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Colin Hinson

In the village of Blunham, Bedfordshire, UK.



**AVO  
VALVE  
DATA  
MANUAL**

## ADDITIONS AND AMENDMENTS TO FIRST PRINTING

The following amendments should be made to existing data:

Page 80—Valve Type CCa Selector Switch No. should read 641 237 410.

Page 116—Valve Type PC97 Ia mA should read 14.

Page 116—Valve Type PC97 mA/V should read 16.

Page 119—Valve Type PL504—see correct data below.

Recent additions to our data are listed below: reference should be made to this data if the valve type required does not appear in the main listing.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	BASE	TYPE
6CM5	020 540 310	A1	6.3	8.2	100	100	100	14	B8A	P
6CN8	414 237 516		6.3	1	100		3.3	3.6	B9A	TP
				16	200	200	35	6.4		
16CN8	414 237 516		16	1	100		3.3	3.6	B9A	TP
16L40	041 230 605		16	16	200	200	35	6.4		
25AQ8	741 236 410		25	14.2	200	200	45	7.6	B9A	P
				1.1	100		4.5	4.6	B9A	TT
62BT	020 540 310	A1	6.3	19.5	250	175	100	9.5	B8A	P
62L31	412 365 400		6.3	15	200	200	55	8	B7G	P
64SPT	141 230 650		6.3	2.6	200	200	10	7.1	B9A	P
6540	412 365 000		6.3	2	125	125	7.5	5	B7G	P
6845	402 365 100		6.3	2	300	150	10	9	B7G	P
CK5608	264 147 300		2.5	6	300		6	2.5	B7G	TT
CK5686	141 235 615		6.3	12.5	250	250	27	3.1	B9A	P
CK5763	600 235 144		6	7.3	250	250	45	7	B9A	P
CK5814	741 226 413		6.3	5.5	200		11	2.5	B9A	TT
CK7079	742 113 460		6.3	1.85	100		8.5	5	B8B	TT
E1164	256 001 403		6.3	2	250	250	10	7	B9D	P
E6080	471 461 230		6.3	30	100		100	7	A08	TT
EA F81	041 236 805		6.3	2	250	100	9	3.6	B9A	DP
EL81F	041 230 050	A1	6.3	28	200	200	40	6	B9A	P
H145	265 024 300		1.4	2	90	90	0.3	0.42	B7G	P
M8180	412 360 500		6.3	2	250	250	10	7.5	B7G	P
P310	265 013 000	G1	10	3	150	150	5.5	1.8	UX6	P
PCC88	741 236 410		7	1.3	90		15	12.5	B9A	TT
PL504	441 235 510	A1	27	20	150	150	70	11	B9D	P
PL509	405 235 041	A1	40	37	160	160	80	14	B9D	P
PTE11	265 004 130		18	3	210	210	20	11	B8G	P
QB329	741 226 413		12.6	8.5	250		10.5	2.2	B9A	TT
QB339	741 226 413		12.6	2	250		1.2	1.6	B9A	TT
REL39	402 365 100		6.3	2	300	150	10	9	B7G	P
SN1016	412 163 510		6.3	1.5	100	100	7.5	5	B8D	P
SN1038A	412 163 510		6.3	1.4	100	100	7	5	B8D	P
SN1039	412 365 100		6.3	2	120	120	7.5	5	B7G	P
UF40	260 045 130		12.6	2	200	150	3	1.8	B8D	P
VX8045	402 163 500		6.3	1.4	100	100	7	5	B8D	P
VX8046	402 653 160		6.3	2	100	100	7.5	5.3	B8D	P
VX8054	412 053 500		6.3	9	100	100	31	5	B8D	P

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## ACCESSORIES

If the valve base required does not appear on the Valve Holder Panel it is necessary to use an adaptor which plugs into an existing valve holder. These are supplied as follows:

No. 2. B9G	No. 8. Continental 8 pin (F8)
No. 3. B8B	No. 9. B7A
No. 4. B3G. Hivac DA4 and 5 pin	No. 9/1. B7A for use with Valve Tester Type 160
No. 5. Blank	No. 10. 5AA and 7AA (Acorn Valves)
No. 6. Sm7 (6A7 Base)	No. 11. B5A
No. 7. B9A	

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Whilst every care has been taken in the preparation of this manual to ensure that the data given is correct, the Company cannot accept any responsibility for damage caused to a valve under test, or the instrument, due to the inclusion of incorrect information.

# NOTES

This data manual is primarily intended for use with the Avo Valve Characteristic Meters Mk. 1, 2, 3 and 4, the Avo Valve Tester Type 160, and Avo two-panel Valve Tester, but once the Selector Switch code is understood, the manual also forms a quick and convenient guide for general use.

The Instruction Book which accompanies the instrument should be thoroughly studied before the data contained in this manual is used.

**IMPORTANT.** In the interests of accuracy, it is not recommended that these instruments should be used with a constant voltage transformer, unless it is known that the 3rd and 5th harmonic content is of a negligible proportion.

**TESTING WIRE ENDED (FLYING LEAD) VALVES.** Wire-ended (flying lead) valves may be tested by inserting individual wires into appropriate electrode connections of a suitable valve holder in correct sequence.

**BACK EMISSION.** Alternative test figures are given for use when valve shows signs of back emission from anode to G3. This phenomenon can be recognised by the anode current apparently decreasing as the valve heats up. Data to which this note refers is indicated thus "ξ".

**GRID BIAS.** When using Avo Characteristic Meter Marks I and II, to check valves requiring a bias of less than 1 volt, erroneous readings may be obtained due to the valve drawing grid current, which has the effect of reducing the grid bias voltage thus producing low mutual conductance readings. Users of these instruments are, therefore, advised to use the alternative data which has been supplied, which is indicated thus ø.

**INTERNAL CONNECTION (\*).** When the symbol \* appears among the Selector Switch set up figures, it indicates that an unknown electrode may be connected to this pin internally. To obtain the complete Selector Switch coding, test with an ohmmeter between pin marked \* and all others. (The ohmmeter should be on a sufficiently low range to discriminate between a dead short and filament resistance). Dependent upon the electrode to which this pin is internally connected the correct code can be set up and normal test procedure followed.

Where the pin marked *	is O.C. to all others	Set Roller to	..	..	..	..	..	..	..	0
"	"	connected to Cathode	Set Roller to	..	..	..	..	..	..	1
"	"	"	Heater—	"	"	"	..	..	..	2
"	"	"	Heater +	"	"	"	..	..	..	3
"	"	"	Grid	"	"	"	..	..	..	4
"	"	"	Screen	"	"	"	..	..	..	5
"	"	"	Anode 1	"	"	"	..	..	..	6
"	"	"	Anode 2	"	"	"	..	..	..	7
"	"	"	Diode Anode 1	Set Roller to	..	..	..	..	..	8
"	"	"	Diode Anode 2	"	"	"	..	..	..	9

**INSULATION TESTING.** The manufacturers of certain specialised types of valve, e.g. VHF types, thyra-trons etc., limit the maximum applied inter-electrode voltage to very low values; these restrictions apply with the valve either hot or cold.

In the Avo Valve Characteristic Meter, the peak value of the applied insulation potential is 150V; whilst this is perfectly satisfactory for the vast majority of valves listed, users are advised to check with the manufacturers' data sheets when special types are to be tested.

The majority of valves listed in the Avo Valve Data Manual are not subject to this limitation, but where valve data is not given, care should be exercised. Where valves are subject to this limitation they are indicated thus □.

**LOW ANODE IMPEDANCE TRIODES.** It has come to our notice that a number of valves included in the Valve Data Manual which, when tested, produce low anode currents, a typical example being the 6080 valve.

These valves have a moderately high mutual conductance coupled with a very low Ra. In the case of the 6080 this is in the order of 250 ohms. Ideally, when testing this type of valve, the source impedance should be negligible. Unfortunately, with the Valve Characteristic Meter, the source impedance is in the order of 200 ohms, most of which is due to the anode current measuring circuit. Under normal conditions this impedance is negligible when compared with the anode impedance of the valve under test; when these low impedance types are being tested, the valve is effectively being tested under dynamic conditions. Whilst we appreciate the difficulties with this drawback, we feel it is still acceptable, bearing in mind that the instrument will adequately test some 5000 ordinary valve types.

One suggestion for easing this difficulty is that a valve is selected which, when tested under dc conditions, meets the manufacturers' specifications. This valve should then be used under the same conditions in the Valve Characteristic Meter and the variation in anode currents and mutual conductance should then be noted, and used as a guide when testing valves of the same type.

Since only manufacturers' data is included in this publication anode current and mutual conductance figures have been omitted and the valve has been indicated thus  $\Delta$ .

## ABBREVIATIONS

**D, DD, DDD.** Diodes and multiple diodes.

**DT, DDT, DP, DDP.** Valve with another electrode assembly in addition to the diode.

**H** Heptode or Hexode.

**N** Nonode.

**O** Octode.

**P** Pentode or Tetrode. **PP** Double Pentode or Double Tetrode.

**T** Triode. **TT** Double Triode. **TH** Triode Heptode or Triode Hexode.

**TP** Triode Pentode.

**R** Rectifier. **RR** Full-wave Rectifier.

**TI** Tuning Indicator (magic eye).

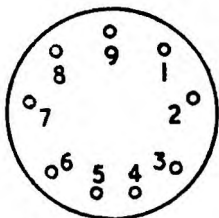
**CCR** Cold Cathode Rectifier.

‡ Appearing among ROLLER SELECTOR switch numbers, refers to third diodes in triple diodes. Refer to Working Instructions, Chapter 3, Section headed "Instruction for Testing Specific Valve Types" for full test procedure.

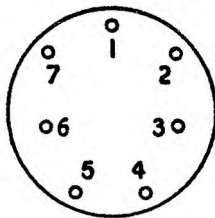
( ) Where brackets appear around stated heater voltage thus (5) it indicates that heater voltage given in Data columns has been uprated to allow for voltage drop at valve base, due to higher current taken by the particular valve.

# DIAGRAM OF STANDARD PIN CONNECTIONS

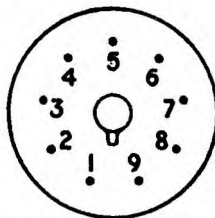
(viewed from underside of base)



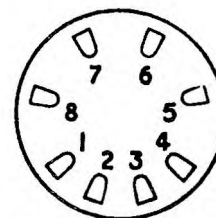
British Nine Pin (B9)



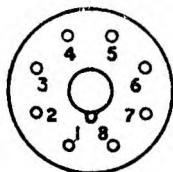
British Seven Pin (B7)



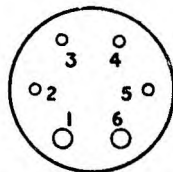
B9G



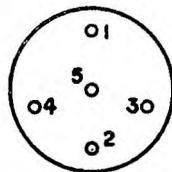
'P' Type Base (8 SC)



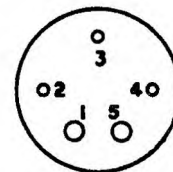
International Octal (A08)



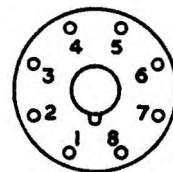
American Six Pin (UX6)



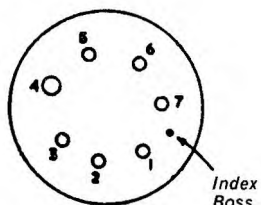
British 4/5 Pin (B5 & 4)



American Five Pin (UX5)

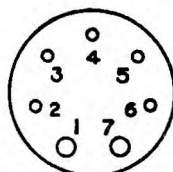


Mazda Octal (M08)

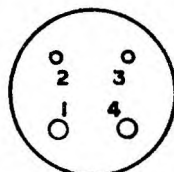


B7A

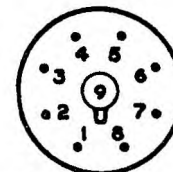
Index Boss



American Small Seven Pin (SM7)



American Four Pin (UX4)



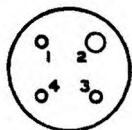
American Octal (B8B or B8G)



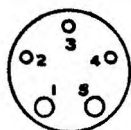
B9D



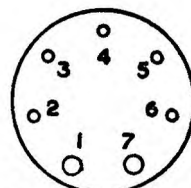
Sub Miniature 8 Pin (B8D)



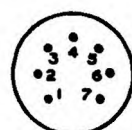
Hivac Four Pin (SM4)



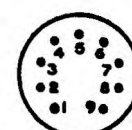
Hivac Five Pin (SM5)



American Seven Pin (UX7)



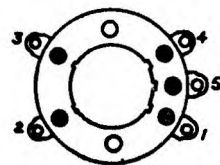
B7G



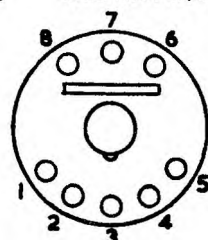
B9A



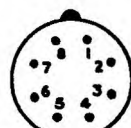
B3G



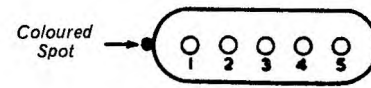
5AA & 7AA  
(Acorn Valves)



F8



B8A

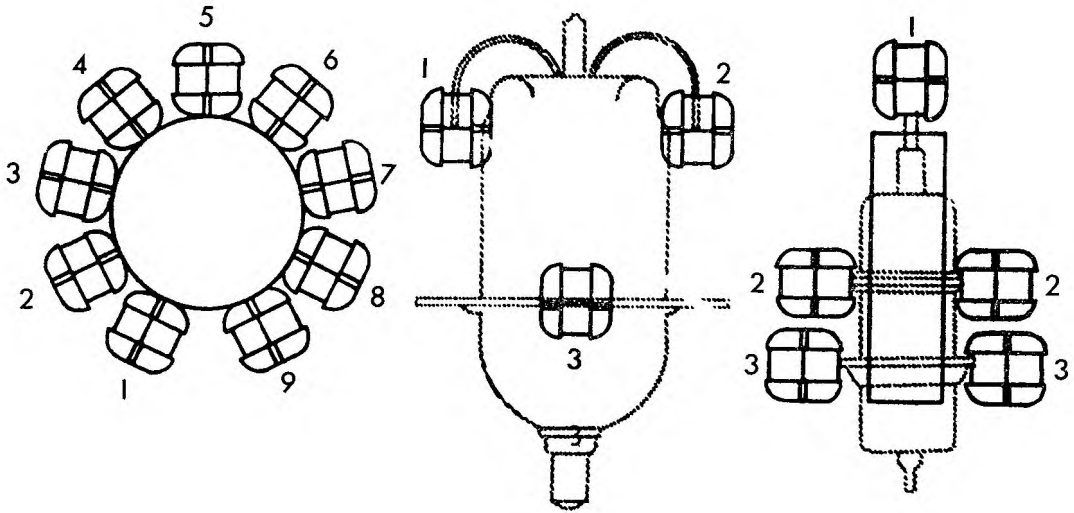


B5A

Coloured Spot

**DIAGRAM OF SPECIAL VALVE HOLDERS FITTED TO  
THE AVO VALVE TESTER TYPE 160**

*(bases are viewed from top of valve panel)*



# TEST DATA FOR RECEIVING AND SMALL TRANSMITTING VALVES

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE	
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
0Z4	007 060 010		—		250		58	3kΩ	No Data Available			A08	CCR	
00	364 200 000		5	0	40		1.0	0.66	No Data Available			UX4	T	
00A	364 200 000		5	0	40		1.5	0.66	No Data Available			UX4	T	
01	364 200 000		5	4.5	90		2.5		80			UX4	T	
01A	364 200 000		5	9	150		3	0.8	80		0.7	UX4	T	
01AA	364 200 000		5	4.5	90		3.2	0.9	90		0.8	UX4	T	
01B	364 200 000		5	4.5	90		2.5	0.72	90		0.8	UX4	T	
06F90	653 420 000		0.6	1.1	20	20	.05	0.1	No Data Available			B5A	P	
054V	642 310 000		4		100				100		4	B5	T	
084	642 300 000		4	2.0	150		4.0	1.4	125		1.4	B4	T	
1	281 300 000		6				60		REC		20mA	UX4	R	
1A3	281 008 300		1.4						D			B7G	D	
1A4	365 200 000	G1	2	3	150	75	2.2	0.6	100		75	0.6	UX4	P
1A4E	365 200 000	G1	2	3	150	75	2.2	0.6	100		75	0.6	UX4	P
1A4P	365 200 000	G1	2	3	90	75	2.2	0.7	80		75	0.7	UX4	P
1A4T	265 300 000	G1	2	3	150	75	2.2	0.6	100		75	0.6	UX4	P
1A5	036 540 200		1.4	4.5	90	90	4	0.85	80		75	0.8	A08	P
1A6	266 453 000	G1	2	0	150	75	3	0.4	80		60	0.4	UX6	P
1A7	892 300 000		4				60		REC		20mA	B4	RR	
1A7	026 546 300	G1	1.4	0	90	50	1.8	0.5	80		60	0.5	A08	H
1A8	327 546 280	G1	1.4		90	90	1.2	0.7	80		90	0.7	A08	DTP
1AB5	365 004 220		1.2	1.5	150	150	6.8	1.35	100		100		B8B	P
1AB6	265 461 300		1.4	4.1	60	60	1.65	0.1	No Data Available			B7G	H	
1AC5	*4* 23* 650		1.2	4.5	60	60	2.0	0.75	60		60	0.7	B8D	P
1AC6	266 464 300		1.4	4.0	60		4	2.2	80				B7G	H
1AD4	652 430 000		1.2	1.6	90	90	5.7	2.3	80		75	2.0	B5A	P
1AD5	*4* 23* 650		1.2	3.0	60	60	1.85	0.73	60		60	0.7	B8D	P
1AE4	265 024 300		1.2	0	90	90	3.5	1.55	90		80	1.5	B7G	P
1AE5	642 453 000		1.2		40	40	0.9	0.2	No Data Available			B5A	P	
1AF4	265 024 300		1.4	0	90	90	1.65	0.95	80		90	0.9	B7G	P
1AF5	208 564 300		1.4	0	90	90	1.1	0.6	80		90	0.6	B7G	DP
1AF33	208 564 300		1.4		60	60	1.6	0.5	No Data Available			B7G	DP	
1AF34	208 564 300		1.2		60	60	1.6	0.5	No Data Available			B7G	DP	
1AG4	653 420 000		1.2	3.6	40	50	2.4	1	No Data Available			B5A	P	
1AG5	658 243 000		1.2	2	40	40	0.2	0.2	No Data Available			B5A	DP	
1AH4	652 453 000		1.2		40	40	0.7	0.7	No Data Available			B5A	P	
1AH5	208 564 300		1.4	1.5	60	60	0.17	0.17	60		60	0.1	B7G	DP
1AJ4	265 124 300		1.4	0.8	75	75	1.4	0.65	80		75	0.7	B7G	P
1AJ5	658 243 000		1.2		40	40	1	0.4	No Data Available			B5A	DP	
1AK4	652 430 000		1.2		40	40	0.7	0.7	No Data Available			B5A	P	
1AL4	365 004 020		1.4	4.5	90	90	4	0.8	80		75	0.8	B8B	P
1AM4	265 024 300		1.4		90	60	2.4	0.3	80		60	0.2	B7G	P
1AN5	265 224 300		1.4	0	60	60	1.0	0.7	80		75	0.8	B7G	P
1AQ5	266 424 300		1.4		90	40			No Data Available			B7G	H	
1AR5	208 564 300		1.4		60	60	0.9	0.5	No Data Available			B7G	DP	
1AS4	265 024 300		1.4	0	90	90	1.6	0.85	100		90		B7G	P
1AS5	265 804 300		1.4		60	60	0.9	0.5	No Data Available			B7G	DP	
1AU3	030 000 200	D1	1.2						D			A08	D	
1AX2	230 232 032	D1	1.4						D			B9A	D	
1B3	020 000 300	D1	1.2						D			A08	D	

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
1B4	365 200 000	G1	2	3	200	60	1.7	0.6	100	60		UX4	P
1B4P	365 200 000	G1	2	3	90	75	1.6	0.6	80	60	0.6	UX4	P
1B4T(T)	265 300 000	G1	2	3	150	75	1.7	0.6	100	60	0.6	UX4	P
1B5	268 943 000		2	3	150		0.8	0.57	100		0.5	UX6	DDT
1B5L	368 942 000		2	3	100		0.8	0.5	100		0.5	UX6	DDT
1B6	265 406 300		1.4	1.5	90	75	1.5	0.75	80	75	0.7	B7G	P
1B7	026 546 300	G1	1.4	0	90	50	1.5	0.8	80	60	0.8	A08	H
1B8	037 546 280	G1	1.4	{ 6	90		0.1	0.3	80	60	0.1	A08	DTP
				{ 6	90	90	6.3	1.1	80	75	1.1		
1C	289 300 000		6						D			UX4	DD
1C1	266 424 300		1.4	4	75		4.5	1.2	80		1.4	B7G	H
1C2	266 464 300		1.4	4	60		4	1.2	80		1.4	B7G	H
1C3	260 406 300		1.4	3	90		1.4	0.76	80		0.7	B7G	T
1C3	266 464 300		1.4		60		3		NO Data Available			B7G	H
1C4	365 200 000	G1	2	0	150	75	2.5	1	150	75	1	UX4	P
1C5	036 540 200		1.4	7.5	90	90	7.5	1.5	80	75	1.5	A08	P
1C6	366 452 000	G1	2	0	150	75		1	150	75	1	UX6	H
1C7	026 546 300	G1	2	0	150	75		1	150	75	1	A08	H
1C8	240 236 540		1.2	0	30	30	0.3		No Data Available			B8D	H
1C91	624 300 000		1.2	2.5	150		7		100			B5A	T
1C91	026 447 300		1.2	2.5	125		7		100			A08	TT
1D3	402 306 060		1.2	5	90		12.5	3.4	100		3.4	B8A	T
1D4	264 530 000		2	6	150	150	9.5	2.4	100	100		UX5	P
1D5	802 310 000		40				120		REC		60mA	B5	R
1D5G	026 500 300	G1	2	3	200	75	2.3	0.7	100	75		A08	P
1D5GP	026 500 300	G1	2	3	90	75	2.2	0.7	80	60	0.7	A08	P
1D5GT	026 500 300	G1	2	3	150	75	2.2	0.6	100	60	0.6	A08	P
1D6	280 183 000		25				60		REC		60mA	UX6	R
iD7	036 546 200	G1	2	0	150	75	3	0.42	150	75	1.0	A08	P
1D8	037 546 280	G1	1.4	{ 0	90		1.1	0.5	80	60	0.5	A08	DTP
				{ 9	90	90	5	0.9	80	75	0.9		
1D13	281 0*8 300		1.4						D			B7G	D
1DN5	265 804 300		1.4		60	60	2.1	0.6	No Data Available			B7G	DP
1E3	402 203 060		1.2	0	150		20	3.5	100			B9A	T
1E4	026 040 300		1.4	3	90		1.4	0.76	80		0.7	A08	T
1E5	036 500 200	G1	2	3	150	75	1.7	0.6	100	60	0.6	A08	P
1E5GP	036 500 200	G1	2	3	90	75	1.6	0.6	80	60	0.6	A08	P
1E7	036 447 250		2	4.5	150	150	7.5	1.43	100	100	1.4	A08	PP
1E8	240 236 540		1.2	0	60	60	1.8	0.74	No Data Available			B8D	H
1F1	265 024 300		1.4	0.8	75	75	1.4	0.65	80	60	0.7	B7G	P
1F2	265 024 300		1.4	1.0	90	75	2.9	0.92	80	75	0.9	B7G	P
1F3	265 024 300		1.4	1.0	90	50	1.9	0.75	80	60	0.7	B7G	P
1F4	364 520 000		2	3	90	90	4	1.4	80	75	1.4	UX5	P
1F5	036 540 200		2	3	90	90	4	1.4	80	75	1.4	A08	P
1F6	365 892 000	G1	2	1.5	150	75	2.2	0.6	150	75	0.6	UX6	DDP
1F7	036 895 200	G1	2	1.5	150	75	2.2	0.6	150	75	0.6	A08	DDP
1F7GV	036 895 200	G1	2	1.5	150	75	2.2	0.6	150	75	0.6	A08	DDP
1F33	265 024 300		1.4		90	60	3.5	0.7	80	60		B7G	P
1F34	265 024 300		1.2		90	60	3.5	0.7	80	60		B7G	P
1F860	141 230 651		20		200	175	10	7.5	100	100	7	B9A	P
1FD1	2*8 564 300		1.4	1.5	60	60	0.17	0.17	80	60	0.1	B7G	DP
1FD9	208 564 300		1.4	1.0	75	75	1.6	0.63	80	75	0.6	B7G	DP
1G3	*2* 0*0 3*0	D1	1.2						D			A08	D

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
1G4	036 040 200		1.4	6	90		2.3	0.82	80		0.8	A08	T
1G5	036 540 200		2	6	90	90	8.5	1.5	80	75	1.5	A08	P
1G6	026 447 300		1.4	0	90		1.0	0.67	80		0.6	A08	TT
1H2	23* 232 *32	D1	1.4						D			B9A	D
1H3C	026 447 300		1.2	5.5	150		2.3	0.8	100			A08	TT
1H4	026 040 300		2	9	150		3	0.9	100		0.9	A08	T
1H5	036 080 200	G1	1.4	0.5	100		0.1	0.2	80		0.2	A08	DT
1H6	036 894 200		2	3	150		0.8	0.57	100		0.5	A08	DDT
1H33	265 424 300		1.4		90	60	1.6		80	60	0.3	B7G	H
1H34	265 424 300		1.2		90	60	1.6		80	60	0.3	B7G	H
1H35	265 454 300		1.4		90	40	0.6		No Data Available			B7G	H
1J3	020 000 300	D1	1.2						D			A08	D
1J5	036 540 200		2	16.5	150	150	7	0.95	100	100	0.9	A08	P
1J6	026 447 300		2	3	150		1.7		100			A08	TT
1J6GX	026 447 300		2	0	150		2		125			A08	TT
1K3	020 000 300	D1	1.2						D			A08	D
1K4	365 200 000	G1	2		150	75	2.5	1	150	75	1	UX4	P
1K5	026 500 300	G1	2		125	75	2.5	1	125	75	1	A08	P
1K5B	026 500 300	G1	2		125	75	1	1	125	75	1	A08	P
1K6	369 852 000	G1	2	3	150	90	0.9	0.6	100	75	0.6	UX6	DDP
1K7	026 895 300	G1	2	4.4	150	150	1.5	0.7	100	100	0.7	A08	DDP
1L4	265 024 300		1.4	0	90	75	2.9	0.92	80	75	0.9	B7G	P
1L5	026 540 300		2	6	200	200	10	2.4	100	150	2.4	A08	P
1L6	266 451 300		1.4	0	90	50	4	0.55	80	60		B7G	H
1L33	264 526 300		1.4	7	90	60	7.4	1.4	80	60		B7G	P
1L34	254 526 300		1.2	7	90	60	7.4	1.4	80	60		B7G	P
1L60	642 300 000		1		150		6.0	1.2	150		1.2	B4	T
1L84	365 004 020		1.4	4.5	90	90	4	0.85	80	70	0.8	B8B	P
1L91	652 430 000		1.2	4.5	40	40	1.2	0.5	No Data Available			B5A	P
1L861	041 230 651		20		200	200	15	9	100	100		B9A	P
1LA4	361 004 020	S	1.4	4.5	90	90	4	0.85	90	70		B8B	P
1LA4E	365 004 020		1.4	4.5	90	90	3.5	0.8	80	75	0.8	B8B	P
1LA6	366 454 020		1.4	0	90	50	1.8	0.55	80	60	0.5	B8B	H
1LA6E	366 454 020		1.4	0	90	50	1.8	0.55	80	60	0.5	B8B	H
1LB4	365 004 020		1.4	9	90	90	5	0.9	80	75	0.9	B8B	P
1LB6	266 554 430		1.4	0	90	75	0.4	0.1	90	70		B8B	H
1LB7	265 104 130		1.4	3	40	40	1	0.3	No Data Available			A08	P
1LC5	365 124 020		1.4	0	90	50	1.15	0.77	80	60	0.7	B8B	P
1LC6	266 454 030		1.4	0	90	50	3	0.55	80	60	0.5	B8B	H
1LD5	365 804 020		1.4	0	90	50	0.6	0.57	80	60	0.5	B8B	DP
1LE3	350 0*4 020		1.4	3	90		1.4	0.76	80		0.76	B8B	T
1LF3	260 004 030		1.4	3	90		1.4	0.76	80		0.7	B8B	T
1LG5	365 124 020		1.4	1.5	90	90	3.7	1.15	80	90	1.1	B8B	P
1LH4	360 804 020		1.4	0	90		0.15	0.27	80		0.2	B8B	DT
1LN5	365 124 020		1.4	0	90	90	1.6	0.8	80	90	0.8	B8B	P
1M5G	036 500 200	G1	2		150	75	2.5	1	150	75	1	A08	P
1M90	624 300 000		1.4		90		0.25					B4A	T
1N2	*2* *** 3*0	D1	1.2						D			A08	D
1N5	036 500 200	G1	1.4		90	90	1.2	0.7	80	75	0.7	A08	P
1N6	036 548 200		1.4	4.5	90	90	3.4	0.8	80	75	0.8	A08	DP
1NA31	802 208 300		5				15		REC		10mA	B7G	R
1P1	365 024 300		1.4	5.2	90	90	5.0	1.4	80	75	1.4	B7G	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
1P5	036 500 200	G1	1.4		90	90	2.3	0.7	80	90	0.7	A08	P	
1P10	264 536 200		1.4	7	90	75	7.4	1.57	80	60	1.5	B7G	P	
1P11	365 024 300		1.4	4.5	90	90	9.5	2.15	80	75	2	B7G	P	
1Q5	036 540 200		1.4	4.5	90	90	9.5	2.2	80	75	2.2	A08	P	
1Q6	040 238 650		1.25	0	60	60	1.6	0.6	No Data Available			B8D	DP	
1R	026 510 300	G1	1.4		90	90	1.2	0.7	80	90	0.7	A08	P	
1R4	200 800 130		1.4						D			B8B	D	
1R5	266 424 300		1.4	4	75		5	1.2	80		1.4	B7G	H	
1R5T	261 425 300		1.4		90	70	1.15	0.3	No Data Available			B7G	H	
1R6	230 232 032	D1	1.2						D			B9A	D	
1LB7	265 104 130		1.4	3	40	40	1	0.3	No Data Available			A08	P	
1LC5	365 124 020		1.4	0	90	50	1.15	0.77	80	60	0.7	B8B	P	
1S2A	32* 323 *23	D1	1.4						D			B9A	D	
1S4	264 526 300		1.4	7	90	75	7.4	1.57	80	60	1.5	B7G	P	
1S5	208 564 300		1.4	0	75	75	1.6	0.62	80	75	0.6	B7G	DP	
1S6	604 238 050		1.2	0	60	60	1.6	0.6	No Data Available			B8D	DP	
1SA6	021 405 360		1.4	0	90	75	2.45	0.97	80	75	0.9	A08	P	
1SB6	036 580 240		1.4	0	90	75	1.45	0.66	80	75	0.6	A08	DP	
1T	036 500 320	G1	1.4	4.5	90	90	0.9	2.1	80	75	2.1	A08	P	
1T2	123 000 000	D1	1.4						D			B3G	D	
1T4	365 200 000		2	0	150	75	2.5	1	150	75	1	UX4	P	
1T4	265 024 300		1.4	0	90	75	3.5	0.9	80	75	0.9	B7G	P	
1T5	036 540 200		1.4	6	90	90	6.5	1.15	80	75	1.1	A08	P	
1T6	604 238 050		1.2	0	60	60	1.6	0.6	No Data Available			B8D	DP	
1U4	265 024 300		1.4	0	90	90	0.8	0.68	80	90	0.9	B7G	P	
1U5	265 804 300		1.4	0	75	75	1.6	0.62	80	75	0.6	B7G	DP	
1U6	266 541 300		1.4	0	75	50	1.7	0.3	No Data Available			B7G	H	
1V	281 300 000		6				60		REC		20mA	UX4	R	
1V2	8** 230 **8		0.625						D			B9A	D	
1V4	265 *24 300		1.25	0	150	100	1.6		125	100		B7G	P	
1V5	*4* 23* 650		1.2	4.5	60	60	2	0.75	No Data Available			B7G	P	
1V6	654 247 300		1.25	0	45	45	4.4					} B7B	TP	
					45	45	0.4	0.2	No Data Available					
1W4	892 300 000		4				30		REC		40mA	B4	RR	
1W4	265 004 300		1.4	9	90	90	5	0.92	80	75	0.9	B7G	P	
1W5	040 230 650		1.25	0	60	60	1.8	0.73	No Data Available			B84	P	
1W50	842 010 000		1.0	0.5	100		0.2	0.2	100			B5	T	
1X2	230 232 032	D1	1.2						D			B9A	D	
1Y2	200 300 000	D1	1.4									UX4	R	
1Y32	232 232 300	D1	1.4						D			B7G	D	
1Y32T	232 232 300	D1	1.4						D			B7G	D	
1Z1	020 000 300	D1	0.7						D			A08	D	
1Z2	232 232 300	D1	1.2						D			B7G	D	
2	642 300 000		2	4	150		1.5		100			B4	T	
2/25A	200 300 000	D1	6				30		REC			18mA	UX4	R
2/50A	200 300 000	D1	5				60		REC			20mA	UX4	R
2A1M	026 546 300	G1	2		150	75	2.2		100	80		A08	H	
2A3	264 300 000		2.5	45	250		60	5.2	100		5.2	UX4	T	
2A3H	364 200 000		2.5	62	300		40	5.25	100		5.2	UX4	T	
2A3W	264 300 000		2.5	45	250		60	5.2	100		5.2	UX4	T	
2A5	265 413 000		2.3(3)	16.5	250	250	34	2.5	100	150	2.5	UX6	P	
2A6S	269 813 000	G1	2.5	2	250		0.9	1.1	150		1.1	UX6	DDT	
2A7	265 541 300	G1	2.5	8	250	100	3.5	1.1	150	100	1.1	Sm7	H	

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
2AF4	642 314 600		2.5											
2B3	*20 000 3*0	D1	1.7	4.0	100		15	6.6		80		6.0	B7G	T
										D			A08	D
2B5	267 413 000		2.5		300		9			No Data Available			UX6	TT
2B5	634 224 370		1.2	1	90		2.6	1.1		80		1.1	B8A	TT
2B7	265 891 300	G1	2.5	3	250	125	9	1.1		100	100	1.1	UX7	DDP
2B21	300 200 000	D1	2.5				5			D			UX4	R
2B22	021 010 310	D1	6							D			A08	D
2B25	200 800 300		1.4							D			B7G	D
2B26	280 300 000		2.5				120			REC		30mA	UX4	R
2B35	123 000 000	D1	6							D			B3G	D
2B36	123 000 000	D1	4							D			B3G	D
2BN4	142 361 400		2	1.5	150		9	6.8		100		7	B7G	T
2C21	217 461 300	G1	6	16.5	250		8.3	1.3		100		1.3	UX7	TT
2C22	020 000 310	A1 G1	6	10.5	300		11	3		100		3	A08	T
2C23	264 300 000		7.5	32	350		16	1.55		100		1.5	UX4	T
2C25	264 300 000		7	100	350		50			No Data Available			UX4	T
2C26	020 000 310	A1 G1	6	15	350		16			100			A08	T
2C34/(RK)34	204 140 300	A1 A2	6.3	36	300		80			No Data Available			Sm7	TT
2C40	*21 010 310	A1 G1	6	5	250		20			100			A08	T
2C43	*21 010 310	A1 G1	6.3		400		38			100			A08	T
2C45	364 200 000		7	40	250		29			100			UX4	T
2C48	265 004 130		6	15	250	250	70			100	150		B8B	P
2C50	461 471 230		12.6		200		18	2.9		100			A08	TT
2C50	265 004 130		12	15	250	250	70			100	150		B8B	P
2C51	214 607 413		6	2	150		8.2	5.5		125		5.5	B9A	TT
2C52	461 471 230		12.5	2	250		1.3	1.9		200		1.9	A08	TT
2CY5	412 365 100		2.5	1	150	80	10	8		125	75	8	B7G	P
2D1	289 130 000		2.5							D			UX5	DD
2D2	892 310 000		2							D			B5	DD
2D4	892 310 000		4							D			B5	DD
2D4B	091 231 800		4							D			B7	DD
2D13	023 180 000	D2	13							D			B5	DD
2D13A	823 190 000		13							D			B5	DD
2D13C	892 310 000		13							D			B5	DD
2D21	412 316 100		6		400		50	6kΩ		No Data Available			B7G	THY
2DL4	414 234 464		2		150		12.5	14		No Data Available			B9A	T
2E22	254 130 000	A1	6	15	400	250	60	5.5		100	150		UX5	P
2E24	235 242 300	A1	3	18.5	400	200	16	3.2		200	100	3.2	A08	P
2E25	020 540 320		6	22.5	400	250	40			No Data Available			A08	P
2E26	125 141 300	A1	6	20	200	200	20	3.5		100	75	3.5	A08	P
2E30	413 365 200		3	20	250	250	40	3.7		100	100	3.7	B7G	P
2E31	652 430 000		1.25	0	20	20	0.4	0.5		No Data Available			B5A	P
2E32	652 430 000		1.25	0	20	20	0.4	0.5		No Data Available			B5A	P
2E35	652 430 000		1.25	0	20	20	0.27	0.38		No Data Available			B5A	P
2E36	652 430 000		1.25	0	20	20	0.27	0.38		No Data Available			B5A	P
2E41	658 243 000		1.25	0	20	20	0.36	0.37		No Data Available			B5A	P
2E42	658 243 000		1.25	0	20	20	0.35	0.37		No Data Available			B5A	P
2E50	412 265 300		6	20	250	250	10	3.4		100	100		B7G	P
2EA5	412 365 100		2.3	1	250	150	10	8		100	100		B7G	P
2EM5	092 310 800		2.1							D			B7G	DD
2EN5	092 310 800		2.1							D			B7G	DD
2ER5	142 360 100		2.3	1.2	200		10			100			B7G	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
2ES5	142 360 100		2.3	1	200		15	9.5	100		9.5	B7G	T
2EV5	412 365 100		2.4		250	75	11.5	8.8	100	80		B7G	P
2F7	275 641 300	G1	2.5	{ 3 3	100 250	100	4 2.8		100 100	3.8 100		UX7	TP
2FH5	142 360 100		2.3	1	150		11	9	100			B7G	T
2FQ5	142 360 100		2.3	1.2	150		11.5	11	100			B7G	T
2FS5	412 365 100		2.4	0.2	275	150	10	10	100	100		B7G	P
2FV6	265 424 300		2.4	1	150	75	10	8	100	80		B7G	P
2FY5	142 360 100		2.4	1.2	150		11	12	100			B7G	T
2GK5	142 360 100		2.3	1.2	150		11	15	No Data Available			B7G	T
2H1	026 447 300		2.1		150		3.2	2.1	100		2.1	A08	TT
2HM5	412 365 100		2.4	1.2	150		12.5	14.5	100		10	B7G	T
2HMD	452 310 000	A1 A2	4		200	100	3.8	1.1	100	100	1.1	B5	PP
2HQ5	412 361 100		2.4	1	150		11.5	15	100		9.3	B7G	T
2HR8	501 236 014		2.1		250	150	3	1.8	100	100		B9A	P
2J2	230 232 032	D1	2						D			B9A	D
2K2	026 500 300	G1	2	2	100	100	2.5	0.9	100	100	0.9	A08	P
2L32	264 536 200		1.4	7	60	60	7	1.5	60	60		B7G	P
2L33	265 436 200		1.4	8.4	150	90	14.1	1.9	100	80		B7G	P
2L34	264 536 200		1.4	7	60	60	7	1.5	60	60		B7G	P
2L35	265 143 200		1.2	8.8	150	90	14.2	2.1	100	100		B7G	P
2M2M	264 536 200		1.2	3.5	60	60	3.7	1.1	80	60		B7G	P
2-01C	2** *** 300	D1	5						D			B7G	D
2P	642 300 000		2	22	250		40	7	100		7	B4	T
2S	289 130 000		2.5				15		REC		10mA	UX5	RR
2S/140G	208 130 800		6.3				5		D			B7G	R
2S/280F	*12 3** *00	D1	4				30		REC		15mA	B7G	R
2S/280K	112 311 100	D1	4				30		REC		15mA	B7G	R
2SC10	642 300 000		2.5	1	250		15	2.4	100			B4	T
2T4	642 310 600		2.3	2.7	75		18	7	75		7	B7G	T
2T/270K	112 311 100	D1	4						REC		5mA	B7G	R
2T/350D	020 000 300	D1	2.5				30		REC		13mA	A08	R
2U14	642 300 000		2		150		2	0.6	125		0.6	B4	T
2U15	642 300 000		2		150		4	0.8	100		0.8	B4	T
2V2	020 000 030	D1	2.5						D			A08	D
2V3	020 000 300	D1	2.5(3)						D			A08	R
2W3	020 800 030		2.5				60		REC		20mA	A08	R
2X2	300 200 000	D1	2.5(3)						D			UX4	R
2X3	020 800 030		2.5				120		REC		30mA	A08	R
2XP	642 300 000		2	36	300		50	7	100		7	B4	T
2Y2	200 300 000	D1	2.5				5		D			UX4	R
2Z2	280 300 000		2.5				60		REC		20mA	UX4	R
2.5C9	642 300 000		2.5	4	250		8	2.2	100			B4	T
3	642 300 000		2	7.5	150		3.4	0.9	100		0.9	B4	T
3A2	230 232 032	D1	3						D			B9A	D
3A3	*2* 0*0 3*0	D1	3						D			A08	D
3A4	365 426 300		1.4	8.4	150	90	13.3	1.9	100	75	1.9	B7G	P
3A5	264 347 200		1.4	2.5	90		3.7	1.8	80		1.8	B7G	TT
3A8	237 546 380	G1	1.4	{ 0 0	90 90	90	0.2 12	0.3 0.7	80 80	60	0.3	A08	DTP
3A/107A	264 300 000		4	8	150		6.5	1.6	100		1.6	UX4	T
3A/107B	642 300 000		4	8	150		6.5	1.6	100		1.6	B4	T
3A/108A	264 300 000		2	1.5	150		0.9	0.5	100		0.5	UX4	T
3A/108B	642 300 000		2	1.5	150		0.9	0.5	100		0.5	B4	T

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				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
3A/109A	264 300 000		4	8	150		19	1.2	100		1.2	UX4	T
3A/109B	642 300 000		4	8	150		19	1.2	100		1.2	B4	T
3A/154M	260 0*4 130		6	2	250		12	3	100		3	B8B	T
3A/167M	2*0 61* 430		6.3	3.5	200		10	30	No Data Available			B8G	T
3AB4	602 304 100		3.1	2	250		10	5.5	100			B7G	T
3AE4	365 004 230		1.4	9	90	90	1.8	1.6	80	75	1.6	A08	P
3AF4A	642 314 600		3	4	100		15	6.6	100		7.5	B7G	T
3AJ8	541 237 464		3.1	{ 3 2	{ 100 250	100	{ 5 6.5	{ 2.3 2.4	{ 100 150	100	{ 2.3 2.4	B9A	TH
3AL5	192 310 800		3				5		D			B7G	DD
3AT4A	602 304 100		3.1	1	200		11.5	6.7	100			B7G	T
3AU6	412 365 100		3	1.0	250	150	10	5.2	100	150	5	B7G	P
3AV6	412 398 600		3	2	250		1.2	1.6	200		1.6	B7G	DDT
3AW3	*2* 0*0 3*0	D1	3.1						D			A08	D
3AY6	412 389 600		3	2	250		1.2	1.6	200		1.6	B7G	DDT
3AZ4	020 809 030		5				60		REC		15mA	A08	RR
3B2	*2* 0** 3*0	D1	3						D			B8A	D
3B4	524 332 600		1.25	10	150	125	30	2.2	100	100	2	B7G	P
3B5	036 540 320		1.4	7	75	75	6.7	1.5	80	60	1.5	A08	P
3B7	364 204 730		1.4	0	90		5.2	1.85	80		1.8	B8B	TT
3B24	320 200 000	D1	2.5				30		REC		15mA	UX4	R
3B29	300 200 000	D1	2.5						REC			UX4	R
3B/102B	643 210 000		6		400		100	6	No Data Available			B5	T
3B/240M	214 444 130	A1	6	1	300		50	27	No Data Available			B8B	T
3B/241M	214 444 130	A1	19	1	300		50	27	No Data Available			B8B	T
3B/252B	642 310 000		6	20	400		60	10	100		8	B5	T
3BA6	412 365 100		3	1	250	100	11	4.4	100	100	4.4	B7G	P
3BC5	412 365 100		3	1.3	250	150	7.5	5.7	100	150	5.8	B7G	P
3BE6	412 365 100		3.1	6	150	100	7.5	3.5	100	100	5	B7G	H
3BF6	142 360 100		3.1	9	250		9.5	1.9	100			B7G	T
3BN4	142 361 400		2.8	2	150		9	6.8	100		6	B7G	T
3BN6	412 354 600		3	1	60	60	0.5	1	80	60	1	B7G	P
3BU8	157 231 461		3	1	100	60	1	1.5	100	60	1.5	B9A	PP
3BX6	141 230 651		3.4	2	200	175	10	7.2	100	100	6	B9A	P
3BY6	412 365 400		3	2.5	250	100	6.5	2.4	100	100	2.0	B7G	H
3BY7	141 230 651		3.2	1.8	250	75	8	5.7	100	75		B9A	P
3BZ6	412 365 100		3	1.0	150	125	14	8	200	150	6	B7G	P
3C2	020 *3* 2*0		1.5						D			A08	D
3C4	365 *24 300		1.4	5.2	90	90	5.0	1.4	80	75	0.7	B7G	P
3C5	036 540 320		1.4	9	90	90	6	1.4	80	75	1.4	A08	P
3C6	206 447 320		1.4	0	90		4.5	1.3	80		1.3	B8D	TT
3C24	200 300 000	A1 G1	6.3	3	400		4.5	1.2	100			UX4	T
3C36	412 365 100		3	2.2	200	150	9.5	6.2	100	150	6	B7G	P
3CB6	412 365 100		3	1.0	150	125	13	8.0	100	150	6.0	B7G	P
3CE5	412 365 100		3.1	2.1	200	150	9.5	6.2	100	100		B7G	P
3CF5	402 365 100		3.1		150	125	11	7.6	100	100		B7G	P
3CF6	412 365 100		3	1.0	150	125	12	7.8	100	150	6	B7G	P
3CS6	412 365 100		3	1.0	100	30	1.0	1.1	100		1.1	B7G	H
3CY5	412 365 100		2.9	1	150	75	10	9	100	80	8	B7G	P
3D6	365 004 230		1.4	4.5	150	90	10.2	2.4	100	75	2.4	B8B	P
3D21A	320 504 210	A1	6.3	30	400	300		5.5	No Data Available			A08	P
3DG4	1*1 080 900		3.3				120		REC		30mA	A08	RR
3DK6	412 365 100		3.1	0.9	150	125	12	9.8	100	100	9.5	B7G	P
3DL4	414 234 464		2.6	1.2	150		12	14	No Data Available			B9A	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
3DT6	412 365 100		3	2.2	150	100	1.1	0.8	150	100	2.0	B7G	P
3E5	365 024 300		1.4	8	90	90	6	1.2	80	75	1.2	B7G	P
3E6	265 134 020		1.4	0	90	90	2.5	1.8	90	90	1.8	A08	P
3EA5	402 365 100		3	1	250	100	10	8	100	100		B7G	P
3EH7	141 230 651		3.4	2	200	90	12	12.5	No Data Available			B9A	P
3EJ7	141 230 510		3.4	2.5	200	200	10	15	No Data Available			B9A	P
3ER5	142 360 100		3.6	1.2	250		10	10.5	100			B7G	T
3ES5	142 360 100		3	1	200		15	9.5	100			B7G	T
3EV5	412 365 100		2.9		250	75	11.5	8.5	100	80		B7G	P
3FH5	142 360 100		3	1	150		11	9	100			B7G	T
3FQ5	142 360 100		2.8	1.2	150		11.5	11	100			B7G	T
3FQ5A	142 360 100		2.8	1.2	150		11	12	No Data Available			B7G	T
3FS5	412 365 100		2.9	0.2	300	150	9	10	No Data Available			B7G	P
3FY5	142 360 100		3.1	1	150		11	13	No Data Available			B7G	T
3G10	892 300 000		2.5				30		REC		15mA	B4	RR
3G130	892 300 000		2.5				30		REC		15mA	B4	RR
3GK5	142 360 100		2.8	1	150		11.5	15	No Data Available			B7G	T
3GS8	156 231 471		3.1		100	75	2	1.2	100	75		B9A	PP
3HM5	412 360 100		2.9	1.2	150		12.5	14.5	No Data Available			B7G	T
3HQ5	412 361 100		3	1	150		11.5	15	100		12	B7G	T
3HS8	157 231 461		3.1		100	75	2	0.4	100	75	0.4	B9A	PP
3L31	265 436 200		1.4	8.7	150	90	14.2	2.1	100	90		B7G	P
3L35	265 243 200		1.4		150	125	18.5		100	100		B7G	P
3LE4	365 004 230		1.4	9	90	90	1.8	1.6	80	75	1.6	A08	P
3LF4	365 004 230		1.4	4.5	90	90	8	2	80	75	2	B8B	P
3Q4	364 526 300		1.4	5	90	90	6.9	1.97	80	75	1.9	B7G	P
3Q5	036 540 320		1.4	4.6	90	90	9	2	80	75	2	A08	P
3S4	364 526 300		1.4	7	90	75	7.4	1.57	80	60	1.5	B7G	P
3SB6	036 540 200		1.4		90	60	1.4	0.6	80	60		A08	P
3V4	365 024 300		1.4	4.5	90	90	7.7	2	80	75	2	B7G	P
3W4	264 536 200		1.4	5.2	90	90	6.8	1.7	80	75	1.5	B7G	P
3Y4	264 536 200		1.4	5.4	60	60	5	1.2	80	60		B7G	P
3Y6A1	023 104 560		6.3		400	300		2	No Data Available			F8	P
3Z4	264 536 200		1.4	7	60	60	6.5	1.4	No Data Available			B7G	P
4	642 300 000		2	1	150		1	0.9	150		0.9	B4	T
4/100BU	892 300 000		4				120		REC		30mA	B4	RR
4A6G	026 447 230		2	1.5	90		1.2	0.9	80		0.9	A08	TT
4A07	642 300 000		4	2	100		1.4	1.2	100		1.2	B4	T
4A08N	642 300 000		4		200		6	2.4	100			B4	T
4A10	642 300 000		4	2.5	150		6	1.8	125		1.8	B4	T
4A15	642 300 000		4		100		7	2.2	100		2.2	B4	T
4A80	642 310 000		4		150		6	2	150		2	B5	T
4A80N	642 310 000		4		200		6	2.4	100			B5	T
4A90	642 310 000		4		200		8	3.5	100		3	B5	T
4A120	642 310 000		4		150			1.4	125		1.4	B5	T
4AU6	412 365 100		4	1	250	150	10	5.2	100	60	5.2	B7G	P
4AV6	412 389 600		4.2	2	250		1.2	1.6	100		1.2	B7G	DDT
4BA6	412 365 100		4.2	1	250	100	11	4.4	100	100	4.4	B7G	P
4BC5	412 365 100		4.2	1.3	250	150	7.5	5.7	100	150	5.7	B7G	P
4BC8	741 236 410		4.2	2.2	150		10	6.2	150		5	B9A	TT
4BE6	412 365 100		4.2	6	150		7.5	3.5	100		5	B7G	H

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
4BL8	645 237 114		4.5	2	100		14	5	100		5	B9A	TP
4BN4	142 361 400		4		2.2	200	175	10	6.2	100	100		
4BN6	142 354 600		4.2	1	60	60	0.5	1.0	80	60	1.0	B7G	P
4BQ7A	741 236 410		4	2	150		9	6.4	100		6	B9A	TT
4BS8	641 237 410		4.2	4.4	150		10	7.2	100		7	B9A	TT
4BU8	157 231 461		4.2	1	150	100	4	3.5	150	100	3.5	B9A	PP
4BX8	641 237 410		4.2	1	150		11	7.5	125			B9A	TT
4BZ6	412 365 100		4.2	1	100	100	12	8	100	100	8	B7G	P
4BZ7	741 236 410		4.2	2.2	150		10	6.8	100			B9G	TT
4BZ8	641 237 410		4.2	2	150		10	8	125		8	B9A	TT
4BZ11	741 236 410		4	2.2	150		10	6.8	100		6	B9A	TT
4C1	264 300 000		3	3	90		5	1	80		1	UX4	T
4C1A	264 300 000		3	3	90		5	1	80		1	UX4	T
4C2	642 310 000		4	5	150		11	2.5	125		2.5	B5	T
4C3	642 310 000		4	3.5	200		6	2.4	100		2	B5	T
4C4	642 310 000		4	3.5	200		6	2.4	100		2	B5	T
4C5	642 300 000		4	10	400		30	4	No Data Available			B4	T
4C101	023 004 060		4	45	250		60	6	100			F8	T
4C102	642 300 000		4	45	250		40	2	No Data Available			B4	T
4C103	642 300 000		4	35	250		45	3.5	No Data Available			B4	T
4CB6	412 365 100		4.2	1	150	125	13	8	125	125	8	B7G	P
4CC1	642 301 140		4	3.5	200		6	3.2	100		2.2	F8	TT
4CE5	412 365 100		4.2	1	150	125	11	7.6	125	125	7.6	B7G	P
4CF6	412 365 100		4.2	2	200	150	9.5	6.2	100	100		B7G	P
4CF8	501 236 014		4.5	2	250	150	3	2	100	100		B9A	P
4CM4	641 234 146		3.6	1.5	200		12	14	No Data Available			B9A	T
4CS6	412 365 100		4	1	100	30	1	11	No Data Available			B7G	P
4CX7	641 237 410		4.2	10	150		9	6.4	150			B9A	TT
4CY5	412 365 100		4.2	1	150	80	10	8	125	75	8	B7G	P
4D1	000 231 600	G1	13	3	250		10	5	100		4	B7	T
4D80	642 310 000		4		100		2	1	100		1	B5	T
4DE6	412 365 100		4.2	1.1	150	125	15.5	8	100	100		B7G	P
4DK6	412 365 100		4.2	0.9	150	125	12	9.7	100	100	9.5	B7G	P
4DL4	414 234 464		4	1.2	150		12	14	No Data Available			B9A	T
4DT6	412 365 100		4.2		150	150	12	9	150	100	2	B7G	P
4DT6A	412 365 100		4.2		150	100	12	9	150	100	2	B7G	P
4E2	023 189 560	G1	4	14	250	275	72		100	100		8SC	DDP
4E4	023 110 560	G1	4	2	250	100	3	2.1	100	100		8SC	P
4E104	265 004 130		4	6	250	250	36	9	100	100		B8G	P
4E201	023 110 560		4	3	250	100	8	1.8	100	100		F8	P
4EH7	141 230 651		4.4	2	200	100	12	12.5	100	100		B9A	P
4EJ7	141 230 651		4.4	2.5	200	200	10	15	No Data Available			B9A	P
4ER5	142 360 100		4.2	1.2	200		10	10.5	100			B9A	T
4ES8	741 236 410		4	1.2	90		15	12.5	No Data Available			B9A	TT
4EW6	412 365 100		4.2	0.8	150	125	11	14	No Data Available			B7G	P
4FC7	146 234 117		3.8	1.2	90		15	12.3	80			B9A	T
4FS7	141 234 675		4.6	3	100		14	5.5	100	60		B9A	TP
4G30	892 300 000		4		1.2	200	150	10	1.2	100	100		
4G105	892 300 000		4				15		D			B4	RR
4G200	892 300 000		4				30		REC		15mA	B4	RR
4G5000	023 000 000	D1	4				60		REC		20mA	B4	RR
									D			F8	R

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
4GG1	892 300 000		4				30			REC	15mA	B4	RR
4GG2	892 300 000		4				60			REC	20mA	B4	RR
4GG3	892 300 000		4				120			REC	30mA	B4	RR
4GG4	023 080 090		4				30			REC	15mA	F8	RR
4GK5	142 360 100		4	1	150		11.5	15		No Data Available		B7G	T
4GM6	412 365 100		4.2		150	125	14	13		No Data Available		B7G	P
4GS8	156 231 471		4.2		100	75	2	1.2	100	75		B9A	PP
4GX7	141 236 574		4.2	1	125		13	8.5				B9A	TP
					125	125	8	11	100	100	9.4		
4GZ5	142 345 600		4		250	250	16	8.5	100	100		B7G	P
4H07	642 300 000		4		150		3	1.1	100		1	B4	T
4H07N	642 300 000		4		150		3	1.1	100			B4	T
4H08	642 300 000		4		150		5	1.2	100		1	B4	T
4H80	642 300 000		4		150		3	1.1	100		1	B4	T
4HM5	412 365 100		4	1.2	150		12.5	14.5	No Data Available			B7G	T
4HQ5	412 361 100		4.2	1.0	150		11.5	15	100		12	B7G	T
4HS8	157 231 461		4.2		100	75	2	0.4	100	75	0.4	B9A	PP
4K30	642 300 000		4	10	150		20	3.6	100		3	B4	T
4K32	642 300 000		4	15	200		30	3.6	100		3.0	B4	T
4K50	642 300 000		4	20	200		60	5	No Data Available			B4	T
4K60	642 300 000		4	20	300		60	3.5	No Data Available			B4	T
4K61	642 300 000		4		300			3	No Data Available			B4	T
4K100	642 300 000		4	3	300	200	50	4	No Data Available			B4	T
4L11	642 300 000		4		150		7	1.4	100		1.0	B4	T
4L12	642 300 000		4		150		9	2	100		1.5	B4	T
4L13	642 300 000		4		200		8	2	100		2	B4	T
4L13A	642 300 000		4	11	200		14	2.5	100			B4	T
4L14	642 300 000		4		200		10	2.2	No Data Available			B4	T
4L15	642 300 000		4		100			2.2	100		2.2	B4	T
4L16	642 300 000		4	8	150		100	2.2	100		2.0	B4	T
4L20	642 300 000		2		100			1.4	100		1.4	B4	T
4L28	642 300 000		4	4	150		10.5	4	100		3.	B4	T
4L29	642 300 000		4	8	150		20	3.6	100			B4	T
4LMBT	642 310 000		4	1	200		3.4	2.6	100		2	B5	T
4MBT	642 310 000		4	1	200		3.4	2.6	100		2.6	B5	T
4MP12	412 365 400		4	6	200	175	25	5.5	100	100		B7G	P
4N08	642 300 000		4		100		8	1.2	100		1.2	B4	T
4N100	642 310 000		4		150			3.5	100		3	B5	T
4N110	642 310 000		4		200		5	1.5	100		1.3	B5	T
4NG	892 300 000		4				30		REC		15mA	B4	RR
4P25	642 300 000	G2	4	19	250	150	12	1.3	100	100		B4	P
4R-HH2	741 236 410		4.2	1	90		8.5	8	80		8	B9A	TT
4R-HH8	641 237 410		4.2	1	100		16	16	No Data Available			B9A	TT
4R-HH9	641 237 410		4.2		90		16	16	No Data Available			B9A	TT
4S	289 130 000		2.5						D			UX5	DD
4S09	542 300 000	A1	4	1	200	100	4.5	0.9	100			B4	P
4S120	542 310 000	A1	4	2	200	60	4	0.5	100	100		B5	P
4S121	542 310 000	A1	4		200	100	6	1	100	100		B5	P
4S126	542 310 000	A1	4	2	200	100	3	2	100	100		B5	P
4T1	642 314 600		4.7	2.3	80		16	6.6	75			B7G	T
4THA	645 231 700	G1	4	5	100		1.5	1.5	80		1.5	B7	TH
					2	250	100	3.5	2.5	100	100		

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
4TP	446 231 500	A2	4	5	150	150	16	4.5	150	100	4.5	B7	TP
4TPB	061 321 500	G1	4	3	250	150	12	8	100	100	7	B7	P
4TSA	045 231 600	A1	4		250	100	5	1.6	250	100	1.6	B7	P
4TSP	041 231 500	A1	4	3	250	150	12	8	100	100	7	B7	P
4U130	643 210 000		3.5		100			2.8	100			B5	T
4W08	642 300 000		4		150		4	1.5	100			B4	T
4W100	642 310 000		4		200		1.5	3.5	100		3	B5	T
4W120	642 310 000		4		200		2	0.7	100			B5	T
4W200	642 310 000		4		150			3.3	100		3	B5	T
4X150A	512 1*1 314	A1	6.3	30	250	200	32	4.0	100	100		B9G	P
4XP	642 300 000		4	28.5	250		48	5	100		7	B4	T
4Z60A	023 080 090		4				30		REC		15mA	F8	RR
5A6	601 225 413		2.5	15	150	150	20		100	100		B9A	P
5A/102D	026 510 310	G1	7.5	18	200	150	42	2.5	100	100	2.5	AO8	P
5A/136D	026 510 310	G1	7.5	5.5	250	150	5.2	2	100	100	2	AO8	P
5A/137D	026 510 310	G1	6.3	2	250	100	1.8		100	100		AO8	P
5A/150A	265 113 000	G1	10	5.5	250	150	5.2	2	100	100	2	UX6	P
5A/152M	265 104 130		6	2	250	150	10	7.5	100	100	5	B8B	P
5A/155M	256 101 403		6	2	250	250		6.5	100	100	5	B9G	P
5A/156M	265 114 113		6	1.7	250	250	10	7.7	100	150	6	B9G	P
5A/157D	026 510 310	G1	6	2	250	100		1.8	100	100	1.8	AO8	P
5A/159G	412 361 500		6.3	2	250	250	10	7.5	100	100	5	B7G	P
5A/159H	412 361 500		6.3	2	250	250	10	7.5	100	100	5	B7G	P
5A/160H	412 361 500		6.3	2	250	250	10	7.5	100	100	5	B7G	P
5A/160K	412 361 500		6.3	2	250	250	10	7.5	100	100	5	B7G	P
5A/163K	141 236 115		6	1.5	200	200	15	15	No Data Available			B9A	P
5A/170K	141 230 615		6.3	1.5	200	150	13	16.3	No Data Available			B9A	P
5A/171G	102 513 410	A1	6	5	100	100	20	2.7	100	100	2.5	B8D	P
5A/180M	365 104 130		6.3		200	150	26	32	No Data Available			B8G	P
5A/189KY	412 361 500		6.3	2	250	250	10	7.6	100	100	5	B7G	P
5A/201K	412 361 500		6.3	3.3	200	200	7.1	4	100	100	3.2	B7G	P
5A/210K	412 361 500		6	5	100	100	12.5	4	100	100	4	B7G	P
5A/220K	601 225 413		5	10	150	150	28	4.4	100	100		B9A	P
5AM8	145 236 181		4.7	1.7	200	150	11.5	7.0	100	150	7.0	B9A	DP
5AN8	641 237 541		5	{	6	200	13	3.3	100	60	3	B9A	TP
				2.2	200	150	9.5	6.2	100	150	6		
5AQ5	412 365 400		5	12.5	250	250	45.0	4.1	100	150	4.0	B7G	P
5AR4	*30 809 020		5				120		REC		30mA	AO8	RR
5AS4	030 908 020		5				120		REC		30mA	AO8	RR
5AS4A	020 908 030		5				120		REC		40mA	AO8	RR
5AS8	541 238 116		5	2.2	200	150	9.5	6.2	100	150	6.0	B9A	DP
5AT4	030 809 020		5.0									AO8	RR
5AT8	461 237 514		5	{	1	100	8.5	5.8	100	60	5	B9A	TP
				1.8	250	150	7.7	4.6	100	150	4		
5AU4	020 809 030		5				180		REC		40mA	AO8	RR
5AV8	146 234 157		5	{	6	200	13	3.3	100	60		B9A	TP
				2.2	200	150	9.5	6.2	100	100			
5AW4	020 809 030		5				120		REC		40mA	AO8	RR
5AX4	020 809 030		5				60		REC		20mA	AO8	RR
5AZ4	020 809 030		5				60		REC		20mA	B8B	RR
5B1	542 300 000	A1	2	1	150	90	2	1.4	150	90	1.3	B9A	P
5B8	146 234 157		5	{	6	200	13	3.3	100	60	3	B9A	TP
				1.8	200	150	9.5	6.3	100	150	6		
5B/104D	026 540 310		24		24	24	3	3	No Data Available			AO8	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
5B/110M	265 104 130		6	6	250	150	38	6.5	100	100	5	B8B	P
5B/250A	254 130 000	A1	6	12.5	400	250	83	6.3	100	150	6	UX5	P
5B/251M	215 044 130	A1	6	15	250	250	72	6	100	100	5	B8B	P
5B/252M	265 044 130		6	15	250	250	72	6	100	100	5	B8B	P
5B/253M	265 044 130		19	15	250	250	72	6	100	100	5	B8B	P
5B/254M	215 144 130	A1	6	20	300	250	50	5.6	100	100	5	B8B	P
5B/255M	265 144 130		6	20	300	250	50	5.6	100	100	5	B8B	P
5B/256M	215 144 130	A1	19	20	300	250	50	5.6	100	100	5	B3B	P
5B/257M	265 144 130		12	20	300	250	50	5.6	100	100	5	B8B	P
5B/258M	215 144 130	A1	19	14	250	250	72	6	No Data Available			B3B	P
5B/280D	*26 541 310		6.3	60	400	300	100	6.3	No Data Available			AO8	P
5B/354D	*36 541 210		6.3	20	300	150	90	10	No Data Available			AO8	P
5B/355D	*36 541 210		6.3	20	300	150	90	10	No Data Available			AO8	P
5BC3	2*3 *9* **8		5				120		REC		40mA	B9D	RR
5BE8	461 237 514		4	{ 1	150		18	8.5	100	60	7	} B9A	TP
5BK7A	741 236 411		5	1	250	100	10	5.2	150	100	5		TP
5BQ7A	741 236 410		5.6	2	150		10.7	9.3	100		9	B9A	TT
5BR8	461 237 514		5	{ 1	150		18	8.5	100	60	8	} B9A	TP
				0.9	250	100	10	5.2	100	100			TP
5BS8	641 237 410		5.6		150		10	7.2	100			B9A	TT
5BT8	981 236 541		4.7	2.2	200	150	9.5	6.2	100	100		B9A	DDP
5BW8	918 234 156		4.7	1.1	250	100	10	5.2	100	100		B9A	DDP
5BX7	641 237 410		5.6		150		10	6.8	100		6.8	B9A	TT
5BZ7	741 236 410		5.6	2.2	150		10	6.8	100		6	B9A	TT
5CG4	030 809 020		5				60		REC		20mA	AO8	RR
5CG8	461 237 514		4.7	{ 0.9	100		8.5	5.8	100	60	5.8	} B7G	TP
				1.9	250	150	7.7	4.6	100	100			TP
5CL8	461 237 514		4.7	{ 0.9	150		15	8	100		0.8	} B9A	TP
				1	150	125	12	5.8	100	100	5.5		TP
5CM6	504 234 106		4.7	12.5	250	250	45	4.1	100	100	4	B9A	P
5CM8	641 237 514		4.7	{ 2	250		1.8	2	100	60		} B9A	TP
				2.2	200	150	9.5	6.2	100	100			TP
5CQ8	645 237 114		4.2	{ 0.8	150	125	15	8	100		8	} B7G	TP
				1	150		12	5.8	125	125	9.5		TP
5CR8	641 237 514		4.7	{ 2	125		12	4	100	60	4	} B9A	TP
					125	125	13	7.7	100	100	7		TP
5CU4	120 809 030		5				180		REC		60mA	AO8	RR
5CZ5	504 234 1*6		45	6.7	100	100	43	9	100	100		B9A	P
5DH8	461 237 514		5.2	{ 2.5	250		7	4.4	100	60	4	} B9A	TP
				1	150	125	13	8.6	125	125	8.6		TP
5DJ4	228 899 330		5.0				120		REC		40mA	AO8	RR
5DN4	228 899 330		5				120		REC		40mA	AO8	RR
5E255	642 350 000		2	4.5	150	150	9.5	2.5	100	100	2.5	B5	P
5E415	642 350 000		4	25	300	200	20	1.7	100	150	1.7	B5	P
5EA8	645 237 114		4.7	{ 1	150		18	8.5	100		8.5	} B9A	TP
				1	150	125	12	6.4	100	100	6.4		TP
5EH8	146 231 457		4.7	{ 1	150		13.5	7.5	100	60		} B9A	TP
				1	150	125	12	6	100	100			TP
5ES8	641 237 410		5.6	1.2	90		15	12.5	100			B9A	TT
5EU8	746 231 415		4.7	{ 1	150		18	8.5	100	60		} B9A	TP
				1	150	125	12	6.4	100	100			TP
5EW6	412 365 100		5.6	0.8	150	125	11	14	No Data Available			B7G	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V				
5FC7	146 234 117		5.1	1.2	100		15	12.3	No Data Available			B9A	TT		
5FG7	461 237 514		4.7	{ 1	150		13	7.5	100	60	7	} B9A	TP		
5FV8	461 237 514		4.7	{ 1	150	125	11	6	100	100	6				
5GK18	020 809 030		4.7	{ 1	150		14	8	100	60	8				
5GK20	030 809 020		5	{ 1	150	125	12	6.5	100	100	6.5	} B9A	TP		
5GK22	030 809 020		5						REC					AO8	RR
5GK24	030 809 020		5				120		REC		40mA	AO8	RR		
5GH8	645 237 114		4.7	{ 1	150		13	8.5	100	60		} B9A	TP		
5GM6	412 365 000		5.6	{ 1	150	125	12	7.5	100	100					
5GX6	412 365 100		4.7	56	150	150	14	13	No Data Available					B7G	P
5GX7	141 236 574		5.6	{ 1	125		13	8.5	100			} B9A	TP		
Ø5J6	672 344 100		5	{ 1	125	125	8	11	100	100	9.4			} B7G	TT
				{ 0.8	100		8.5	5.3	100	5.3					
5KE8	645 237 114		5.6	{ 3	150		5	4.5	100		5.3	} B9A	TP		
5MK9	002 380 000		5	{ 1	125		13	8	100						
5MHH3	672 344 100		4.7	{ 0.4	125	125	10	12	100	100	9.6			B7G	R
5M-HH3	142 360 100		4.7	1	100		11	7.5	100		7.5	B7G	TT		
5P29	120 540 310	A1	6	7	250	250	100	14.3	No Data Available			B7G	T		
5Q5	036 540 320		1.4	4.6	90	90	4.5	2	80	75	2	AO8	P		
5R4	020 809 030		5(5.7)				60		REC		25mA	AO8	RR		
5R4GY	020 809 030		5(5.7)				60		REC		20mA	AO8	RR		
5R-DDH1	911 238 641		4.7	2	250		1.6	1.6	100		1.6	B9A	DDT		
5RHH5	641 227 413		4.6	1	100		0.6	0.3	100		0.3	B9A	TT		
5RK16	800 230 090		5				120		REC		30mA	B9A	RR		
5T4	020 809 030		5				120		REC		30mA	AO8	RR		
5T4A	041 231 500	A1	4	4.5	250	150	4.5	1.7	100	100		B7	P		
5T8	191 238 146		5	3	250		1.0	1.2	150		1.3	B9A	DDDT		
5U4	020 809 030		5(5.7)				120		REC		70mA	AO8	RR		
5U8	645 237 114		5	{ 1	150		18	8.5	100	60	7	} B9A	TP		
5V3	020 809 030		5	{ 1	250	100	10	5.2	100	100	5				
5V4	030 809 020		5(5.7)				120		REC		30mA	AO8	RR		
5V6	026 540 310		4.7	12.5	250	250	45	4.1	100	150	4	AO8	P		
5W4	020 809 030		5				60		REC		20mA	AO8	RR		
5X3	289 300 000		5				15		REC		10mA	AO8	RR		
5X4	008 090 230		5				120		REC		30mA	AO8	RR		
5X8	146 231 457		5	{ 1	100		8.5	5.8	100	60	5	} B9A	TP		
5Y3GB	030 809 020		5(5.7)	{ 1.8	250	150	7.7	4.6	100	150	4				
5Y3GR	020 809 030		5(5.7)				60		REC		20mA	AO8	RR		
5Y3GT	020 809 030		5(5.7)				60		REC		20mA	AO8	RR		
5Y4	008 090 230		5				60		REC		30mA	AO8	RR		
5Y4SG	008 090 230		5				60		REC		20mA	AO8	RR		
5Z3	289 300 000		5(5.7)				120		REC		30mA	UX4	RR		
5Z4	030 809 020		5(5.7)				60		REC		40mA	AO8	RR		
5Z4G	030 809 020		5(5.7)				60		REC		40mA	AO8	RR		
5Z10	020 908 030		5				120		REC		30mA	B8A	RR		
6/3GL2	741 236 410		6.3	7.9	200		10	3.4	100	100	3	B9A	TT		
6A3	264 300 000		6	36	250		60	5.25	100		5	UX4	T		

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6A4	264 530 000		6	9	150	150	14	1.9	100	100	1.9	UX5	P
6A5	026 040 310		6	45	250		60	5.25	100		5	AO8	T
6A6	274 146 300		6	5	250		3.0	1.6	100		3.1	UX7	TT
6A7	265 541 300	G1	6	8	250	100	3.5	1.1	100	100	1.1	Sm7	H
6A7E	265 541 300	G1	6	8	250	100	3.5	1.1	100	100	1.1	Sm7	H
6A7S	265 541 300	G1	6	8	250	100	3.5	1.1	100	100	1.1	Sm7	H
6A8GT	026 545 310	G1	6	8	250	100	3.5	1.1	100	100	1.1	AO8	H
6A10C	026 541 340		6		250	100	3.5		100	100		AO8	H
6AB4	602 304 100		6	2	250		10	5.5	100		5.5	B7G	T
6AB7	021 415 360		6	3	300	200	12.5	5	100	150	5	AO8	P
6AB8	641 237 154		6	{ 2	100		4	1.4	100	60	1.4	B9A	TP
				8	200	200	17.5	3.5	100	150	3.5		
6AC5	026 040 310		6	0	250		2.5		No Data Available			AO8	T
6AC6	026 740 310		6		200		45	2	100		2	AO8	TT
6AC7	021 415 360		6	2	300	150	10	9	100	100	8	AO8	P
6AD4	402 013 080		6	11.5	100		1.4	2	100		2	B8B	T
6AD5	026 040 310		6	1	250		0.9	1.5	200		1.5	AO8	T
6AD7	427 546 310		6	{ 25	250		4	0.3	100	60	0.3	AO8	TP
				16.5	250	250	34	2.5	100	150	2.5		
6AD8	541 236 891		6	2.0	250	90	6.7	1.1	100	90		B9A	DDP
6AE4	026 040 310		6	15	100		7	1.2	80		1.2	AO8	T
6AE6	026 740 310		6	1.5	250		6.5	1	200		1	AO8	TT
6AE7	026 414 310		6	13.5	250		10	3	100		3	AO8	TT
6AE8	541 237 46*		6	{ 2	100		5.2	2.2	100	60	2.8	B9A	TH
				2	250	90	3.5		150	90			
6AF3	*** 23* **8	C	6				120		REC		40mA	B9A	R
6AF4	642 314 600		6	4	100		15	6.6	80		6	B7G	T
6AF4A	642 314 600		6	3	100		20	7.5	100		7.5	B7G	T
6AF5	026 040 310		6	18	200		7	1.5	100		1.5	AO8	T
6AG5	412 365 100		6	1.5	250	150	6.5	5	100	100	5	B7G	P
6AG6	026 540 310		6	6	250	250	32	10	100	150	9	AO8	P
6AG7	120 415 360		6	3	300	150	30	11	100	100	410	AO8	P
6AH4	420 060 310		6	23	250		30	4.5	100			AO8	T
6AH5	520 604 310		6	18	350	250	54	5.2	100	150	5	AO8	P
6AH6	412 365 100		6	2	300	150	10	9	100	100	8	B7G	P
6AH7	417 146 230		6.3	9	250		12	2.4	100		2.2	AO8	TT
6AJ4	414 464 234		6	2	125		8	7	100		10	B9A	T
6AJ5	412 365 100		6	7.5	200	175	2.9	2.7	100	75		B7G	P
6AJ7	020 415 360		6		300	150	10	9	150	150	7.5	AO8	P
6AJ8	541 237 164		6	{ 3	100		5	2.3	100	60	2.3	B9A	TH
				2	250	100	6.5	2.4	150	100	2.4		
6AK4	402 013 060		6	2.5	250		9.5	3.8	100		3	B8D	T
6AK5	412 365 100		6	2.3	150	150	7	4.3	100	100	4	B7G	P
6AK6	412 365 100		6	9	200	175	15	2.3	100	100	2.3	B7G	P
6AK7	120 415 360		6	3	300	150	30	11	100	100	9	AO8	P
6AK8	†91 238 146		6	3	250		1.0	1.2	100		1.3	B9A	DDDT
6AL3	*** 23* **8	C	6						D			B9A	D
6AL5	192 310 800		6						D		6.0	B7G	DD
6AL6	020 540 310	A1	6	14	250	250	72	6	100	150	6	AO8	P
6AM4	414 464 234		6	1	200		10	9.8	100		6	B9A	T
6AM5	412 360 500		6	13.5	250	250	16	2.6	100	150	2.6	B7G	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE	
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V			
6AM6	412 361 500		6	{ 2	250	250	10	7.5	100	150	5	} B7G B9A B7G	P	
6AM8	145 236 181		6	{ 1.5	200	150	4	6.4	100	150	5			DP
6AN4	642 314 600		6	{ 1.3	200		13	10	100		7			T
6AN5	412 365 100		6	6	150	125	35	8	100	100	7	B7G	P	
6AN6	289 ††1 300		6						D			B7G	DDDD	
6AN7	541 230 764		6	{ 2	100		5	2	100	60	2.8	} B9A B9A B9A	TP	
6AN8	641 237 541		6	{ 2	250	100	3	0.7	100	100				TP
6AN8A	641 237 541		6	{ 6	200		13	3.3	100	60	3			TP
6AN8A	641 237 541		6	{ 2.2	200	150	9.5	6.2	100	150	6		TP	
6AN8A	641 237 541		6	{ 6	200		13	3.3	100	60	3		TP	
6AN8A	641 237 541		6	{ 2.2	200	150	9.5	6.2	100	100	6		TP	
6AQ4	412 314 600		6	2	250		6	8.5	200		8	B7G	T	
6AQ5	412 365 400		6	12.5	250	250	45	4.1	100	150	4	B7G	P	
6AQ5A	412 365 400		6	12.5	250	250	45	4.1	100	150	4	B7G	P	
6AQ6	412 398 600		6	3	250		1.0	1.2	150		1.2	B7G	DDT	
6AQ7	918 461 230		6	2	250		2.3	1.6	100		1.6	AO8	DDT	
6AQ8	741 236 410		6	2.3	250		10	5.5	100		5	B9A	TT	
6AR5	412 365 000		6	16	250	250	34	2.4	100	150	2.4	B7G	P	
6AR6	106 052 430		6	36	300	300	58	4.3	100	150	4.3	AO8	P	
6AR7	461 891 230		6	2	250		1.3	1	200		1	AO8	DDT	
6AR7GT	206 598 130	G1	6	2	250	100	7	2.5	100	100	2.5	AO8	DDP	
6AR8	115 324 166		6	3	250	250	10	4	100	100		B9A	P	
6AS4	001 080 230		6						REC			AO8	R	
6AS5	142 345 600		6	8.5	150	125	35	5.6	100	100	5	B7G	P	
6AS6	412 365 100		6	2	150	125	5.5	3.5	100	100	3.5	B7G	P	
6AS7	471 461 230		6	40	100		50	7	100			AO8	TT	
6AS8	541 238 116		6	2.2	200	150	9.5	6.2	100	150	6	B9A	DP	
6AT6	412 389 600		6	3	250		1	1.2	100		1.2	B7G	DDT	
6AT7	641 237 410		6	{ 2	250		10	5.5	100	60	5	} B9A B9A B9A	TT	
6AT8	461 237 514		6	{ 1	100		3.7	4	100		4			TP
6AT8A	461 237 514		6	{ 1	100		8.5	5.8	100	60	5.8			TP
6AT8A	461 237 514		6	{ 1.8	250	150	7.7	4.6	100	150	4		TP	
6AT8A	461 237 514		6	{ 1	100		8.5	5.8	100	60	5.8	} B9A AO8 AO8	TP	
6AU4	001 080 230		6	{ 1.8	250	150	7.7	4.6	100	100	4			R
6AU5	421 060 350		6				120		REC		40mA		AO8	P
6AU6	412 365 100		6	20	200	150	50	5.6	80	60	6	AO8	P	
6AU6	412 365 100		6	1	250	150	10	5.2	100	100	3.9	B7G	P	
6AU6A	412 365 100		6	1	250	150	10	5.2	100	100	3.9	B7G	P	
6AU7	641 227 413		3	8.5	250		10	2.2	100		2	B9A	TT	
6AU8	146 213 457		6	{ 1.2	150		8.5	4.8	100	60	5	} B9A B9A B9A	TP	
6AU8A	146 231 457		6	{ 1.5	200	125	15	7	100	100	7			TP
6AU8A	146 231 457		6	{ 1.2	150		8.5	4.9	100	60	5			TP
6AV4	802 309 100		6	{ 1.5	200	125	15	7	100	100	7		TP	
6AV4	802 309 100		6				30		REC		15mA	B7G	RR	
6AV5	421 060 350		6	22.5	250	150	57	5.9	100	100	5.8	AO8	P	
6AV6	412 389 600		6	2	250		1.2	1.6	100		1.2	B7G	DDT	
6AV8	464 231 751		6	{ 6	200		13	3.3	100	60	3	} B9A UX5	TP	
6AW4	289 130 000		6	{ 2.2	200	150	9.5	6.2	100	150	6			RR
6AW4	289 130 000		6				30		REC		15mA			RR
6AW5	208 190 310		6				30		REC		15mA	AO8	RR	
6AW6	412 365 100		6	1.8	250	150	7	5	100	150	5	B7G	P	
6AW7	149 816 230		6	0	100		1.4	1.2	100		1.2	AO3	DDT	

