC1	t	9	2	3	9	29	2		
CBC1	d1	9	2	3	6	18	1		
CBC1	d2	9	2	3	5	18	1		
CC1		9	2	3	9	35	2		
CF1		9	2	4	9	27	2		
CF2		9	2	3	9	33	2		
CF3		9	2	3	9	28	2		
CK1		9	2	3	6	28	2		
CBL1	t	12	2	3	9	8.5	3		
CBL1	d1	12	2	3	6	46	1		
CBL1	d2	12	2	3	5	46	1		
CL2		10	2	3	9	10	3		
CL4		12	2	7	9	8.5	3		
CY1G		11	2	3	5	7	3		
CY2	a1	11	2	3	5	8	3		
CY2	a2	11	2	3	8	8	3		
CY31		10	2	7	5		3		
C243		2	1	5	3	28	2		
C243N		2	1	5	3	26	2		
C443		5	1	5	3	28	2		
C443N		5	1	5	3	33	2		
C643		7	1	5	3	28	3		
DH76	p	9	2	7	9	28	2		
DH76	d1	9	2	7	4	100	1		
DH76	d2	9	2	7	5	100	1		
DO26		5	1	4	3	14	3		
DU2	a1	5	1	4	2	14	3		
DU2	a2	5	1	4	3	14	3		
DU10		5	1	4	2	15	3		
DW4	a1	5	1	4	2	15	3		
DW4	a2	5	1	4	3	15	3		
E409		5	1	5	3	28	2		
E415		5	1	5	3	33	2		
E424		5	1	5	3	29	3		
E424N		5	1	5	3	29	2		
E435		5	1	5	3		2		
E442		5	1	5	3	33	2		
E443H		5	1	5	3		3		
E443N		5	1	5	3		3		

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E444N	d	5	1	6	3		1	
E444N	t	5	1	6	4		2	
E445		5	1	5	3	29	2	
E446		5	1	7	5	25	2	
E447		5	1	7	5	25	2	
E452T		5	1	5	3	25	2	
E454	t	5	1	7	9	32	3	
E454	d1	5	1	7	6	100	1	
E454	d2	5	1	7	4	100	1	
E455		5	1	5	3		2	
E463		5	1	7	5	10	3	
EB4	d1	7	2	3	5	10	1	
EB4	d2	7	2	3	7	10	1	
EBC3	t	7	2	3	9	29	2	
EBC3	d1	7	2	3	6	33	2	
EBC3	d2	7	2	3	5	33	1	
EBF1	p	7	2	3	9	48	2	
EBF1	d1	7	2	3	6	80	1	
EBF1	d2	7	2	3	5	80	1	
EBF2G	p	7	1	8	9	27	2	
EBF2G	d1	7	1	8	5	25	1	
EBF2G	d2	7	1	8	6	25	1	
EBF2P	p	7	1	8	9	27	2	
EBF2P	d1	7	1	8	6	25	1	
EBF2P	d2	7	1	8	5	25	1	
EBF35	p	7	1	8	9	27	2	
EBF35	d1	7	1	8	5	25	1	
EBF35	d2	7	1	8	6	25	1	
EBL1	p	7	2	3	9	10	3	
EBL1	d1	7	2	3	6	46	1	
EBL1	d2	7	2	3	5	46	1	
EBL31	p	7	2	7	9	10	3	
EBL31	d1	7	2	7	4	50	1	
EBL31	d2	7	2	7	5	50	1	
ECH3G	p	7	2	7	9		2	
ECH3G	t	7	2	7	5	27	2	
ECH3P	p	7	2	3	9	26	2	
ECH3P	t	7	2	3	5	28	2	
ECH4G	p	7	2	7	9		2	
ECH4G	t	7	2	7	5	27	2	
ECH4P	p	7	1	8	9		2	
ECH4P	t	7	1	8	5		2	
ECH35	p	7	2	7	9	28	2	
ECH35	t	7	2	7	5	32	2	
EF5		7	2	3	9	18	2	
EF6		7	2	3	9	17	2	
EF39		7	2	7	9	20	2	
EK1		7	2	3	6	30	2	
EK2		7	2	3	6	30	2	
EK2G		7	2	7	5	30	2	
EL2		7	2	3	9	10	3	
EL3		7	2	3	6	9	3	
EL3G		7	2	7	5	9	3	
EL3N		7	2	3	6	10	3	
EL3NG		7	2	7	5	10	3	
EL5		7	2	3	6	10	3	