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
6AW8	146 231 457		6	{ 2	200		4	4	100	60	4	} B9A	TP	
6AX2	23* 232 *32	D1	6	3	200	150	13	9	100	100	9		30mA	B9A
6AX4	001 080 230		6				120		REC		35mA	AO8	R	
6AX5	029 080 310		6				60		REC		20mA	AO8	RR	
6AX6	028 190 310		6				120		REC		30mA	AO8	RR	
6AX7	641 227 413		3		250		1.2	1.6	100		1.2	B9A	TT	
6AX8	645 237 114		6	{ 1	150		18	8.5	100	60	8	} B9A	TP	
				1.2	250	100	10	4.8	100	100				
6AY3B	*8* 23* 8*1		6.3				120		REC		60mA	B9D	R	
6AY5	023 540 310	A1	6	12.5	250	250	47	4.1	100	150	4	AO8	P	
6AY8	026 589 310	G1	6	5	250	100	52	9.5	100	90	9	AO8	DDP	
6AZ5	810 230 190		6						D			B8A	DD	
6AZ6	083 113 900		6						D			B8A	DD	
6AZ8	751 324 164		6	{ 6	200		13	3.3	100	60	3	} B9A	TP	
				2.3	200	150	9.5	6	100	100	6			
6B3	080 230 808	C	6						D			B9A	D	
6B4	026 040 300		6	45	250		60	5.2	100		5	AO8	T	
6B6	026 890 310	G1	6	2	250		0.9	1.1	100		1.1	AO8	DDT	
6B7	265 891 300	G1	6	3	250	150	9	1.1	100	100	1.1	Sm7	DDP	
6B7E	265 891 300	G1	6	3	250	150	9	1.1	100	100	1.1	Sm7	DDP	
6B7S	265 891 300	G1	6	3	250	150	9	1.1	100	100	1.1	Sm7	DDP	
6B8	026 985 310	G1	6	3	250	150	10	1.3	100	100	1.3	AO8	DDP	
6B11	276 454 130		6	{ 3	100		5	2.3	100	60	2.3	} B9A	TH	
					150	125	5		100	100				
6B31	821 013 900		6.3						D			B7G	DD	
6B32	182 311 900		6.3				5		D			B7G	DD	
6BA3	*8* 23* 8*1		6.3				180		REC		35mA	B9A	R	
6BA5	402 063 510		6	2	100	100	5.5	2.1	100	100	2	B8A	P	
6BA6	412 365 100		6	1	250	100	11	4.4	100	100	4.4	B7G	P	
6BA7	641 231 106		6	2	100		18	7.0	100		7	B9A	H	
6BA8	146 231 457		6	{ 8	200		8	2.7	100	60	5	} B9A	TP	
				2.5	200	150	13	9	100	100	9			
6BA8A	146 231 457		6	{ 8	200		8	2.7	100	60	2.5	} B9A	TP	
				2.5	200	150	13	9	100	100				
6BC4	644 231 446		6	1.5	150		14.5	10	100		10.0	B8A	T	
6BC5	412 365 100		6	1.3	250	150	7.5	5.7	100	150	5.7	B7G	P	
6BC7	180 239 111		6				5		D			B9A	DDD	
6BC8	741 236 410		6	2.2	150		10.0	6.2	150		5	B9A	TT	
6BC32	412 389 600		6.3	2	250		1	1.6	100		1.2	B7G	DDT	
6BD5	421 060 350		6	12	200	200	5	5	100	100	5	AO8	P	
6BD6	412 354 100		6	3	250	100	9	2	100	100	2	B7G	P	
6BD7	641 238 09*		6	3.0	250		1.0	1.2	150		1.2	B9A	DDT	
6BD7A	641 238 09*		6.3	3	250		1	1.2	150		1.2	B9A	DDT	
6BE6	412 361 400		6	1.5	250	100	3	2.75	100			B7G	H	
6BE7	541 236 114		6	1	250	20	0.95	0.7	No Data Available			B9A	N	
6BE8	461 237 514		6	{ 1	150		18	8.5	100	60	8	} B9A	TP	
				1	250	100	10	5.2	100	100				
6BF5	412 365 400		6	7.5	100	100	36	7.5	100	90	7	B7G	P	
6BF6	412 398 600		6	9	250		9.5	1.9	100		1.9	B7G	DDT	
6BF7	642 113 470		6	0.8	100		8	4.8	100		4.8	B8D	TT	
6BG6	021 040 350	A1	6	15	250	250	75	6	No Data Available			AO8	P	

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6BG7	742 113 460		6	0.8	100		8	4.8	100		4.8	B9A	TT
6BH3	*8* 23* 8*1		6.3				180		REC		50mA	B9D	R
6BH5	541 236 000		6	2.5	250	100	6	1.7	150	100	1.7	B9A	P
6BH6	412 365 100		6	1	250	150	7.4	4.6	100	100	3.4	B7G	P
6BH8	146 321 457		6	5	150		9.5	3.3	100	60		B9A	TP
6BJ5	412 36* 500		6	1.6	200	125	15	7	100	100		B9A	TP
6BJ6	412 365 100		6	5	250	250	35	10.5	100	150	10	B7G	P
6BJ7	412 365 100		6	1	250	100	9.2	3.6	100	100	3.6	B7G	P
6BJ7	1*0 239 181		6						D			B9A	DDD
6BJ8	811 239 641		6	9	250		8	2.8	100			B9A	DDT
6BK5	604 231 450		6	5	250	250	35	8.5	100	150	8	B9A	P
6BK6	412 389 600		6	2	250		1.2	1.6	100		1.6	B7G	DDT
6BK7	741 236 410		6	1.0	100		9	6.1	100		6.0	B9A	TT
6BK7A	741 236 410		6	2	150		10.7	9	100		9	B9A	TT
6BK8	501 236 014		6		150	150	3	1.8	100	100		B9A	P
6BL4	**1 *8* 230		6				180		REC		40mA	AO8	R
6BL7	471 461 230		6	3	250		40	7	100		6	AO8	TT
6BL8	645 237 114		6	2	100		14	5	100	60	5	B9A	TP
6BM5	412 365 400		6	2	200	175	10	6.2	100	150	6	B9A	TP
6BM8	414 237 516		6	6	250	250	30	7	No Data Available			B9A	P
6BN4	142 361 400		6	1	200		3.7	2.5	100	60	2.5	B9A	TP
6BN5	441 231 615		6	16	200	200	35	6.4	100	100	6	B9A	TP
6BN6	142 354 600		6	2.2	150		9	7	100		7	B7G	T
6BN7	741 231 406		6	10.8	250	225	25	3.2	100	150	3.2	B9A	P
6BN8	811 239 641		6	1	60	60	0.5	1.0	80	60	1	B7G	P
6BP16	260 153 041		6.3	15	250		24	5.5	No Data Available			B9A	TT
6BQ5	*41 23* 6*5		6	1	125		5	2	No Data Available			B9A	TT
6BQ6	020 540 310	A1	6	3	250	150	1.6	2.5	100		3.5	B9A	DDT
6BQ7	741 236 410		6	7.3	250	250	50	26	No Data Available			B9A	P
6BQ7A	741 236 410		6				48	11.3	100	150	10	B9A	P
6BR7	041 230 651		6	22.5	250	150	57	5.9	100	100	5	AO8	P
6BR8	461 237 514		6	2	150		9	6	150		6	B9A	TT
6BS3	*8* 23* 8*1		6.3	2	150		9	6	100		5	B9A	TT
6BS4	642 314 600		6	3	250	100	2	1.2	100	100	1.2	B9A	P
6BS5	541 236 **1		6	3	250	100	2	1.2	100	100	1.2	B9A	P
6BS7	001 230 651	G1	6	3	250	100	2	1.2	100	100	1.2	B9A	P
6BS8	641 237 410		6	2.2	150		10	7.2	100		7	B9A	TT
6BT4	280 009 130		6				30		REC		15mA	B8A	RR
6BT6	412 389 600		6	3	250		1	1.2	150		1.2	B7G	DDT
6BT8	891 236 541		6	2.2	200	150	9.5	6.2	100	100		B9A	DDP
6BU6	412 389 600		6	9	150		9.5	1.9	100		1.9	B7G	DDT
6BU8	157 231 461		6		100	60	2.2	1.5	100	60		B9A	PP
6BV7	865 239 141		6	5	250	250	38	10	100	150	10	B9A	DDP
6BV8	146 239 118		6	3.7	200		11	5.6	100			B9A	DDT
6BW4	800 230 901		6				30		REC		15mA	B9A	RR
6BW6	*41 230 651		6	13	300	225	34	3.7	100	150	3.7	B9A	P
6BW7	141 230 651		6	2.4	250	250	9.7	8.2	100	100	7	B9A	P
6BW8	918 234 156		6.3	1.1	250	100	10	5.2	100	100		B9A	DDP

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
6BX4	802 309 100		6				30			REC			B7G	RR
6BX6	141 230 651		6	3	200	200	8	7.2		100	100	7	B9A	P
6BX7	471 461 230		6	16.4	250		42	7.6	100		6		AO8	TT
6BX8	641 237 410		6	5	150		11	7.5	125		7		B9A	TT
6BY5	120 980 310		6				60		REC		20mA		AO8	RR
6BY6	412 365 400		6	2.5	250	100	6.5	2.4	100	100	2		B/G	H
6BY7	141 230 651		6	2	250	100	10	6	150	10	5		B9A	P
6BY8	411 238 651		6.3	1.1	100	100	5	3.9	100	150	10		B9A	DP
6BZ6	412 365 100		6	1	100	125	14	8	125	125	7		B7G	P
6BZ7	741 236 410		6	2.2	150		10	6.8	100		6		B9A	TT
6BZ8	641 237 410		6	1	150		10	8	125		8		B9A	TT
6C2C	026 447 300		6.3	8	250		9	2.6	100				AO8	TT
6C3M	026 040 300		2	2.5	150		1.5	1.3	100		1.3		AO8	T
6C4	602 364 100		6	8.5	250		10.5	2.2	100		3		B7G	T
6C4C	026 040 300		6.3		250		60	5.2	100				AO8	T
6C5	026 040 310		6	8	250		8	2	100		2		AO8	T
6C6	265 113 000	G1	6	3	250	100	2	1.2	100	100	1.2		UX6	P
6C7	260 891 300	G1	6	9	250		4.5	1.2	100		1.2		Sm7	DDT
6C8	026 147 310	G1	6	4.5	250		3.2	1.6	100		1.6		AO8	TT
6C9	276 454 130		6	2.5	100		5	3	100	60	3		B8A	TH
6C10	276 454 130		6	2.5	150	100	8	2.5	100	100	2.5		B8A	TH
6C12	541 237 164		6	2	100		5	2.2	100	60	2.8		B8A	TH
6C16	645 237 114		6	2	100		14	5	100	60			B9A	TP
6C31	027 546 310	G1	6	3	100	175	10	6.2	100	100			B9A	TP
6C31	412 344 600		6.3	4	100		7	3.4	100	60	5		AO8	TH
6CA4	8*1 23* 9**		6	3	250	100	5	2.8	100	100	3.1		B7G	T
6CA5	142 345 600		6	4.5	150		60	12	REC		20mA		B9A	RR
6CA7	126 540 310		6	14.5	250	250	57	8.5	100	100	9		B7G	P
6CB5	521 441 350	A	6.3	30	175	175	90	8.8	100				AO8	P
6CB6	412 365 100		6	1	150	125	13	8	100	150	6		B7G	P
6CB6A	412 365 100		6.3	2	200	150	9.5	6.2	100	100			B7G	P
6CC10	461 471 230		6.3	9	250		6.5	2.2	100		3		B8A	TT
6CC31	672 344 100		6.3		200		6	3	100		4		B7G	TT
6CC40	641 237 410		6.3	8.5	250		10.5	2.2	100		3		B9A	TT
6CC41	741 236 410		6.3	1.5	250		2.3	2	100				B9A	TT
6CC42	214 607 413		6.3	2	150		8	5.2	100		5.5		B9A	TT
6CC43	641 237 410		6.3	2.3	250		10	5.9	100				B9A	TT
6CD6	021 040 350	A1	6	30	200	175	75	7.7	100	100	7		AO8	P
6CD6G	021 040 350		6.3	30	200	150	64	6.7	100	100	9		AO8	P
6CE5	412 365 100		6	1	200	125	11	7.6	125	125	7.6		B7G	P
6CF5	402 365 100		6.3		150	125	11	7.6	100	100			B7G	P
6CF6	412 365 100		6	1	200	125	12	7.8	100	150	6		B7G	P
6CF8	501 236 014		6	2	250	150	3	1.85	100	100			B9A	P
6CG6	412 365 100		6	8	250	150	9	2	100	100			B7G	P
6CG7	641 237 410		6	8	250		9	2.6	100		3		B9A	TT
6CG8	461 237 514		6	2	100	150	8.5	5.8	100	60	5.9		B9A	TP
					250		7.7	4.6	100	150	4		B9A	TP

VALVE	SELECTOR SWITCH No.	T.C.	Vt	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6CG8A	461 237 514		6	}	100		8.5	5.8	100	60		} B9A	TP
6CH3	080 230 801		6.3		250	150	7.7	4.6	100	100			
6CH6	041 230 651		6	4.5	250	250	40	11	100	150	9	B9A	R
6CH7	741 236 410		6	2.2	150		10	6.8	150		6.8	B9A	P
6CH8	175 321 446		6	}	200		13	3.3	100	60	4.9	} B9A	TP
6CH40	541 237 464		6.3		200	150	9.5	6.3	100	150	5		
				}	100		4.5		100	60		} B9A	TH
					250	100	10	3.2	100	100			
6CJ5	260 054 130		6	2.5	250	100	6	2.2	100	100	2.2	B8A	P
6CJ6	041 230 051	A1	6		200	200	45	6.2	No Data Available			B9A	P
6CK4	424 060 310		6	28	250		40	5.5	No Data Available			AO8	T
6CK5	261 054 130		6	7	250	250	36	10	100	150	8	B8A	P
6CK6	541 231 600		6	5.5	250	250	36	10	100	150	9	B9A	P
6CL5	521 441 350	A1	6.3	40	150	150	80	6.3	100	100		AO8	P
6CL6	145 236 154		6	3	250	150	30	11	No Data Available			B9A	P
6CL8	461 237 514		6	}	150		15	8	100	60	8	} B9A	TP
					1.0	150	125	12	5.8	100	100		
6CL8A	461 237 514		6	}	150		15	8	100	60	8	} B9A	TP
					0.8	150	125	12	5.8	100	100		
6CM4	641 234 146		6		200		12	14	No Data Available			B9A	T
6CM6	504 234 106		6	12.5	250	250	45	4.1	100	100	4	B9A	P
6CM7	701 236 441		6	}	200		5	2	100	60	2.8	} B9A	TT
					7	250		20	4.4	100	100		
6CM8	641 237 514		6	}	250		1.8	2	100	60		} B9A	TP
					2	200	150	9.5	6.2	100	100		
6CN5	026 540 310		6.3	18	350	250	66	5.2	No Data Available			AO8	P
6CN6	120 540 310		6	7	250	250	100	14.3	100	150	10	AO8	P
6CN7	981 331 462		3	3	250		1	1.2	100		1.3	B7G	DDT
6CQ4	**1 080 230		6.3				180		REC		30mA	AO8	R
6CQ6	412 361 500		6	2.5	250	200	8	2.5	100	150	2.5	B7G	P
6CQ8	645 237 114		6	}	150		15	8	100		8	} B9A	TP
					0.8	150	125	12	5.8	125	125		
6CQ8A	645 237 114		6	}	150		15	8	100	60	8	} B9A	TP
					0.8	150	125	12	5.8	125	125		
6CR4	414 464 234		6.3	1	150		16	6	No Data Available			B9A	T
6CR5	154 231 541	A1	6.3	22.5	250	150	65	6	100	100		B9A	P
6CR6	182 365 400		6	2	250	100	9.5	2	250	100	1.9	B7G	DT
6CR8	641 237 514		6	}	150		12	4	100	60	4	} B9A	TP
					2	150	125	13	7.7	100	100		
6CS5	514 234 1*6		6	10	200	125	47	8	100	100		B9A	P
6CS6	412 365 100		6	1	100	30	1	1.1	No Data Available			B7G	H
6CS7	604 237 411		6	}	250		10.5	2.2	100		2	} B9A	TT
					8.5	250		19	4.5	100			
6CS8	641 237 514		6	}	150		12	4	100	60	4	} B9A	TP
					2	150	125	13	7.7	100	100		
6CT7	268 154 130		6	0.9	150	100	5	1.8	100	100	1.8	B8A	DP
6CU5	142 345 600		6	8	125	100	50	7.5	125	100	7.5	B8G	P
6CU6	020 540 310	A1	6	22.5	250	150	57	5.5	100	100	6	AO8	P
6CU7	276 454 130		6	}	100		5	2.2	100	60	2.8	} B8A	TH
					2	250	100	8	2	100	100		
6CU8	175 231 446		6	}	200		13	3.3	100	60	3	} B9A	TP
					6	200	150	9.5	6.2	100	150		
6CV7	264 089 130		6	3	250		1	1.3	150		1.3	B8A	DDT
6CW5	*41 23* 6*5		6	12.5	200	175	70	10	100	100	9	B9A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6CW7	147 234 116		6	1.5	90		12	6	100		6	B9A	TT
6CX7	641 237 411		6	2	150		9	6.4	100		6	B9A	TT
6CX8	146 231 457		6	{ 1.5	150		9	4.6	100	60	4.6	} B9A	TP
6CY5	412 365 100		6	2	200	125	24	10	100	100			
6CY7	714 236 411		6	{ 1	150	75	10	8	100	80		} B9A	TT
				3	250		1.2	1.3	100		1.5		
				18.5	150		30	5.4	100				
6CZ5	504 234 1*6		6	14	250	250	46	4.8	100	100		B9A	P
6D1	123 000 000	D1	6						D			B3G	D
6D2	192 310 800		6						D			B7G	RR
6D3	812 380 000		6						D			B7G	R
6D5	026 040 310		6	40	300		31	2.1	100		2.1	AO8	T
6D6	265 113 000	G1	6	3	250	100	2	1.2	100	100	1.2	Sm7	P
6D7	265 101 300		6	3	250	100	2	12.2	100	100		AO8	P
6D8	027 546 310	G1	6	{ 3	150		4.2		100	60		} AO8	H
				250	100	3.5			150	100			
6DA4	**1 080 230		6				120		REC		30mA	AO8	R
6DA6	041 230 651		6	2	250	100	9	3.6	100	100	3.6	B9A	P
6DA7	604 237 411		6	{ 8	250		9	2.6	100			} B9A	TT
				17.5	150		40	5.7	100				
6DB5	514 234 1*6		6	9.6	200	125	46	8	100	100		B9A	P
6DB6	412 365 100		6	1	150	150	5.8	2	100	100		B7G	P
6DC6	412 365 100		6	2.2	200	150	9.5	5.5	150	100	5	B7G	P
6DC8	541 236 891		6	2	250	100	9	3.8	100	100		B9A	DDP
6DDHV1	145 237 864		6	{ 2	250		90	1.6	100	50		} B9A	DTP
				1	250	100	9	3.5	100	100			
6DE4	001 080 230		6				120		REC		30mA	AO8	R
6DE6	412 365 100		6	1.1	150	125	16	8	100	100	8	B7G	P
6DE7	744 236 411		6	{ 17.5	150		32	6.5	100			} B9A	TT
				11	250		5.5	2	100				
6DG6	026 540 310		6	7.5	200	125	47	8	100	150		AO8	P
6DG7	041 230 651		6	20	250	100	11	4.4	100	100	5	B9A	P
6DJ8	641 237 411		6	1.3	90		15	12.5	No Data Available			B9A	TT
6DK6	412 365 100		6	0.9	150	125	12	9.8	100	100	9.5	B7G	P
6DL4	414 234 464		6		150		12.5	14	No Data Available			B9A	T
6DL5	412 365 400		6	7.3	250	225	26	5.5	100	100		B7G	P
6DM4	001 080 230		6				180		REC		35	AO8	R
6DN6	021 040 350	A1	6	18	200	125	70	9	100	100		AO8	P
6DN7	461 471 230		6	9.5	250		34	7.4	100			AO8	TT
6DQ5	421 541 350	A1	6	17.5	150	100	10.5		No Data Available			AO8	P
6DQ6	020 540 310	A1	6	22.5	250	150	75	6.6	125	100		AO8	P
6DQ8	461 237 141		6.3	{ 1.7	200		3	11	100	60	4	} B9A	TP
				2.1	200	175	18	6.5	100	100			
6DR4	123 000 000	D1	6						D			B3G	D
6DR6	*41 23* *51		6	23	200	175	45	6.6	100	100		B9A	P
6DR7	644 237 411		6	{ 17.5	150		35	6.5	100			} B9A	TT
				3	250		1.4	1.6	100				
6DR8	541 236 891		6		12	12	45		No Data Available			B9A	DDP
6DS5	412 365 100		6	8.5	250	200	29	5.8	100	100		B7G	P
6DS8	541 237 564		6	{ 12			0.7	1.4				} B9A	TP
				12	12		0.4	0.7	No Data Available				
6DT5	504 230 1*6		6.3	16.5	250	250	38	6.5	100	100		B9A	P
6DT6	412 365 100		6.3	2.2	150	100	11	0.8	150	100	2	B7G	P
6DT8	741 236 410		6.3	2.5	250		10	5.5	100		4	B9A	TT
6DW4	*8* 23* 8*1		6.3				180		REC		40mA	B9D	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
6DW5	504 234 106		6.3	22.5	200	150	55	5.5	100	100		B9A	P
6DX8	461 237 145		6.3	{ 1.7 2	200 170		3 18	4 10.4	100 100		1.3 8	B9A	TP
6DY7	041 230 605		6.3	12.5	250	150	50	6	100	100		B9A	P
6DZ4	642 314 600		6.3	0.3	75		15	6.7	80		7.5	B7G	T
6DZ7	426 517 310		6.3	7.3	250	250	48	11.3	No Data Available			AO8	PP
6DZ8	414 237 516		6	{	150 150		0.8 45	1.4 7.5	100 100	60	1.4	B9A	TP
6E4	541 237 464		6.3	{ 2.6 27.5	200 200		5.4 3.7		100 100	60 100		B9A	TH
6E6	274 146 300		6	2	250		18	1.7	100		1.7	UX7	TT
6E7	265 101 300	G1	6	2	250	100	8.2	1.6	100	100	1.6	Sm7	P
6E8G	027 546 310	G1	6	{ 4.8 2.3	150 250	100	3.3 2.3	2.8 3.5	100 100	60	1.9	AO8	TH
6E102	602 301 450		6.3	7	250	250	72	15	No Data Available			F8	P
6EA5	412 365 100		6.3	1	250	150	10	8	No Data Available			B7G	P
6EA7	461 471 230		6.3	25	200		48	6.5	No Data Available			AO8	TT
6EA8	645 237 114		6.3	{ 1 1	150 125	125	18 12	8.5 6.4	100 100	60	6	B9A	TP
6EB5	182 310 900		6.3				7		D			B7G	DD
6EB8	146 231 457		6	{ 2 2	250 200		2 25	2.7 12	100 100	60 60	2.5	B9A	TP
6EF6	026 540 310		6.3	18	250	250	50	5	No Data Available			AO8	P
6EH5	142 345 600		6	3.2	100	125	42	14.6	100	125		B7G	P
6EH6	412 365 100		6	1	250	150	7.4	4.6	100	150	4	B7G	P
6EH7	141 230 651		6.3	2	200	90	12	12.5	No Data Available			B9A	P
6EH8	146 231 457		6	{ 1 1	150 150		13 12	7.5 6	100 100	60 100	7.5 6	B9A	TP
6EJ7	141 230 651		6.3	2.5	200	200	10	15	No Data Available			B9A	P
6EL7	141 230 651		6.3	1.8	200	175	10	8.8	100	100		B9A	P
6EM5	504 234 106		6	18	250	250	35	5.1	100	100		B9A	P
6EM7	471 461 230		6.3	{ 3 20	250 150		1.4 50	1.6 7.2	100 100			AO8	TT
6EQ7	141 235 680		6.3		100	100	9	3.9	100	100		B9A	DP
6ER5	142 361 *10		6.3	1.2	200		10	10.5	100			B7G	T
6ES5	142 360 100		6.3	1	200		15	9.5	100			B7G	P
6ES6	412 365 100		6.3	0.7	12	12			No Data Available			B9A	P
6ES8	641 237 410		6.3	1.2	90		15	12.5	100			B9A	TT
6ET6	412 365 100		6.3	1	12	12	4.8	3	No Data Available			B7G	P
6ET7	189 231 456		6.3		200	150	25	11.5	No Data Available			B9A	DDP
6EU7	230 146 741		6.3	2	250		1.2	1.6	100			B9A	TT
6EU8	746 231 415		6	{ 1 1	150 150		18 12	8.5 6.4	100 100	60 100		B9A	TP
6EV5	412 365 100		6.3		200	80	11.5	8.8	100	80		B7G	P
6EV6	641 237 410		6.3	2	250		9.2	5.2	100			B9A	TT
6EV7	641 237 410		6.3	2.0	250		9.2	5.2	100		5.0	B9A	TT
6EW6	412 365 100		6	0.8	150	125	11	14	No Data Available			B7G	P
6EW7	744 236 411		6.3	{ 17.5 11	150 250		45 5.5	7.5 2	100 100			B9A	TT
6EX4	802 309 100		6				30		REC		15mA	B9A	RR
6EX6	021 040 350	A1	6.3		200	150	67	7.7	100	100		AO8	P
6EY6	026 540 310		6.3	17.5	250	250	44	4.4	No Data Available			AO8	P
6EZ5	026 540 310		6.3	20	250	250	43	4.1	No Data Available			B8A	P
6EZ8	141 237 464		6.3	1	150		4.2	4.2	100		4.2	B9A	TTT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6F1	261 514 130		6	1.8	200	200	10	9	100	60	8	B8A	P
6F5	020 600 310	G1	6	2	250		0.9	1.5	100		1.5	AO8	T
6F6	026 540 310		6	16.5	250	250	34	2.5	100	150	2.5	AO8	P
6F7	275 641 300	G1	6	3	100		3.5	0.5	100	60	0.5	Sm7	TP
					100	100	6.3	1	100	100	1		
6F7B	275 641 300	G1	6		3	100		3.5	0.5	100	60		
6F7E	275 641 300	G1	6	3	100	100	6.3	1	100	100	1		
				3	100		3.5	0.5	100	60	0.5	UX7	TP
				3	100	100	6.3	1.05	100	100	1.05		
6F7M	275 641 300	G1	6	3	100		3.5	0.5	100	60	0.5	UX7	TP
					100	100	6.3	1	100	100	1		
6F8	027 146 310	G1	6	8	250		9	2.6	100		2.6	AO8	TT
6F10	021 415 360		6.3	2	300	150	10	9	100	100		AO8	P
6F11	260 154 130		6	1.8	250	100	4.4	2.2	100	100	2.2	B8A	P
ξ6F12	412 361 500		6	2	250	250	10	7.5	100	150	5	B7G	P
					1.5	200	150	4	6.4	100	150		
6F13	260 154 130		6	1.8	200	200	10	9	150	150	8	B8A	P
6F14	260 154 130		6	1.25	150	150	28	10.6	100	100	8	B8A	P
6F15	261 154 130		6	2.5	250	100	7	2.3	100	100	2.3	B8A	P
6F16	261 154 130		6	2.5	250	100	6	2.2	100	100	2.2	B8A	P
6F17	412 361 500		6	5	100	100	12.5	4.0	100	100		B7G	P
6F18	141 230 651		6	1.3	200	100	12	4.5	125	100		B9A	P
6F19	141 230 651		6	2	250	100	10	6	150	100	5	B9A	P
6F20	141 230 651		6.3	2	200	175	10	6	100	100		B9A	P
6F21	412 361 500		6	2.5	250	200	7.8	2.5	100	100		B7G	P
6F22	501 236 014		6	2	250	150	3	1.8	100	100		B9A	P
6F23	141 230 650		6.3	1.9	150	150	10	9.2	100	100		B9A	P
6F24	141 230 651		6.3	1.9	150	150	10	15	No Data Available			B9A	P
6F25	141 230 651		6.3	1.5	200	100	11.5	12.5	No Data Available			B9A	P
6F26	141 230 651		6.3	2	250	100	10	6	100	100	6	B9A	P
6F28	*41 234 650		6.3	2.9	200	200	10	12.5	100	100		B9A	P
6F29	141 230 651		6.3	2	200	90	12	12.5	No Data Available			B9A	P
6F30	141 230 651		6.3	2.5	200	200	10	15.4	No Data Available			B9A	P
6F31	412 365 100		6.3	1	250	100	11	4.2	100	100		B7G	P
6F32	412 365 100		6.3	3	200	125	8	4.6	100	100		B7G	P
6F32	216 510 030	G1	6	4.5	200	200	5.1	3	100	150	3	MO8	P
6F32V	412 365 000		6.3	3	150	150	7	4.3	100	100		B7G	P
6F33	412 361 500		6.3	2	125	125	5.2	3.5	100	100	3	B7G	P
6F35	412 365 100		6.3		40	30	2.7	2.7	No Data Available			B7G	P
6F36	412 365 100		6.3		300	150	10	9	No Data Available			B7G	P
6F40	111 231 654		6.3	2	250	150	3	2	100	100		B9A	P
6F41	141 230 651		6.3	2.0	150	150	10	7.4	100	100	6	B9A	P
6F60	041 230 665		6.3	23	250	200	55	5	100	100		B9A	P
6F80	541 231 600		6.3		200	200	36	10	100	100		B9A	P
6FA7	841 236 541		6.3	0	100	100	2.2	1.9	100	100	1.9	B9A	DPP
					100	100	3.8	3.2	100	100	3.2		
6FC7	146 234 017		6.3	1.2	90		15	12	No Data Available			B9A	TT
6FD6	412 365 100		6.3		12	12		1.4	No Data Available			B7G	P
6FD7	644 237 411		6.3	17.5	150		45	7.5	100			B9A	TT
					250		6	1.6	100		1.6		
6FD12	541 236 891		6.3	2	250	100	9	3.8	100	100		B9A	DDP
6FE5	026 540 310		6.3	12.5	100	100	94	9.5	No Data Available			AO8	P
6FG5	412 365 100		6.3	0.2	250	250	9	9.5	No Data Available			B7G	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE	
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
6FG7	461 237 514		6.3	{ 1	125		13	7.5	100	60	7	} B9A	TP	
6FH5	142 360 100		6.3	{ 1	125	125	11	6	100	100	6		} B7G	T
6FH6	020 540 310	A1	6.3	1	150		11	9	100					AO3
6FJ8	210 541 380	A1	6.3	22.5	250	150	75	6.6	100	100		AO3	DP	
6FLD12	541 236 891		19	2	250	100	9	3.8	100	100		B3A	DDP	
6FM8	181 239 146		6.3	3	250		1	1.2	100			B3A	DDT	
6FN5	521 441 350		6.3	22.5	200	150	100	10	No Data Available			B3A	P	
6FQ5	142 360 100		6.3	1.2	150		11	11	No Data Available			B7G	T	
6FQ7	741 236 410		6.3	8	250		9	2.6	100			B9A	TT	
6FR7	644 237 411		6.3	{ 3	250		1.4	6.8	100		1.5	} B9A	TT	
6FS5	412 365 100		6.3	{ 20	150		50	5.4	100				B7G	P
6FV6	402 365 100		6.3	0.2	300	150	9	10	No Data Available			B7G	P	
6FV8	461 237 514		6	{ 1	150	75	10	8	100	80	8	} B9A	P	
6FW5	421 060 350		6	{ 1	150	125	14	8	100	60	8		} B9A	TP
6FW8	741 236 410		6.3	22.5	250	150	65	7.3	100	100	6.5	AO8		P
6FX4	802 309 100		6.3	1.2	100		15	13	No Data Available			B9A	TT	
6FY5	142 360 100		6				30		REC		15mA	B7G	RR	
6FY8	414 237 516		6.3	1	150		11	13	No Data Available			B9A	T	
6G6	026 540 310		6	{ 1.5	125		2.5	2	100	60		} B9A	TP	
6G7	026 985 310	G1	6	{ 13.5	125	125	50	7	100	100			} AO8	P
6G8	026 985 310	G1	6	9	200	175	15	2.3	100	100	2.3	AO8		P
6GA4	026 040 310		6	3	250	125	10	1.3	100	100	1.3	AO8	DDP	
6GA8	641 237 410		6	3	250	125	9	1.1	100	100	1.1	AO8	DDP	
6GA8	426 040 310		6.3	18.5	250		50	7	100			AO3	T	
6GB3A	020 540 310	A1	6.3	7.7	100	100	100	14	100			B9A	TT	
6GB5	441 235 51*	A1	6.3	20	150	150	70	10	100	100	8.2	AO8	T	
6GB6	020 540 310	A1	6.3	22.5	250	150	6.5	6	100	100		B9A	P	
6GB7	020 540 310	A1	6.3	7.7	100	100	100	14	No Data Available			AO8	P	
6GB9	020 540 310	A1	6.3	22.5	250	150	75	6.6	125	100		AO8	P	
6GC5	514 234 156		6.3	7.5	100	100	50	8	100	100		B9D	P	
6GC6	021 540 350	A1	6.3	22.5	250	150	75	6.6	100	100		AO8	P	
6GD7	481 238 715		6.3	{ 1	125		15	10	100			} B9A	TP	
6GE8	514 236 147		6.3	{ 1	175	150	10	12	100	100	9		} B9A	TP
6GF7	141 237 064		6.3	{ 21	150		35	5	100	60		} B9A		TP
6GG6	802 300 190		6	{ 2	150	150	5.5	3.2	100	100			} B9D	TT
6GH8	645 237 114		6.3	{ 3	250		1.4	1.6	100			} B9D		TT
6GJ5	541 234 5**	A1	6.3	{ 20	150		50	7.2	100				} F8	RR
6GJ7	141 236 574		6	1	150		30		REC		15mA	} B9A		TP
6GJ8	645 237 114		6	{ 1	150	125	13.5	8.5	100	60			} B9A	TP
6GK5	142 360 100		6.3	{ 1	150	125	12	7.5	100	100		} B9D		P
6GK6	141 230 651		6.3	{ 1.2	200	200	10	11	100	100	7.8		} B9A	TP
6GK17	001 080 230		6.3	{ 1	150		13.5	8.5	100	60		} B9A		TP
6GM5	500 234 106		6.3	{ 1	125	125	12	7.5	100	100			} B7G	T
			6.3	1	150		11.5	15	No Data Available			B7G		T
			6.3	7.3	250	250	48	11.3	100	100		B9A	P	
			6.3				120		REC		30mA	AO8	R	
			6.3	10	300	300	60	10.2	No Data Available			B9A	P	

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
6GM6	412 365 100		6.3	56	150	25	14	13	No Data Available			B7G	P
6GM8	641 237 410		6.3	0.3	12		2.4	4.6	No Data Available			B9A	TT
6GN6	412 365 800		6.3	68	250	100	11	4.4	100	100		B7G	DP
6GN8	146 231 457		6.3	{ 2 3	250		2	2.7	100	60	3	} B9A	TP
6GQ7	1†* 239 181		6.3		200	150	25	11.5	100	100			
6GS8	156 231 471		6.3		100	75	2	1.2	100	75		B9A	DDD
6GT5	541 234 5*6		6.3	42	250	150	70	7.1	100	100		B9A	PP
6GU5	412 365 100		6.3	0.4	150	150	9	15	100	100		B9D	P
									100	100		B7G	P
6GV7	657 231 414		6.3	{ 1.5 0.6	100		14	5.5	100	60	5	} B9A	TP
					150	150	11	11	100	100	9		
6GV8	641 237 514		6.3	{ 15 1	100		5	6.5	100	60		} B9A	TP
					200	175	41	7.5	100	100			
6GW5	642 314 100		6.3	1	150		13	15				B7G	T
6GW8	415 237 146		6.3	{ 1.7 7	250		1.2	1.6	100	60	1.5	} B9A	TP
					250	250	36	10	100	100			
6GX6	412 365 100		6.3		150	100	3.7	3.7	100	100		B7G	P
6GY6	412 365 100		6.3		150	100	3.7	3.7	100	100		B7G	P
6H1	412 360 500		6	1.8	250	100		2.1	100	100	2	B7G	H
6H4	020 800 310		6						D			AO8	D
6H6	029 180 310		6						D		4	AO8	DD
6H7C	026 447 310		6.3	5	250		3	1.6	100			AO8	TT
6H7G	126 447 310		6.3		300		35	3.2	100			AO8	TT
6H8C	461 471 230		6.3	8	250		9	3	100			AO8	TT
6H8G	026 985 310		6	2	250	125	8.5	2.4	100	100	2.4	AO8	DDP
6H8MG	026 985 310	G1	6	2	250	125	6	1.8	100	100	1.8	AO8	DDP
6H9C	461 471 230	G1	6.3	2	250		2.2	1.6	100			AO8	TT
6H10C	064 471 230		6.3	2	250		2	1.3	100		1.3	AO8	TT
6H13C	461 471 230		6.3	30	90		80	5	No Data Available			AO8	TT
6H31	412 365 100		6.3		250	100	3		100	100		B7G	H
6HA5	412 360 100		6.3	1	150		11.5	14.5	No Data Available			B7G	T
6HB6	141 230 651		6.3	33	250	125	40	24	No Data Available			B9A	P
6HB7	141 236 574		6.3	{ 1 1	150		18	8.5				} B9A	TP
					125	125	12	6.4	100	100			
6HC8	414 237 516		6.3	{ 3 18	250		1.4	2	100			} B9A	TP
					250	250	38	5.1	100	100			
6HF8	146 231 457		6.3	{ 2 2	200		4	4	100			} B9A	TP
					200	125	25	12.5	100	100			
6HG8	141 234 675		6.3	{ 3 1.2	100		14	6	100		6.5	} B9A	TP
					200	150	10	12	100	100			
6CJ8	145 236 181		6.3	6	150	125	11.5	9.3	100	100		B9A	DP
6HK8	641 237 410		6.3	1	90		8.5	8	100		8	B9A	TT
6HM5	412 360 100		6.3	1.2	150		12.5	14.5	No Data Available			B7G	T
6HQ5	412 361 100		6.3	1	150		11.5	15	100		12	B7G	T
6HR6	412 365 100		6.3	1.2	200	100	13.2	8.5	100	100		B7G	P
6HS6	412 365 100		6.3	0.8	150	75	8.8	9.5	100	100		B7G	P
6HS8	157 231 461		6.3		100	75	2	0.4	100	75	0.4	B9A	PP
6HU8	546 234 175		6.3	9	250	250	24	6	100	100		B9A	PP
6HW8	165 234 161		6.3	3.5	250	250	13	4	100	100		B9A	P
6HZ6	412 387 100		6.3	1.1	150	100	3.2	3.4	100		3	B7G	P
6HZ8	146 231 457		6.3	{ 2 2	200		3.5	4	100			} B9A	TP
					250	175	29	12.6	100	100			
6J4	412 344 600		6	1.5	150		15	12	100		10	B7G	T
6J5	026 040 310		6	8	250		9	2.6	100		2.6	AO8	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6J6	762 344 100		6	{ 3 0.8	150 100		5 8.5	4.5 5.3	100 100		5.8 5.8	B7G	TT
6J7	026 510 310	G1	6	3	250	100	2	1.2	100	100	1.3	AO8	P
6J8	027 546 310	G1	6.3	{ 3 3 2	100 100 150	100	3 1.3 1	1.6 1.2 1.5	100 100 100	100	1.6 1.5 1.1	AO8	TH
6JA8	146 231 457		6.3	{ 2 1.5	150 150		1 18	1.5 13	100 100	100	100	B9A	TP
6JB6	541 234 51*	A1	6.3	22.5	250	150	70	7.1	100	100		B9D	P
6JB8	645 237 114		6	{ 8.5 3	250 250		10.5 3	2.2 1.6	100 100			B9A	TP
6JC8	145 237 146		6.3	{ 1 1	150 150		12 9	6.5 5.5	100 100			B9A	TP
6JE6	541 234 51*	A1	6.3	150	100	100	100	10	No Data Available	100		B9D	P
6JE8	146 231 457		6.3	{ 2 2	200 200		4.5 22	4.2 12	100 100	100		B9A	TP
6JF8	210 541 380	A1	6.3	22.5	250	150	75	6.6	100	100		AO8	DP
6JG6	541 231 5*6		6.3		150	100	80	10	No Data Available			B9D	P
6JH6	412 387 100		6.3	1	125	125	14	8	100		6	B7G	P
6JH8	115 324 166		6.3		250	250	14	4.4	100	100		B9A	P
6JK8	741 236 410		6.3	{ 1 1.2	100 150		5.3 10	6.8 13	100 100		6	B9A	TT
6JT6	541 231 5*6		6.3	22.5	250	150	70	7.1	100	100		B9D	P
6JV8	146 231 457		6.3	{ 2 2.9	200 200	200	4 22	4 11.5	100 100	100	4 10	B9A	TP
6K5	026 000 310	G1	6	3	250		1.1	1.4	200		1.4	AO8	T
6K6	026 540 310		6	18	250	250	32	2.3	100	150	2.3	AO8	P
6K7	026 510 310	G1	6		250	100	10.5	1.5	100	100	1.6	AO8	P
6K8	027 546 310	G1	6	{ 1 3	100 250	100	8 4	2.5 1.2	100 100	60 100	3 1.5	AO8	TH
6K25	026 040 310		6		100		30	2kΩ	No Data Available			AO8	Thy
6KM8	668 231 456		6.3		100	100	4.2	3.4	100	100	3.4	B9A	DP
6KR8	146 231 457		6.3	{ 1 2	100 200	100	15 19.5	10.4 20	100 80	60 60		B9A	TP
6KY8A	141 237 564		6.3	{ 3 10	250 150	100	1.4 39	1.6 8.4	100 100	60 100	1.6	B9D	TP
6KZ8	641 237 514		6.3	{ 1.0 1.0	150 150	150	13.5 12	8.5 7.5	100 100	60 100	7	B9A	TP
6L1	274 164 130		6	8.6	200		10	2.8	100		2	B8A	TT
6L5G	026 040 310		6	9	250		8	1.9	100		1.9	AO8	T
6L6	026 540 310		6	18	350	250	54	5.2	100	150	5.2	AO8	P
6L7	026 540 310	G1	6	3	250	100	6.3	1.1	100	100	1.1	AO8	H
6L10	120 415 360		6.3	3	300	150	30	11	100	100		B8A	P
6L12	741 236 410		6	2.3	250		10	5.9	100		5	B9A	TT
6L13	741 226 413		6	2	250		1.2	1.6	100		1.6	B9A	TT
6L15	147 234 116		6.3	1.2	90		15	9	100		9	B9A	TT
6L16	146 234 107		6.3	1.5	90		12	6.2	80		6.2	B9A	TT
6L18	260 064 130		6	13.3	250		12	5.5	80		7	B8A	T
6L19	274 164 130		6	1.8	200		5	3.1	150		3.1	B8A	TT
6L31	412 365 400		6.3	12.5	250	250	45	4.1	100	100	4	B7G	P
6L34	412 314 600		6	1.5	250		10	9	150		7	B7G	T
6L41	601 235 144		6.3	17.2	250	250	45	7	100	100		B9A	P
6L43	145 236 154		6.3	3	300	150	30	11	No Data Available			B9A	P
6L50	214 451 130	A1	6.3	12.6	200	250	70	5	No Data Available			B9A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6L50V	215 445 113	A1	6.3	25	400	250	30	3.5	100	100		B9A	P
6LD3	264 098 130		6	1.9	250		0.85	1.95	150		1.9	B8A	DDT
6LD12	†91 238 146		6.3	1.0	100		0.8	1.45	100		1.4	B9A	DDDT
6LD13	641 238 09*		6	1.9	250		0.85	1.2	100			B9A	DDT
6LD20	264 098 130		6	5.9	250		5	2.3	100		3	B8A	DDT
6LE8	611 230 154		6.3	2.5	100	100	8	5.8	100	100	5.8	B9A	PP
6LF8	146 231 456		6.3	2.5	200		4	4	100			B9A	TP
6LFD12	541 236 891	19	2		100	150	20	11	100	100	11		
6LR8	141 236 564		6.3	4	250		9	3.8	100	100		B9A	DDP
6M3	*28 0*0 *30	6	10		150	125	56	9.3	100	100	7.8		
			6						D			AO8	R
6M5	541 230 600		6	7	250	250	36	10	100	100	100	B9A	P
6M6	026 540 310		6	6	250	250	36	9.5	100	150	8	AO8	P
6M7	026 510 310	G1	6	2.5	250	125	10.5	3.4	100	100	3.2	AO8	P
6M8	137 546 280	G1	6	1	100		0.5	1.1	100	60	1.1	AO8	DTP
			3		100	100	8.5	1.9	100	100	1.9		
6MD3	802 380 100		6.3				10		REC		5mA	B7G	R
6MD4	102 310 800		6.3						D			B7G	D
6MH1	412 344 600		6.3		150		14.5	13	No Data Available			B7G	T
6MHH3	672 344 100		6.3	1	100		11	7.5	100		7.5	B7G	TT
6M-L2	642 364 100		6.3	4.5	150		14	5	100			B7G	T
6M-L4	642 314 600		6.3		100		17	6.5	100			B7G	T
6MK7	026 510 310	G1	6	2	250	100	5	2.3	100	100	2.3	AO8	P
6MP2	412 365 000		6.3	6	200	175	25	5.5	100	100		B7G	P
6MP17	412 365 400		6.3	8	250	250	32	5.2	100	100		B7G	P
6N3	**1 23* **8		6				180		REC		50mA	B9A	R
6N4	412 361 400		6	3	200		12	6	150		6	B7G	T
6N6	020 610 310		6.3	0	300		9		100		1.5	AO3	TT
					300		42	2.5	100		1.6		
6N7	027 446 310		6	5	250		3	1.6	100		1.6	AO8	TT
6N7	026 510 310	G1	6	2.5	250	125	10.5	3.4	100	100	3.2	AO8	P
6N8	541 236 891		6	2	250	90	5	2.2	100	90	2.2	B9A	DDP
6NK7	026 510 310	G1	6	2.5	250	125	10.5	3.4	100	100	3.2	AO8	P
6P1	026 540 310		6	8.5	250	250	30	8.8	100	150	8	AO8	P
6P2	412 365 100		6.3	68	250	150	10.6	5.2	No Data Available			B7G	P
6P5	026 040 310		6	13.5	250		5	1.25	100		1.4	AO8	T
6P6	215 413 000	A1	6	8	250	150	34		100	100		UX6	P
6P7	023 756 410	G1	6	3	100		3.5	0.5	100	60	0.5	AO8	TP
					100	100	6.3	1	100	100	1		
6P8	027 546 310	G1	6	8	100		2.2		100	60		AO8	TH
					250	75	2.2	0.7	100	75			
6P9	412 366 400		6	6	250	250	30	7	No Data Available			B9A	P
6P15	*41 23* 6*5		6	7.5	250	250	49	11.3	100	150	10	B9A	P
6P17	412 360 500		6	13.5	250	250	16	2.6	100	100		B7G	P
6P25	026 540 310		6	8.5	250	250	40	8.8	100	100	8	AO3	P
6P26	026 540 310		6	8.5	250	250	40	8.8	100	150	8	AO8	P
6P28	020 540 310	A1	6.3	8.8	350	250	72	9.5	No Data Available			AO8	P
6PL12	414 237 516		6.3	8.5	100		3.5	2.5	100	60		B9A	P
					250	250	40	8.8	100	100			
6PX6	026 540 310		6	6	250		35	9.2	100	150	8	AO8	P
6PZ8	026 598 310	G1	6	6	250	250	36	9.2	100	150	8	AO8	DDP
6Q4	441 230 446		6	1.5	250		15	12	No Data Available			B9A	T
6Q6	026 080 310		6	3	250		1.2	1.05	150		1.0	AO8	DT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6Q7	026 980 310	G1	6	3	250		1	1.2	100		1.5	AO8	DDT
6QL6	541 236 154		6	11.5	200	175	52	9.5	125	100		B9A	P
6R	026 510 310	G1	6	2	250	100	3.7	2	100	100		AO8	P
6R4	401 230 060		6	2	150		30	5.5	100		5	B9A	T
6R6	026 500 310	G1	6	3	250	100	7	1.45	100	100	1.4	AO8	P
6R7	026 980 310	G1	6	9	250		9.5	1.9	100		1.9	AO8	DDT
6R8	8†1 239 146		6	9	250		9.5	1.9	100		1.9	B9A	DDDT
6R51P	451 23* 6*5		6.3	8	250	250	54	11	No Data Available			B9A	P
6RA2	014 234 006		6.3	31	150		100	8.5	No Data Available			B9A	P
6RA5	606 023 C41		6.3	20	100		80	11	No Data Available			B9A	T
6RB11	504 234 106		6.3	12.5	200	200	45	7.5	100		1	B9A	P
6R-DHV1	145 327 864		6.3	2 1	250		1.2	1.6	100	60		B9A	DTP
6RHH2	741 236 410		6.3		1	250	100	9	3.5	100	100		
6R-HH8	641 237 410		6.3		100		16	16	No Data Available			B9A	TT
6R-HH9	641 237 410		6.3		90		16	16	No Data Available			B9A	TT
6RHV1	145 237 164		6	2 1	250		12	1.6	100	60		B9A	TP
6RK19	*** 25* **8	C	6.3		1	250	100	9	3.5	100	100		
6RP10	260 153 041		6.3	2.6	150	150	36	13.5	REC 40mA			B9A	R
6RP15	451 23* 6*5		6.3	8	250	250	59	11	100	100		B9A	P
6RR8	402 106 053		6.3		150	150	13	12.6	No Data Available			B9A	P
6RR8C	402 106 053		6.3		150	150	13	12	No Data Available			B9A	P
6RR21	541 236 891		6.3		150	150	13.5	15	No Data Available			B9A	DDP
6RV	026 510 310	G1	6	2	250	100	6.4	2.1	100	100	2.1	AO8	P
6S2	230 232 032	D1	6.3						D			B9A	R
6S2A	*** 23* ***	D1	6.3						No Data Available			B9A	D
6S4	*1* 234 **6		6	8	250		26	4.5	100		4.5	B9A	T
6S6	120 600 350	G1	6	2	250	100	13	4	100		4	AO8	P
6S7	026 510 310	G1	6	3	250	100	8.5	1.75	100	100	1.7	AO8	P
6S8	†18 916 230	G1	6	2	250		0.9	1.1	200		1.1	AO8	DDDT
6SA7	126 641 310		6	3.6	100		12	4.3	100		1.4	AO8	H
6SC5	026 400 310		6	4	250		7.5	2.7	100		2.7	AO8	T
6SC7	074 461 230		6	2	250		2	1.3	200		1.3	AO8	TT
6SD7	021 415 360		6	2	250	100	6	3.6	100	100	3.6	AO8	P
6SE7	021 415 360		6	1.5	250	100	4.5	3.4	100	100	3.4	AO8	P
6SF5	014 060 320		6	2	250		0.9	1.5	200		1.5	AO8	T
6SF7	041 581 360		6	1	250	100	12.4	2.05	100	100	2	AO8	DP
6SG7	021 415 360		6	1	250	125	11.8	4.7	100	100	4.7	AO8	P
6SH7	021 415 360		6	1	250	150	10.8	4.9	100	150	4.9	AO8	P
6SJ7	021 415 360		6	3 3 3	250	100	3	1.65	100	100	1.6	AO8	P
6SJ8	027 546 310	G1	6		150		5	1.6	100	60	1.6		
6SK7	021 415 360		6		150	100	1.3	1.2	100	100	1.2		
6SL7	461 471 230		6	2	250		2.3	1.6	150		1.6	AO8	TT
6SN7	461 471 230		6	8	250		2.9	1.9	100		2.6	AO8	TT
6SQ7	041 896 230		6	2	250		0.9	1.1	200		1.1	AO8	DDT
6SR7	041 986 230		6	9	250		9.5	1.9	100		1.9	AO8	DDT
6SS7	021 415 360		6	3	250	100	9	1.85	100	100	1.8	AO8	P
6ST7	041 896 230		6	9	250		9.5	1.9	100		1.9	AO8	DDT
6SU7	471 461 230		6	2	250		2.3	1.6	200		1.6	AO8	TT
6SV7	041 586 230		6	1	250	150	7.5	3.4	100	150	3.5	AO8	DP

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6SZ7	041 986 230		6	3	250		1	1.2	200		1.2	AO8	DDT
6T	205 413 000	A1	6	12.5	250	250	4.5	4.1	100	150	4	UX6	P
6T1	642 314 600		6		75		16	6.6	80			B7G	T
6T4	642 314 600		6	3	80		18	7	80		7	B7G	T
6T6	026 500 310	G1	6	1	250	100	10	5.5	100	100	5.5	AO8	P
6T7	026 980 310	G1	6	3	250		1.2	1	100		1	AO8	DDT
6T8	†91 238 146		6	3	250		1	1.2	150		1.3	B9A	DDDT
6T8A	†91 238 146		6	3	250		1	1.2	100		1.3	B9A	DDDT
6T24	647 230 114		6	2	150		17	7	100			B9A	TT
6T26	641 237 410		6	2.3	250		10	6	100			B9A	TT
6T27	641 237 410		6		150		10	6.8	100			B9A	TT
6TD32	891 230 146		6.3	3	250		1	1.2	100		0.6	B9A	DDT
6TD33	891 230 146		6.3	3	250		2.2	2.1	100		1.4	B9A	DDDT
6TD34	891 230 146		6.3	3	250		2.2	2.1	100		1.4	B9A	DDDT
6TE8	527 146 310	G1	6	{ 2 2	100 250	100	3.7 3.5		100 100	60 100		AO8	TH
6TE9	651 237 440		6	{ 2.5 7	100 200 150	90	4 3 6	2 0.7 1.1	100 100 150	60 90 60	2	B9A	TH
6TH8	027 546 310	G1	6	{ 1.5 14.5	200 250	75 250	3.5 12		100 100	75 150		AO8 UX6	TH P
6TP	205 413 000	A1	6		250	250	12	6	100	150	6	UX6	P
6TP1	645 237 114		6	{ 68 2 3	150 250 100	100	18 10 4	8.5 5.2 2	100 100 100	60 100 60		B9A	TP
6TP3	641 237 154		6	{ 2 3	100 200	100	4 8	2 3	100 100	60 100		B9A	TP
6TP4	145 237 614		6	{ 68 100	150 250	100	18 10	8.5 5.2	100 100	60 100		B9A	TP
6TP5	541 327 164		6	{ 100 200	100 200	100	2.2 9	1.3	100 100	60 100		B9A	TP
6U3	**1 23* **8		6				180		REC		40mA	B9A	R
6U4	001 080 230		6				120		REC		30mA	AO8	R
6U5M	028 090 310		6				30		REC		15mA	AO8	RR
6U6	026 540 310		6	14	200	150	56	6.2	100	100	6.2	AO8	P
6U7	026 510 310	G1	6	3	250	100	8	1.5	100	100	1.5	AO8	P
6U8	645 237 114		6	{ 1 1	150 150	100	18 10	8.5 5.2	100 150	60 100	7 5	B9A	TP
6U8A	645 237 114		6	{ 1	150	100	18	8.5	100	60		B9A	TP
6V3A	082 230 808	C	6		250	100	10	5.2	100	100		B9A	RR
6V4	8*1 23* 9**		6				120		REC		30mA	B9A	RR
6V5	006 540 230		6	12.5	250	250	45	4.1	100	150	4.1	AO8	P
6V6	026 540 310		6	12.5	250	250	45	4.1	100	150	4	AO8	P
6V7	026 980 310	G1	6	20	250		8	1.1	100		1.1	AO8	DDT
6V8	681 234 †19		6	3	250		1	1.2	100		1.3	B9A	DDDT
6W2	023 000 000	D1	6						D			B3G	D
6W3	**1 23* **8		6				20		REC		40mA	B9A	R
6W4	001 080 230		6				120		REC		30mA	AO8	R
6W5	028 090 310		6				60		REC		20mA	AO8	RR
6W6	026 540 310		6	9.5	150	150	58	8	100	100	8	AO8	P
6W7	026 510 310	G1	6	3	250	100	2	1.2	100	100	1.2	AO8	P
6WC5	266 114 300		6	3.6	100		12	4.3	No Data Available			B7G	H
6X2	023 000 000	D1	6						D			B3G	D
6X3	020 000 310	D1	6				5		D			AO8	R
6X4	802 309 100		6				30		REC		35mA	B7G	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE	
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V			
6X5	028 090 310		6				30			REC		35mA	AO8	RR
6X8	146 231 457		6	1 1.8	100		8.5	5.8	100	60	5	150	B9A	TP
6X8A	146 231 457	6	250		150	7.5	4.6	100	150	4				
			150		150	8.5	5.8	100	60	5				
			150	150	7.7	4.6	100	100	4					
6Y3	030 000 200	D1	6				5			D			AO8	R
6Y5	208 193 000		6				30			REC		15mA	UX6	RR
6Y6	026 540 310		6	13.5	150	150	58	7	100	100	7		AO8	P
6Y7	027 446 310		6	0	250		5.3	1.8	150		1.8		AO8	TT
6Y50	802 308 001		6				180			REC		40mA	B9A	R
6Z3	381 200 000		6				60			REC		23mA	UX4	R
6Z4	289 130 000		6				30			REC		45mA	UX5	RR
6Z5	328 192 000		6				30			REC		15mA	UX6	RR
6Z6	028 190 310		6				30			REC		15mA	AO8	RR
6Z7	026 447 310		6	0	200		4.2	0.5	150		0.5		AO8	TT
6Z31	802 309 100	C	6.3				30			REC		15mA	B7G	RR
6Z40	000 230 008		6.3				120			REC		30mA	B9A	R
6ZDH3A	264 813 000		6	2	250		1.5	1.5	100		1.2		UX6	DT
6ZP1	265 413 000		6	9	200	200	15	1.7	100	100			UX6	P
6ZY5	028 090 310		6				15			REC		15mA	AO8	RR
7A2	045 231 600		4	17	250	250	40	3.2	100	150	2.3	B7	P	
7A3	045 231 600		4	6	250	250	32	10	100	100	10	B7	P	
7A4	260 0*4 130		6	8	250		9	2.6	100		2.6	B8B	T	
7A5	265 004 130		6	9	150	125	44	6	100	90	6	B9B	P	
7A6	219 008 130		6				5		D			B8B	RR	
7A7	265 104 130		6	3	250	100	9.2	2	100	100	2	B8B	P	
7A8	266 451 130		6	1	250	100	14	1.4	100	100	1.6	B8B	O	
7AB7	526 141 310		6	2	250	100	4	1.8	100	100	1.2	B8B	P	
7AC7	412 365 100		6		300	150	10	9	100	100	8	B7G	P	
7AD7	265 104 130		6	2.3	300	150	28	9.5	100	150	9	B8B	P	
7AF7	217 446 130		6	9	250		9	2.1	100		2.1	B8B	TT	
7AG7	265 114 130		6	2	250	250	6	4.2	200	200	4.2	B8B	P	
7AH7	265 114 130		6	2	250	250	6.8	3.3	100	150	3.3	B8B	P	
7AJ7	265 104 130		6	3	250	100	2.2	1.5	100	100	1.5	B8B	P	
7AK7	265 104 130		6	0	150	90	40	6.5	100	100	6.0	B8B	P	
7AN7	147 234 116		7.5	1	90		12	6	100		6	B9A	TT	
7AU7	741 226 413		3.5	8.5	250		10.5	2.2	100		2.2	B9A	TT	
7B4	260 004 130		6	2	250		0.9	1.5	200		1.5	B8B	T	
7B5	265 004 130		6	18	250	250	32	2.3	100	150	2.3	B8B	P	
7B6	264 *98 130		6	2	250		0.9	1.1	200		1.1	B8B	DDT	
7B7	265 104 130		6	3	250	100	8.5	1.7	100	100	1.7	B9B	P	
7B8	265 454 130		6	2	250	100		1.1	100	100	1.1	B8B	H	
7C4	2*0 800 130		6				5		D			AO8	R	
7C5	265 004 130		6	12.5	250	250	45	4.1	100	150	4.1	B8B	P	
7C5LT	265 004 130		6	12.5	250	250	45	4.1	100	150	4.1	B8B	P	
7C6	264 198 130		6	1	250		1.3	1	250		1	B8B	DDT	
7C7	265 114 130		6	3	250	100	2	1.3	100	100	1.3	B8B	P	
7CE40	146 234 117		7	1.5	90		12	6	80		6	B9A	TT	
7D3	045 231 600		40	20	150	125	36	2.4	100	100	3.8	B7	P	
7D5	045 231 600		13	16.5	250	250	34	2.3	100	130	2.3	B7	P	
7D6	045 231 600		40	6	250	250	32	10	100	100	10	B7	P	

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
7D7	276 454 130		6	{ 3 3	150 250		3 1.3		100 100	60 100		B8B	TH
7D8	045 231 600		13	6	250	250	32	10	100	100	10	B7	P
7D9	412 360 500		6	13.5	250	250	16	2.6	100	150	2.6	B7G	P
7D9	045 231 600		13	25	250	250	32	1.8	100	150	1.8	B7	P
7D10	*41 230 651		6	4.5	250	250	40	11	100	150	9	B8A	P
7D11	026 540 310		6.3	20	350	250	95	9	100	100		AO8	P
7DJ8	641 237 411		7	1.3	90		15	12.5	No Data Available			B9A	TT
7E5	426 141 630		6	3	200		5.5	3	150		3	B8B	T
7E6	264 *98 130		6	8	250		9.5	1.9	100		1.9	B8B	DDT
7E7	269 854 130		6	3	250	100	7.5	1.3	100	100	1.3	B8B	DDP
7ED7	141 230 651		7.3	1.9	200	175	10		100	100		B9A	P
7EK7	146 234 117		7	1.2	200		15	4	100		4	B9A	TT
7ES8	641 237 410		7	1.2	90		15	12.5	No Data Available			B9A	TT
7EY6	026 540 310		7.2	17.5	250	250	44	4.4	100	100		AO8	P
7F7	217 446 130		6	2	250		2.3	1.6	200		1.6	B8B	TT
7F8	427 116 340		6	3	250		6	3.3	200		3.3	B8B	TT
7F16	261 154 130		6	2.5	250	100	6	2.2	100	200	2.2	B8A	P
7FC7	146 234 117		7.2	1.2	90		15	12	No Data Available			B9A	TT
7G7	265 114 130		6	2	250	100	6	4.5	100	100	4.6	B8B	P
7G8	265 441 730		6	2.5	250	100	4.5	2.1	100	100	2.1	B8B	PP
7GH8	576 234 141		8	{ 3 1.2	100 200		14 10		100 100	60 100		B9A	TH
7GV7	657 231 414		7.4	{ 3 2	100 250	250	14 10	5.5 11	100 100	60 100		B9A	TP
7H6	265 114 130		6	2.5	250	150	9.5	3.5	100	150	3.5	B8B	P
7H7	265 114 130		6	2	250	150	10	4.2	100	150	4.2	B8B	P
7HG8	741 234 675		7.2	{ 3 1.2	125 250	150	15 18		No Data Available			B9A	TH
7J7	276 454 130		6	{ 3 3	150 250	100	6.6 1.4	1.4	150 100	60 100	1.4	B8B	TH
7K7	216 498 130		6	2	250		2.3	1.6	200		1.6	B8B	DDT
7L7	265 104 130		6	1.5	250	100	4.5	3.1	100	100	3.1	B8B	P
7MP18	412 365 400		7.5	5	200	175	35	11	No Data Available			B9A	P
7N7	217 446 130		6	8	250		9	2.6	100		2.6	B8B	TT
7Q7	266 414 130		6	2	100		15	6	100		4.5	B8B	H
7R1	280 300 000		7.5				60		REC		20mA	UX4	R
7R7	269 854 130		6	1	250	100	6.2	3.4	100	100	3.4	B8B	DDP
7S7	276 454 130		6	{ 1 2	100 250	100	4.8 4	1.4 2	100 100	60 100	1.8 2.2	B8B	TH
7T7	265 104 130		6	1	250	150	10.8	4.9	100	150	4.9	B8B	P
7V7	265 114 130		6	2	300	150	10	5.8	100	150	5.8	B8B	P
7W7	265 114 130		6	2	300	150	10	5.8	100	150	5.8	B8B	P
7X6	218 009 130		6				30		REC		15mA	B8B	RR
7X7	264 189 130		6	1	250		1.9	1.5	250		1.5	B8B	DDT
7Y4	208 009 130		6				30		REC		30mA	B8B	RR
7Z4	209 008 130		6				60		REC		20mA	B8B	RR
8A1	542 310 000	A1	4	1.5	200	75	3.5	4	100	75	4	B5	P
8A1	041 231 500	A1	4	1.5	200	75	3.5	4	100	75	4	B7	P
8A2	542 310 000	A1	4	2.1	200	100	3	2.4	100	100	2.4	B5	P
8A8	645 237 114		9	{ 2 2	100 200	175	14 10	5 6.2	100 100	60 150	5 6	B9A	TP
8AU8	146 231 457		8.5	{ 1.25 1.5	150 200	125	8.5 16	4.9 7	100 100	60 100	5 7	B9A	TP

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
8AU8A	146 231 457		8.5	{ 1.2 1.5	150		8.5	4.9	100	60	5	B9A	TP
8AW8	146 231 457		8.4	{ 2 3	200	125	16	7	100	100	7		
8B8	414 237 516		8	{ 1 16	100	200	1	1.9	100	60	1.9	B9A	TP
					200		35	6.4	100	100			
8BA8	146 231 457		8.4	{ 8 3	200		8	2.7	100	60	5	B9A	TP
8BH8	146 231 457		8.4	{ 5 1.6	150	125	13	9	100	100			
8BV8	414 237 516		7.9	{ 1 16	200	200	3.7	2.5	100	60	2.5	B9A	TP
8BN8	811 239 641		8.4	{ 3 7.3	250		1.6	2.6	100		3.5		
8BQ5	*41 23* 6*5		8		250	250	48	11.5	No Data Available			B9A	DDT P
8BQ7A	641 237 410		8.4	{ 2 2	150		9	6.4	100		6	B9A	TT
8CF40	645 237 114		9		100	175	14	5	100	60			
8CG7	741 236 410		8.4	{ 8 7	250		9	2.6	100	100	3	B9A	TT
8CM7	701 236 441		8.4		200		5	2	100		2.8		
8CN7	891 221 643		4.2	{ 8 3	250		20	4.4	100		4.7	B9A	DDT
					250		1	1.2	100		1.3		
8CS7	704 236 411		8.4	{ 10.6 12.5	250		19	4.5	100		4	B9A	TT
8CW5	*51 23* 6*5		8		200	175	70	10	100	60			
8CW8	415 237 146		8	{ 1.7 7	250		1.2	1.6	100	60	1.6	B9A	TP
					250	250	36	10	100	100			
8CX8	146 231 456		8	{ 1.5 2	150	125	9	4.6	100	60	4.6	B9A	TP
8CY7	6*4 237 411		7.9	{ 3 18.5	250		1.2	1.3	100	60			
					150		30	5.4	100			B9A	TT
8D2	061 231 500	G1	13	{ 3 2	250	100	2	1.25	100	100	1.25		
8D3	412 361 500		6		250	250	10	7.5	100	PenLF	5		
8D4	026 510 310	G1	6	{ 1.5 2	200	150	4	6.4	100	PenLF	5	B7G	P
8D5	041 230 651		6		250	100	3	1.8	100	100	1.8		
8D6	141 230 651		6	{ 3 2	250	100	2	1.2	100	100	1.2	AO8	P
					200	175	10	2.5	100	100	2.5		
8D7	001 230 651	G1	6	{ 3 2	250	100	2	1.25	100	100	1.2	B9A	P
8D8	501 236 014		6		250	150	3	1.9	100	100			
8DX8	461 237 145		7.5	{ 1.7 2.1	200	175	30	4	100	60		B9A	TP
					200		18	11	100	100			
8EB8	146 231 457		8	{ 2 2	250	125	2	2.7	100	60		B9A	TP
8EM5	504 234 106		8.4	{ 2 18	200	250	25	12.5	100	100			
					250		35	5.1	100	100		B9A	P
8ET7	189 231 456		8	{ 100 8	200	150	25	11.5	No Data Available				
8FQ7	741 236 410		8.4		250		9	2.6	100			B9A	TT
8G140	892 300 000		8				60		REC		20mA		
8GE8	146 231 457		8.2	{ 2 7.4	200	175	4.5	4.2	100	60		B9A	TP
8GK6	141 230 651		8		200		22	12	100	100			
8GN8	146 231 457		8	{ 2 3	250	250	48	11.3	No Data Available			B9A	P
					250	150	2	2.7	100	60	3	B9A	TP
					200		25	11.5	100	100			
8GW8	415 237 146		7.5	{ 1.7 7.0	250	250	1.2	1.6	100	60	1.5	B9A	TP
8GX7	151 236 574		7.7	{ 1 1	125	125	13	8.5	100	100			
					125		8	11	100	100	7.8	B9A	TP

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
8HG8	141 234 675		8	{ 3 1.2	100 200		14 10	5.5 12	100 100	60 100	5.5	} B9A	TP
8JE8	146 231 457		8.2	{ 2 2	200 250	150 150	4.5 22	4.2 12	100 100	60 100	4		
8JK8	741 236 410		8.4	{ 1.0 1.2	100 150		5.3 10	6.8 13	100 100		6	} B9A	TT
8JV8	146 231 457		8.5	{ 2 2.9	200 200		4 22	4 10.7	100 100		7.4		
8LE8	611 230 154		8	2.5	100	100	8	5.8	100	100	5.8	B9A	PP
8MP12	412 365 400		8.5		200	175	25		100	100		B7G	P
8NP12	412 365 400		8.5		200	175	25		100	100		B7G	P
8RB11	504 234 106		8.5	12.5	200	200	45	7.5	100	100		B9A	P
8RHP1	414 237 516		8.2	{ 16 16	100 200		3.5 35	2.5 6.4	100 100	60 100	2.5 6	} B9A	TP
8SN7	461 471 230		8.4	8	250		9	2.6	100		2.6		
8T27	641 237 410		8.4		150		10	6.8	100			B9A	TT
9A1	542 231 000	A1	4	1.5	200	75	5	4.2	100	75	4.2	B5	P
9A1	045 231 500	A1	4	1.5	200	75	5	4.2	100	75	4.2	B7	P
9A3	061 231 500	G1	4	2	250	125	10	1.8	100	100	1.8	B7	P
9A8	645 237 114		9	{ 2 2	100 200	175	14 10	5 6.2	100 100	60 150	5 5	} B9A	TP
9AB4	602 304 100		9	2	250		10	5	100		5		
9ABC40	891 230 146		9.5	1.9	170		1	1.4	No Data Available			B9A	DDDT
9AK8	791 238 146		9.5	2.3	200		1	1.4	100		1.4	B9A	DDDT
9AQ8	641 237 410		9	2.1	200		10	5.8	200		5.8	B9A	TT
9AU7	741 226 413		4.7	3.5	250		10.5	2.2	100		2.2	B9A	TT
9BM5	412 365 400		9	6	250	250	30	7	100	100		B9A	P
9BQ7A	641 237 410		8.4	2	150		9	6.4	100		6	B9A	TT
9BR7	641 229 813		4.7	2.0	250		10	4	100		4	B9A	DDT
9BW6	*41 230 651		9	12.5	250	250	45	4.1	100	150	4	B9A	P
9C8	645 237 114		9	{ 2 2	100 200	175	14 10	5 6.2	100 100	60 100	5	} B9A	TP
9CL8	461 237 514		9.5	{ 0.75 0.1	150 150	125	15 12	8 5.8	100 125	150	7.5 5		
9D2	061 231 500	G1	13	3	250	125	10.5	1.65	100	100	1.8	B7	P
9D6	412 361 500		6	2.5	250	200	8	2.5	100	100	2.5	B7G	P
9D7	141 230 651		6	1.5	250	100	10	8.4	100	100		B9A	P
9DZ8	414 237 516		9	{ 150 150		125	0.8 45	1.4 7.5	100 100	60 100	1.4	} B9A	TP
9EA8	857 238 114		18.9	{ 1 1	150 125	125	18 12	8.5 6.4	100 100		7.8		
9EF6	026 540 310		9.4	18	250	250	50	5	100	100		AO8	P
9EN7	157 236 414		9	{ 150 200		150	6 7.6	5 8.5	100 100	60 100		} B9A	TP
9GV8	641 237 541		9.4	{ 250 250		250	8 12		100 100	60 100			
9J6	762 344 100		9	0.85	100		8.5	5.3	100		5.3	B7G	TT
9JT8	148 231 578		7.7	{ 2 1.6	250 200	100	1.5 1.7	2.7 20	100 100		28	} B9A	TP
9P9	412 365 400		9	6	250	250	30	7	100	100			
9RA6	140 230 406		9.5	12	250		26	8.5	100			B9A	T
9T8	791 238 146		9.5	3	250		1	1.2	100		1.3	B9A	DDDT
9T26	641 237 410		9.5	2.3	250		10	6	100		6	B9A	TT
9TP4	145 237 614		9.4	{ 68 68	150 250	100	18 10	8.5 5.2	100 100	60 100		} B9A	TP

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
9U8	645 237 114		9.5	{ 1 1	150 250		18 10	8.5 5.2	100 100	60 100	8.5 5	} B9A	TP
9U8A	645 237 114		9.5	{ 1 1	150 250	100	18 10	8.5 5.2	100 100	60 100	8.5 5		
9X8	146 231 457		9.5	{ 3.5	150	150	8.5 6.2	5.8 2.1	100 100	60 100		} B9A	TP
10	264 300 000		7.5	{ 32	250		16	1.55	100		1.5		
10BM8	414 237 516		10	{ 11.5	100		3	2.2	100	60		} B9A	TP
10BQ5	041 230 605		10	{ 7.3	150	150	41	7.5	100	100			
10C1	276 454 130		28	{ 3.3	100		6	3	100	60	3	} B8A	TH
10C2	276 454 130		28	{ 2.5 3.3 1.5	200 100 175	100	8 6 3	2.5 3 5	200 100 100	100 60 100	2.5 3 5		
10C8	641 237 541		10.5	{ 2.7 1.5	250 150		7.3 11.5	4.4 8	100 125	60 125	5 8	} B9A	TP
10C14	541 237 164		19	{ 100 2.2	100 200		13 7 5	3 7 2.3	100 100	60 100			
10CW5	*41 23* 6*5		10	12.5	150	150	70	10	No Data Available			B9A	P
10D1	892 310 000		13				5		D			B5	RR
10D2	192 310 800		19				5		D			B7G	RR
10DA7	614 237 411		10.5	{ 8 17.5	250 150		9 40	2.6 5.7	100 100			} B9G	TT
10DA8	604 237 411		10.5	{ 8	250		9	2.6	100				
10DE7	744 236 411		10	{ 17.5 11	150 250		32 5.5	6.5 2	100 100			} B9A	TT
10DR7	744 236 411		9.7	{ 17.5 3	150 250		35 1.4	6.5 1.6	100 100				
10EB8	146 231 457		10.5	{ 2	250 200	125	2 25	2.7 12.5	100 100	100 100		} B9A	TP
10EG7	471 461 230		9.7	{ 11 17.5	350 150		5.5 45	2 7.5	100 100				
10EM7	461 471 230		9.7	{ 20 3	150 250		50 1.4	7.2 1.6	100 100			} B9A	TT
10ER5	142 360 100		10.8	{ 1.2	200		10	10.5	No Data Available				
10EW7	744 236 411		9.7	{ 17.5 11	150 250		45 5.5	7.5 2.0	100 100			} B9A	TT
10DX8	461 237 145		10	{ 1.7 2.1	200 200	175	3 18	4 11	100 100	60 100	4		
10F1	261 514 130		22	1.8	200	200	100	9	100	100		B8A	P
10F3	260 154 130		22	2.3	200	200	6	6.5	100	150	7	B8A	P
10F9	260 154 130		13	2.5	200	100	7	2.3	100	100	2.3	B8A	P
10F18	141 230 651		13	1.3	200	100	12	4.5	100	100		B9A	P
10FD7	644 237 411		9.7	{ 6 17.5	250 150		6 45	1.6 7.5	100 100		1.6	} B9A	TT
10FD12	541 236 891		19	1.5	200	200	11	4.5	100	100			
10FG7	141 237 064		9.7	{ 3 20	250 150		1.4 50	1.6 7.2	100 100			} B9A	TT
10FR7	644 237 411		9.7	{ 3 20	250 150		1.4 50	1.6 7.2	100 100		0.5 5.8		
10GF7	141 237 064		9.7	{ 20 3	150 250		50 1.4	7.2 1.6	100		1.6	} B9D	TT
10GN8	146 231 457		10.5	{ 2 3	250 200	150	2 25	2.7 11.5	100 100	60 100	3		

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
10GW8	415 237 146		10	{ 1.7 7	250 250		1.2 36	1.6 10	100 100	60 100	1.6	B9A	TP
10HF8	146 231 457		10	{ 2 1	250 250		4 25	4 12.5	100 100	60 100	4	B9A	TP
10JT8	148 231 578		10.2	{ 2 1.6	250 200	100	1.5 17	2.7 20	100 100			B9A	TP
10JY8	146 231 457		10.5	{	125 200	150	15 24	10.4 11	100 100	60 100	9.5 7.8	B9A	TP
10KR8	146 231 457		10.5	{	100 200		15 19.5	10.4 20.0	No Data Available			B9A	TP
10KU8	19* 231 478		10.2	1.6	200	100	17	20			14	B9A	DDP
10L1	412 314 600		19	1.5	250		10	8.5	100		8	B7G	T
10L14	641 237 410		26	2.1	200		10	5.8	100		5	B9A	TT
10LB8	148 231 578		10.2	{ 0.9 1.6	125 200	100	13 17	5 20	100 100		14	B9A	TP
10LD3	264 098 130		14	1.1	150		0.6	1.95	150		1.9	B3A	DDT
10LD11	264 098 130		15	5.9	250		5	2.3	100		3	B3A	DDT
10LD12	191 238 146		28	2.3	200		1	1.4	100		1.4	B9A	DDT
10LD13	641 238 09*		13	4.4	150		0.5	1.4	100		1.4	B9A	DDT
10LE8	011 236 154		10	2.5	100	100	8	5.8	100	100	5.8	B9A	PP
10P13	260 054 130		40	6	150	150	30	7.5	100	100	6	B8A	P
10P14	026 540 310		40	9.4	200	175	40	7.2	100	150	6	AO8	P
10P18	*41 23* 6*5		45	12.5	200	175	70	10	100	100	9	B9A	P
10PL12	414 237 516		50	{ 16 4.5	100 200	200	3.5 35	2.5 6.4	100 100	60 100	2.5	B9A	TP
11	362 400 000		1.1	4.5	90		2.5	0.4	80		0.4	UX4	T
11A1	*1* 234 **6		6.3		150		100	12				B9A	T
11A2	908 231 600	G1	4	2	200		3	2.8	100		2.8	B7	DDT
11A6	264 147 300		10	1	100			3.1	100		3.1	AO8	TT
11C5	026 040 310		10	1	100			2	100		2	AO8	T
11CY7	7*4 236 411		11	{ 3 2	250 150		1.2 30	1.3 5.4	100 100			B9A	TT
11D3	908 231 600	G1	13	2	250		0.6	1.1	100		1.1	B7	DDT
11D5	908 231 600	G1	13	3	250		3.8	1.5	150		1.5	B7	DDT
11E1	216 540 030		6		250	250	50	7.3	100	100	7	MO8	P
11E2	020 540 310	A1	6	16.5	200	200	25	9	100	150	8	AO8	P
11E8	200 647 310	G1	11		150		20		100			AO8	TT
11E13	414 226 573		6.3	40	300	200	75		No Data Available			B9A	PP
11F6	026 540 310		10	1	100	150		2.5	100	150	2.5	AO8	P
11J7	026 500 310	G1	10	1	250	100		1.2	250	100	1.2	AO8	P
11JE8	146 231 457		10	{ 2 1	200 200	175	4.5 22	4.2 12	100 100	60 100		B9A	TP
11K7	026 500 310	G1	10	1	250	100		1.4	250	100	1.4	AO8	P
11L6	026 540 310		10	1	100	150		6	100	150	6	AO8	P
11N7	026 447 310		10	1	100			3.1	100		3.1	AO8	TT
11QL8	146 231 457		10.9	{ 1 1.4	125 200	125	15 20	10.4 23	100 100		15	B9A	TP
11X5	028 090 310		11				30		REC		15mA	AO8	RR
12	364 200 000		1.1	4.5	90		2.5	0.42	80		0.4	UX4	T
12A	264 300 000		5	4.5	90		5	1.5	80		1.5	UX4	T
12A4	142 330 406		6	9	250		23	0.8	250		0.8	B9A	T
12A5	265 413 200		6	15	100	100	17	1.7	100	90	1.7	UX7	P
12A6	026 540 310		12.5	12.5	250	250	30	2	100	150	3	AO8	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE									
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V											
12A7	265 181 300	G1	12.5	{ 12.5	150	150	30	1	REC	100	100	15mA	} Sm7	RP								
12A8	026 545 310	G1	12.5				9		1.15						100	100	1.1	AO8	H			
12AB5	504 234 156		12				12.5		250						250	45	4.1	250	200	4	B9A	P
12AB5	421 060 350		12				22.5		250						150	57	5.9	100	100	5.8	AO8	P
12AC5	26* *54 130		12	3	200	125	2.3	2.3	100	150	2.3	B8A	P									
12AC6	412 365 100		12.6	10	12.6	12.6	0.5	0.7	No Data Available			B7G	P									
12AD5	541 236 **0		12.6	2.5	100	100	6	2.2	100	100	2.5	B9A	P									
12AD6	412 365 100		12.6		12	12	5	3.8	No Data Available			B7G	P									
12AD7	641 227 413		6	2	250		1.25	1.6	100			B9A	TT									
12AE6	412 389 600		12.6		12.6		0.7	1	No Data Available			B7G	DDT									
12AE7	641 227 413		6.3		12.6		0.9	6.5	No Data Available			B9A	TT									
12AF3	*** 23* 88*		12.6				120		REC		40mA	B9A	R									
12AF6	412 365 100		12.6		12	12	0.7	1.1	No Data Available			B7G	P									
12AG6	412 365 100		12.6	0.8	12	12	0.5		No Data Available			B7G	H									
12AH6	412 365 100		12.6	2	300	150	10	9	100	100	8	B7G	P									
12AH7	417 146 230		12.5	3.6	100		3.7	1.55	80		1.5	AO8	TT									
12AH8	541 227 463		6	{ 3	100		14.7	3.5	100	60	3.5	} B9A	TH									
					250	100	2.6		100	100	2.8											
12AJ6	412 389 600		12.6		12		0.7	1.2	No Data Available			B7G	DDT									
12AJ7	541 237 464		12	{ 2.5	100		4	2	100	60	2	} B9A	TH									
					250	90	3	0.6	100	100												
					60		2.6		60	60												
12AJ8	541 237 464		12	{ 1.2	100	60	1.7		100	60		} B9A	TH									
					250		1.2	1.6	150		1.6											
12AK7	741 226 413		6		250		1.2		D			B9A	TT									
12AL5	192 310 800		12.5				5					B7G	RR									
12AL8	654 237 141		12.6	{ 0.9	12		0.2	0.5	No Data Available			} B9A	TP									
					0.8	12	12	25	8													
12AQ5	412 365 400		12.5	12.5	250	250	45	4.1	100	150	4	B7G	P									
12AS5	142 345 600		12	8.5	150	100	35	5.6	150	100	5.6	B7G	P									
12AT6	412 389 600		12.5	3	250		1	1.2	100		1.2	B7G	DDT									
12AT7	741 226 413		6	2	250		10	5.5	200		5	B9A	TT									
12AU4	001 080 230		12				120		REC		40mA	AO8	R									
12AU6	412 365 100		12.5	1	250	150	10.8	5.2	100	100	5.2	B7G	P									
12AU7	741 226 413		6	8.5	250		10.5	2.2	100		2.2	B9A	TT									
12AU8	146 231 457		12.6	{	150		8.5	4.9	100	60		} B9A	TP									
					200	125	15	7	100	100												
12AV5	421 060 350		12.6	22.5	250	150	55	5.5	No Data Available			AO8	P									
12AV6	412 389 600		12.5	2	250		1.2	1.6	100		1.2	B7G	DDT									
12AV7	741 226 413		6	1	150		18	8.5	100		7	B9A	TT									
12AW6	412 365 100		12.5	1.5	250	150	7	5	100	150	5	B7G	P									
12AW7	412 365 100		12.5	1.8	250	150	7	5	100	150	5	B7G	P									
12AX4	001 080 230		12.5				120		REC		35mA	AO8	R									
12AX7	741 226 413		6	2	250		1.2	1.6	150		1.6	B9A	TT									
12AY3	080 230 801		12.6				180		REC		35mA	B9D	R									
12AY7	641 227 413		6	4	250		3	1.7	100		1.7	B9A	TT									
12AZ7	741 226 413		6	2	200		10	5.5	100		5.5	B9A	TT									
12B3	080 230 808	C1	12.6						D			B9A	R									
12B4	142 330 406		6	17.5	150		34	6.4	150		6.3	B9A	T									
12B6	026 080 310	G1	12.5	2	250		0.9	1.1	150		1.1	AO8	DT									
12B7	265 104 130		12.5	3	250	100	9.2	2	100	100	2	B8B	P									
12B8	127 561 340	G1	12.5	{ 1.1	100		0.6	1.5	100	60	1.5	} AO8	TP									
					3	100	100	8	2.1	90	90			1.8								

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
12BA6	412 365 100		12.5	1	250	100	11	4.4	100	100	4.4	B7G	P
12BA7	641 231 106		12.5	2	100		18	7	100		7	B9A	H
12BC32	412 389 600		12	2	250		1	1.6	100		1.2	B7G	DDT
12BD6	412 365 100		12.5	3	250	100	9	2	100	100	2	B7G	P
12BE6	412 366 100		12.5	6	150		7.5	3.5	100		5	B7G	H
12BF6	412 398 600		12.5	9	250		9.5	1.9	100		1.9	B7G	DDT
12BH7	741 226 413		6	10.5	250		11.5	3.1	100		4	B9A	TT
12BK5	604 231 450		12	5	250	250	35	8.5	100	150	8	B9A	P
12BK6	412 389 600		12.5	2	250		1.2	1.6	150		1.6	B7G	DDT
12BL6	412 365 100		12.6	0.6	12	12	1.4	1.3	No Data Available			B7G	P
12BN6	142 354 600		12.5	1	60	60	0.5	1	80	60	1	B7G	P
12BQ6	020 540 310		12	22.5	250	150	57	5.9	100	100	5	AO8	P
12BR7	641 228 913		6	2	250		10	5.5	100		4	B9A	DDT
12BR7A	641 228 913		6.3		100		3.7	4	100			B9A	DDT
12BS3A	*8* 23* 8*1		12.6				180		REC		40mA	B9D	R
12BT6	412 389 600		12.5	3	250		1	1.2	150		1.2	B7G	DDT
12BU6	412 389 600		12.5	9	250		9.5	1.9	150		1.9	B7G	DDT
12BV7	141 223 651		6	2.2	250	150	27	13	100	100		B9A	P
12BW4	800 230 901		12				30		REC		15mA	B9A	RR
12BX6	141 230 651		12.6	2	150	150	10	7.4	100	100		B9A	P
12BY7	141 223 651		6	2.1	250	150	25	12	150	100	10	B9A	P
12BZ6	412 365 100		12.6	1	100	125	14	8	125	125	7	B7G	P
12BZ7	741 226 413		6	2	250		2.5	3.2	100		3	B9A	TT
12C2C	026 040 310		12.6	8	250		9	2.6	100			AO8	T
12C5	142 345 600		12	7.5	150	100	49	7.5	100	90	6	B7G	P
12C8	026 985 310	G1	12.5	3	250	125	10	1.3	100	100	1.3	AO8	DDP
12CA5	142 345 600		12	4.5	125	125	36	9.2	100	100	8	B7G	P
12CD6	021 040 350	A	12.6	55	150	150	75	7.7	100	100		AO8	P
12CM6	504 234 106		12	12.5	250	250	45	4.1	100	100		B9A	P
12CN5	142 345 600		12.6		12	12	4.5	3.8	No Data Available			B7G	P
12CR5	154 231 541	A1	12.6	22.5	250	150	65	6	100	100		B9A	P
12CR6	182 365 400		12	2	250	100	6.9	2.2	100	100	2	B7G	DP
12CS5	514 234 1*6		12.6	10	200	125	47	8	100	188		B9A	P
12CS6	112 365 400		12	1	100	30	0.8	1.5	No Data Available			B7G	P
12CT8	641 237 541		12	1.4	150		9	4.9	100	60	4.5	B9A	TP
				1.5	200	125	15	7	100	100			
12CU5	142 345 600		12	8	150	100	50	7.5	100	100	7	B7G	P
12CU6	020 540 310	A1	12	22	250	150	57	5.8	100	100		AO8	P
12CX6	412 365 100		12.6		12	12	3	3.1	No Data Available			B7G	P
12CY6	412 365 100		12.6		12	12	1.6	3.2	No Data Available			B7G	P
12D4	**1 *8* 230		12						D			AO8	D
12D26	412 365 100		12.6		12	12	4.5	3.8	No Data Available			B7G	P
12DA6	041 230 651		12	1	200	100	12	4.4	100	100		B9A	P
12DB5	614 234 1*6		12.6	9.6	200	125	46	8	100	100		B9A	P
12DE8	418 236 151		12.6	0.8	12	12	1.3	1.5				B9A	DP
12DF5	801 229 013		6.3				30		REC		15mA	B9A	RR
12DF7	641 227 413		6.3	2	250		1.2	1.6	100		1.2	B9A	TT
12DJ8	641 237 410		12.6	1.3	100		15	12.5	No Data Available			B9A	TT
12DK5	141 230 651		12.6		12	12	2	3.3	No Data Available			B9A	P
12DK6	412 387 100		12.6	0.9	125	125	12	9.8	100	100	8.4	B7G	P
12DK7	141 223 651		6.3		12	12	6	5	No Data Available			B9A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
12DL4	414 234 464		12		150		12.5	14	No Data Available			B9A	T
12DL6	815 236 419		12.6	2.5	12	12	3.8	6.5	No Data Available			B9A	DDP
12DL8	814 236 519		12.6	0.5	12	12	40	15	No Data Available			B9A	DDP
12DM4	0*1 080 230		12.6				180		REC	35mA		B9A	R
12DM5	142 345 600		12.6	7.5	150	100	49	7.5	100	100		B7G	P
12DM7	641 227 413		6.3	2	250		1.2	1.6	100		1.2	B9A	TT
12DQ6	020 540 310	A1	12	22.5	250	150	75	6.6	100	100		AO8	P
12DQ7	141 223 651		6	2.1	100	125	26	10.5	100	100		B9A	P
12DS7	805 236 419		12.6	2	12	12	40		No Data Available			B9A	DDP
12DT1	412 389 600		12.6	3	250		1	1.2	100		1.2	B7G	DDT
12DT2	412 389 600		12.6	2	250		1.1	1.6	100		1.6	B7G	DDT
12DT5	504 234 1*6		12.6	16.5	250	250	38	6.2	100	100		B9A	P
12DT6	412 365 100		12.6	2.2	150	100	1.1	1.8	150	100	2	B7G	P
12DT7	641 227 413		6.3	2	250		1.2	1.6	100		1.6	B9A	TT
12DT8	741 236 410		12.6	2.5	250		10	5.5	100		4	B9A	TT
12DU7	415 236 8*9		12.6		12	12	12	6.2	No Data Available			B9A	DDP
12DV7	198 226 413		12.6		12		0.4	0.7	No Data Available			B9A	DDT
12DV8	914 236 518		12.6	1.0	12.6	12.6	6.8		No Data Available			B9A	DDP
12DW5	504 234 106		12.6	22.5	200	150	55	5.5	100	100		B9A	P
12DW7	641 337 412		6.3	2	250		1.2	1.6	100		2.5	B9A	TT
				8.5	250		10.5	2.2	100		3.5		
12DW8	641 237 418		12.6	0	12.6		1.9	2.7	No Data Available			B9A	DDT
				0	12.6		7.5	6.5					
12DY8	415 237 164		12.6		12	12	1.2	2	No Data Available			B9A	TP
					12		14	6					
12DZ6	412 365 100		12.6		12	12	4.5	3.8	No Data Available			B7G	P
12DZ8	414 236 517		12		150		0.8	1.4	100		1.6	B9A	TP
					150	125	45	7.5	100	100	9.0	AO8	P
12E1	020 540 310	A1	6	18	150	150	75	9.8	100	100	10		
12E1C	*36 541 210		6.3	20	300	150	90	10	No Data Available			AO8	P
12E4	541 237 464		12.6	2.6	200		5.4		100	60		B9A	TH
12E5	026 040 310		12.5	13.5	200	100	3.7		100	100			
					250		5	1.4	100		1.4	AO8	T
12E8	027 546 310	G1	12	2	100		3.3		100	60		AO8	TH
					100	100	3	0.5	100	100	0.5		
12E14	*36 541 210		6.3	20	300	150	90	10	No Data Available			AO8	P
12EA6	412 365 100		12.6		12	12	3.2	3.8	No Data Available			B7G	P
12EC8	461 237 514		12.6		12	12	2.4	4.7	No Data Available			B9A	TP
					12	12	0.6	2					
12ED5	142 345 600		12.6	4.0	100	100	32	8.1	100	100	9	B7G	P
12EF6	026 540 310		12.6	18	250	250	50	5.0	100	100		AO8	P
12EG6	412 365 400		12.6	0.8	12.6	12.6	0.4	1.0	No Data Available			B7G	H
12EH5	142 345 600		12.6	3.2	100	125	42	14.6	100	125		B7G	P
12EK6	412 365 100		12.6		12	12	4.4	4.2	No Data Available			B7G	P
12EL6	462 398 100		12.6		12		0.7	1.2	No Data Available			B7G	DDT
12EM6	415 236 **8		12.6		12	12	6	5	No Data Available			B9A	DP
12EN6	026 540 310		12.6	9.5	200	100	50	8.0	100	60		AO8	P
12EQ7	141 235 680		12.6		100	100	9	3.9	100	100		B9A	DP
12ES5	142 360 100		12.6	1	200		10	9.4	100			B7G	T
12EX6	412 365 100		12.6	1.0	12	12	2.4	4	No Data Available			B7G	P
12EZ6	412 365 100		12.6	0.7	12	12	1.9	2.7	No Data Available			B7G	P
12F	280 300 000		5				60		REC	20mA		UX4	R
12F5	020 600 310	G1	12.5	2	250		0.9	1.5	150		1.5	AO8	T
12F8	856 239 141		12.6	0	12	12	1	1	No Data Available			B9A	DDP

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
12F31	412 365 100		12	1	100	100	10.8	4.3	100	100	4.3	B7G	P
12FK6	412 389 600		12.6		12		1.3	1.2	No Data Available			B7G	DDT
12FM6	412 398 600		12.6		12		1	1.3	No Data Available			B7G	DDT
12FQ8	747 256 461		12	1	200		3	1.5	100		1.5	B9A	TT
12FR8	414 325 786		12.6	{ 0.6 0.8	12 12		1 1.9	1.2 2.7	No Data Available			B9A	DTP
12FT6	412 389 600		12.6		12		2	1.9	No Data Available			B7G	DDT
12FX8	547 324 161		12.6	{	12.6 12.6		1.3 0.3	1.4 0.3	No Data Available			B9A	TH
12FX8A	547 324 161		12.6	{	12.6 12.6		1.3 0.3	1.4 0.3	No Data Available			B9A	TH
12G4	602 364 100		12	8	250		10	3	100		3	B7G	T
12G7	026 980 310	G1	12.5	3	250			1.2	100			AO8	DDT
12G8	714 226 143		6.3	12.6			7.2	2.6	No Data Available			B9A	TT
12GA6	412 366 100		12.6		12.6		3.6	2.4	No Data Available			B7G	O
12GB3	*2* 540*310	A1	12.6	7.7	100	100	100	14	No Data Available			AO8	P
12GB6	020 540 070	A1	12.6	22.5	250	150	57	5.9	100	100	5	AO8	P
12GB7	020 540 310	A	12.6	7.7	100	100	100	14	No Data Available			AO8	P
12GJ5	541 234 5**	A1	12.6	22.5	250	150	70	7.1	100	100		B9D	P
12GK17	001 080 230		12.6				120		REC		30mA	AO8	R
12GN6	412 365 800		12.6	68	250	100	11	4.4	100	100		B7G	DP
12GN7	141 230 651		12.6	2	250	150	28	36	100	100		B9A	P
12GT5	541 324 5*6		12.6	22.5	250	150	70	7.1	100	100		B9D	P
12GW6	020 540 310	A1	12.6	22.5	250	150	70	7.1	100	100		AO8	P
12H1C	416 147 230		12.6	6.5	200		7.6	1.9	100			AO8	TT
12H4	623 364 100		6	8	250		9	2.6	90		3	B7G	T
12H6	029 180 310		12.5						D		4	AO8	DD
12H10C	064 471 230		12.6	2	250		2	1.3	100			AO8	TT
12H31	412 365 400		12.6		100	100	2.8	0.4	100	100	0.4	B7G	H
12J5	026 040 310		12	8	250		9	2.6	100		2.6	AO8	T
12J7	026 510 310	G1	12.5	3	250	100	2	1.225	100	100	2.2	AO8	P
12J8	415 236 189		12.6		12	12	12	5.5	No Data Available			B9A	DDP
12JB6	541 234 51*	A1	12.6	22.5	250	150	70	7.1	100	100		B9D	P
12JN8	481 238 715		12.6	{ 1 1	125 125	125	12 13.5	7.5 8.5	100	100		B9A TP	
12JT6	541 231 5*6		12.6	22.5	250	150	70	7.1	100	100		B9D	P
12K5	142 355 600		12.6	2	12	12	8	7	No Data Available			B7G	P
12K7	026 510 310	G1	12.5	3	250	125	10.5	1.65	100	100	1.6	AO8	P
12K8	027 546 310	G1	12.5	{ 1 3	100 250		8 4	2.5 1.2	100 100	60 100	3 1.6	AO8 TH	
12L6	026 540 310		12	8.25	200	125	46	8	100	100	8	AO8	P
12L8	414 752 360		12.5	9	200	175	13	2.1	100	100	2.1	AO8	PP
12M7	026 510 310	G1	12	2.5	100	100	6	2.2	100	100	2.2	AO8	P
12NK7	026 510 310	G1	12.5	2	250	100	5	2.3	100	100	2.3	AO8	P
12P1	412 365 100		12.6	68	250	100	11	4.4	100	100		B7G	P
12P2	412 365 100		12.6	68	250	150	10.6	5.2	100	100		B7G	P
12Q7	026 980 310	G1	12.5	3	250		1	1.2	150		1.2	AO8	DDT
12R5	142 345 600		12.6	8.5	100	100	40	7	100	100		B7G	P
12RK19	*** 23* **8	C	12.6				180		REC		40mA	B9A	R
12RLL3	641 227 413		12.6		150		10	5.5	100			B9A	TT
12S7	268 154 130		13	2	200	90	5	2	100	100	1.9	B8A	DP
12S8	118 916 230	G1	12.5	2	250		0.9	1.1	150		1.1	AO8	DDDT
12SA7	126 641 340		12.5	3.6	100		12	4.3	100		4.5	AO8	H

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE	
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
12SC7	074 461 230		12.5	2	250		2	1.3	150		1.3	AO8	TT	
12SF5	014 060 320		12.5	2	250		0.9	1.5	150		1.5	AO8	T	
12SF7	041 586 230		12.5	1	250	100	12.9	2	100	100	2	AO8	DP	
12SG7	021 415 360		12.5	1	250	125	11.8	4.7	100	100	4.7	AO8	P	
12SH7	021 415 360		12.5	1	250	150	10.8	4.9	100	150	4.9	AO8	P	
12SJ7	021 415 360		12.5	3	250	100	3	1.65	100	100	1.6	AO8	P	
12SK7	021 415 360		12.5	3	250	100	9.2	2	100	100	2	AO8	P	
12SL7	461 471 230		12.5	2	250		2.5	1.6	150		1.6	AO8	TT	
12SN7	461 471 230		12.5	8	250		9	2.6	100		2.6	AO8	TT	
12SQ7	041 896 230		12.5	2	250		0.9	1.1	150		1.1	AO8	DDT	
12SR7	041 986 230		12.5	9	250		9.5	1.9	100		1.9	AO8	DDT	
12SS7	021 415 360		12.5	3	250	100	9	1.85	100	100	1.8	AO8	P	
12SW7	041 986 230		12.5	9	250		9.5	1.9	100		1.9	AO8	DDT	
12SX7	471 461 230		12.5	8	250		9	2.6	100		2.6	AO8	TT	
12SY7	126 641 340		12.5	1	100		22	4.5	100		4.5	AO8	H	
12TE8	427 546 310		12	}	100		3.4		100	60		}	AO8	TH
					250	100	3.7		100	100				
12TE9	651 237 440		12		100		3.4	0.75	100	60			B9A	TH
				250	100	3		100	100					
12U7	741 226 413		6		12		1.2	1	No Data Available			B9A	TT	
12V6	026 540 310		12.5	12.5	250	250	45	4.1	100	150	4	AO8	P	
12W6	026 540 310		12	9.5	150	150	58	8.0	100	100	8.0	AO8	P	
12WC5	265 414 300		12	1.5	250	100			No Data Available			UX7	P	
12X3	210 300 000	D1	12.5				60		REC		20	UX4	R	
12X4	802 309 100		12.5				30		REC		15mA	B7G	RR	
12Y4	892 310 000		12				31		REC		15mA	UX4	RR	
12Z3	281 300 000		12.6				30		REC		15mA	UX4	R	
12Z4	281 300 000		12.5				60		REC		60mA	UX4	R	
12Z5	281 319 200		6				30		REC		15mA	UX7	RR	
12ZDH3A	264 813 000		12	2	250		1.5	1.5	125		1.2	UX6	DT	
12ZP1A	265 413 000		12	9	200	200	30	2.3	100	150		UX6	P	
13	298 300 000		5				60		REC		20mA	UX4	RR	
13BCIU	206 081 930	G1	2.5	1.8	200		3	2	150		2	B8B	DDT	
13BF2U	206 581 930	G1	12.5	2.1	200	200	5	2	100	200	2	B8B	DDP	
13CM5	020 540 310	A	12.8		100	100	100	14	100	100		AO8	P	
13D1	461 471 230		25	8	250		2	2.6	100		2.5	AO8	TT	
13D2	461 471 230		6	8	250		9	2.6	100		2.6	AO8	TT	
13D3	741 226 413		6	4.6	250		6	2.3	100		2.3	B9A	TT	
13D5	751 226 413		6.3	8.5	250			1.6	100		1.8	B9A	TT	
13D7	146 231 074		6.3		250		2.2	3.3	100			B9A	TT	
13D8	741 226 413		6.3	8.5	250		10.5	2.2	100		2.2	B9A	TT	
13D9	741 226 413		6.3	2	200			5.7	100		1	B9A	TT	
13DE7	644 237 410		13	}	250		5.5	2	100			}	B9A	TT
					17.5	150		32	6.5	100				
13DHA	908 231 600	G1	13	1.5	250		1	1.5	100		1.5	B7	DDT	
13DR7	644 237 410		13	}	250		1.4	1.6	100			}	B9A	TT
					17.5	150		35	6.5	100				
13EM7	471 461 230		13	}	150		50	7.2	100			}	B9A	TT
					3	250		1.4	1.6	100				
13F7	023 110 560	G1	13	2	200	100	3	3.1	100	100		8SC	P	
13F9U	206 501 130	G1	12.5	2.6	200	200	6.2	2.2	100	200	2.2	B8B	P	
13FD7	644 237 411		6.3	}	250		6	1.6	100			}	B9A	TT
					17.5	150		45	7.5	100				

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
13FG7	141 236 074		13	{ 20 3	150 250		50 1.4	7.2 1.6	100 100			B9A	TT
13FR7	644 237 411		13	{ 3 20 20	250 150 150		1.4 50 50	1.6 7.2 7.2	100 100 100			B9A	TT
13GF7	541 237 064		13	{ 3 3	250 250		1.4 1.6	1.6 1.6	100 100		1.6	B9D	TT
13H1	023 110 560	G1	3	2	200	100	3	2	100	100	2	8SC	P
13H2	023 110 560	G1	13	3	200	100	8.2	1.8	100	100	1.8	8SC	P
13PGA	645 231 700	G1	13	{ 20 3	200 250	100	4 3.5		100 100	60 100		B7	H
13SPA	061 231 500	G1	13	3	200	100	2.3	1.7	100	100	2.2	B7	P
13V1	013 189 560	G1	13	8.5	200	200	45	4.4	100	150	4	8SC	DDP
13VPA	061 231 500	G1	13	3	200	100	7	1.8	100	100	1.8	B7	P
14	265 130 000	G1	14	3	250	90	4	1	100	90	1	UX5	P
14A4	260 0*4 130		12.5	8	250		9	2.6	100		2.6	B8B	T
14A5	265 004 130		12.5	12.5	250	250	30	3	100	150	3	B8B	P
14A7	265 104 130		12.5	3	250	100	9.2	2	100	100	2	B8B	P
14AF4	216 447 130		12	10	250		9	2.1	100		2	B8B	TT
14AF7	216 447 130		12.5	9	250		9	2.1	100		2.1	B8B	TT
14B6	264 *89 130		12.5	2	250		0.9	1.1	150		1.1	B8B	DDT
14B8	265 454 130		12.5	2	250	100		1.1	100	100	1.1	B8B	H
14C5	265 004 130		12.5	12.5	250	250	47	4.1	100	150	4.1	B8B	P
14C7	265 114 130		12.5	3	250	100	2.2	1.5	100	100	1.5	B8B	P
14E6	264 *98 130		12.5	8	250		9.3	1.9	100		1.9	B8B	DDT
14E7	269 854 130		12.5	3	250	100	7.5	1.3	100	100	1.3	B8B	DDP
14F6	026 540 310		14	16.5	250	250	35	2.5	100	150	2.5	AO8	P
14F7	217 446 130		12.5	2	250		2.3	1.6	150		1.6	B8B	TT
14F8	427 116 340		12.5	3	250		6	3.3	150		3.3	B8B	TT
14GT8	181 239 146		14	3	250		0.7	1.0	100			B9A	DDT
14GW8	415 237 146		14.7	{ 1.7 7	250 250	250	1.2 36	1.6 10	100 100	60 100	1.6	B9A	TP
14H7	265 114 130		12.5	2	250	150	10	4.2	100	100	4.2	B8B	P
14J7	276 454 130		12.5	{ 3 3	150 250	100	6.6 1.4	1.4	100 100	60 100	1.4	B8B	TH
14JG8	181 239 146		14	2	250		2	2.2	100			B9A	DDT
14K7	276 454 130		14	{ 2 2	100 200	90	6.4 2.7	2.2 1.5	100 100	60 75	2.8 1.5	B3A	TH
14L7	264 098 130		14	1.6	200		15	1.65	150		1.6	B8A	DDT
14N7	217 446 130		12.5	8	250		9	2.6	100		2.6	B8B	TT
14Q7	266 414 130		12.5	2	100		15	6	100		4.5	B8B	H
14R7	269 854 130		12.5	1	250	100	6.2	3.4	100	100	3.4	B8B	DDP
14S7	276 454 130		12.5	{ 1 2	100 250	100	4.8 4	1.4 2	100 100	60 100	1.6 2.2	B8B	TH
14V7	265 104 130		12.5	2	300	150	9.6	5.8	100	100	5.8	B8B	P
14W7	265 114 130		12.5	2.2	300	150	10	5.8	100	100	5.8	B8B	P
14X7	264 189 130		12.5	1	250		1.9	1.5	150		1.5	B8B	DDT
14Y4	208 009 130		12.5				30		REC		15mA	B8B	RR
14Z3	281 300 000		12.5				60		REC		20mA	UX4	R
15	264 300 000		2.5	33	250		22	2.35	100		2.0	UX4	T
15	265 130 000	G1	2	1.5	150	75	1.85	0.75	100	75	0.75	UX5	P
15A2	645 231 700	G1	4	{ 20 3	200 250	100	4 3.5		100 100	60 100		B7	H
15A6	451 231 600		15	2.9	200	175	36	10	100	100	9	B9A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
15A8	124 451 360	A2	15	{ 8 7.5	250 100		9 45	2.6 7.3	100 100	60 100	2 7.5	} AO8	TP
15BD7A	641 238 090		15	1.5	200		1.5	1.6	100		1.6		B9A
15CW5	*51 23* 6*5		15	12.5	200	175	70	10	100	60		B9A	P
15D1	645 231 700	G1	13	{ 20 3	200 250		4 3.5		100 100	60 100		} B7	H
15D2	645 231 700	G1	13	{ 20 3	200 250	100	4 3.5		100 100	60 100	0.6 4.6		B7
15DQ8	461 237 145		15	{ 1.7 2.9	200 200	150	3.0 18	4.0 11	100 100	60 100	4.0	} B9A	TP
15E	260 501 300	G1	2		150	75	1.8	0.7	100	60			B7G
15EA7	461 471 230		14.8	25	200		48	6.5	No Data Available			AO8	TP
15EW6	412 365 100		15		150	120	11	14	No Data Available			B7G	P
15F80	541 231 600		15		200	200	36	10	No Data Available			B9A	P
15KY8A	141 237 564		15	{ 3 10	250 150		1.4 39	1.6 8.4	100 100	60 100		} B9D	TP
15LE8	011 236 154		15	2.5	100	100	8	5.8	100	100	5.8		B9A
15TP7	461 237 145		15	{ 1.7 2.9	200 200	200	3 18	4 10.4	100 100	60 100	4	} B9A	TP
15X6	029 180 310		25				30		REC		15mA		AO8
16	280 300 000		7.5				60		REC		20mA	UX4	R
16A5	*41 23* 6*5		16	14.2	200	200	45	7.5	100	100	7	B9A	P
16A8	414 237 516		16	{ 1.5 11.5	200 200		1.7 41	2.4 7.5	100 100	60 100	3 6	} B9A	TP
16AQ3	*** 23* **8	C	16.4				180		REC		40mA		B9A
16B	280 300 000		7.5				60		REC		15mA	UX4	R
16GK6	141 230 651		16	7.4	250	250	48	11.3	No Data Available			B9A	P
16GK8	414 237 516		16	{	200 250		10 30	3.4 7.5	100 100	60 100		} B9A	TP
16N8	414 237 516		15	{ 16	100 200	200	3.3 35	3.6 6.4	100 100	60 100	3.6		} B9A
16TP6	141 234 675		16	{ 11.5	100 200	175	3.5 41	2.5 7.5	100 100	60 100	2.5	} B9A	
16TP8	141 234 675		16	{ 11.5	100 200	175	3.5 41	2.5 7.5	100 100	60 100			} B9A
17	264 130 000		14	6	90		2.7	0.8	80		0.8	UX5	
17AV5	421 060 350		16	22.5	250	150	57	5.9	100	100	5.8	AO8	P
17AX4	001 080 230		16.8				120		REC		35mA	AO8	R
17AX4GTA	001 080 230		16.8				120		REC		35mA	AO8	R
17AY3	*8* 23* 810		16.8				120		REC		30mA	B9D	R
17BH3	*8* 23* 8*1		17				180		REC		35mA	B9D	R
17BQ6	020 540 310	A1	17	22.5	250	150	75	6.6	125	100		AO8	P
17BS3	*8* 23* 8*1		16.8				120		REC		40mA	B9D	R
17C5	142 345 600		16	7.5	150	100	49	7.5	100	90	6	B7G	P
17C8	541 236 891		17	2	200	125	5	2.2	100	100	2	B9A	DDP
17CA5	142 345 600		16.8	4.0	100	100	32	8	100	60		B7G	P
17CU5	142 345 600		16.8	7.5	100	100	49	7.3	100	100		B7G	P
17D1	869 231 500	G1	13	3	250	125	9	1.1	100	100	1.1	B7	DDP
17D4	**1 *8* 230		16.8				145		D			AO8	D
17D4A	**1 *8* 230		16.8				180		REC		40mA	AO8	R
17DA4	001 080 230		16.8				120		REC		30mA	AO8	R
17DE4	001 080 230		17				120		REC		30mA	AO8	R
17DM4	001 080 230		16.8				180		REC		35	AO8	R
17DQ6	020 540 310	A1	16	22.5	250	150	75	6	125	100		AO8	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
17EW8	741 236 410		17	1.1	100		4.5	4.6	100		4.6	B9A	TT
17F6	041 230 665		17	23	250	200	53	5.0	100	100		B9A	P
17FL8	541 236 891		17	1.5	200	100	11	4.5	100	100	4.5	B9A	DDP
17GJ5	541 234 5**	A1	16.8	22.5	250	150	70	7.1	100	100		B9D	P
17GT5	541 234 506		16.8	42	250	150	70	7.1	100	100		B9A	P
17GW6	020 540 310	A1	16.8	22.5	250	150	70	7.1	100	75	4.5	B3A	P
17GW8	415 237 146		16.8	{ 1.7	250		1.2	1.6	100	60		B9A	TP
17H3	108 230 080		17.5	{ 7.0	250	250	36	10	100	100			
17HC8	414 237 516		16.8	{ 3	250		1.4	2	100	60		B9A	TP
17JB6A	541 234 51*	A1	16.8	{ 18	250	250	38	5.1	100	100			
17JG6	541 231 5*6		16.8	22.5	250	150	70	7.1	100	100		B9D	P
17JK8	714 236 410		16.8	{ 1.0	100	100	80	10	100	100		B9D	P
				{ 1.3	150		5.3	6.8	100	60	6		
17JT6A	541 231 5*6		16.8	22.5	250	150	70	7.1	100	100		B9A	TT
17L6	026 540 310		16.8	7.0	100	100	49	8	100	100		B9D	P
17LD8	101 236 564		16.8	{ 5	150		3.3	1.9	100		4	B9A	TP
17N8	541 236 891		17	{ 8	125	100	44	7.1	100	100	7.7		
17R5	142 345 600		16.8	2	200	75	5	2.2	100	75	2	B9A	DDP
17R7	*** 23* **8	C	17				120		REC			B7G	P
17W6	026 540 310		16.8	9	200	125	46	8	100	100	6.8	B9A	R
17Z3	*** 23* **8	C	17				120		REC		40mA	AO8	P
18	265 413 000		14	16.5	250	250	34	2.5	100	150	2.5	B9A	R
18A5	421 060 350		18	17	200	125	40	4.8	100	100		UX6	P
18AK5	412 365 100		18	2.5	150	125	7.7	5.1	125	100	5.1	AO3	P
18AQ5	412 365 100		18	7.2	150	175	28	3.5	100	125	3.5	B7G	P
18C51	214 607 413		18	2	150		8.2	5.5	125		5.4	B9A	TT
18D2	641 237 514		9.5	{ 1.8	150		12.5	10	100	60		B9A	TP
				{ 1.6	200	175	10	10	100	100			
18D3	645 237 114		6.3	{ 1	150		18	8.5	100	60		B9A	TP
				{ 2	150	150	7	11	100	100			
18DG6A	412 365 100		18	1	100	100	5	4.3	100	100	4.3	B7G	P
18DZ8	414 237 516		18	{	100		0.8	1.4	100	60		B9A	TP
				{	150	125	45	7.5	100	100			
18F24	261 154 130		18	2.1	250	200	15	10.5	100	100		AO8	P
18FW6	412 365 100		18	1	100	100	11	4.4	100	100	4.4	B7G	P
18FW6A	412 365 100		18	1	100	100	11	4.4	100	100	4.4	B7G	P
18FX6	412 365 100		18	1	100	100	24	7	100	100		B7G	O
18FY6	412 389 600		18	1	100		0.6	1.3	100		1.3	B7G	DD1
18GD6	141 230 651		18		100	100	5	4.3	100	100		B9A	P
18GE6	142 360 100		18	1	100		1	1.7	100		1.7	B7G	T
18GV8	641 237 514		18	{	100		10	5.5	100	60	5	B9A	TP
				{	150	150	41	7.5	100	100			
18HB8	416 235 714		18	{	100		2.5	3.9	100	60		B9A	TP
				{	100	100	32	6.2	100	100			
18J6	672 344 100		18	1	100		6.5	5	100		5	B7G	TT
19	364 472 000		2	3	150		1.7		100			UX6	TT
19A3	002 283 100		9.5				60		REC		20mA	B7G	R
19AJ8	541 237 164		19	{ 3	100		5	2.3	100	60	2.3	B9A	TH
				{ 2	250	100	6.5	2.4	150	100	2.4		
19AQ5	412 365 400		19	12.5	250	200	47	4.1	100	150	4	B7G	P
19AU4	**1 080 230		19				120		REC		40mA	AO8	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
19BD	**1 23* **8		19				60			REC	16mA	B9A	R
19BG6	021 040 350	A1	19	15	250	250	75	6	100	150	6	AO8	P
19BY7	141 213 651		19	2	175	100	9.7	5.9	200	100	6	B9A	P
19C8	8†1 239 146		19	1	100		0.5	1.2	100		1.2	B9A	DDDT
19CL8	461 237 514		18.9	{ 0.85 1	150 150		15 12	8 5.8	100 100	60 100	8 5	B9A	TP
19D8	541 237 464		19	{ 2.6 2	100 200		13.5 7.6	3.7 2.4	100 100	60 100	3.7 2.4	B9A	TH
19DC8	541 236 891		19	2	250	100	9	3.8	100	100		B9A	DDP
19DE7	644 237 411		19.5	{ 11 17.5	250 150		5.5 35		100 100			B9A	TT
19EA8	645 237 114		18.9	{ 1 1	150 150	125	18 12	8.5 6.4	100 100	60 100	8	B9A	TP
19EH7	141 230 651		19	2	200	100	13	13	No Data Available			B9A	P
19EJ7	141 230 651		18.9	2.5	200	200	10	15	No Data Available			B9A	P
19FL8	541 236 891		19	1.5	200	100	11	4.5	100	100		B9A	DDP
19G3	020 000 300	D1	4				30		REC		17mA	AO8	R
19G6	112 311 100	D1	4				30		REC		15mA	B7G	R
19GQ7	1†* 239 181		18.9				5		D			B9A	DDD
19GV8	641 237 514		18.9	{ 0.6	100	200	41	6.5	100	60	6.5	B9A	TP
19H1	002 300 000	D1	4				60		REC		23mA	B4	R
19H4	020 000 300	D1	2.5				30		REC		13mA	AO3	R
19HR6	412 365 100		18.9	1.2	200	100	13.2	8.5	100	100		B7G	P
19HS6	412 365 100		18.9	0.8	150	75	8.8	9.5	100	100		B7G	P
19HV8	461 237 514		18.9	{ 1.0 1.0	100 150	150	0.8 13	1.3 7	100 100	60 100	1.3 6	B9A	TP
19J6	762 344 100		19	1	100		8.5	5.3	100		5.3	B7G	TT
19JN8	481 238 715		18.9	{ 1 1	125 125	125	12 13.5	7.5 8.5	100 100		6.7 7.6	B9A	TP
19MR9	412 365 400		19	2.5	100	100	7	3.5	100	100	4	B7G	P
19MV5	412 365 400		19	2	150	125	10	3.5	100	100	3.5	B7G	P
19Q9	578 231 148		18.9	{ 1 1	125 125	125	14 12	8 6.5	100 100	100	8.9 7	B9A	TP
19R3	001 230 008		19				180		REC		40mA	B9A	R
19RLL1	214 607 413		19	1.7	150		9	5.5	100		6	B9A	TT
19RLL2	641 237 410		19	8.5	250		10.5	2.2	100		2	B9A	TT
19RP11	401 236 514		19	7	100	100	35	5.5	100	100		B9A	P
19SU	**1 23* **8		19				120		REC		30mA	B9A	R
19T8	†91 238 146		19	3	250		1.0	1.2	150		1.2	B9A	DDDT
19U3	**1 23* **8		19				120		REC		40mA	B9A	R
19V8	681 234 †19		19	3	250		1.0	1.2	100		1.3	B9A	DDDT
19W3	**1 23* *08		19				120		REC		35mA	B9A	R
19X3	**1 23* **8		19				120		REC		60mA	B9A	R
19X8	146 231 457		19	{ 1 1.8	100 250	150	8.5 7.7	5.8 5.6	100 100	60 150	5 4	B9A	TP
19Y3	**1 23* **8		19				120		REC		60mA	B9A	R
19Y40	001 230 008		19				180		REC		40mA	B9A	R
20	364 200 000		3	16.5	90		3	0.4	80		0.4	UX4	T
20A1	645 231 700	G1	4	{ 12.5 1.5	100 250	75	2.3 2.2		100 100	60 75	1.2 2.8	B7	TH
20A3	412 316 100		6		400		50	6	No Data Available			B9A	P
20CH4U	216 544 730	G2	20	{ 2	200	100	4.1 3.5	0.75	100 100		2.8 2.5	B8A	TP
20D1	182 310 900		9.5				5		D			B7G	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
20D2	645 231 600	G1	13	{ 7.5 3	100 250	100	3.8 2.5		100 100	60 100		B7	TH
20D3	541 227 463		6	{ 1 3	100 250	100	3.6	3.6	100 100	60 100	3.6	B9A	TH
20D4	541 237 164		6.3	{ 2	100 250	100	15 7	3.5 2.8	100 100	100	3.3	B9A	TH
20EQ7	141 235 680		20		100	100	9	10.9	100	100		B9A	DP
20EZ7	223 146 741		10	1.0	150			1.6	100		1.6	B9A	TT
20F2	260 154 130		11	1.2	150	150	27	10.6	100	100	9	B8A	P
20J8	027 546 310	G1	20	{ 1.5 3	100 250	100	1.5		100 100	100		AO8	H
20L1	274 164 130		12	12	250		10	2.8	100		2.8	B8A	TT
20P1	020 540 310	A1	38	30	200	200	80	6	100	100	5	AO8	P
20P2	020 540 310	A1	38	7.5	250	250		13.5	100	100	10	AO8	P
20P3	026 540 310		20	9.4	200	175	42	7.2	100	100	6	AO8	P
20P4	020 540 310	A1	38	33	200	200	100	6	No Data Available			AO8	P
20P5	260 054 130		20	6.3	200	150	29	7.5	100	100	7	AO8	P
20RDHV1	145 237 864		20	{ 2 1	250 250	100	1.2 9	1.2 3.5	100 100	60 100	1.5 3	B9A	DTP
20Y1	023 100 080		20				60		REC		20mA	F8	R
20Y40	000 230 008	C	20				120		REC		30mA	B9A	R
21	265 413 000		6.3	45	400	300	65		100	100		UX6	P
21A6	*41 23* *51	A1	21.5	28	200	200	40	6.0	100	100		B9A	P
21A7	276 454 130		21	{ 3	150 250	100	3.5 1.3	0.3 1.9	100 100	60 100		B8B	TH
21B6	041 230 051	A1	21	23	200	200	45	6.5	100	100		B9A	P
21CW7	146 234 117		21	1.5	90		12	6	80		6	B9A	TT
21DJ8	641 237 410		21	1.3	90		15	12.5	No Data Available			B9A	TT
21ES8	641 237 410		21	1.3	100		15	12.5	No Data Available			B9A	TT
21EX6	021 040 350	A1	21.5		200	150	67	7.7	100	100		AO8	P
21L40	041 231 051	A1	21.5	28	200	200	40	6	100	100		B9A	P
21LR8	141 236 564		21	{ 4 10	250 150	125	2.3 56	3.6 9.3	100 100	100	3.2 7.3	B9A	TP
21TH8	027 546 310	G1	21	{ 2.5 1.5	100 200	90	4 3	2 0.7	100 100	60 90	2	AO8	TH
22	365 200 000	G1	3	1.5	150	50	1.7	0.3	125	60	0.5	UX4	P
22AC	265 300 000	G1	2.5	3	90	90	4	1.05	80	90	1	UX4	P
22AQ3	*** 23* **8	C	22				180		REC		20mA	B9A	R
22BH3	*8* 23* 8*1		22.4				180		REC		40mA	B9D	R
22DE4	001 080 230		22.4				120		REC		30mA	AO8	R
22FC7	146 234 117		21.6	1.2	90		15	12.3				B9A	TT
22JG6	541 231 5*6		22		150	150	80	10	No Data Available			B9D	P
22JU6	541 234 51*	A1	22	20	150	100	45	7	100	100		B9D	P
22S/101G	182 310 900		6.3				5		D			B7G	R
23	205 411 300	A1	2.5	90	400	150	43		No Data Available			UX7	P
24	264 300 000		2	13.5	200		8	1.6	100		1.2	UX4	T
24A	265 130 000	G1	2.5	3	200	90	4	1	100	90	1	UX5	P
24E	265 130 000	G1	2.5	3	200	90	4	1	100	90	1	UX5	P
24NG	281 193 000		40				30		REC		15mA	UX6	RR
24S	265 130 000	G1	2.5	3	200	90	4	1	100	90	1	UX5	P
25	268 943 000		2	3	150		1.0	0.5	125		0.5	UX6	DDT
25	205 411 300	A1	6.3	90	400	150	43		No Data Available			UX7	P
25A6	026 540 310		25	18	150	125	33	2.3	100	90	3.5	AO8	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE	
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
25A7	126 548 310	G1	25	{ 15 0 0	100	100	60	1.8	REC	90	20mA	} AO8	RP	
25ACID	206 008 030		1.4		150		20.5	0.4	100		0.3		AO8	DT
25AC5	026 040 310		25		200		0.76	3.8	100		3.5		AO8	T
25AV5	421 060 350	G1	25	{ 22.5 22 1 3	250	150	57	5.9	100	100	5.8	} AO8	P	
25AX4	001 080 230		25		150		120		REC	30mA	AO8		R	
25B6	026 540 310		25		150	150	61	5	100	100	5		AO8	P
25B8	127 561 340		25		100		0.6	1.5	100	60	1.5		} AO8	TP
					100	100	7.6	2	100	100	2			
25BG6	021 040 350	A1	25	22	150	150	70	5	No Data Available			AO8	P	
25BK5	604 231 450	A1	25	5	250	250	35	8.5	100	150	8	B9A	P	
25BQ6	020 540 310		25	22.5	250	150	55	5.5	100	100		AO8	P	
25C5	142 345 600		25	7.5	150	100	49	7.5	100	90	6	B7G	P	
25C6	026 540 310		25	14	200	150	61	7.1	100	100	7	AO8	P	
25CA5	142 345 600		A1	25	4.5	150	125	36	9.2	125	125	9.2	B7G	P
25CD6	021 040 350			25	30	200	200	75	7.5	100	100	7.5	AO8	P
25CR5	154 231 541	A1	25	22.5	250	150	65	6	100	100		B9A	P	
25CU6	020 540 310		25	23	250	150	60	6	No Data Available			AO8	P	
25D4	001 080 230		25					120		REC	30mA		AO8	R
25D8	127 546 380	G1	25	{ 1 3	100		0.5	1.1	100	60	1.1	} AO8	DTP	
25DK4	002 380 100		25		100	100	8.5	1.9	100	100	1.9			
25DN6	021 040 350	A1	25	18	125	125	70	9	No Data Available			B7G	R	
												AO8	P	
25DQ6	020 540 310	A1	25	22.5	250	150	75	6	100	100		AO8	P	
25DT5	504 234 1*6		25	16.5	250	250	38	6.5	100	100		B9A	P	
25E2	541 227 365		12.6	{ 2 200	200		6.5		100	100		} B9A	TH	
					100	100	4		100	100				
25E5	020 540 310		A1	25	21	200	200	100	11	No Data Available			AO8	P
25EC6	021 040 350	A1	25	23	125	125	70	7.5	No Data Available			AO8	P	
25EH5	142 345 600	A1	25	3.2	100	125	42	14.6	No Data Available			B7G	P	
25F5	142 345 600		25	7.5	100	100	37	5.8	No Data Available			B7G	P	
25F7	020 540 310		25	21	150	150	100	11	100	100		AO8	P	
25FG6	*2* 540 310		25	21	200	175	100	100	11	No Data Available			AO8	P
25FID	206 501 040	G1	1.4	{ 2.5 1.5 13.5	150	125	1.2	0.7	100	100	0.7	} AO8	P	
25FY8	414 237 516		25		150		2.5	2	100	60			} B9A	TP
					125	125	50	7	100	100				
25GB6	020 540 310	A1	25	22.5	250	150	6.5	6	100	100		AO8	P	
25L6	026 540 310		25	8.2	200	125	47	8	100	90	8	AO8	P	
25MK15	002 380 100		25					25		REC	20mA		B7G	R
25RE	281 193 000	DI D2	25				30		REC	15mA	UX6	RR		
25S	268 943 000		2	3	150		0.8	0.6	100	0.6	UX6	DDT		
25SN7	461 471 230		25	8	250		9	2.6	100	2.5	AO8	TT		
25T3G	020 000 310		25				60		REC	15mA	AO8	RR		
25U4	001 080 230		25					120		REC	30mA		AO8	R
25V5	028 190 310		25					60		REC	20mA	AO8	R	
25W4	001 080 230						120		REC	30mA	AO8	R		
25W6	026 540 310	8.5		250	125	46	8	100	100	8	AO8	P		
25W9	001 080 230						120		REC	30mA	AO8	R		
25X4	020 080 310	25						120		REC	30mA		AO8	R
25X5	020 080 310	25					120		REC	30mA	AO8	R		
25X6	028 190 310	25				30		REC	15mA	AO8	RR			
25Y4	020 080 310	25				60		REC	20mA	AO8	R			
25Y5	281 193 000	25				60		REC	40mA	UX6	RR			

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
25Y5G	028 190 310		25				60			REC		40mA	AO8	RR
25Y6	028 190 310		25				30			REC		15mA	AO8	RR
25Z3	281 300 000		25				60			REC		20mA	UX4	R
25Z4	028 080 310		25				120			REC		60mA	AO8	R
25Z5	291 183 000		25				60			REC		60mA	UX6	RR
25Z6	029 180 310		25				60			REC		60mA	AO8	RR
26	264 300 000		1.5	10	150		5.5	1.1		100		1.1	UX4	T
26A6	412 365 100		26	1.8	250	250	10.5	4		100	100	4	B7G	P
26A7	414 752 360		26	4.5	30	30	20	5.5	No Data Available			AO8	PP	
26AE6	*** 23* **8	C	26							D			B9A	R
26AQ8	641 237 410		26	1.5	200		8.7	6		100		6	B9A	TT
26B6	026 540 310		35	18	250	125	33	2.3		100	90	2.3	AO8	P
26BK6	412 389 600		26	2	250		1.2	1.6		150		1.6	B7G	DDT
26BQ6	020 540 310	A1	25	22.5	250	150	55	5.8		100	100		AO8	T
26C6	412 398 600		26	9	250		9.5	1.9		100		1.9	B7G	DDT
26CG6	412 365 100		26		250	150	9	2		100	100		B7G	P
26D6	412 365 100		26	0	100	100	2.7	7.2		100	100	6	B7G	H
26E6	026 540 310		26	14	200	125	60	7.1		100	100	7	AO8	P
26NG	281 193 000		40				30			REC		15mA	UX6	RR
26Z5W	801 229 013		13				30			REC		15mA	B9A	RR
26Z6	801 239 010		26				60			REC		15mA	B9A	RR
27	264 130 000		2.5	21	250		5.2	0.9		100		0.9	UX5	T
27BL8	645 237 114		27	{ 2 2	100 200	175	14 10	5 6.2		100 100	60 100	5	B9A	TP
27HM	264 130 000		2.5	13.5	180		5		No Data Available			B5B	T	
27S	264 130 000		2.5	21	250		5.2	0.9		100		0.9	UX5	T
27SU	320 080 210	13					120			REC		70mA	AO8	R
27SV	230 080 310		13				180			REC		40mA	AO8	R
28AK8	8†1 239 146		28	2	200		1.3	1.5		100		1.4	B9A	DDDT
28AX8	8†1 239 146		28	1	100		0.8	1.4		100		1.4	B9A	DDDT
28D7	245 671 430		28	3.5	30	30	12.5	3.4	No Data Available			B8B	PP	
28Z5	208 009 130		28				60			REC		20mA	B8B	RR
29	264 413 000		2.5	3	200		4.5	1.4		100		1.4	UX6	T
29C1	220 283 330		4				3			D			AO8	D
29GK6	141 230 651		28.6	7.4	250	250	48	11.3	No Data Available			B9A	P	
30	364 200 000		2	9	150		3	0.9		100		0.9	UX4	T
30A5	142 345 600		30	6.7	100	100	43	9.2		100	100		B7G	P
30AE3	*** 23* **8	C	30							D			B9A	D
30C1	645 237 114		9	{ 2 2	100 200	200	14 10	5 6.6		100 100	60 150	5.1 6	B9A	TP
30C13	157 236 414		9	{ 2 2 2	100 200 100	175	14 10 15	5 6.2 6		100 100 100	60 100 60		B9A	TP
30C15	157 236 414		9	{ 2.5 3.2	200 100	150	10 15	9 8.5		100 100	100 60		B9A	TP
30C17	157 236 414		7.4	{ 1.5 3	125 100	125	10 14	11 5.5		100 100	100 60	8	B9A	TP
30C18	657 231 414		7.4	{ 1.5 1.5	125 125	125	10 10	11 8.8		100 100	100 100	3.8	B9A	TP
30F5	141 230 651		7.5	1.8	200	200	10	8.8		100	100		B9A	P
30F27	141 230 651		3.7	1.2	200	150	13.5	15	No Data Available			B9A	P	
30FL1	641 237 541		9.4	{ 7.9 2.1	200 200	200	10 10	3.6 7.5		100 100	60 100		B9A	TP

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
30FL12	641 237 541		10	{ 4.9 2.9	150 200	200	10 10	3.7 12.5	100 100	60 100	3.7 3.4	B9A	TP
30FL13	641 237 541		10	{ 200 200		200	10 10	3.4 12.5	100 No Data Available	60	3.4		B9A
30FL14	657 231 414		7.4	{ 3 1.7	100 150	150	14 12	5.5 14.5	100 100	60 100		B9A	TP
30GP9	026 543 100		30	19	200	200	45	3.5	100	100		AO8	P
30L1	147 234 116		7.5	1.5	90	12		6.0	100		6	B9A	TT
30L15	147 324 116		7	1.2	90		15	9	80		8	B9A	TT
30L17	146 234 117		7.2	0.8	75		15	16.5	No Data Available			B9A	TT
30P4	020 540 310	A1	25	21	200	200	100	11	No Data Available			AO8	P
30P12	*41 23* 6*5		12.6	10.3	200	200	31	6.7	100	100		B9A	P
30P14	026 540 310		13	9.4	200	200	42	7.2	100	100		AO8	P
30P16	041 230 605		16	14.2	200	200	45	8.2	100	100	7	B9A	P
30P18	041 23* 6*5		16	6	200	200	34	10	No Data Available			B9A	P
30P19	*2* 540 310	A1	25	8.5	100	100	100	15	No Data Available			AO8	P
30PL1	641 237 154		13	{ 7.9 9.6	200 200	200	10 28	3.4 6	100 100	60 100		B9A	TP
30PL12	414 237 516		16	{ 0 16	100 200	200	3.5 35	2.5 6.4	100 100	60 100			B9A
30PL13	414 237 516		16	{ 2.2 20	200 250	250	10 45	4.4 17.5	100 100	60 100		B9A	TP
30PL14	414 237 516		16	{ 7.7 15	200 150	150	10 50	3.4 7.6	100 100	60 100		B9A	TP
30X	264 300 000		2	12.5	175		3.1	9.3	100		9	UX4	T
31	364 200 000		2	22.5	150		8	0.9	100		0.9	UX4	T
31A3	280 000 130		31				60		REC		20mA	B8A	R
31AV3	**1 23* **8		31				60		REC		40mA	B9A	R
31BX7	461 471 230		31.5	17	250		42	7.2	No Data Available			AO8	TT
31Z	244 300 000	A1/A2	6	{ 100 15	400 400		75 75	2.8	No Data Available			UX4	TT
32	365 200 000	G1	2	3	150	75	1.7	0.6	100	75	0.6		UX4
32A8	414 237 516		32	{ 1 16	100 200	200	1 35	1.9 6.4	100 100	60 100	7	B9A	TP
32E	365 200 000	G1	2	3	150	75	1.7	0.6	100	75	0.6		UX4
32ET5	142 345 600		32	7.5	100	100	30	5.5	100	100		B7G	P
32L7	126 548 310		32.5	{ 5	90	90	38	6	REC 80		20mA 75	AO8	RP
33	364 520 000		2	14	150	150	14.5	1.4	100	100	1.4		Sm7
33/100A	020 440 310	A1/A2	6	14	300		10	3	No Data Available			AO8	TT
33A/101K	641 227 413		6.3	2	250		1.2	1.6	100			B9A	TT
33A/138A	204 140 300	A1/A2	7	7	250		15	3	100		3	UX7	TT
33A/158M	216 447 130		6	5	200		20	2.8	200		2.8	B8B	TT
33B/152M	421 342 134	A1/A2	6	1	300		40	18.5	No Data Available			B9G	TT
34	204 140 300	A1/A2	6.3	36	300		80	4.4	No Data Available			UX7	TT
34	365 200 000	G1	2	3	150	75	2.8	0.6	100	75	0.6	UX4	P
34E	365 200 000	G1	2	3	150	75	2.8	0.6	100	75	0.6	UX4	P
34GD5	142 315 600		34	7.5	100	100	35	5.7	100	100		B7G	P
35	265 130 000	G1	2.5	3	250	90	6.5	1	100	75	1	UX5	P
35A3	002 380 100		35				60		REC		20mA	B7G	R
35A5	265 004 130		35	8	200	100	41	5.9	100	90	5.9	B8B	P
35B5	412 365 400		35	7.5	150	100	40	5.8	100	90	5.8	B7G	P
35C3	002 380 100		35				60		REC		20mA	B7G	R
35C5	142 345 600		35	7.5	150	100	40	5.8	100	90	5.8	B7G	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE	
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
35CD6	021 040 350	A1	35	30	200	175	75	7.7	100	100		AO8	P	
35D5	401 236 050		35	10.5	200	175	52	9.5	100	100		B9A	P	
35DZ8	414 237 516		35	}	150		0.8	1.4	100	60		} B9A	TP	
35EH5	142 345 600		35		62	100	100	45	7.5	100	100			
35F4	412 365 400	A1	35	7.5	100	100	41	5.8	100	100	6	B7G	P	
35F6	041 230 665		35	23	250	200	55	5	100	100		B9A	P	
35FN5	521 441 350		35	22.5	200	150	100	10	No Data Available			B8A	P	
35GD5A	142 345 600		34	7.5	100	100	45	7.5	100	100		B7G	P	
35GL6	142 253 600		35	7.5	100	100	45	7.5	100	100		B7G	P	
35HB8	416 235 714	G1	35	}	100		2.5	3.9	100	60		} B9A	TP	
35L6	026 540 310		35		7.5	200	100	40	5.8	100	90			5.8
35L31	412 365 400		35	13	200	200	55	8	100	100	8	B7G	P	
35QL6	451 236 154		35	11.5	200	200	52	9.5	100	100	8.3	B8A	P	
35R1	002 382 100		35				60		REC		30mA	B7G	R	
35R2	002 380 100		35				60		REC		30mA	B7G	R	
35RE	281 193 000		35				60		REC		20mA	UX6	RR	
35S	265 120 000		2.5	3	250	90	6.5	10.8	100	90	1.8	UX5	P	
35W4	002 383 100		27.5				60		REC		70mA	B7G	R	
35X4	002 380 100		35				60		REC		20mA	B7G	R	
35Y4	280 200 130	27.5				60		REC		20mA	B8B	R		
35Y5	280 200 130	27.5				60		REC		20mA	B8B	R		
35Y31	002 380 100	35				120		REC		20mA	B7G	R		
35Z3	280 000 130	35				120		REC		60mA	B8B	R		
35Z3LT	280 000 130	35				120		REC		60mA	B8B	R		
35Z4	020 080 310	35				120		REC		60mA	AO8	R		
35Z4GT	020 080 310	35				120		REC		60mA	AO8	R		
35Z5	022 080 310	27.5				60		REC		60mA	AO8	R		
35Z6	028 190 310	35				60		REC		20mA	AO8	RR		
36	265 130 000	6	3	250	90	3.2	1	100	90	1	UX5	P		
36AM3	002 283 100	G1	36				60		REC		15mA	B7G	R	
37	264 130 000		6	18	250		7.5	1.1	100		1.1	UX5	T	
38	265 130 00		6	18	200	200	14	1	100	100	1	UX5	P	
38A3	***1 23* **8		38				60		REC		20mA	B9A	R	
38R3	001 230 008		38				180		REC		40mA	B9A	R	
39	260 501 300	G1	6.3	3	250	90	5.8	1	100	90		B7G	P	
39	265 130 000	G1	6	3	200	90	5.8	1	100	90	1	UX5	P	
40	364 200 000		5	1.5	200		0.2	0.2	150		0.2	UX4	T	
40PPA	045 231 600		40	25	150	150	36	2	100	100	4	B7	P	
40SUA	802 310 000		40				60		REC		60mA	B5	R	
40Z5	022 080 310		35				120		REC		30mA	AO8	R	
41	265 413 000		6	18	250	250	32	2.3	100	100	2.3	UX6	P	
41E	265 413 000		6	18	250	250	32	2.3	100	100	2.3	UX6	P	
41FP	642 310 000		6	18	250		19	2.8	100		2.8	B5	T	
41M	026 540 310		6	18	250	250	32	2.3	100	150	2.3	AO8	P	
41MDG	652 310 000	G1	4	0	150	100		0.2	150	100	0.2	B5	P	
41MH	642 310 000		4	1.5	200			3.2	3	100	4	B5	T	
41MHF	642 310 000		4	2	150			2.5	2.8	125		2.8	B5	T
41MHL	642 310 000		4	3	200			4	4.1	100		4.5	B5	T
41MLF	642 310 000		4	4.5	200			7.5	1.9	125		1.9	B5	T
41MP	642 310 000		4	7.5	200		24	6.0	100		7.5	B5	T	

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
41MPG	454 231 600	G1	4	1.5	250	100	3.3	0.9	100	100		B7	H
41MPT	041 231 500	A1	4	1.5	250	100	12	4.8	100	100	4.8	B7	P
41MRC	642 310 000		4	1	200		2.5	2.6	150		2.6	B5	T
41MSG	465 230 574		4	1.5	150	60	0.8	2.5	100	60	2.5	B9	PP
41MSG	542 310 000	A1	4	1.5	150	60	0.8	2.5	100	60	2.5	B5	P
41MTA	642 310 000		4	1	100		4.9	4	100		4	B9	T
41MTB	642 310 000		4	1	100		3.6	2.6	100		2.6	B5	T
41MTL	642 310 000		4	2.5	200		5.9	3	100		3	B5	T
41MTS	645 231 700		4	1	250	100	5	1.6	100	100	1.6	B7	PP
41MXP	642 310 000		4	12.5	200		40	6	100		7.5	B5	T
41MVSG	542 310 000	A1	4	1.4	200	200	3	2	100	100	2	B5	P
41STH	645 231 700	G1	4	{ 1.5	100		2		100	60	1.6	} B7	TH
				1.5	200	60	1		100	60	2.5		
42	264 300 000		1.5	13.5	150		3.9	0.8	100			UX4	T
42	265 413 000		6	16.5	250	250	34	2.5	100	150	2.5	UX6	P
42E	265 413 000		6	16.5	250	250	34	2.5	100	150	2.5	UX6	P
42MP/PEN	045 231 600		4	5.5	250	250	32	6	100	150	7	B7	P
42MPT	041 231 500	A1	4 (5)	3	200	200	34	8.5	100	150	8	B7	P
42/OT	045 231 600		4	5.5	250	275	34	7	100	150	7	B7	P
42OTDD	968 231 500	G1	4	5.5	250	250	34	7	100	150	7	B7	DDP
42PTB	061 231 500	G1	4	3	200	200	34	8.5	100	150	8	B7	P
42SPT	041 231 500	A1	4	10.5	250	250	64	11	100	150	10	B7	P
43	265 413 000		25	18	150	125	33	2.3	100	100	2.3	UX6	P
43	264 473 000		1.5	{ 4.5	135		3	0.9	100		1	} UX6	TT
				20	135		14		100		4		
43E	265 413 000		25	18	150	125	33	2.3	100	100	2.3	UX6	P
43IU	892 300 000		4				60		REC		20mA	B4	RR
43MG	026 540 310		25	18	250	125	33	2.3	100	100	2.3	AO8	P
44	265 130 000	G1	6	3	200	90	5.8	1	100	90	1	UX5	P
44A/160M	241 657 143		6	14	250	250	30	3.9	100	100	3	B9G	PP
44GW8	415 237 146		44	{ 1.7	250		1.2	1.6	100	60	1.4	} B9A	TP
				7	250	250	36	10	100	100			
44IU	892 300 000		4				60		REC		50mA	B4	RR
44SU	802 300 000		4				30		REC		15mA	B4	R
45	264 300 000		2.5	50	250		34	2.1	100		2.1	UX4	T
45A	264 300 000		2.5	68	325		43	2.3	100		2.3	UX4	T
45A5	26* *54 130		45	9	200	200	54	9.5	100	100	7	B8A	P
45B5	041 23* 6*5		45	12.5	200	200	70	10	100	100		B9A	P
45BQ5	041 23* 6*5		45	12.5	300	175	70	10	100	100		B9A	P
45DQ8	461 237 145		45	{ 1.7	200		3	4	100	60	4	} B9A	TP
				12.5	200	175	70	10	100	100			
45DX8	461 237 145		45	{ 1.7	200		3	4	100	60		} B9A	TP
				2.1	200	175	18		100	100			
45IU	892 300 000		4				120		REC		30mA	B4	RR
45LIU	206 540 130		45	13	200	200	45	7.5	100	100	7	AO8	P
45Z3	28* 108 300		45				60		REC		70mA	B7G	R
45Z5	022 080 310		37.5				60		REC		20mA	AO8	R
46	264 630 000		2.5	33	250		22	2.3	100		2.3	UX5	T
47	264 530 000		2.5	16.5	250	250	31	2.5	100	150	3.8	UX5	P
48	265 413 000		30	10	100	100	52	3.8	100	90	3.8	UX6	P
48A8	414 237 516		48	{ 11.5	100		3.5	2.5	100	60	2.5	} B9A	TP
				150	150	41	7.5	100	100				
49	264 630 000		2	20	150		6	1.1	100		1.1	UX5	T

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
49	265 413 000		6.3	50	400	250	95		No Data Available			UX6	P
50	264 300 000		7.5	70	400		55	2.1	100		2.1	UX4	T
50A5	265 004 130		50	7.5	150	100	49	8	100	90	7	B8B	P
50AX6	028 190 310		50				120		REC		30mA	AO8	RR
50B5	412 335 400		50	7.5	150	100	49	7.5	100	90	6	B7G	P
50BC1D	206 089 030	G1	1.4	0.5	90		1.4	0.8	80			AO8	DDT
50BK5	604 231 450		50	5	250	250	35	8.5	100	150		B9A	P
50BM8	414 237 516		50	10	100		3.5	2.5	100	60		B9A	TP
50C5	142 345 600		50		7.5	150	150	41	7.5	100	100		
50C6	026 540 310		50	13.5	150	150	49	7.5	100	90	6	B7G	P
50CID	206 089 030	G1	1.4	1.5	100		1.5	0.9	100	100	0.9	AO8	DDT
50CA5	142 345 600		50	4.5	150	125	37	9.2	No Data Available			B7G	P
50CD6	021 040 350	A1	50	30	200	200	75	7.5	100	100	7	AO8	P
50DC4	002 363 100		25				60		REC		20mA	B7G	R
50EH5	142 345 600		50	3.2	100	125	42	14.6	No Data Available			B7G	P
50F2	412 365 400		50	7.5	100	100	50	7.5	100	100		B7G	P
50F2D	206 501 030	G1	1.4	1.5	100	125	1.4	1	100	100	1	AO8	P
50FA5	142 345 600		50	7.5	100	100	40	5.8	100	100		B7G	P
50FE5	026 540 310		50	16	150	150	80	9.5	100	100		AO8	P
50FK5	142 345 600		50		100	100	32	12.8	No Data Available			B7G	P
50FY8	414 237 516		50	1.5	150		2.5	2	100	60		B9A	TP
50LID	206 540 030		1.4		13.5	150	125	50	7.5	100	100		
50L6	026 540 310		50	8.2	200	125	46	9.5	100	75	8	AO8	P
50R4	080 230 901		50				60		REC		40mA	B9A	RR
50RP1	141 236 518		50	1	200	100	9	4.5	100	100	4	B9A	RP
50X6	219 008 130		50		60			REC			20mA		
50YIU	388 208 120		45				120		REC		30mA	AO8	R
50Y6	029 180 310		50				60		REC		20mA	AO8	RR
50Y7	028 193 310		46				60		REC		20mA	AO8	RR
50Z6	029 180 310		50				120		REC		30mA	AO8	RR
50Z7	029 183 310		48				60		REC		20mA	AO8	RR
51	265 130 000	G1	2.5	3	250	90	6.5	10.5	175	90	10	UX5	P
52	264 530 000		6	1	250	100	41	2	125	100	2	UX5	P
52KU	030 908 020		5				60		REC		30mA	AO8	RR
53	274 146 300		2.5	5	250		3	1.6	100		3.1	UX7	TT
53KU	030 908 020		5				120		REC		40mA	AO8	RR
54KU	030 908 020		5				120		REC		60mA	AO8	RR
55	269 813 000	G1	2.5	20	250		8	1.1	100		1.1	UX6	DDT
55A/165M	245 761 430		12	15	150	150	60	4	100	100		B8G	PP
55N3	**1 23* **8		55				120		REC		30mA	B9A	T
56	264 130 000		2.5	12.5	250		5	1.4	100		1.4	UX5	T
56AS	264 130 000		6	13.5	250		5	1.4	100		1.4	UX5	T
57	265 113 000	G1	2.5	3	250	100	2	1.2	100	100	1.2	UX6	P
57AS	265 113 000	G1	6	3	250	100	2	0.2	100	100	1.2	UX6	P
58	265 113 000	G1	2.5	3	250	100	8	1.5	100	100	1.5	UX6	P
58AS	265 113 000	G1	6	3	250	100	8	1.5	100	100	1.5	UX6	P
58TF1	417 23† 564	G1	58	2	200		4	1.5	100	60	1.5	B9A	TPP
					31	250	250	38	2.5	100	100		
59	265 411 300		2.5	18	250	250	35	2.5	100	150	2.5	UX7	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
59B	265 410 300		2.5	26	250	250	26	6	100	150	6	UX7	P
60	200 300 000	D1/D2	5				120		REC		30mA	UX4	RR
60/250	892 300 000		4				30		REC		15mA	B4	RR
60E3	002 380 100		60				60		REC		20mA	B7G	R
60FX5	142 345 600		60	62	100	100	36	13.5	No Data Available			B7G	P
61BT	020 540 310	A1	6	20	200	200	40	4	100	100	4	AO8	P
61SPT	520 604 310		6	10.5	250	250	64	11	100	150	10	AO8	P
62DDT	264 098 130		6	3	250		1	1.3	150		1.3	B8A	DDT
62TH	276 454 130		6	{ 2 2	100 150		5 8	2.2 2	100 100		2.6 3.5	B8A	TH
62VP	261 154 130		6	2.5	250	100	6	2.2	100	100	2	B8A	P
63SPT	256 101 403		6	2	250	250	10	6.5	100	150	6	B9G	P
63T1	641 237 154		6	{ 2.3 8	100 200		4 17.5	1.4 3.3	100 100	150	1.4 3	B9A	TP
64	260 101 300	G1	6.3	3	200	90	3.1	1	100	100		B7G	P
64	265 130 000	G1	6	3	200	90	3.1	1.05	100	90	1.05	UX5	P
64A	260 101 300	G1	6.3	3	200	90	3.1	1	100	100		B7G	P
65	265 130 000	G1	6	3	200	90	4.5	1	100	90	1	UX5	P
66KU	280 009 130		6				30		REC		15mA	B8A	RR
67	264 130 000		6	9	150		5	1.1	100		1.1	UX5	T
67PT	261 054 130		6	7	250	250	36	10	100	150	9	B8A	P
68	265 130 000	G1	6	13.5	150	90	14	1.4	100	75	1.4	UX5	P
68A	265 130 000	G1	6	13.5	150	125	14	1.4	100	100		UX5	P
69	264 413 000		6	3	200		4.5	1.4	150		1.5	UX6	T
70	264 413 000		6	6	200		2.3	0.3	150		0.5	UX6	T
70A7	126 548 310		70	{ 7.5	150	100	60 40	5.8	REC 100		15mA 5.8	AO8	RP
70L7	126 541 380		70	{ 7.5	125	100	60 40	7.5	REC 100	90	20mA 6.5	AO8	RP
71	264 300 000		5	40	200		20	1.7	100		1.7	UX4	T
71A	264 300 000		5	16.5	90		10	1.4	80		1.4	UX4	T
71B	264 300 000		5	40	200		20	1.7	100		1.7	UX4	T
75	020 000 300	A1/G1	6	60	400		82		No Data Available			AO8	T
75	269 813 000	G1	6	2	250		0.9	1.1	150		1.1	UX6	DDT
76	264 130 000		6	13.5	250		5	1.4	100		1.4	UX5	T
77	265 113 000	G1	6	3	250	100	2.3	1.25	100	100	1.2	UX6	P
77E	265 113 000	G1	6	3	250	100	2.3	1.25	100	100	1.2	UX6	P
78	265 113 000	G1	6	3	250	125	10.5	1.65	100	100	1.6	UX6	P
78E	265 113 000	G1	6	3	200	75	4	1.1	100	75	1.1	UX6	P
79	264 173 000	G1	6.3		250		10.6		100			UX6	TT
80	298 300 000		5				60		REC		20mA	UX4	RR
80A	298 300 000		5				60		REC		20mA	UX4	RR
80HK	380 200 000		5				60		REC		15mA	UX4	R
80M	289 300 000		5				60		REC		20mA	UX4	RR
80S	289 300 000		5				60		REC		20mA	UX4	RR
81	280 300 000		7.5				60		REC		20mA	UX4	R
81M	280 300 000		7.5				60		REC		20mA	UX4	R
82	289 300 000		2.5				60		REC		20mA	UX4	RR
82V	289 300 000		2.5				60		REC		20mA	UX4	RR
83	289 300 000		5				120		REC		20mA	UX4	RR
83V	289 300 000		5				60		REC		60mA	UX4	RR
84	289 130 000		6				30		REC		30mA	UX5	RR

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
85	269 813 000	G1	6	20	250		8	1.1	100		1.1	UX6	DDT
85AS	268 913 000	G1	6	20	250		8	1.1	100		1.1	UX6	DDT
85S	268 913 000	G1	6	10.5	250		3.7	0.7	125		1.1	UX6	DDT
88	289 300 000		5				60		REC		20mA	UX4	RR
89	265 113 000	G1	6	10	100	100	9.5	1.2	100	90	1.2	UX6	P
90	264 413 000		2.5		150		3.5	1.4	150		1.4	UX6	T
90AC	642 310 000		4	12.5	200		40	7.5	100		7	B5	T
92	264 413 000		6		250		3.5	1.4	100		1.4	UX6	T
95	265 413 000		2.5	20	350	300	42	2.3	100	150	2.3	UX6	P
96	281 300 000		10				120		REC		30mA	UX4	R
98	289 130 000		6				30		REC		15mA	UX5	RR
99V	426 300 000		3.3	4.4	90		2.5	0.4	100		0.4	UX4	T
99X	264 300 000		3.3	4.5	90		2.5	0.4	100		0.4	UX4	T
100AC	642 310 000		4	6	200		5	2	100		2	B5	T
104V	642 310 000		4	1	100		15	3.5	100		3.5	B5	T
100/200LLID	346 547 220		1.4	9.4	150	125	4		100	100		AO8	P
112A	364 200 000		5	4.5	90		5	1.5	80		1.5	UX4	T
114	020 000 300	A1/G1	1.4		200		15		100			AO8	T
114B	020 000 300	A1/G1	1.4	4	200		12	1.1	100		1.1	AO8	T
116/Pen	005 231 600	G1	11.5	1	100	100	100	7	100	100	6	B7	P
117DDP	541 236 891		17	2	250	150	5	2.2	100	100	2	B9A	DDP
117L7	126 458 310		117	{ 5.2	100	100	60 43	5.3	REC 100		20mA 5.3	AO8	RP
117M7	126 458 310		117	{ 5.2	100	100	60 43	5.3	REC 100	90	20mA 5.3	AO8	RP
117Z3	*02 381 000		117				60		REC		20mA	B7G	R
117Z4	020 080 310		117				60		REC		20mA	AO8	R
117Z6	029 180 310		117				60		REC		20mA	AO8	RR
120	642 310 000		2	12	150		12		100			B5	T
120VPA	041 230 500	A1	2	1	150	60	2.9	1.1	150	60	1.1	B7	P
121VP	26* *54 130		12.5	3	200	115	7.2	2.3	100	150	2.3	B8A	P
124AC	542 310 000	A1	4	1.4	200	60	1.6	0.9	100	60	0.9	B5	P
141DDT	264 089 130		14	1.5	200		1.5	1.6	100		1.5	B8A	DDT
141TH	276 454 130		14	{ 2 2	100 250	100	5 8	2 2.2	100 100	60 75	2.8 1.5	B8A	TH
142BT	026 540 130		14	8.5	200	200	29	3.7	100	100	3.7	AO8	P
144V	642 310 000		4	8	200		6	1.4	100		1.4	B5	T
154V	642 310 000		4	6	200		9	2	100		2	B5	T
163Pen	041 25* 6*5		16	10.4	200	175	53	9.5	No Data Available			B9A	P
164V	642 310 000		4	9	200		12	3.4	100		3.4	B5	T
171DDP	541 236 891		17	2	200	125	5	2.2	100	100	2	B9A	DDP
181	264 300 000		3	30	200		16	1	100		1	UX4	T
182	264 300 000		5	45	200		18	1.5	100		1.5	UX4	T
182A	264 300 000		5	45	200		18	1.5	100		1.5	UX4	T
182B	264 300 000		5	35	250		18	1.5	100		1.5	UX4	T
183	264 300 000		5	60	250		30	1.7	100		1.7	UX4	T
185BT	020 540 310	A1	18	18	200	200	100	9.5	100	100	8	AO8	P
185BTA	020 540 310	A1	18	18	200	200	100	9.5	100	100	8	AO8	P
200A	264 300 000		5		60		1.5	0.7	No Data Available			UX4	T
202DDT	809 231 600	G1	20	3	200		3	2.4	150		2.4	B7	DDT
202MPG	545 213 600	G1	20	1.5	200	100	3	1.3	100	100		B7	H
202SPB	061 231 500	G1	20	1.5	250	100	4.8	2.8	100	100	2.8	B7	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
202STH	645 231 700	G1	20	{ 1.5	100		2		100	60		} B7	TH	
202VP	041 231 500	A1	20		200	60	1		100	60			B7	P
202VPB	061 231 500	G1	20	1.5	250	100	4.3	2.2	100	100	2.2	B7	P	
203THA	545 231 600	G1	20	2	250	100	3.5	0.85	100	100		B7	H	
205D	264 300 000		3.5	29	400		30	0.95	100		1.8	UX4	T	
205E	264 300 000		4.5	22.5	350		29	1.9	100			UX4	T	
205F	264 300 000		4.5	18	300		31	1.7	100			UX4	T	
210DDT	682 390 000	G1	2	1	100		2.3	1.1	100		1.1	B5	DDT	
210DET	642 300 000		2	4.5	150		3	1.1	100		1.1	B4	T	
210DPT	041 230 500	A1	2	1	150	60	2.9	1.3	150	60	1.3	B7	P	
210HF	642 300 000		2	3	150		1.6	1.5	100		1.5	B4	T	
210HL	642 300 000		2	3	150		1.6	1.1	100		1.1	B4	T	
210HPT	642 350 000		2	4.5	150	175	7.5	2.5	100	100	2.5	B5	P	
210LF	642 300 000		2	4.5	150		4.8	1.4	100		1.4	B4	T	
210PG	645 230 700	G1	2	{ 0	150		1.1		150	60	0.4	} B7	H	
210PGA	645 230 700	G1	2		150	40	0.4		150	75	1.5			B7
210RC	642 300 000		2		150	40	0.4	0.8	150	75	1.5			B7
210SPG	645 230 700	G1	2	{ 1.5	150		1.1		150		0.5	} B4	T	
			2		150	40	0.5		150	75	1.5			B7
210SPT	041 230 500	A1	2	1	150	60	1.9	1.1	100	60	1.2	B7	P	
210T	264 300 000		7.5	32	350		16	1.5	100		1.5	UX4	T	
210VPA	041 230 500	A1	2	1	150	60	2.9	1.1	150	60	1.1	B7	P	
210VPT	041 231 500	A1	2	1	150	60	1.9	1.1	150	60	1.1	B7	P	
213	289 300 000		5				30		REC		15mA	UX4	RR	
213Pen	*41 23* *51	A1	21	22	200	200	45	6.2	100	100	6	B9A	P	
215P	642 300 000		2	7.5	150		10	2.2	100		2.2	B4	T	
215SG	542 300 000	A1	2	1	150	60	1.4	1.1	150	60	1.1	B4	P	
217A	228 300 000		10				120		REC		30mA	UX4	R	
220	200 300 000	D1	2.5				15		REC		15mA	UX4	R	
220B	446 230 700		2	3	150		5.0	1.5	100		1.5	B7	TT	
220DD	892 310 000		2						D			B5	DD	
220HPT	642 350 000		2	4.5	150	150	8	2.5	100	100	2.5	B5	P	
220IPT	040 230 500	A1	2	1.5	150	60	2.2	1	100	60	1	B7	P	
220OT	642 350 000		2	4.5	150	150	9.5	2.5	100	100	2.5	B5	P	
220P	642 300 000		2	7.5	150		11	2.2	100		2.2	B4	T	
220PA	642 300 000		2	4.5	150		10	4	100		4	B4	T	
220PT	642 350 000		2	9	150	150	19	2.5	100	100	2.5	B5	P	
220SG	542 300 000	A1	2	1	150	60	1.5	1.6	100	60	1.6	B4	P	
220TH	645 230 700	G1	2	{ 3	100		1.7	1.2	100	60	1.2	} B7	TH	
			2		150	60	0.6	0.6	125	60	0.6			B7
220VS	542 300 000	A1	2	1	100	60	2	1.6	100	60	1.6	B4	P	
220VSG	542 300 000	A1	2	1.5	150	60	2.6	1.5	100	60	1.6	B4	P	
225DU	082 323 900		2				15		REC		10mA	B7	RR	
230	642 300 000		2	20	150		18	3	100		3	B4	T	
230	200 300 000	D1	5				30		REC		14mA	UX4	R	
230PT	642 350 000		2	15	150	150	14	2	100	100	2	B5	P	
230XP	642 300 000		2	18	150		22	3	100		2	B4	T	
231D	264 300 000		3	3	90		2.1	8.4	100		0.5	UX4	T	
240B	446 230 700		2	1	150		8.5		100			B7	TT	