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EL33A		7	2	3	9	9	3		
EM1		7	2	3	6	70	2		
EM3		7	2	3	6	34	2		
EM4		7	2	3	6	28	2		
EZ2	a1	7	2	3	5	14	3		
EZ2	a2	7	2	3	8	14	3		
EZ3	a1	7	2	3	5	10	3		
EZ3	a2	7	2	3	8	10	3		
EZ4	a1	7	2	3	5	10	3		
EZ4	a2	7	2	3	8	10	3		
IW3	a1	5	1	4	2	10	3		
IW3	a2	5	1	4	3	10	3		
KBC1 (P BASE)	t	2	2	3	9	32	2		
KBC1 (P BASE)	d1	2	2	3	6	76	1		
KBC1 (P BASE)	d2	2	2	3	5	76	1		
KBC1 (6 PIN)		2	1	6	9	32	2		
KBC1 (6 PIN)	d1	2	1	6	4	76	1		
KBC1 (6 PIN)	d2	2	1	6	3	76	1		
KDD1	t1	2	2	3	6	38	2		
KDD1	t2	2	2	3	7	38	2		
KC3		2	2	3	6		2		
KF1		2	1	6	4	27	2		
KF2		2	1	6	4	27	2		
KF3		2	2	3	9	35	2		
KF3G		2	2	7	9	35	2		
KF4		2	2	3	9	35	2		
KK2		2	2	3	6	40	2		
KK2G		2	2	7	6	40	2		
KLL3	t1	2	2	3	6	29	2		
KLL3	t2	2	2	3	1	29	2		
KL4		2	2	3	6	29	2		
KL4G		2	2	7	5	29	2		
KL5		2	2	3	6	32	3		
KT61		7	2	5	5	7	3		
KT66		7	2	7	5	10	3		
KT71		12	2	7	5		3		
PEN.4VA		5	1	7	5	10	3		
PM1A		2	1	4	3	38	2		
PM1HF		2	1	4	3		2		
PM1HL		2	1	4	3	32	2		
PM2		2	1	4	3		2		
PM2A		2	1	4	3	28	2		
PM2B	t1	2	1	6	3	30	2		
PM2B	t2	2	1	6	4	30	2		
PM2BA	t1	2	1	6	3	30	2		
PM2BA	t2	2	1	6	4	30	2		
PM2DX		2	1	4	3	34	2		
PM3		5	1	4	3	39	2		
PM4		5	1	4	3	35	2		
PM4DX		5	1	4	3	32	2		
PM5X		7	1	4	3	28	2		
PM6		7	1	4	3	35	2		
PM12		2	1	4	3	30	2		
PM12A		2	1	4	3	29	2		
PM12M		2	1	4	3	29	2		
PM14		5	1	4	3	36	2		

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PM16		7	1	4	3	35	2		
PM22		2	1	5	3	29	2		
PM22A		2	1	5	3	27	2		
PM24		5	1	5	3	33	2		
PM24A		5	1	5	3	29	2		
PM24B		5	1	5	3	19	2		
PM24M		5	1	5	3	24	3		
PM26		7	1	5	3	28	2		
PM202		2	1	4	3		2		
PM243		3	1	5	3	17	3		
PM252		2	1	4	3		2		
PM254		5	1	4	3	74	2		
PM256		7	1	4	3		2		
S4VA		5	1	5	5	33	2		
S4VB		5	1	5	3	25	2		
SP2		2	1	6	4	30	2		
SP4		5	1	7	5	25	2		
TDD2	t	2	1	6	9	32	2		
TDD2	d1	2	1	6	4	76	1		
TDD2	d2	2	1	6	3	76	1		
TDD2S	t	2	1	6	9	32	2		
TDD2S	d1	2	1	6	4	76	1		
TDD2S	d2	2	1	6	3	76	1		
TDD4	t	5	1	7	9	32	2		
TDD4	d1	5	1	7	6	100	1		
TDD4	d2	5	1	7	4	100	1		
U52	a1	6	2	8	4	11	3		
U52	a2	6	2	8	6	11	3		
U76		11	2	7	5		3		
VP2		2	1	6	4	35	2		
VP4		5	1	7	5	25	2		
W76		9	2	7	9		2		
X61M	h	7	2	7	9	22	2		
X61M	t	7	2	7	5	21	2		
X76M	h	9	2	7	9		2		
X76M	t	9	2	7	5		2		
Z77		7	3	4	1	20	2		
9001		7	3	4, 2&7	1	33	2		
9002		7	3	4, 2&7	6	10	2		
9003		7	3	4, 2&7	1	30	2		