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
240QP	446 253 700		2	12	150	150	6	2.5	100	100	2.5	B7	PP
244	264 130 000		2	6	150		5.5	1	100		1	UX5	T
244V	642 310 000		4	5.5	200		5.5	2.8	100		2.8	B5	T
245A	265 130 000	G1	2	1.5	150	50	4.8	0.6	100	60		UX5	P
246A	365 200 000	G1	3.3	1.5	150	40	1.5	0.4	No Data Available			UX4	P
247A	206 040 030		2	4.5	150		3.2	0.9	100		0.9	AO8	T
248A	026 510 310	G1	6.3		150	125	5.5	1.8	100	100		AO8	P
249B	223 300 000	D1	2.5				120		REC		30mA	UX4	R
252A	264 300 000		5	50	400		60	3.4	100		3.4	UX4	T
255	268 943 000		2	3	150		0.8	0.6	100		0.5	UX6	DDT
257	264 530 000		5	21.5	100	100	20	1.3	100	90	1.3	UX5	P
257A	260 300 000	G1	3.1	3	90		2.1	0.5	80		0.5	UX4	T
259A	265 130 000	G1	2	1.5	200	75	5.5	1.4	100	75	1.4	UX5	P
259B	265 130 000	G1	2	1.2	200	75	5.5	1.4	100	75	1.4	UX5	P
262B	261 300 000	G1	10	4.5	150		2.8	0.9	100		0.9	UX4	T
264	264 300 000		1.1	9	150		2.5	0.6	100		0.6	UX4	T
264C	264 300 000		1.5	8	100		2.1	0.6	100		0.6	UX4	T
264E	264 300 000		1.4	8	100		2.1	0.6	100		0.6	UX4	T
271A	264 130 000		5	30	400		37.5	2.9	100			UX5	T
272A	264 130 000		10	15	150		5.4	0.7	100		0.7	UX5	T
274A	289 300 000		5				60		REC		20mA	UX4	RR
274B	289 300 000		5				60		REC		20mA	UX4	RR
275A	264 300 000		5	4.5	200		47	2.7	100		2.7	UX4	T
281A	264 530 000		5	60	150	75	35	1.5	No Data Available			UX5	P
283A	265 130 000	G1	2	1.5	200	75	5.9	1.3	100	75	1.3	UX5	P
285	265 130 000	G1	2	12	200	150	8.8	0.9	100	100	0.9	UX5	P
286A	265 113 000	G1	2	1.5	200	75	6.2	1.2	100	75	1.2	UX6	P
290A	265 113 000	G1	10	1.5	200	75	5.4	1.2	150		1.2	UX6	P
291A	275 641 300	G1	10	{ 3	200		4.5		100	60		} B7	H
292A	268 913 000	G1	10	{ 7.5	200	75	3.1		100	75			
292A	268 913 000	G1	10	6	150		2.1	0.6	100		0.6	UX6	DDT
293A	265 413 000		10	18	200	200	14.5	1	100	100	1	UX6	P
300A	364 200 000		5	97	400		80	1.3	No Data Available			UX4	T
300B	364 200 000		5	97	500		80	1.3	No Data Available			UX4	T
302	645 231 700	G1	30	{ 2	100		1.5		100	60		} B7	TH
				{ 2	250	100	3.5	0.9	250	100			
				{ 2	100		1.5		100	60			
302THA	645 231 700	G1	30	{ 2	250	100	3.5	0.9	250	100		} B7	TH
303A	268 943 000		2	6	150		2	0.6	100		0.6	UX6	DDT
304AC	542 310 000	A1	4	2	200	100	3	1.9	100	100	1.9	B5	P
309A	265 413 000		10	1.5	200	75	4.8	1.1	100	60	1.1	UX6	P
310A	265 113 000	G1	10	3	150	150	5.5	1.8	100	100	1.8	UX6	P
310B	265 113 000	G1	10	3	150	150	5.5	1.8	100	100	1.8	UX6	P
311A	265 130 000	G1	10	15	150	150	30	2.8	100	100	2.8	UX5	P
311SU	28* *** 130		31		225		100		REC		20mA	B8A	R
324A	200 300 000	D1	5				5		D			UX4	R
328A	265 113 000	G1	7.5	3	150	150	5.5	1.8	100	100	1.8	UX6	P
329A	265 130 000	G1	7.5	15	150	150	37.5	3.3	100	100	3	UX5	P
329L	265 130 000	G1	7.5	15	150	150	37	3.3	100	100	3	UX5	P
332Pen	026 540 310		33	8.5	200	200	45	8	100	100	7	AO8	P
336A	265 413 000		10	14	250	250	30	4.2	100	100		UX6	P
337A	265 113 000	G1	10	3	150	150	6.3	1.6	100	100	1.6	UX6	P
345A	289 130 000		6				60		REC		20mA	UX5	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
347A	020 600 310	G1	6	4.6	150		2.8	0.9	100		0.9	AO8	T
349A	026 540 310		6	14	250	250	30	4.2	100	150	4.2	AO8	P
350B	026 540 310	G1	6	20	400	250	85	6.2	No Data Available			AO8	P
351A	028 090 310		6.3				120				20mA	AO8	RR
352A	268 913 000		10	6	100		2.1	0.6	100		0.6	UX6	DDT
354V	642 310 000		4	4.5	250		6.5	3.6	100		3	B5	T
361A	243 560 000		1.4		50	40	0.4	0.6	No Data Available			UX5	P
362A	243 560 000		1.4		50	50	1.3	0.5	No Data Available			UX5	P
367A	060 524 310	G1	6	20	400	250	85	6.2	No Data Available			AO8	P
373A	021 455 360		2		150	150	2	1.3	100		1.3	AO8	P
374A	021 405 360		3		150	125	18	3	125		3	AO8	P
375A	026 540 310		20		40	40	12	4.7	No Data Available			AO8	P
381A	120 080 300		6.3				5		D			AO8	D
383A	120 406 030		6		150		7.5	2.8	100		2.8	AO8	T
385A	125 040 130	G1	6		150		7.5	2.5	100		2.5	AO8	P
387A	125 040 130		6		150		5.6	4	100		3.8	AO8	P
396A	214 607 413		6.3	2.2	150		8.2	5.5	100		6	B9A	TT
401A	265 300 000		5	9	50		1.5	0.8	No Data Available			UX4	T
402	264 300 000		3	40	200		40	1	100		1	UX4	T
402-OT	005 231 600		G1	40	12	250	250	32	7	100	150	7	B7
402P	000 231 600	G1	4	15	200		27	5.5	100		7.5	B7	T
402Pen	005 231 600	G1	40	6.7	200	200	40	7	100	100	7	B7	P
402PenA	005 231 600	G1	40	9	150	150	56	8	100	100	8	B7	P
403A	413 265 100		6	2.3	150	150	7	4.4	100	100	4	B7G	P
403B	412 365 100		6.3		200	125	7.7	5.1	100	100		B7G	P
404A	402 106 053		6.3		150	150	13.5	12.5	100	100		B9A	P
405BU	892 300 000		4				15		REC		10mA	B4	RR
406	642 300 000		G1	4		150		5.5	0.5	100		0.5	B4
407A	214 637 412	20		2	150		8.2	5.5	100		5.5	B9A	TT
408A	412 365 100	20		2	150	125	7.5	5	100	125	5	B7G	P
408BU	892 300 000	4					15		REC		10mA	B4	RR
409A	410 065 100	6.3			150	125	5.2	3.2	100	100		B7G	P
410HF	642 300 000	A1		4	2.5	200		0.2	0.2	100		0.2	B4
410P	642 300 000		4	16	250		12	1.8	100		2.8	B4	T
410PT	462 350 000		4	1	100	150		2.5	100	150	2.5	B5	P
410RC	642 300 000		4	2.5	200		0.2	0.2	100		0.2	B4	T
410SG	542 300 000		4	1	200	100	4.5	0.9	100	100	0.9	B4	P
412BU	892 300 000		4				30		REC		17mA	B4	RR
412SU	802 300 000	4				60		REC		22mA	B4	R	
415PT	642 350 000	G1	4	25	300	200	20	1.7	100	150	1.7	B5	P
415QT	642 350 000		4	25	300	200	20	1.8	100	150	1.8	B5	P
415SP	642 300 000		4	18	150		11	1.6	100		1.6	B4	T
417A	602 441 443		6.3	1.5	150		25	25	No Data Available			B9A	T
420T	045 231 600		4	4.4	250	250	40	10.5	100	150	9	B7	P
425PT	642 350 000	G1	4	17	250	150	12	1.3	100	100	1.3	B5	P
431U	892 300 000		4				60		REC		15mA	B4	RR
435A	402 106 053		6	10	200	150	13	16.3	No Data Available			B9A	P
436A	211 403 506		6.3	1.4	200	150	23	32	No Data Available			B9A	P
437A	304 002 116		6	10	150		40		No Data Available			B9A	T
441U	892 300 000	A1/G1	4				60		REC		20mA	B4	RR
442BU	892 300 000		4				60		REC		20mA	B4	RR
446A/B	021 000 310		6	3	250		15	4.5	100			AO8	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
450	642 300 000		4	55	250		50	3.5	100		3.5	B4	T
450	264 300 000		7.5		400		55	2.1	100		2.0	UX4	T
450AC	542 310 000	A1	4		200	100	3.5	3	100	100	3	B5	P
451	892 300 000		1.8			16		650	REC			B4	RR
451PT	26* *54 130		45	9	200	200	54.5	9.5	100	100	7	B8A	P
451U	823 900 000		4				120		REC		30mA	B4	RR
460BU	892 300 000		4				60		REC		20mA	B4	RR
482A	264 300 000		5	45	200		18	1.5	100		1.5	UX4	T
482B	264 300 000		5	35	250		18	1.5	100		1.5	UX4	T
483	264 300 000		5	60	250		30	1.7	100		1.7	UX4	T
484V	642 310 000		4	2.5	200		0.2	1.2	100		1.2	B5	T
485	264 130 000		3	9	200		5.8	1.4	100		1.4	UX5	T
486	026 040 300		3	3	90		3	0.6	80		0.6	AO8	T
500	892 300 000		4				30		REC		15mA	B4	RR
501	653 420 000		1.4	0	40	40	1	0.8	No Data Available			B5A	P
501AX	653 420 000		1.4	0	40	40	1	0.8	No Data Available			B5A	P
502AX	653 420 000		1.2	1.2	40	40	8.6	0.5	No Data Available			B5A	P
503AX	653 420 000		1.2	2	40	40	0.8	0.5	No Data Available			B5A	P
505AX	653 420 000		0.6	0	40	30	0.1	0.1	No Data Available			B5A	P
506	892 300 000		4				30		REC		15mA	B4	RR
506AX	653 420 000		1.2	4.5	40	40	1.2	0.5	No Data Available			B5A	P
506BU	892 300 000		4				30		REC		15mA	B4	RR
506K	892 300 000		2	2			30		REC		15mA	B4	RR
506KB	892 300 000		4				30		REC		15mA	B4	RR
507AX	265 436 200		1-25		40	40	0.9	0.5	No Data Available			B7G	P
509	892 300 000		2				60		REC		20mA	B4	RR
509AX	634 200 000		0.6	2	40		0.1	0.1	No Data Available			B5A	T
511D	892 300 000		4				60		REC		20mA	B4	RR
512AX	653 420 000		0.6	0.6	20	20	0.1	0.1	No Data Available			B5A	P
515BX	634 200 000		0.6		40		0.1	0.1	No Data Available			B5A	T
516AX	603 420 000		0.6	0.6	22.5		0.1	0.2	No Data Available			B5A	T
518AX	653 420 000		1.2	2	40	40	0.8	0.5	No Data Available			B5A	P
520AX	653 420 000		0.6	2.5	40	40	0.2	0.1	No Data Available			B5A	P
521AX	653 420 000		1.2	3	20	20	0.8	0.4	No Data Available			B5A	P
522AX	653 420 000		1.2	0	20	20	0.3	0.4	No Data Available			B5A	P
523AX	653 420 000		1.2	1.2	20	20	0.3	0.3	No Data Available			B5A	P
524AX	653 420 000		1.2	1.7	12	12	0.4	0.3	No Data Available			B5A	P
525AX	653 420 000		1.2	1.2	20	20	0.2	0.3	No Data Available			B5A	P
526AX	653 420 000		1.2	1.5	20	20	0.4	0.4	No Data Available			B5A	P
527AX	653 420 000		1.2	0	20	20	0.1	0.2	No Data Available			B5A	P
528AX	653 420 000		1.2	0	20	20	0.3	0.4	No Data Available			B5A	P
529AX	653 420 000		1.2	1.2	12	12	0.3	0.3	No Data Available			B5A	P
531DX	653 420 000		1.2	1.5	12	12	0.3	0.3	No Data Available			B5A	P
532DX	653 420 000		1.2	0	20	20	0.4	0.4	No Data Available			B5A	P
533DX	653 420 000		1.2	0	20	20	0.3	0.4	No Data Available			B5A	P
535AX	653 420 000		1.2	1.2	15		0.3	0.3	No Data Available			B5A	P
536AX	653 420 000		1.2	0	20	20	0.3	0.4	No Data Available			B5A	P
537AX	653 420 000		1.2	1.5	20	20	0.4	0.4	No Data Available			B5A	P
538A	741 226 413		6	2	250		10	5.5	200		5	B9A	TT
539DX	653 420 000		1.2	1.4	20	20	0.2	0.3	No Data Available			B5A	P
541DX	653 420 000		1.2	0	30	30	0.2	0.4	No Data Available			B5A	P
542A	602 304 100		6	2	250		10	5.5	200		5.5	B7G	T
542DX	653 420 000		1.2	2	20	20	0.4	0.3	No Data Available			B5A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
542DXS	653 420 000		1.2	2	20	20	0.4	0.3	No Data Available			B5A	P
543A	402 013 060		6	2.5	200		9.5	3.8	100		3	B8D	T
543B	402 013 060		6	2.5	200		9.5	3.8	100		3	B8D	T
544A	602 364 100		6	8.5	250		10.5	2.2	100		3	B7G	T
544DX	653 420 000		1.2	0	30	30	0.1	0.3	No Data Available			B5A	P
546A	802 309 100		6				30		REC		15mA	B7G	RR
546DX	653 420 000		1.2	0	20	20	0.3	0.4	No Data Available			B5A	P
547DX	653 420 000		1.2	0	40	30	0.2	0.4	No Data Available			B5A	P
548A	762 344 100		6	0.8 3	100		8.5	5.3	100		5.3	B7G	TT
548DX	653 420 000		1.2		1.4	150	20	5	4.5	100	5.3		
549A	192 310 800		6						D			B7G	DD
550A	471 461 230		6	2	250		2.3	1.6	150		1.6	AO8	TT
553AXA	652 430 000		1.2	0	20	20	0.4	0.5	No Data Available			B5A	P
559	021 010 030	D1	6.3				27		D			AO8	R
568AX	603 420 000		1.2	5.5	135		1.9	0.6	No Data Available			B5A	T
569AX	652 430 000		1.2		60	60	1.8	1.1	No Data Available			B5A	P
573AX	624 300 000		1.2	4	90		11	2	80		2	B5A	T
574AX	653 420 000		0.6	0.6	20	20	0.1	0.1	No Data Available			B5A	P
578	811 239 146		4.7	3	250		1	1.2	100		1.3	B9A	DDDT
605	642 300 000		4	6	150		10	1.4	100		1.4	B4	T
608CX	623 410 000		6.3	2	150		9	5	100		5	B5A	T
612BU	892 300 000		6				30		REC		15mA	B4	RR
615	642 300 000		4	41	150		4	1.4	100		1.4	B4	T
619CX	623 410 000		6.3	2	250		4	4	100			B5A	T
620T	642 300 000		6	99	400		62	2.3	100		2.3	B4	T
635GTX	026 040 310		6	20	350		20		100			AO8	T
660	642 300 000		6	100	400		120	2.3	100		2.3	B4	T
660T	642 300 000		6	1	100			7.4	100		7.5	B4	T
680XP	642 300 000		6	100	400		3.5	1.1	100		1.1	B4	T
713A	021 415 360		6	2	150	125	7.5	4	100	100	4	AO8	P
717A	021 415 360		6	2	150	125	7.5	4	100	100	4	AO8	P
731A	412 365 100		6	2.3	150	150	7	4.3	100	100	4	B7G	P
801	364 200 000		7.5	15	400		60	2.5	100			UX4	T
802	205 411 300	A1	6	18	400	250	30	2.2	100	150	2	UX7	P
805	642 300 000		6	6	150		10	1.4	100		1.4	B4	T
807	254 130 000	A1	6	12.5	400	250	83	6.5	100	150	6	UX5	P
816	300 300 000	D1	2.5				120		REC		30mA	UX4	R
825	642 300 000		6		150		6	1.4	150		1.4	B4	T
825BU	892 300 000		7.5				60		REC		20mA	B4	RR
829B	245 134 200	A1/A2	6.3	55	300	250	25	1.9	No Data Available			B7A	PP
832	245 134 200	A1/A2	6.3	60	150	125	30	3.5	100	150	3.5	B7A	PP
836	2** 00* 300	D1	2.5				120		REC		30mA	B7G	R
837	205 411 300		12.6	40	400	150	45		No Data Available			UX7	P
840	254 130 000	A1	2	3	200	75	1	0.4	100	60	0.4	UX5	P
841	264 300 000		7.5	1	100			0.7	100		0.7	UX4	T
842	264 130 000		7.5	100	400		25	1.2	100		1.2	UX5	T
843	264 130 000		2.5	25	350		25	1.7	100		1.7	UX5	T
864	364 200 000		1.1	4.5	90		2.9	0.6	80		0.6	UX4	T
871	200 300 000	D1	2.5				120		REC		30mA	UX4	R
879	200 300 000	D1	2.5				5		D			UX4	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
884	026 040 310		6		300		55	4kΩ	No Data Available			AO8	THY
885	264 130 000		2.5		300		55	4kΩ	No Data Available			UX5	THY
904V	642 310 000		4	2	200		2	2	150		2	B5	T
950	041 230 500	A1	2	16.5	200	150	7	0.9	100	100	0.9	B7	P
951	265 300 000	G1	2	3	200	60	1.7	0.6	100	60		UX4	P
952F	288 310 000		6.3				2		D			5AA	D
954	213 154 000	A1	6.3	3	250	100	2	1.4	100	100		7AA	P
955	264 310 000		6.3	7	250		6.3	2.2	100			5AA	T
956	213 154 000	A1	6	3	250	100	6.7	1.8	100	100		7AA	P
957	322 460 000		1.2	5	150		2	0.6	100			5AA	T
958	364 220 000		1.2	7.5	135		3	1.2	No Data Available			5AA	T
958A	364 220 000		1.2	7.5	150		3	1.2	No Data Available			5AA	T
959	322 154 000	A1	1.2	3	150	60	1.7	0.6	100	60		7AA	P
985	289 130 000		5				30		REC		15mA	UX5	RR
986	289 300 000		5				60		REC		20mA	UX4	RR
994V	642 310 000		4	0.5	100			3.6	100		3.6	B5	T
1002	802 300 000		1.8				60		REC		25mA	B4	R
1005	008 092 030		6.3				30		REC		15mA	AO8	RR
1006	289 300 000		1.7				120		REC		30mA	UX4	RR
1007	008 090 230		1.0				60		REC		20mA	AO8	RR
1012	289 300 000		1.7				120		REC		30mA	UX4	RR
1028	202 322 200	D1	6				60		REC		23mA	B7G	R
1103	809 231 600	G1	13	2	250		1.5	1.5	100		1.2	B7	DDT
1130	892 300 000		1.8				1.3		D			B4	DD
1201	426 141 630		6	3	200		5.5	3	150		3	B8B	T
1201	892 300 000		2.5				30		D			B4	DD
1203	200 800 130		6				5		D			B8B	D
1203A	200 800 130		6				5		D			B8B	D
1204	526 141 310		6	2	250	100	1.7	1.2	100	100	1.2	B8B	P
1206	265 441 730		6	2.5	250	100	4.5	2.1	100	100	2.1	B8B	PP
1216	672 344 100		6	2.3	100		4.8	3.4	100		3.4	B7G	TT
1217	412 365 100		6	2	75	75	6.3	2	80	75	2	B7G	H
1221	165 113 000	G1	6	3	250	100	2	1.2	100	100	1.2	UX6	P
1222	265 403 100		6.3	18	350	250	54	5.2	100	150	5.2	AO8	P
1223	026 510 310	G1	6	3	250	100	2	1.2	100	100	1.2	AO8	P
1229	265 300 000	G1	2	3	150	75	1.7	0.6	100	75	0.6	UX4	P
1230	264 300 000		2	9	150		3		100			UX4	T
1231	265 104 130		6	30	300	200	13	6.3	100	100	6.3	B8B	P
1232	265 114 130		6	2	250	100	6	4.5	100	100	4.5	B8B	P
1236A	333 882 220		2						D			AO8	D
1238	245 671 430		28	3.5	40	30	12.5	3.4	No Data Available			B8B	PP
1247	000 230 000	D1	0.6				0.4		D			B8A	D
1273	265 104 130		6	3	250	100	2.2	1.5	100	100	1.5	B8B	P
1274	028 090 310		6				30		REC		15mA	AO8	RR
1275	289 300 000		5				120		REC		30mA	UX4	RR
1276	264 300 000		4.3	45	250		60	5.2	100			UX4	T
1280	265 104 130		12.5	3	250	100	2.2	1.5	100	100	1.5	B8B	P
1282	265 114 130		6	2	300	150	10	5.8	100	150	5.8	B8B	P
1284	265 104 130		12.5	3	250	100	9	2	100	100	2	B8B	P
1288	364 240 730		1.4		90		5.2	1.8	80		1.8	AO8	TT
1291	274 304 620		1.4		90		5.2	1.8	80		1.8	AO8	TT
1292	364 204 730		1.4		90		5.2	1.8	80		1.8	AO8	TT

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				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
1293	260 064 030		1.4	0	90		5.2	1.3	80		1.3	B8B	T
1294	200 800 130		1.4				1		D			AO8	D
1299	365 004 230		1.4	4.5	150	90	10.2	2.4	100	90	2.4	B8B	P
1560	289 300 000		5				60		REC		20mA	UX4	RR
1560	892 300 000		5				60		REC		20mA	B4	RR
1561	892 300 000		4				60		REC		20mA	B4	RR
1562	280 300 000		7.5				120		REC		30mA	UX4	R
1602	264 300 000		7.5	23.5	250		10	1.3	100		1.3	UX4	T
1603	265 113 000	G1	6	3	250	100	2	1.2	100	100	1.2	UX6	P
1608	264 300 000		2.5	90	400		95		No Data Available			UX4	T
1609	364 520 000		1.1	1.5	150	75	2.5	0.7	100	75	0.7	UX5	P
1610	264 530 000		2.5	16.5	250	250	31	2.5	100	150	3.8	UX5	P
1611	026 540 310		6	16.5	250	250	34	2.5	100	150	2.5	AO8	P
1612	026 540 310	G1	6	3	250	100	5.3	1.1	100	100	1.1	AO8	H
1613	026 540 310		6	16.5	250	250	34	2.5	100	150	2.5	AO8	P
1614	026 540 310		6	18	350	250	54	5.2	100	150	5.2	AO8	P
1616	200 300 000	D1	2.5				120		REC		30mA	UX4	R
1619	026 540 310		2.5	10	300	250	45	4.5	100	150	4.5	AO8	P
1620	026 510 310	G1	6	3	250	100	2	1.2	100	100	1.2	AO8	P
1621	026 540 310		6	16.5	250	250	34	3.5	100	150	2.5	AO8	P
1622	026 540 310		6	18	350	250	54	5.2	100	100	5.2	AO8	P
1624	205 401 300	A1	2.5	10	300	250	45	4.5	100	150		UX7	P
1625	205 401 300	A1	12	12.5	400	250	83	6.5	100	150	6	UX7	P
1626	026 040 310		12.5	32	250		20	2.1	100		2.1	AO8	T
1631	026 540 310		12.5	18	350	250	54	5.2	100	150	5.2	AO8	P
1632	026 540 310		12.5	8	200	100	50	9.5	100	90	9	AO8	P
1633	471 461 230		25	8	250		11.5	2.6	100		2.6	AO8	TT
1634	074 461 230		12.5	2	250		2	1.3	150		1.3	AO8	TT
1635	027 446 310		6	0	300		3.5	0.9	100		0.9	AO8	TT
1637	026 500 310	G1	6	18	250	250	32	3.8	100	150	3.8	AO8	P
1638	029 180 310		6						D			AO8	DD
1639	026 890 310	G1	6	5.5	250		5	2	100		2	AO8	DDT
1641	200 300 000	D1/D2	5				120		REC		39mA	UX4	RR
1641/RK60	200 300 000	D1/D2	5				50		REC		12mA	UX4	RR
1642	216 471 300	G1	6	16.5	250		8.3	1.4	100			UX7	TT
1644	414 752 360		12.5	9	200	200	13	2.1	100	100	2.1	AO8	PP
1649	021 415 360		6	2	300	150	10	9	100	100	8	AO8	P
1654	2** 00* 300	D1	1.4						D			B7G	D
1655	074 461 230		6	2	250		2	1.3	200		1.3	AO8	TT
1659	268 913 000	G1	2.5	2	250		0.9	1.1	150		1.1	UX6	DDT
1662	364 526 300		1.4	8.4	150	90	13.3	1.9	100	75	1.9	B7G	P
1664	026 985 310	G1	2.5	3	250	125	10	1.3	100	100	1.3	AO8	DDP
1701	892 300 000		1.8				120		REC		30mA	B4	RR
1801	892 300 000		4				15		REC		10mA	B4	RR
1805	892 300 000		4				30		REC		15mA	B4	RR
1807	892 300 000		4				30		REC		15mA	B4	RR
1810	003 200 000	D1	4				30		REC		15mA	B4	R
1815	892 300 000		4				60		REC		20mA	B4	RR
1817	892 300 000		4				120		REC		30mA	B4	RR
1821	892 300 000		4				30		REC		15mA	B4	RR
1823	892 300 000		4				30		REC		15mA	B4	RR

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
1831	892 300 000		4				30			REC		12mA	B4	RR
1832	082 300 000		4				120			REC		30mA	B4	R
1851	026 510 310	G1	6	2	300	150	10	9		100		8	AO8	P
1851GT	026 510 310	G1	6	2	300	150	10	9		100	100		AO8	P
1852	021 415 360		6	2	300	150	10	9		100	100	8	AO8	P
1853	021 415 360		6	3	300	200	12.5	5		100	150	5	AO8	P
1853GT	026 510 310	G1	6.3	3	300	200	12.5	5		100	100		AO8	P
1861	892 300 000		4				60			REC		20mA	B4	RR
1867	389 200 000		4				60			REC		20mA	UX4	RR
1868	023 180 090		4				60			REC		20mA	F8	RR
1875	023 000 000	D1	4				5			D			8SC	R
1876	123 000 080		4				5			D			8SC	R
1877	002 300 000	D1	4				3			D			B4	R
1881A	892 300 000		4				30			REC		15mA	B4	RR
1882	023 080 090		5				60			REC		20mA	8SC	RR
1883	023 080 090		5				60			REC		20mA	8SC	RR
1884	120 908 030		2.5				15			REC		15	AO8	RR
2033	762 344 100		6	1	100		9.5	6		100		6	B7G	TT
2051	026 041 310		6		250		75	3kΩ		No Data Available			AO8	THY
2101	264 530 000		2	4.5	150	150	8	1.7		100	100	1.7	UX5	P
2102	268 953 000		2	1	100		2.5	1.3		100		1.3	UX6	DDT
2103	274 546 300		2	7.5	150	150	4	1.5		100	100	1.6	UX7	PP
2151	265 413 000		14	31	250	250	47	2.7		100	150	2.4	UX6	P
2318	892 300 000		4				30			REC		15mA	B4	RR
3506	892 300 000		4				15			REC		10mA	B4	RR
3006	802 300 000		4				3			D			B4	D
3041	652 430 000		1.2	1	20	20	0.2	0.3		No Data Available			B5A	P
3041A	652 430 000		1.2	1	20	20	0.2	0.3		No Data Available			B5A	P
3074A	204 140 300		6		300		50	3		No Data Available			UX7	TT
3075A	002 300 000	D1	2				3			D			B4	D
3310A	265 113 000	G1	10		250	150	5.6	2		100	100		UX6	P
3311A	265 113 000	G1	10		200	150	33	3		100	100		UX6	P
3328A	265 113 000	G1	7.5		250	150	5.6	1.9		100	100		UX6	P
3329A	265 113 000	G1	7.5		200	125	31	2.9		100	100		UX6	P
3481	026 510 310	G1	6	13.5	150	150	5.5	1.8		100	100	1.8	AO8	P
3720	364 200 000		5	1.5	200		0.2	0.2		150		0.2	UX4	T
3872	364 200 000		2	9	150		3			100			UX4	T
3873	365 200 000	G1	2	3	150	75	1.5	0.6		100	75	0.6	UX4	P
3921	264 300 000		2.5	50	250		34	2.1		100		2.1	UX4	T
3924	265 130 000	G1	2.5	3	200	90	4	1		100	90	1	UX5	P
4019A	264 300 000		4		200		9.7	1.3		100		1.2	UX4	T
4019B	642 300 000		4	4	100		7.5	1.2		100		1.2	B4	T
4020A	264 300 000		2	2	150		1.2	0.6		100		0.6	UX4	T
4020B	642 300 000		2	2	150		1.2	0.6		100		0.6	B4	T
4021A	264 300 000		4	10	150		32.5	3		100		0.6	UX4	T
4021B	642 300 000		4	8	150		23	3		100		3	B4	T
4022AR	264 300 000		4	6	200		16.2	2.2		100		2.0	UX4	T
4022B	642 300 000		4	6	200		16.2	2.2		100		2.0	B4	T
4033	264 130 000		6	20	400		50	9		100		8	UX5	T
4033A	642 310 000		6	20	400		50	9		100		8	B5	T
4033L	642 310 000		6	20	400		60	10		100		8	B5	T
4037A	802 300 000		4				120			REC		30mA	B4	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
4045A	642 350 000		5	70	250	60	43	1.3	No Data Available			B5	P
4061A	205 411 300	A1	6	10	400	200	50	2.5	100	150	2.5	B7	P
4074A	204 140 300	A1/A2	6	13	300		15	3	100		3	UX7	TT
4077A	003 200 000	D1	5				120		REC		30mA	B4	R
4264A	364 200 000		1.5		100			0.5	100		6	UX4	T
4274A	289 300 000		5				120		REC		30mA	UX4	RR
4300A	364 200 000		5	90	400		50		No Data Available			UX4	T
4310A	265 113 000	G1	10	5.5	250	150	5.2	2	100	100	2	UX6	P
4328A	265 113 000	G1	7.5	5.5	250	175		2	100	150	2	UX6	T
4328D	026 510 310	G1	7.5	5.5	250	150	6.2	2	100	100	2	AO8	T
4605	264 130 000		1.8	6	220		4		100			UX5	T
4606	423 600 000		4.5	9	130		8.5	1	100		.8	VX4	T
4607	423 600 000		2.1	1.6	130		0.7	0.5	100		.4	VX4	T
4608	642 310 000		4	6	150		11	2.5	100		2.5	B5	T
4609	423 600 000		4.2	5	130		8	2.3	100		1.8	UX4	T
4610	542 310 000	A1	4	1.3	200	100	1.5	0.9	100	100	0.9	B5	P
4611	364 200 000		6	40	200		20	1.7	No Data Available			UX4	T
4611	642 300 000		6	40	200		20	1.7	No Data Available			B4	T
4612	642 300 000		4	40	250		40	2.7	No Data Available			B4	T
4613	642 300 000		4	22	250		48	3.5	No Data Available			B4	T
4614	642 310 000		4	16	200		12	1.3	No Data Available			B5	T
4617	423 600 000		4	0.8	130		25	3	100		2.4	VX4	T
4618	542 310 000	A1	4	2	200	100	3	2.2	100	100	2.2	B5	P
4619	892 300 000		4				30		REC		15mA	B4	RR
4623	123 000 000	D1	6.3				5		D			B3G	D
4630	423 600 000		4.2	8.4	180		8.5	1.3	100		.8	UX4	T
4631	264 300 000		2	1.5	150		0.7		150			UX4	T
4635	642 310 000		4	16	200		12	9	No Data Available			B5	T
4636	542 310 000		4	2	200	100	3	2.3	100	100		B5	P
4650	642 350 000		4	63	300	300	30		No Data Available			B5	P
4651	023 180 090		6.3				60		REC		20mA	8SC	RR
4652	892 300 000		4				60		REC		20mA	B4	RR
4654	411 230 050	A1	6	14	250	275	72	8.5	No Data Available			8SC	P
4654K	023 114 500	A1	6	12.5	250	275	72	8.5	125	125		8SC	P
4654P	411 230 050	A1	6	14	250	275	72	8.5	No Data Available			8SC	P
4655	462 300 000		4.5				60		REC		15mA	B4	RR
4657	642 310 000		4	1.5	200		1	2.2	200		2.2	B5	T
4670	432 564 570		2	8.5	90	90	1		80	75		8SC	PP
4671	264 310 000		6.3	5	200		4.5	2	100			5AA	T
4672	513 100 000	A1/G1	6.3	3	90	90	1.2	1.1	100	100	1.1	5AA	P
4673	642 310 000	G1	4	2.5	250	200	8	5	100	150	5	B5	P
4673	023 110 560	G1	4	4	250	200	8	5	100	150	5	8SC	P
4675	264 310 000		4	5	200		4.5	2	100			5AA	T
4676	251 310 000	A1/G1	4	3	250	100	2	1.4	100	100		5AA	P
4679	023 110 560		6	2.5	250	200	8	5	100		4.6	8SC	P
4682	023 100 560	G1	4		375	250	24		100	150		8SC	P
4683	023 004 060		4		350		43		100			8SC	T
4684	023 104 560		4		400	250	24		100	150		8SC	P
4688	023 104 560		4		400	275	48		100	150		8SC	P
4689	026 540 310		6.3		400	275	48		No Data Available			AO8	P
4689	023 104 560		6		400	275	48		100	150		8SC	P
4694	023 104 560		6	7.5	400	250	24	8	100	150		8SC	P
4695	251 310 000	A1/G1	6.3	3	250	100	6.7	1.7	100	100		5AA	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
4696	023 180 560	G1	6.3	2.5	250	150	8	14	No Data Available			F8	DP
4699	023 104 560		6	12.5	300	300	55	13	100	150	9	85C	P
5222	402 613 060		6.3	1	100		0.7	1.7	100		1.7	B8D	T
5516	235 242 300	A1	3	14	400	250	75	4	100	150	4	AO8	P
5556	264 300 000		4.5	30	350		9	0.9	No Data Available			UX4	T
5590	412 365 100		6	4.5	90	90	3.9	2	80	90	2	B7G	P
5591	412 365 100		6	1.9	200	125	7.7	5	125	100	5	B7G	P
5603	021 415 360		6	12.5	150	150	50	5.4	100	100	5	AO8	P
5608	412 365 100		6	12	150	125	7.5	5	100	90	5	B7G	P
5610	612 364 000		6	1.5	90		17	4	80		4	B7G	T
5618	265 134 200		3	8	300	75	19	3.5	100	60	3.5	B7G	P
5635	442 *63 710		6	0.5	100		4.8		100		3.8	B8B	TT
5636	412 163 510		6	1.4	100	100	5.3	3.3	100	100	1.9	B8D	P
5637	402 013 060		6		100		1.4	2.7	100		2.7	B8B	T
5639	412 163 510		6	2.6	150	100	21	9	100	100	9	B8D	P
5640	412 163 510		6	6	100	100	31	5	100	100	5	B8B	P
5641	082 813 080		6				30		REC		15mA	B8D	R
5642	023 000 000	D1	1.2				0.25		D			B3G	D
5643	612 113 410		6.3		400		75	5kΩ	No Data Available			B8D	THY
5645	612 430 000		6.3	2.8	100		5	2.7	100		2.7	B5B	T
5646	612 430 000		6.3	1.1	100		1.4	2.4	100		2.4	B5B	T
5647	381 280 000		6				5.0		D			B5A	D
5654	412 365 100		6	2	150	125	7.5	5	100	100	5	B7G	P
5656	544 231 761		6.3	2	150	125	15	5.8	100	100		B9A	PP
5659	026 540 310		12.5	12.5	250	250	32	3	100	150		AO8	P
5660	026 895 310	G1	12.5	3	250	125	10	1.3	100	100	1.3	AO8	DDP
5661	021 415 360		12.5	0.4	250	100	9.2	2	100	100	2	AO8	P
5670	214 607 413		6	2	150		8.2	5.5	125		5.5	B9A	TT
5672	653 420 000		1.2	6.5	60	60	3.1	0.6	No Data Available			B5A	P
5676	624 300 000		1.2	5	150		4	1.6	125		1.6	B5A	T
5677	634 200 000		1.2	6	150		1.9	0.6	100			B5A	T
5678	652 430 000		1.2	0	60	60	1.8	1	No Data Available			B5A	P
5679	218 309 120		6				5		D			B8B	RR
5686	141 235 615		6	12.5	250	250	27	3.1	100	100		B9A	P
5687	741 221 436		6.3	12.5	250		12.5	5.0	100		7	B9A	TT
5690	238 192 310		6				20		REC		30mA	AO8	RR
5691	471 461 230		6	2	250		2.3	1.6	150		1.6	AO8	TT
5692	471 461 230		6	9	250		6.5	2.2	100		2.2	AO8	TT
5693	021 415 360		6	3	250	100	3	1.6	100	100	1.6	AO8	P
5694	126 447 310		6	6	300		7	3.2	No Data Available			AO8	TT
5702	652 311 400		6.3	2	150	115	7.5	5	100	100	5	B7G	P
5703	623 410 000		6.3	2	150		9	5	100		5	B5A	T
5704	623 100 000		6.3				5		D			B5A	R
5718	402 013 060		6	2	100		13	5.5	100		5.5	B8D	T
5719	402 013 060		6	1.3	150		1.8	2.3	100		1.6	B8B	T
5722	802 208 300		3						D			B7G	D
5725	412 365 100		6	2	150	125	5.2	3.2	100	100	3.5	B7G	P
5726	192 310 800		6.3				5		D			B7G	RR
5732	026 510 310	G1	6	3	150	100	8	2.2	100	100	2	AO8	P
5744	623 410 000		6.3	2	250		4	4	100			B5A	T
5749	412 365 100		6	1	250	100	11	4.4	100	100	4.3	B7G	P
5750	412 365 000		6	1.5	510	100	3	7	100		6	B7G	H

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
5751	741 226 413		6	3	250		1	1.2	100		1.2	B9A	TT
5755	714 224 163		6	2	250		2.3	1.6	200		1.6	AO8	TT
5763	601 235 144		6	7.5	250	250	45	7	100	150	7	B9A	P
5784	652 311 400		6.3	2	150	125	5.2	3.2	100	100	3	B7G	P
5785	823 000 000		1.2						D			B3G	D
5797	411 235 600		26.5	1	30	30	0.5	1	No Data Available			B8D	P
5798	741 231 460		26	0	20		2.3	3.1	No Data Available			B8D	TT
5812	413 365 200		3	23	250	250	40	4.1	100	150	4.1	B7G	P
5814	741 226 413		6	8.5	250		10.5	2.2	100		3	B9A	TT
5814A	741 226 413		6	8.5	250		10.5	2.2	100		3	B9A	TT
5824	026 540 310		25	22	150	125	61	5	125	125	5	A08	P
5825	200 300 000	D1	1.5				2		D			UX4	D
5838	028 090 310		12				30		REC		15mA	B8A	RR
5839	028 090 310		26.5				180		REC		30mA	AO8	RR
5840	412 163 510		6	1.4	100	100	7	5	100	100	5	B8D	P
5842	602 441 443		6	1.5	150		26	24	100		2.4	B9A	T
5844	672 344 100		6	2.3	100		4.8	3.4	100		3.4	B7G	TT
5845	802 290 300		6				5		D			B7G	DD
5847	402 106 053		6	2	150	150	13	12.5	150	150	12	B9A	P
5851	206 005 340		2.5	7.5	150	125	5.5	1.6	125	125	1.6	B8B	P
5852	028 090 310		6				30		REC		15mA	AO8	RR
5854	653 420 000		1.2	2	40	40	0.8	0.5	No Data Available			B5A	P
5871	026 540 310		6.3	12.5	250	250	45	4.5	100	150	4	AO8	P
5873	264 114 730		6	3	150		9	2.9	100		2.3	B8B	TT
5875	652 430 000		1.2	0	90	90	3.5	2.5	80	90		B5A	P
5879	401 230 561		6	3	250	100	1.8	1	100	100	1	B9A	P
5881	026 540 310		6	12.5	300	200	48	5.3	100	150	5	AO8	P
5882	028 090 310		12.6				30		REC		20mA	AO8	RR
5894	245 134 200	A1/A2	6		400	250	30	3.4	No Data Available			B7A	PP
5896	812 093 100		6				15		REC		15mA	B8B	RR
5897	402 013 060		6	2.3	150		14	6.5	100		5.8	B8A	T
5898	402 013 060		6	2	150		1.8	2.3	100		1.7	B8A	T
5899	412 163 510		6	1.4	100	100	7.2	4.5	100	100	5	B8D	P
5900	412 163 510		6		100	100	7.2	4.5	100	100	5	B8A	P
5901	412 163 510		6	1.5	100	100	7.5	5	100	100	5	B8A	P
5902	412 163 510		6	6.5	100	100	30	4.2	100	100		B8A	P
5903	812 093 100		26				5		D			B8B	RR
5904	402 013 060		26	0	20		3	5	No Data Available			B8D	T
5905	412 163 510		26		20	20	2.3	2.8	No Data Available			B8A	P
5906	412 163 510		26	1.5	100	100	7.5	5	100	100	5	AO8	P
5907	412 163 510		26		20	20	2.7	3	No Data Available			B8A	P
5908	412 163 510		26		20	20	2.3	1.7	No Data Available			B8A	P
5910	265 *24 300		1.4		90	90	1.6	0.9	100	90	0.9	B7G	P
5915	412 365 100		6	0	75	75	6.3	2	80	75	2	B7G	H
5916	412 163 510		26		100	100	4.4	1.3	100	100	1.3	B8A	P
5920	762 344 100		6	2.1	100		8.5	6	100		6	B7G	TT
5930	264 300 000		2.5	45	250		60	5.2	No Data Available			UX4	T
5931	020 809 030		5				120		REC		30mA	AO8	RR
5932	026 540 310		6	14	250	250	72	6	100	150	6	AO8	P
5933	354 120 000	A1	6	14	300	250	83	6.5	100	150	6	UX5	P
5947	222 833 380		4.4						D			AO8	D
5961	126 541 340		6		250	100			100	100		AO8	H

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
5963	741 226 413		6	2	75		3.5	2	100		2.5	B9A	TT
5964	762 344 100		6	1	100		9.5	6	100		6	B7G	TT
5965	741 226 413		6	1.8	150		8.2	6.5	150		6	B9A	TT
5967	624 334 270		1.2		40		3	2	No Data Available			B8B	TT
5968	240 670 430		1.2	0	40		0.7	1.3	No Data Available			B8B	TT
5969	245 675 430		1.2	3	125	40	6	1.7	No Data Available			B8B	PP
5970	245 675 430		1.2		40	40	3	1.8	No Data Available			B8D	PP
5971	642 430 000		1.2	2.5	150		5.6	2.5	100			B5A	T
5972	652 430 000		1.2		60	60	2.5	1.3	No Data Available			B5A	P
5975	614 230 000		6.3		200		12	4	100		4	B5A	T
5977	402 013 060		6	2.7	100		10	4.5	100		4.5	B8B	T
5987	462 613 060		6	18	100		9	1.8	100		1.8	B8B	T
5992	026 540 310		6	12.5	250	250	4.5	4.1	100	150	4	AO8	P
5993	802 010 309		6				30		REC		15mA	B9A	RR
5995	802 310 000		6.3				30		REC		15mA	B5A	R
5998	461 471 230		6	14	120		90	14	No Data Available			AO8	TT
6004	020 000 030	D1/D2	2.5				60		REC		20mA	AO8	RR
6005	412 365 400		6	12.5	250	250	4.5	4	100	150	4	B7G	P
6006	021 415 360		6	14	250	125	11	4.7	100	100		AO8	P
6007	653 420 000		1.2	0.2	20	20	0.4	0.4	No Data Available			B5A	P
6008	653 420 000		0.6	1.1	20	20	0.5	0.1	No Data Available			B5A	P
6021	642 113 470		6	1.0	100		6.5	5.4	100		5	B8D	TT
6026	001 230 460		6	2.6	150		12	5.9	100		5.9	B8B	T
6028	412 365 100		20	1.8	150	125	7.5	5	100		5	B7G	P
6029	624 300 000		1.2	4	90		11	2	80			B5A	T
Ø6030	672 344 100		6	3 0.8	150		5	4.5	100		5.8	B7G	TT
					100		8.5	5.8	100		5.8		
6042	461 471 230		25	8	250		9	2.6	100		2.6	AO8	TT
6045	672 344 100		6	0.5	100		9	6.4	100		6.4	B7G	TT
6046	026 540 310		25	8.2	200	125	4.6	8	100	125	8	AO8	P
6049	412 163 510		6.3	1.5	100	100	7.4	3.5	100	100	3.5	B8A	P
6050	624 300 000		1.2	5	150		4	1.6	100			B5A	T
6051	652 430 000		1.2	4	40	40	3	1.2	No Data Available			B5A	P
6052	812 093 100		6				30		REC			B8B	RR
6053	812 093 100		26				5		D			B8B	DD
6055	402 013 060		26		40			4.7	No Data Available			B8D	T
6056	412 163 510		26		40	40		3	No Data Available			B8D	P
6057	741 226 413		6	2	250		1.2	1.6	150		1.6	B9A	TT
6058	192 310 800		6				9		D			B7G	DD
6059	041 230 651		6	3	250	100	2	1.2	100	100	1.2	B9A	P
6060	741 226 413		6	2	250		10	5.5	200		5	B9A	TT
6061	*41 230 651		6	13	300	225	34	3.7	100	150	3.7	B9A	P
6062	601 235 144		6	7.5	250	250	45	7	100	150	7	B9A	P
6063	802 309 100		6				30		REC		15mA	B7G	RR
Ξ6064	412 361 500		6	2 1.5	250	250	10	7.5	100	150	5	B7G	P
					200	150	4	6.4	100	150	5		
6065	412 361 500		6	2.5	250	250	8	2.5	100	100	2.5	B7G	P
6066	412 389 600		6	3	250		1	1.2	150		1.2	B7G	DDT
6067	741 226 413		6	8.5	250		10.5	2.2	100		2.2	B9A	TT
6068	021 040 350		6.3	8	400	150	36	5.3	100	100		AO8	P
6072	741 226 413		6	4	250		3	1.7	100		1.7	B9A	TT
△6080	471 461 230		6	30	100		100	7	No Data Available			AO8	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6082	471 461 230		26.5	30	100		100	7	No Data Available			AO8	TT
6084	501 236 014		6	2	250	125	10	9	150	100		B9A	P
6085	641 227 413		6	5.5	250		6	2.7	100		2	B9A	TT
6086	541 236 **1		18	1.8	200	100	8.3	8.2	100	100	8	B9A	P
6087	020 809 030		6				60		REC 20mA			AO8	RR
6088	653 420 000		1.2	1.2	40	40	0.7	0.6	No Data Available			B5A	P
6092	653 420 000		1.2	6.5	60	60	2.9	0.7	No Data Available			B5A	P
6094	452 634 516		6	12.5	250	250	45	6	100	150	6	B9A	P
6095	412 365 400		6	12.5	250	250	45	4.1	100	150	4	B7G	P
6096	412 365 100		6	2	150	125	7.5	5	125	125	5	B7G	P
6097	192 310 800		6				9		D			B7G	DD
6098	106 052 430		6	22.5	250	250	77	5.4	100	100		AO8	P
6099	672 344 100		6	3 0.8	150		5	4.5	100		5.8	B7G	TT
6100	6*2 364 100		6		8.5	250		10.5	2.2	100			
6101	762 344 100		6	2	150		9	5.5	100		6	B7G	TT
6106	020 809 030		5				60		REC 20mA			AO8	RR
6110	812 093 100		6				5		D			B8B	RR
6111	642 113 470		6	1.9	100		8.5	5	100		5	B8B	TT
6112	642 113 470		6	1.4	150		1.7	2.5	100		0.8	AO8	TT
6113	641 471 230		6	3	250		3	1.7	100		1.6	AO8	TT
6118	026 890 310		6	3	250		1.0	1.2	150		1.3	AO8	DDT
6125	6*2 364 100		6	8.5	250		10.5	2.2	150		2.2	B7G	T
6132	*41 230 651		6	4.5	250	250	40	11	100	150	9	B9A	P
6134	021 415 360		6	2	300	150	10	9	100	150		AO8	P
6135	6*2 364 100		6	8.5	250		10.5	2.2	100		2.2	B7G	T
6136	412 365 100		6	1	250	150	10.6	5.2	100	150	5	B7G	P
6137	021 415 360		6	3	250	100	9.2	2	100	100	2	AO8	P
6145	265 104 130		6.3		150	100	34	10	100	100		B7G	P
6146	125 141 310	A1	6	28	200	200	100	7	No Data Available			AO8	P
6147	206 035 240		1.2	7.5	150	125	5.5	1.6	100	125	1.5	B8B	P
6149	623 410 000		6.3		150		9	5	100			B5A	T
6151	623 410 000		6.3	0	250		4	4	100			B5A	T
6152	614 230 000		6.3		200		12	4	100			B5A	T
6153T	023 164 570	G1	6	2 2	100		16	5	100	60	5	8SC	TH
6156	412 360 500		6		13.5	250	100	12	3.5	100	100		
6157	**1 23* ***	D1	6		250	250	16	2.6	100	150	2.6	B7G	P
6158	741 226 413		6	4.6	250		6	2.3	100		30mA	B9A	R
6159	125 141 310	A1	26	30	200	200	100	7	No Data Available			AO8	P
6169	642 113 640		6	1	200		11	6.5	100		6.5	AO8	T
6180	461 471 230		6	8	250		9	2.6	100		2.6	AO8	TT
6186	412 365 100		6	1.4	250	150	7	5	100	100	4	B7G	P
6187	412 365 100		6	2	150	125	5.2	3.2	100	125	3	B7G	P
6188	461 471 230		6	2	250		2.3	1.6	150		1.4	AO8	TT
6189	641 227 413		6	8.5	250		10.5	2.2	100		3	B9A	TT
6197	145 236 154		6	3	250	150	30	11	100	150	10	B9A	P
6201	741 226 413		6	2	250		10	5.5	100		5	B9A	TT
6202	802 309 100		6				60		REC 20mA			B7G	RR
6203	800 230 109		6				70		REC			B9A	RR
6205	412 163 510		6	4	100	100	7.5	5	100	100	5	B8D	P
6206	412 163 510		6.3	1.3	100	100	7.5	5	100	100	4.5	B8A	P
6211	741 226 413		6	1.2	100		4.6	3.6	100		3.6	B9A	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6216	641 236 510		6	6	200	100	47	8.8	100	100		B9A	P
6222	402 613 080		6.3	1	100		0.7	1.7	100		1.7	B8D	T
6227	041 230 651		6	5.2	200	200	30	9	100	100		B9A	P
6245	652 311 400		6.3	0	150	150	7.5	5.0	100	100		B7G	P
6247	442 613 000	A1	6	3	200		4	3	100		2.6	B7G	T
6252	245 134 200	A1/A2	6.3	17	400	200	20	6.5	No Data Available			B7A	PP
6265	412 365 100		6	1	250	150	9	4	100	125		B7G	P
6267	501 236 014		6	1.0	250	100	3.0	1.8				B9A	P
6281	653 420 000		6	0.6	20	20			No Data Available			B5A	P
6286	624 300 000		1.2	2	60		6	2.1	No Data Available			B5A	T
6287	156 236 546		6	12.5	250	250	48	4.1	100	100		B9A	P
6293	125 141 300	A1	6		200	200	100	7.3	No Data Available			AO8	P
6302	265 113 000	G1	6	2.2	300	150	11	9	No Data Available			UX6	P
6305	112 311 100	D1	4				5		REC		5mA	B7G	R
6325	108 090 230		6				60		REC		20mA	AO8	RR
6327	121 040 350		6	22.5	250	250	120	8	100	100		AO8	P
6350	614 227 143		6	5	150		11	4.6	100		5	B9A	TT
6351	141 321 655		6	2	350	250	12.5	11.5	No Data Available			B9A	P
6352	2** 382 930		1.5						D			B8A	D
6360	414 226 573		6.3	15	200	200	30	3.3	No Data Available			B9A	PP
6374	**1 23* **8	D1	6				120		REC		30mA	B9A	R
6375	400 230 060		1.2	4.5	150		12.0	3.4	150		3.4	B8D	T
6384	106 052 430		6.3	22	250	250	77	5.5	No Data Available			AO8	P
6385	214 607 413		6	2.1	150		82	5.5	125		5.5	B9A	TT
6386	214 607 413		6	2	100		9.6	4	100		4	B9A	TT
6394	461 471 230		26.5	45	150		100	11	No Data Available			AO8	TT
6397Spec	206 035 240		1.2		150	150	9	2.3	100	100		B8D	P
6414	641 227 413		6.3	2	200		8	5.5	100			B9A	TT
6417	601 235 144		12.5	7.5	250	250	45	7	100	150	7	B9A	P
6418	652 430 000		1.2	1.2	20	20	0.2	0.3	No Data Available			B5A	P
6419	652 430 000		0.6	0.6	15	15	0.06	0.1	No Data Available			B5A	P
6443	**1 23* ***	D1	6				120		REC		36mA	B9A	R
6463	614 227 143		6	10	250		14.5	5.2	100			B9A	TT
6485	412 365 100		6	1.6	300	150	10	9	100	100		B7G	P
6486/A	410 263 511		6.3	2	150	125	3.5	3.2	125	125	3.5	B9A	P
6488	412 653 160		6	2.0	100	100	7.5	5.0	100	100	5.0	B8D	P
6489	261 360 000		6		100		8		100			Sm5	T
6516	412 360 500		6	13.5	250	250	16.0	2.6	100	150	2.6	B7G	P
6519	653 420 000		1.2		22.5	22.5	0.4	0.4	No Data Available			B5A	P
6520	461 471 230		6	60	150		50	7	No Data Available			AO8	TT
6526	652 430 000		1.2	6	100	100	6.5	1.9	100	100		B5A	P
△ 6528	471 461 230		6	20	200				No Data Available			AO8	TT
6533	644 612 360		6		150		0.9	1.7	100			B8D	T
6535	672 344 100		6	0.8	100		8.5	5.3	100		5.3	B7G	TT
6542	542 134 500	A1/A2	6	2	200	200	50	4.5	100	100		B7A	PP
6550	026 540 310		6	16.5	400	225	87	9	No Data Available			AO8	P
6582A	410 263 511		6		150	125	7.5	4.5	100	100		B9A	P
6611	652 430 000		1.2		40	40	1	1	No Data Available			B5A	P
6612	652 430 000		1.2		40	40	3	3	No Data Available			B5A	P
6660	412 365 100		6	1.1	250	100	11	4.4	100	100	4.3	B7G	P
6661	412 365 100		6	1.0	250	150	7.4	4.6	100	100		B7G	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6662	412 365 100		6	1.0	250	100	9.2	3.6	100	100	3.6	B7G	P
6663	182 310 900		6				9		D			B7G	DD
6664	412 389 600		6	12	250		10	5.5	100			B7G	DDT
6669	412 365 400		6	12.5	250	250	47	4.1	100	150	4	AO8	P
6676	412 365 100		6	56	150	150	13	8	100	100		B7G	P
6677	145 236 154		6	3	250	150	30	11	100	100		B9A	P
6678	645 237 114		6	{ 1.6 0.9	150 250	100	18 10	8.5 5.2	100 100	60 100	9 5	B9A	TP
6679	641 227 413		6	2	250		10	5.5	100		5	B9A	TT
6680	641 227 413		6	8.5	250		10.5	2.2	100		2.2	B9A	TT
6681	641 227 413		6	2	250		1.2	1.6	150		1.6	B9A	TT
6686	041 230 651		6	2.5	200	200	20	11	100	100		B9A	P
6687	412 365 100		6	5	150	75	0.5	0.6	125	75	0.6	B7G	H
6688	141 23* 615		6	1	200	150	13.1	16.5	No Data Available			B9A	P
6689	541 236 **1		6	1.7	200	125	10	9	100	100		B9A	P
6690	742 163 410		6	0.8	100		8	4.8	100		4.8	B8A	TT
6697	641 227 413		6	8.5	250		10	2.0	150			B9A	TT
6754	801 023 109		6				30		REC		15mA	B9A	RR
6760	641 236 510		18	7.5	150	125	70	12	No Data Available			B9A	P
6761	641 236 510		6	7.5	150	125	70	13	No Data Available			B9A	P
6788	412 163 510		6	1.4	100	100	0.8	1.1	100	100	1.1	B8A	P
6814	402 013 060		6		100		10	6	100		6	B8A	T
6829	641 227 413		6	2.2	150		10.7	8.1	150		8.1	B9A	TT
6832	642 113 470		6		100		0.7	1	100			B8D	TT
6840	614 227 130		6.3		250		14	6.7	100			B8D	P
6850	542 134 500	A1/A2	12		200	200	50	4.5	100	100		B7A	PP
6851	641 227 413		6.3	3.1	250		1	1.2	100		1.2	B9A	TT
6853	030 809 020		5				60		REC		20mA	AO8	RR
6854	214 607 413		6.3	19.6	150		8.2	5.2	100		5.2	B9A	TT
6870	141 223 651		6	3.5	250	250	25	8.5	100	100	8	B9A	P
6872	521 413 100	A1	6.3	1	400	100	3.5	2.2	100	100		B7G	P
6877	402 634 016		6.3	12	100		75	6.5	No Data Available			B9A	T
6883	125 141 130	A1	12	30	200	200	100	7	No Data Available			B9A	P
6887	182 310 900		6				10		D			B7G	DD
6888	021 415 600		6.3		150	90	38		100	90		AO8	P
6889	200 053 420	A1	6.3	22.5	250	250	77	5.4	100	100		AO8	P
6893	125 141 130	A1	12	30	200	200	100	7	No Data Available			B9A	P
6900	741 221 436		6.3	2	150		36	11.5	No Data Available			B9A	TT
6907	245 134 200	A1/A2	6.3	50	400	250	100		No Data Available			B7A	PP
6913	741 226 413		6.3	5	150		11	4.6	100			B9A	TT
6919	182 310 900		6				5		D			B7G	RR
6922	641 327 411		6.3	1.2	90		15	12.5	No Data Available			B9A	TT
Ø6927	672 344 100		6	{ 3 0.8	150 100		5 8.5	4.5 5.8	100 100		5 5	B7G	TT
6928	412 365 400		6	12.5	250	250	45	4.1	100	150	4	B7G	P
6939	414 226 573		6.3	100	150	150	25	10.5	No Data Available			B9A	PP
6934	412 163 510		6.3		100	100	8	3.6	100	100	3.6	B8D	P
6944	412 163 510		6.3		100	100	7	3.2	100	100	3.2	B8D	P
6945	412 163 510		6.3		100	100	25	3.5	100	100		B8D	P
6946	402 013 060		6.3		100		9	3.8	100			B8D	T
6947	642 113 470		6.3		150		6.5	4	100			B8D	TT
6948	642 113 470		6.3		100		0.8	1.6	100			B8D	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6954	412 365 100		6.3	1	150	150	5.9	2	100	100		B7G	P
6955	641 227 413		6	8.5	250		11.5	2.3	100			B9A	TT
6968	402 365 100		6.3	2	150	125	7.5	5	125	100	4	B7G	P
6973	504 234 156		6.3	15	250	250	46	4.8	100	100		B9A	P
7000	026 510 310	G1	6	3	250	100	2	1.2	100	100	1.2	AO8	P
7025	741 236 413		6	2	250		1.2	1.6	150		1.6	B9A	TT
7027	526 544 310		6.3		200	200			100	100		B8A	P
7032	412 365 100		6.3	2	250	100	4.5	1.8	100	100		B7G	H
7036	412 365 100		6	0	75	75	6.3	2	80	75	2	B7G	H
7044	641 221 437		6.3	2	150		36	10	No Data Available			B9A	TT
7051	645 237 114		6.3	{ 1.0 1.0	150 200		18 10	8.5 5	100 100	60 100	8	B9A	TP
7054	141 23* 651		13.5	2.7	250	150	19	11.5	100	100		B9A	P
7055	182 310 900		13.5				5		D			B7G	RR
7056	412 365 100		13.5	2.2	200	150	9.5	6.2	100	100		B7G	P
7057	641 237 410		13.5	2.2	150		10	6.8	100			B9A	TT
7058	641 237 410		13.5		250		1.2	1.6	100			B9A	TT
7059	645 237 114		13.5	{ 1 0.9	150 250	100	18 10	8.5 5.2	100 100	60 100	8 5	B9A	TP
7060	641 237 541		13.5	{ 1.5 1.6	150 200	125	9 15	4.9 7	100 100	60 100		B9A	TP
7061	504 234 156		13.5	10	200	200	36	4.2	100	100		B9A	P
7062	641 227 413		6.3	0.8	100		8.5	7.8	100		8.5	B9A	TT
7066	208 564 300		1.4		100	100	1.1	0.4	100	100	0.4	B7G	DP
7071	*** 23* ***	D1	6.3						D			B9A	D
7072	*** 23* **8	C	6.3				180		REC		40mA	B9A	R
7073	*** 23* **8	C	26				180		REC		40mA	B9A	R
7074	641 234 146		6.3		200		12	14	No Data Available			B9A	T
7075	641 234 146		3.8		200		12	14	No Data Available			B9A	T
7078	041 230 651		6.3	2.0	250	100	9	4.4	100	100	4	B9A	P
7079	041 230 651		12.6		200	100	12	4.4	100	100	4	B9A	P
△ 7105	471 461 230		12.6	30	100				No Data Available			AO8	TT
7108	501 236 014		6.3		250	150	3	2	100	100		B9A	P
7110	141 230 651		6.3	3.5	250	250	10	6.8	100	100		B9A	P
7118	641 227 413		6.3	1.4	100		8.5	5.6	100		5.6	B9A	TT
7119	641 221 437		6.3	7	200		23	6.4	100		6.4	B9A	TT
7125	541 236 891		6.3	2	250	100	9	3.8	100	100	3.6	B9A	DDP
7137	412 344 600		6.3	1.3	150		13.5	8.5	100			B7G	T
7143	412 314 600		3.1	1.0	200		11.5	6.7	100		6	B7G	T
7144	641 237 410		6.3	1.2	90		15	12.5	No Data Available			B9A	TT
7145	501 236 014		6.3	2.0	50	50	1.8		80	60		B9A	P
7150	631 421 1*5		6.3		150	125	24	34	No Data Available			B9A	P
7167	412 365 100		13.5	1	150	80	10	8	No Data Available			B7G	P
7184	026 540 310		6.3	12.5	250	250	47	4.1	100	100		AO8	P
7189	*41 23* 6*5		6.3	7.3	250	250	48	11.3	No Data Available			B9A	P
7193	020 000 310	A1/G1	6	10.5	300		11	3	100		3	AO8	T
7199	675 231 414		6.3	{ 8 1.5	200 250		9 12.5	2 7	100 100	60 100		B9A	TP
7212	125 142 360		6.3	28	200	200	100	7	No Data Available			AO8	P
7227	*41 23* 651		27.5	2.5	40	40	8	5	No Data Available			B9A	P
7233	646 236 416		6.3	40	150		50	9	No Data Available			B9A	T
7236	471 461 230		6.3	14	150		100	12.5	No Data Available			AO8	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
7239	41* 235 1*1	A1	6.3	5	300	100	10.5	4.2	100	100		B9A	P
7244	672 344 100		6	0.4	100		9	6	100		5	B7G	TT
7245	412 344 600		6.3		150		13.5	11	100			B7G	T
7247	641 227 413		6.3	2 8.5 3	250		1.2	1.6	100		1.6	B9A	TT
7258	641 237 541		12.5		250		10.5	2.2	100		2.2		
7308	741 236 410		6.3	1.4	150	125	15	4.5	100	60		B9A	TP
7316	641 227 413		6.3		90		12	7.8	100	100			
7318	641 227 413		6.3		100		12	11.5	No Data Available			B9A	TT
7320	041 230 605		6.3	8.5	250		11.8	3.1	100		3	B9A	TT
7355	026 014 350		6.3		250	250	7.6		100	100		AO8	P
7358	125 141 300		6.3		200	200	7		100	100		AO8	P
7370	641 221 437		20	2	120		36	11.5	100		11.5	B9A	TT
7382	412 300 600		6.3	2	250		1.2	1.6	100		1.6	B7G	T
7408	026 540 310		6.3	12.5	250	250	4.7	4.6	100	100		AO8	P
7489	741 226 413		6.3	8.5	250		10.5	2.2	100			B9A	TT
7492	741 226 413		6.3		250			5.5	100			B9A	TT
7498	412 361 500		6.3		250	250		7.5	100	100		B7G	P
7534	*2* 54* 310	A	6.3	15.5	250	150	100	25.0	No Data Available			AO8	P
7543	412 365 100		6.3	1.0	250	150	10.8	5.2	100	100	5	B7G	P
7551	145 236 151		13	18	250	250	40	5.3	80	60		B9A	P
7558	145 236 151		6.3	18	250	250	40	5.3	100	100		B9A	P
7561	026 540 310		25		100	100	555	10.5	No Data Available			AO8	P
7581	026 540 310		6.3	14	250	250	72	6	100	100		B8A	P
7591	026 514 350		6.3	10	300	300	75	10.2	100	100		AO8	P
7607	125 141 300	A1	6.3	17	300	250	80	8	100	100		AO8	P
7643	645 237 114		6.3	2 2	100		14	5	100		6	B9A	TP
7683	416 236 156		6.3		200	175	10	6.2	100	100			
7687	645 237 114		6.3	8.5	300	250	12.6	5	100	100	5	B9A	P
7693	412 365 100		6.3		200	125	7.5	2.5	100	60		B9A	TP
7694	412 365 100		6.3	100	250	150	7.4	4.6	100	100		B7G	P
7695	5** 234 1*6		6.3	80	250	100	9.2	3.6	No Data Available			B7G	P
7699	414 226 573		50	11	130	130	100	11.0	No Data Available			B9A	P
7700	265 113 000	G1	6	3	250	100	2	1.2	100	100	1.2	UX6	P
7701	141 236 515		13.6	12.5	250	250	28	3.6	100	100		B9A	P
7716	146 231 457		13.6	1.0 60	150		1.6	3	100	60	2.5	B9A	TP
7717	412 365 100		6.3		200	100	24	9.5	100	100			
7719	641 226 413		6.3	1	125	80	10	8	100	80		B7G	P
7721	141 230 615		6.3	10.5	300		4.0	3.5	100		3	B9A	T
7722	141 230 615		6.3	10	200	150	22	35	No Data Available			B9A	P
7724	181 239 146		6.3	1	200	150	34	27	No Data Available			B9A	P
7728	641 227 413		14	3.0	250		0.7	1.0	100		1	B9A	DDT
7729	641 227 413		6.3	2	250		10	5.5	100		4	B9A	TT
7730	641 227 413		6.3	2	250		1.2	1.6	100		1.2	B9A	TT
7731	641 237 114		6.3	2 1	150		18	8.5	100	60		B9A	TP
7732	412 365 100		6.3		250	100	10	5.2	100	100			
7733	141 223 651		6.3	0.95	200	125	13	8	100	100		B7G	P
7734	514 236 147		6.3	3	250	175	24	12	No Data Available			B9A	P
			6.3	21 2.0	150		35	5.4	No Data Available			B9A	TP
			6.3		150	150	5.5	3.2					

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
7738	642 314 600		6.3		400		12	9.9	No Data Available			B7G	T
7751	026 540 310		6.3	8	100	100	100	14	No Data Available			AO8	P
7752	412 365 100		6	2	150	125	5.5	3.5	100	100	3.5	B7G	P
7754	5** 234 1*6		6.3		150	150	100	11	No Data Available			B9A	P
7755	412 365 100		6		40	30	3	2.7	No Data Available			B7G	P
7756	106 052 430		6	36	300	300	58	4.3	100	150	4.3	AO8	P
7757	451 034 510		6.3	12.5	250	250	45	4.1	100	PenLF	4.0	B9A	P
7759	642 113 470		26.5	1	100		6.5	5.4	100		5.4	AO8	TT
7760	642 113 470		26.5		26.5		3	5	No Data Available			AO8	TT
7761	214 607 413		12.6		150		8.2	5.5	100			B9A	TT
7762	412 163 510		26.5	1.2	110	110	30	4.2	100	100	4	AO8	P
7788	141 235 615		6.3		150	150	35	50	No Data Available			B9A	P
7803	641 237 410		6.3	1.3	90		15	12.5	No Data Available			B9A	TT
7868	541 234 506		6.3	10	300	300	60	10.2	No Data Available			B9D	P
7887	642 113 470		26.5	1.9	100		8.5	5	100		5	AO8	TT
7888	402 031 060		26.5	2.3	150		13	6.5	100		5	AO8	T
7889	642 113 570		26.5	1.4	150		1.75	2.5	100		2	AO8	TT
7898	741 236 41*		13.5	2	250		10	5.5	100		5.5	B9A	TT
8013A	200 300 000	D1	2.5				15		REC		10mA	B4	R
8016	020 000 030	D1	1.2						D			AO8	D
8032	125 141 310	A1	13.5	32	200	200	100	7	No Data Available			AO8	P
8077	141 23* 651		13.5	2.7	250	150	19	11.5	100	100		B9A	P
8223	741 236 410		6.3	1.5	100		30	20	No Data Available			B9A	TT
8233	615 231 141		6.3	3	150	150	50	45	No Data Available			B9D	P
8255	414 234 444		6.3	1.2	150		12	13	No Data Available			B9A	T
8348	424 236 572		1.6		200	200	30	3.3	100	100		B9A	PP
9001	412 365 100		6	3	250	100	2	1.4	100	100	1.4	B7G	P
9002	612 364 100		6	7	250		6.3	2.2	100		2.2	B7G	T
9003	412 365 100		6	3	250	100	6.7	1.8	100	100	1.8	B7G	P
9004	203 180 000		6.3				5		D			5AA	R
9005	218 330 000		3.6				1		D			5AA	D
9006	812 380 100		6				5		D			B7G	R
9072	020 000 310	A1/G1	6		300		15	2.5	No Data Available			AO8	T
18004	423 600 000		4.4	25	130		22	1	100		18	UX4	T
18013	061 231 500	G1	4		200	200	8	5	100	100		B7	P
18014	005 231 600	G1	4		200	200	35	8	100	100		B7	P
18015	061 231 500		21		150	125	8	8.3	125	125	8.3	B7	P
18016	005 231 600		21		150	125	48	9	125	125	9	B7	P
18040	265 104 130		18	3.4	200	200	15	10	100	150	10	B8B	P
18042	541 236 **1		18	1.8	200	100	8.3	8.2	100	100	8	B9A	P
18043	541 236 **1		6	1.8	200	200	8.2	8.2	100	100	8	B9A	P
18045	041 230 651		18	3	200	200	20	11	100	150	10	B9A	P
18046	041 230 651		18	3	200	100	20	11	100	150	10	B9A	P
18048	261 504 130		20	4.8	250	150	16	6.5	100	100		B8D	P
95108	653 320 000		1.2	1	40	40	2.2	1	No Data Available			B5A	P
824476	461 471 230		6	8	250		9	2.6	100		2.6	AO8	TT
A11A	892 300 000		4				60		REC		20mA	B4	RR
A11B	892 300 000		4				60		REC		20mA	B4	RR
A11C	892 300 000		4				60		REC		20mA	B4	RR
A11D	892 200 000		4				60		REC		20mA	B4	RR
A20B	892 310 000		4				60		D			B5	DD

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
A23A	809 231 600	G1	4	7	250		4	2	100		2	B7	DDT
A26	264 300 000		15	1.5	90		4.5	1.1	80		1.1	UX4	T
A27D	819 236 500	G1	4	6	250	250	36	9.5	100	150	9.5	B7	DDP
A28	264 300 000		15	1.5	90		7.5	1.1	80		1.1	UX4	T
A30	264 300 000		15	27	200		22	1.0	100		1.0	UX4	T
A30B	642 310 000		4	2	250		10	5.5	200		5.5	B5	T
A30D	642 310 000		4	3.5	200		6	2.4	100		2.4	B5	T
A32	264 300 000		15	3	150		1.5	0.9	150		0.9	UX4	T
A36A	645 231 700	G1	4	2	150		6	1.2	150	60	1.2	B7	TH
					200	100	3.5		200	75			
A36B	645 231 700	G1	4	2	100		22	6	100	60	6	B7	TH
					250	250	3.5	0.75	100	150			
A36C	645 231 700	G1	4	3	100		9	3.8	100	60	5	B7	TH
					250	100	3.25	2.5	100	100	3		
A40	264 300 000		15	40.5	200		21	1.5	100		1.5	UX4	T
A40	264 310 000		4		100		2		100		2	5AA	T
A40M	254 130 000	A1	4	1.5	200	100	3	2	200	100	3	UX5	P
A40M	542 310 000	A1	4	1.5	200	100	3	2	200	100	2	B5	P
A41	351 220 000	A1/G1	4		250	100		2	100	100		5AA	P
A48	264 300 000		15	4.5	90		4.5	1.1	80		1.1	UX4	T
A50A	542 310 000	A1	4	2	200	100	3	2.3	100	200	2.3	B5	P
A50A	040 231 500	A1	4	2	200	100	3	2.3	100	100	2.3	B7	P
A50B	061 231 500	G1	4	1.5	250	250	6	3.5	200	200	3.5	B7	P
A50M	041 231 500	A1	4	2	200	125	4.5	2.3	100	100	2.3	B7	P
A50M	542 310 000	A1	4	2	250	125	4.5	2.3	100	100	2.3	B5	P
A50N	542 310 000	A1	4	2	250	100	4.2	2.5	200	100	2.5	B5	P
A50N	041 231 500	A1	4	2	250	100	4.2	2.5	200	100	2.5	B7	P
A50P	060 231 500	G1	4	3	250	250	11.5	2	100	150	2	B7	P
A70B	642 310 000	G2	4	25	250	250	36	2.6	100	150		B5	P
A70B	045 231 600		4	25	250	250	36	2.6	100	150	2.6	B7	P
A70C	045 231 600		4	3	250	250	36	9	100	150	9	B7	P
A70D	045 231 600		4	3	250	250	36	9	100	150	9	B7	P
A70D	642 350 000		4	5.8	250	250	36	9.5	100	150	8	B5	P
A70E	045 231 600		4	14	250	275	72	8.5	100	150	8.5	B7	P
A70P	045 231 600		4	14.5	250	250	70		100	150		B7	P
A80A	123 164 560	G1	4	1.8	90		2	0.6	100	90	1.3	8SC	O
					8.5	250	75	1.6	200		2.5		
A80A	645 231 700	G1	4	1.8	90		2	0.6	100	90	1.3	B7	O
					8.5	250	75	1.5	100	90	1.5		
A104	642 300 000		1.1	10	100		5	0.3	100		0.3	B4	T
A106	642 300 000		1.4	9	100		2	0.4	100		0.4	UX4	T
A106	642 300 000		1.4	9	100		2	0.4	100		0.4	B4	T
A109	642 300 000		1.3	9	150		2	0.4	100		0.4	B4	T
A109	264 300 000		1.4	9	150		2	0.4	100		0.4	UX4	T
A110	264 300 000		1.4	4.5	150		4	0.4	125		0.4	UX4	T
A110	642 300 000		1.4	4.5	150		3	0.4	125		0.4	B4	T
A125	642 300 000		1.2	3	150		0.4	0.4	100		0.4	B4	T
A203	642 300 000		2	30	150		12	1.5	100		1.5	B4	T
A205	642 300 000		2	18	150		7	1.2	100		1.2	B4	T
A206	642 300 000		2	8.5	150		3.8		100		1	B4	T
A209	642 300 000		2	9	150		4	1.0	100		1.0	B4	T
A209	264 300 000		2	9	150		4	1.0	100			UX4	T
A210	364 200 000		2	9	150		3	1.0	100			UX4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
A210	642 300 000		2	9	150		3	0.9	100		0.9	B4	T
A211	642 300 000		2	2	150		2	1.2	100		1.2	B4	T
A214	642 300 000		2	3	150		4.5	1.3	100		3	B4	T
A225	642 300 000		2	3	150		1	1	100		1	B4	T
A225	364 200 000		2	3	150		1	1	100		1	UX4	T
A235	200 300 000	D1	6				30		REC		15mA	UX4	R
A235	042 300 000	A1	2		150		1.5	0.4	150		0.4	B4	T
A239	230 300 000	D1	2.5				60		REC		20mA	UX4	R
A241	642 300 000	G2	2	2	20	20	1.2	1	No Data Available			B4	P
A242	265 300 000	G1	2	3	150	75	1.7	0.6	100	75	0.6	UX4	P
A303	264 300 000		3	27	150		3	0.6	100			UX4	T
A306	264 300 000		3	15	150		1.5	0.4	100			UX4	T
A404	642 300 000		4	10	100		4	0.4	100		0.4	B4	T
A406	364 200 000		4	9	100		2	0.4	100			UX4	T
A406	642 300 000		4	9	100		2	0.4	100			B4	T
A408	642 300 000		4	4	150		4	1.5	100		1.5	B4	T
A409	642 300 000		4	9	150		3.5	0.9	100		1.2	B4	T
A409	264 300 000		4	9	150		3.5	0.9	100		0.9	UX4	T
A410	642 300 000		4	3	150		3.5	0.5	100		0.2	B4	T
A410	264 300 000		4	3	150		3.5	0.5	100		1.2	UX4	T
A410N	642 300 000		4	3	150		3.5	0.5	100		0.5	B4	T
A411	642 300 000		4	3	200		6	2.5	150		2.5	B4	T
A414	364 200 000		4	4.5	150		3	2	100		2	UX4	T
A414	642 300 000		4	4.5	150		3	2	100			B4	T
A415	642 300 000		4	4	150		4	1.5	100		2	B4	T
A416	642 300 000		4	4.5	150		4	2	100		2	B4	T
A420	642 300 000		4	4	150		4	1.5	100		1.5	B4	T
A425	642 300 000		4	2.5	200		0.2	1.2	100		1.2	B4	T
A430	642 300 000		4	3	200		6	2.5	150		2.5	B4	T
A430	042 300 000	A1	4		150		1.5	0.5	150		0.5	B4	T
A430N	642 310 000		4	4.5	250		6.5	3.5	100		3	B5	T
A435	642 300 000		4	1	150		2.1	0.5	150		0.5	B4	T
A440N	642 310 000		4	1.6	200		0.2	2.2	150		2.2	B5	T
A442	542 300 000	A1	4	1	200	100	4	0.7	200	100	0.8	B4	P
A442	254 300 000	A1	4	1	200	100	1	0.4	200	100	0.8	UX4	P
A557	602 310 000	G1	4	8	150		28	2	100		2	B5	T
A577	602 310 000	G1	4	20	250		40	2	100		2	B5	T
A600	642 300 000		6	9	150		4	1.5	100		1.5	UX4	T
A609	642 300 000		6	9	150		4	1.5	100		1.5	B4	T
A609	602 310 000	G1	6	9	150		4	1.5	100			B5	T
A615	642 300 000		6	4.5	150		4	2.4	100		2.4	B4	T
A630	642 300 000		6	1.5	150		0.7	1.5	150		1.5	B4	T
A635	642 300 000		6		150		1.2	1.5	150		1.5	B4	T
A642	542 300 000	A1	6	1	200	100	4	0.7	200	100	0.7	B4	P
A802	642 310 000		4	3	100		2.5	2.5	100		2.5	B5	T
A819	060 231 500	G1	4		250	250	8	7.5	100	100		B7	P
A863	026 500 310	G1	6	3	250	100	2	1.2	100	100	1.2	AO8	P
A901	045 231 600		5		100	100	50	9	No Data Available			B7	P
A1685	026 510 310	G1	6.3	3	150	100	8	3.2	100	100	3.2	AO8	P
△ A1714	412 3** 600		6	2.2	150		10	8.5	100		8	B7G	T
A1820	265 004 130		6		250	250	40	10.5	100	150	9	B3B	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE	
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
△ A1834	471 461 230		6	40	100					No Data Available			AO8	TT
A1860	502 332 406		2.5	7	200	150	35	6	100	100			B9A	T
A2030N	642 310 000		20	3	200		6	2.3	100		2.3		B5	T
A2040N	642 310 000		20	1.6	200		0.2	3	100		1		B5	T
A2087	8*2 380 100		4.4				5		D			B7G	R	
A2118	642 300 000		20	3	200		6	2.3	100		2		B4	T
A2134	412 36* 500		6	7.8	150	150	55	9.5	100	100	9		B7G	P
A2226	*41 23* *51	A1	6.3	12.5	150	150	50	8.5	100	100			B9A	P
A2272	21* *1* *13	D1	6				10		D			B9G	R	
△ A2293	*1* 234 **6		6.3	23	150		100	12	No Data Available			B9A	T	
A2327	010 234 006		6.3	3.5	250		20	6	No Data Available			B9A	T	
A2359	010 234 006		6.5		150		100	12	No Data Available			B9A	T	
A2426	*2* 54* 310	A1	6.3	13.5	150	150	50	8	No Data Available			AO8	P	
A2521	414 464 234		6.3	1	150		15	15	No Data Available			B9A	T	
A2599	411 231 146		6.3	1	150		16	15	No Data Available			B9A	T	
A2637	120 040 300	A1	6.3	7.0	20		1.0	0.6	No Data Available			AO8	T	
A2674	211 403 506		6.3	1.4	200	150	23	30	No Data Available			B9D	P	
A2688	412 314 600		6.3	1	100		12	11.5	No Data Available			B7G	T	
A2738	*26 541 310		6.3	19	250	200	50	10	100	100			AO8	P
A2744	414 464 234		6.3	1	150		16	15	No Data Available			B9A	T	
A2792	*4* 23* 1**	A1	6.3	1.7	400		1	2.5	100		2.5		AO8	T
A2900	741 226 413		6.3	2	250		10.5	6.2	100		6.2		B9A	TT
A2913	413 214 600		6.3		200		15.5	14	No Data Available			B9A	T	
A2975	412 3** 600		6.3	1.0	175		15.5	14	100		16		B7G	T
A3042	*41 23* *51	A1	6.3	12.5	150	150	50	8.5	No Data Available			B9A	P	
A3064	412 361 500		6.3	1.6	250	250	10	7.6	100	100			B7G	P
A4090	642 310 000		4	3.5	250		6	2.4	150		2.4		B5	T
A4110	642 310 000		4	3.5	250		6	2.4	100		2.5		B5	T
AA61	274 164 130		6	5.2	250		6	2.7	100		2.7		B8A	TT
AA91E	182 310 900		6.3				5		D			B7G	DD	
AAB1	023 110 980		4						D			B8C	DDD	
AB1	902 310 000	D1	4				0.8		D			B5	DD	
ABC1	023 198 060	G1	4	7	250		4	2	100		2		8SC	DDT
ABC91	412 389 600		6	2	250		1.2	1.6	100		1.4		B7G	DDT
ABL1	023 198 560	G1	4	6	250	250	36	9	100	150	9.0		8SC	DDP
AC/042	642 300 000		2	38	300		50	5	100		5		B5	T
AC/044	642 300 000		4	38	300		50	5	100		5		B4	T
AC/054	642 300 000		4	22	250		48	3.5	No Data Available			B4	T	
AC/064	642 300 000		4	21	200		20	3	100		3		B4	T
AC084	642 300 000		4	22	300		17	1.1	100		1.1		B4	T
AC084N	642 300 000		4		100		21	2.5	100		2.5		B4	T
AC2	023 100 060	G1	4	5.5	250		6	2.5	100		2.5		8SC	T
AC2DD	869 231 500	G1	4	5	250	250	32		100	150			B7	DDP
AC2/HL	642 310 000		4	1.2	250		2.5	6.5	100		5		B5	T
AC2/Pen	045 231 600		4	5.3	250	250	32	8.5	100	150	8		B7	P
AC2/PenDD	869 231 500	G1	4	5.3	250	250	32	8.5	100	150	8		B7	DDP
AC3Pen	045 231 600		4	3	250	250	36	9	100	150	9		B7	P
AC4/Pen	045 231 600		4(5)	7	250	250	56	11	100	100	10		B7	P
AC5/Pen	045 213 600		4	8.5	250	250	40	9.4	100	150	9.9		B7	P
AC5/PenDD	869 231 500	G1	4(5)	8.5	250	250	40	9.4	100	150	9.4		B7	DDP
AC6/Pen	045 231 000	A1	4(5)	6.9	300	225	63	9.5	100	100	8.5		B7	P
AC101	602 310 000	G1	4	5.5	250		7	2.7	100				B5	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
AC104	642 310 000		4	10	150		8.5	3.5	100		3.5	B5	T
AC701	103 060 020	G1	4	1.6	40		0.5	0.7	No Data Available			B8D	T
ACD	802 310 000		4						D			B5	D
ACDD	892 310 000		4						D			B5	DD
AC/DDT	809 231 600	G1	4	4	200		5	2.3	100		2.3	B7	DDT
AC/DX	642 310 000		4	3	200		5	3.5	100		3.5	B5	T
AC/G	642 310 000		4	7.5	200		8	2.7	100		2.7	B5	T
ACH1	174 652 300	G1	4	{ 2	150	75	5	2	100	60	2	} C7 TH	
ACHL4	642 310 000		4	2	150		2.5		80	75		B5	T
ACHF	642 310 000		4	5	250		5	3.3	100		3.3	B5	T
ACHL	642 310 000		4	3	200		3	2.5	100		2.5	B5	T
			4	2.5	200		7	2	100		3.5	B5	T
AC/HLDD	809 231 600	G1	4	3	200		4.9	2.6	100		2.6	B7	DDT
ACHLDDD	910 231 680	G1	4	3	200		4.9	2.6	100		2.7	B9	DDDT
ACHL4DD	809 231 600	G1	4	3	250		7	2.5	100		2.5	B7	DDT
ACHM4	542 310 000	A1	4		250	100	10	2.5	100	100	2.5	B5	P
AC/HP	041 231 500	A1	4	1.5	200	100	4.2	3.2	100	100	3.2	B7	P
AC/HP	543 210 000	A1	4	1.5	200	100	4.2	3.2	100	100	3.2	B5	P
ACHVP	542 310 000	A1	4	2	200	100	3	2.3	100	100	2.3	B5	P
ACH4	642 310 000		4	4	200		3	3.3	100		3.3	B5	T
AC/L	642 310 000		4	13.5	200		17	4.25	100		4.25	B5	T
ACL4	642 310 000		4	15	250		9	4	100		4	B5	T
AC/LP	642 310 000		4	14	200	18	4.25		100		4.25	B5	T
ACME4	642 310 000	G2	4	16	250	250	26		100	150		B5	P
ACP	642 300 000		4	21	200		19	3	100		3	B4	T
AC/P	642 310 000		4	13.5	200		17	2.7	100		2.7	B5	T
ACP1	642 310 000		4	28	200		24	2.3	100		2.3	B5	T
ACP/4	042 310 000	A1	4	1	100		20	7	100		7	B5	T
ACP/4	642 310 000		4	20	250		20	4	100		4	B5	T
ACPN	642 350 000		4	12	250	200	22		100	150		B5	P
ACPNDH	642 350 000		4	10	250	200	18		100	150		B5	P
AC/PP	642 300 000		4	25	400		50	5	100		5	B4	T
ACPP	045 231 600		4	5.5	250	250	32		100	100		B7	P
AC/PeN	045 231 600		4	15.5	250	250	32	2.7	100	100	2.5	B7	P
AC/PeN	642 310 000	G2	4	12	200	200	24	2.5	100	100	2.5	B5	P
ACPT	642 310 000	G2	4	8	250	200	31		100	150		B5	P
ACPX4	642 310 000		4	18	250		30	4	100		4	B5	T
ACPX4A	642 300 000		4	25	250		50	5	100		5	B4	T
ACQ	045 231 600		4	22	400	250	57	6	100	150	6	B7	P
ACQA	045 231 600		6	23	400	250	6	6	150	150	6	B7	P
AC/S1VM	542 310 000	A1	4	1.4	200	75	5.6	1.1	200	75	1.1	B5	P
AC/S2	542 310 000	A1	4	1	200	60	6	3.4	200	60	3.4	B5	P
AC/S2PeN	041 231 500	A1	4	1.5	250	100	8	4.6	200	100	5.5	B7	P
AC/SG	542 310 000	A1	4	1.5	200	60	4.5	1.9	200	60	1.9	B5	P
AC/SGVM	542 310 000	A1	4	2	200	60	5.8	2.0	200	60	2	B5	P
AC/SH	542 310 000	A1	4	1.5	200	75	7.4	2.5	200	75	3.5	B5	P
AC/SL	041 230 500	A1	4	2	200	100	3.8	2	200	75	2	B5	P
ACSP1	041 231 500	A1	4	3	200	200	4.9	2.7	100	150	2.7	B7	P
ACSP3	061 231 500	G1	4	1.5	250	100	9	7.5	200	100	7.5	B7	P
AC/SP3/RH	061 231 500	G1	4	1.5	250	100	7	7.5	100	100		B7	P
ACTH1	654 231 700	G1	4	{ 2.7	75		6	3	100	60	3.5	} B7 TH	
				3	250	100	3	3.5	520	100	3.8		

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
ACTH1A	216 740 530	G1	4	{ 3 3	75 250	100	6 3	3 3.5	100 100	60 100	3.5 3.5	} MO8	TH
ACTP	571 231 640	G1	4	{ 3 5	150 250	200	1.5 5.5	1.4 1.6	100 250	60 200	1.4 3.4		
ACVG	542 310 000	A1	4		200	75	5	3	200	75	3	B5	P
ACVH	542 310 000	A1	4	1.5	200	75	9.3	2.7	200	75	3.3	B5	P
AC/VP	041 231 500	A1	4	1.5	200	100	5.7	2.5	200	100	3	B7	P
AC/VP	542 310 000	A1	4	1.5	200	100	5.7	2.5	200	100	3	B5	P
ACVPB	061 231 500	G1	4	1.5	250	150	12	4	250	200	4	B7	P
AC/VP1	041 231 500	A1	4	2.8	250	200	7.4	2	100	150	2	B7	P
AC/VP2	061 231 500	G1	4	2.8	250	100	7.4	2	100	150	2	B7	P
ACVP4	041 231 500	A1	4		250	100	6	3	100	100	3	B7	P
ACVS	542 310 000	A1	4	1.5	200	75	4.4	2	200	75	3	B5	P
ACVS4	542 310 000	A1	4	2	250	50	6	2	200	60	2	B5	P
AC/Y	045 231 600		4	10	250	250	32	3.5	100	100	3.5	B7	P
AC/Y	642 310 000	G2	4	10	250	250	32	3.5	100	100	3.5	B5	P
AC/YC	045 231 600		4	10	250	250	68	7.5	100	150	7.5	B7	P
AC/YY	045 231 600		4	10	250	250	68	7.5	100	150	7.5	B7	P
AC/Z	642 310 000	G2	4	5.5	250	250	32	7.5	100	150	8	B5	P
AC/Z	045 231 600		4	5.5	250	250	32	7.5	100	150	8	B7	P
AC/ZDD	869 231 500	G1	4	5.5	250	250	32	8	100	150	8	B7	DDP
AD	281 300 000		6.3				30		REC		15mA	UX4	R
AD1	023 004 060		4	45	250		60	6	100		6	8SC	T
AD1/350	023 004 060		4	66	400		42		100			8SC	T
AD1N	023 004 060		4		300		60		100			F8	T
AD101	642 310 000		4	26.5	250		40	4.6	100			B5	T
ADG	642 310 000		20	10	200		10	3.5	100		3.5	B5	T
ADHF	642 310 000		20	3	200		5	3.5	100		3.5	B5	T
ADHP	041 231 500	A1	20		200	100	5	2.8	200	100	2.8	B7	P
ADL	652 310 000		20	13	200		20	3	100		3	B5	T
ADPN	642 350 000		20	15	250	200	22		100	150		B5	P
ADVHP	041 231 500	A1	20		200	100	5.5	2.5	200	100	2.5	B7	P
AE	265 413 000		13	13.5	100	100	8.5	1.6	100	90	1.6	UX6	P
AF	281 300 000		2.5				120		REC		20mA	UX4	R
AF2	542 310 000	A1	4	2	200	100	4.2	2.5	200	100	3.2	B5	P
AF3	023 110 560	G1	4	3	250	100	8	1.8	250	100	1.8	8SC	P
AF7	023 110 560	G1	4	2	250	100	3	2.1	250	100	2.1	8SC	P
AF8	026 546 310		6	2	200	50	3.5		100	60		AO8	O
AG	289 300 000		5				120		REC		20mA	UX4	RF
AG495	642 310 000		4	4	200		4	2.5	100		2.5	B5	T
AG4100	642 300 000		4	3	150		5	2	125		2	B4	T
AH1	023 145 560	G1	4	2	250	75	3	1.8	200	75	1.8	8SC	P
AH100	023 145 560	G1	4	2.5	200	100	5.5	1.5	100	100	1.5	8SC	P
AH4105	542 310 000	A1	4	2	200	125	4.5	2.3	100	100	2.3	B5	P
AK2	123 164 570	G1	4	{ 2 2	100 250	75 75	4.2 4.5	0.9 2.2	80 100	75 75	0.9 2	} 8SC	O
AL1	023 004 560		4	15	250	250	36	2.8	100	150	2.8		
AL2	023 100 560	G1	4	25	250	250	36	2.6	100	150	2.6	8SC	P
AL2/375	023 100 560	G1	4	25	250	250	36	2.6	100	150	2.6	8SC	P
AL3	245 231 600		4	3	250	250	36	9	100	150	9	B7	P
AL3	023 104 560		4	6.5	250	250	36	9.5	100	150	8	8SC	P
AL4	145 231 600		4	3	250	250	36		100	150	9.5	B7	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
AL4	023 104 560		4	6.5	250	250	36	9.5	100	150	8	8SC	P
AL4/375	145 231 600		4	6	250	250	34	9.5	100	150	8	B7	P
AL4/375	023 104 560		4	6	250	250	34	9.5	100	150	8	8SC	P
AL5	145 231 600		4	14	250	250	72	8.5	100	150	7	B7	P
AL5/375	023 104 560		4	14	250	275	72	8.5	100	150	6	8SC	P
AL60	041 231 500	A1	4(5)	7	250	250	72	14.5	100	150	8.5	B7	P
AL60	502 331 460		2.4	7	200	150	35	6	100	100		B8D	P
AL495	642 310 000		4	12	250		30	4	100		4	B5	T
AL860	502 331 406		4.8	7	200	150	35	6	100	100		B9A	P
AMOE	045 231 600		4	14	250	250	72	9	100	150	8	B7	P
AN4092	642 310 000	D1	4	3.5	200		6	2	100		2	B5	DT
APP4A	045 231 600		4	16.5	250	250	36	3.5	100	150	3.5	B7	P
APP4AS	023 100 560	G1	4	16.5	250	250	36	3.5	100	150	3.5	8SC	P
APP4B	045 231 600		4	5	250	250	32	10	100	150	10	B7	P
APP4BS	023 104 560		4	5	250	250	32	10	100	150	10	8SC	P
AP495	642 310 000		4	1.5	200		2.5	5	150		5	B5	T
APP4C	145 231 600		4(5)	5	250	250	36	10	100	150	10	B7	P
APP4D	145 231 600		4	16	250	250	72	7	100	150	7	B7	P
APP4E	145 231 600		4(5)	13.5	350	275	72	8.5	100	150	8.5	B7	P
APP4E	023 104 560		4(5)	13.5	350	275	72	8.5	100	150	8.5	8SC	P
APP4G	061 231 500	G1	4(5)	6	250	250	36	10	100	150	10	B7	P
APP4G	005 231 600	G1	4(5)	6	250	250	36	10	100	150	10	B7	P
APP495	642 350 000		4	23	300	200	25	2	100	100	2	B5	P
APP4100	642 310 000	G2	4	15	250	250	24	2.5	100	150	2.5	B5	P
APP4120	642 310 000	G2	4	15	350	200	22	3.5	100	100	3.5	B5	P
APV4	892 300 000		4				60		REC		20mA	B4	RR
APV4100	892 300 000		4				60		REC		20mA	B4	RR
APV4200	892 300 000		4				60		REC		20mA	B4	RR
AR495	642 310 000		4	1	100			5	100		5	B5	T
AR4100	642 310 000		4	3	200		3	2	150		2	B5	T
AR4101	642 310 000		4	1	100			3	100		3	B5	T
AS494	542 310 000	A1	4		200	100	15	1.5	100	100	1.5	B5	P
AS495	542 310 000	A1	4	2	200	100	1	3.4	200	100	3.4	B5	P
AS4100	542 310 000	A1	4	6	200	100	4	1.4	100	90	1.4	B5	P
AS4120	542 310 000	A1	4	2	200	100	3	3	150	100	3	B5	P
AS4125	542 310 000	A1	4	2	250	100	3	3	200	100	3	B4	P
AV11	200 300 000	D1	2.5						REC			UX4	R
AX	264 300 000		5	9	150		3	0.8	100		0.8	UX4	T
AX1	892 300 000		4				60		REC		20mA	B4	RR
AX50	892 300 000		4				120		REC		30mA	B4	RR
AZ1	023 080 090		4				30		REC		20mA	8SC	RR
AZ2	023 080 090		4				60		REC		20mA	8SC	RR
AZ3	023 180 090		4				60		REC		20mA	8SC	RR
AZ4	023 080 090		4(5)				60		REC		20mA	8SC	RR
AZ11	902 300 080		4				60		REC		20mA	F8	RR
AZ12	902 300 080		4(5)				60		REC		20mA	F8	RR
AZ21	288 039 920		2				30		REC		17mA	AO8	RR
AZ31	020 809 030		4				30		REC		20mA	AO8	RR
AZ32	020 809 030		4				60		REC		20mA	AO8	RR
AZ33	028 090 300		4				60		REC		20mA	AO8	RR
AZ41	*8* **9 230		4				30		REC		10mA	B8A	RR

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
AZ50	023 080 090		4(5)				120			REC		30mA	8SC	RR
AZ50	892 300 000		4(5)				120			REC		30mA	B4	RR
B2	642 300 000		2	2	150		2	1.2		100		1.2	B4	T
B7	642 300 000		6		150		8	0.67		100		0.67	B4	T
B11	642 300 000		6		200		20	1.4		100		1.4	B4	T
B21	447 230 600		2	3	150		5.0	1.5		100		2.1	B7	TT
B22	446 230 700		2		150		5			150			B7	TT
B23	642 300 000		2		150		4	0.75		100		0.75	B4	T
B24	446 230 700		2	0	150		7			100			B7	TT
B30	461 237 400		13	0	200		30			100			B7	TT
B36	471 461 230		13	8	250		9	2.6		100		2.6	AO8	TT
B63	264 147 300		6	5	250		6	3.1		200		3.1	UX7	TT
B65	471 461 230		6	8	250		9	2.6		100		2.6	AO8	TT
B105	264 300 000		1.4	18	150		8	1.0		100			UX4	T
B105	642 300 000		1.4	18	150		8	1.0		100			B4	T
B109	741 236 410		26	1.5	200		10	6.2		100		6	B9A	TT
B152	741 226 413		6	2	250		10.0	5.5		200		5	B9A	TT
B203	642 300 000		2	26	150		11	1.5		100		1.5	B4	T
B204	264 300 000		2	22.5	125		8	0.9		100		0.9	UX4	T
B205	642 300 000		2	18	150		7	1.2		100		1.2	B4	T
B205	264 300 000		2	18	150		7	1.2		100		1.2	UX4	T
B217	642 300 000		4.5	4.5	150		3	1.3		100		1.3	B4	T
B217	264 300 000		2	4.5	150		3	1.3		100		3	UX4	T
B228	264 300 000		2	2	150		2	1.2		100		1.2	B4	T
B230	446 230 700		2	1	150		5.5			150			B7	TT
B240	264 473 000		2	0	150		15			No Data Available			UX6	TT
B242	542 300 000	A1	2	0	200	75	4.5	1.1		100	75	1.1	B4	P
B242	254 300 000	A1	2	0	200	75	4.5	1.1		100	75	1.1	UX4	P
B255	542 300 000	A1	2	1	150	100	1.8	1.2		150	100	1.2	B4	P
B255	254 300 000	A1	2	1	150	100	1.8	1.2		150	100	1.2	UX4	P
B262	542 300 000	A1	2	1	150	100	1.8	1.3		150	100	1.3	B4	P
B262	265 300 000	G1	2	1	150	100	1.8	1.3		150	100	1.3	UX4	P
B309	741 226 413		6	2	250		10	5.5		100	100	5	B9A	TT
B319	147 234 116		7.5	1.5	90		12	6		100		6	B9A	TT
B329	741 226 413		6	8.5	250		10.5	2.2		100		2.2	B9A	TT
B339	741 226 413		6	2	250		1.2	1.6		150		1.6	B9A	T
B342	265 300 000	G1	2	2.5	150	75	4	1.3		150	75	1.3	UX4	P
B349	147 234 116		7	1.2	90		15	9		80		9	B9A	TT
B403	642 300 000		4	30	150		15	1.5		100		1.5	B4	T
B403	264 300 000		4	30	150		15	1.5		100		1.2	UX4	T
B405	642 300 000		4	18	150		11	1.6		100		1.6	B4	T
B405	264 300 000		4	18	150		11	1.6		100		1.4	UX4	T
B406	642 300 000		4	15	150		8	1.4		100		1.4	B4	T
B406	264 300 000		4	15	150		8	1.3		100		1.3	UX4	T
B409	642 300 000		4	16	250		12	2		100		2	B4	T
B409	264 300 000		4	16	250		12	2		100		2	UX4	T
B415	264 300 000		4	4.5	150		3	2		100		2	UX4	T
B424	642 300 000		4	2.3	200		6	2.5		150		2.5	B4	T
B424	264 300 000		4	2.3	200		6	2.5		150		2.5	UX4	T
B424S	642 300 000		4	3	200		3	2.5		100		2.5	B4	T
B425	642 300 000		4	4.5	150		3	2		100		2	B4	T
B425	264 300 000		4	4.5	150		3	2		100		2	UX4	T

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
B435N	642 310 000	D1	4	3.5	200		6	2	100		2	B5	DT
B438	642 300 000		4	2.5	200		0.2	2	150		2	B4	T
B438	264 300 000		4	2.5	200		0.2	2	150		2	UX4	T
B438S	642 300 000		4	1.5	200		2	2	150		2	B4	T
B442	542 300 000	A1	4	1	200	100	4.5	0.9	200	100	0.9	B4	P
B442M	542 300 000	A1	4	1	200	100	4.5	0.9	100	100	0.9	B4	P
B442M	254 300 000	A1	4	1	200	100	4.5	0.9	100	100	0.9	UX4	P
B442S	542 300 000	A1	4	1	200	100	4.5	0.91	100	100	0.9	B4	P
B443	642 350 000		7	17	200	150	12	1.2	100	150	1.2	B5	P
B443	264 300 000	G2	4	17	200	150	12	1.2	100	150	1.2	UX4	P
B443S	642 350 000		4	12	250	75	12	1.6	100	60	1.6	B5	P
B443S	642 300 000	G2	4	12	250	75	12	1.6	100	60	1.6	B4	P
B443S	264 300 000	G2	4	12	250	75	12	1.6	100	60	1.6	UX4	P
B491	642 310 000		4	1.5	200		4	4	150		4	B4	T
B543	642 350 000		5	15	200	150	13	1.3	150	100	1.3	B5	P
B543	264 300 000	G2	5	15	200	150	12	1.3	150	100	1.4	UX4	P
B543	642 300 000	G2	5	15	200	150	12	1.3	150	100	1.3	B4	P
B543S	642 350 000		5	15	200	150	12	1.3	150	100	1.3	B5	P
B605	642 300 000		6	18	150		9	1.8	100		1.8	B4	T
B605	264 300 000		6	18	150		9	1.8	100	100	1.8	UX4	T
B609	642 300 000		6	18	250		12	1.8	100		1.8	B4	T
B719	741 236 410		6	2	250		10	6	250		6	B9A	TT
B729	741 236 410		6.3	7.7	200		10	3.4	100		3.5	B9A	TT
B2006	642 310 000		20	18	200		15	1.6	100		1.6	B5	T
B2038	642 310 000		20	3	200		6	2.3	100		2.3	B5	T
B2041	602 300 000	G1	20	1	100		2.5	0.1	100		0.1	B4	T
B2042	542 310 000	A1	20	2	200	60	4	1	100	60	1	B5	P
B2043	642 310 000	G2	20	18	200	200	20	1.7	100	100	1.7	B5	P
B2044	218 004 530		20	4	200	60	0.7	2.8	100	60		A08	P
B2044S	642 310 000	D1	20	3	200		6	1.8	100		1.8	B5	DT
B2045	542 310 000	A1	20	2	200	60	4	1	150	60	1	B5	P
B2046	542 310 000	A1	20	2	200	100	3	2.2	150	100	2.2	B5	P
B2047	542 310 000	A1	20	2	200	100	4	2	150	100	2	B5	P
B2052T	542 310 000	A1	20	2	200	100	3	2	150	100	2	B5	P
B2055	542 310 000	A1	20	1.5	200	100	3	2	100	100	2	B5	P
B2099	642 310 000		20	1.6	200		0.2	3	150		3	B5	T
BA2	446 230 700		2		150		1.5		150			B7	TT
BB1	902 310 000	D1	16						D			B5	DD
BB220A	446 230 700		2	3	150		4		100			B7	TT
BB240	446 230 700		2	6	150		2.2		100			B7	TT
BBC12	682 390 000	G1	2	4.5	150		2.5	1.5	100		1.5	B5	DDT
BCH1	465 231 700	G1	24	2	100		5	1.2	100	60	1.2	B7	TP
					200	50	1.3	0.7	100	60			
BF1	642 300 000		4	15	150		8	1.3	100		1.3	B4	T
BF61	261 054 130		6	7	250	250	36	10	100	150	8	B8A	P
BF62	261 054 130		6	10	250	250	26	3.2	100	150	3.2	B9A	P
BF451	261 054 130		45	9	200	175	54.5	9.5	100	100	7	B8A	P
BHP61	023 010 560	G1	2	0.5	150	125	2.5	0.7	125	125	0.7	8SC	P
BL2	652 310 000	G1	30	20	200	100	40	3	100	90	3	B5	P
BL63	027 146 310	G1	6		250		14	4.2	100		4.2	A08	TT
BLP61	023 004 560		2		150	150	7	2.7	100	100		8SC	P
BM968	200 300 000	D1	2.5				60		REC		35mA	UX4	R
BPMO4	412 365 400		6.3	12.5	250	250	45	4.1	100	150	4	B7G	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
BW3	642 350 000		2	4.5	150	125	6	2.2	100	100	2.2	B5	P
BW602	642 300 000		2	12	150		12	3.4	100		3.4	B4	T
BW1304	642 300 000		2	6	150		6	3.2	100		3.2	B4	T
BX2	446 230 700		2		200		2.5		100			B7	TT
BX604	642 300 000		2	12	150		8	1.5	100		1.5	B4	T
C3A	261 504 130		6.3		250	150	16	6.5	100	100		B8G	P
C3G	261 504 130		6.3	1.8	200	150	13	14	No Data Available			AO8	P
C3G	216 514 130		6.3	1.8	250	150	13	13.5	100	100		B8B	P
C3G	802 362 450		6.3	1.8	200	150	13	14	No Data Available			F8	DP
C3M	261 504 130		20	4.5	250	150	15.0	6.0	100	100	5.2	B8B	P
C9	642 300 000		4	9	150		3.5	0.9	100		0.9	B4	T
C10B	023 100 080		20				75		REC		23mA	8SC	R
C10B	802 310 000		20				60		REC		23mA	B5	R
C20C	892 310 000		13						D			B5	DD
C23B	809 231 600	G1	13	5	200		4	2	100		2	B7	DDT
C25	642 300 000		4	2.5	200		2.3	1.2	150		1.2	B4	T
C30	261 504 130		6.3	4.5	250	150	15	6	100	100		B8B	P
C30B	000 231 600	G1	13	4	200		4	3.2	150		3.2	B7	T
C36A	645 231 740		21	1.5	100		4	2	100	60	1.2	B9	TH
					250	75	3		100	75			
C36B	645 231 700	G1	29	2.5	100		4	2	100	60	1.2	B7	TH
					250	150	3.4		200	75	3		
C36C	645 231 740		29	2.5	100		4	2	100	60	1.2	B9	TH
					250	75	3	3.5	100	75			
C50B	061 231 500	G1	12	2.2	200	200	2.5	2.8	100	150	2.8	B7	P
C50N	061 231 500	G1	13	2	200	200	9.5	2	100	150	2	B7	P
C70D	023 110 560	G1	33	8.5	200	200	45	8	100	150	7	8SC	P
C70D	045 231 600		35	8.5	200	200	45	8	100	150	7	B7	P
C80B	123 154 560	G1	13	1.5	200	90	1.9		150	75		8SC	O
C109	642 300 000		1	9	150		3.5	0.5	100		0.5	B4	T
C125	642 300 000		1	3	150		0.7	0.8	125		0.8	B4	T
C135	042 300 000	A1	1.4		150		1.5	1	100		1	B4	T
C142	542 300 000	A1	1	1.5	150	75	1.7	0.8	100	75	0.8	B4	P
C144	245 134 200	A1/A2	6.3	15	300	200	40	9	No Data Available			B7A	PP
C180	245 134 200	A1/A2	6.3	20	300	250	55	3.5	No Data Available			B7A	PP
C243	642 350 000		2	15	150	150	17	1.5	100	100	1.5	B5	P
C243N	642 350 000		2	4.5	150	125	6	3.2	150	100	2.2	B5	P
C243N	264 530 000		2	4.5	150	125	6	2.2	150	100	2.2	UX5	P
C405	642 300 000		4	32	250		20	1.9	100		1.9	B4	T
C405	264 300 000		4	32	250		20	1.9	100		1.9	UX4	T
C408	642 300 000		4	7	150		14	2.9	100		2.9	B4	T
C443	642 350 000		4	25	300	200	20	1.7	100	150	1.7	B5	P
C443N	642 350 000		4	42	300	200	20	1.5	100	150	1.5	B5	P
C443N/S	642 350 000		4	20	300	150	20	1.5	100	100	1.5	B5	P
C453	642 350 000		4	25	300	200	20	1.7	100	150	1.7	B5	P
C508	264 300 000		5	9	150		6.2	1.7	100		1.7	UX4	T
C509A	642 300 000		5	10	150		10	1	100		1	B4	T
C543	642 350 000		4	1	100	150		2	100	150	2	B5	P
C603	642 300 000		6	40	200		20	1.7	100		1.7	B4	T
C606	642 300 000		6	27	250		20	3.3	100		3.5	B4	T
C643	642 350 000		6	21	300	200	20	1.5	100	150	1.5	B5	P
C1134	245 135 200	A1/A2	6	17	400	200	20	2.5	No Data Available			B7A	PP

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
CB215	446 230 700		2	1	150		15	1.7	100		1.7	B7	TT
CB215S	023 064 470		2	1	150		12	1.7	100		1.7	8SC	TT
CB220	446 230 700		2	3	150		15		100			B7	TT
CBC1	023 198 060	G1	13	7	250		4	2	100		2	8SC	DDT
CBL1	023 189 560	G1	44	8.5	200	200	45	8	100	150	7	8SC	DDP
CBL6	023 198 560	G1	44	8	100	100	45	6	100	75	6	8SC	DDP
CBL31	026 985 310	G1	44	8.5	200	200	45	8	100	150	7	AO8	DDP
CC1	023 100 060	G1	13	3.7	200		2.6	2	150		2	8SC	T
CC2	023 100 060	G1	13	5.5	250		6	2.5	200		2.5	8SC	T
CC81E	641 227 413		6.3	0.6	250		10	5.5	100		5.5	B9A	TT
CC82E	641 227 413		6.3	8.5	250		10.5	2.2	100		2.5	B9A	TT
CC86E	641 227 413		6.3	9.3	250		14.5	5.2	100		6	B9A	TT
CCa	741 226 413		6.3		100		15	12	No Data Available			B9A	TT
CCH1	023 156 470	G1	20	10 2	200		2.5	2.3	100	60	2.3	8SC	TH
					200	50	2		100	60			
CCH2	023 164 570	G1	29	10 2	200	75	2.5 2	2.3	100 100	60 75	2.3	8SC	TH
CCH35	027 546 310	G1	7.5	2 2	100 250	100	5.4 5	2.2 2.4	100 200	60 100	2.8 4	AO8	TH
CE230	320 200 000	D1	2.5				30		REC		15mA	UX4	R
CF1	023 110 560	G1	13	2	200	100	3	2.3	100	100	2.3	8SC	P
CF2	023 110 560	G1	13	2	200	100	4.5	2.2	100	100	2.2	8SC	P
CF3	023 110 560	G1	13	2	100	75	7.5	2.1	100	75	2.1	8SC	P
CF7	023 110 560	G1	13	2	100	100	3	2.1	100	100	2.1	8SC	P
CF50	123 100 560	G1	30	2	200	100	1.5	3.3	100	100	3.3	8SC	P
CF51	123 100 560	G1	30	2	250	100	1.7	3.3	100	100		8SC	P
CF61	276 454 130		6	2 2	100 250	100	5 3	2.2 2	100 100	60 100	2.8 2.4	B8A	TH
CF141	276 454 130		14	2 2	100 200	90	6.4 2.7	2.2 1.5	100 100	60 75	2.8 1.5	B8A	TH
CH1	023 145 560	G1	13	2	250	75	3	1.8	200	75	1.8	8SC	P
CK1	023 154 560	G1	13	1.5	200	90	8	3	200	75	1.6	8SC	P
CK3	023 154 560	G1	19	15	200	100	2.5		No Data Available			8SC	O
CK108	265 113 000	G1	6.3	3	250	100	2.3	1.2	100	100		UX6	P
CK507AX	653 420 000		1.2	2	40	40	0.9	0.6	No Data Available			B5A	P
CK509AX	634 200 000		0.62		40		0.1	0.1	No Data Available			B5A	T
CK515BX	634 200 000		0.62		40		0.1	0.1	No Data Available			B5A	T
CK518AX	653 420 000		1.2	2	40		0.8	0.5	No Data Available			B5A	T
CK520AX	653 420 000		0.62	2.5	40	40	0.2	0.1	No Data Available			B5A	P
CK521AX	653 420 000		1.2	3	20	20	0.6	0.4	No Data Available			B5A	P
CK523AX	653 420 000		1.2	1.2	20	20	0.3	0.3	No Data Available			B5A	P
CK524AX	653 420 000		1.2	1.7	20	20	0.4	0.3	No Data Available			B5A	P
CK525AX	653 420 000		1.2	1.2	20	20	0.2	0.3	No Data Available			B5A	P
CK526AX	653 420 000		1.2	1.5	20	20	0.5	0.4	No Data Available			B5A	P
CK527AX	653 420 000		1.2		20	20	0.1	0.2	No Data Available			B5A	P
CK528AX	653 420 000		1.2	1.2	40	40	0.7	0.6	No Data Available			B5A	P
CK529AX	653 420 000		1.2	1.2	20	20	0.3	0.3	No Data Available			B5A	P
CK531DX	653 420 000		1.2	1.5	20	20	0.3	0.2	No Data Available			B5A	P
CK532DX	653 420 000		1.2		20	20	0.4	0.4	No Data Available			B5A	P
CK533AX	653 420 000		1.2		20	20	0.4	0.4	No Data Available			B5A	P
CK535AX	653 420 000		1.2	1.2	20	20	0.3	0.3	No Data Available			B5A	P
CK536AX	653 420 000		1.2		20	20	0.3	0.4	No Data Available			B5A	P
CK537AX	653 420 000		1.2	1.5	20	20	0.5	0.4	No Data Available			B5A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
CK539AX	653 420 000		1.2	1.4	20	20	0.2	0.3	No Data Available			B5A	P
CK541DX	653 420 000		1.2		30	30	0.2	0.4	No Data Available			B5A	P
CK542DX	653 420 000		1.2	2	20	20	0.4	0.3	No Data Available			B5A	P
CK542DXS	653 420 000		1.2	2	20	20	0.4	0.3	No Data Available			B5A	P
CK544DX	653 420 000		1.2		30	30	0.1	0.3	No Data Available			B5A	P
CK545DX	653 420 000		0.6	0.6	20	20			No Data Available			B5A	P
CK546	653 420 000		1.2		20	20	0.4	0.4	No Data Available			B5A	P
CK547DX	653 420 000		1.2		30	30	0.2	0.4	No Data Available			B5A	P
CK1002	008 090 010		6				30	3k $\Omega$	No Data Available			AO8	CCR
CK1005	008 092 030		6.3				30		REC	15mA		AO8	RR
CK1006	289 300 000		2				60		REC	20mA		UX4	RR
CK1007	008 092 030		1				60		REC	20mA		AO8	RR
CK1012	289 300 000		2				120		REC	30mA		UX4	RR
CK1024	008 090 010		6				60	3k $\Omega$	No Data Available			AO8	CCR
CK1028	202 322 300	D1	6				60		REC	20mA		B7G	R
CK1091	200 800 300		1.4						D			B7G	D
CK1216	672 344 100		6.3		100		5	3.4	100		3.4	B7G	TT
CK5608	264 147 300		2.5	6	200		6	2.4	100		2.4	UX7	TT
CK5639	412 163 510		6.3		150	100	21	9	150	100		B8D	P
CK5654	412 365 100		6.3	2	150	125	7.5	5	100	100		B7G	P
CK5656	544 231 671		6.3	2	150	125	15	5.8	100	100		B9A	PP
CK5670	214 607 413		6.3		150		8.5	5.5	100			B9A	TT
CK5672	653 420 000		1.2	6.5	60	60	3.2	0.6	No Data Available			B5A	P
CK5676	624 300 000		1.2	5	150		4	1.6	100		1.6	B5A	T
CK5677	624 300 000		1.2	5.5	150		1.9	0.8	100		1.9	B5A	T
CK5678	652 430 000		1.2		60	60	1.8	1.1	No Data Available			B5A	P
CK5687	641 221 437		6.3	2	150		36	11	No Data Available			B9A	TT
CK5692	461 471 230		6.3	9	250		6.5	2.2	100			AO8	TT
CK5693	126 447 310		6.3	6	200	7		3.2	100			B8B	TT
CK5694	126 447 310		6.3	6	300		7	3.2	100			AO8	TT
CK5697	632 400 000		0.6	3	12		0.2	0.1	No Data Available			B5A	T
CK5702	653 420 000		6.3		150	125	7.5	5	100	100		B7G	P
CK5703	623 410 000		6.3		150		9	5	100		5	B5A	T
CK5793WA	623 410 000		6.3		150		9	5	100		5	B5A	T
CK5703WB	623 410 000		6.3		150		9	5	100		5	B5A	T
CK5704	623 100 000		6.3				5		D			B5A	D
CK5074WA	623 100 000		6.3		150		5		D			B5A	D
CK5725	412 365 100		6.3	2	150	125	5.2	3.2	100	100		B7G	P
CK5726	182 310 900		6.3				5		D			B7G	DD
CK5744	623 410 000		6.3		250		4	4	100			B5A	T
CK5744WA	623 410 000		6.3		250		4	4	100			B5A	T
CK5744WB	623 410 000		6.3		250		4	4	100			B5A	T
CK5749	412 365 100		6.3		250	100	11	4.4	100	100	4.4	B7G	P
CK5751	641 227 413		6.3	3	250		1.0	1.2	100		1.2	B9A	TT
CK5755	614 224 173		6.3	0.9	100		0.1	0.5	100		0.5	B9A	TT
CK5784	652 311 400		6.3	2	150	125	5.2	3.2	100	100		B7F	P
CK5784WA	652 311 400		6.3	2	150	125	5.2	3.2	100	100		B7F	P
CK5784WB	652 311 400		6.3	2	150	125	5.2	3.2	100	100		B7F	P
CK5785	823 000 000		1.2						D				D
CK5814	741 226 413		6	8.5	250		10.5	2.2	100		2.2	B9A	TT
CK5829	812 139 100		6.3				5		D			B7F	DD
CK5829WA	812 139 100		6.3				5		D			B7F	DD

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
CK5851	206 035 240		1.2	7.5	150	125	5.5	1.6	100	100		B8D	P
CK5854	652 430 000		1.2	2	40	40	0.8	0.5	No Data Available			B5A	P
CK5873	264 114 730		6.3	3	150		9	2.9	100			B8D	TT
CK5875	652 430 000		1.2		90	90	3.5	2.5	80	75		B5A	P
CK5881	026 540 310		6.3	14	150	250	75	6.1	100	100		A08	P
CK5910	265 024 300		1.4		90	90	1.6	0.9	100		0.9	B7G	P
CK5965	641 227 413		6.3		150		8.2	6.5	100			B9A	TT
CK5967	624 334 270		1.2		40		3	0.1	No Data Available			B8D	TT
CK5968	624 334 270		1.2		40		0.7	1.3	No Data Available			B8D	TT
CK5969	245 675 430		1.2	3	150	40	6	1.7	No Data Available			B8D	PP
CK5970	245 675 430		1.2		40	40	3	1.8	No Data Available			B8D	PP
CK5971	642 430 000		1.2		60		3.5	2.1	No Data Available			B5A	T
CK5972	652 430 000		1.2		60	60	2.5	1.3	No Data Available			B5A	P
CK5975	614 230 000		6.3		100		10	5.1	100		5	B5A	T
CK5995	8*2 310 000		6.3				30		REC 15mA			B5A	R
CK6005	412 365 400		6.3	12.5	250	250	45	4.1	100	150	4	B7G	P
CK6021	642 113 470		6.3		100		6.5	5.4	100		5.4	B8D	TT
CK6029	624 300 000		1.2	4	90		11	2	80		3	B5A	T
CK6050	624 300 000		1.2	5	150		4	1.6	100		2	B5A	T
CK6051	652 430 000		1.2	4	40	40	3	1.2	No Data Available			B5A	P
CK6088	653 420 000		1.2	1.2	40	40	0.7	0.6	No Data Available			B5A	P
CK6092	653 420 000		1.2	4.5	40	40	1.4	0.6	No Data Available			B5A	P
CK6100	602 364 100		6.3	8.5	250		10.5	2.2	100		2.2	B7G	T
CK6101	672 344 100		6.3		100		9	6	100		6	B7G	TT
CK6110	812 093 100		6.3						D			B8D	DD
CK6111	642 113 470		6.3		100		8.5	5	100		5	B8D	TT
CK6112	642 113 470		6.3		100		0.8	1.8	100		2	B8D	TT
CK6135	602 364 100		6.3	8.5	250		10.5	2.2	100		2.2	B7G	T
CK6147	206 035 240		1.2	7.5	150	125	5.5	1.6	100	100		B8D	P
CK6152	614 230 000		6.3		100		10	5.1	100		5	B5A	T
CK6186	412 365 100		6.3		250	150	7	5	100	100		B7G	P
CK6201	641 227 413		6.3		250		10	5.5	100			B9A	TT
CK6245	652 311 400		6.3		20	30	2.5	3.3	No Data Available			B7G	P
CK6247	442 613 060		6.3		250			2.6	100			B8D	T
CK6247WA	442 613 060		6.3		250			2.6	100			B8D	T
CK6286	624 300 000		1.2	2	60		6	2.1	No Data Available			B5A	T
CK6397	206 035 240		1.2	7.5	150	125	7.2	2	100	100		B8D	P
CK6414	741 226 413		6.3		200		8	5.5	100		6	B9A	TT
CK6418	652 430 000		1.2	1.2	20	20	0.2	0.3	No Data Available			B5A	P
CK6419	652 430 000		0.6	0.6	12	12			No Data Available			B5A	P
CK6485	412 365 100		6.3		300	150	10	9	100	100		B7G	P
CK6519	653 420 000		1.2		20	20	0.4	0.4	No Data Available			B5A	P
CK6526	652 430 000		1.2	6	100	100	6.5	1.9	100	100	2	B5A	P
CK6533	644 612 360		6.3		150		0.9	1.7	100			B8D	T
CK6533WA	644 612 360		6.3		150		0.9	1.7	100			B8D	T
CK6540	652 311 400		6.3		150		7.5	5	100			B7G	P
CK6611	642 113 470		6.3		100		8.5	5	100		5	B8D	TT
CK6612	642 113 470		6.3		100		0.8	1.8	100		0.8	B8D	TT
CK6872	652 311 400		6.3		150	125	7.7	4.1	100	100		B7G	P
CK6883	125 141 310	A1	12.6	33	300	200	70	7	No Data Available			A08	P
CK7994	346 441 430		6.3	1	100		13	18	No Data Available			B8D	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
CK7995	214 311 650		6.3	1.6	150	150	8	13	No Data Available			B8D	P
CL1	023 100 560	G1	13	14	200	200	25	2.5	100	150	2.5	8SC	P
CL2	023 100 560	G1	24	15	100	100	50	3.8	200	75	3.8	8SC	P
CL4	023 100 560	G1	33	8.5	200	200	45	8	100	150	7	8SC	P
CL6	023 100 560	G1	35	9.5	200	100	45	8	100	90	7	8SC	P
CL33	026 540 310		33	8.5	200	200	45	8	100	100	7	AO8	P
CO241	026 500 300	G1	2	1	150	75	3.5	1.4	125	80	1.4	AO8	P
CO243	026 447 300		2		150		4	1.8	100		1.8	AO8	TT
CO244	026 540 300		2	2.5	150	125	4.1	1.8	125	125	1.8	AO8	P
CO257	021 450 300	A	2	3	100	100	6	2.5	100	100	3	AO8	P
CO258	026 540 300		1.8	6	150	125	10	2	100	100		AO8	P
CY1	023 100 080		20				60		REC		60mA	8SC	R
CY1C	803 210 000		20				60		REC		20mA	B5	R
CY2	123 190 080		30				60		REC		20mA	8SC	RR
CY21	208 001 003		25				120		REC		23mA	B9A	R
CY31	020 080 310		20				120		REC		60mA	AO8	R
CY32	029 180 310		30				60		REC		23mA	AO8	RR
CZ30	028 193 210		80				60		REC		20mA	AO8	RR
CZ501D	265 113 000	G1	3.5	2.5	150	125	6.5	3.5	100	100	3	UX6	P
CZ504D	265 413 000		5.5	13.5	250	200	40	3.5	100	100		UX6	P
D1	123 000 000	D1	4				5		D			B3G	R
D1	289 300 000		5				60		REC		20mA	UX4	RR
D1	642 300 000		4	1	40		1	0.8	No Data Available			B4	T
D1C	264 230 000		1.2	5	135		2	0.6	100		0.55	5AA	T
D2	642 300 000		4	6	100		2.2	0.2	100		0.2	B4	T
D2C	264 230 000		1.2	7.5	135		3	1.2	100		1.1	5AA	T
D2M9	182 310 900		6.3				5		D			B7G	DD
D3A	141 230 615		6.3	1.2	200	150	22	36	No Data Available			B9A	P
D3F	141 23* 615		1.2	3	150	60	1.7	0.6	100	60		B9A	P
D4	642 310 000		4	3	200		4	3.3	100		3	B5	T
D13U	023 100 060	G1	13	5	250		6	2.5	100			8SC	T
D41	892 310 000		4						D			B5	DD
D42	812 300 000		4				15		D			B4	D
D43	012 300 000	D1	4				15		D			B5	D
D61	268 154 130		6.3	2	250	125	5	1.8	100	100		B8A	DP
D63	028 190 310		6				2		D			AO8	DD
D77	192 310 800		6				5		D			B7G	DD
D105	264 300 000		1	18	150		8	2	150		2	UX4	T
D105	642 300 000		1	18	150		8	2	150		2	B4	T
D110	264 300 000		4	40	250		40	2.7	100		2.7	UX4	T
D110	642 300 000		4	40	250		40	2.7	100		2.7	B4	T
D121	268 154 130		12.5	2	200	90	5	2	100	100	2	B8A	DP
D143	642 350 000		1	1	100	150	12	1.2	100		1.2	B5	P
D152	192 310 800		6						D			B7G	RR
D210	642 300 000		2	3	150		3.5	1.2	100		1.2	B4	T
D210SW	603 200 000	G1	2	4.5	150		2.4	1.3	100		1.3	B4	T
D243	642 350 000		2.5	27	300	200	20	2	100	100		B5	P
D400	892 310 000		4						D			B5	DD
D401	902 310 000	D1	4				5		D			B4	DD
D404	364 200 000		4	40	250		40	2.7	100			UX4	T
D404	642 300 000		4	40	250		40	2.7	100			B4	T
D410	642 300 000		4	3	150		3.5	0.5	150		0.5	B4	T
D418	102 300 000	D1	4						D			B4	D

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE	
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
D604	023 181 910		6									D	8SC	DD
DA	000 231 600	G1	13	2.6	200		3.7	2.2			2.2	150	B7	T
DA1	642 300 000		2	1	40		0.3	0.4	No Data Available			Sm4	T	
DA2	642 300 000		2	2.1	40		1.2	0.5	No Data Available			Sm4	T	
DA3	642 300 000		2	2.8	40		1.8	0.6	No Data Available			Sm4	T	
DA30	642 300 000		4(5)	70	300		60	3.5	100		6		B5	T
DA42	214 300 000	A1	7.5		400			3	100				B4	T
DA90	281 0*8 300		1.4				5		D				B7G	R
DA101	200 800 300		1.2						D				B7G	D
DA406	542 300 000	A1	4	2.5	150	75	3	0.8	100	75	0.8		B4	P
DAC1	023 008 060	G1	1.4		90		0.1	0.3	80		0.3		8SC	DT
DAC21	206 008 030	G1	1.4		100		0.7	0.4	80		0.3		AO8	DT
DAC22	264 008 030		1.2		90		0.3	0.3	90		0.3		B8G	DT
DAC25	264 228 230		1.2		150		0.6	0.3	125		0.3		AO8	DT
DAC31	036 080 200	G1	1.4		90		0.4	0.3	80		0.3		AO8	DT
DAC32	036 080 200	G1	1.4		90		0.1	0.3	90		0.3		AO8	DT
DAF1	802 362 450		1.2		150	60	1.4		125	60			F8	DP
DAF11	802 362 450		1.2		90	50	0.8	0.5	80	60	0.5		F8	DP
DAF40	268 354 230		1.4		75	75	0.8	0.7	80	75	0.8		B8A	DP
DAF41	268 354 230		1.4	1	75	75	0.8	0.7	80	75	0.8		B8A	DP
DAF70	604 238 050		1.2		60	60	0.8	0.4	80	75			B8D	DP
DAF91	208 564 300		1.4	1	90	90	2	0.7	80	90	0.7		B7G	DP
DAF92	265 804 300		1.4	1	90	90	2	0.7	90	90	0.7		B7G	DP
DAF96	2*8 564 300		1.4	1.5	60	60	0.2	0.2	80	75	0.2		B7G	DP
DAF191	2*8 564 300		1.4		60	60	2.2	0.7	80	75			B7G	DP
DAF961	208 564 300		1.2	0	60	60	2.2	0.7	No Data Available			B7G	DP	
DAS1	542 300 000	A	2	2.7	150	125	1.5	0.6	100	100	0.6		Sm4	P
DB	446 230 700		25		250	40	2.0		100				B7	TT
DB3	643 200 000		1.5	2.8	40		1.8	0.6	No Data Available			Sm4	T	
DB32	182 311 900		6.3				5		D			B7G	DD	
DBC21	206 098 030	G1	1.4	1.5	150		1.6	0.9	100		0.9		AO8	DDT
DBC25	208 904 630		1.2	1.5	150		1.6	0.9	125		0.9		B8B	DDT
DBC31	026 980 300	G1	1.4	1.5	150		1.6	0.9	100		0.9		AO8	DDT
DBS1	543 200 000	A1	1.5	2.7	120	60	1.5	0.6	100	60	0.5		Sm4	P
DC2/HLDD	809 231 600	G1	25	1	200		2		100		2		B7	DDT
DC2P	642 310 000		35	13.5	200		17	3.7	100		3.7		B5	T
DC2/Pen	045 231 600		35	10	250	200	30	2.5	100	100	2.5		B7	P
DC2/Pen	642 310 000	G2	35	10	250	200	30	2.5	100	100	2.5		B5	P
DC2SG	542 310 000	A	20	1	200	75	5.5	1.8	200	75	1.8		B5	P
DC2SGVM	542 310 000	A1	20	2	200	60	5.8	1.5	200	60	1.5		B5	P
DC3HL	642 310 000		25	1	90		0.3	0.4	100		0.4		B5	T
DC11	602 302 400		1.2	2.5	90		2	1	80		1		F8	T
DC25	260 024 030		1.2	3.5	100		1.8	0.8	100		0.8		B8B	T
DC70	400 230 060		1.2	4.5	150		14.5	3.7	100		3.4		B8D	T
DC80	402 230 060		1.2	3.5	150		20	3.5	100		3.5		B9A	T
DC90	266 044 300		1.4	3	90		3	1.1	90		1.1		B7G	T
DC93	204 036 200		1.4	5	100		10	2.4	100		2.3		B7G	T
DC96	266 044 300		1.4	2.5	90		2.1	1	90		1		B7G	T
DC193	2*4 *36 200		1.4	5	100		10	2.4	100		2.4		B7G	T
DCC90	274 346 200		1.4	2.5	90		3.7	1.8	80		1.8		B7G	TT
DCH1	207 540 630	G1	1.4	{	60		2.1	1.4	60	60	1.4	}	AO8	TH
					150	125	1	1	100	100				

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
DCH11	642 273 450		1.2	4	90		0.8			100	60		F8	TH
					150	60	1			100	60			
DCH21	207 540 630	G1	1.4		60		2.1	1.4		80	60		AO8	TH
					90	60	1			80	60			
DCH22	276 454 030		1.2	60		1.4			80	60		AO8	TH	
				90	50	0.7			80	60				
DCH25	276 454 030		1.4	60		2	1.3		80	60		AO8	TH	
				90	60	1			80	60				
DCH31	027 546 300	G1	1.4	60		2.1	1.4		80	60		AO8	TH	
				90	60	1	1.4		80	60				
DC/HL	642 310 000		6	1	100			3	100		3	B5	T	
DC/P	642 310 000		8	1	200			4.5	200		4.5	B5	T	
DC/SG	542 310 000	A1	6		150	75		2.7	200	75	2.7	B5	P	
DD4	892 310 000		4				0.8		D			B5	DD	
DD4D	091 231 800		4				4		D			B7	DD	
DD6	892 310 000		6						D			B5	DD	
DD6	192 310 800		6				9		D			B7G	DD	
DD6DS	023 180 910		6				9		D			8SC	DD	
DD6G	192 310 800		6						D			B7G	DD	
DD13	892 310 000		13				5		D			B5	DD	
DD41	219 080 130		4				5		D			MO8	RR	
DD101	219 080 130		10						D			MO8	DD	
DD207	892 300 000		2						D			B4	DD	
DD465	902 310 000	D1	4						D			B5	DD	
DD620	892 310 000		6				1		D			B5	DD	
DD818	892 310 000		8						D			B5	DD	
DD960	204 036 200		1.4	3	60		9	2.4	No Data Available			B7G	T	
DDA1	892 310 000		4						D			B5	DD	
DDD11	742 302 460		1.2	4.5	150		1.5	1.0	125		1.5	F8	TT	
DDD25	206 447 030		1.4	1.5	100		3.5	1.2	100		1.2	AO8	TT	
DDL4	892 310 000		4				5		D			B5	RR	
DDP4B	968 231 500	G1	4	5	250	250	36	8	100	150	7	B7	DDP	
DDP4M	918 236 500	G1	4	5	250	250	36	8	100	150	7	B7	DDP	
DD/Pen	849 231 500	A	4	2.5	200	100	5	2.7	100	100	2.7	B7	DDP	
DDPP4B	869 231 500	G1	4	5	250	250	36	10	100	150	9	B7	DDP	
DDPP4BS	023 189 560	G1	4	5	250	250	36	10	100	150	9	8SC	DDP	
DDPP4M	869 231 500	G1	4 (5)	5	250	250	36	10	100	150	9	B7	DDP	
DDPP6B	968 231 500	G1	6	6	250	250	36	9.5	100	150	9	B7	DDP	
DDPP6BS	023 189 560	G1	6	5	250	250	36	10	100	150	9	8SC	DDP	
DDPP6S	023 189 560	G1	6.3	5	250	250	36	10	100	50	9	8SC	DDP	
DDPP39	968 231 500	G1	39	8	200	200	45	8.5	100	150	8	B7	DDP	
DDPP39M	918 236 500	G1	39	8	200	200	45	8.5	100	150	8	B7	DDP	
DDPP39S	023 198 560	G1	44	8	200	200	45	8.5	100	150	8	8SC	DDP	
DDR2	256 101 403		6	5	250	250	40	12	No Data Available			B9G	P	
DDR3	812 380 000		6				60		REC		20mA	B7G	R	
DDR7	412 360 500		6	12.5	250	250	16	2.6	100	150	2.6	B7G	P	
DDT	908 231 600	G1	4	3	200		3.4	2.4	100		2.4	B7	DDT	
DDT2	682 390 000	G1	2	3	150		1	1.4	100		1.4	B5	DDT	
DDT2B	682 390 000	G1	2	4.5	150		2.5	1	100		1	B5	DDT	
DDT2BS	023 089 060	G1	2	4.5	150		2.5	1	100		1	8SC	DDT	
DDT4	809 231 600	G1	4	3	150			2.5	150		2.5	B7	DDT	
DDT4(S)	908 231 600	G1	4	5	200		3	3.6	150		3.6	B7	DDT	
DDT4(S)	023 198 060	G1	4	5	250		4	3.6	250		3.6	8SC	DDT	

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
DDT6	809 231 60J	G1	6	5.5	250		4	2	150		2	B7	DDT
DDT6S	023 189 030	G1	6	5.5	250		5	2	150		2	8SC	DDT
DDT13	908 321 600	G1	13	4	200		5	2	150		2	B7	DDT
DDT13S	023 189 060	G1	13	5	200		4	3.6	100		3.6	8SC	DDT
DDT16	809 231 600	G1	16	3	200		5	2.5	100		2.5	B7	DDT
DDT213	809 231 600	G1	13	4	200		5	2.2	150		2.2	B7	DDT
DDT215	682 390 000	G1	2	3	150		3	1.6	100		1.6	B5	DDT
DDT220	682 390 000	G1	2.5	4.5	150		2.5	1	100		1	B5	DDT
DE1	264 130 000		2.5	21	250		5.2	1	100		1	UX5	T
DE5	280 300 000		2.5				120		REC		30mA	UX4	R
DET19	204 140 300	A1/A2	6		300		25	2.1	100			UX7	TT
DET20	020 000 310	A1/G1	6	5.5	250		12	3	100		3	AO8	T
DF1	032 000 560	G1	1.4		90	90	1.2	0.7	80	90	0.7	8SC	P
DF11	602 302 450		1.2		90	50	0.9	0.6	80	60	0.6	F8	P
DF16	654 230 000		0.6		20	20	0.3	0.3	No Data Available			B5A	P
DF21	206 501 030	G1	1.4		90	90	1.2	0.7	80	90	0.7	AO8	P
DF22	206 501 030	G1	1.4	1.5	90	90	1.4	1.1	80	90	1.1	AO8	P
DF23	265 114 130		1.2	1.5	90	60	0.6	0.6	80	60	0.6	AO8	P
DF25	265 114 130		1.2	0.5	150	60	1	0.6	125	60	0.6	AO8	P
DF26	265 114 130		1.2	1.1	150	90	1.2	0.3	125	90	0.3	AO8	P
DF31	026 510 300	G1	1.4		90	90	1.2	0.6	80	90	0.6	AO8	P
DF32	026 510 300	G1	1.4	1.5	90	90	1.4	1.1	80	90	1.2	AO8	P
DF33	036 500 200	G1	1.4	0.5	90	90	0.8	0.7	80	90		AO8	P
DF51	542 300 000	A1	1.5		40	12	1.1	0.1	No Data Available			SM4	P
DF60	652 430 000		1.2	2	60	60	0.5	0.8	No Data Available			B5A	P
DF61	652 430 000		1.2	1	60	60	0.9	0.8	No Data Available			B5A	P
DF62	652 430 000		1.2	1	90	90	7.4	2	80	75		B5A	P
DF63	652 430 000		1.2	2.5	90	90	1.2	0.4	80	80	0.6	B5A	P
DF70	*4* 23* 650		0.6		40	40	0.4	0.2	No Data Available			B8D	P
DF72	*40 230 650		1.2	0	60	60	1.7	1	No Data Available			B8D	P
DF73	*40 230 650		1.2		90	75	1.7	0.8	80	75	0.8	B8D	P
DF91	265 024 300		1.4	0	90	75	3.5	0.9	80	60	0.9	B7G	P
DF92	265 024 300		1.4	2	90	60	1.9	0.7	80	60	0.7	B7G	P
DF95	265 024 300		1.4	1	90	75	3.7	1	80	60	1	B7G	P
DF96	265 *24 300		1.4	0.8	75	75	1.4	0.6	80	75	0.7	B7G	P
DF97	265 224 300		1.4		60	60	1.7	0.8	80	75	0.8	B7G	P
DF161	026 510 300	G1	0.7		20	20	0.3	0.8	No Data Available			AO8	P
DF167	653 420 000		0.6		20	20	0.1		No Data Available			B5A	P
DF191	265 *24 300		1.4		60	60	4.2	1	No Data Available			B7G	P
DF668	652 430 000		1.2	1.6	90	90	5.7	2.3	80	90		B5A	P
DF669	652 430 000		1.2	0	60	60	1.8	1.1	No Data Available			B5A	P
DF904	265 *24 300		1.4	0	90	90	1.6	0.9	90	90	0.9	B7G	P
DF906	265 3*4 300		1.4	0	40	40	3	1.7	No Data Available			B7G	P
DF961	265 024 300		1.2	0	60	60	3.4	0.8	No Data Available			B7G	P
DFF50	246 557 430		1.4	1.1	20	20	2.2	1.2	No Data Available			AO8	PP
DFF51	246 557 430		1.4	0	20	20	2.1	0.7	No Data Available			AO8	PP
DFF101	634 572 400		1.4		40	40	1	0.2	No Data Available			B7G	PP
DG210	642 350 000		2	1.5	100	20	1	1	No Data Available			B5	P
DH	642 310 000		16	3	200		6	3.7	100		3.7	B5	T
DH30	908 231 600	G1	13	2	200		2.8	4.5	150		4.5	B7	DDT
DH42	908 231 600	G1	4	3	250		1.1	1.2	150		1.2	B7	DDT
DH63	026 890 310	G1	6	3	250		1.1	1.2	150		1.2	AO8	DDT

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
DH73	026 890 310	G1	6	3	250		4.5	2	250		2	AO8	DDT
DH74	026 890 310	G1	13	3	250		1.1	1.2	100		1.2	AO8	DDT
DH76	026 890 310	G1	13	3	250		1.1	1.2	150		1.2	AO8	DDT
DH77	412 389 600		6	3	250		1	1.2	150		1.2	B7G	DDT
DH81	264 *98 130		6	3	250		1	1.2	150		1.2	B8B	DDT
DH101	264 *98 130		19	3	250		1	1.2	150		1.2	B8B	DDT
DH107	412 389 600		19	3	250		1	1.2	150		1.2	B7G	DDT
DH109	†91 238 146		28	2.3	200		1	1.4	100		1.4	B9A	DDDT
DH118	264 089 130		13	1	100		0.8	1.4	100		1.4	B8A	DDT
DH119	641 238 09*		13	0.7	100		0.8	1.4	100		1.4	B9A	DDT
DH142	264 098 130		14	1.6	200		1.5	1.6	100		1.4	B8A	DDT
DH147	026 890 310	G1	6	5.5	250		5	2	200		2	AO8	DDT
DH149	264 198 130		6	1	250		1.3	1	250		1	B8A	DDT
DH150	264 098 130		6	3	250		10	1.3	150		1.3	B8A	DDT
DH718	264 089 130		6.3	3	250		1	1.3	100		1.4	B8A	DDT
DH719	981 23† 146		6	3	250		1	1.3	100		1.3	B9A	DDDT
DHD	908 231 600	G1	16	3.2	200		3.2	2.2	200		2.2	B7	DDT
DHL	642 310 000		16	1.5	150		3.8	4.5	100		4.5	B5	T
DK1	023 064 560	G1	1.4		90	50	1.8	0.5	80	60	0.5	8SC	H
DK21	206 540 630	G1	1.4	2	60	60	4.5	1.4	80	60	1.4	AO8	H
DK31	027 546 300	G1	1.4	1	75	60			80	60		AO8	TH
DK32	036 546 200	G1	1.4	1	150	90			125	90		AO8	H
DK40	265 454 030		1.4	2	75	75	0.9	0.7	80	75		B8A	O
DK91	266 424 300		1.4	4	75		4.5	1.2	80		1.4	B7G	H
DK92	266 464 300		1.4	4	60		4	1.2	80		1.2	B7G	H
DK96	265 401 300		1.4	1.5	75	50	1	0.4	80	60	0.4	B7G	H
DK192	265 454 300		1.4		60	60			No Data Available			B7G	H
DL	642 310 000		16	8	200		25	4.5	100		4.5	B5	T
DL1	023 004 560		1.4	3	90	90	4	1.2	80	75	1.2	8SC	P
DL2	032 004 560		1.4	7.5	90	90	7.5	1.5	80	75	1.5	8SC	P
DL11	602 302 450		1.2	4.4	90	90	3.7	1	80	90	1	F8	P
DL21	206 540 030		1.4	3	90	90	4	1.3	80	90	1.3	AO8	P
DL22	265 004 330		1.2	4	150	125	5	1.6	100	100	1.6	AO8	P
DL25	265 204 330		1.2	4.7	150	125	4.5	2.1	100	100	2.1	AO8	P
DL29	265 004 320		1.4	4.5	90	90	9.5	2.4	80	90	2.4	B8G	P
DL31	036 540 200		1.4	3	90	90	4	1.2	80	75	1.2	AO8	P
DL33	036 540 320		1.4	4.5	90	90	9.5	2.2	80	75	2.2	AO8	P
DL35	036 540 200		1.4	7.5	90	90	7.5	1.5	80	75	1.5	AO8	P
DL36	036 540 200		1.4	4.5	90	90	9.5	2.2	90	90	2.2	AO8	P
DL41	36* 054 220		1.4	5.8	150	125	5	1.3	80	90	1.3	B8A	P
DL63	026 890 310	G1	6	3	250		4.2	1.6	100		1.6	AO8	DDT
DL64	652 430 000		1.2	1.5	20	20	0.2	0.2	No Data Available			B5A	P
DL65	365 420 000		1.2	0.2	20	20	0.5	0.4	No Data Available			B5A	P
DL66	653 420 000		1.2	1.4	20	20	0.3	0.3	No Data Available			B5A	P
DL67	653 420 000		1.2	0.2	20	20	0.5	0.4	No Data Available			B5A	P
DL68	653 420 000		1.2	2.2	20	20	0.6	0.4	No Data Available			B5A	P
DL69	652 430 000		1.2	2.5	90	90	1.7	0.8	80	75	0.8	B5A	P
DL70	*4* 23* 650		1.2	7.5	150	90	7.5	1.9	150	90	1	B8D	P
DL71	*4* 23* 650		1.2	1.2	40	40	0.6	0.5	No Data Available			B8D	P
DL72	*4* 23* 650		1.2	4.5	40	40	1.2	0.5	No Data Available			B8D	P
DL73	*40 230 650		1.2	9	100	100	15	2.5	100	100	3.8	B8D	P
DL74	026 890 310	G1	13	3	250		5.1	1.6	100		1.6	AO8	DDT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
DL75	*40 230 650		1.2	2.5	90	90	1.7	0.8	90	90	0.9	B8D	P
DL82	264 *98 130		6	3	250		5	1.4	150		1.4	B8B	DDT
DL91	264 526 300		1.4	7	90	75	7.4	1.6	80	60	1.5	B7G	P
DL92	264 536 200		1.4	7	90	75	7.4	1.6	80	75	1.6	B7G	P
DL93	365 426 300		1.4	8.4	150	90	13.3	1.9	100	75	1.9	B7G	P
DL94	365 024 300		1.4	4.5	90	90	9.5	2.1	80	75	2.1	B7G	P
DL95	264 536 200		1.4	4.5	90	90	9.5	2.1	80	75	2.1	B7G	P
DL96	265 034 200		1.4	5.2	90	90	5	1.4	80	60	1.4	B7G	P
DL98	524 332 600		1.25	10	150	125	30	2.2	100	100	2	B7G	P
DL101	036 540 210		1.4		100	100	10	2.5	100	100		B8A	P
DL145	264 098 130		15	5.9	250		5	2.3	150		2.3	B8A	DDT
DL161	654 230 000		1.4		20	20	0.5	0.5	No Data Available			B5A	P
DL167	653 420 000		1.2		20	20	0.5	1.5	No Data Available			B5A	P
DL192	264 536 200		1.4	7	60	60	7	1.5	No Data Available			B7G	P
DL193	265 436 200		1.4	7.5	100	60	9.5	2.9	150	60	2.9	B7G	P
DL620	653 420 000		1.2	6.5	60	60	3.1	0.6	80	75	0.6	B5A	P
DL650	653 420 000		1.2	0	20	20	0.4	0.4	No Data Available			B5A	P
DL651	653 420 000		1.2	0	20	20	0.4	0.4	No Data Available			B5A	P
DL907	365 004 200		1.4	5.5	150	125	15	3.1	125	125	3.1	B7G	P
DL962	264 536 200		1.4	7	60	60	7	1.5	No Data Available			B7G	P
DL963	265 436 200		1.2	7.5	150	60	10	2.2	100	60		B7G	P
DLL21	246 547 330		1.4	8.7	150	125	1		100	100		AO8	PP
DLL25	046 547 230		1.4	9.4	150	125	17		125	125		B8G	PP
DLL31	326 447 250		1.4	5	90	90	3		80	75		AO8	PP
DLL101	264 574 300		1.4	7	90	60	8.2	1.1	80	60	1.2	B7G	PP
DLL102	264 574 300		1.4		40	40	1.3	0.5	80	60		B7G	PP
DLP51	023 004 560	C	4	17	250	250	36	2.5	100	100		8SC	P
DN41	968 231 500	G1	4	3.3	250	200	32	10	100	150	9	B7	DDP
DN143	264 598 130		6	6.2	250	275	44	9.5	100	150	9	B8B	DDP
DO24	642 300 000		4	40	400		63	7.5	100		6.0	B4	T
DO25	642 300 000		6	75	300		60	3.7	100		3.7	B4	T
DO26	642 300 000		4	92	400		63	3.8	100		3.8	B4	T
DO30	642 300 000		4	100	400		60	6.9	100		6	B4	T
DO42	918 236 500	G1	4	6	250	250	36	9.5	100	150	8	B7	DDP
DP	264 008 030		16	7.5	200		25	6	100		6	AO8	DT
DP5	642 350 000		4	5	250	250	10	4	100	150	4	B5	P
DP7	023 004 560		4	20	250	250	20	2.5	100	150	2.5	8SC	P
DP61	412 365 100		6	8.5	200	125	7.7	5.1	150	150	4	B7G	P
DP495/6	869 231 500	G1	4	6.5	250	250	35	9.5	100	150		B7	DDP
DP4480	819 236 500	G1	44	8.4	200	200	46	8	100	100	7	B7	DDP
DP/Pen	045 231 600		16	10	200	200	31	3.5	100	100	3.5	B7	P
DPT	045 213 600		16	10	200	200	40	3.1	100	150	3.1	B7	P
DPT	642 310 000	G2	16	10	200	200	40	3	100	150	3	B5	P
DS	542 310 000	A1	16	1.5	200	75	2.1	1.1	200	75	1.1	B5	P
DS	000 231 600	G1	13	3	200		4	2.5	250		2.5	B7	T
DSB	542 310 000	A1	16	1	150	90	3.4	3.2	150	90	3.2	B5	P
DS/Pen	061 231 500	G1	16	1.5	200	100	4	2.3	200	100	2.3	B7	P
DT7	642 300 000		4	16	200		14	2	100		2	B4	T
DT41	809 321 600	G1	4	1	100			3	100		3	B7	DDT
DT215	023 089 060	G1	2	4.5	150		2.5	1	100		1	8SC	DDT
DT215	682 390 000	G1	2	4.5	150		2.5	1.5	100		1.5	B5	DDT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
DT436	809 231 600	G1	4	7	250		4	3.6	100		2	B7	DDT
DT436	023 198 060	G1	4	7	250		4	2	100		2	8SC	DDT
DT1336	023 198 060	G1	13	5	200		4	2	100		2	8SC	DDT
DTV1	809 231 600	G1	13	1	100			3	100		3	B7	DDT
DU1	802 300 000		4				30		REC		15mA	B4	R
DU2	892 300 000		4				30		REC		15mA	B4	RR
DU3	892 300 000		4				15		REC		10mA	B4	RR
DU4	892 300 000		4				30		REC		15mA	B4	RR
DU5	892 300 000		4				30		REC		15mA	B4	RR
DU10	802 300 000		4				60		REC		25mA	B4	R
DVSG	542 310 000	A1	16	1	200	75	7.5	2.5	100	75	2.5	B5	P
DVS/Pen	542 310 000	A1	16	1.5	200	100	6.5	1	200	100	3	B5	P
DW1	892 300 000		4				15		REC		10mA	B4	RR
DW2	892 300 000		4				30		REC		20mA	B4	RR
DW2X	892 300 000		4				30		REC		20mA	B4	RR
DW3	892 300 000		4				60		REC		20mA	B4	RR
DW3	892 300 000		4				60		REC		20mA	B4	RR
DW4/350	892 300 000		4				60		REC		20mA	B4	RR
DW4/500	892 300 000		4				60		REC		20mA	B4	RR
DW5	802 300 000		4				120		REC		30mA	B4	R
DW7X	892 300 000		4				30		REC		15mA	B4	RR
DW8	892 300 000		5				30		REC		15mA	B4	RR
DW15	892 300 000		7.5				30		REC		15mA	B4	RR
DW30	892 300 000		7.5				30		REC		20mA	B4	RR
DW802	642 300 000		4	25	250		26	4	100		4	B5	T
DW1508	642 310 000		4	7.5	150		4	1.5	100		1.5	B5	T
DW4011	642 310 000		4	5	200		5	3.6	150		3.6	B5	T
DW4023	642 310 000		4	3	150		2.5	1.7	100		1.7	B5	T
DX2	642 300 000		2	3	150		3.5	1.4	100		1.4	B4	T
DY30	*2* 0*0 3*0	D1	1.2				2		D			AO8	D
DY51	230 000 000	D1	1.4				13		D			B3G	D
DY70	230 000 000	D1	1.2				18		D			B3G	D
DY80	23* 232 *32	D1	1.2				7		D			B9A	D
DY86	23* 232 *32	D1	1.4				0.5		D			B9A	D
DY87	23* 232 *32	D1	1.4				0.5		D			B9A	D
DY604	642 300 000		4	15	150		8	1.3	100		1.3	B4	T
DY802	120 131 021	A	1.4				50		REC		20mA	B9A	R
DZ2	542 300 000	A1	4	1	200	100	4	0.7	100	100	4	B4	P
E	642 300 000		4	9	200		1.7	0.4	100		0.4	B4	T
E	264 300 000		3	22.5	125		6.5		125			UX4	T
E1C	216 489 130		6.3	5	200		4.5	2	100		2	AO8	DDT
E1F	216 054 300		6.3	3	250	100	2	1.4	100	100		B7	P
E2e	065 014 023		18	3.5	220	220	42	10.5	100	100	9.6	B9	P
E4	642 300 000		4	16	200		12	1.8	100			B4	T
E4D	892 300 000		4				30		REC		15mA	B4	RR
E4F	892 300 000		4				60		REC		20mA	B4	RR
E4H	802 300 000		4				125		REC		30mA	B4	R
E4K	003 200 000	D1	4				60		REC		20mA	B5	R
E4L	003 200 000	D1	4				120		REC		30mA	B5	R
E20V	023 100 080		20				60		REC		20mA	8SC	R
E55L	615 231 141		6.3		150	150	50	45	No Data Available			B9D	P
E80CC	641 337 412		6.3	5.5	250		6	2.8	100		2.5	B9A	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
E80CF	645 237 114		6.3	{ 2 2	100 200		14 10	5 6.2	100 100	60 100	6	B9A	TP
E80F	501 236 014		6.3	1.6	250	100	3	1.8	150	100	1.8		
E80L	041 230 651		6.3	4.5	200	200	30	9	100	100		B9A	P
E81CC	641 227 413		6.3		250		10	5.5	100		5.5	B9A	TT
E81L	041 230 651		6.3	3	200	200	20	11	100	100		B9A	P
E82CC	641 227 413		6.3	8.5	250		10.5	2.2	100			B9A	TT
E83CC	641 227 413		6.3	2	250		1.2	1.6	100		1.6	B9A	TT
E83F	541 236 **1		6.3	2	200	125	10	9	100	125	12	B9A	P
E84L	*41 23* 6*5		6.3		250	250	48	11	No Data Available			B9A	P
E86C	641 234 146		6.3	2	200		12	14	No Data Available			B9A	T
E87L	041 230 651		6	6	250	150	36	10	100	100		B9A	P
E88C	414 234 464		6.3	1.2	150		12.5	13.5	No Data Available			B9A	T
□ E88CC	641 237 410		6.3	1.2	90		15	12.5	100		13	B9A	TT
E88CC/01	741 236 410		6.3	1.2	100		15	12.5	No Data Available			B9A	TT
E90CC	672 344 100		6.3	2.1	100		8.5	6	100		8.5	B7G	TT
E90F	412 365 100		6.3	1.2	250	150	7.4	4.6	100	100		B7G	P
E91AA	182 310 900		6.3				9		D			B7G	D
E91H	412 365 100		6.3	5	150	75	0.5	0.6	125	75	0.6	B7G	H
E92CC	672 344 100		6.3	1.7	150		8.5	6	100		6	B7G	TT
E95F	412 365 100		6.3	2	150	125	7.5	5.5	100	100		B7G	P
E99F	412 365 100		6.3	20	250	100	9.2	3.8	100	100		B9A	P
E130L	*2* 54* 310	A1	6.3	15.5	250	150	100	27	100	100		AO8	P
E135	365 304 220		12.6	25	400		80		100			AO8	P
E180CC	641 227 413		6.3	1.9	150		8.5	6.3	100		7.8	B9A	TT
E180F	141 23* 615		6	2	200	150	13	16.5	No Data Available			B9A	P
E181CC	641 227 413		6.3	3	150		8.5	4.7	100		5.6	B9A	TT
E182CC	741 221 436		6.3	2	150		36	15	No Data Available			B9A	TT
E184	141 230 651		6.3	2.5	200	200	10	15	No Data Available			B9A	P
E186F	141 23* 615		6.3	1.4	200	150	11.5	16	No Data Available			B9A	P
E188CC	641 327 410		6.3	1.4	90		12	11.5	No Data Available			B9A	TT
E220B	446 230 700		2	1	150		3	2.5	100		2.5	B7	TT
E235	642 300 000		2	7.5	150		13	3	100		3	B4	T
E235L	*26 54* 310		6.3	8.2	100	100	100	14	No Data Available			AO8	P
E236L	*2* 54* 310	A1	6.3	8.2	100	100	100	14	No Data Available			AO8	P
E280F	141 23* 615		6.3	1.8	200	150	20	26	No Data Available			B9A	P
E282F	141 23* 615		6.3		150	150	35	26	No Data Available			B9A	P
E283CC	146 231 074		6.3	2	250		1.2	1.6	100			B9A	TT
E288CC	741 236 410		6.3	1.5	100		30	18	No Data Available			B9A	TT
E405	642 300 000		4	32	250		20	2	100		2	B4	T
E406	642 300 000		4	34	250		8	2.3	100		2.3	B4	T
E406N	642 300 000		4	34	250		8	2.3	100		2.3	B4	T
E408	642 300 000		4	30	430		26	2	100		2	B4	T
E408N	642 300 000		4	36	400		30	2.7	100		2	B4	T
E409	642 310 000		4	16	200		12	1.3	100		1.3	B5	T
E409N	642 310 000		4	16	200		12	1.3	100		1.3	B5	T
E410	642 300 000		4	28	400		30	6	100		6	B4	T
E414	642 310 000		4	6	150		6.5	2	100		2	B5	T
E414	642 300 000		4	15	150		8	1.3	100		1.3	B4	T
E415	642 310 000		4	8	200		6	1.4	100		1.4	B5	T
E415	264 130 000		4	8	200		6	1.4	100		1.4	UX5	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
E420	642 300 000		4	18	150		11	1.6	100		1.6	B4	T
E422	642 300 000		4	16	250		12	5	100		5	B4	T
E424	642 310 000		4	2.5	200		6	2.4	100		2.4	B5	T
E424N	642 310 000		4	3.5	200		6	2.4	100		2.4	B5	T
E424R	612 300 000	G1	4	5	200		6	1.6	100		1.6	B4	T
E425	642 310 000		4	4.5	150		3	3	100		1	B5	T
E428	642 310 000		4	3	200		6	2.4	100		2.4	B5	T
E430	642 310 000		4	3	150		4	2	100		2	B5	T
E430N	642 310 000		4	15	200		15	3	100		3	B5	T
E435	642 310 000		4	1.5	200		3	1	100		3	B5	T
E438	642 310 000		4	3	200		2.5	1.5	100		1.5	B5	T
E438M	642 310 000		4	3	200		2.5	1.5	100		1.5	B5	T
E441	642 310 000	G2	4		100	100	1.7	1.0	100	100		B5	P
E441N	642 300 000	G2	4		100	00	1.7	1	100		1	B5	P
E442	542 310 000	A1	4	1.3	200	60	1.5	0.9	100	60	0.9	B5	P
E442S	542 310 000	A1	4	2	200	60	4	1	100	60	1	B5	P
E443H	642 350 000		4	40	400	200	30	1.9	100	100	1.9	B5	P
E444	258 413 000	A1	4	3	200	90	4	3	100	90	3	UX6	DP
E444N	258 413 000	A1	4	3	100	90,	4	3	100	90	3	UX6	DP
E444S	642 310 000	D1	4	3.5	200		6	2	100		2	B5	DT
E445	542 310 000	A1	4	2	200	100	6	1	100	100	1	B5	P
E445M	542 310 000	A1	4	2	200	100	6	1	100	100		B5	P
E446	542 310 000	A1	4	2	200	100	3	2.3	100	100	2.3	B5	P
E447	542 310 000	A1	4	2	200	125	4.5	2.3	100	100	2.3	B5	P
E448	164 552 300	G1	4	1.5	200	125	3	0.6	100	100		C7	P
E449	165 452 300	G1	4	2	200	75	3	1.8	100	75	1.8	C7	P
E451	642 350 000		4		400	250	17		100	150	2.4	B4	P
E452T	542 310 000	A1	4	2	200	100	3	2	100	100	2	B5	P
E452T	254 130 000	A1	4	2	200	100	3	2	100	100	2	UX5	P
E453	045 231 600		4	15	250	250	24	2.5	100	150	2.5	B7	P
E454	216 809 300	G1	4	3.5	200		3.5	1.6	100		1.6	UX7	DDT
E455	542 310 000	A1	4	1.5	200	100	3	2	100	100	2	B5	P
E455	254 130 000	A1	4	1.5	200	100	3	2	100	100	2	UX5	P
E462	542 310 000	A1	4	2	200	100	3	2	100	100	2	B5	P
E463	045 231 600		4	22	250	250	36	2.7	100	150	2.7	B7	P
E499	642 310 000		4	1.6	200		0.2	4	150		4	D5	T
E501D	265 113 000	G1	3.5	2.5	250	125	6.5	3.5	100	100		UX6	P
E501R	265 113 000	G1	6.3	2.5	250	125	6.5	3.5	100	100		UX6	P
E504D	265 413 000		5	13.5	250	200	40	3.5	100	100		UX6	P
E504P	265 423 000		6.3	13.3	250	200	40	3.5	100	100		UX6	P
E543	045 231 600		4	15	250	250	24	2.5	100	150	2.5	B7	P
E646	020 080 310		26				120		REC		30mA	AO8	R
E703	642 300 000		7.5	100	400		30	1	100		1	B5	T
E810F	141 235 615		6.3	1.9	150	150	35	50	No Data Available			B9A	P
E851	030 908 020		5				120		REC		30mA	AO8	RR
E1137	366 446 622		6	2.3	250		32	16	No Data Available			B9G	T
E1148	020 000 310	A1/G1	6	5.5	250		14	3	100		3	AO8	T
E1192	021 450 310	A1	6	11	250	150	30	3.5	100	100	3.5	AO8	P
E1242	265 511 403		6	30	300	250	25	1.9	100	150		B9G	P
E1323	020 000 310	A1/G1	6	3	100		25	6.7	100		6	AO8	T
E1413	265 024 300		1.4	1	90	75	3.5	0.9	80	75	0.9	B7G	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
E1478	642 300 000		4	1	100			6.9	100		6	B5	T
E1484	208 564 300		1.4	1	90	90	2.7	0.6	80	90	0.6	B7G	DP
E1489	241 657 143		6		350	250	21	3.9	100	100	3.9	B9G	PP
E1517	412 361 500		6	2.5	200	200	8	2.5	100	100	2.5	B7G	P
E1518	412 361 500		6	2	250	250	10	7.5	100	150	5	B7G	P
E1606	461 471 230		6	8	250		9	2.6	100		2.6	AO8	TT
E1624	6*2 364 100		6	8.5	250		10.5	2.2	100		2.2	B7G	T
E1654	026 510 310	G1	6	1.5	200	200	10.9	8.5	100	150	8	AO8	P
E1662	412 360 500		6	12	250	250	20	2.6	100	150	2.6	B7G	P
E1677	002 300 000	D1	2				15		REC		10mA	B4	R
E1678	026 510 310	G1	13	3	250	100	7.6	1.5	100	100	1.5	B7G	P
E1681	026 540 310		15	13	200	175	35	2.5	100	100	2.5	AO8	P
E1682	020 800 310		30				120		REC		30mA	AO8	R
E1706	256 051 463		6	8	250	175	80	13	100	100	10	B9G	P
E1709	064 471 230		6	2	250		2	1.3	150		1.3	AO8	TT
E1733	009 **8 230		6				60		REC		20mA	B8B	RR
E1736	265 004 130		6	4.4	250	250	40	10.5	100	150	10	B8B	P
E1740	209 008 130		6				30		REC		15mA	B8B	RR
E1751	192 340 800		6				5		D			B7G	RR
E1780	009 **8 230		4				30		REC		15mA	B8B	RR
E1787C	316 541 120		6	9	250	175	50	8	100	100	8	B9G	P
E1794	265 104 130		19	3	250	75	2.5	2.8	100	60	2.8	B8B	P
E1795	280 008 130		50				120		REC		30mA	B8B	R
E1796	265 004 130		80	9.5	200	175	70	10	100	100	9	B8B	P
E1809	265 104 130		6	2	250	100	8	2.8	100	100	2.8	B8B	P
E1813	264 198 130		19	3	250		1	1.2	100		1.2	B8B	DDT
E1816	364 526 300		1.4	7	90	75	7.4	1.5	80	60	1.5	B7G	P
E1835	005 231 600	G1	13	4.4	250	250	40	10.5	100	150	9	B7	P
E1838	264 198 130		6	3	250		1	1.2	100		1.2	B8B	DDT
E1848	264 *98 130		6	2	200		10	1.4	100		1.4	B8B	DDT
E1861	041 230 651		6.3		200	200	19	10	No Data Available			B9A	P
E1884	002 300 000	D1	2				5		D			B4	R
E1912	412 389 600		6	3	250		1	1.2	100		1.2	B7G	DDT
E1935	241 657 143		6	26	250	200	30	3.9	100	100	3.9	B9G	PP
E1938	802 309 100		6				30		REC		15mA	B7G	RR
E1969	542 376 400		6	{ 2	100		5	2.2	100	60	2.8	B7G	TH
				{ 1	250	75	5.3	2.2	250	75			
E1976	412 361 500		19	2.5	200	200	8	2.5	100	150	2.5	B7G	P
E1984	412 36* 500		6	5.5	250	250	30	10	100	150	9	B7G	P
E1985	281 008 300		40				60		REC		20mA	B7G	R
E1987	412 36* 500		40	8	200	150	50	10	100	100	9	B7G	P
E1994	471 461 230		13	8	250			2.6	100		2.6	AO8	TT
E2004	*2* 0*0 3*0	D1	1.2				5		D			AO8	R
E2020N	642 310 000		20	18	200		15	1.5	100		1.6	B5	T
E2047	412 361 500		12.5	2.5	200	200	8	2.5	200	200	2.5	B7G	P
E2122	902 308 100		6				30		REC		15mA	B7G	RR
E2128	241 657 143		19	16.5	250	150	30	3.9	100	100	3.9	B9G	PP
E2134	412 36* 500		6		200	200	55	9.5	100	100	7	B7G	P
E2153	412 36* 500		13	8	200	150	50	10	100	100	9	B7G	P
E2178	**1 23* **8		20				120		REC		40mA	B9A	R
E2179	*41 23* *51	A1	20	12	150	150	50	8.5	100	100	7	B9A	P
E2185	026 040 310		6	R	250		9	2.6	100		2.6	AO8	L

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
E2223	*** 23* **8		25				120			REC	30mA	B9A	R
E2256	**1 23* **8		20				120			REC	40mA	B9A	R
E2382	021 *4* 350	A1	52		150	150	100	16		No Data Available		AO8	P
E2754	602 441 443		6.3	1.5	150		25	25		No Data Available		B9A	T
E2965	241 756 143		6.3	18	300	200	40	3.7		No Data Available		B9G	PP
E7002	*** 23* ***	D	1.4				60			REC	20mA	B9A	R
E7003	*** 23* ***	D1	6.3							D		B9A	D
E7004	182 310 900		6.3				5			D		B7G	DD
E7005	801 23* 9**		6.3							D		B9A	DD
E7006	801 23* 9**		6.3				30			REC	15mA	B9A	RR
E7007	*** 23* **8	C	17				120			REC	40mA	B9A	R
E7010	**1 23* **8		55				120			REC	40mA	B9A	R
E7011	**1 23* **8		38				180			REC	50mA	B9A	R
E7013	602 304 100		6.3	2	250		20	5.5	100		5.5	B7G	T
E7014	602 304 100		9.4	2	250		10	5.5	100		5	B7G	T
E7015	641 227 413		6.3		100		11	3	100		3	B9A	TT
E7017	641 227 413		6.3	1	100		0.5	1.2	100		1.2	B9A	TT
E7019	146 234 117		6.3	1.5	90		12	6	100		6	B9A	TT
E7020	641 237 410		6.3	2.3	250		10	5.9	100		5	B9A	TT
E7022	641 237 410		7	1.2	90		15	12.5	No Data Available			B9A	TT
E7023	146 234 117		7	1.5	100		12	6	100		6	B9A	TT
E7024	641 237 410		9	2.1	200		10	5.8	100		6	B9A	TT
E7025	641 237 410		26	2.1	200		10	5.8	100		6	B9A	TT
E7026	141 230 651		6.3	2	150	150	10	7.4	100	100		B9A	P
E7027	501 236 014		6.3	2	250	150	3	2.5	100	100		B9A	P
E7032	126 540 310		6.3	100	250	250	100	11	100	100		AO8	P
E7033	*41 23* *51	A1	6.3	38.5	250	250	32	4.6	100	100		AO8	P
E7034	541 231 600		6.3		200	200	36	10	100	100		B9A	P
E7040	020 540 310	A1	25	21	150	150	100	11	No Data Available			AO8	P
E7041	*41 23* *51	A1	21.5	24	150	150	45	6.5	100	100		B9A	P
E7043	541 231 600		15	2.3	150	150	36	10	No Data Available			B9A	P
E7044	*41 23* 6*5		16	6	200	200	34	10	No Data Available			B9A	P
E7051	645 237 114		6.3	{ 1	150	100	18	8.5	100	60	8	} B9A	TP
				1	150	100	10	5.2	100	100			
E7053	414 237 516		6.3	{ 22.5	100		3.5	2.2	100	60	2	} B9A	TP
				22.5	250	250	28	5	100	100			
E7055	414 237 516		16	{ 11.5	100		3.5	2.2	100	60	2	} B9A	TP
				11.5	150	150	41	7.5	100	100			
E7056	645 237 114		9.5	{ 1	150		18	8.5	100	60	8	} B9A	TP
				1	150	100	10	5.2	100	100			
E7059	414 237 516		50	{ 16	100		3.5	2.2	100	60	2.2	} B9A	TP
				16	200	200	35	6.8	100	100			
E7060	266 044 300		1.4	2.5	90		2.1	1	80		1	B7G	T
E7062	265 024 300		1.4		90	90	1.6	0.8	80	90		B7G	P
E7066	200 564 300		1.4		90	90	1.1	0.4	80	90	0.4	B7G	P
E7074	641 234 146		6.3	1.5	150		12	14	No Data Available			B9A	T
E7075	641 234 146		3.8	1.5	150		12	14	No Data Available			B9A	T
E7078	041 230 651		6.3	2	250	100	9	4.4	100	100		B9A	P
E7079	041 230 651		12.6	1	150	100	12	4.4	100	100		B9A	P
E7081	020 540 310	A1	6.3	21	150	150	100	11	No Data Available			AO8	P
E7087	461 237 145		15	{ 1.7	200		3	4	100	60	4	} B9A	TP
				2.1	150	150	18	11	100	100			

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
E7088	461 237 145		6.3	1.7 2.1	200		3	4	100	60	4	B9A	TP
E7108	501 236 014		6.3		2	250	150	3	2	100	100		
E7109	141 230 615		6.3	1.1	200	150	13	16.5	No Data Available			B9A	P
E7110	141 230 651		6.3	3.5	250	250	10	6.8	100	100		B9A	P
E7143	412 314 600		3.1	1	200		11.5	6.7	100		6	B7G	T
E7144	614 237 410		6.3	1.2	90		15	12.5	No Data Available			B9A	TT
E7145	501 236 014		6.3	2	50	50	1.8		No Data Available			B9A	P
EA40	200 800 130		6				5		D			B8A	R
EA50	123 000 000	D1	6						D		6	B3G	D
EA63	541 231 600		6.3	5.5	250	250	36	10.5	No Data Available			B9A	P
EA76	281 380 000		6				5		D			B5B	R
EA111	023 010 000	D1	6.3				60		REC		20mA	F8	R
EA962	200 100 300	D1	6.3						D			B7G	D
AAA11	812 300 190		6.3				5		D			F8	RR
EAA91	182 311 900		6.3				5		D			B7G	DD
AAA171	122 813 390		6.3		200		10		D			B8B	DD
EAA901	182 310 900		6.3				10		D			B7G	DD
EAA901S	182 310 900		6.3				10		D			B7G	DD
EAB1	023 110 890		6				0.8		D			8SC	DDD
EABC80	791 238 146		6	3	250		1	1.2	100		1.3	B9A	DDDT
EAC91	812 314 600		6	3.2	200		7.4	2.8	100		2.8	B7G	DT
EAF21	265 814 130		6.3	2	250	100	6	2.8	100	100		B8G	DP
EAF41	268 154 130		6	4	250	100	5	1.8	100	100	1.8	B8A	DP
EAF42	268 154 130		6	2	250	100	5	1.8	100	100	1.8	B8A	DP
EAF801	541 236 081		6.3	2	250	200	9	3.8	100	100		B9A	DP
EB4	023 180 910		6				0.8		D			8SC	DD
EB11	802 301 190		6				9		D			F8	DD
EB34	029 180 310		6				5		D			AO8	DD
EB40	208 090 130		6				40		D			B8A	DD
EB41	201 908 130		6				5		D			B8A	RR
EB91	192e310 800		6				9		D			B7G	DD
EB111	023 004 060		4	50	250		60	5.2	100			F8	T
EBC1	023 198 060	G1	6	7	250		4	2	100		2	8SC	DDT
EBC3	023 189 060	G1	6	5.5	250		5	2	100		2	8SC	DDT
EBC11	892 301 460		6	8	250		5	2.2	100		2	F8	DDT
EBC21	264 *89 130		6	5.5	250		5	2	100		2	B8B	DDT
EBC30	023 189 060	G1	6	4.3	200		4	2	150		2	8SC	DDT
EBC33	026 890 310	G1	6	5.5	250		5	2	100		2	AO8	DDT
EBC41	264 089 130		6	3	250		1	1.3	100		1.2	B8A	DDT
EBC51	389 060 420		6.3	7.3	250		70	4	100		4	B9G	DDT
EBC80	641 238 090		6.3	3	250		1	1.2	100		1.2	B9A	DDT
EBC81	641 238 09*		6	3	250		1	1.2	100		1.2	B9A	DDT
EBC90	412 389 600		6	3	250		1	1.2	100		1.2	B7G	DDT
EBC91	412 389 600		6	2	250		1.2	1.6	100		1.6	B7G	DDT
EBF1	023 189 560	G1	6	3	250	125	9	1.1	100	100	1.1	8SC	DDP
EBF2	023 189 560	G1	6	2	250	100	5	1.8	100	150	1.8	8SC	DDP
EBF2G	206 589 130	G1	6.3	2	250	100	5	1.8	100	100	1.8	AO8	DDP
EBF11	892 361 450		6	2	250	100	5	1.8	100	100	1.8	F8	DDP
EBF15	982 361 450		6	2	260	100	12	5	100	100	5	F8	DDP
EBF21	268 954 130		6	3.2	250	100	7.5	2.2	100	100		B8G	DDP
EBF32	026 895 310	G1	6	2	250	100	5	1.8	100	100	1.8	AO8	DDP

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
EBF35	216 589 130	G1	6	2	250	100	5	1.8	100	100	1.8	AO8	DDP
EBF80	541 236 891		6	2	250	90	5	2.2	100	90	2.2	B9A	DDP
EBF81	541 236 891		6	2	250	75	6.7	1.1	100	100		B9A	DDP
EBF83	541 236 891	G1	6.3		12	12	0.4	1	No Data Available			B9A	DDP
EBF89	541 236 891		6.3	2	250	100	9	3.8	100	100		B9A	DDP
EBF171	892 541 360		6.3	3.2	250	80	6	1.8	100	80		B8B	DDP
EBL1	023 189 560	G1	6	6	250	250	36	9.5	100	150	9	8SC	DDP
EBL21	264 598 130		6	6	250	250	36	9	100	150	9	B8B	DDP
EBL31	026 895 310	G1	6	6	250	250	36	9.5	100	150	9	AO8	DDP
EBL71	264 589 130		6	5	250	250	44	9.5	250	200	9.5	AO8	DDP
EC2	023 100 060	G1	6	5.5	250		6	2.5	100		1.5	8SC	T
EC21	206 401 003		6	4	250		5	2.7	100		2.5	B9G	T
EC31	026 040 310		6	16	250		20	3.2	100		3.2	AO8	T
EC40	244 644 130	A1/G1	6	1.5	300		15	12	100		9	B8A	T
EC41	206 040 130		6	5.5	300		20	4.5	125		4	B8A	T
EC52	241 600 003		6	2.6	250		10	6.5	100		6.5	B9G	T
EC53	123 000 000	A1/G1	6	3.3	200		7.5	2.9	100		2.9	B3G	T
EC54	244 644 413		6	1.5	250		10	9	100		7	B9G	T
EC56	*21 0*0 310	A1/G1	6.3	1.8	200		30	15	No Data Available			AO8	T
EC57	*21 0*0 310	A1/G1	6.3	1.8	200		30	15	No Data Available			AO8	T
EC70	462 603 160		6	2	100		13	5.5	100		5.5	B8D	T
EC71	402 013 060		6.3	1.25	100		8.5	5.8	100		5.8	B8D	T
EC80	441 230 446		6	1.5	250		15	12	150		10	B9A	T
EC81	401 230 060		6	2	150		30	5.5	100		3	B9A	T
EC84	414 464 234		6.3	1.1	150		16	10	100		10	B9A	T
EC86	641 234 146		6.3	1.5	75		12	14	No Data Available			B9A	T
EC86C	641 234 146		6.3	1.5	200		12	14	No Data Available			B9A	T
EC88	414 234 464		6	1.2	150		12.5	14	No Data Available			B9A	T
EC90	6*2 364 100		6	8.5	250		10.5	2.2	100		3.3	B7G	T
EC91	412 314 600		6	2	250		6	8.5	200		8	B7G	T
EC92	602 304 100		6	2	250		10	5	100		5	B7G	T
EC93	642 314 600		6	4	100		16	8	100		8	B7G	T
EC94	642 314 600		6.3	2.5	100		16	6.6	100		6.6	B7G	T
EC95	142 361 100		6.3	1.2	200		10	10.5	No Data Available			B7G	T
EC96	412 314 600		6.3	1	200		11.5	6.7	100		5	B7G	T
EC97	142 356 100		6.3	1	150		11	13	No Data Available			B7G	T
EC98	412 344 600		6.3	1.3	150		13.5	13.5	No Data Available			B7G	T
EC157	*21 0*0 310	A1/G1	6.3	2	200		44	22	No Data Available			AO8	T
EC158	*21 0*0 310	A1/G1	6.3	4	200		68	15	No Data Available			AO8	T
EC760	462 603 160		6.3	2.4	150		13	6.5	100			B8D	T
EC806S	641 234 146		6.3		200		12	14	No Data Available			B9A	T
EC900	412 360 100		6.3	1	150		11.5	14.5	No Data Available			B7G	T
EC903	642 314 600		6.3	4	100		16	8	100			B7G	T
EC1000	102 *13 060	G1	6.3	2	80		14	14.5	No Data Available			B8D	T
EC1030	444 123 460		6.3		100		7	16	No Data Available			B8D	T
EC1031	444 123 460		6.3		100		7	16	No Data Available			B8D	T
EC8010	414 234 464		6.3		200		25	28	No Data Available			B9A	T
EC8020	414 234 464		6.3	2.4	200		40	60	No Data Available			B9A	T
ECC31	027 446 310		6	4.6	250		6	2.3	100		2.3	AO8	TT
ECC32	461 471 230		6	4.6	250		6	2.3	100		2.3	AO8	TT
ECC33	461 471 230		6	4	250		9	3.8	100		3.6	AO8	TT
ECC34	461 471 230		6	16	250		10	2.2	100		2.2	AO8	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
ECC35	461 471 230		6	2.5	250		2.3	2	100		2	AO8	TT
ECC40	274 164 130		6	5.2	250		6	2.7	100		2.7	B8A	TT
ECC70	742 113 460		6.3	1	100		6.5	5.4	100		5.4	B8D	TT
ECC81	741 226 413		6	2	250		10	5.5	150		5	B9A	TT
ECC82	741 226 413		6	8.5	250		10.5	2.2	100		2	B9A	TT
ECC83	741 226 413		6	2	250		1.2	1.6	150		1.6	B9A	TT
ECC84	147 234 116		6	1.5	90		12	6	100		6	B9A	TT
ECC85	741 236 410		6	2.3	250		10	5.9	100		5	B9A	TT
ECC86	641 237 410		6.3	0.3	12		2.5	4.6	No Data Available			B9A	TT
ECC88	741 236 410		6.3	1.2	90		15	12.6	No Data Available			B9A	TT
ECC89	146 234 117		6.3	1.2	90		15	12	No Data Available			B9A	TT
ØECC91	672 344 100		6	0.8	100		8.5	5.3	100		5.3	B7G	TT
ECC180	641 237 410		6.3	3	150		5	4.5	100		5.3		
ECC186	641 227 413		6.3	2	150		9	6.4	100		6.3	B9A	TT
ECC186	641 227 413		6.3	8.5	250		10.5	10.5	100		3.1	B9A	TT
ECC189	641 327 410		6.3	1.4	90		15	12.5	No Data Available			B9A	TT
ECC230	461 471 230		6	30	100		100	6.5	No Data Available			AO8	TT
ECC282	641 227 413		6.3	2	100		11.8	3.1	100		3.1	B9A	TT
ECC801	641 227 413		6.3	2	250		10	5.5	100			B9A	TT
ECC801S	641 227 413		6.3		250		10	5.5	100			B9A	TT
ECC802	641 227 413		6.3	8.5	250		10.5	2.2	100		2	B9A	TT
ECC802S	641 227 413		6.3	8.5	250		10.5	2.2	100		2	B9A	TT
ECC803	641 227 413		6	2	250		1.2	1.6	100		1.6	B9A	TT
ECC803S	641 227 413		6.3	2	250		1.2	1.6	100		1.6	B9A	TT
ECC804	641 237 410		6.3	7.7	200		10	3.4	100		3	B9A	TT
ECC807	147 231 064		6.3	1.5	250		1.3	2.4	100		2.4	B9A	TT
ECC808	416 230 714		6.3	1.9	250		1.2	1.6	100		1.6	B9A	TT
ECC813	614 227 143		6.3		250		14.5	5.2	100		5	B9A	TT
ECC865	641 237 410		6.3	14	200		8.7	6	100		6.5	B9A	TT
ECC950	672 344 100		6.3	2.1	100		8.5	6	100		6	B7G	TT
ECC962	672 344 100		6.3	1.7	150		8.5	6	100		6	B7G	TT
ECC8100	141 237 416		6.3		100		25	16	No Data Available			B9A	TT
					100		25	20	No Data Available				
ECF1	023 164 570	G1	6.3	3	150		8	2.2	150	60	2.6	8SC	TP
				2	250	100	5	2.5	100	100	2.5		
ECF12	642 371 450		6	2	100	100	11	3	100	60	3	F8	TP
				2	250	100	5	2	100	100	2		
ECF80	645 237 114		6	2	100		14	5	100	60	5	B9A	TP
				3	250	200	7	5.5	150	150	5		
ECF82	645 237 114		6	1	150		18	8.5	100	60	7	B9A	TP
				1	250	100	10	5.2	100	100	5		
ECF83	146 237 514		6.3	3.7	60		6.5	3.6	80	60		B9A	TP
				60	50		3	1.3	80	60			
ECF86	141 234 675		6	3	100		14	5.5	100	60	6	B9A	TP
				1.2	200	150	10	12	100	100			
ECF801	141 236 574		6.3	3	100		15	8.5	100	60		B9A	TP
				1.2	150	100	10	10	100	100			
ECF802	141 237 564		6.3	2	200		3.5	3.5	100	60	3	B9A	TP
				1	100	100	6	5.5	100	100	5		
ECF804	645 237 115		6.3	1.5	150		13.5	7.2	100	60	7	B9A	TP
				2	150	150	7	11	100	100			
ECF805	657 231 414		6.3	3	100		14	5.5	100		6	B9A	TP
				1.5	100	100	10	11	100	100			

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
ECF8070	141 237 564		6.3	{ 3 1.2	100 200		14 10	5.5 12	100	60	6	} B9A	TP
ECH2	023 164 570	G1	6	{ 1 2.5	100 250	150	9.5 3.2	5.5	100	60	5		
ECH3	023 164 570	G1	6	{ 2 2	100 250	100	5 4.8	2.4 2.5	100	60	2.8 2.5	} 8SC	TH
ECH3G	027 546 310	G	6	{ 2 2	100 250	100	5 4.8	1.4 2.5	100	60	2.8		
ECH4	123 614 570	G1	6	{ 2 2	100 250	100	6.3 6.5	2.7 2.6	100	60	2.2 2.6	} 8SC	TH
ECH4G	127 546 310	G	6.3	{ 2 2	100 250	200	6.3 6.5	2.7 2.6	100	60	2.2 2.6		
ECH11	642 371 450		6	{ 2 2	100 250	100	5 4.7	2.4 2.5	100	60	2.8 2.5	} F8	TH
ECH21	276 454 130		6	{ 2 2	100 250	90	6.2 5.3	2.4 2.2	100	60	3.2 2.2		
ECH33	027 546 310	G1	6	{ 2 2	100 200	100	5 3	2.4 2.8	100	60	2.8	} AO8	TH
ECH35	027 546 310	G1	6	{ 2 2	100 250	100	5.4 5	2.2 2.4	100	60	2.8 1.2		
ECH41	276 454 130		6	{ 2 2	100 250	100	5 3	2.2 2	100	60	2.2 2.4	} B8A	TH
ECH42	276 454 130		6	{ 2 2	100 250	100	5 8	2.2 2	100	60	2.8 3.2		
ECH43	276 454 130		6	{ 2 2	100 250	100	5 8	2.2 2	100	60	2.2 2	} B8A	TH
ECH71	276 454 431		6	{ 2 2	250 250	100	2 3		100	60			
ECH80	541 23* 674		6.3	{ 2 2	75 250	75	5 3	0.75	100	60	80	} B8B'	TH
ECH81	541 237 164		6	{ 3 2	100 250	100	5 6.5	2.3 2.4	100	60	2.3 2.4		
ECH83	541 237 564		6	{ 0.25 0.5	12 12	12	0.7 0.4	1.4 0.7	No Data Available			} B9A	TH
ECH84	441 237 564		6	{ 0 0	50 150	14	3.0 1.7	3.7 2.2	No Data Available				
ECH113	276 454 130		6	{ 2	100 250	90	4.8 3		100	60		} B8A	TH
ECH171	642 544 371		6	{ 2	250 250	75	3 2	0.7	100	60			
ECH8000	541 237 464		6.3	{ 1.5 1.5	100 250	100	11 9	4.2 5	100	60	4.2	} B9A	TH
ECL11	452 371 460		6	{ 2.5 6	250 250	250	2 36	2 9	100	60	2		
ECL80	641 237 154		6	{ 2.3 8	100 200	200	4 17.5	1.4 3.3	100	60	1.4 3	} B9A	TP
ECL81	451 237 614		6	{ 1.9 5.5	150 250	250	1.3 36	1.6 8.7	100	60	1.2		
ECL82	414 237 516		6.3	{ 1 16	200 200	200	3.7 35	2.4 6.4	100	60	2.5 6	} B9A	TP
ECL83	641 237 154		6.3	{ 1.5 9.5	200 200	175	1.6 30	2.5 5.5	100	60	2.5 5		
ECL84	461 237 145		6	{ 1.7 2.0	200 175	175	3 18	4 10.4	100	60	4	} B9A	TP
ECL85	641 237 514		6	{ 0.8 15	100 200	175	5 41	6.5 7.5	100	60	6.5		

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
ECL86	415 237 146		6	1.9 7	250		1.2	1.6	100	60	1.6	B9A	TP
ECL113	267 454 130		6		1	250	250	35	10	100	100		
				3.5	250	250	25	8.5	100	60	1.6	B8A	TP
ECLL800	647 234 115		6.3	9.0 9.0	100		4	0.05	100	60		B9A	TPP
ED111	266 104 430		6.3		5	200	250	26	6.0	100	100		
EDD111	742 301 460		6	8	200		40	8	No Data Available			B8A	T
EDD111	742 311 460		6	8	250		3.5		200		3.5	F8	TT
EE1	023 180 560		6.3	2.5	250	150	8	14	100		2.3	F8	TT
									No Data Available			F8	DP
EE50	256 501 403		6.3	3	250	250	10	14	250	150	10	B9G	P
EE80	*41 231 650		6.3		200	200	10	12.5	No Data Available			B9A	P
EEL71	274 554 631		6.3	6.5	250	250	24	6.5	100	100		B9G	PP
EEL171	542 654 371		6.3	12 2	250	250	40	9	100	100		B8B	PP
EEL171	216 000 300	G1	6.3		2	100	50	3	100	60			
				12	250	250	40	9	100	100		B7	T
EEL171	036 080 200		6.3	2	100	50	2		100	60		AO8	DT
EEP1	023 180 560	G1	6.3	2.5	250	150	8	17	No Data Available			8SC	DP
EEP71	023 110 560	G1	6	3	250	100	8	2.2	100	100		8SC	P
EF1	023 110 560	G1	6	2	250	100	3	2.3	100	100	2.3	8SC	P
EF2	023 110 560	G1	6	2	250	100	4.5	2.2	100	100	2.2	8SC	P
EF2S	023 110 560	G1	6.3	2	250	100	5	1.8	100	100		8SC	P
EF3	023 110 560	G1	6	2.5	250	100	8	1.8	100	100	1.8	8SC	P
EF5	023 110 560	G1	6	3	250	100	8	1.7	100	100	1.7	8SC	P
EF6	023 110 560	G1	6	2	250	100	3	2	100	100	2	8SC	P
EF6N	023 110 560	G1	6.3	2	250	100	3	2.1	100	100	2	8SC	P
EF7	023 110 560	G1	6	1.5	250	100	3	2.1	100	100	2.1	8SC	P
EF8	023 111 560	G1	6	2.5	250	250	8	1.8	100	150	1.8	8SC	P
EF9	023 110 560	G1	6	2.5	250	100	6	2.2	100	100	2.2	8SC	P
EF9N	023 110 560	G1	6.3	2.5	250	100	6	2.2	100	100	2.2	8SC	P
EF11	602 301 450		6	2	250	100	6	2.2	100	100	2	F8	P
EF12	602 301 450		6	2	250	100	3	2.1	100	100	2	F8	P
EF12spec.	602 301 450		6.3	2	250	100	3	1.7	100	100	1.5	F8	P
EF13	612 301 450		6	2	250	100	4.5	2.3	100	100	2	F8	P
EF14	612 350, 140		6	4.5	200	200	12	7	100	150	6	F8	P
EF15	612 301 450		6	2	250	100	12	5.5	100	100	5	F8	P
EF22	265 104 130		6	2.5	250	100	6	2.2	100	100	2.2	B8B	P
EF25	023 110 560	G1	6	2	250	100	5	1.8	100	100	1.8	8SC	P
EF36	026 510 310	G1	6	2	250	100	3	1.8	100	100	1.8	AO8	P
EF37	026 510 310	G1	6	2	250	100	3	1.8	100	100	1.8	AO8	P
EF37A	026 510 310	G1	6	2	250	100	3	1.8	100	100	1.8	AO8	P
EF38	126 510 310	G1	6	2.5	250	250	8	1.8	100	150	1.8	AO8	P
EF39	026 510 310	G1	6	2.5	250	100	6	2.2	100	100	2.2	AO8	P
EF40	26* 145 130		6	2	250	150	3	1.8	100	150	1.8	B8A	P
EF41	261 154 130		6	2.5	250	100	6	2.2	100	100	2.2	B8A	P
EF42	260 154 130		6	2	250	250	10	9.5	100	150	8	B8A	P
EF43	260 154 130		6	2	250	150	15	6.4	100	150	6	B8A	P
EF44	260 145 130		6.3	2	250	150	3	1.8	100	150	1.8	B8A	P
EF50	256 101 403		6	1.5	250	250	10	6.5	100	150	6	B9G	P
EF51	261 154 130		6	2	250	250	14	9.5	100	150	9	B8B	P
EF52	261 154 130		6	2	250	250	10	10	100	150	8	B8G	P
EF53	256 101 403		6	2	250	250	10	6.5	100	150	6.5	B9G	P
EF54	265 114 113		6	1.7	250	250	10	7.7	100	150	7	B9G	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
EF55	256 101 403		6	4	250	150	10	7	100	100	6	B9G	P
EF70	412 163 510		6	2	100	100	3	2.5	100	100	2.5	B8D	P
EF71	412 163 510		6	2	100	100	13	5.5	100	100	4.5	B8D	P
EF72	412 163 510		6	1.4	100	100	7	5	100	100	5	B8D	P
EF73	412 653 160		6	2	100	100	7.5	5.5	100	100	5	B8D	P
EF74	412 653 160		6.3	1.4	100	100	7	3.1	100	100	3	B8D	P
EF80	141 230 651		6	2	200	175	10	7.2	100	100	6	B9A	P
EF81	541 236 000		6.3	2.5	250	125	6	2.2	100	100		B9A	P
EF82	*41 230 651		6	4.5	250	250	40	11	100	150	9	B9A	P
EF83	501 236 014		6.3	1.6	250	50	4	1.6	100	100	2	B9A	P
EF85	141 230 651		6	2	250	100	10	6	150	100	5	B9A	P
EF86	501 236 014		6	2	250	150	3	2.3	100	100	1.8	B9A	P
EF87	501 236 014		6.3	2	250	100	3.3	1.9	100	100		B9A	P
EF88	501 236 014		6.3	2	250	100	7	2.1	100	100		B9A	P
EF89	041 230 651		6	2	250	100	9	3.6	250	100	3.6	B9A	P
EF89F	041 230 651		6.3	20	250	100	11	4.4	100	100	5	B9A	P
EF91	412 361 500		6	2	250	250	10	7.6	100	150	5	B7G	P
EF92	412 361 500		6	2.5	250	200	8	2.5	100	150	2.5	B7G	P
EF93	412 365 100		6	1	250	100	11.6	4.5	150	100	4	B7G	P
EF94	412 365 100		6	1	250	150	10.6	5.2	100	150	5.2	B7G	P
EF95	412 365 100		6	2.3	150	150	7	4.3	100	100	4	B7G	P
EF96	412 365 100		6	1.5	250	150	6.5	5	100	100	5	B7G	P
EF97	412 365 100		6.3	0.7	12	12			No Data Available			B7G	P
EF98	412 365 100		6.3	1	12	12	4.8	3	No Data Available			B7G	P
EF111	612 350 140		6.3	2	250	75	6	2.2	No Data Available			F8	P
EF112	612 350 140		6.3	2	250	100	3	2.1	100	100		F8	P
EF172	112 540 360		6.3	2	250	100	5	3	100	100		B8A	P
EF174	112 540 360		6.3	3.5	200	200	12	9	100	100		B8A	P
EF175	112 540 360		6.3	2.1	250	100	12	4.5	100	100		B8A	P
EF183	141 230 651		6	2	200	90	12	12.5	No Data Available			B9A	P
EF184	141 230 651		6.3	2.5	200	200	10	15	No Data Available			B9A	P
EF186	641 230 651		6.3	0.5	200	50			100	60		B9A	P
EF190	412 365 100		6.3	2	200	150	8.5	6.2	100	100		B7G	P
EF410	26* *54 130		6.3	2	250	100	6	2.7	100	100		B8A	P
EF730	562 603 160		6.3	1	100	100	5.3	3.2	100	100	3.5	B8D	P
EF731	412 163 510		6.3	1.1	100	100	7.2	4.5	100	100	4.5	B8D	P
EF732	412 163 510		6.3	1.5	100	100	7.5	5	100	100	5	B8D	P
EF734	412 163 510		6.3	1.5	100	100	7.5	5	100	100	5	B8D	P
EF762	412 163 510		6.3	1.5	100	100	7.5	5	100	100	5	B8D	P
EF800	141 230 651		6.3	2	200	175	10	7.2	100	100		B9A	P
EF802	141 23* 65*		6.3	1.8	200	175	12	8	100	100		B9A	P
EF804	101 230 654		6.3	2	250	150	3	2	100	100		B9A	P
EF804S	101 230 654		6.3	2	250	150	3	2	100	100		B9A	P
EF805S	141 230 651		6.3	1.8	250	75	8	5.7	100	80		B9A	P
EF806S	501 236 014		6.3		250	150	3.2	2	100	100		B9A	P
EF811	141 230 650		6.3	1.5	200	90	11.5	12.5	No Data Available			B9A	DP
EF812	141 230 651		6.3	1.6	150	150	10	9.2	100	100		B9A	P
EF814	141 230 651		6.3	1.9	150	150	10	15	100	100		B9A	P
EF860	141 230 651		6.3		250	250	10	6.8	100	100		B9A	P
EF861	141 230 615		6.3	1.1	200	150	13	16.5	No Data Available			B9A	P
EF866	501 236 014		6.3	2	250	150	3	2	100	100	2	B9A	P
EF905	412 365 100		6.3	2	150	125	7.5	5	100	100		B7G	P
EF8010	141 230 651		6.3	2	200	100	12	12.5	No Data Available			B9A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
EF8200	141 235 615		6.3		200	150	22	35	No Data Available			B9A	P
EFF50	265 414 573		6	2	250	200	6	8	100	150	7	B9G	PP
EFF51	265 414 573		6	2	250	200	6	8	100	150	7	B9G	PP
EFM1	023 114 560		6	2	250	100	1.3		No Data Available			8SC	TP
EFP20	256 145 130		6.3	2	250	200	5	12	100	100		B8G	P
EFP60	214 156 163		6.3	2	250	150	20	25	100	100		B9G	P
EG420	802 300 000		4				120		REC		30mA	B4	R
EH1	023 145 560	G1	6	2	250	80	3	1.8	200	75	1.8	8SC	P
EH2	023 115 560	G1	6	3	250	100	4.2	1.4	100	100	1.4	8SC	P
EH90	412 365 100		6.3	1	100	30	1	1.1	No Data Available			B7G	H
EH900	412 365 100		6.3	0	150	80	1	1.1	100	90		B7G	H
EH900S	412 365 100		6.3	10	150	75	0.2		100	60		B7G	H
EK1	123 164 570	G1	6	1.5	90		2		80			8SC	O
EK2	023 154 560	G1	6	8.5	250	75	1.6		100	75			
EK2G	026 545 310		6.3	2	250	75	2.8	1.8	100	60	2.1	8SC	O
EK3	023 154 560	G1	6	2	250	75	2.7	1.8	100	60	2.1	AO8	O
EK32	023 154 560	G1	6	2	100	60	11	3.8	100	60	3.8	8SC	O
EK32	026 545 310	G1	6	2	250	75	1.5	1.5	100	60	2.1	AO8	O
EK90	412 365 100		6	2	100		11	7	100		5	B7G	H
EL1	023 100 560	G1	6	18.5	250	250	32	2.6	100	150	2.6	8SC	P
EL2	023 100 560	G1	6	18	250	250	32	2.8	100	150	2.8	8SC	P
EL3	023 104 560		6	6	250	250	36	9	100	150	9	8SC	P
EL3/375	023 104 560		6.3	6	250	250	36	9	100	150	8	8SC	P
EL3/425	023 104 560		6.3	15.6	400	300	25	3	No Data Available			8SC	P
EL3N	023 104 560		6.3	6	250	250	36	9	100	150	8	8SC	P
EL3NG	023 104 560		6.3	6	250	250	36	9	100	100		8SC	P
EL3NG	026 540 310		6.3	6	250	250	36	9	100	150	8	AO8	P
EL5	023 104 560		6	14	250	275	72	8.5	100	150	8.5	8SC	P
EL5/375	023 140 560		6.3	14	250	275	72	8.5	No Data Available			8SC	P
EL5/600	023 114 500	A1	6.3		250	275	72	8.5	100	150	8.5	8SC	P
EL5G	026 540 310		6.3	14	250	275	72	8.5	100	150	8.5	AO8	P
EL6	023 104 560		6	4	250	250	72	14.5	100	150	10	8SC	P
EL6/435	023 104 560		6.3	7.5	250	250	20	5.5	100	100		8SC	P
EL6spec.	023 104 560		6.3	7	250	250	72	14.5	100	150	10	8SC	P
EL8	023 104 560		6.3	7.5	250	250	20	5.5	100	150		8SC	P
EL11	602 301 450		6	6	250	250	36	9	100	150	7	F8	P
EL11N	602 301 450		6.3	6	250	250	36	9	100	150	7	F8	P
EL12	602 301 450		6	7	250	250	72	15	No Data Available			F8	P
EL12/325	602 301 450		6.3	7	250	250	72	18	No Data Available			F8	P
EL12/375	602 301 450		6.3	7	400	250	72	15	No Data Available			F8	P
EL12spec.	502 301 400	A1	6.3	19	400	350	42	10	No Data Available			F8	P
EL13	602 310 450		6.3	7.5	250	250	20	5.5	100	150	5	F8	P
EL20	265 104 130		6	34	300	300	12.5	3.7	100	100		B8B	P
EL22	265 004 130		6	7	250	250	44	9.5	100	150	9	B8B	P
EL30	026 541 310		6.3	4.5	250	250	18	6.5	100	100		AO8	P
EL31	120 540 310	A1	6	9	300	275	91	14	100	150	10	AO8	P
EL32	026 500 310	G1	6	18	250	250	32	2.8	100	150	2.8	AO8	P
EL33	026 540 310		6	6	250	250	36	9	100	150	8	AO8	P
EL33A	026 540 310		6.3	6	250	250	36	9	100	100		AO8	P
EL34	126 540 310		6	13.5	250	250	75	11	100	100	8	AO8	P
EL35	026 540 310		6	15.5	250	250	72	5	100	150	5	AO8	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
EL36	*2* 54* 310	A1	6	8.2	100	100	77	11	100	150	10	AO8	P
EL36	026 540 310		6.3	4	250	250	72	14.5	100	150	10	AO8	P
EL37	026 540 310		6	13.5	250	250	100	11	100	150	10	AO8	P
EL38	120 540 310	A1	6	7	250	250	89	14.3	100	150	10	AO8	P
EL38N	120 540 310	A1	6	7	250	250	89	14.3	100	150	10	AO8	P
EL39	020 541 310	A1	6	3.2	200	125	45	6.5	100	100		AO8	P
EL41	26* *54 130		6	7	250	250	36	10	100	150	8	B8A	P
EL42	261 054 130		6	10.8	225	225	26	3.2	100	150	3.2	B8A	P
EL43	250 154 130		6	3	250	250	36	10	100	150	8	B8A	P
EL44	200 154 130	A1	6	22.5	250	250	20	5	100	150	5	B8A	P
EL50	023 114 500	A1	6	14	250	275	72	8.5	100	150	8	8SC	P
EL51	023 104 500	A1	6		400	300	44	7	100	150	7	8SC	P
EL53	023 104 560		6	7.7	400	250	24	8	100	150	7	8SC	P
EL54	023 140 560		6	12.2	300	300	55	13	No Data Available			8SC	P
EL60	216 005 413		6	14.5	250	250	67	9	100	100	8	B9G	P
EL70	412 163 510		6	9	100	100	31	2.2	100	90	2.2	B8D	P
EL71	412 163 510		6.3	8.5	100	100	30	4	100	100		B8D	P
EL80	541 230 600		6.3	6.5	250	250	36	10	100	150	9	B9A	P
EL81	*41 23* *51	A1	6	38.5	250	250	32	4.6	100	100	2.2	B9A	P
EL81P	*41 23* *51	A1	6.3	38.5	250	250	32	4.6	100	100	2.2	B9A	P
EL82	*41 23* 6*5		6.3	10.4	200	200	54	9	100	100		B9A	P
EL83	541 23* 600		6	5.5	250	250	36	10	100	150	9	B9A	P
EL84	*41 23* 6*5		6	7.3	250	250	48	11.3	100	150	10	B9A	P
EL85	441 231 615		6	10.8	250	225	26	3.2	100	150	3.2	B9A	P
EL86	*41 23* 6*5		6.3	12.5	200	175	70	10	100	100		B9A	P
EL86F	*41 23* 6*5		6.3		200	200	70	10	No Data Available			B9A	P
EL88	041 230 651		6.3	4.5	200	200	33	9.7	100	100		B9A	P
EL89	041 230 651		6.3	6	250	250	38	10.5	100	100		B9A	P
EL90	412 365 400		6	12.5	250	250	45	4.1	100	150	4	B7G	P
EL91	412 360 500		6	13.8	250	250	16	2.6	100	150	2.6	B7G	P
EL95	412 365 400		6.3	9	250	250	24	5	100	100		B7G	P
EL131	126 54* 310		6.3	12	250	250	100	11	No Data Available			AO8	P
EL150	602 301 450		6.3	7	350	250	95	6.5	No Data Available			F8	P
EL152	612 541 300		6.3	33	400	250	50	4	100	100		B7G	P
EL171	102 541 360		6.3	12	250	250	40	9	No Data Available			B8A	P
EL172	102 541 360		6.3	7	250	250	72	15	No Data Available			B8A	P
EL180	141 223 651		6.3	2	250	150	25	12	100	100		B9A	P
EL183	141 226 513		6.3	2.1	200	200	40	25	No Data Available			B9A	P
EL300	521 441 350	A1	6.3	22.5	200	150	100	10	No Data Available			B8A	P
EL360	*2* 540 310	A1	6.3	7.7	100	100	100	14	No Data Available			AO8	P
EL500	441 235 51*	A1	6.3	20	150	150	70	10	No Data Available			B9A	P
EL503	514 231 406		6.3	13.2	250	250	100	23	100	100	16	B9D	P
EL506	541 234 5*6		6.3	10	300	300	60	10.2	No Data Available			B9D	P
EL803	541 231 600		6.3	3.5	200	200	36	10	100	100		B9A	P
EL803S	541 321 600		6.3		200	200	32	10	No Data Available			B9A	P
EL804	041 230 005	A1	6.3	12	200	175	70	10	100	100		B9A	P
EL820	*41 23* *51	A1	6	38.5	250	250	32	4.6	100	150	4	B9A	P
EL821	*41 23* 651		6	4.5	250	250	40	11	100	150	10	B9A	P
EL822	*41 23* 651		6	2.5	250	150	40	13	100	100	10	B9A	P
EL861	041 230 651		6.3		200	200	20	11	No Data Available			B9A	P
EL863	541 231 600		6.3	5.5	250	250	36	11	No Data Available			B9A	P
EL3010	231 145 210	A1	6.3		350	100	100	60	No Data Available			AO8	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
EL5070	*15 231 141	A1	6.3	3	125	125	50	45	No Data Available			B9D	P
EL8000	141 235 615		6.3		250	250	48	50	No Data Available			B9A	P
ELL1	423 174 560		6	20	250	250	15	1.7	100	150	1.8	8SC	PP
ELL80	546 234 175		6.3	9.0	250	250	24	6.0	100	100		B9A	PP
ELP71	023 104 560		6	7	250	250	36	9	100	150		8SC	P
ELP72	023 100 560	G1	6	17	250	250	36	2.5	100	150		8SC	P
ELP73	023 100 560	G1	6	17	250	250	36	2.5	100	150		8SC	P
EMG1	452 361 100		6.3	4.5	20	20	7	4	No Data Available			B7G	P
EQ80	541 236 114		6	1	250	20	0.9	0.7	No Data Available			B9A	N
ER4	002 300 000	D1	4				3		D			B4	D
EW60	280 000 103		6				120		REC		30mA	B9G	R
EY51	023 000 000	D1	6				3		D		B3G	D	
EY70	082 813 080		6				30		REC		17mA	B8D	R
EY80	**1 23* **8		6				120		REC		40mA	B9A	R
EY81	*** 23* **8	C	6.3				120		REC		40mA	B9A	R
EY82	**1 23* **8		6.3				180		REC		50mA	B9A	R
EY83	*** 23* **8	C	6.3						D			B9A	D
EY84	**1 23* ***	D1	6				120		REC		30mA	B9A	R
EY86	23* 232 *32	D1	6				0.8		D			B9A	D
EY87	23* 232 *32	D1	6.3				0.8		D			B9A	D
EY88	*** 23* **8	C1	6.3				120		REC		40mA	B9A	R
EY89	**1 23* **8		6.3				120		REC		30mA	B9A	R
EY91	812 380 000		6				60		REC		20mA	B7G	R
EY92	002 380 100		6.3				60		REC		15mA	B7G	R
EY3000	023 100 000	D1	6.3				120		REC		20mA	8SC	R
EY3000N	023 100 000	D	6.3				120		REC		30mA	8SC	R
EYY13	230 238 090		6.3				120		REC		30mA	F8	RR
EZ1	023 180 090		6				30		REC		15mA	8SC	RR
EZ2	023 180 090		6				30		REC		15mA	8SC	RR
EZ3	023 180 090		6				60		REC		20mA	8SC	RR
EZ4	023 180 090		6				60		REC		20mA	8SC	RR
EZ11	902 300 180		6				30		REC		15mA	F8	RR
EZ12	902 300 180		6				60		REC		20mA	F8	RR
EZ22	208 009 130		6				60		REC		20mA	B8B	RR
EZ33	028 090 310		6				60		REC		20mA	AO8	RR
EZ35	028 090 310		6				30		REC		45mA	AO8	RR
EZ40	280 *09 130		6				30		REC		25mA	B8A	RR
EZ41	280 009 130		6				30		REC		30mA	B8A	RR
EZ80	7*1 23* 6**		6				30		REC		35mA	B9A	RR
EZ81	7*1 23* 6**		6				60		REC		25mA	B9A	RR
EZ82	8*1 23* 9**		6.3				30		REC		15mA	B9A	RR
EZ90	802 309 100		6.3				30		REC		15mA	B7G	RR
EZ91	802 309 100		6.3				30		REC		15mA	B7G	RR
EZ9000	802 309 100		6.3				30		REC		15mA	B7G	RR
F2A11	602 301 450		6.3	6.5	250	250	100	18	No Data Available			F8	P
F5	642 300 000		4	40	300		40	6	100		6	B4	T
F10	642 300 000		4	15	300		30	5.5	100		5.5	B4	T
F100	642 350 000		4	16	250	250	42	2.5	100	150	2.5	B5	P
F109	264 300 000		1.5	14.5	200		6.2	11.5	100		11	UX4	T
F109A	642 300 000		1.5	14.5	200		6.2	1.2	100			B5	T
F109A	264 300 000		1.5	14.5	200		6.3	1.2	100			UX4	T
F203	264 300 000		2.5	50	300		36	2	100			UX4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
F203	642 300 000		2.5	56	300		36	2	150		2	B4	P
F209	642 300 000		2.5	21	250		5.2	0.9	100			B4	T
F209	264 300 000		2.5	21	250		5.2	0.9	100			UX4	T
F209A	642 310 000		2.5	21	250		5	1	100		1	B5	T
F215	264 130 000		2.5	6	150		6.5	2	100		2	UX5	T
F215	642 310 000		2.5	6	150		6.5	2	100		2	B5	T
F242	265 130 000	G1	2.5	1.3	200	100	1.5	0.9	200	100	0.9	UX5	P
F410	642 300 000		4	15	300		13.5	2.8	100		2.8	B4	T
F443	642 350 000		4	30	400	200	45	3.2	100	100	3.2	B5	P
F443N	642 350 000		4	30	400	200	45	3.2	100	100	3.2	B5	P
F460	642 310 000		4	2	250		10	5.5	200		5.5	B5	T
F704	642 300 000		7.5	84	400		55	2.1	100		2.1	B5	T
F707	642 300 000		7.5	84	400		55	2.1	100		2.1	B4	T
F707	264 300 000		7.5	84	400		55	2.1	100		2.1	UX4	T
F708	264 300 000		7.5	44	400		16	1.6	100		1.6	UX4	T
F/7001	412 365 100		6.3		150	125	35	4.8	100	100	4	B7G	P
FC2	645 230 700	G1	2		150	50	2		80		0.4	B7	O
						150	75	0.9	0.2	125	75		
FC2A	645 230 700	G1	2		150	50	1.2		100		0.5	B7	O
						150	50	0.7	0.3	100	75		
FC4	645 231 700	G1	4	4	90	90	2	1	100	90	1.3	B7	O
					4	250	90	1.6	1	250	90		
FC13	023 164 570	G1	13	3	90	75	2	1.3	100		1.5	8SC	O
					2	200	75	2.6	0.6	200	75		
FC13C	645 231 700	G1	13	3	90	75	2	1.3	80	75	1.2	B7	O
					2	200	75	2.6		200	75		
FC141	207 640 530	G1	1.4		90	90	0.5		80	90		MO8	H
FH2118	165 452 300	G1	20	2	200	80	3		100	75		C7	P
FW1	893 200 000		4				30		REC		15mA	B4	RR
FW3	892 300 000		4				60		REC		30mA	B4	RR
FW4/500	982 300 000		4 (5)				120		REC		30mA	B5	RR
FW4/800	982 300 000		4 (5)				60		REC		30mA	B5	RR
FY	642 350 000		4	10	250	250	32	5	100	150	5	B5	P
FZ1	023 180 090		13				30		REC		15mA	8SC	RR
G	264 300 000		5	3	200		0.2		100		0.2	UX4	T
G/6C4	602 364 100		6.3	8.5	250		10.5	2.2	100		3	B7G	T
G/25L6	026 540 310		25	8.2	200	125	46	8	100	90	8	AO8	P
G/50C5	142 345 600		50	7.5	150	100	49	7.5	100	90	6	B7G	P
G84	280 300 000		2.5				60		REC		20mA	UX4	R
G407	642 300 000		4	4	150		4	1.3	100		4	B4	T
G409	642 300 000		4	4	150		4	1.3	100		4	B4	T
G431	892 300 000		4				30		REC		15mA	B5	RR
G459	023 080 090		4				60		REC		20mA	8SC	RR
G460	892 300 000		4				60		REC		20mA	B4	RR
G470	892 300 000		4				30		REC		15mA	B4	RR
G504	892 300 000		4				15		REC		15mA	B4	RR
G660	023 190 080		6.3				30		REC		15mA	8SC	RR
G715	802 300 000		7.5				120		REC		30mA	B4	T
G1054	892 300 000		4				30		REC		15mA	B4	RR
G1064	892 300 000		4				30		REC		20mA	B4	RR
G1380	023 180 090		12				30		REC		15mA	8SC	RR
G1404	802 300 000		4				120		REC		30mA	B4	R
G1503	892 300 000		2.5				30		REC		15mA	B4	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE	
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
G2004	892 300 000		4				60			REC		20mA	B4	RR
G2005	892 300 000		5				60			REC		20mA	B4	RR
G2080	023 100 080		20				60			REC		15mA	8SC	R
G2080	802 310 000		20				60			REC		20mA	B5	R
G2504	892 300 000		4				60			REC		20mA	B4	RR
G3060	123 190 080		30				60			REC		20mA	8SC	RR
G4004	892 300 000		4				120			REC		30mA	B4	R
G4100	802 300 000		4				120			REC		30mA	B4	R
G4120	892 300 000		4				60			REC		20mA	B5	RR
G4120N	892 300 080		4				60			REC		40mA	B4	R
G4150	892 300 000		4				60			REC		20mA	B4	RR
G4180	892 300 000		4				120			REC		30mA	B4	RR
G4300	892 300 000		4				120			REC		30mA	B4	RR
G/5749	412 365 100		6	1	250	100	11	4.4	100	100	4.4	B7G	B7G	P
G/5750	412 366 400		6	2	100		11	7	100		6	B7G	B7G	H
G/6042	461 471 230		25	8	250		9	2.6	100		2.6	AO8	AO8	TT
G/6059	041 230 651		6	3	250	100	2	1.2	100	100	1.2	B7G	B7G	P
G/6060	741 226 413		6	2	250	10	5.5	200			5	B9A	B9A	TT
G/6061	*41 230 651		6	13	300	225	35	3.7	100	150	3.7	B9A	B9A	P
G/6062	601 235 144		6	7.5	250	250	45	7	100	150	7	B9A	B9A	P
G/6066	412 389 600		6	3	250	250	1	1.2	150		1.2	B7G	B7G	DDT
G/6100	602 364 100		6	8.5	250		10.5	2.2	100		3	B7G	B7G	T
G/6132	*41 230 651		6	4.5	250	250	40	11	100	150	9	B9A	B9A	P
G/6157	**1 23* ***	D1	6				120		REC		30mA	B9A	B9A	R
G/6158	644 226 413		6	4.6	250		6	2.3	100		2.3	B9A	B9A	TT
G/6180	461 471 230		6	8	250		9	2.6	100		2.6	AO8	AO8	TT
G/6443	**1 23* ***	D1	6				120		REC		30mA	B9A	B9A	R
G/6516	412 360 500		6	12.5	250	250	16	2.6	100	150	2.6	B7G	B7G	P
GG1	288 009 930		4				30		REC		15mA	B8B	B8B	RR
GN24	892 300 000		4				30		REC		15mA	B4	B4	RR
GR4	892 300 000		4				120		REC		30mA	B4	B4	RR
GT1C	642 310 000		4		200		48	3K	No Data Available			B5	B5	THY
GY11	333 022 200	D1	2.5				30		REC		15mA	F8	F8	R
GZ30	020 908 030		5				60		REC		20mA	AO8	AO8	RR
GZ31	020 908 030		5				120		REC		30mA	AO8	AO8	RR
GZ32	030 809 020		5 (5.7)				60		REC		50mA	AO8	AO8	RR
GZ33	030 809 020		5				120		REC		30mA	AO8	AO8	RR
GZ34	*30 809 020		5				120		REC		30mA	AO8	AO8	RR
GZ37	030 908 020		5 (5.7)				120		REC		40mA	AO8	AO8	RR
GZ40	28* **9 130		5				30		REC		17mA	B8A	B8A	RR
GZ41	28* **9 130		5				30		REC		26mA	B8A	B8A	RR
H2	642 300 000		2	1	150		2.5	0.8	150		0.8	B4	B4	T
H2D	682 390 000	G1	2	1.5	150		3.5	1.3	100		1.3	B5	B5	DDT
H4	642 300 000		4	4	150		4	1.3	125		1.3	B4	B4	T
H4D	216 809 300	G1	4	3	200		4.5	2.7	100		2.5	B7	B7	DDT
H4D	809 231 600	G1	4	2.5	200		5.5	2.7	150		2.7	B7	B7	DDT
H12	642 300 000		2	1.3	100		0.6	1	100		1.2	SM4	SM4	T
H13	023 100 060	G1	13	4	200		6	2.5	100		2.5	AO8	AO8	T
H20	642 310 000		20	1.6	200		0.2	1	100		1	B5	B5	T
H30	000 231 600	G1	13	1.5	250		7.5	6	100		6	B7	B7	T
H42	000 231 600	G1	4	2	250		1	1.5	200		1.7	B7	B7	T
H42	216 000 300	G1	4	2	250		1	1.5	100		1.5	B7	B7	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
H63	020 600 310	G1	6.3	2	250		1	1.6	100		1.5	AO8	T
H141D	206 080 030	G1	1.4	1	90		0.1	0.2	80		0.2	MO8	DT
H210	642 300 000		2	3	150		1.1	1.1	100		1.1	B4	T
H406D	542 300 000	A1	4	1.5	200	75	4	0.8	100	80		B4	P
H407spec.	642 300 000		4	9	150		3.5	0.9	100		0.9	B4	T
H410D	642 300 000		4	3	150		0.5	0.6	100		0.6	B4	T
H412	642 300 000		4	9	150		5	1.2	125		1.2	B4	T
H607	642 300 000		6	1	100			0.4	100		0.4	B4	T
H1818D	542 310 000	A1	20	2	200	100	3	2	100	100		B5	P
H1918D	542 310 000	A1	20	2	200	60	4	1	100	60		B5	P
H2018D	542 310 000	A1	20	2	200	60	4	1	100	60		B5	P
H2518D	542 310 000	A1	20	2.5	250	100	3.5	2	100	100		B5	P
H2618D	542 310 000	A1	20	2.5	250	100	5	2	100	100		B5	P
H4080D	542 310 000	A1	4	1.5	200	75	4	2.5	100	100		B5	P
H4111D	542 310 000	A1	4	2.5	250	100	3.5	2	100	100		B5	P
H4115D	542 310 000	A1	4	2.5	250	100	3.5	2	100	100		B5	P
H4125D	542 310 000	A1	4	2	200	100	6	1	100	100		B5	P
H4128D	542 310 000	A1	4	2.5	250	100	3.5	2	100	100		B5	P
H4129D	542 310 000	A1	4	2.5	250	100	5	2	100	100		B5	P
HAA91	182 310 900		12						D			B7G	DD
HABC80	811 239 146		19	3	250		1	1.2	100		1.3	B9A	DDDT
HAD	908 231 600	G1	13	2.5	200		3.3	2	150		2	B7	DDT
HBC90	412 389 600		12.5	3	250		1	1.2	100		1.2	B7G	DDT
HBC91	412 389 600		12.5	2	250		1.2	1.6	100		1.2	B7G	DDT
HCH81	541 237 464		12.6	2.5	100		4	2	100	60	2	B9A	TH
					250	90	3	0.6	100	90	0.6		
HD2	642 300 000		2	5	200		5	1	150		1	B4	T
HD2	682 390 000	G1	2	2.5	150		3.5	1.3	100			B5	DDT
HD14	036 080 200	G1	1.4	0	90		0.1	0.2	100		0.2	AO8	DT
HD21	682 390 000	G1	2	1.5	150		1.8	1.5	150		1.5	B5	DDT
HD22	682 390 000	G1	2	2	150		1.8	1.5	100		1.5	B5	DDT
HD23	682 390 000	G1	2	1	150		1	1	125		1	B5	DDT
HD23	862 390 000	G1	2	2	150		1	1.4	100		1.4	B5	DDT
HD24	682 390 000	G1	2	1.5	150		0.8	1	100		1.4	B5	DDT
HD30	524 332 600		1.2	75	150	125		1.7	No Data Available			B7G	P
HD93	23* 232 *32	D1	1.2				1		D			B9A	D
HD96	021 040 310	A1	25	22.5	250	150	55	5.5	100	100		AO8	P
HF61	26* *54 130		6.3	2.6	250	100	6	2.2	100	100	2.2	B8A	P
HF62	260 154 130		6.3	2	250	250	10	9	100	150	8	B8A	P
HF85	141 230 651		12.5	2.3	200	125	11.4	6.1	100	90		B9A	P
HF93	412 365 100		12.5	1	250	100	11	4.4	100	100	4.3	B7G	P
HF94	412 365 100		12.5	1	250	250	10.6	5.2	100	100	3.9	B7G	P
HF121	26* 054 130		12.5	3	200	125	1.2	2.3	100	100	2	B8A	P
HK90	412 365 100		6.3	0	100	100	11	7	100		5	B7G	H
HL2	642 300 000		2	1.5	150		2.2	1.5	150		1.5	B4	T
HL2	023 004 060		2	1.5	150		2.2	1.5	150		1.5	8SC	T
HL2K	642 300 000		2	1.5	150		2.2	1.5	150		1.5	B4	T
HL2S	023 004 060		2	1.5	150		2.2	1.5	150		1.5	8SC	T
HL3	206 040 030		2	1.5	125		0.5	1.5	125		1.5	MO8	T
HL4	642 310 000		4	4.5	250		5	3.5	150		3.5	B5	T
HL4†	642 310 000		4	4.5	250		5	4.9	100		5	B5	T
HL4G	000 231 600	G1	4	4.5	250		5	3.5	150		3.5	B7	T
HL4GS	023 100 060	G1	4	4.5	250		5	3.5	150		3.5	8SC	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
HL13	023 100 060	G1	13	13.7	200		5	3.3	150		3	8SC	T
HL13	000 231 600	G1	13	2.7	200		6	3.5	150		4	B7	T
HL13C	000 231 600	G1	13	3.7	200		5	3.3	150		4	B7	T
HL13G	023 004 060	G1	13	5.5	250		6	2.5	150		2.5	8SC	T
HL13S	023 100 060	G1	13	3	200		6	3.5	150		3.5	8SC	T
HL21	642 300 000		2	3	150		1.7	1.5	125		1.5	B4	T
HL21DD	682 390 000	G1	2	2	150		2	1.3	125		1.3	B5	DDT
HL22	206 040 030		2	2	150		2	1.3	125		1.3	MO8	T
HL22DD	206 080 930	G1	2	2	150		2	1.3	125		1.3	MO8	DDT
HL23	206 040 030		2	1.5	150		1.5	1.2	100		1.2	MO8	T
HL23DD	206 080 930	G1	2	1.5	150		0.6	1.2	100		1.2	MO8	DDT
HL41	216 040 030		4	3.1	250		2.2	3.4	150		3.1	MO8	T
HL41DD	216 090 830	G1	4	3.1	250		2.2	2.6	100		2.4	MO8	DDT
HL42DD	216 090 830	G1	4	0.2	200		2.8	2.9	100		2.5	MO8	DDT
HL84	*41 23* 6*5		30	12.5	200	175	70	10	100	100		B9A	P
HL90	412 365 400		19	12.5	250	250	45	4.1	100	150	4	B7G	P
HL92	142 345 600		50	7.5	150	125	49	7.5	100	100	7	B7G	P
HL94	142 345 600		30	6.7	100	100	43	9.2	100	100	9.2	B7G	P
HL133	216 000 030	G1	13	3.3	200		6	2.9	200		2.9	MO8	T
HL133DD	216 090 830	G1	13	2.5	200		1.5	2.5	150		2.3	MO8	DDT
HL134DD	216 080 930	G1	13	5	250		7	2.5	100		2.5	MO8	DDT
HL135	023 100 060	G1	13	3	200		6	3.5	150		3.5	8SC	T
HL210	642 300 000		2	1	100		1.1	0.7	100		1	B4	T
HL410	642 300 000		4	6	150		1.2	0.8	150		0.8	B4	T
HL607	642 300 000		6	1	100			1	100		1	B4	T
HL1320	000 231 600	G1	13	3.3	200		6	3	150		3	B7	T
HLA1	642 310 000		4	1	200		5	8	200		7	B5	T
HLA2	642 310 000		4	2.5	200		6	5.5	150		5.5	B5	T
HLB1	642 300 000		2	3	150		2	1.5	100		1.5	B5	T
HL/DD1320	809 231 600	G1	13	3	200		4.3	1.9	100		1.9	B7	DDT
HM20	642 310 000		20	3.3	250		6	2.5	100		2.3	B5	T
HN309	641 237 154		12	{ 2	250		2.8	2.2	100	60	2	B9A	TP
HP2	446 230 700		2	{ 9	150	150	24	5.6	150	150	5.6		
HP6	412 361 500		6	{ 1	150		8.5		125			B7	TT
HP13	061 231 600	G1	13	{ 2	250	250	10	7.5	100	150	5		
HP13S	023 110 560	G1	13	{ 1.5	200	150	4	6.4	100	150	5	B7G	PP
HP210	542 300 000	A1	2	{ 1	250	100	8	3.5	250	100	3.5		
HP210	041 230 500	A1	2	{ 1	250	100	8	3.5	250	100	3.5	B7	P
HP210C	041 230 500	A1	2	{ 1	250	100	8	3.5	250	100	3.5	8SC	P
HP210NC	542 300 000	A1	2	{ 1.5	150	150	1.9	1.9	150	150	1.9	B4	P
HP210NC	041 230 500	A1	2	{ 1	150	150	1.9	1.9	150	150	1.9	B7	P
HP211	041 230 500	A1	2	{ 1	150	150	2.6	1.7	150	150	1.7	B7	P
HP211C	041 230 500	A1	2	{ 1	150	150	2.6	1.7	150	150	1.7	B7	P
HP211C	542 300 000	A1	2	{ 1	150	150	2.6	1.7	150	150	1.7	B4	P
HP215	542 300 000	A1	2	{ 1.5	150	80	1.5	1.2	150	75	1.2	B4	P
HP215	041 230 500	A1	2	{ 1.5	150	80	1.5	1.2	150	75	1.2	B7	P
HP415	041 231 500	A1	4	{ 2	250	100	8	2.7	100	100	2.7	B7	P
HP1018	160 152 300	G1	10	3	250	100	2.3	1.3	100	150	1.3	B7	P
HP1118	160 152 300	G1	10	3	250	100	8.2	1.6	100	100	1.6	B7	P
HP2018	542 310 000	A1	20	2	200	100	4	3.5	100	100	3.5	B5	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
HP2018	041 231 500	A1	20	2	200	100	4	3.5	200	100	2.5	B7	P
HP2118	041 230 500	A1	20	2	200	100	5	3.5	100	100	3.5	B7	P
HP2118	542 310 000	A1	20	2	200	100	5	3.5	100	100	2.5	B5	P
HP4100	542 310 000	A1	4	2	200	100	3	3.5	100	100	3.5	B5	P
HP4101	041 231 500	A1	4	2	200	100	3.5	3.5	100	100	3.5	B7	P
HP4101	542 310 000	A1	4	2	200	100	3.5	3.5	100	100	3.5	B5	P
HP4101C	542 310 000	A1	4	2	200	100	3.5	2.8	100	100	2.8	B5	P
HP4101C	041 231 500	A1	4	2	200	100	3.5	2.8	100	100	2.8	B7	P
HP4105	542 310 000	A1	4	2	250	100	4.5	3	100	100	3	B5	P
HP4105	041 231 500	A1	4	2	250	100	4.5	3	100	100	3	B7	P
HP4106	041 231 500	A1	4	2	200	100	5	3.5	100	100	3.5	B7	P
HP4106	542 310 000	A1	4	2	200	100	5	3.5	100	100	3.5	B5	P
HP4106C	041 231 500	A1	4	2	200	100	5	3.5	100	100	3.5	B7	P
HP4106C	542 310 000	A1	4	2	200	100	5	3.5	100	100	3.5	B5	P
HP4115	041 231 500	A1	4	2	200	100	4.3	2.2	100	100	3.2	B7	P
HP4115	542 310 000	A1	4	2	200	100	4.3	3.2	100	100	3.2	B5	P
HP4115C	542 310 000	A1	4	2	250	100	4.5	3.2	100	100	3.2	B5	P
HP4115C	041 231 500	A1	4	2	250	100	4.5	3.2	100	100	3.2	B7	P
HPT	412 361 500		6	2	250	250	10	7.5	100	150	5	B7G	P
				1.5	200	150	4	6.4	100	150	5		
HR1	2** 3** *00	D1	0.6				0 05		D			B7G	D
HR2	642 300 000		2	2	150		12	0.6	125		0.6	B4	T
HR2	112 311 100	D1	4				5		D			B7G	R
HR2S	023 004 060		2	2	150		1.2	0.6	125		0.6	8SC	T
HR3	112 311 100	D1	4				15		REC		10mA	B7G	R
HR4	112 311 100	D1	4				30		REC		15mA	B7G	R
HR5	112 311 100	D1	4				30		REC		15mA	B7G	R
HR6	030 000 020	D1	4				60		REC		20mA	AO8	R
HR7	020 000 030	D1	4				30		REC		15mA	AO3	R
HR8	030 000 020	D1	4				30		REC		15mA	AO8	R
HR11	020 000 030	D1	4						D			AO8	D
HR210	642 300 000		2	1.5	200		1	1.3	150		1.3	B4	T
HR406	642 300 000		4	3	200		1	1.5	150		1.5	B4	T
HR410	641 300 000		4	3	200		1	1.5	150		1.5	B4	T
HSD	809 231 600	G1	13	3	200		6	2.7	150		2.3	B7	DDT
HVR1	002 300 000	D1	2				5		REC			B4	R
HVR2	003 200 000	D1	4				3		REC		2mA	B4	R
HVR2A	003 200 000	D1	2 (2.5)				3		REC		2mA	B4	R
HVU1	002 300 000	D1	4				3		D			B4	R
HY24	264 300 000		2	45	200		20		100			UX4	T
HY61	254 130 000	A1	6	14	300	250	83	6.5	No Data Available			UX5	P
HY65	030 540 210	A1	6	45	350	200	63		100	100		AO8	P
HY90	002 383 100		27.5				60		REC		25mA	B7G	R
HY113	264 030 000		1.4	4.5	60		0.4	0.2	No Data Available			UX5	T
HY125	364 520 000		1.4	3	60	50	0.9	0.3	No Data Available			UX5	P
HY615	020 000 310	A1/G1	6	35	300		20		100			AO8	T
HY866	280 300 000		2.5				120		REC		30mA	UX4	R
HZ50	280 300 000		13				60		REC		20mA	UX4	R
IF860	141 230 651		20		200	200	8.5	6.6	100	100		B9A	P
IL861	041 230 651		20		200	200	20	11	100	100		B9A	P
IRV120/350S	023 180 090		4				60		REC		20mA	8SC	RR
IW2	893 200 000		4				30		REC		40mA	B4	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
IW2A	892 300 000		4				30			REC	40mA	B4	RR
IW3	892 300 000		4				60			REC	50mA	B4	RR
IW4	892 300 000		4				60			REC	40mA	B4	RR
IW4/350	892 300 000		4				60			REC	40mA	B4	RR
IW4/500	893 200 000		4 (5)				60			REC	20mA	B4	RR
K4	892 300 000		4				120			REC	30mA	B4	RR
K23A	682 390 000	G1	2	5.5	150		2.5	1.4	100		1.4	B5	DDT
K23B	682 390 000	G1	2	1.5	150		1.4	1.2	150		1.2	B5	DDT
K24	265 130 000	G1	2.5	1.5	200	75	2	0.8	100	75	0.8	UX5	P
K27	264 130 000		2.5	4.5	90		3	1	80		1	UX5	T
K30A	642 300 000		2	3	150		1.5	0.8	150		0.8	B4	T
K30B	642 300 000		2	7.5	150		4	0.9	100		0.9	B4	T
K30C	642 300 000		2	1.5	150		2	1.4	100		1.4	B4	T
K30D	642 300 000		2	3	150		4	1.5	100		1.5	B4	T
K30E	642 300 000		2	4.5	150		2	1.5	100		1.5	B4	T
K30G	642 300 000		2	7	150		6	3.5	100		3.5	B4	T
K30K	642 300 000		2	1.5	150		2.2	1.4	100		1.5	B4	T
K33A	064 234 700		2	0	150		3		150			B7	TT
K33B	446 230 700		2	1.5	125		3	2.1	125		2.1	B7	TT
K40B	542 300 000	A1	2		150	75	2	1.5	100	75	1.5	B4	P
K40N	542 300 000	A1	2		150	90	2.5	1.4	100	90	1.4	B4	P
K40N	041 230 500	A1	2		150	90	2.5	1.4	100	90	1.4	B7	P
K50M	041 231 500	A1	2	5	150	125	3	1.5	100	100	1.5	B7	P
K50N	064 235 500	G1	2	1.5	150	60	2	1.4	125	60	1.4	B7	P
K70B	642 350 000		2	4.5	150	150	9.5	2.5	100	100	2.5	B5	P
K70D	642 350 000		2	2.4	150	150	5	4	100	100	4	B5	P
K77A	465 230 574		2	10.5	150	150	2.5	4	100	100	4	B9	PP
K77B	446 235 700		2	11.7	150	150	3.8		100	100		B7	PP
K80A	645 230 700	G1	2		150	50	2		80	60	0.4	B7	O
					150	75	1		127	75	0.8		
K80B	645 230 700	G1	2	150	150	2.1		100	60	0.1	B7	O	
				150	150	0.7		100	75	1			
K435/10	642 300 000		4	3	300		50	5	100		5	B4	T
K450/50	642 300 000		4	50	400		120	5	100		5	B4	T
K1658	542 310 000	A1	7	25	400	225	50	3.2	No Data Available			B5	P
K1668	542 310 000	A1	7	25	400	225	50	3.2	No Data Available			B5	P
K1678	542 310 000	A1	7	25	400	225	50	3.2	No Data Available			B5	P
K1694	642 300 000		4	3.5	200		6	2.6	100		2.4	B4	T
KBC1	023 098 060	G1	2	4.5	150		2.5	1	100		1	8SC	DDT
KBC32	036 980 200	G1	2		100		2.4	1.2	100		1.2	AO8	DDT
KC1	023 004 060		2	1.5	150		1.2	0.6	125		0.6	8SC	T
KC3	023 004 060		2	2.8	150		3	2.5	100		2.5	8SC	T
KC4	023 004 060		2	1.5	150		2.2	1.4	125		1.4	8SC	T
KC50	642 300 000		2	1	40		0.2	0.4	No Data Available			SM4	T
KC51	642 300 000		2	2	40		1.2	0.5	No Data Available			SM4	T
KCF30	037 546 200	G1	2	1.0	100		3.7	1.6	100	60	1.7	AO8	TP
				2.5	150	80	1.5	0.9	100	75	0.9		
KCH1	023 064 570	G1	2	0.5	90		3	1.5	80	60	1.5	8SC	TH
				5	90	60	1	0.9	100	60	0.9		
KD50	642 300 000		2	2.8	40		1.8	0.6	No Data Available			SM4	T
KDD1	023 074 460		2		90		0.8	0.8	80		0.8	8SC	TT
KE50	542 300 000	A1	2	2	150	50	0.8	0.6	100	60	0.6	Sm4	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE	
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
KF1	050 412 300	A1	2	1	150	150	3	1.8	125	150	1.8	C7	P	
KF2	050 412 300	A1	2	1	150	150	3	1.3	123	150	1.3	C7	P	
KF3	023 010 560	G1	2	1	90	90	1	0.5	80	90	0.5	8SC	P	
KF4	023 010 560	G1	2	1	90	90	1.2	0.7	80	90	0.7	8SC	P	
KF7	023 004 500	A1	2	1.5	90	90	1.8	0.7	80	90	0.7	8SC	P	
KF8	023 004 500	A1	2	1	90	90	1.5	0.6	80	90	0.6	8SC	P	
KF35	026 510 300	G1	2	1.5	150	60	1.4	1.1	125	60	1.1	AO8	P	
KH1	023 051 560	G1	2	1.5	90	60	2.1	1.4	80	60	1.4	8SC	P	
KK2	023 064 560	G1	2	1	90	50	2		80	60		8SC	O	
KK2G	026 546 300	G1	2	1	90	50	2		80	60		AO8	O	
KK32	037 546 200	G1	2	}	150	50	2.1		150	60	2.1	}	AO8	O
KL1	642 350 000		2		4.5	90	90	8	1.7	80	75		1.7	B5
KL1	032 004 560		2	4.5	90	90	8	1.7	80	75	1.7	8SC	P	
KL2	023 004 560		2	7.5	90	90	11	1.8	80	75	1.8	8SC	P	
KL4	023 004 560		2	2.5	100	100	5	2	80	75	2.8	8SC	P	
KL4G	036 540 200		2	2.5	90	90	4.7	1.8	80	75	2.8	AO8	P	
KL5	032 004 560		2	4	90	90	4.8	1.4	80	75	1.4	8SC	P	
KL35	036 540 200		2	4.5	150	150	5.6	2.2	100	100	2.2	AO3	P	
KLL3	423 564 570		2	12	150	150	8		100	100		8SC	PP	
KLL32	026 447 350		2	11.3	150	150	3.8	2.6	100	100	2.6	AO8	PP	
KR5	264 530 000		6	9	150	150	14	1.9	100	100	1.9	UX5	P	
KR20	264 413 000		2.5		250		3.5	1.4	250		1.4	UX6	T	
KR22	264 413 000		6		250		3.5	1.4	250		1.4	UX6	T	
KR25	264 413 000		2.5	16.5	250	250	34	2.2	100	150	2.2	UX6	P	
KR28	289 130 000		6				30		REC		15mA	UX5	RR	
KR31	281 300 000		10				120		REC		30mA	UX4	R	
KT2	642 350 000		2	4.5	150	150	7.5	2.5	100	100	2.5	B5	P	
KT8	542 310 000	A1	6	16	250	250	72	6	100	100	6	B5	P	
KT8C	542 310 000	A1	6	16	250	250	72	6	100	150	6	B5	P	
KT16	026 540 230		1.4	4.5	90	90	8.8	1.9	No Data Available			AO8	P	
KT21	642 350 000		2	2.5	150	125	5.3	5.3	100	100	5.3	B5	P	
KT24	642 350 000		2	3.5	150	125	5	3.2	100	100	3.2	B5	P	
KT30	045 231 600		13	12	250	250	40	3.9	100	150	3.9	B7	P	
KT31	305 221 600	G1	13	4	200	175	40	10	100	150	9	B7	P	
KT32	026 540 310		26	7.6	150	150	75	9	100	100	8	AO8	P	
KT33	326 540 210		13	13.2	200	200	60	10	100	100	9	AO8	P	
KT33C	326 540 210		13	7	200	175	92	10	100	100	9	AO8	P	
KT35	326 540 210		13	11.5	200	200	50	10	100	100	9	AO8	P	
KT36	020 540 310	A1	26	10	150	150	60	11	100	100	10	AO8	P	
KT41	045 231 600		4 (5)	4.4	250	250	40	10.5	100	150	9	B7	P	
KT42	045 231 600		4	16.5	250	250	34	2.5	100	150	2.5	B7	P	
KT44	041 231 500	A1	4 (5)	25	250	250	85	6.3	100	150	6.2	B7	P	
KT45	041 231 500	A1	4	25	250	250	85	6.3	100	150	6.3	B7	P	
KT55	*26 540 310		52	15	150	150	88	16	No Data Available			AO8	P	
KT61	026 540 310		6	4.4	250	250	40	10.5	100	150	9	AO8	P	
KT63	026 540 310		6	16.5	250	250	34	2.5	100	150	2.5	AO8	P	
KT66	026 540 310		6	15	250	250	65	6.3	100	150	6	AO8	P	
KT67	256 001 403		6	9	250	175	80	13	100	100	10	B9G	P	
KT71	026 540 310		43	9.8	200	175	70	10	100	100	9	AO8	P	
KT72	026 540 310		16	12.5	200	175	30	2.5	100	100	2.5	AO8	P	

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
KT78	026 540 310		6	4.5	200	175	35	2.5	100	100	2.5	AO8	P
KT74	026 540 310		16	12.5	200	175	30	2.5	100	100	2.5	AO8	P
KT76	026 540 310		15	13	200	175	35	2.5	100	100	2.5	AO8	P
KT77	026 540 310		6.3		250	250	100	11.5	100	100		AO8	P
KT81	265 004 130		6	4.4	250	250	40	10.5	100	150	9	B8B	P
KT88	026 540 310		6	20	250	250	57	8	No Data Available			AO8	P
KT101	265 004 130		80	9.5	200	175	70	10	100	100	9	B8B	P
KTW61	026 510 310	G1	6	4	250	100	10	2.9	100	90	2.9	AO8	P
KTW62	026 500 310	G1	6	3	250	100	8	2.8	100	100	2.8	AO8	P
KTW63	026 510 310	G1	6	3	250	100	7.6	1.5	100	90	1.5	AO8	P
KTW73	026 510 310	G1	6	3	250	100	6.5	1.7	100	90	1.7	AO8	P
KTW73M	026 500 310	G1	6	3	250	100	6.5	1.7	100	100		AO8	P
KTW74	026 510 310	G1	13	3	250	100	7.6	1.5	100	90	1.7	AO8	P
KTW74M	026 500 310	G1	13	3	250	100	7.6	1.5	100	100		AO8	P
KTZ41	061 231 500	G1	4	1.5	250	250	18	12	200	200	10	B7	P
KTZ63	026 510 310	G1	6	3	250	100	2	1.2	100	100	1.2	AO8	P
KTZ73	026 500 310	G1	6	3	250	100	2	1.5	100	90	1.5	AO8	P
KTZ73M	026 500 310	G1	6	3	250	100	2	1.5	100	100		AO8	P
KZ	802 310 000		20				60		REC		20mA	B5	R
L2	642 300 000		2	4.5	150		9	1.6	150		1.6	B4	T
L2/B	642 300 000		2	3.8	150		4	1.5	125		1.5	B4	T
L2D	642 310 000		2	4.5	150		2	1.5	100		1.5	B5	T
L2/DD	682 390 000	G1	2	3.8	150		4	1.6	100		1.6	B5	DDT
L4	642 300 000		4	16	250		20	3.2	100		3.2	B4	T
L11	642 300 000		1	12	100		2.8	0.6	100		0.6	B4	T
L12	642 300 000		2	3	40		2.2	0.8	No Data Available			Sm4	T
L21	642 300 000		2	6	150		3.2	1.8	100		1.8	B4	T
L21DD	682 390 000	G1	2	3	150		5.2	1.8	100		1.8	B5	DDT
L22DD	206 080 930	G1	2	4.2	150		4	1.6	100		1.6	AO8	DDT
L30	042 231 600		13	8	200		25	4.2	100		4.2	B7	T
L42MD	642 350 000		4	20	250	250	22	2.5	100	100		B5	P
L63	026 040 310		6	8	250		9	2.6	100		2.6	AO8	T
L77	6*2 364 100		6	8.5	250		10.5	2.2	100		2.2	B7G	T
L210	642 300 000		2		150			0.9	100		0.9	B4	T
L408	642 300 000		4	3	150		5	1.5	125		1.5	B4	T
L410	642 300 000		4	4	150		4.3	1.5	100			B4	T
L412	642 300 000		4	1.5	200		3	1.2	100		1.2	B4	T
L413	642 300 000		4	16	200		12	1.8	100		1.6	B4	T
L414	642 300 000		4	8	150		12	2.8	100		2.8	B4	T
L415	642 300 000		4	10	200		8	2	100		2	B4	T
L416D	643 200 000	G2	4	13	250	80	12	1.4	100	75		B4	P
L427D	642 350 000		4	42	300	200	20	1.5	100	100		B5	P
L486D	642 350 000		4	15	250	250	36	2.7	100	150	2.7	B5	P
L491	642 350 000		4	40	400	200	30	1.8	No Data Available			B5	P
L495	842 350 000		4	30				5				B5	D
L497D	642 350 000		4	30	400	200	45	3.2	No Data Available			B5	P
L510D	642 350 000		5	17	200	150	12	1.3	100	100		B5	P
L2318	642 350 000		20	18	200	200	20	1.7	100	100		B5	P
L4150D	642 310 000	G1	4	15	250	250	24	2.5	100	100		B5	P
LA	364 520 000		6	12	200	175	22	2.2	100	100	2.2	UX5	P
LD210	642 300 000		2	4.5	150		3	1.3	125		1.3	B4	T
LD410	642 300 000		4	6	200		4	1.8	100		1.8	B4	T

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
LG5	218 090 130		6				120			REC	30mA	AO8	RR
LG6	218 090 130		12				30			REC	15mA	B8B	RR
LG14	123 000 000	D1	6				5			D		B3G	R
LK430	642 300 000		4	32	250		20	1.9	100			B4	T
LK460	642 300 000		4	40	250		30	2.2	No Data Available			B4	T
LK4110	642 300 000		4	36	400		30	2.7	No Data Available			B4	T
LK4112	642 300 000		4	21.6	250		48	3.5	No Data Available			B4	T
LK4200	642 300 000		4	36	400		45	4	No Data Available			B4	T
LL2	642 300 000		2	2.5	150		3	2.5	125		2.6	B4	T
LL2S	023 004 060		2	2.5	150		3	2.6	125		2.6	8SC	T
LL4	642 310 000		4	10	350		18	3.5	125		3.5	B5	T
LL610	642 350 000		5	17	200	150	12	1.3	No Data Available			B5	P
LN119	414 237 516		50	{ 0	100		3.5	2.5	100	60	2.5	} B9A	TP
				{ 16	200	200	35	6.4	100	100			
LN152	641 237 154		6	{ 2.3	100		4.0	1.4	100	60	1.4	} B9A	TP
				{ 6.7	200	175	15.0	3.2	100	100	3.0		
LN309	641 237 154		12.5	{ 8.5	250		10.5	2.2	100	60	2.0	} B9A	TP
				{ 8.0	200	175	30	4.5	100	100	4.0		
LN319	641 237 154		13	{ 200	200		10	3.4	100	60	3.4	} B9A	TP
				{ 9	200	175	32	6.5	100	100			
LN329	645 237 114		9	{ 2	100		14	5	100	60	6	} B9A	TP
				{ 2	200	175	10	6.2	100	100			
LP2	642 300 000		2	4.5	150		10	3.6	100		3.6	B4	T
LP4	642 380 000		4	36	250		48	5.5	100		5.5	B4	T
LP25	642 300 000		4	31	400		50	7.5	100		6.9	B4	T
LP220	642 300 000		2	4.5	150		5	3.5	100		3.5	B4	P
LS5	642 300 000		4.7	47	400		25		No Data Available			B4	T
LS5A	642 300 000		5.2		400		33	0.9	No Data Available			B4	T
LS6A	642 300 000		6	91	400		64	2.3	No Data Available			B5	T
LS7	642 300 000		4	4	150		21	2.4	100		2.4	B5	T
LS8	642 300 000		4	8	150			1.3	100			B4	T
LS8A	742 300 000		4	8	150		26	3	No Data Available			B4	T
LS9B	642 300 000		2	1.5	150		8	0.6	100		0.6	B4	T
LS826	246 310 000		6.3	1.1	100		7.5	5	100		5	B5B	T
LU4A	642 300 000		4	16	200		12	1.8	100		1.6	B4	T
LZ319	645 237 114		9	{ 2	100		14	5	100	60	5	} B9A	TP
				{ 2	200	175	10	6.2	100	100	5		
L496D	642 350 000							5				B5	D
LZ329	645 237 114		9	{ 2.0	100		14	5	100	60	5.0	} B9A	TP
				{ 2.0	200	175	10	6	100	100	5.0		
M0465	645 231 700	G1	4	{ 75			2		80			} B7	O
				{ 1.5	250	75	21.6		100	75			
M0495	123 174 560	G1	4	{ 1.5	90				80			} 8SC	O
				{ 8.5	250	75	1.6		100	75			
M3057	041 230 651		6.3	4.5	200	200	30	9	100	100		B9A	P
M8079	192 310 800		6				5		D			B7G	RR
M8060	602 364 100		6	8.5	250		10.5	2.2	100		3	B7G	T
M8081	672 344 100		6	0.8	100		8.5	5.3	100		5.3	B7G	TT
M8082	412 360 500		6	12.4	250	250	16	2.6	No Data Available			B7G	P
M8083	412 361 500		6	{ 2	250	250	10	7.65	100	150	5.0	} B7G	P
				{ 1.5	200	150	4	6.4	100	150	5.0		
M8091	**1 23* ***	D1	6.3				120		REC		30mA	B9A	R
M8096	601 235 144		6	7.5	250	250	45	7	100	150	7	B7A	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
M8C97	812 314 600		6	2.8	200		7.5	2.8	100		2.8	B7G	DT
M8C99	412 314 600		6	2	250		6	8.5	200		8	B7G	T
N8100	412 365 100		6	2.3	150	150	7	4.3	No Data Available			B7G	P
M8101	412 365 100		6	1	250	100	11	4.4	250	100	4.4	B7G	P
M8121	412 163 510		6	1.4	100	100	7	5	100	100	5	B8D	P
M3122	412 653 160		6	2	100	100	7.5	5	100	100	5	B8D	P
M8123	281 380 000		6				5		D			B8D	R
M8125	412 163 510		6	2	100	100	3	2.5	100	100	2.3	B8D	P
M8135	412 3** 651		6	4.5	250	250	40	11	100	150	10	B9A	P
M8136	741 226 413		6.3	8.5	250		8.5	2.2	100		2	B9A	TT
M8137	741 226 413		6	2	250		1.2	1.6	100		1.6	B9A	TT
M8138	802 309 100		6				30		REC		15mA	B7G	RR
M8156	462 603 160		6	2	100		13	5.5	100		5.5	B8D	T
M8157	265 511 413		6	30	300	250	25	1.9	100	100	1.9	B9G	P
M8161	412 361 500		6	2.5	250	200	8	2.5	100	150	2.5	B7G	P
M8162	741 226 413		6	1.5	200		8.5	6.5	200		8.5	B9A	TT
M8178	402 013 060		6.3		100		8.5	5.8	100		5.8	B8D	T
M8195	501 236 014		6.3	1	250	100	3	1.8	100	100	1.8	B9A	P
M8196	412 265 100		6.3	2	150	125	5.5	3.5	100	100	3	B7G	P
M8212	182 310 900		6.3				5		D			B7G	RR
M8215	412 365 400		6.3	12.5	250	250	45	4.1	100	150	4	B7G	P
M8248	412 344 600		6.3	1.35	150		13.5	13.5	No Data Available			B7G	T
MAZ41	*8* **9 23*		4				30		REC		15mA	AO8	RR
MC1	423 060 000		1.9	1.5	100		4	0.8	100			8SC	T
ME2	642 350 000		2	12	200	200	13		100	100		B5	P
ME23	642 350 000		4	30	400	300	60		100	100		B5	P
ME1400	026 510 310	G1	6.3	2	250	100	1	1.8	100	100	1.8	AO8	P
MH4	642 310 000		4	2	200		8	3	100		3.6	B5	T
MH40	642 310 000		4	3	200		2.7	2.4	100		2.4	B5	T
MH41	642 310 000		4	1.5	200		5.2	6	200		6	B5	T
MH206	645 230 600	G1	2	3	150	75	3.2		100	75		B7	H
MH1118	645 231 600	G1	10	3	200	100	3.5		100	90	0.6	B7	H
MH4105	645 231 600	G1	4	3	200	100	7.5		100	100		B7	H
MHD4	908 231 600	G1	4	4	200		2	1.9	100		1.9	B7	DDT
MHL4	642 320 000		4	8	250		8	2.5	100		2.5	B5	T
MHLD6	026 890 310	G1	6	5	200		11.5	3	100		3	AO8	DDT
MKT4	045 231 600		4	11	250	200	32	3	100	100	3	B7	P
MKT4	642 310 000	G2	4	11	250	200	32	3	100	100	3	B5	P
ML4	642 310 000		4	16	250		14	3.2	100		3.2	B5	T
ML6	642 310 000		6	8	200		24	3.8	100		3.8	B5	T
ML40	642 310 000		4	3	200			3	100		3	B5	T
MM4V	542 310 000	A1	4	1.5	200	125	6	2.5	100	100	2.5	B5	P
MM20	542 310 000	A1	20		200	100	6	3.5	100	100	3.5	B5	P
MP2	642 300 000		2	12	150		12.5	3	100		3	B4	T
MP4	067 231 500	G1	4		250	150	8	2.5	100	100	2.5	B7	PP
MP/Pen	045 231 600		4	16	250	250	3	3.5	100	100	3.5	B7	P
MP/Pen	642 310 000	G2	4	16	250	250	30	3.5	100	100	3.5	B5	P
MPT4	045 231 600		4	9	250	200	32	3	100	100	3	B7	P
MPT4	642 310 000	G1	4	9	250	200	32	3	100	100	3	B5	P
MR1	802 300 000		4				120		REC		30mA	B4	R
MR4	642 300 000		4	3	200		6	2.5	150		2.5	B4	T
MS4	542 310 000	A1	4	1.5	250	75	2.4	1.1	250	75	1.1	B5	P
MS4B	542 310 000	A1	4	1	200	75	3.4	3	100	75	3	B5	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
MS4C	542 310 000	A1	4	1	200	75	3.4	3.2	200	75	3.2	B5	P
MSG/HA	542 310 000	A1	4	1.5	200	80	2.1	2	100	75	2	B5	P
MSG/LA	542 310 000	A1	4	1.5	200	75	5.2	3.7	100	75	3.7	B5	P
MSP4	041 231 500	A1	4	1.8	200	100	3.4	2.4	100	75	3.5	B7	P
MSP4	542 310 000	A1	4	1.8	200	100	3.4	2.4	100	75	3.5	B5	P
MSP41	542 310 000	A1	4	4	250	250	8.5	3.2	100	150	3.2	B5	P
MSP41	041 231 500	A1	4	4	250	250	8.5	3.2	100	150	3.2	B7	P
MS/Pen	041 231 500	A1	4	1.5	200	100	4.8	2.8	100	100	2.8	B7	P
MS/Pen	542 310 000	A1	4	1.5	200	100	4.8	2.8	100	100	2.8	B5	P
MS/PenA	542 310 000	A1	4	2.5	200	150	9	4	100	150	4	B5	P
MS/PenA	041 231 500	A1	4	2.5	200	150	9	4	100	150	4	B7	P
MS/PenB	061 231 500	G1	4	1.5	200	100	4.8	2.8	100	100	2.8	B7	P
MS/PenT	041 231 500	A1	4	1.5	200	100	4.8	2.8	100	100	2.8	B7	P
MS/PenT	542 310 000	A1	4	1.5	200	100	4.8	2.8	100	100	2.8	B5	P
MSVPen	041 231 500	A1	4	1.5	200	100	4.3	2.2	100	100	2.2	B7	P
MSVPenB	061 231 500	G1	4	1.5	200	100	4.3	2.2	200	100	2.2	B7	P
MU1	002 300 000	D1	4				60		REC		20mA	B4	R
MU2	002 300 000	D1	2				2		D			B4	RR
MU12	892 300 000		4				60		REC		25mA	B4	RR
MU12/14	892 300 000		4 (5)				60		REC		40mA	B4	RR
MU14	892 300 000		4				60		REC		40mA	B4	RR
MU4250	232 300 000	D1	4				120		REC		30mA	B4	R
MVSG	542 310 000	A1	4	1.5	200	75	7.5	2.5	100	75	2.5	B5	P
MVSPen	542 310 000	A1	4	2	250	125	5.1	2.3	200	100	2.3	B5	P
MX40	645 231 700	G1	4	{ 1 3	150 250	75 75	7.5 4.5	0.15 2.0	150 250	75 75	0.6 1.4	B7	TH
MZ05-20	642 300 000		6	12	350		45	4.2	100		4	B4	T
N14	036 540 200		1.4	7.5	90	90	7	1.5	80	75	1.5	AO8	P
N15	026 540 230		1.4	7	90	90	7	1.5	80	75	1.5	AO8	P
N16	026 540 230		1.4	4.5	90	90	9.5	2.1	80	90	2.1	AO8	P
N17	264 536 200		1.4	7	90	75	7.4	1.5	80	60	1.5	B7G	P
N18	364 526 300		1.4	4.5	90	90	9.5	2.1	80	75	2	B7G	P
N19	365 024 300		1.4	4.5	90	90	7.7	2	80	75	2	B7G	P
N25	365 *24 300		1.4	5.2	90	90	5	1.4	80	75	1.4	B7G	P
N30	045 231 600		13	12	250	250	40	0.9	100	150	3.9	B7	P
N31	205 331 600	G1	13	4.4	200	175	40	10	100	100	9	B7	P
N34	105 231 600	G1	13		250	250	40	10.5	No Data Available			B7	P
N37	412 360 500		13	8	200	150	50	10	100	100	9	B7G	P
N40	045 231 600		4	3.5	250	250	32	2.9	100	150	2.9	B7	P
N41	045 231 600		4	3.5	250	250	32	10	100	150	9	B7	P
N42	045 231 600		4	16.5	250	250	34	2.5	100	150	2.5	B7	P
N43	005 231 600	G1	4 (5)	4.5	250	250	40	10	100	150	9	B7	P
N63	026 540 310		6	16.5	250	250	34	2.5	100	150	2.5	AO8	P
N66	026 540 310		6	15	250	250	85	6.3	100	150	6	AO8	P
N77	412 360 500		6	12	250	250	20	2.6	100	150	2.6	B7G	P
N78	412 360 500		6	5.5	250	250	35	10	100	150	9	B7G	P
N108	412 36* 500		40	8	200	150	50	10	100	100	9	B7G	P
N118	23* *54 130		40	6	150	150	30	7.5	100	100		B3A	P
N119	*41 23* 6*5		45	12.5	200	175	70	10	No Data Available			B9A	P
N142	261 054 130		45	9.5	200	175	54.5	9.5	100	100	9	B3A	P
N144	412 360 500		6	12	250	250	20	2.6	100	150	2.6	B7G	P
N145	261 054 130		40	6.3	200	150	29	7.5	100	100	7	B3A	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
N147	026 540 310		6	6	250	250	36		100	150	8	AO8	P
N148	265 004 130		6	12.5	250	250	45	9.4	100	100	4	B8A	P
N150	261 054 130		6	7	250	250	35	10	100	100	9	B8A	P
N151	261 045 130		6	13.5	250	250	22.5	2.9	100	100	2.9	B8A	P
N152	*41 23* *51	A1	20	28	200	200	40	6	100	100	6	B9A	P
N153	541 231 600		5	2.3	200	175	36	10	100	100	9	B9A	P
N154	*41 23* 6*5		16	14.2	200	200	45	8.2	100	100	7	B9A	P
N155	441 231 615		6	10.8	225	225	26	3.2	150	100	3.2	B9A	P
N308	02* 54* 310	A1	25	9.5	100	100	100	13	No Data Available			AO8	P
N309	541 231 600		15	2.3	200	175	36	10	100	100	9	B9A	P
N329	*41 23* 6*5		16	14.2	200	200	45	8.2	100	100	7	B9A	P
N339	*41 23* *51	A1	21.5	13	150	150	50	8.5	100	100	7	B9A	P
N349	*41 23* *51	A1	20	12	150	150	5	8.5	100	100	7	B9A	P
N359	041 231 551	A1	21.5	28	200	200	40	6	100	100	6	B9A	P
N369	041 23* 6*5		12.6	10.3	200	175	31	8.3	No Data Available			B9A	P
N379	*41 23* 6*5		15		200	175	70	10	No Data Available			B9A	P
N709	*41 23* 6*5		6	7.3	250	250	48	11.3	100	150	10	B9A	P
N727	412 365 400		6	4.5	250	250	45	4.1	100	150	4	B7G	P
NDD40	802 310 000		4						D			B4	D
NEP51	023 110 560	G1	4	3	250	100	8	2.2	100	100		8SC	P
NF2	023 110 560	G1	12.5	2	200	100	3	2.1	100	100	2.1	8SC	P
NF3	023 110 560	G1	12.5	2	200	100	4.5	2.3	100	100	2.3	8SC	P
NG320	002 400 000	D1	2						D			B5	D
NG3020	002 300 000	D1	2				5		D			B4	R
NHP51	023 100 560	G1	4	2.5	250	100	3.5	2	100	100		8SC	P
NIX2	*41 23* *51	A1	21.5	28	200	200	40	6	100	100	6	B9A	P
NLP61	023 104 560		4	7	250	250	4	9	100	100		8SC	P
NLP62	020 314 560		4	14	250	250	72	9	No Data Available			8SC	P
NSS42	542 310 000	A1	4	2.5	250	100	3.5	2	100	100		B5	P
NSS43	542 310 000	A1	4	2.5	250	100	3.5	2	100	100		B5	P
NSS183	542 310 000	A1	20	2.5	200	100	3.5	2	100	100		B5	P
NT51	023 100 060	G1	4	5	250		6	2.5	100		2.2	8SC	T
NVS4	542 310 000	A1	4	2	200	100	6	1	100	100		B5	P
NW4	642 310 000		4	2.5	200		2.5	1	100		2.2	B5	T
OO	364 200 000		5		40		1	0.6	No Data Available			UX4	T
OOA	364 200 000		5		40		1.5	0.6	No Data Available			UX4	T
O1	364 200 000		5	4.5	90		2.5		80			UX4	T
O1A	364 200 000		5	4.5	90		2.5	0.7	80		0.7	UX4	T
O1AA	364 200 000		5	4.5	90		3.2	0.9	90		0.8	UX4	T
O1B	364 200 000		5	4.5	90		2.5	0.7	90		0.7	UX4	T
O15/400	642 300 000		4	35	400		40	4.5	100		4.5	B4	T
O54V	642 310 000		4		100			4	100			B5	T
O84	642 300 000		4	4	150		4	1.3	100		1.2	B4	T
O202	645 230 000	G1	2	{	150	50	2		100			} B7	O
					150	75	0.95	0.2	100	75	1		
O406	645 231 700	G1	4	{	90	90	2	1	100	90	1.3	} B7	O
					4	250	90	1.6	1	250	90	1.5	
O1307	023 154 560	G1	4	1.5	200	90	8	3	200	75	1.6	8SC	P
OBC3	041 896 231		12.5	2	250		1	1.1	150		1.1	AO8	DDT
OBF2	206 571 930	G1	9	2	200	100	6	1.8	100	100	1.7	AO8	DDP
OCH4	217 544 630	G1	15	{	100		3.5		100	60	3.5	} AO8	TH
					200	100	3	0.75	100	100	0.7		
OF1	026 510 310	G1	6.3	3	250	100	8.5	1.8	100	100	1.7	AO8	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
OF9	206 501 130	G1	8.5	2.5	200	100	6	2.2	100	100	2	AO8	P
OM1	020 080 310		30				120		REC		30mA	AO8	R
OM3	028 190 310		6						D			AO8	DD
OM4	026 980 310	G1	6	5	250		5.5	2.2	100		2.2	AO8	DDT
OM5	026 510 310	G1	6	2	250	100	3	1.8	100	100	1.8	AO8	P
OM5B	026 510 310	G1	6	2	250	100	3	1.8	100	100	1.6	AO8	P
OM5C	026 510 310	G1	6	2	250	100	3	1.8	100	100	1.8	AO8	P
OM6	026 510 310	G1	6	2.5	250	100	6	2	100	100	2	AO8	P
OM7	026 510 310	G1	6	2.5	250	100	6	2	100	100	2	AO8	P
OM9	026 500 310	G1	6	18	260	250	32	2.8	100	150	2.8	AO8	P
OM10	027 546 310	G1	6	{ 2.0 2.0	{ 100 250	{ 100	{ 5.4 5.0	{ 2.2 2.4	{ 100 100	{ 60 100	{ 2.8 1.2	} AO8	TH
OP41	045 231 600		4	12.5	250	250		9.1	100	100	8	B7	P
OP42	045 231 600		4	6.2	250	250		10.5	100	100	9	B7	P
OS6/300	642 350 000		4	20	300	150	22	2	100	100		B5	P
OS18/600	023 114 500	A1	6	14	250	275	72	8.5	100	150	8	8SC	P
OSW2190	021 415 360		6.3	2	300	150	10	9	No Data Available			AO8	P
OSW2192	120 415 360		6.3	3	300	150	30	11	No Data Available			AO8	P
OSW2600	021 415 360		6.3	2	300	150	10	9	No Data Available			AO8	P
OSW2601	120 415 360		6.3	3	300	150	30	11	No Data Available			AO8	P
OSW3105	041 896 230		6.3	2	250		0.9	1.1	100		1	AO8	DDT
OSW3106	026 540 310		6.3	12.5	250	250	45	4.1	100	150	4	AO8	P
OSW3107	020 809 030		5				60		REC		20mA	AO8	RR
OSW3108	026 540 310		6.3	14	250	250	72	6	100	150	5	AO8	P
OSW3109	028 190 300		6.3						D			AO8	DD
OSW3111	021 415 360		6.3	3	250	100	9.2	2	100	100	2	AO8	P
OSW3112	026 040 310		6.3	8	250		9	2.6	100		3	AO8	T
P2	642 300 000		2	6	100		12	3.5	100		4	B4	T
P4	642 300 000		4	21	250		30	2.8	100		2.8	B4	T
P6MO	023 104 560		6.3	14	250	250	72	9	100	100		8SC	P
P12/250	642 300 000		4	44	250		60	6	100		6	B4	T
P15/250	642 300 000		4	44	250		60	6	100		6	B4	P
P15/250S	023 004 060		4	44	250		60	6	100		6	8SC	T
P24/450	642 300 000		7.5	70	400		55	2.1	100		2.1	B4	T
P25/400	642 300 000		6	100	350		70	3.7	100		3.7	B4	T
P25/500	642 300 000		6	90	400		65	3	100		3	B4	T
P26/500	642 300 000		4	100	400		62.5	4.2	100		4.2	B4	T
P27/500	642 300 000		4	27	400		62.5	8.5	100		8	B4	T
P30/500	642 300 000		4	100	400		60	4	100		4	B4	T
P41	216 040 030		4	11.8	250		16	4.5	100		4.5	MO8	T
P43M	642 350 000		4	17	250	250	26	2.5	100	100		B5	P
P61	216 040 030		6	11.8	250		16	4.5	100		4.5	MO8	T
P215	642 300 000		2		150			1.4	100		2.2	B4	T
P220	642 300 000		2	7.5	150		6	3	100		3	B4	T
P220A	642 300 000		2	14	150		15	2.7	100		2.7	B4	T
P222	642 300 000		2	10.5	150		6	3	100		3	B4	T
P225	642 350 000		2	4.5	150	150	5.6	2.2	100	100	2.2	B5	P
P240	642 300 000		2	24	150		18	1.1	100		3.7	B4	T
P240A	642 300 000		2	21	150		25	5	100		5	B4	T
P410	642 300 000		4	12	150		7	1.3	100		1.5	B4	T
P414	642 300 000		4	16	100		14	2.8	80		2.8	B4	T

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
P415	642 300 000		4	25	150		14	1.5	100		1.5	B4	T
P420	642 300 000		4	85	400		50	6	100		6	B4	T
P421	642 350 000		4	11	200		12	1.5	100			B5	P
P422	642 350 000		4	20	250	250	22	2.5	100	100		B5	P
P425	642 350 000		4	25	300	200	20	1.7	100	150	1.7	B5	P
P425	642 300 000		4	16.5	150		17	1.9	100			B4	T
P430	264 300 000		4	30	200		25	2.2	100		2.2	UX4	T
P434	032 004 560		4	17	250	250	36	2.5	100	100		8SC	P
P435	642 350 000		4	17	250	250	30	3	100	150	3	B5	P
P440	642 350 000		4	30	400	200	45	5	No Data Available			B5	P
P440N	045 231 600		4	22	250	250	26	2.8	100	150	2.8	B7	P
P440N	642 310 000		4		250	250	20	2.5	100	150	2.8	B5	P
P441N	045 231 600		4	22	250	250	36	2.8	100	150	2.8	B7	P
P455	264 300 000		4	15	250		30	5.5	100		5.5	UX4	T
P455	023 100 650		4	25	250	250	36	2.6	100	150	2.8	8SC	P
P460	642 300 000		4	40	200		50	3.5	100		3.5	B4	T
P520	642 350 000		5	17	200	150	12	1.3	100	100		B5	P
P625	642 300 000		6	26	250		24	2.5	100			B4	T
P469	045 231 600		4	14	250	275	72	8.5	100	150	7	B7	P
P495	045 231 000		4	6	200	200	32		100	100		B7	P
P496	045 231 600		4	6	200	200	32	9.5	100	100	8	B7	P
P625A	642 300 000		6	39	200		25	2.3	100			B4	T
P625B	642 300 000		6	1	200			2.8	200		2.8	B4	T
P626	023 100 560	G1	6.3	32	250	250	26	2.5	100	100		8SC	P
P628	023 100 560	G1	6.3	17	250	250	56	2.5	100	100		8SC	P
P650	642 300 000		6	1	100		37	2.7	100		2.7	B4	T
P861	289 130 000		6				30		REC		15mA	UX5	RR
P1320	023 100 560		13	20	250	250	22	1.9	100	100		8SC	P
P2018	642 310 000		20	15	200		20	4	100		4	B5	T
P2020N	642 310 000	G2	20	18	200	200	20	1.7	100	100	1.7	B5	P
P2060	023 140 560		24	19	200	100	40	3.2	100	90	3	8SC	P
P2460	642 310 000	G2	24	19	200	100	40		100	90		B5	P
P3580	045 231 600		33	8.5	200	200	45	8	100	150	7	B7	P
P4100	642 300 000		4	40	400		30		100			B4	T
PA20	642 300 000		2	36	300		49	5.2	100		5	B4	T
PA1	642 310 000		4	10	200		40	5	100		5	B5	P
PA40	642 300 000		4	90	400		200	10	100		9	B4	T
PAB1	023 110 980		6						D			8SC	DDD
PABC80	+91 238 146		9.5	2.3	200		1	1.4	100		1.4	B9A	DDDT
PB1	234 600 000		2	4	150		11.5	3.8	150		3.8	B4	T
PB495	892 300 000		4				30		REC		15mA	B4	RR
PBF2	026 895 310	G1	6	3	250	100	5.8	1.2	100	100	1.2	AO8	DDP
PC86	641 234 146		3.8	1.5	200		12	14	No Data Available			B9A	T
PC88	414 234 464		4	1.2	150		12.5	14	No Data Available			B9A	T
PC92	602 304 100		3.2	2	250		10	5	100		5	B7G	T
PC93	642 314 600		4.7	4	100		16	8	100		8	B9A	P
PC95	142 360 100		3.6	1.2	200		10	10.5	No Data Available			B7G	T
PC96	412 314 600		3.1	1	200		11.5	6.7	200		6.7	B7G	T
PC97	142 360 100		4.5	1	150		11	13	No Data Available			B7G	T
PC900	412 360 100		4	1	150		12	15	No Data Available			B7G	T
PCC84	147 234 116		7	3.0	90		14	6	100		6	B9A	TT
PCC85	641 237 410		9	2.1	200		10	5.8	150		5.8	B9A	TT

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				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V			
□ PCC83	641 237 410		7	1.2	90		15	12.5	No Data Available			B9A	TT	
PCC89	147 234 116		7.2	1.2	90		15	12	No Data Available			B9A	TT	
PCC185	641 227 413		7.2	8.5	250		10.5	2.2	100		3.1	B9A	TT	
PCC189	641 237 410		7	1.2	90		15	12.5	No Data Available			B9A	TT	
PCC805	146 234 117		7	1.2	90		15	9	100		9	B9A	TT	
PCC806	146 234 117		7	1.2	90		15	16.5	100		9	B9A	TT	
PCE80	641 237 541		10	{	200		10	3.4	100	60	3.4	} B9A	TP	
					200	200	10	12.5	100	100				
PCE82	641 237 541		10	{	4.9	150		10	3.7		3.7	} B9A	TP	
					2.9	200	200	10	12.5	100	100			
PCE800	641 237 541		9.4	{	7.8	200		10	3.4	100	60	3.4	} B9A	TP
					2.7	200	200	10	7.5	100	100			
PCF80	645 237 114		9	{	2	100		14.0	5.0	100	60	5.0	} B9A	TP
					2.0	230	175	10.0	6.2	150	150	5.0		
PCF82	645 237 114		9.5	{	1.0	150	0	18	8.5	100	60	7.0	} B9A	TP
					1.0	250	100	10	5.2	100	100	5.0		
PCF84	576 234 141		9	{	2	100		14	2.5	100	60	3	} B9A	TP
					0	200	175	8	2.5	100	100	2.2		
PCF86	141 234 675		8	{	3	100		14	6	100	60		} B9A	TP
					1.2	200	150	10	12	No Data Available				
PCF87	157 236 414		7.4	{	3.2	100		15	8.5	100	60	8	} B9A	TP
					2.5	125	125	10	11	100	100			
PCF800	157 236 414		9	{	2.2	100		15	5	100	60	5	} B9A	TP
					2.4	200	150	10	8.5	100	100	5		
PCF801	141 237 564		8.5	{	3	100		15	8.5	100	60	8	} B9A	TP
					1.2	200	125	10	10.5	100	100			
PCF802	645 237 114		9.0	{	2.0	200		3.5	3.5	100	60	3.5	} B9A	TP
					1.0	100	100	6.0	5.5	100	100	5		
PCF803	141 237 564		9	{	3	100		15	9	80	60		} B9A	TP
						150	100	10	11	80	60			
PCF805	657 231 414		7.4	{	3	100		14	5.5	100	60	5	} B9A	TP
					1.5	150	150	10	11	100	100			
PCF806	141 237 564		8	{	3	100		14	5.5	100	60	6	} B9A	TP
					1.2	200	150	10	12	100	100			
PCF808	657 231 414		7.4	{	3	100		14	5.5	100	60	6	} B9A	TP
					1.7	150	150	12	14.5	80	60			
PCL81	451 237 614		12.6	{	1.9	150		1.3	1.6	100	60	1.2	} B9A	TP
					6.5	200	200	30	8.7	100	100			
PCL82	414 237 516		16	{	1.5	200		1.7	2.4	100	60	3	} B9A	TP
					11	200	175	41	7.5	100	100	6		
PCL83	641 237 154		12.5	{	8.5	250	0	10.5	2.2	100	60	2.0	} B9A	TP
					9.0	200	175	30	4.7	100	100	4.0		
PCL84	461 237 145		15	{	1.7	200		3	4	100	60	4	} B9A	TP
					2.9	200	200	18	10	100	100			
PCL85	641 237 514		18	{	0.8	100		5	6.5	100	60	6.5	} B9A	TP
					15	200	175	41	7.5	100	100			
PCL86	415 237 146		14.5	{	1.7	250		1.2	1.6	100	60	2	} B9A	TP
					5.7	250	250	39	10.5	No Data Available				
PCL88	414 237 516		16	{	2.1	200		10	3.4	100	60	3	} B9A	TP
						200	200			100	100			
PCL800	414 237 516		16	{	2.1	100		10	4.3	100		4.3	} B9A	TP
					18	200	200	45	7.5	100	100	10.5		
PC05-15	023 014 500	A1	4		400	250	40	1.3	No Data Available			8SC	P	
PC03/3A	023 014 500	A1	2		300	125		1.4	100	100		8SC	P	
PC03/3B	023 014 500	A1	4		300	125		1.4	100	100		8SC	P	

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
PD220	446 230 700		2	1.2	150		0.8	0.9	150		0.9	B7	TT
PD220A	446 230 700		2	3	140		5	1.5	100		1.5	B7	TT
PDD2	264 589 130		6.3	6	250	250	36	9	100	100	8.5	AO8	DDP
PE04-10	023 114 500	A1	12		400	300	27	7.5	No Data Available			8SC	P
PE05-15	023 114 500	A1	12				40	1.5	No Data Available			8SC	P
PE05/25	256 130 000	A1	12.6	80	400	200	70		No Data Available			B5B	P
PE06/40P	123 114 500	A1	6	40	400	300	40	4	No Data Available			8SC	P
PE1-100	245 611 300		12	33	400	250	40	6	No Data Available			B7A	P
Pen4DD	918 236 500	G1	4(5)	6	250	250	36	9.5	100	150	8	B7	DDP
Pen4V	642 310 000	G2	4	10	250	200	35	3	100	150	2.8	5B	P
Pen4VA	642 310 000	G2	4	22	250	250	36	2.8	100	150	2.8	B5	P
Pen4VA	045 231 600		4	20	250	250	36	2.8	100	150	2.8	B7	P
Pen4VB	045 231 600		4	5.8	250	250	36	9.5	100	150	8	B7	P
Pen4VX	642 310 000	G2	4	15	350	200	22	3.5	100	150	3.5	B5	P
Pen13	023 100 560	G1	13	14	200	200	25	2.5	100	100	2.5	8SC	P
Pen13A	023 110 560	G1	33	8.5	200	200	45	8	100	100	6	8SC	P
Pen13C	045 231 600		13	11	250	250	32	6.5	100	150	6	B7	P
Pen20	642 310 000	G2	20	18	200	200	20	1.7	100	150	1.7	B5	P
Pen24	206 540 030		2	3.3	200	125	5	4	100	100	4	MO8	P
Pen25	206 540 030		2	3.6	200	125	5	3	100	100	3	MO8	P
Pen26	023 100 560	G1	24	19	200	100	40	3.1	100	60	3	8SC	P
Pen36A	145 231 600		35	8.5	200	200	45	8	100	150	7	B7	P
Pen36C	045 231 600		33	8.5	200	200	45	8	100	100	7	B7	P
Pen40DD	918 236 500	G1	44	8.5	200	200	45	8	100	100	7	B7	DDP
Pen44	216 540 030		4	11	300	275	70	10.6	100	150	9	MO8	P
Pen45	216 540 030		4	8.5	250	250	49	8.8	100	150	8	MO8	P
Pen45AN	216 540 030		4	8.5	250	250	40	8.8	100	150	8	MO8	P
Pen45DD	216 590 830	G1	4	8.5	250	250	40	8.8	100	100	8	MO8	DDP
Pen46	210 540 030	A1	4(5)	8	300	225	63	8.5	100	100	8	MO8	P
Pen141	206 540 030		1.4	9	90	90	5.5	1.4	80	75	1.4	MO8	P
Pen220	642 350 000		2	4.9	150	150	9	2.2	100	100	2.2	B5	P
Pen220A	642 350 000		2	9	150	150	18	2.2	100	100	2.2	B5	P
Pen230	642 350 000		2	4.5	150	125	6	2.2	150	125	2.2	B5	P
Pen231	642 350 000		2	2.5	150	125	5	4.4	100	100	5	B5	P
Pen383	216 540 030		38	10	200	175	64	10.5	100	100	9	MO8	P
Pen384	216 540 030		38	7	150	125	40	7.8	100	100	12	MO8	P
Pen425	642 350 000		4	25	300	200	20	1.7	100	100	1.7	B5	P
Pen428	045 231 600		4(5)	13.8	250	250	72	8.5	250	200	7	B7	P
Pen453DD	216 590 830	G1	45	10	200	175	64	10.5	100	100	9	MO8	DDP
Pen650	023 114 500	A1	6	24	400	300	30	5	100	150	5	8SC	P
Pen1340	045 231 600		13	8.6	250	250	41	6.4	100	150	6	B7	P
Pen2020	023 100 560	G1	20	19	200	100	40	3.1	100	60	3.1	8SC	P
Pen3520	045 231 600		35	8	200	200	40	7.3	100	100	7	B7	P
Pen3820	045 231 600		38	10	150	175	64	10.5	100	100	9	B7	P
PenA1	642 350 000		4	16.5	250	250	32	3	100	150	3	B5	P
PenA4	045 231 600		4	5.8	250	250	36	9.5	100	150	9	B7	P
PenA4	005 231 600	G1	4	5	250	250	40	9.1	100	100	8	B7	P
PenB1	642 350 000		2	4.5	150	150	8.5	2.5	100	100	2.5	B5	P
PenB4	045 231 600		4(5)	14	250	275	72	8.5	100	150	7	B7	P
PenDD61	869 231 500	G1	6	5.3	250	250	32	8.5	250	200	8	B7	DDP
PenDD1360	968 231 500	G1	13	5.3	250	250	32	8.2	100	100	8	B7	DDP

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
PenDD2530	869 231 500	G1	25	7.8	250	250	43	7.8	100	150	7.8	B7	DDP
PenDD4020	968 231 500	G1	40	7.7	250	250	43	7.8	100	100	7	B7	DDP
PenDD4021	968 231 500	G1	45	10	200	175	64	10.5	100	100	12	B7	DDP
PF9	026 510 310	G1	6	3.5	250	100	7.5	1.7	100	100	1.6	AO8	P
PF83	501 236 014		4.5	2	60	50	1.9		No Data Available			B9A	P
PF86	501 236 014		4.5	2	250	150	3	2	100	100		B9A	P
PF462	041 230 500	A1	2	1	150	150	3	1.9	150	150	1.9	B7	P
PF472	041 230 500	A1	2	0.5	150	150	2.5	1.7	150	150	1.7	B7	P
PL11	602 301 450		17.5	10.5	200	200	53	9	100	100		F8	P
PL33	026 540 310		19	5.3	250	250	32	9	100	150	8	AO8	P
PL36	*2* 540 310	A1	25	21	200	175	100	11	No Data Available			AO8	P
PL38	120 540 310	A1	30	5.5	200	200	75	13.5	100	150	10	AO8	P
PL81	*41 23* *51	A1	21.5	28	200	200	40	6	100	100	6	B9A	P
PL81A	*41 23* *51	A1	21.5	24.5	150	150	45	6	100	100	7.2	B9A	P
PL81F	*41 23* *51	A1	21.5	28	200	200	30	6	100	100	6	B9A	P
PL82	041 230 605		16	14.2	200	200	45	7.6	100	100	7	B9A	P
PL83	541 231 60*		15	2.3	200	175	36	10	100	100	9	B9A	P
PL84	*41 23* 6*5		15	12.5	200	175	70	10	100	100	9	B9A	P
PL136	521 441 450	A1	35	12	100	100	90	19	No Data Available			AO8	P
PL183	541 231 640		12.6	2.1	150	225	40	25	No Data Available			B9A	P
PL300	521 441 350	A1	35	22.5	200	150	100	10	No Data Available			B8A	P
PL302	02* 340*310	A1	25	12	100	100	60	20	100	100	20	AO8	P
PL500	441 235 51*	A1	27	14	150	150	100	10	No Data Available			B9D	P
PL502	441 235 510	A1	35	30	200	200	100	2.0	No Data Available			B9D	P
PL504	441 237 710		27	175	175	100	7		No Data Available			B9D	P
PL505	415 235 141	A1	40	35	150	150	100	10	100	100	8	B9D	P
PL508	4*5 236 14*		17.0	18	200	200	60	6	100	100	8	B9D	P
PL820	041 231 551	A1	21.5	22	200	175	45	6.2	100	100	6	B9A	P
PLL80	546 234 175		12	9	250	250	24	6	100	100		B9A	PP
PM04	412 365 100		6.3	1.2	250	100	11	4.4	100	100	4	B7G	P
PM05	412 365 100		6.3	2.3	150	150	7	4.3	100	100	4	B7G	P
PM07	412 361 500		6.3	2	250	250	10	7.5	100	150	5	B7G	P
PM1A	642 300 000		2		100		1	1.2	100		1.2	B4	T
PM1HF	642 300 000		2	3	150		1.5	0.8	100		0.8	B4	T
PM1HL	642 300 000		2	1.5	150		2.3	1.2	150		1.2	B4	T
PM1LF	642 300 000		2	6	150		3	0.9	100		0.9	B4	T
PM2	642 300 000		2	7	100		4	0.9	100		0.9	B4	T
PM2A	642 300 000		2	6	160		5	2	100		2	B4	T
PM2B	446 230 700		2	1	150		3	2.5	100		2.5	B7	TT
PM2BA	446 230 700		2	1	150		3	2.1	100		2.1	B7	TT
PM2DL	642 300 000		2	4.5	150		2	1.5	100		1.5	B4	T
PM2DX	642 300 000		2	5	150		2.3	1.1	100		1	B4	T
PM2HL	642 300 000		2	1.5	150		2.2	1.4	150		1.4	B4	T
PM3	642 300 000		4		100		2	1.1	100		1	B4	T
PM4DX	642 300 000		4		100		1.5	2	100		2	B4	T
PM12	542 300 000	A1	2	0	150	75	4	1.1	100	75	1.1	B4	P
PM12A	542 300 000	A1	2	1	150	75	2	1.5	100	75	1.5	B4	P
PM12M	542 300 000	A1	2	1	150	90	1.4	1.4	150	90	1.4	B4	P
PM12V	542 300 000	A1	2		150	90		0.7	100	90	0.7	B4	P
PM14	542 300 000	A1	4		150	75	2.7	0.8	100	75	0.8	B4	P
PM22	642 350 000		2	10	150	150	15	1.3	100	100	1.3	B5	P
PM22A	642 350 000		2	4.5	150	150	5.6	2.2	100	100	2.2	B5	P
PM22C	642 350 000		2	16	150	150	23	3	100	100	3	B5	P
PM22D	642 350 000		2	2.4	150	150	5	3	100	100	3	B5	P
PM24	642 350 000		4	11	150	150	20	1.7	100	100	1.7	B5	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
PM24	642 310 000	G2	4	11	150	150	20	1.7	100	100	1.7	B5	P	
PM24A	642 350 000		4	22.5	300	200	20		100	100	2	B5	P	
PM24B	642 350 000		4	40	400	300	30		100	100	2.1	B5	P	
PM24C	642 350 000		4	20	400	200		3	100	100		B5	P	
PM24D	642 350 000		4 (5)	35	400	200	50	4	100	100	4	B5	P	
PM24DC	642 350 000		4 (5)	42	300	200	20	1.5	100	100	2	B5	P	
PM24E	642 350 000		4	40	300	300	83	3.9	100	150	3.9	B5	P	
PM24M	642 350 000		4	17	250	250	30	3	100	150	3	B5	P	
PM202	642 300 000		2	14	150		14	3.5	100		2.5	B4	T	
PM252	642 300 000		2	2	150		14	3.7	100			B4	T	
PM254	642 300 000		4	21	200		15		100			B4	T	
PM256	642 300 000		6	27	250		20		100		2.4	B4	T	
PN2	642 350 000		2	7.5	150	150	6		100	100		B5	P	
PP2	642 300 000	G2	2	5	150	150	7	2.1	100	100	2.1	B4	P	
PP2	642 350 000		2	5	150	150	7	2.1	100	100	2.1	B5	P	
PP2S	023 004 560		2	5	150	150	7	2.1	100	100	2.1	8SC	P	
PP3/250	642 300 000		4	37	300		48	5.2	100		6.5	B4	T	
PP4	642 350 000		4	15	250	250	36	3	100	150		B4	P	
PP4S	032 004 560		4	15	250	250	36	3	100	150		8SC	P	
PP4S	642 350 000		4	15	250	250	36	3	100	150		B5	P	
PP5/400	642 300 000		4 (5)	32	400		62	8.2	100		6	B4	T	
PP6AS	023 104 560		6	18	250	250	32	2.8	100	150	2.8	8SC	P	
PP6B	265 413 000		6	6	250	250	36	10	100	150	9	UX6	P	
PP6BG	026 540 310		6	6	250	250	36	10	100	150	9	AO3	P	
PP6BS	026 540 310		6	6	150	250	36	9	100	150	9	AO3	P	
PP6C	026 540 310		6	12	250	200	36	10	100	150	9	AO3	P	
PP6E	045 231 600		6	17	500	275	72	8.5	100	150	8	B7	P	
PP13A	045 231 600		13	12	200	200	40	2.6	100	100	2.5	B7	P	
PP13S	023 100 560	G1	13	14	200	200	25	3.5	100	100	3.5	8SC	P	
PP24	005 231 600		G1	24	19	200	100	40	3	100	75	3	B7	P
PP24S	023 100 560		G1	24	19	200	100	40	3	100	75	3	8SC	P
PP34	005 231 600	G1	35	6.5	200	200	45	8.5	100	100	8	B7	P	
PP34S	023 100 560		G1	35	6.5	200	200	45	8.5	100	100	8	8SC	P
PP35	045 231 600		35	6.5	200	200	45	8.5	100	100	8	B7	P	
PP36	145 231 600		35	6.5	200	200	45	8.5	100	100	8	B7	P	
PP37	005 231 600	G1	35	9.5	200	100	45	8.5	100	75	8	B7	P	
PP60	026 540 310		6	15	250	250	85	6.3	100	150	6.3	AO8	P	
PP215	642 350 000		2	4.5	90	90	8	1.7	100	90	1.7	8SC	P	
PP215S	032 004 560		2	4.5	90	90	8	1.7	100	90	1.7	8SC	P	
PP220	642 300 000		2	12	150		12.5	3	100		3	B4	T	
PP222	642 350 000		2	6	150	150	12	2.5	100	100	2.5	B5	P	
PP225	642 350 000		2	12	150	150	18	2	100	100	2	B5	P	
PP225S	023 004 560		2	12	150	125	18	2	100	100	2	8SC	P	
PP415	642 350 000		4	12	200	200	12	1.8	100	150	1.8	B5	P	
PP416	642 350 000		4	12	200	75	10	2	100	60	2	B5	P	
PP430	642 350 000		4	25	200	200	20	2	100	100	2	B5	P	
PP431	642 350 000		4	20	250	250	22	1.9	100	150	1.9	B5	P	
PP2018	642 310 000	G2	20	18	200	200	20	2.5	100	100	2.5	B5	P	
PP2018	045 231 600		20	18	200	200	20	2.5	100	100	2.5	B7	P	
PP2101	364 520 000		2	3	150	150	7	2.1	100	100	2.1	UX5	P	
PP3521	040 231 600		35	25	200		70	6.3	100		6	B7	T	

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
PP4100	642 350 000		4	40	400	300	30	3	100	150	3	B5	P
PP4101	642 350 000		4	14	250	250	36	3.5	100	150	3.5	B5	P
PP4118	160 452 300		40	10	200	175	35	6.5	100	100	6	C7	P
PT	045 231 600		4	6	250	250	32.5	7.5	100	150	2	B7	P
PT2	642 350 000		2	4.5	150	125	5.3	2.6	100	100	7.6	B5	P
PT2	642 300 000	G2	2	4.5	150	150	6.5	2.5	100	100	2	B4	P
PT2A	642 350 000		2	10.5	150	150	18		100	100		B5	P
PT2K	642 350 000		2	4.5	150	150	9.5	2.5	100	100	2.5	B5	P
PT4	642 350 000		4	17	250	250	30	3	100	150	2.3	B5	P
PT4	045 231 600		4	6	250	250	36	9.5	100	150	7	B7	P
PT4	216 045 300		4	6	250	250	31	7	100	100		B7	P
PT4D	968 231 500	G1	4	6	250	250	32.5	7.5	100	150	7	B7	DDP
PT5	045 231 600		26	7	250	250	36	9	100	100		B7	P
PT10	045 231 600		3	7.5	250	250	40	9	100	150	8	B7	P
PT12	204 531 102	A1	10	15	250	250	62	6	100	150	6	B9	P
PT15	542 310 000	A1	6	25	300	300	40	2.8	100	100	1.2	B5	P
PT16	642 350 000		4	15	300	300	55	4.8	100	150	4.8	B5	P
PT25	642 350 000		4	22	400	200	62	4	100	100	4	B5	P
PT25H	642 350 000		5	16	400	300	62	6.5	100	150	5	B5	P
PT41	642 350 000		4	12.5	250	200	30	3	100	100	3	B5	P
PT41B	642 350 000		4	40	400	300	30	2.2	100	100	2.2	B5	P
PT225	642 350 000		2	6	150	150	8	2.3	100	100	2.5	B5	P
PT225	642 300 000	G2	2	6	150	150	8	2.3	100	100	2.5	B4	P
PT240	642 350 000		2	9	150	150	16	2.5	100	100	1.6	B5	P
PT250	642 350 000		2	15	250	250	40		100	150		B5	P
PT425	642 350 000		4	7.5	150	150	15	2	100	100	2	B5	P
PTA	045 231 600		13	10	250	250	32	4	100	150	4	B7	P
PTAD	968 231 500	G1	4	6	250	250	7	7	100	150	7	B7	DDP
PTS	005 231 600	G1	26	5.5	250	250	40	6	100	150	6	B7	P
PTS	045 231 600		26	8.2	250	250	32	6	100	150	5	B7	P
PTSA	869 231 500	G1	26	5.5	200	200	40		100	150		B7	DDP
PTSD	968 231 500	G1	26	5	250	200	40	6	100	150	6	B7	DDP
PTT120P	641 237 410		18	1.5	250		10	5.5	100			B8D	TT
PTT122P	641 237 410		18	2	250		10	5.5	100		5	B8D	TT
PTT141	602 441 443		6.3	1.2	150		22	25	No Data Available			B9A	T
PTT202	412 356 010		18	2.2	200	200	8	5.5	100	100		B8D	P
PTT202S	412 356 010		18	2.2	200	200	8	5.5	100	100		B8D	P
PTT203	026 510 310	G1	18	5	200	200	35	8.5	No Data Available			AO8	P
PTT203P	026 500 310	G1	18	5	200	200	35	8.5	100	100		AO8	P
PTT208P	412 356 110		18	4.5	200	200	18	6	100	100		B8D	P
PTT212P	412 356 010		18	1.6	200	200	10.5	8.5	No Data Available			B8D	P
PTT213P	412 356 010		6.3	1.6	200	200	10.5	8.5	No Data Available			B8D	P
PTT214P	412 365 110		6.3	1.8	150	150	12.5	13.5	No Data Available			B8D	P
PTT216	402 106 053		6.3	1.8	150	150	12.5	13.5	No Data Available			B8D	P
PTT217	123 141 516		6.3	1.6	150	150	12.5	16	No Data Available			B9A	P
PTT241P	412 356 *00		6.3	2.9	250	225	34	12.5	No Data Available			B8D	P
PTT243P	421 356 130		6.3	1.5	150	150	26	28	No Data Available			B8D	P
PTT244P	615 141 230		18	1.5	150	150	26	27	No Data Available			B8D	P
PTZ	005 231 600	G1	40	5.5	250	200	40	7.5	100	150	7	B7	P
PV06-20	400 235 100	A1	6	40	200	300	40	4	100	100	4	B7	P
PV06-25	401 235 100	A1	6	40	200	300	40	4	100	100	4	B7	P
PV1-35	401 235 100	A1	12	25	250	200	40	2	100	100	2	B7	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
PV4	892 300 000		4				60		REC		20mA	B4	RR
PV25	091 231 800		25				60		REC		20mA	B7	RR
PV29	091 231 800		30				60		REC		20mA	B7	RR
PV29S	123 180 090		30				60		REC		20mA	85C	RR
PV30	091 231 800		30				30		REC		15mA	B7	RR
PV30A	123 180 090		30				30		REC		15mA	85C	RR
PV30S	123 190 080		30				60		REC		20mA	85C	RR
PV75/1000	892 300 000		4				30		REC		17mA	B4	RR
PV100/2000	892 300 000		4				60		REC		18mA	B4	RR
PV200/600	892 300 000		4				120		REC		28mA	B4	RR
PV400	802 300 000		4				30		REC		15mA	B4	R
PV430	892 300 000		4				15		REC		9mA	B4	RR
PV475	892 300 000		4				15		REC		11mA	B4	RR
PV480	802 300 000		4				30		REC		16mA	B4	R
PV495	892 300 000		4				30		REC		15mA	B4	RR
PV3018	190 812 300		30				60		REC		20mA	C7	RR
PV4100	892 300 000		4				30		REC		15mA	B4	RR
PV4200	892 300 000		4				60		REC		27mA	B4	RR
PV4201	892 300 000		4				60		REC		27mA	B4	RR
PV4300	892 300 000		4				60		REC		20mA	B4	RR
PVB6	892 310 000		6				60		REC		20mA	B5	RR
PX2	642 300 000		2	22	150		22	1.5	100		1.5	B5	T
PX4	642 300 000		4	43	300		43	6	100		6	B4	T
PX5	642 300 000		4	34	400		62.5	6.5	100		6.5	B4	T
PX25	642 300 000		4 (5)	31	400		40	7.5	100		7	B4	T
PX25A	642 300 000		4 (5)	100	400		62.5	3.7	100		6.5	B4	T
PX41	642 300 000		4	40	250		49	6	100		6	B4	T
PX230	642 300 000		2	15	150		17.5	3.5	100		3.5	B4	T
PX230SW	602 300 000	G1	2	15	150		18	3.5	100		3.5	B4	T
PX240	642 300 000		2	32	200		25	3	100		3	B4	T
PX2100	642 300 000		7.5	30	400		18	1.6	100		1.6	SM4	T
PY31	020 080 310		17				120		REC		70mA	AO8	R
PY32	026 060 310		29				180		REC		70mA	AO8	R
PY33	026 060 310		29				180		REC		70mA	AO8	R
PY71	200 800 030	C	21				120		REC		30mA	B8B	R
PY80	001 230 008		19				180		REC		70mA	B9A	R
PY81	*** 23* **8	C	17				120		REC		40mA	B9A	R
PY82	**1 23* **8		19				180		REC		70mA	B9A	R
PY83	*** 23* **8	C	20				120		REC		70mA	B9A	R
PY88	*** 23* **8	C	26				120		REC		40mA	B9A	R
PY300	028 08* 310		29				180		REC		40mA	AO8	R
PY500	*82 23* 88*		42				100		REC			B9D	R
PY800	*** 23* **6	C	19				120		REC		40mA	B9A	R
PY801	*** 23* **6	C	19				120		REC		40mA	B9A	R
PZ	264 530 000		2.5	16.5	250	250	31	2.5	100	150	2.5	UX5	P
PZ03-3	401 235 000	A1	4	25	300	125	25	1.4	100	100	1.4	B7	P
PZ05-15	401 235 000	A1	4		400	150	40	1.2	100	100	1.2	B7	P
PZ30	029 183 210		26				120		REC		60mA	AO8	RR
PZH	265 413 000		2.5	16.5	250	250	34	2.2	100	150	2.2	UX6	P
QA2400	412 361 500		6	2.5	200	200	8	2.5	100	150	2.5	B7G	P
QA2401	6*2 364 100		6	8.5	250		10.5	2.2	100		2.2	B7G	T
QA2402	412 36* 500		6	13.5	250	250	16	2.6	100	150	2.6	B7G	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
QA2403	412 361 500		6	{ 2.0 1.6	250	250	10.0	7.5	100	150	5.0	} B7G	P
QA2404	192 310 800		6		200	150	4.0	6.4	100	150	5.0		B7G
QA2405	241 657 143		6	14	250	150	30	3.9	100	100	3.9	B9G	PP
QA2406	471 226 413		6	2	250		10	5.5	100		5	B9A	TT
QA2407	802 309 100		6				30		REC		15mA	B7G	RR
QA2408	471 461 230		6	8	250		9	2.6	100		2.6	AO8	TT
QB65	461 471 230		6	8	250		9	2.6	100		2.6	AO8	TT
QB309	641 227 413		6	2	250		10	5.5	100		5	B9A	TT
QC05/35	235 242 300	A1	1.6		200	200	100	7	No Data Available			AO8	P
QD77	182 310 900		6						D			B7G	DD
QE04-10	265 511 413		6	12	300	150	25	1.9	100	100		B9G	P
QE05	125 141 300	A1	6		200	200	100	7	No Data Available			AO8	P
QE06-50	254 130 000	A1	6	14	200	250	83	6.5	100	100		UX5	P
QL77	6*2 364 100		6	8.5	250		10.5	2.2	100		2	B7G	T
QN77	412 360 500		6	12.5	250	250	16	2.6	100	150	2.6	B7G	P
QP21	446 235 700		2	4.5	150	150	11	2.3	100	100	2.3	B7	PP
QP22A	465 230 574		2	12	150	150	3	4	150	150	4	B9	PP
QP22B	446 235 700		2	11.7	150	150	3.8		100	100	3.1	B7	PP
QP25	207 544 630		6	2	150	125	10	3	100	100	3	MO8	PP
QP230	446 235 700		2	9.6	150	125	4.6	3	100	100	3	B7	PP
QP240	465 230 574		3	5	150	150	25	4	100	100	4	B9	PP
QPT2	446 235 700		2	4.5	150	150	11	2.3	100	100	2.3	B7	PP
QQ03-12	601 235 144		6		300	250	45	7	100	100		B9A	P
QQCO3/14	412 657 240		3.1		200	200	30	3.2	100	100	3	B9A	PP
QQCO4-15	263 724 540		6	14	200	200	20	2	100	100		B8B	P
QQEO2-5	414 226 573		6.3	50	250	200	45	10.5	No Data Available			B9A	PP
QQEO3-12	414 226 573		6.3	15	200	200	30	3.3	100	100		B9A	PP
QQEO3-20	245 134 200	A1/A2	6	17	400	200	20	2.5	No Data Available			B7A	PP
QQEO4-20	245 134 200	A1/A2	6	26	400	250	30	3	No Data Available			B7A	PP
QQEO6-40	245 134 200	A1/A2	6		400	250	30	3.4	No Data Available			B7A	PP
QQVO2-6	414 226 573		6.3	2.5	150	150	25	10.5	100	100		B9A	PP
QQVO3-10	414 226 573		6	10	200	150	30	3.3	100	100		B9A	PP
QQVO3-20	245 134 200	A1/A2	6.3	17	300	200	20	2.5	100	100		B7A	PP
QQVO3-20A	245 134 200	A1/A2	6.3	17	300	200	20	2.5	100	100		B7A	PP
QQVO3-25	345 124 300	A1/A2	6.3	15	400		40	2.5	No Data Available			B7A	PP
QQVO4-15	245 134 200	A1/A2	6.3	27	400	250	30	3	100	100		B7A	PP
QQVO4-20	241 531 420	A1/A2	6	23	400	200	25	4	100	100		B7A	PP
QQVO6-40	245 134 200	A1/A2	6.3		400	250	30	3.4	100	100		B7A	PP
QQVO6-40A	245 134 200	A1/A2	6.3		400	250	30	3.4	100	100		B7A	PP
QQVO7-40	245 134 200	A1/A2	6.3		300	250	25	1.9	100	100		B7A	PP
QQVO7-50	345 124 300		6.3		400	250	100	4.5	No Data Available			B7A	PP
QQZO3-20	245 1*4 200	A1/A2	1.6		300	250	40	4	No Data Available			B7A	PP
QQZO4-15	273 624 540		3	10	300	200	20	2	100	100	2	B8B	PP
QQZO6-40	245 3*4 200	A1/A2	2.1		200	200	30	4.5	100	100		B7A	PP
Q/U37	023 000 000	D1	1.4						D			B3G	D
Q/U452	230 000 000	D1	2						D			B3G	D
Q/U456	328 000 000		6.3						D			B3G	D
QVO3-12	601 235 144		6	7.5	250	250	45	7	100	150	7	B9A	P
QVO4-7	265 511 413		6	30	300	250	25	1.9	100	100	1.9	B9G	P
QVO4-12	601 235 144		6	7.5	250	250	45	7	100	150	7	B9A	P
QVO4-15	245 134 200	A1/A2	6.3	60	400	250	90		100	100		B7A	PP
QVO4-20	241 531 420	A1/A2	6	22	400	200	25	4	100	100	4	AO8	PP

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
QVO5-25	254 130 000	A1	6	12.5	300	250	83	6.5	100	150	6	UX5	P
QVO6-20	125 141 310	A1	6	28	200	200	100	7	100	100		AO8	P
QW77	412 361 500		6	2.5	200	200	8	2.5	100	100	2.5	B7G	P
QZO6-20	235 242 300		1.6		200	100	100		No Data Available			AO8	T
QZ77	412 361 500		6	2	250	250	10	7.6	100	100	5	B7G	P
R1	892 300 000		4				30		REC		15mA	B4	RR
R2	892 300 000		4				60		REC		30mA	B4	RR
R3	892 300 000		4(5)				60		REC		50mA	B4	RR
R4	892 300 000		4				60		REC		40mA	B4	RR
R4A	892 300 000		4				60		REC		40mA	B4	RR
R4B	802 300 000		4				60		REC		40mA	B4	R
R10	112 311 100	D1	4				5		D			B7G	R
R11	002 300 000	D1	4				5		D			B4	R
R12	023 000 000	D1	6				0 1		D			B3G	D
R13A	028 090 310		13				30		REC		15mA	AO8	RR
R14	028 193 210		26				120		REC		60mA	AO8	RR
R16	123 000 000	D1	1.4				2		D			B3G	D
R17	**1 23* ***	D1	6				120		REC		40mA	B9A	R
R18	**1 23* ***	D1	6				120		REC		40mA	B9A	R
R19	230 232 032	D1	1.2						D			B9A	D
R20	23* 232 *32	D1	2						D			B9A	R
R41	892 300 000		4				60		REC		20mA	B4	RR
R42	892 300 000		4				60		REC		20mA	B4	RR
R43	892 300 000		4				180		REC		40mA	E4	RR
R52	030 809 020		5				60		REC		AO8	20mA	RR
R80	264 300 000		4	24	250		20	4	100		4	UX4	T
R116	026 540 310	G1	10	2.2	200	200	8		100	100		AO8	P
R120	026 040 310		6.3		250		60	6.4	100			AO8	T
R122N	026 510 310	G1	18		200	200	8	5.5	100	100		AO8	P
R123	026 500 310	G1	18		200	200	35	8.5	100	100		AO8	P
R125C	026 890 310	G1	18	5.5	250		5	2.5	100		3	AO8	DDT
R125N	026 890 310	G1	18		250		5	2.5	100			AO8	DDT
R126F	026 510 310	G1	18		200	200	6	1.7	100	100		AO8	P
R126N	026 510 310	G1	18		200	200	6	1.7	100	100		AO8	P
R128	028 190 310		18						D			AO8	DD
R134	026 541 310		18		200	200	18	6	100	100		AO8	P
R142	412 356 010		6.3		200	200	10.5	8.5	100	100		B8D	P
R143	412 356 010		6.3		200	200	8	5.5	100	100		B8D	P
R144	412 361 500		6.3	2	250	250	10	7.6	100	100		B7G	P
R145	412 356 010		18		200	200	8	5.5	100	100		B8D	P
R147	412 356 110		18		200	200	18	6	100	100		B8D	F
R148	641 237 410		18		250		10	5.5	100		5.5	B8D	TT
R150	123 141 516		6.3	1.6	150	150	12.5	16	No Data Available			B9A	P
R236	026 510 300	G1	1.2	2	100	100	1	0.5	100	100	0.5	AO8	P
R242P	400 123 060		6.3	4.5	150		15	4.3	100		5	B5A	T
R244	402 013 060		6.3		150		13		100			B8D	T
R265	412 360 510		6.3		100	100	7.5	5	100	100	5	B8D	P
R271	412 163 510		6.3	2	150	125	5.2	3.2	100	100		B8D	P
R290	020 080 030		1.2				5		D			AO8	D
R2018	642 310 000		20	2.5	200		2.5	3	100		3	B5	T
R5559	6*2 1*1 413		6.3	1.5	150		25	25	No Data Available			B5D	T
RA	892 310 000		13				30		REC		15mA	B5	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
RA1	364 200 000		15	4.5	90		4.5	1.2	80		1.2	UX4	T
RB350/80	892 300 000		4				30		REC		15mA	B4	RR
RB500/120	892 300 000		4				60		REC		20mA	B4	RR
RB650/250	892 300 000		4				120		REC		30mA	B4	RR
RC5B	023 008 060	G1	12.6	0	100		24	6	100		6	8SC	DT
RC5C	023 008 060	G1	2.4	0	100		24	6	100		6	8SC	DT
RE034	642 300 000		4	3	200		2	1.2	100		1	B4	T
RE052	642 300 000		2	3	150		1	1	100		1	B4	T
RE054	642 300 000		4	4	150		4	1.3	100		1.3	B4	T
RE062	642 300 000		2	9	150		4	1	100		1	B4	T
RE074	642 200 000		4	9	150		3.5	0.9	100		0.9	B4	T
RE074D	642 300 000		4	3	150		3.5	0.5	150		0.5	B5	T
RE074N	642 300 000		4	9	150		3.5	0.9	100		0.9	B4	T
RE076	642 300 000		6	9	150		4	1.5	100		1.4	B4	T
RE084	642 200 000		4	4	150		4	1.5	100		1.5	B4	T
RE114	642 300 000		4	15	150		13	1.3	100		1.3	B4	T
RE122	264 300 000		2	4.5	150		3	1.3	100		1.3	UX4	T
RE122	642 300 000		2	19	150		7	1.2	100		1.2	B4	T
RE124	642 300 000		4	18	150		11	1.6	100		1.6	B4	T
RE134	642 300 000		4	17	250		12	2	100		2	B4	T
RE144	642 300 000		4	9	150		2	0.7	100		0.7	B4	T
RE304	642 300 000		4	32	250		20	1.9	100		2	B4	T
RE402B	064 234 700		2	0	150		3		100			B7	TT
RE404	642 300 000		3.5	125	200			0.6	100		1	B4	T
RE604	642 300 000		4	45	250		40	2.5	100			B4	T
REN704	652 310 000	G1	4		100		2	1.2	100		1.1	B5	P
REN904	642 310 000		4	3.5	200		6	2.4	100		2.4	B5	T
REN914	642 310 000		4	1.5	200		0.2		100			B5	T
REN924	642 310 000	D1	4	3	200		6	2	100		2	B5	DT
REN1004	642 310 000		4		200			1.5	100		1.4	B5	T
REN1104	642 310 000		4	16	200		12	1.3	100		1.3	B5	T
REN1814	642 310 000		20	1.6	200		0.2	1	100		1	B5	T
REN1817D	652 310 000	G1	20		100	100		1.1	100	90	1.1	B5	P
REN1821	642 310 000		20	3	200		6	2.3	100		2.3	B5	T
REN1822	642 310 000		20	18	200		15	1.6	100		1.6	B5	P
REN1826	642 310 000	D1	20	3	200		6	1.8	100		1.8	B5	DT
RENS1204	542 310 000	A1	4	2	200	60	4	1	100	60	1	B5	P
RENS1214	542 310 000	A1	4	2.2	200	100	6	1	100	100		B5	P
RENS1224	164 552 300	G1	4	1.5	200	125	3	0.6	100	100		C7	P
RENS1234	165 452 300	G1	4	2	200	75	3	1.8	100	75	1.8	C7	P
RENS1264	542 310 000	A1	4	2	200	100	3	2	100	100		B5	P
RENS1264B1	542 300 000	A1	4	2	200	100	3	2	100	100		B4	T
RENS1274	542 310 000	A1	4		200	100	3	2	100	100		B5	P
RENS1284	542 310 000	A1	4	2	200	100	3	2.5	100	100		B5	P
RENS1294	542 310 000	A1	4	2	200	100	4.5	2	100	100		B5	P
RENS1374D	642 310 00	G2	4	18	250	250	24	2.5	100	100		B5	P
RENS1384	642 310 000	G2	4	22	250	250	36	2.8	100	150	2.9	B5	P
RENS1818	542 310 000	A1	20	2	200	100	3	2	100	100		B5	P
RENS1819	542 310 000	A1	20		200	60	4	1	100	60		B5	P
RENS1820	542 310 000	A1	20	2	200	60	4	1	100	60	1	B5	P
RENS1823D	642 310 000	G2	20	18	200	200	20	1.7	100	100		B5	P
RENS1884	542 310 000	A1	20	2	200	100	3	2.4	100	100		B5	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
RENS1894	542 310 000	A1	20	2.2	200	100	4	1.8	100	100		B5	P
RES094	542 300 000	A1	4	2	200	75	4	7	100	75		B5	P
RES105	642 300 000	G2	5	15	200	150	12	1.3	150	100	1.3	B4	P
RES164	642 350 000		4	11.5	250	75	12	1.4	100	75		B5	P
RES174D	642 300 000	G2	4	19	250	150	12	1.3	100	100		B4	P
RES212	642 350 000		2	4.4	150	125	6	2.2	150	100	2.2	B5	P
RES364	642 350 000		4	2.5	300	200	20	1.7	100	100		B5	P
RES374	642 350 000		4	42	300	200	20	1.5	No Data Available			B5	P
RES664D	642 350 000		4	40	400	200	30	1.9	100	100	1.9	B5	P
RES964	642 350 000		4	15	250	250	36	2.8	No Data Available			B5	P
RFG5	003 200 000	D1	6						D			F8	R
RFP8/14	041 231 500	A1	4	20	400	250	35	4	100	150	4	B7	P
RFP8/14	542 310 000	A1	4	20	400	250	35	4	100	150	4	B5	P
RG250/1000	002 300 000	D1	4				120		REC		30mA	B4	R
RG250/3000	280 300 000		2.5				120		REC		30mA	UX4	R
RGN354	802 300 000		4				15		D			B4	R
RGN504	892 300 000		4				15		D			B4	RR
RGN564	802 300 000		4				30		REC		15mA	B4	RR
RGN1054	892 300 000		4				30		REC		15mA	B4	RR
RGN1064	892 300 000		4				30		REC		15mA	B4	RR
RGN1074	892 300 000		4				60		REC		20mA	B4	RR
RGN1304	802 300 000		4				60		REC		20mA	B4	R
RGN1404	082 300 000		4				120		REC		20mA	B4	R
RGN1503	892 300 000		2.5				30		REC		15mA	B4	RR
RGN2004	892 300 000		4				60		REC		20mA	B4	RR
RGN2504	893 300 000		4				60		REC		20mA	B4	RR
RGN4004	892 300 000		4				120		REC		20mA	B4	RR
RH	061 231 500	G1	4	1.7	250	100	7.9	7	200	100	7.4	B7	P
RK10	264 300 000		7.5	100	350		50		No Data Available			UX4	T
RK15	264 300 000		2.5	33	250		22	2.3	100		2.3	UX4	T
RK16	264 130 000		2.5	28	250		26	2.6	100		2.6	B4	T
RK19	200 300 000	D1/D2	7.5				120		REC		30mA	UX4	RR
RK21	200 300 000	D1	2.5				120		REC		30mA	UX4	R
RK24	364 200 000		2	13.5	200		8	1.6	100		1.6	UX4	T
RK39	254 130 000	A1	6	14	300	250	83	6.5	100	150		UX5	P
RK60	200 300 000	D1/D2	5				120		REC		30mA	UX4	RR
RL2T2	236 400 000		1.9	1.5	100		15	2.4	100		2.4	5A A	T
RL7	265 114 113		6	1.7	250	250	10	7.7	100	150	7	B9G	P
RL12P2	265 114 113		12.6	6	150	150	15	2.3	100	100		B9G	P
RL15A	510 423 206		2.4	20	350	200	57		No Data Available			B9A	P
RL16	241 600 003		6	2.5	250		10	6.5	100		5	B9G	T
RL18	123 000 000		6	3.3	200		7.5	2.9	100		2.9	B3G	T
RL37	244 664 413		6	1.5	250		10	9	100		7	B9G	T
RO337	892 300 000		2.5				30		REC		15mA	B4	RR
RO423	892 300 000		2.5				30		REC		15mA	B4	RR
RO431	892 300 000		4				60		REC		20mA	B4	RR
RO443	892 300 000		4				60		REC		20mA	B4	RR
RO446	892 300 000		4				30		REC		15mA	B4	RR
RO452	892 300 000		4				60		REC		20mA	B4	RR
RO457	892 300 000		4				60		REC		20mA	B4	RR
RO481	802 300 000		4				120		REC		30mA	B4	R

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
RO534	892 300 000		5				60			REC		20mA	B4	RR
RO771	802 300 000		7.5				120			REC		30mA	B4	R
RRAF	642 300 000		4	2	100		4	1.4		100		2	B4	T
RRBF	642 300 000		4	2.5	100		10	1.2		100		2	B4	T
RS	802 310 000		3				60			REC		20mA	B5	R
RS242	642 300 000		3.8	5	400		70	3		100		3	B4	T
RS1009	245 134 200	A1/A2	6	25	400	250	30	3.4		100	100		B7A	PP
RS1019	245 134 200	A1/A2	6	20	400	250	20	2.5		100	100		B7A	PP
RSAF	542 300 000	A1	4	1	150	75	4.5	1.2		100	75	1.2	B4	T
RT1-2	642 300 000		4	2.6	150		26	2.5		100		2.5	B4	T
RT2	642 300 000		4	4	200		18	1.7		150		1.7	B4	T
RT3	642 300 000		4	2.3	300		15	2.8		100		2.8	B4	T
RTR4141	026 510 310	G1	5.2	3	250	100	2.5	1.2		100	100		AO8	P
RTR4142	026 510 310	G1	5.2	8	150	125	15	2.7		100	100		AO8	P
RTR4341	061 231 500	G1	21	2.2	150	8	8	8		100	125	8	B4	P
RTR4342	005 231 600	G1	21	5.8	150	125	48	9		100	125	8	B7	P
RV12P2000	450 612 310		12.6	2.3	200	75	1.8	1.5		100	60		B7	P
RV120/250	892 300 000		4				60			REC		20mA	B4	RR
RV120/350	892 300 000		4				60			REC		20mA	B4	RR
RV120/350S	023 080 090		4				60			REC		30mA	8SC	RR
RV120/500	892 300 000		4				60			REC		20mA	B4	RR
RV120/500S	023 080 090		4				60			REC		20mA	8SC	RR
RV200/600	892 300 000		4				120			REC		30mA	B4	RR
RV210	042 310 000	A1	4	53	400		70	5.8		No Data Available			B5	T
RX21	200 030 000	D1	2.5				120			REC		30mA	UX5	R
RX215	389 200 000		2.5				5			D			UX4	RR
RZ	023 100 080		20				60			REC		20mA	8SC	R
S2	542 300 000	A1	2	1	150	60	2.3	1.1		125	60	1.1	B4	P
S2P20	601 225 413		5	10	150	150	28	4.4		100	100		B9A	P
S4V	542 310 000	A1	4	1	200	75	1.5	1.1		100	75	1.1	B5	P
S4VA	542 310 000	A1	4	1.5	200	100	2.8	2		100	100	2	B5	P
S4VB	542 310 000	A1	4	1.5	200	125	4.6	2.5		100	100	2.5	B5	P
S6F12	412 361 500		6	2	250	250	10	7.5		100	100		B7G	P
S6F17	412 361 500		6	5	100	100	12.5	4		100	100		B7G	P
S6F33	412 361 500		6.3	3.3	200	200	7.1	4		100	100		B7G	P
S11A	892 300 000		4				30			REC		15mA	B4	RR
S11D	892 300 000		4				60			REC		20mA	B4	RR
S11E12	*26 541 310		6.3	20	300	150	90	10		No Data Available			AO8	P
S12	542 300 000	A1	2	1	100	30	2.5	0.7		No Data Available			SM4	P
S19G6	*12 3** *00	D1	4				30			REC		15mA	B7G	R
S19G6F	*12 3** *00	D1	4				30			REC		15mA	B7G	R
S21	542 300 000	A1	2	1.5	150	75	2	1.1		100	75	1.1	B4	P
S22	542 300 000	A1	2	1.5	150	75	1.5	1.7		125	75	1.7	B4	P
S23	542 300 000	A1	2	1.5	150	75	2.8	1.1		150	75	1.1	B4	P
S24	542 300 000	A1	2	1	150	75	3.2	1.4		150	75	1.4	B4	P
S30C	642 300 000		4	38	300		50	5		100		5	B4	T
S30D	642 300 000		2	38	300		50	5		100		5	B4	T
S207	542 300 000	A1	2	1.5	200	100	3	0.7		100	100	0.7	B4	P
S208	542 300 000	A1	2		200	100	2	0.8		100	100	0.8	B4	P
S209	023 010 560	G1	2	0.5	150	125	2.4	0.7		125	125	0.7	8SC	P
S210	642 300 000	G2	2	1.5	150	90	3	1.2		100	90	1	B4	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
S213	542 300 000	A1	2	0.5	150	90	3	1.3	100	90	1.3	B4	P
S215	542 300 000	A1	1	1	150	90		0.9	100	90	1.5	B4	P
S215A	542 300 000	A1	2	1	150	60	2	1.1	150	60	1.1	B4	P
S215B	542 300 000	A1	2	1	150	60	1.5	1.2	150	60	1.2	B4	P
S215VM	542 300 000	A1	2	1.4	150	60	1	0.8	150	60	1.4	B4	P
S217	041 230 500	A1	2	0.5	150	150	2.5	1.7	150	150	1.7	B7	P
S217	542 300 000	A1	2	0.5	150	150	2.3	1.7	100	150	1.7	B4	P
S218	041 230 500	A1	2	0.5	150	150	3	1.9	100	150	1.8	B7	P
S220	542 300 000	A1	2		150	75	4	1.1	150	75	1.1	B4	P
S310A	265 113 000	G1	10	3	150	150	5.5	1.9	100	100	1.9	UX6	P
S311A	265 130 000	G1	10	15	150	150	30	2.8	100	100	2.8	UX5	P
S328A	265 113 000	G1	7.5	3	150	150	5.5	1.9	100	100	1.9	UX6	P
S329A	265 130 000	G1	7.5	15	150	150	30	2.8	100	100	2.8	UX5	P
S329L	265 113 000	G1	7.5	50	150	125	30	2.8	No Data Available			UX6	P
S406/7	542 300 000	A1	4	2	200	150	1.5	1	100	100	1	B4	P
S408	542 300 000	A1	4	1.5	200	75	4	0.7	100	75		B4	P
S409	542 300 000	A1	4	1.5	200	75	4	8.8	100	75		B4	P
S410	542 300 000	A1	4	1.5	200	75	4	1	100	75		B4	P
S410N	542 310 000	A1	4	2	200	60	4	1	100	60	1	B5	P
S412N	542 310 000	A1	4	1.3	200	100	1.5	1	100	100	1	B5	P
S415N	542 310 000	A1	4	2	200	100	6	1	100	100	1	B5	P
S420	061 231 500	G1	4	3	250	250	11.5		100	200		B7	P
S423	023 110 560	G1	4	3	250	100	8	1.8	250	100	1.9	8SC	P
S424	023 110 560	G1	4	2	250	100	3	2.1	250	100	2.1	8SC	P
S430N	542 310 000	A1	4	1.3	200	100	1.5	0.9	100	100	3	B5	P
S431N	542 310 000	A1	4	1.5	250	100	3	2	100	100		B5	P
S432N	023 110 560	G1	4	3	250	100	2.5	2.2	100	100		8SC	P
S434N	542 310 000	A1	4	2	200	100	4.5	2.3	100	100	2.3	B5	P
S434N	041 231 500	A1	4	1.5	200	100	4.5	2	100	100	2	B7	P
S435N	041 231 500	A1	4	2	200	100	3	2.3	200	200	2.3	B7	P
S435N	542 310 000	A1	4	2	200	100	3	2.3	100	100	2.3	B5	P
S440	061 231 500	G1	4	2.4	250	250	4.1	3.5	100	200	3.4	B7	P
S493	542 310 000	A1	4	2	200	100	4		100	100		B5	P
S495	542 310 000	A1	4	2	200	100	6	2.5	100	100	2.5	B4	P
S617	023 110 560	G1	6.3	3	250	100	2.5	2.2	100	100		8SC	P
S620	023 110 560	G1	6.3	2.5	250	100	3.5	2	100	100		8SC	P
S629	023 110 560	G1	6.3	2.5	250	100	3.5	2	100	100		8SC	P
S1323	061 231 500	G1	13	3	200	100	8	1.9	100	100	1.9	B7	P
S1323	023 110 560	G1	13	3	200	100	8	1.9	100	100	1.9	8SC	P
S1324	061 231 500	G1	13	2	200	100	3	2.4	100	100	2.3	B7	P
S1327	023 110 560	G1	13	2.5	250	100	3.5	2	100	100		8SC	P
S1328	023 110 560	G1	13	2	200	100	3	2.4	100	100	2.3	8SC	P
S2010N	542 310 000	A1	20	2	200	60	4	1	100	60	1	B5	P
S2012N	542 310 000	A1	20	2	200	60	4	1	150	60	1	B5	P
S2018	041 231 500	A1	20	3	200	60	4	1.2	100	60	1.2	B7	P
S2018	542 310 000	A1	20	3	200	60	4	1.2	100	60	1.2	B5	P
S2030N	542 310 000	A1	20	2	200	100	3	2	150	100	2	B5	P
S2035N	542 310 000	A1	20	2.5	250	100	3.5	2	100	100		B5	P
S2043	542 310 000	A1	20	2.5	250	100	5	2	100	100		B5	P
S4020A	254 300 000		2	1	150		1.3	0.6	100		0.6	UX4	T
S4020B	642 300 000		2	1	150		1.3	0.6	100		0.6	UX4	T
S4021A	264 300 000		4	8	150		20	3	100		3	UX4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
S4021B	642 300 000		4	8	150		20	3	100		3	B4	T
S4022AR	236 400 000		4	4.5	150		5	2.2	100		2.2	UX4	T
S4022B	642 300 000		4	4.5	150		5	2.2	100		2.2	B4	T
S4045A	642 350 000		5	70	250	75	45	1.5	100	60	1.5	B5	P
SD	892 310 000		5						D			B5	DD
SD2	642 300 000		2	1.5	150		2.2	1.4	150		1.4	B4	T
SD6	*82 310 *00		6				5		D		6mA	B7G	R
SD61	123 000 000	D1	6				5		D			B3G	D
SD917A	402 013 060		6.3	3.6	100		1.4	2.7	100		2.7	B8A	T
SE211	542 300 000	A1	2	1	150	75	1	1.5	150	75	1.5	B4	P
SE211C	542 300 000	A1	2	1	150	75	1	1.5	150	75	1.5	B4	P
SE2018	542 310 000	A1	20	3	200	60	4	1.2	100	60	1.2	B5	P
SE2118	542 310 000	A1	20	24	200	100	3	3	100	60	3	B5	P
SG2	542 300 000	A1	2		150	75	2.5	1	100	75	1	B4	P
SG215	542 300 000	A1	2	1.5	150	75	2.7	1	100	60	1	B4	P
SG215VM	542 300 000	A1	2	1.5	150	75		1.5	125	80	1.4	B4	P
SG220SW	652 300 000	G1	2	1.5	150	75	2.4	1.5	150	75	1.5	B4	P
SG2150	542 300 000	A1	2	1.5	150	75	1.5	1.1	125	60	1.1	B4	P
SGA1	542 310 000	A1	4		200	100	6	3	100	100	3	B5	P
SN954	082 813 080		6.3				30		REC		15mA	B8A	R
SN956B	023 880 000		1.2						D			B3G	D
SN1007	412 163 510		6.3	0.8	100	100	5.3	3.2	100	100	5.3	B8A	P
SN1039A	412 365 100		6.3	1.4	100	100	7	5.1	100	100	5	B7G	P
SO1	264 300 000		15	40.5	200		21	1.5	100		1.5	UX4	T
SO2	264 300 000		7.4	88	400		55	2.1	100		2.1	UX4	T
SO401	002 300 000	A	4		400			2	No Data Available			B4	T
SP2	041 230 500	A1	2		150	150	3	1.8	150	150	1.8	B7	P
SP2B	061 230 500	G1	2	1	150	150	2.6	0.8	150	150	0.8	B7	P
SP2BS	032 004 560		2	0.5	150	150	2.6	0.8	150	150	0.8	8SC	P
SP2D	061 230 500	G1	2	1	150	150	1.4	1.7	150	150	1.7	B7	P
SP2D	542 300 000	A1	2	1	150	125	1.5	1.7	125	100	1.7	B4	P
SP2V	041 230 500	A1	2		150	75	2.9	1.1	100	75	1	B7	P
SP4(TUNG)	061 231 500	G1	4	2	200	100	3	2.3	100	100	2.3	B7	P
SP4(MUL)	041 231 500	A1	4	2	200	100	3	2.3	100	100	2	B7	P
SP4	542 310 000	A1	4	2	200	100	3	2.3	100	100	2.3	B5	P
SP4A	041 231 500	A1	4	2	250	100	3	2.4	100	100	2.4	B7	P
SP4B	061 231 500	G1	4	2.4	250	250	4	3.4	100	100	3.4	B7	P
SP4C	023 110 560	G1	4	2.4	250	250	4	3.4	100	100	3.4	8SC	P
SP4S	023 110 560	G1	4	2	250	100	3	2.5	100	150	2.5	8SC	P
SP6	412 361 500		6	1.4	250	250	10	7.5	100	PenLF	5	B7G	P
					200	150	4	6.4	100	PenLF	5		
SP6S	023 110 560	G1	6	2	250	100	3	2	100	100	2	8SC	P
SP13	061 231 500	A1	13	2	200	100	3.3	2.2	100	100	2.2	B7	P
SP13	023 110 560	G1	13	2	200	100	3.3	2.2	100	100	2.2	8SC	P
SP13C	061 231 500	G1	13	2.2	200	200	2.5	2.8	100	150	2.8	B7	P
SP13S	023 110 560	G1	13	2	150	100	3	2.4	100	100	2.4	8SC	P
SP20	542 310 000	A1	20		200	100	4.5	3.5	100	100	3.5	B5	P
SP22	206 510 030	G1	2	1	150	125	1.1	1.2	125	100	1.2	MO8	P
SP35	023 110 560	G1	35	8	200	200	41	7	100	150	7	8SC	P
SP41	216 510 030	G1	4	1.5	200	200	10.9	8.5	100	150	8	MO8	P
SP42	216 510 030	G1	4	1.3	200	125	20	8.4	100	100	8	MO8	P
SP61	216 510 030	G1	6	1.5	200	200	10.9	8.5	100	150	8	MO8	P
SP62	216 510 030	G1	6	1.3	200	100	16	9	200	100	8	MO8	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE	
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
SP65	023 110 560	G1	6	2	250	100	3	2.1	100	100	2.1	8SC	P	
SP141	206 500 030	G1	1.4	1	90	90	1.3	0.8	80	90	0.8	MO7	P	
SP181	216 510 030	G1	18	1.5	200	200	10.9	8.5	100	150	8	MO8	P	
SP210	041 230 500	A1	2	1	125	125	1.1	1.2	125	100	1.2	B7	P	
SP215	041 230 500	A1	2	1.5	150	80	2.1	1.6	100	75	1.6	B7	P	
SP220	642 300 030		2	12	150		14	3	100		3	B4	T	
SP514	402 106 053		6.3	1.7	150	150	12.3	13.5	No Data Available			B9A	P	
SP804E	211 043 000	A	6.3	15	400	40	4		No Data Available			UX6	T	
SP804F	211 043 000	A	6.3	15	400		40	4	No Data Available			UX6	T	
SP1320	041 231 500	A1	13	1.5	150	100	4.4	2	100	100	2	B7	P	
SP2220	041 231 500	A1	22	3	250	200	4.9	2.7	100	150	2.6	B7	P	
SPT2	041 230 500	A1	2	1	125	125	2.8	1.5	125	100	1.5	B7	P	
SPT4A	041 231 500	A1	4	1.5	250	100	2	2.3	200	100	2.3	B7	P	
SPTA	041 231 500	A1	13	2.5	200	100	2.2	1.4	100	100		B7	P	
SPTA	061 231 400	G1	13	2.5	250	100	2.2	1.4	100	100		B7	T	
SPTS	041 231 500	A1	13	1.5	250	100	2	3	100	100	3	B7	P	
SR2	642 300 000		2	16	200		10	3	100		3	B4	T	
SR4	642 310 000		4	20	250		20	4	100		4	B5	T	
SRS4451	245 134 200	A1/A2	6	25	400	250	30	3.4	No Data Available			B7A	PP	
SS210	542 300 000	A1	2	1	150	75	0.6	1.4	150	75	1.4	B4	P	
SS210C	542 300 000	A1	2	1	150	175	0.6	1.4	150	75	1.4	B4	P	
SS210D	642 300 000		2	4.5	150		2	1.6	100		1.6	B4	T	
SS210DDT	682 390 000	G1	2	5.5	150		2.4	1.4	100		1.4	B5	DDT	
SS210HF	642 300 000		2	4	150		1	0.8	100		0.8	B4	T	
SS210HL	642 300 000		2	1.5	150		21.4	12.5			1.4	B4	T	
SS220P	642 300 000		2	12	150		6	1.5	100		1.5	B4	T	
SS220PA	642 300 000		2	6	150		8	3.5	100		3.5	B4	T	
SS220SP	642 300 000		2	12	150		14	3.5	100		3.5	B4	T	
SS240SP	642 300 000		2	12	150		15	3.5	100		3.5	B4	T	
SS2018	542 310 000	A1	20	3	200	100	3	3	100	90	3	B5	P	
ST507	602 441 443		6.3	1.2	150		23	25	No Data Available			B9A	T	
SU25	*2* 0** 3*0	D1	2						D			AO8	D	
SU42	030 000 020	D1	4						D			AO8	R	
SU45	112 311 100	D1	4				30		REC			15mA	B7G	R
SU61	023 000 000	D1	6				0 35		D			B3G	D	
SU2130	002 300 000	D1	2				2		D			B4	R	
SU2150	002 300 000	D1	2(2.5)				2		D			B4	R	
SU2150A	002 300 000	D1	2(2.5)				5		D			2mA	B4	RR
SU3130	002 300 000	D1	2						D			B4	D	
SW1	802 300 000		4				30		REC			15mA	B4	R
SWG2	652 300 000	G1	2		150	75		1.5	100	75	1.5	B4	P	
T2	642 300 000		2	1	100			1	100		1	B4	T	
T2MO5	672 344 100		6	{ 0 3	100 150		8.5 5	5.3 4.5	100 100		5.3 5.3	B7G	TT	
T4D	123 000 000	D1	4				5		D			B3G	D	
T5D	123 000 000	D1	6				5		D			B3G	D	
T6D	213 000 000	D1	6.3				5		D			B3G	R	
T13U	023 100 060	G1	13	4	200		5.9	2.6	100		2.6	8SC	T	
T41	216 040 030		4		100		30	2kΩ	No Data Available			MO8	THY	
T113	642 300 000	G2	3	3	12	12	0.2	0.2	No Data Available			B4	P	
T116	642 300 000	G2	1.2	3	12	12	0.2	0.2	No Data Available			B4	P	
T134	542 300 000	A1	4	1	150	75	5	1.3	100	75		B4	P	
T136	642 300 000		4	8	200		6	1.6	100		1.6	B4	T	

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
T151	642 300 000	G2	4	15	200	150	12	1.8	100	100		B4	P
T204	023 004 060		2	1	150		1.8	0.6	125		0.6	8SC	T
T223	023 004 060		2	2	125		3	2.5	100		2.5	8SC	T
T435	023 100 060	G1	4	5	250		6	2.5	100		2.4	8SC	T
T460	023 004 060		4	45	250		60	6	100		6	8SC	T
T635	023 100 060	G1	6.3	16	250		20	2.2	100		3	8SC	T
T1335	023 100 060	G1	13	4.5	225		6	2.5	100		2.4	8SC	T
TB13	802 310 000		13						D			B5	D
TBO32	642 300 000		2	30	150		12	1.5	100		1.5	B4	T
TBO52	642 300 000		2	15	150		7	1.2	100		1.2	B4	T
TBO62	642 300 000		2	10.5	150		13	2	100		2	B4	T
TB102	642 300 000		2	4	150		5	1.3	100		1.2	B4	T
TB122	642 300 000		2	4.5	150		6	3.5	100		3.5	B4	T
TB172	642 300 000		2	4.5	150		4	1.4	100		1.4	B4	T
TB282	642 300 000		2	1.5	150		2	1.3	125		1.3	B4	T
TB432	446 230 700		4		150		6		150			B7	TT
TB452	542 300 000	A1	2		150	75	2	1.5	150	75	1.5	B4	P
TB552	542 300 000	A1	2		150	75	4	1.5	150	75	1.5	B4	P
TB622	542 300 000	A1	2		150	90	2	1.4	100	90	1.4	B4	P
TB9920	642 310 000		20	1.5	200		0.2	4	150		4	B5	T
TBC14	809 231 600	G1	4	7	250		4	2	100		2	B7	DDT
TBC113	809 231 600	G1	13	5	200		4	3.6	100		3.6	B7	DDT
TCO5-25	642 300 000		4		400		65	2.2	No Data Available			B4	T
TC432	642 350 000		2	4.5	150	150	9.5	2.5	100	100	2.5	B5	P
TC432	642 300 000	G2	2	4.5	150	150	9.5	2.5	100	100	2.5	B4	P
TDO5-12	*21 010 310	A1/G1	6		150		10	4	100			AO8	T
TDO44	642 300 000		4	40	250		40	3	100		3	B4	T
TD2	642 300 000		2	7	150		4	0.9	100		0.9	B4	T
TDD1C	023 189 060		13	5	200		4	2	100		2	B7	DDT
TDD2	682 390 000	G1	2	5.5	150		2.5	1.4	100		1.4	B5	DDT
TDD2A	682 390 000	G1	2	1.5	150		2	1.2	125		1.2	B5	DDT
TDD4	908 231 600	G1	4	7	250		4	2	100		2	B7	DDT
TDD13	023 189 060	G1	13	1	100			2.9	100		2.9	8SC	DDT
TDD13C	809 231 600	G1	13	5	200		4	2	100		2	B7	DDT
TDD25	809 231 600	G1	25	1	100		4	2	100		2	B7	DDT
TE2	028 090 310		26				30		REC		15mA	AO8	RR
TE3	028 090 310		12				30		REC		15mA	AO8	RR
TE5	028 090 310		6.3				30		REC		15mA	AO8	RR
TEO94	642 310 000		4	16	200		12	1.3	100		1.3	B5	T
TE104	642 300 000		4	26	400		61	4	100		4	B4	T
TE244	642 310 000		4	3.5	200		6	2.4	150		2.4	B5	T
TE384	642 310 000		4	2	200		3	1.5	150		1.5	B5	T
TE424	542 310 000	A1	4		200	100	3	2	100	100	2	B5	P
TE434	642 350 000		4	14	250	250	36		100	150		B5	P
TE464	041 231 500	A1	4		200	100	3	2.5	100	100	2.5	B7	P
TE474	041 231 500	A1	4	1.5	200	100	4.5	2	100	100	2	B7	P
TE534	642 310 000	G2	4	15	250	250	24		100	150		B5	P
TE564	041 231 500	A1	4	1.5	200	100	4.5	2.2	100	100	3.2	B7	P
TE634	045 231 600		4	22	250	250	36		100	100		B7	P
TE994	642 310 000		4	1.6	250		4	4	200		4	B5	T
TF64	061 231 500	G1	4	2.7	250	250	11	2	200	150	2	B7	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
TF104	642 300 000		4	36	400		61	4	100		4	B4	T
TH1	276 454 300		6.3	4	100		4		100	60		B8B	TH
					250	150	4		100	100			
TH2	645 230 700	G1	2	1.5	150		0.95	1.2	100	60	1.2	B7	TH
					250	75	4		125	60	0.7		
TH4	645 231 700	G1	4	2	150		6	1.2	150	60	1.2	B7	TH
					200	100	3.5		200	75	3.0		
TH4A	645 231 700	G1	4	4.6	100		5	2.0	125	60	6	B7	TH
					250	100	3.5		200	100	3.0		
TH4B	645 231 700	G1	4	3	100		9	3.8	100	60	5.5	B7	TH
					250	100	3.25		200	100	3.5		
TH13C	645 231 700	G1	13	2	150		6	1.2	100	60	1.2	B7	TH
					250	75	4.0	1.8	200	75	3.6		
TH21C	645 231 700	G1	21	2	150		6	1.2	100	60	1.2	B7	TH
					250	75	4	1.8	100	75	3.0		
TH22C	645 231 700	G1	29	2	150		5	6	100	60	5	B7	TH
					250	100	3.5		200	75	3.0		
TH29	645 231 700	G1	29	2	100		12.0	4.5	100	60	5	B7	TH
					250	100	3.5		200	75	3.0		
TH30	645 231 700	G1	30	2	100		9.5	5.5	100	60	5.5	B7	TH
					150				100	60			
TH30C	645 231 700	G1	29	2.5	250	100	3.5		100	100		B7	TH
					250	100	3.25		100	100			
TH31	217 640 530	G1	4	3	100		10.2	4	100	60	5.3	MO8	TH
					250	100	3	3	100	90	3		
TH41	217 640 530	G1	4	3	100		10.2	4	100	60	5.3	MO8	TH
					250	100	3	3.1	100	100	3.1		
TH62	027 546 310	G1	6	2	100		4.4	2.4	100	60	2.2	AO8	TH
					250	100	3		200	100	1.2		
TH232	645 231 700		23	3	75		4.5		100	60		B7	TH
					150	100	3		100	100			
TH233	217 640 530	G1	23	2	100		14	2.1	100	60	4	MO8	TH
					150	100	2.6	3	100	90	3		
TH401	174 652 300	G1	4	2	150		11	2	100	60	2	C7	TH
					75	75	2.5		80	75			
TH2320	645 231 700	G1	23	3	100		4.5	5.3	100	60	5.3	B7	TH
					150	100	3		100	100	3.8		
TH2321	645 231 700	G1	23	2	100		4	5.2	100	60	5.3	B7	TH
					150	100	2.6	3	100	100	3		
TH2620	645 231 700	G1	26	1	100			5.3	100	60	5.3	B7	TH
					250	100	3.9	250	100	3.8			
ØTMO5	672 344 100		6	0.8	100		8.5	5.3	100		5.3	B7G	TT
					150		5	4.5	100		5.3		
TM12	412 344 600		6.3	3	150		15	12	No Data Available			B7G	T
					150		1.5	1.4	100	60	1.4		
TP4	571 231 640	G1	4	5	250	200	5.5	1.6	200	150	1.5	B9	TP
					100		0.8	1.2	100	60	1.4		
TP22	571 230 640	G1	2	1	150	60	1.2	1	150	60	1.3	B9	TP
					100								
TP23	645 230 700	G1	2	1	100		4.5	2.1	100	60	2.1	B7	TP
					150	60	1	1	125	60	1.2		
TP25	207 640 530	G1	2	1	100		3.7	1.5	100	60	1.7	MO8	TP
					150	60	1	1	125	60	1		
TP26	207 640 530	G1	2	1	150		2.2	1.5	125	60	1.3	MO8	TP
					150	75	1.5	1.5	125	75	1.5		
TP230	561 230 740	G1	2	1	100		20	1.1	100	60	1.1	B9	TP
					150	75	4.3	1.3	150	75	1.3		
TP443	642 350 000		4	22	250	250	36	5	100	150	5	B5	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
TP1340	571 231 640	G1	13	{ 6	200		2	1.4	150	60	1.4	} B9	TP
TP2620	571 231 640	G1	26		250	250	6.5	2.1	100	100			
TS49	261 504 130		20	{ 2.5	250		1.5	1.4	100	60	1.4	} B9	TP
TS51	412 365 100		6	4	250	200	6.5	3.4	100	150	3.4		
ØTS52	672 344 100		6	{ 0.8	150		8.5	5.3	100		5.3	} B7G	TT
					3	150		5	4.5	100			
TS53	541 236 **1		18	1.8	200	100	15	10	100	100	8	B9A	P
TS54	541 236 **1		6.3	1.7	200	125	10	9	100	100	8	B9A	P
TSE4	061 231 500	G1	4	2.5	250	150	8	14.5	100	100		B7	P
TSP4	061 231 500	G1	4	2.5	200	200	8	4.7	100	150	4.7	B7	P
TT2	222 833 390		4.4						D			AO8	DD
TT4	642 310 000		4	16	250		20	3.2	100		3.2	B5	T
TT4A	642 310 000		4	9	250		20	4.1	100		4.1	B5	T
TT11	020 450 310	A1	6	11	250	150	30	3.5	100	100	3.5	AO8	P
TT12	204 531 102	A1	19	13	250	250	72	6	100	100	6	B9G	P
TT14	204 051 103	A1	6	13	250	250	72	6	100	100	6	B9G	P
TT15	241 657 143		6	14	250	150	30	3.9	100	100	3.9	B9G	PP
TT19	241 657 143		19	16.5	250	150	30	3.9	100	100	3.9	B9G	PP
TT20	245 134 200	A1/A2	6	17	400	200	20	2.5	100	100		B7A	PP
TT21	020 540 310	A1	6.3	30	300	300	80	7	No Data Available			AO8	P
TT22	020 540 310	A1	12.6	30	300	300	80	7	No Data Available			AO8	P
TT23	414 226 573		6.3		150	150	25	10.5	100	100		B9A	PP
TT24	414 226 573		6.3		250	200	30	3.3	100	100		B9A	PP
TT25	245 617 342	A1/A2	6.3		400	250	30	3.4	No Data Available			B7A	PP
TT210	023 074 460		2		150		1.5		80			8SC	TT
TVO3-10	442 310 000	A1/A2	6	17	300		17	3.2	100		3	B5	TT
TW1	802 310 000		20				60		REC		20mA	B5	R
TW2	892 310 000		30				60		REC		20mA	B5	RR
TX4	645 231 700	G1	4	{ 5	150		9	1.5	150	60		} B7	TH
TX21	645 231 700	G1	21		1.5	300	90	5.5	2.5	200	90		
TX41	645 231 700	G1	4	{ 2	150		15		100	60	1.5	} B7	TH
					1.5	250	90	5.5	200	75	3		
TY86F	23* 232 *32	D1	7.5	{ 3	100		9	3.8	100	60	5	} B7	TH
					2.5	250	100	3.2	250	100			
TZ40	204 300 000	A1	7.5	1	100			0.4	D			B9A	R
U4C	642 300 000		4	12	200		35	3.2	100		3.2	B4	T
U4E	642 300 000		4	40	400		45	4	No Data Available			B4	T
U4F	642 300 000		4	40	400		45	4	No Data Available			B4	T
U5	892 300 000		5				15		REC		15mA	B4	RR
U8	892 300 000		7.5				60		REC		20mA	B4	RR
UP	892 300 000		4				30		REC		15mA	B4	RR
U10	892 300 000		4				30		REC		15mA	B4	RR
U12	892 300 000		4 (5)				60		REC		20mA	B4	RR
U12/14	892 300 000		4 (5)				60		REC		30mA	B4	RR
U14	892 300 000		4				60		REC		20mA	B4	RR
U15	802 300 000		6				120		REC		30mA	B4	R
U16	002 300 000	D1	2				5		REC		5mA	B4	R
U17	002 300 000	D1	5				30		REC		15mA	B4	R
U18	892 300 000		4 (5)				120		REC		30mA	B4	RR
U18/20	892 300 000		4 (5)				120		REC		30mA	B4	RR

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				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
U19	002 300 000	D1	4 (5)				120		REC		40mA	B4	R
U19/23	002 300 000	D1	4				120		REC		30mA	B4	R
U20	892 300 000		4 (5)				60		REC		20mA	B4	RR
U21	002 300 000	D1	2				5		REC		5mA	B4	R
U22	200 000 030	D1	2 (3)				5		D			MO8	R
U22FH	200 000 030	D1	2						D			MO8	D
U23	002 300 000	D1	4 (5)				120		REC		30mA	B4	R
U24	030 000 200	D1	2				1		REC		2mA	AO8	R
U25	023 000 000	D1	2				120		D			B3G	D
U26	391 221 800		13				60		REC		20mA	B7	RR
U26	231 232 132	D1	2				0.2		D			B9A	D
U27	002 300 000	D1	4				30		REC		15mA	B4	R
U29	002 300 000	D1	2				5		D		30mA	B5	R
U30	391 221 800		13				60		REC		30mA	B7	RR
U30/250	802 300 000		4				30		REC		15mA	B4	R
U31	020 080 310		26				120		REC		50mA	AO8	R
U33	002 300 000	D1	2				2		D			B4	R
U35	020 000 030	D1	1.4				2		D			AO8	R
U37	023 000 000	D1	1.4				0.5		D			B2G	D
U41	*2* 0*0 3*0	D1	1.2				1		D			AO8	D
U43	023 000 000	D1	6				0.5		D			B2G	D
U45	230 000 000	D1	6				0.35		D			B3G	R
U47	230 000 000	D1	2				0.1		D			B3G	R
U49	230 232 032	D1	2				0.2		D			B9A	D
U50	020 908 030		5 (5.7)				60		REC		30mA	AO8	RR
U51	030 908 020		5				120		REC		30mA	AO8	RR
U52	030 908 020		5 (5.7)				120		REC		30mA	AO8	RR
U52IT	008 090 230		5 (5.7)				120		REC		30mA	AO8	RR
U54	030 908 020		5 (5.7)				120		REC		30mA	AO8	RR
U60	*2* *** 3*0	D1	6.3						D			AO8	D
U60/500	892 300 000		4				60		REC		20mA	B4	R
U65/550	802 300 000		7.5				60		REC		20mA	B4	R
U70	028 090 310		6				30		REC		30mA	AO8	RR
U71	020 080 310		30				60		REC		50mA	AO8	R
U74	020 080 310		30				120		REC		30mA	AO8	R
U76	020 080 310		30				120		REC		60mA	AO8	R
U77	*20 809 020		5				180		REC		40mA	AO8	RR
U78	802 309 100		6				30		REC		30mA	B7G	RR
U81	009 008 230		6				60		REC		20mA	B8B	RR
U82	209 008 130		6				30		REC		30mA	B8B	RR
U84	009 **8 230		4				30		REC		15mA	B8B	RR
U101	280 008 130		50				120		REC		30mA	B8B	R
U107	281 008 300		40				60		REC		20mA	B7G	R
U118	280 *** 130		40				60		REC		25mA	B8A	R
U119	**1 23* **8		38				120		REC		30mA	B9A	R
U120/500	892 300 000		2				120		REC		30mA	B4	R
U134	028 190 310		13				60		REC		20mA	AO8	RR
U142	280 000 130		31				60		REC		20mA	B8A	R
U143	020 908 030		4				30		REC		15mA	AO8	RR
U145	280 000 130		40				60		REC		60mA	B8A	R
U147	028 090 310		6				30		REC		30mA	AO8	RR
U149	209 008 130		6				30		REC		15mA	B8B	RR
U150	280 009 130		6				30		REC		40mA	B8A	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE	
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
U151	023 000 000	D1	6				0 35			D			B3G	D
U152	001 230 008		19				120			REC		70mA	B9A	R
U153	*** 23* **8	C	17				120			REC		60mA	B9A	R
U154	**1 23* **8		19				120			REC		70mA	B9A	RR
U191	0** 080 230	C1	19				120			REC			AO8	R
U192	**1 23* **6		19				120			REC		30mA	B9A	R
U193	*** 23* **6	C1	19				120			REC		40mA	B9A	R
U201	020 080 310		20				60			REC		60mA	AO8	R
U251	*** 23* **8	C	25				120			REC		30mA	B9A	R
U281	020 080 310		28				120			REC		80mA	AO8	R
U282	001 000 230	D1	28				120			REC		36mA	AO8	R
U291	028 08* 310		29				180			REC		40mA	AO8	R
U301	0** 080 230	C	30				120			REC		35	AO8	R
U309	**1 23* **8		20				120			REC		70mA	B9A	R
U319	**1 23* **8		20				120			REC		70mA	B9A	R
U329	*** 23* **8	C	25				120			REC		60mA	B9A	R
U339	0** 080 230		19				120			REC		35mA	AO8	R
U381	**1 23* **8		38				120			REC		30mA	B9A	R
U403	201 080 030		40				120			REC		70mA	MO8	R
U404	280 *** 130		40				60			REC		60mA	B8A	R
U415	642 300 000		4	10.5	150		5	1.4		100		1.4	B4	T
U418	642 300 000		4	13	150		10	1.6		100		1.6	B4	T
U650	802 300 000		6				30			REC		15mA	B4	R
U709	8*1 23* 9**		6				60			REC		20mA	B9A	RR
U718	29* **8 130		6.3				60			REC		25mA	B8A	RR
U801	128 899 310		80				120			REC		30mA	AO8	RR
U2140P	391 221 800		13				60			REC		20mA	B7	RR
U4020	802 310 000		40				120			REC		70mA	B5	R
UA65	625 414 537		55	6	90	90	36	7	80	90			B9A	PP
UAA11	023 189 100		22				5			D			8SC	DD
UAA91	182 310 900		19				5			D			B7G	RR
UAA171	120 813 090		25				5			D			B8B	DD
UABC80	+81 239 146		28	1	100		0.8	1.4		100		1.4	B9A	DDDT
UAF21	265 814 130		20	2	250	100	6	2.8	100	100			B8A	DP
UAF41	268 154 130		13	2	200	90	5	2	100	100		1.9	B8A	DP
UAF42	268 154 130		13	2	200	90	5	2	100	100		1.9	B8A	DP
UB41	201 908 130		19				5			D		6mA	B8A	RR
UB91	182 310 900		19							D			B7G	DD
UBC1	206 081 930	G1	13	1.7	200		3	2	150			2	AO8	DDT
UBC41	264 098 130		14	1.6	200		1.5	1.6	150			1.6	B8A	DDT
UBC81	641 238 09*		14	1.5	200		1.5	1.6	100			1.4	B9A	DDT
UBF2	206 581 930	G1	12.5	2	250	100	5	1.8	100	150		1.8	AO8	DDP
UBF11	892 361 450		20	2	200	75	5	1.8	200	75		1.8	F8	DDP
UBF15	892 361 450		27	2	250	100	12	5	200	100		5	F8	DDP
UBF80	541 236 891		17	2	200	125	5	2.2	100	100		2	B9A	DDP
UBF89	541 236 891		19	2	200	100	9	3.8	100	100		3.5	B9A	DDP
UBF171	892 541 360		20	3.2	250	75	6	1.8	100	75			B8B	DDP
UBL1	206 581 930	G1	55	11.5	200	200	55	8.5	100	100		8	AO8	DDP
UBL21	264 598 130		55	13	200	200	55	8	100	100		7	B8B	DDP
UBL3	023 189 560	G1	55	6	100	100	29	7.5	100	90		7	8SC	DDP
UBL71	264 589 130		55	5.2	250	250	44	9.5	100	100		0.7	B8B	DDP

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
UC88	414 234 464		12		150		12.5	14	No Data Available			B9A	T
UC92	602 304 100		9.5	1	200		11.5	6.4	200		6.4	B7G	T
UC95	142 360 100		10.8	1.2	200		10	10.5	No Data Available			B7G	T
UC96	412 314 600		9.3	1	200		11.5	6.7	100		6	B7G	T
UCC84	147 234 116		21	1.5	90		12	6	100		6	B9A	TT
UCC85	641 237 410		26	2.1	200		10	5.8	100		5	B9A	TT
UCC88	641 237 410		21	1.2	90		15	12.5	No Data Available			B9A	TT
UCC89	146 234 117		21.6	1.2	90		15	12	80			B9A	TT
UCC189	641 237 410		21	1.2	90		15	12.5	No Data Available			B9A	TT
UCF12	642 371 450		20	{ 1	100			3	100	60	3	F8	TP
				{ 2	200	100	5	2	200	100	2		
UCF80	645 237 114		27	{ 2	100		14	5	100	60	5	B9A	TP
				{ 2	200	175	10	6.2	100	150	6		
UCH4	217 544 630	G1	20	{ 2	100		6	3	80	60	3.2	AO8	TH
				{ 2	200	100	5.2	2.2	100	100	2.2		
UCH5	123 644 570	G1	20	{ 2	100		6.3	2.7	100	60	2.2	8SC	TH
				{ 2	250	100	6.5	2.6	100	152	.6		
UCH11	642 371 450		20	{ 2	100		5	2.4	100	60	1.8	F8	TH
				{ 2	250	100	4.7	2.5	200	100	2.5		
UCH21	276 454 131		20	{ 7	100		6.4	2.2	100	60	3.2	B8B	TH
				{ 2	200	90	5.2	2.2	100	90	2.2		
UCH41	276 454 130		14	{ 2	100		6.4	2.2	100	60	2.8	B8A	TH
				{ 2	200	90	2.7	1.7	100	75	1.5		
UCH42	276 454 130		14	{ 2	100		5	2	100	60	2	B8A	TH
				{ 2	200	75	8	2.2	100	75	2		
UCH43	276 454 130		14	{ 2	100		5	2	100	60	2	B8A	TH
				{ 2	200	75	8	2.2	100	75	2		
UCH71	276 454 131		20	{ 2	100		16.4	2.2	100	60	3.2	B8B	TH
				{ 2	200	90	5.2	2.2	100	90	2.2		
UCH80	541 23* 764		14.5	{ 2	75		5.1		75	60		B9A	TP
				{ 3	250	85	3		100	80			
UCH81	541 237 164		19	{ 2.6	100		5	2.3	100	60	3.7	B9A	TH
				{ 2	200	125	7.6	2.4	100	100	2.4		
UCH717	642 544 370		20	{ 3	200		3		100	60		B8B	TH
				{ 2.5	200	100	2	0.7	100	100			
UCL11	452 371 460		60	{ 2	200		2	2.1	150	60	2	F8	TP
				{ 8.5	200	200	45	9	100	100	7		
UCL81	451 237 614		39	{ 1.9	150		1.3	1.6	100	60	1.2	B9A	TP
				{ 7	200	200	30	8.7	100	100			
UCL82	414 237 516		50	{ 1	200		3.7	2.5	100	60	2.5	B9A	TP
				{ 16	200	200	35	6.4	100	100	6.8		
UCL83	641 137 154		40	{ 1.5	200		2.4	2.5	150	60	2	B9A	TP
				{ 9.5	200	175	30	5.5	100	100	5		
UCL84	461 237 145		45	{ 1.7	200		3	4	100	60	4	B9A	TP
				{ 2.1	200	175	18		100	100			
UCL86	415 237 146		44	{ 1.7	250		1.2	1.6	100	60	1.6	B9A	TP
				{ 7	250	250	36	10	100	100			
UD2	642 300 000		2	12	150		14	2.5	100		2.5	B4	T
UDDL11	023 189 560	G1	44	10	200	200	60	9	100	100		8SC	DDP
UDH	803 310 000		20				60		REC		20mA	B5	R
UDP12	023 180 560	G1	40	10	200	200	60	9	No Data Available			8SC	DP
UDP13	026 580 310	G1	40	10	200	200	60	9	No Data Available			AO8	DP
UDT1	023 189 060	G1	15	3	200		10.3	3	150		3	8SC	DDT
UE1	023 100 080		25				60		REC		20mA	8SC	R

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
UE2	123 180 090		50				60			REC		2JmA	8SC	RR
UE13	020 080 310		25				60			REC		20mA	AO8	R
UE100	208 0*0 130		50							REC			AO8	R
UEL11	452 371 560	G	48	6	100	30	2.4	1.6	100	60	1.6	F8	F8	PP
					200	200	22	5	100	100				
UF5	023 110 560	G1	12.5	2.5	100	100	3.2	2.2	100	100	2.2	8SC	P	
UF6	023 110 560	G1	12.5	20	100	100	3	1.8	100	100	1.8	8SC	P	
UF8	206 511 130	G1	12	2	200	200	6	1.6	100	100		B8B	P	
UF9	206 501 130	G1	12.5	2.5	200	100	6	2.2	100	100	2.2	AO8	P	
UF10	023 110 560	G1	12.5	2.4	200	100	5.5	2.4	100	100	2.3	8SC	P	
UF11	602 301 450		15	2	200	75	6	2.2	100	100	2	F8	P	
UF14	612 350 140		25	5	200	200	12	7	100	100	7	F8	P	
UF15	612 301 450		25	2	200	100	12	5.5	100	100	5.5	F8	P	
UF21	265 104 130		12.5	2.5	200	100	6	2.2	100	100	2.2	B8B	P	
UF41	26* *54 130		12.5	3	200	125	7.2	2.3	100	150	2.3	B8A	P	
UF42	260 154 130		21	2	200	175	10	8.5	100	150	8	B8A	P	
UF43	260 154 130		21	2	200	125	15	6.3	100	100		B8A	P	
UF80	141 230 651		19	2	200	170	10	7.4	100	100	7	B9A	P	
UF81	541 236 000		12.6	2.5	250	125	6	2.2	100	100		B9A	P	
UF85	141 231 651		19	2	200	100	9.7	5.9	200	200	6	B9A	P	
UF86	501 236 014		12.6	2	200	150	3	1.8	100	100	1.8	B9A	P	
UF89	041 230 651		12.6	2	200	100	9	3.8	175	100	4.4	B9A	P	
UF172	112 540 360		20	2	200	100	4.5	3	100	100		B8B	P	
UF174	112 540 360		30	3	200	150	12	8	100	100		B8B	P	
UF175	112 540 360		30	2	200	75	10	5.7	100	75		B8B	P	
UF183	141 230 651		18.9	2	200	90	12	12.5	No Data Available			B9A	P	
UF184	141 230 651		18.9	2.5	200	200	10	15	No Data Available			B9A	P	
UH3	023 110 560		13	3	250	100	8	2.2	100	100		8SC	P	
UH4	893 200 000		4				5		D			B5	RR	
UHP51	023 110 560		13	2.5	250	100	3.5	2	100	100		8SC	P	
UHP52	023 110 560		13	2.5	250	100	3.5	2	100	100		8SC	P	
UL1	206 540 130		60	11.5	200	200	55	8.5	100	150	8	AO8	P	
UL2	023 104 560		35	5	200	200	20	7	100	150	6	8SC	P	
UL11	602 301 450		45	14	200	200	45	9	100	100		F8	P	
UL12	602 301 450		60	8	200	125	75	12	No Data Available			F8	P	
UL21	265 004 130		45	13	200	200	55	8	100	150	7	B8B	P	
UL22	265 004 130		46	10	200	175	61	9	100	100	8	B8B	P	
UL41	26* *54 130		45	9	200	175	54	9.5	100	100	7	B8A	P	
UL43	260 154 130		50	2.6	250	250	36	10	100	100		B8A	P	
UL44	200 154 130	A1	45	13.5	200	175	28.5	7	100	100	6.5	B8A	P	
UL46	261 054 130		45	9	200	175	54	9.5	100	100	7	B8A	P	
UL71	264 500 130		45	5.2	200	200	22	6.5	100	100		B8B	P	
UL84	*41 23* 6*5		45	12.5	200	175	70	10	100	100	9	B9A	P	
UL171	102 541 360		55	8.5	200	200	45	9	100	100		B8D	P	
ULL80	546 234 175		25		250	250	24		100	100		B9A	PP	
ULP	642 310 000		13	20	250		27	4	100		4	B5	T	
ULP51	623 145 000		40	17	250	250	36	2.5	100	100		8SC	P	
ULP61	023 100 560	G1	33	8	200	200	55	9	100	100		8SC	P	
UN955	213 460 000		6.3	7	250		6.3	2.2	100		2	5AA	T	
UP2	023 140 560		25	19	200	100	40	3	100	75	3	8SC	P	
UP6	023 100 560	G1	35	8	200	200	55	9	100	100		8SC	P	
UP13	026 540 310		35	8	200	200	55	9	100	100		AO8	P	

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
UP13	040 231 500	A1	13	1	200	100		3	200	100	3	B7	P
UP35U	023 100 560	G1	35	8	200	200		55	9	100	100	8SC	P
UPX	642 310 000		25	34	250			38	7	100	7	B5	T
UQ80	541 236 114		12	1	250	20		0.9	7	No Data Available		B9A	P
UR1	023 100 080		20					60		REC	60mA	8SC	R
UR1C	802 310 000		20					60		REC	60mA	B5	R
UR2	123 180 090		30					60		REC	70mA	8SC	RR
UR3	123 180 090		30					60		REC	65mA	8SC	RR
UR3C	091 231 800		30					60		REC	65mA	B7	RR
UT2	023 100 060	G1	15	5	100			6	3	100	3	8SC	T
UTH4	423 164 570	G1	17	2.5	100			4	2	100	60	8SC	TH
					200	90		3	0.8	100	90		
UTH12	423 164 570	G1	17	2.5	100			4	2	100	60	8SC	TH
					250	30		3	0.7	No Data Available			
UU2	892 230 000		4					30		REC	15mA	B4	RR
UU3	892 300 000		4					30		REC	30mA	B4	RR
UU4	892 300 000		4					60		REC	35mA	B4	RR
UU5	892 300 000		4(5)					60		REC	20mA	B4	RR
UU6	208 090 030		4					60		REC	40mA	MO8	RR
UU7	209 090 030		4					60		REC	20mA	MO8	RR
UU8	208 090 030		4					120		REC	50mA	MO8	RR
UU9	290 008 130		6					30		REC	15mA	B8A	RR
UU10	892 300 000		4					60		REC	20mA	B4	RR
UU12	8*1 23* 9**		6					60		REC	25mA	B9A	RR
UU30/250	892 300 000		4					15		REC	10mA	B4	RR
UU60/250	892 300 000		4					30		REC	15mA	B4	RR
UU120/250	892 300 000		4					60		REC	20mA	B4	RR
UU120/350	892 300 000		4					60		REC	20mA	B4	RR
UU120/500	892 300 000		4					60		REC	20mA	B4	RR
UVG51	123 190 080		30					60		REC	20mA	8SC	RR
UY1	388 028 120		50					120		REC	30mA	AO8	R
UY1(N)	388 028 120		50					120		REC	30mA	AO8	R
UYINS	3*8 02* 120		50					120		REC	30mA	AO8	R
UY2	023 180 000		26					30		REC	15mA	F8	R
UY3	023 100 080		50					120		REC	30mA	8SC	R
UY4	023 100 080		35					30		REC	15mA	8SC	R
UY11	802 300 100		50					120		REC	50mA	F8	R
UY21	280 80* 130		50					120		REC	70mA	B8B	R
UY22	280 80 130		26					60		REC	20mA	B3B	R
UY31	020 080 310		50					120		REC	30mA	AO8	R
UY41	280 000 130		31					60		REC	60mA	B8A	R
UY42	280 *0* 130		31					60		REC	50mA	B8A	R
UY82	**1 23* **8		55					180		REC	35mA	B9A	R
UY85	**1 23* **8		38					120		REC	60mA	B9A	R
UY89	1*1 23* **8		31					60		REC	20mA	B9A	R
UY91	812 380 800		26					60		REC	20mA	B7G	R
UY92	**2 38* 100		26					60		REC	20mA	B7G	R
V2M70	802 309 100		6.3					30		REC	15mA	B7G	RF
V20	802 310 000		20					60		REC	20mA	B5	R
V20/7000	002 300 000	D1	4					15		REC	10mA	B4	R
V20S	023 100 080		20					60		REC	20mA	8SC	R
V22/7000	000 010 100	D1	6.3					5		D		B8B	D

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE	
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
V25	081 231 900		25				60			REC		20mA	B7	RR
V30	802 310 000		30				120			REC		50mA	B5	R
V30/1	002 300 000	D1	2							D			B4	D
V41	*8* **9 230		4				30			REC		15mA	B8B	RR
V51	280 009 130		5				30			REC		15mA	B8A	RR
V61	28* **9 130		6.3				30			REC		15mA	B8A	RR
V99	263 400 000		3	4.5	90		2.5	0.4		80		0.4	UX4	T
V226	041 230 500	A1	6	5	400	250	14	3		100	150	3	B7	P
V245	041 240 500	A1	3		250	250	16	5		100	150	5	B7	P
V248A	200 540 030	A1	2	10	150	150	32	5.2		100	100	5	MO8	P
V311	28* **9 130		31				60			REC		20mA	B8A	R
V312	602 310 000	G1	4	4.8	250		6	2.3		100		2.3	B5	T
V339	000 231 600	G1	4		250			1.7		100		1.7	B7	T
V453	216 510 030	G1	4	1.8	250	100	4.5	2		100	100	2	MO8	P
V503	642 300 000		4	85	400		100	4.5		100		4.5	B4	T
V872	216 510 030	G1	6	4	200	200	6.7	3.4		100	150	3.3	MO8	P
V884	412 361 500		6.3	2.5	250	200	8	2.5		100	150	2.5	B7G	P
V914	892 310 000		4							D			B5	DD
V960	002 300 000	D1	4				60			REC		20mA	B4	R
V1120	045 231 000	A1	6	9.8	200	200	40	8.7		100	100	7	B7	P
V1120B	040 231 500	A1	4(5)	9.8	200	200	40	8.7		100	100	7	B7	P
V1906	002 300 000	D1	4(5)				60			REC		20mA	B4	R
V1907	002 300 000	D1	4				60			REC		20mA	B4	R
V1928	112 311 100	D1	4				5			D			B7G	R
V2018	002 300 000	D1	20				30			REC		15mA	B4	R
V2118	802 310 000		20				60			REC		20mA	B5	R
V4200	802 300 000		4				120			REC		30mA	B4	R
VBF11	892 361 450		35	2	200	75	5	1.9		100	80	1.9	F8	DD P
VC1	023 189 060	G1	55	2	200		6	3		100		3	8SC	DDT
VCH11	642 371 450		40	2.5	100		4	2		100	60	2	F8	TH
VCL11	452 371 460		90	0.5	100		2	2.4		100	60	2.4	F8	TH
VDS	542 310 000	A1	16	2	200	75		1.6		100	75	1.6	B5	P
VDSB	542 310 000	A1	16	1	200	75	5	3		100	75	3	B5	P
VEG51	023 100 080		20				60			REC		20mA	8SC	R
VEL11	452 371 560		90	6	100	30	2.4	1.6		100	100		F8	PP
VP3	023 110 560	G1	55	2.5	250	100	5	2		100	100		8SC	P
VF7	023 110 560	G1	55	2.5	250	100	3.5	2		100	150	6	8SC	P
VF14	612 340 140		60	4.5	250	250	12	7		100	100		F8	P
VG406	892 300 000		4				30			REC		15mA	B4	RR
VG410	892 300 000		4				30			REC		15mA	B4	RR
VG411	892 300 000		4				60			REC		20mA	B4	RR
VG420	892 300 000		4				60			REC		20mA	B4	RR
VG421	892 300 000		4				60			REC		20mA	B4	RR
VG2503	892 300 000		4				30			REC		15mA	B4	RR
VG2908	892 300 000		2.5				30			REC		15mA	B4	RR
VG3008	892 300 000		4				30			REC		15mA	B4	RR
VG3016	892 300 000		4				60			REC		20mA	B4	RR
VG3630	892 300 000		4				120			REC		20mA	B4	RR
VG5006	892 300 000		4				60			REC		20mA	B4	RR
VG5007	023 080 090		4				60			REC		20mA	8SC	RR

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				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V			
VG5107	802 300 090		4				60			REC		20mA	F8	RR
VH2	812 380 100		6				5			D			B7G	D
VH3	142 364 100		6	4.5	150		13	5		100		5	B7G	T
VH5	412 365 100		6	2	200	125	7.7	5.1	100	100			B7G	P
VHP13	041 231 500	A1	13	1.5	200	100	4	2	100	100	4		B7	P
VHT2	645 230 600	G1	2		150	75			100	75			B4	H
VHT2A	645 230 600	G1	2		150	50			100	60			B7	H
VHT4	545 231 600	G1	4	3	200	100	3.6		100	100			B7	H
VHTA	123 164 550	G1	13	1.5	250	100	3.2		100	100			8SC	H
VHTA	545 231 600	G1	13	1.5	200	100	3.2		100	100			B7	H
VHTS	645 231 500	G1	13	3	200	100	2.6		100	100			B7	H
VL1	023 100 560	G1	55	14	200	200	25	2.2	100	100			8SC	P
VL4	023 100 560	G1	110	8.5	200	200	45	8	100	100			8SC	P
VLS61	002 300 000	D1	2				3		D				B4	R
VM1	2** 00* 300	D1	1.4						D				B7G	D
VM4V	542 310 000	A1	4	1	200	80	14	2.4	200	75	2.4		B5	P
VMP4	041 231 500	A1	4	2	250	100	3	3.5	150	100	3.6		B7	P
VMP4	542 310 000	A1	4	1	250	100	5	3.5	200	100	3.5		B5	P
VMP4G	041 231 500	A1	4	2	250	100	8	2.7	100	100	2.7		B7	P
VMS4	542 310 000	A1	4	1	200	80	11	2.1	200	75	2.4		B5	P
VMS4B	542 310 000	A1	4	1	200	80	5.2	2.4	200	75	2.9		B5	P
VO2	645 320 600	G1	2		150	90	1.8		150	90			B7	O
VO2S	023 064 560	G1	2		150	50	2		No Data Available			8SC	O	
VO4	645 231 500	G1	4	1.5	250	75	1.6		100	75			B7	O
VO4S	023 154 560	G1	4	1.5	250	75	1.6		100	75			8SC	O
VO6	123 164 560	G1	6	3	100	100	4.6		100	100			8SC	O
VO13	645 231 500	G1	13	1.5	250	75	1.6		100	75			B7	O
VO13S	123 154 560	G1	13	1.5	250	75	1.6		100	75			8SC	O
VO133	023 164 570	G1	13	1	100		1	1.2	100	60	1.2	}	B7	TH
					200	75	1	1.7	200	80	1.7			
VP2	041 230 500	A1	2	1	150	150	3	1.5	150	150	1.5		B7	P
VP2B	061 230 500	G1	2	1.5	150	150	1.6	0.7	80	90	0.5		B7	P
VP2B	065 231 500	G1	2	1.5	150	60	2	1.4	100	60	1.4		B7	H
VP2B	032 004 560		2	15	150	150	2.5	0.7	150	150	0.6		8SC	P
VP2BS	032 010 560	G1	2	1	150	150	2.5	0.7	150	150	0.6		8SC	P
VP2D	061 230 500	G1	2	1.5	150	75	1.3	2	150	75	2		B7	P
VP4	542 310 000	A1	4	2	200	100	4.5	2.3	100	100	2.4		B5	P
VP4	041 231 500	A1	4	2	200	100	4.5	2.3	100	100	2.3		B7	P
VP4A	041 231 500	A1	4	2	200	100	4.3	2.5	100	100	2.5		B7	P
VP4B	061 231 500	G1	4	3	250	250	11.5	2	100	100	1.8		B7	P
VP4C	041 231 500	A1	4	2	250	250	11.5	4	100	150	4		B7	P
VP4S	023 110 560	G1	4	2	250	100	8	1.8	100	90	1.8		8SC	P
VP4S	061 231 500	G1	4	3	250	100	8	1.8	100	90	1.8		B7	P
VP6	412 361 500		6	2.5	250	200	8	2.1	100	150	2.1		B7G	P
VP6	061 231 500	G1	6	3	250	100	7.5	1.7	200	100	1.7		B7	P
VP6S	023 110 560	G1	6	3	250	100	7.5	1.8	200	100	.7		8SC	P
VP12D	026 985 310	G1	13	3	250	125	9	1.1	100	100	1.1		AO8	DDP
VP13	041 231 500	A1	13	1.5	200	100	6.3	3	100	100	3		B7	P
VP13	061 231 500	G1	13	3	200	100	8	2.8	100	100	2.8		B7	P
VP13A	023 110 560	G1	13	2	200	100	4	2.2	100	100	2.2		8SC	P
VP13B	061 231 500	G1	13	2	200	200	9	2.2	200	200	2.2		B7	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
VP13C	061 231 500	G1	13	2	200	200	9	2.2	200	200	2.2	B7	P
VP13K	061 231 500	G1	13	3	200	100	8	2	100	100	2	B7	P
VP13S	061 231 500	G1	13	3	200	100	8	2.8	100	100	2.8	B7	P
VP13S	023 110 560	G1	13	3	200	100	8	2.8	100	100	2.8	8SC	P
VP20	542 310 000	A1	20	2	200	100	4	2.2	200	100	2.2	B5	P
VP21	041 230 500	A1	2	1	150	60	1.8	1.1	150	60	1.1	B7	P
VP22	206 510 030	G1	2	1.5	150	60	1.2	0.8	100	60	0.8	MO8	P
VP23	206 510 030	G1	2	1.5	150	60	1.4	1	100	60	1	MO8	P
VP41	216 510 030	G1	4	2.7	250	250	7.7	2	100	150	2	MO8	P
VP41	061 231 500	G1	4	3.3	250	250	11	2	100	200	3.1	B7	P
VP133	216 510 000	G1	13	2.7	150	150	8	2.1	150	100	2.1	MO8	P
VP210	041 230 500	A1	2	1.5	150	60	1.1	0.8	100	60	0.8	B7	P
VP210	542 300 000	A1	2	1.5	150	60	1.1	0.8	125	60	0.8	B4	P
VP215	542 300 000	A1	2	1.5	150	75	2	0.7	150	75	1.3	B4	P
VP215	041 230 500	A1	2	1.5	150	75	2	0.7	150	75	1.3	B7	P
VP215B	061 230 500	G1	2	1.5	150	125	1.5	1	125	100	1.2	B7	P
VP215C	041 230 500	A1	2	1.5	150	125	1.5	1	125	100	1.2	B7	P
VP1320	041 231 500	A1	13	2.7	250	100	5	2	100	100	2	B7	P
VP1321	041 231 500	A1	13	2.8	200	200	7.4	2	150	150	2	B7	P
VP1322	061 231 500	G1	13	2.8	250	200	7.4	2	100	100	2	B7	P
VPT2	542 300 000	A1	2	1.5	150	60	1.5	1.1	125	60	1.1	B4	P
VPT2	041 230 500	A1	2	1.5	150	60	1.5	1.1	125	60	1.1	B7	P
VPT4	542 310 000	A1	4	3	250	100	5.5	2	100	90	2	B5	P
VPT4	041 231 500	A1	4	3	250	100	5.5	2	100	90	2	B7	P
VPT4B	041 231 500	A1	4	3	250	100	6	3.2	100	90	3.2	B7	P
VPTA	041 231 500	A1	13	2	250	100	4.2	2.9	100	100	2.9	B7	P
VPTS	041 231 500	A1	13	3	200	100	5.5	2.6	100	90	2.6	B7	P
VPU1	060 231 500	G1	13	1	250	200		3.5	100	100		B7	P
VS2	542 300 000	A1	2	2.5	150	60	2	1.2	100	60	1.4	B4	P
VS24	542 300 000	A1	2	1	150	75	2.8	1.5	150	75	1.5	B4	P
VS24K	542 300 000	A1	2	1	150	75	2.8	1.5	150	75	1.5	B4	P
VS210	542 300 000	A1	2	2.5	150	60	2	1.4	100	60	1.4	B4	P
VS215	542 300 000	A1	2	1	150	75	6	0.7	150	75	1	B4	P
VSGA1	542 310 000	A1	4	1.5	200	100	7	6.1	100	100	6	B5	P
VT1	642 310 000		4	5	200		5	2	100		2	B5	T
VT2	642 310 000		4	2	200		3	1.9	150		1.9	B5	T
VT121	264 310 000		6.3	7	250		6.3	2.2	100		1.0	5AA	T
VTP4	542 310 000	A1	4	3	200	100	5.5	2	100	100	2	B5	P
VX2	061 235 500	G1	2	1	150	60	1	0.5	150	60		B7	H
VX2S	023 015 560	G1	2	1	150	60	1	0.5	150	60		8SC	H
VX4	515 231 600	G1	4	2	250	75	1.8	0.5	100	75		B7	H
VX4S	023 115 560	G1	4	2	250	75	1.8	0.5	100	75		8SC	H
VX6S	023 115 560	G1	6	3	250	100	1.9	4	100	100	4	8SC	P
VX13	515 231 600	G1	13	2	250	75	1.8		100	75		B7	P
VX13S	023 115 560	G1	13	2	250	75	1.8		100	75		8SC	H
VY1	023 100 080		55				60		REC		20mA	8SC	R
VY2	023 180 000		30				15		D			8SC	R
VY2N	023 100 080		30				15		D			8SC	R
W4	642 300 000		4	7.5	150		3	1.2	100		1.2	B4	T
W4-500	892 300 000		4				60		REC		20mA	B4	RR
W17	265 024 300		1.4	1	90	75	3.5	0.9	80	75	0.9	B7G	P
W21	041 230 500	A1	2	1	150	125	3.3	1	150	100	1.4	B7	P
W21	542 300 000	A1	2	1	150	125	2.3	1	150	100	1.4	B4	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
W25	265 *24 300		1.4		90	60	1.7	0.8	90	60		B7G	P
W30	041 231 500	A1	13	1	250	250	12	4	250	250	4	B7	P
W31	041 231 500	A1	13	3	250	100	8	2.7	100	90	2.7	B7	P
W42	061 231 500	G1	4	3	250	100	7.6	1.5	100	100	1.5	B7	P
W61	026 510 310	G1	6	3	250	75	8.5	2.9	100	75	2.9	AO8	P
W63	026 510 310	G1	6	3	250	100	7.6	1.5	100	90	1.5	AO8	P
W76	026 510 310	G1	13	3	250	100	7.6	1.5	200	100	1.5	AO8	P
W77	412 361 500		6	2	200	200	8	2.5	100	150	2.5	B7G	P
W81	265 104 130		6	3	250	100	8	2.8	100	90	2.8	B3B	P
W101	265 104 130		19	3	250	100	8	2.8	100	90	2.8	B8B	P
W107	412 361 500		12.5	2.5	200	200	8	2.5	100	150	2.5	B7G	P
W118	260 154 130		13	2.5	200	100	7	2.3	100	100	2.5	B8A	P
W119	141 230 651		13	1.3	200	100	13	4.4	100	100	4.4	B9A	P
W142	261 154 130		12	3	250	250	7.2	2.2	100	150	2.2	B8A	P
W143	265 104 130		6	2.5	250	100	6	2.2	100	100	2.2	B8B	P
W145	260 154 130		13	2.5	200	100	7	2.3	100	100	2.3	5BA	P
W147	026 510 310	G1	6	2.5	250	100	6	2.2	100	100	2	AO8	P
W148	265 140 130		6	2.5	250	150	9.5	2.8	100	150	3.8	B8B	P
W149	265 104 130		6	3	250	100	8.5	1.8	100	90	1.7	B8B	P
W150	261 154 130		6	2.5	250	100	6	2.2	100	150	2.2	B8A	P
W213	642 300 000		2	2.5	150		1	1.2	150		1.2	B4	T
W216	040 120 560		2	1.5	150	90	3	1.2	100	90	1.2	B7	P
W318	809 231 600	G1	4	2	100		3.5	2.5	100		2.5	B7	DDT
W406	642 300 000		4	7.5	150		3	1.2	100		1.2	B4	T
W411	642 300 000		4	2.5	150		3	2.2	100		2.2	B4	T
W412	642 300 000		4	7.5	150		3	1.2	100		1.2	B4	T
W415N	642 310 000		4	2.5	200		2.5	1	100		1	B5	T
W420	642 300 000		4	4	150		4	1.3	100		1.2	B4	T
W719	141 230 651		6	2	250	100	10	6	150	100	5	B9A	P
W727	412 365 100		6	1	250	100	11	4.4	100	100	4.4	B7G	P
W729	141 230 651		6	2	200	175	8	5.7	100	100		B9A	P
W739	141 230 651		6.3	1.3	175	100	12	4.4	100	100	4	B9A	P
W4080	642 310 000		4	2.5	200		2.5	1	100		1	B5	T
W4110	642 310 000		4	1.5	200		1	3	100		2.5	B5	T
WD2	642 300 000		2	2.5	150		1	1	100		1.2	B4	T
WD30	560 231 890	G1	13	1	250	100	7	2.6	250	100	2.6	B9	DDP
WD40	560 231 890	G1	4	1	250	100	7	3.5	100	100	3.5	B9	DDP
WD70	541 236 891		6	2	250	90	5	2.2	100	90	2.2	B9A	DDP
W119	541 236 891		19	1.5	200	100	11	4.5	100	100	4.5	B9A	DDP
WD142	268 154 130		13	2	200	90	5	2.1	100	100	1.9	B8A	DP
WD150	268 154 130		6	2	250	100	5	2.1	100	100	2	B8A	DP
WD709	541 236 891		6	2	250	90	5	2.2	100	90	2.2	B9A	DDP
WE23	542 310 000	A1	4	2	200	100	3	2.5	100	100		B5	P
WE24	542 310 000	A1	4		200	100	3	2.5	100	100		B5	P
WE27	642 310 000		4	3.5	200		6	2.4	100		2.2	B5	T
WE28	642 310 000		4	1.5	200		1	2.5	100		2.2	B5	T
WE29	642 310 000	D1	4	3	200		6	2	100		2	B5	DT
WE30	642 350 000		4	15	250	250	36	2.8	No Data Available			B5	P
WE33	023 110 560	G1	4	3	100	250	8	1.9	100	100		8SC	P
WE35	023 004 560		4	15	250	250	15	2.8	100	100		8SC	P
WE37	023 189 060	G1	4	7	250		4	2	100		2	8SC	DDT

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				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
WE38	023 104 560		4	6	250	250	36	9	100	100		8SC	P
WE39	023 100 060	G1	4	5.5	250		6	2.5	100			8SC	P
WE51	892 300 000		4				30		REC		15mA	B4	RR
WE52	892 300 000		2				60		REC		20mA	B4	RR
WE53	023 080 090		4				60		REC		25mA	8SC	RR
WE54	023 080 090		4				30		REC		12mA	8SC	RR
WE350A	254 130 000	A1	6	4.5	400	250	83	6.5	100	150	6	UX5	P
WE377	029 180 310		117				60		REC		20mA	AO8	RR
WE403A	412 365 100		6	2.3	150	150	7	4.3	100	100	4	B7G	P
WHTS	745 231 600	G1	13	{ 1	150			0.6	150	60	0.6	B7	TH
				1	250	75		1.5	250	75	1.4		
WT210-0006	029 180 310		6						D			AO8	DD
WT210-0007	026 540 310		6	18	350	250	54	5.2	100	150	5.2	AO8	P
WT210-0012	298 300 000		5				60		REC		20mA	UX4	RR
WT210-0013	289 300 000		5				120		REC		30mA	UX4	RR
WT210-0019	298 300 000		5				120		REC		30mA	UX4	RR
WT210-0021	028 090 310		6				30		REC		15mA	AO8	RR
WT210-0025	029 180 310		117				60		REC		20mA	AO8	RR
WT210-0029	026 040 310		6	8	250		8	2	100		2	AO8	T
WT210-0037	126 458 310		117	{ 5.2	100	100	43	5.3	100	90	5.3	AO8	RP
							30		REC		15mA		
WT210-0040	802 309 100		6				60		REC		20mA	B7G	RR
WT210-0042	030 809 020		5				60		REC		20mA	AO8	RR
WT210-0048	020 809 030		5				120		REC		30mA	AO8	RR
WT210-0081	021 415 360		6	2	250	100	3	1.7	100	100	1.6	AO8	P
WT210-0082	026 540 310		6	12.5	250	250	45	4.1	100	150	4.1	AO8	P
WT210-0083	216 498 130		6	2	250		2.3	1.6	200		1.6	B8B	DDT
WT210-0084	027 446 310		6	5	250		3	1.6	100		1.6	AO8	TT
WT210-0085	412 365 400		50	7.5	150	100	49	7.5	100	90	6	B7G	P
WT210-0087	027 546 310	G1	6	{ 1	100		8	2.5	100	60	3	AO8	TH
				3	250	100	4	1.2	100	100	1.6		
WT210-0089	026 540 310		6	9	200	175	15	2.3	100	100	2.3	AO8	P
WT210-0090	265 113 000	G1	6	3	250	100	2	1.2	100	100	1.2	UX6	P
WT210-0094	461 471 230		6	8	250		9	2.6	100		2.6	AO8	TT
WT210-0108	461 471 230		6	31.5	150		100	9	No Data Available			AO8	TT
WT210-0148	029 080 310		6				60		REC		20mA	AO8	RR
WT389	036 540 320		1.4	4.6	90	90	8	2	80	75	2	AO8	P
WT390	026 040 310		6	{ 8	250		8	2	100		2	AO8	T
					150		5.5		100	60			
WT-T102	020 809 030		5				60		REC		20mA	AO8	RR
WT-T122	021 415 360		6	3	250	100	3	1.6	100	100	1.6	AO8	P
WT-T123	026 540 310		6	12.5	250	250	45	4.1	100	150	4	AO8	P
WT-T124	216 498 130		6	2	250		2.3	1.6	200		1.6	B8B	DDT
WT-T125	027 446 310		6	5	250		3	1.6	100		1.6	AO8	TT
WT-T126	412 365 400		50	7.5	150	100	49	7.5	100	90	6	B7G	P
WT-T128	027 546 310	G1	6	{ 1	100		8	2.5	100	60	3	AO8	TH
				3	250	100	4	1.2	100	100	1.6		
WT-T130	026 540 310		6	9	200	175	15	2.3	100	100	2.3	AO8	P
WT-T131	265 113 000	G1	6	3	250	100	2	1.2	100	100	1.2	UX6	P
WT-T135	020 809 030		5				120		REC		30mA	AO8	RR
X14	026 546 300	G1	1.4		90	50	1.8	0.5	80	60	0.5	AO8	H
X17	266 424 300		1.4	4	75		4.5	1.2	80		1.2	B7G	H
X18	266 464 300		1.4	4	75		4	1.2	80		1.4	B7G	H

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE	
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
X21	645 230 600	G1	2		150	75				100	75		B7	H
X22	645 320 600	G1	2		150	75				100	75		B7	H
X23	645 231 700	G1	2	} 1.5	100		2.1			100	60	1.1	} B7	TH
					150	60	0.7			150	60	1.5		
					100		2.1			100	60	1.3		
X24	645 231 700	G1	2	} 1.5	150	60	0.7			150	60	1.6	} B7	TH
					75	50	1	0.4		80	60	0.4		
X25	265 461 300		1.4										B7G	H
X30	645 231 600	G1	13	3	150	75	7			100	75		B7	H
X31	645 231 700	G1	13	} 6	150		2.2			100	60	2	} B7	TH
					250	75	2.3			250	75	3		
X41	645 231 700	G1	4	} 3	150		5	1.4		150	60	1.8	} B7	TH
					250	75	2.3	1.4		100	75	2		
X42	642 231 600	G1	4	3	250	100	7	2		100	100	2	B7	H
X61	027 546 310	G1	6	} 2	100		5.4	2.2		100		2.2	} AO8	TH
					250	100	3	0.7		150	100	0.7		
X61M	027 546 310		6	} 2	100		7.5	2.6		100	60	2	} AO8	TH
					250	100	8	2.6		100	100	2		
X63	026 545 310	G1	6	3	250	100	6	1.6		100	100	1.6	AO8	H
X64	026 540 310	G1	6	3	250	100	5.3	1.1		100	100	1.1	AO8	H
X65	027 546 310	G1	6	} 1	100		8	2.5		100	60	1	} AO8	TH
					250	100	4	1.2		100	100	0.5		
X66	027 546 310	G1	6	} 1	100		8	2.5		100	60	1.3	} AO8	TH
					250	100	4	1.2		100	100	1		
X71	027 546 310	G1	15	3	100					100	60	1.5	} AO8	TH
				250	100				150	100	3			
X73	026 546 310	G1	6	3	150	75				100	75		AO8	H
X75	026 546 310	G1	15		150	75				100	75		AO8	H
X76	027 546 310	G1	13	} 1	100		8	2.5		100	60	0.6	} AO8	TH
					250	100	4	1.2		100	100	1.6		
X77	412 366 100		6	2	100		12	6.5		100		6.5	B7G	H
X78	542 376 400		6	} 2	100		5	2.2		100	60	2.8	} B7G	TH
					150	75	5.3	2.2		100	75	2		
X79	541 237 46*		6	} 2	100		5	2.2		100	60	2.8	} B9A	TH
					250	75	10	3		100	75	6		
X81	276 454 130		6	} 1	100		4.8	1.4		100	60	1.7	} B8B	TH
					250	100	4	2		100	100	2		
X99	264 300 000		3	4.5	90		2.5	0.4		80		0.4	UX4	T
X101	276 454 130	G1	19	} 2	100		3			100	60		} B8B	TH
					250	100	3			100	100			
X107	412 365 400		19		100	250	4						B7G	O
X108	542 376 400		19	} 2	100		5	2.2		100	60	2.2	} B7G	TH
					250	75	5.3	2.2		100	75	1.6		
X109	541 237 46*		19	} 2	100		5	2.2		100	60	2.8	} B9A	TH
					250	75	2.9			100	75			
X118	276 454 130		28	} 2.5	100		5	4		100	60	3.5	} B8A	TH
					200	100	3	2.5		100	100	2.5		
X119	541 237 164		19	} 1	100		13.5	3.7		100	60	3.5	} B9A	TP
					200	100		2.3		100	100	2		
X142	276 454 130		14	} 2	100		5	2		100	60	2.2	} B8A	TH
					200	75	8	2.2		100	75	2		
X143	276 454 131		6	} 2	100		6.3	2.4		100	60	3.2	} B8B	TH
					250	90	5.3	2.2		100	100	2.2		
X145	276 545 130		28	} 3.3	100		6	2		100	60	3	} B8A	TH
					200	100	8	2.5		100	100	2.5		
X147	027 546 310	G1	6	} 2	100		5.4	2.2		100	60	2.8	} AO8	TH
					250	100	5	2.4		100	100	1.2		

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
X148	276 454 130		6	{ 1 2	100 250	100	4.8 4	1.4 2	100 100	60 100	1.6 2	} B8B	TH
X150	276 454 130		6	{ 2 2	100 250	100	5 8	2.6 2.2	100 100	60 100	2.8 3.5		
X719	541 237 164		6	{ 3 2	100 250	100	5 6.5	2.3 2.3	100 150	60 100	2.3 2.4	} B9A	TH
X727	412 366 100		6	2	100		11	7	100		5		
X6030	020 880 330		3						D			} B8B	D
XAA91	182 310 900		3.1				5		D				
XC88	414 234 464		2		150		12.5	14	No Data Available			B9A	T
XC95	142 360 100		1.8	1.2	200		10	10.5	No Data Available			B7G	T
XCC82	641 227 413		6.3	0	100		11.8	3.1	100		3.1	B9A	TT
XCC89	146 234 117		3.6	1.2	100		15	12	No Data Available			B9A	TT
XCC189	741 236 410		4.5	1.2	90		15	12.5	No Data Available			B9A	TT
XCF80	645 237 114		4.5	{ 2 2	100 200	150	14 10	5 6.2	100 100	60 100	5 6	} B9A	TP
XCF82	645 237 114		4.8	{ 1 2	150 200	100	18 10	8.5 5.2	100 100	60 100	8 5		
XCL82	414 237 516		8	{ 0 2	100 200	150	3.5 41	2.5 7.5	100 100	60 100	2 2	} B9A	TP
XCL84	461 237 145		7.8	{ 1.7 2.9	200 200	200	3 18	4 10.4	100 100	60 100	4		
XCL85	641 237 514		8.6	{ 0.8 2	100 200	150	5 41	6.5 7.5	100 100	60 100	6.5	} B9A	TP
XCL86	415 237 146		7.5	{ 1.7 7	250 250	250	1.2 36	16 10	100 100	60 100			
XD	642 300 000		2	1.5	75		0.7	0.8	80		0.7	SM4	T
XD1.5V	642 300 000		1.5		50		0.4	0.4	80			SM4	T
XD2.0V	642 300 000		2	1	60		0.5	0.6	No Data Available			SM4	T
XE2	623 000 000		1.25	2.9	12		0.1	0.1	No Data Available			B3G	T
XE4	623 000 000		1.25	2	12		0.23	0.12	No Data Available			B3G	T
XF80	141 230 651		3.4	2	200	175	10	7.2	100	100	6	B9A	P
XF85	141 230 651		3.4	2	250	100	10	6	150	100	5	B9A	P
XF86	501 236 014		2.5	2	250	150	3	2.3	100	100	1.8	B9A	P
XF94	412 365 100		3.1	1.0	250	150	10.8	5.2	100	100		B7G	P
XF183	141 230 651		3.6	2	200	90	12	12.5	No Data Available			B9A	P
XF184	141 230 651		3.6	2.5	200	200	10	15	No Data Available			B9A	P
XFG1	624 300 000		1.5		40		1.5		No Data Available			B5A	T
XFR1	652 430 000		1.2		40	40	3	2	No Data Available			B5A	P
XFR2	652 430 000		1.2		60	60	1.8	1.9	No Data Available			B5A	P
XFR3	624 300 000		1.2	5	150		4	1.7	125		1.7	B5	T
XFR5	652 430 000		1.2		60	60	1.8	1.1	No Data Available			B5A	P
XFW10	653 120 000		0.6		20	20			No Data Available			B5A	P
XFW20	652 430 000		0.6		20	20			No Data Available			B5A	P
XFW30	653 420 000		0.6		20	20			No Data Available			B5A	P
XFW40	653 420 000		0.6		20	20			No Data Available			B5A	P
XFW50	653 420 000		0.6		20	20			No Data Available			B5A	P
XFY10	653 420 000		1.3	1.3	20	20	0.5	0.4	No Data Available			B5A	P
XFY11	653 420 000		1.2		20	20	0.3	0.4	No Data Available			B5A	P
XFY12	653 420 000		1.2	0.5	20	20	0.3	0.4	No Data Available			B5A	P
XFY14	653 420 000		1.2	6.5	60	60	3.1	0.6	No Data Available			B5A	P
XFY15	653 420 000		1.2	6.5	60	60	3	0.6	No Data Available			B5A	P

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				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
XFY20	653 420 000		0.6		20	20				No Data Available			B5A	P
XFY21	653 420 000		1.2		20	20	0.4	0.4	No Data Available			B5A	P	
XFY22	653 420 000		1.2	1.2	20	20	0.3	0.4	No Data Available			B5A	P	
XFY23	653 420 000		1.2	2	20	20	0.4	0.3	No Data Available			B5A	P	
XFY31	653 420 000		1.2		20	20	0.4	0.4	No Data Available			B5A	P	
XFY32	653 420 000		1.2	1.5	20	20	0.4	0.3	No Data Available			B5A	P	
XFY33	653 420 000		1.2	2	20	20	0.4	0.3	No Data Available			B5A	P	
XFY34	653 420 000		1.2	4	40	40	1.5	0.6	No Data Available			B5A	P	
XFY35	653 420 000		1.2	1.5	40	40	0.7	0.6	No Data Available			B5A	P	
XFY41	653 420 000		1.2	1.2	40	30	0.3	0.4	No Data Available			B5A	P	
XFY43	653 420 000		1.2	2	20	20	0.4	0.3	No Data Available			B5A	P	
XFY51	653 420 000		1.2		20	20	0.2	0.3	No Data Available			B5A	P	
XFY53	653 420 000		1.2	3	20	20	0.5	0.3	No Data Available			B5A	P	
XFY53M	653 420 000		1.2	3	20	20	0.5	0.3	No Data Available			B5A	P	
XFY54	653 420 000		1.2	2	20	20	0.3	0.3	No Data Available			B5A	P	
XH2.0V	642 300 000		2	1	60		0.5	0.6	No Data Available			SM4	T	
XL	642 300 000		2	1.5	75		1.5	0.9	80		0.8	SM4	T	
XL01.5	642 300 000		1.5	1	60		0.9	0.7	No Data Available			SM4	T	
XL01.5V	*41 23* 6*5		8	7.3	250	250	48	11.3	100	150	10	B9A	P	
XL1.5	642 300 000		1.5	1	60		0.7	0.6	No Data Available			SM4	T	
XL2.0V	642 300 000		2	1	60		1	0.8	No Data Available			SM4	T	
XL36	642 300 000		1.5	4.5	50		1.7	0.7	80			SM4	T	
XL84	6*2 364 100		2	1	50		1.1	0.9	80			B7G	T	
XL86	*2* 540 310	A1	12.8	8.3	100	100	77	11	100	150	10	AO8	P	
XP	642 300 000		2	4.5	100		9.5	1	80			SM4	T	
XP1.5V	642 300 000		1.5	4	60		1.8	0.8	No Data Available			SM4	T	
XP2	642 300 000		2	4.5	75		4	1	80			SM4	T	
XPH1.5	264 730 000	GL	1.5	{ 4.5 0	50 50		1.7 0.5	0.7 0.5	60 60			} SM5	TT	
XR2	206 035 240		1.2	7.5	150	125	7	1.9	125	100		B8D	P	
XR4	206 035 240		1.2	7.5	150	125	7	1.9	100	100		B8D	P	
XR6	412 163 510		6.3	1.4	100	100	7	5	100	100	5	B8D	P	
XR7	412 653 160		6.3	2	100	100	7.5	5.5	100	100	5.5	B8D	P	
XR8	462 603 160		6.3	2.5	100		8	4.2	100			4.2	B8D	T
XR9	742 113 460		6.3	1.8	100		8.5	5	100			5	B8B	TT
XSG	542 300 000	A1	2	1	150	60	1.4	0.7	100	60	0.6	Sm4	P	
XSG1.5V	542 300 000	A1	1.5	0	50	30	0.5	0.3	No Data Available			Sm4	P	
XSG2.0V	542 300 000	A1	2	0	60	30	0.6	0.4	No Data Available			Sm4	P	
XVS2.0V	542 300 000	A1	2	0	60	30	0.4	0.3	No Data Available			Sm4	P	
XW1.5	254 630 000		1.5	0	60	30	0.7	0.5	No Data Available			Sm5	P	
XW1.5	251 630 000	G1	1.5	0	50	50	0.7	0.5	No Data Available			Sm5	P	
XW2.0V	254 630 000		2	0	60	50	0.9	0.6	No Data Available			Sm5	P	
XWO75A	653 420 000		0.6		40	30	0.3	0.2	No Data Available			P5A	P	
XWO75B	653 420 000		0.6		40	30	0.2	0.2	No Data Available			B5A	P	
XXB	206 447 320		1.4		90		4.5	1.3	90			1.3	B8B	TT
XXD	216 447 130		12.5	10	250		9	2.1	100			2.1	B8B	TT
XXFM	264 189 130		6.3	2	250		1.5	1.5	100			1.4	B8B	DDT
XXL	260 004 130		6	8	250		8	2.3	100			2.3	B8B	T
XY	254 630 000		2	3	75	75	4	1.2	80	75	1.2	SM5	P	
XY1.4A	653 420 000		1.4	4.5	40	40	1.8	0.5	No Data Available			B5A	P	
XY1.4B	653 420 000		1.2	4.5	40	40	1.6	0.6	No Data Available			B5A	P	

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
XY1.4C	653 420 000		1.2	1.5	40	40	0.5	0.5	No Data Available			B5A	P
XY1.5	254 630 000		1.5	1.5	40	40	1.7	1	No Data Available			SM5	P
XY2.0V	246 530 000		2	2	60	50	1.7	1.4	No Data Available			SM5	P
XY14B	653 420 000		1.2	4.5	40	40	0.3	0.6	No Data Available			B5A	P
XY14CC	653 420 000		1.2	1.5	40	40	0.5	0.5	No Data Available			B5A	P
XY88	*** 23* **8	C	16				120		REC		40mA	B9A	R
Y13	045 231 600		13	20	250	250	40	3.9	100	150		B7	P
Y220	642 300 000	G2	2	4.5	150	150	10.5	2.5	100	100	2.5	B4	P
Y220	642 350 000		2	4.5	150	150	10.5	2.5	100	100	2.5	B5	P
Y230	642 350 000		2	3	150	150	5		100	100		B5	P
YA1000	230 232 032	A1	4				180		REC		40mA	B9A	R
YC88	414 234 464		2.6		160		12.5	14	No Data Available			B9A	T
YC95	142 360 100		2.2	1.2	200		10	10.5	No Data Available			B7G	T
YCC89	146 234 117		4.8	1.9	100		15	12	No Data Available			B9A	TT
YCL82	414 237 516		10.8	0	100		3.5	2.5	100	60	2	B9A	TP
					200	150	41	7.5	100	100	6		
YCL84	461 237 145		10	1.7	200		3	4	100	60	4	B9A	TP
					200	150	18	11	100	100	4		
YCL86	415 237 146		10	1.7	250		1.2	1.6	100	60	1.6	B9A	TP
					250	250	36	10	100	100	1.6		
YD2	642 300 000		2	4.5	150		6	3	100		2	B4	T
YF183	141 230 651		4.2	2	200	100	12	12.5	No Data Available			B9A	P
YF184	141 230 651		4.2	2.5	200	200	10	15	No Data Available			B9A	P
YL84	*41 23* 6*5		8	7.3	250	250	48	11.3	No Data Available			B9A	P
YL86	041 23* 6*5		8	12.5	200	200	75	10	No Data Available			B9A	P
YL1000	014 235 166		1.1	6.5	100	100	30	4.3	100	100		B9A	P
YL1020	245 1*4 200	A1/A2	1.6		300	250	40	4	No Data Available			B7A	PP
YL1030	245 3*4 200	A1/A2	2.1		200	200	30	4.5	100	100		B7A	PP
YL1060	245 134 200	A1/A2	6.3	15	300	250	95	5	No Data Available			B7A	PP
YL1080	424 236 572		1.6		200	200	30	3.3	100	100		B9A	PP
YL1130	423 756 324		1.1		200	200	40	7	100	100		B9A	PP
YL1150	245 611 300		6.3		400	250	100	35	100	100	70	B7A	P
YL1190	432 756 234		1.5		150	150	45	9.5	100	100		B9D	PP
YL1200	245 611 300		12.6	17	100	250	100					B7A	P
YL1240	414 227 563		6.75		400	200	30	3.3	100	100		B9A	PP
YY88	*** 23* **8	C	22				180		REC		40mA	B9A	R
Z14	036 500 200	G1	1.4	1	100	100	0.5	0.6	80	90	0.7	AO8	P
Z21	041 230 500	A1	2	1	150	150	1.1	1.2	150	100	1.2	B7	P
Z21	542 300 000	A1	2	1	150	150	1.1	1.2	150	100	1.2	B4	P
Z22	041 230 500	A1	2	0	150	150	2.5	1.4	100	100		B7	P
Z22Met	041 230 500	A1	2	0	150	150	2.5	1.4	100	100		B7	P
Z26	045 231 600		26	5.5	250	250	32	7.5	100	100	8	B7	P
Z62	026 510 310	G1	6	2	300	150	10	7.5	100	100	7.5	AO8	P
Z63	026 510 310	G1	6	3	250	100	2	1.2	100	100	1.2	AO8	P
Z66	026 510 310	G1	6	1.5	200	200	10.9	8.5	100	150	8	AO8	P
Z73	026 510 310	G1	6	3	250	100	6.5	1.7	100	90	1.8	AO8	P
Z77	412 361 500		6	1.5	250	250	10	7.5	100	150	5	B7G	P
					200	150	4	6.4	100	150	5		
Z90	256 101 403		6	2	250	250	10	6	100	150	6	B9G	P
Z142	260 154 130		21	2	200	200	10	8.5	100	150	8	B8A	P
Z145	261 514 130		22	1.8	200	200	10	9	100	150	7	B8A	P
Z150	260 154 130		6	2	250	250	10	9.5	100	150	8	B8A	P
Z152	141 230 651		6	2	200	200	10	7.4	100	100	6	B9A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
Z220	642 300 000	G2	2	7.5	150	150	15	2	100	100	2	B4	P
Z220	642 350 000		2	7.5	150	150	15	2	100	100	2	B5	P
Z309	141 223 651		6	2	250	250	20	15	No Data Available			B9A	P
Z319	141 321 655		6	2	350	250	12.5	11.5	No Data Available			B9A	P
Z329	141 230 651		7.3	1.9	200	175	10	8.8	100	100		B9A	P
Z359	141 230 651		12	2	250	250	20	15	100	100		B9A	P
Z719	141 230 651		6	2	200	175	10	7.4	100	150	6	B9A	P
Z729	501 236 014		6	1	250	100	2	1.8	100	100	1.8	B9A	P
Z749	141 230 651		6.3	1.9	200	175	10	9.2	No Data Available			B9A	P
Z759	141 023 651		6	2	250	250	15	15	100	100		B9A	P
ZD	892 310 000		13						D			B5	DD
ZD2	642 300 000		2	12	150		7	1	100		1.2	B4	T
ZD17	208 564 300		1.4	1	90	90	2.7	0.6	80	90	0.6	B7G	DP
ZD25	2*8 564 300		1.4	1.5	60	60	0.2	0.2	No Data Available			B7G	DP
ZD152	541 236 891		6	2	250	90	5	2.2	100	90	2.2	B9A	DDP

# APPENDIX 1.

## TEST DATA FOR TUNING INDICATORS

Tuning indicators are tested with the controls set according to the figures given in the table below; using the screen switch for obtaining the target voltage and inserting the anode load, as shown in column marked "Ra" by means of the link on the panel of the instrument. At the approximate bias given in the table the triode section should be at cut-off and the "eye" fully closed. On reducing the grid bias to zero the "eye" should open fully and the anode current should be approximately that given in the table. In the case of double sensitivity indicators giving multiple images corresponding to the different sensitivities, two sets of data (wherever possible) are given, the first set relating to the sensitive indication.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	Neg. Grid Volts	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160				BASE
					Anode Volts	Target Volts	Ia mA	Ra MΩ	
1M1	4*0 230 060		1.4	34	250	0	0.09	2.2	B8D
1M3	4*0 230 060		1.4	23	200	0	0.1	1	B8D
2E5	264 513 000		2.5	8	250	250	0.2	1	AO8
2G5	264 513 000		2.5	22	250	250	0.2		UX6
6AB5	264 513 000		6	15.5	150	150	0.13	1	UX6
6AD6	026 540 310		6	{ 3	150				} AO8
6AF6	026 540 310		6	{ 50	150	150			
6AF7	026 457 310		6	{ 81	150	125			AO8
6BR5	41* 23* 6*5		6	{ 4.5	200	200	0.16	1	} AO8
			6	{ 15	200	200	0.15	1	
			6	{ 14	200	200	0.4	0.5	B9A
6CD7	026 546 310		6	{ 4.2	250	250		1	} AO8
			6	{ 12.5	250	250	1.0	1	
6E5	264 513 000		6	7.5	250	250	0.2	1	UX6
6FG6	401 235 607		6	22	250	250	0.5	0.5	B9A
6G5	264 513 000		6	22	250	250	0.2	1	UX6
6GE7	026 457 310		6.3	5	250	250			AO8
6H5	264 513 000		6	22	250	250	0.2	1	UX6
6M1	026 540 310		6	22.5	250	250	0.2	1	AO8
6M2	*25 456 310		6	{ 4	250	250	0.12	0.2	} AO8
			6	{ 2	250	250	0.25	0.1	
6M40	410 230 605		6.3	20	250	250	0.5	1	B9A
6N5	264 513 000		6	15.3	150	150	0.2	1	UX6
6S5	026 470 310		6.3	8	250	250	0.23	1	AO8
6T5	264 513 000		6	22	250	250		1	UX6
6U5/6G5	264 513 000		6	22	250	250	0.2	1	UX6
6UG56	026 540 310		6.3	8	250	250		0.1	AO8
6X6	025 540 310		5		250	250			AO8
6ZE1	264 513 000		6.3	7	250			1	UX6
10M1	026 540 310		18	19	200	175	0.2	1	AO8
10M2	2*6 456 130		12.6	{ 3	200	200	0.1	0.2	} AO8
			12.6	{ 20	200	200	0.19	0.1	
12M71	251 064 130		12.6	15	200	200	0.36	0.5	B8B
12U5	264 513 000		12.6	22	250	250	0.2	1	UX6
13M4V	206 540 130		12.6	{ 4.2	200	200		1	} AO8
			12.6	{ 12.5	200	200		1	
41ME	023 104 560		4	5	250	250		1	8SC
63ME	026 540 310		6	22	250	250	0.3	1	AO8

VALVE	SELECTOR SWITCH No.	T.C.	Vf	Neg. Grid Volts	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160				BASE
					Anode Volts	Target Volts	Ia mA	Ra MΩ	
64ME	026 457 310		6	{ 16 2.5	250	250		1	} AO8
65ME	41* 23* 6*5		6		250	250		1	
1629	026 540 310		12.5	8	250	250	0.2	1	AO8
4677	023 104 560		4	4	250	250	0.12	2	8SC
4678	023 104 560		6	5	250	250	0.1	2	8SC
AC/ME	045 231 600		4	22	250	250	0.2	1	B7
AM1	023 104 560		4	5	250	250	0.1	2	8SC
DM21	026 540 030		1.4		90	90	0.03	2	AO8
DM70	4*0 230 060		1.4	23	200	0	0.1	1	B8D
DM71	4*0 23* 060		1.4	23	200	0	0.1	1	B8D
E130	026 540 310		6	15	250	250		1	AO8
E1320	026 540 310		6	11	250	250	1		AO8
EM1	023 104 560		6	5	250	250	0.1	2	8SC
EM2	023 104 560		6.3	4	250	250	0.1	2	8SC
EM3	023 104 560		6	18	200	200	0.2	1	8SC
EM4	023 164 560		6	{ 4.2 12.5	200	200		1	} 8SC
					200	200		1	
EM11	026 546 310		6	{ 5 16	250	250		1	} AO8
EM31	026 540 310		6	5	250	750		2	
				4.2	250	250		1	
EM34	026 456 310		6	12.5	250	250	1	1	AO8
EM35	026 540 310		6	22	250	250		1	AO8
EM71	251 064 130		6	20	250	250	0.5		B8B
EM72	251 064 130		6	20	250	250	0.5		B8B
EM80	41* 23* 6*5		6	14	250	250	0.4	0.5	B9A
EM81	41* 23* 6*5		6	10.5	250	250	0.4	0.5	B9A
EM84	4*1 235 6*6		6	22	250	250	0.5	0.5	B9A
EM87	4*1 235 6*6		6.3	14	250	250	1.1	1	B9A
EM840	4*1 235 6*6		6	22	250	250	0.5	0.5	B9A
FT4	026 540 310		4	6	250	250		1	AO8
HM71	251 064 130		12.6	15	200	200	0.4	5	B8B
HM85	401 235 607		12.6	18	250	200	0.5	.47	B9A
ME4S	023 104 560		4	5	250	250		2	8SC
ME6S	023 104 560		6	5	250	250		2	8SC
ME41	216 040 530		4	22.5	250	250	0.2	1	MO8
ME91	216 040 530		9	17	150	150	0.2	1	MO8
ME920	045 231 600		9	19	200	175	0.2	1	B7
PM6	206 546 130		6	{ 15 5	200	200		1	} AO8
				5	200	200		1	
KM84	4*1 235 6*6		4.2	22	250	250	0.5	0.5	B9A
TK406	023 104 560		4	5	250	250	0.1	2	8SC
TV4	023 140 560		4	5	250	250		1	8SC
TV6	023 104 560		6.3	5	250	250	0.1	2	8SC
UM4	206 546 130		12.6	{ 4.2 12.5	200	200		1	} AO8
				12.5	200	200		1	
UM11	206 546 130		15	{ 4.2 12.5	200	200		1	} AO8
				12.5	200	200		1	
UM34	026 456 310		12.5	{ 4.2 12.5	250	250	1	1	} AO8
				12.5	250	250	1	1	
UM80	41* 23* 6*5		19	14	200	200	0.4	0.5	B9A
UM81	41* 23* 6*5		19	14	200	200	0.4	0.5	B9A
UM84	4*1 235 6*6		12.6	22	250	250	0.4	0.5	B9A
UM85	401 235 607		19	13	200	200	1	0.2	B9A

VALVE	SELECTOR SWITCH No.	T.C.	Vf	Neg. Grid Volts	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160				BASE
					Anode Volts	Target Volts	Ia mA	Ra MΩ	
VFT4	026 540 310		4	20	250	250		1	AO8
VME4	045 231 600		4	22	250	250		1	B7
VTF6	026 540 310		6	22	200	200	0.2	1	AO8
Y25	4*0 320 060		1.4	34	250		0.99	2.2	B8A
Y61	026 540 310		6	22	250	250	0.2	1	AO8
Y62	026 540 310		6	22	250	250		1	AO8
Y63	026 540 310		6	22	250	250	0.2	1	AO8
Y64	026 540 310		6	22	250	250		1	AO8
Y65	026 540 310		6	11	250	250		1	AO8
Y119	41* 25* 6*5		19	14	200	200	0.4	0.5	B9A

# APPENDIX II.

## Test Data for High Voltage Rectifiers

The following procedure should be adopted when testing high voltage rectifiers.

Make insulation checks with valve cold end hot as stated in paragraphs 1 and 2 of the Abbreviated Working Instructions.

Then set Anode and Screen Voltage switches to their minimum value (i.e. 20) and Anode Current Controls to figure shown in Data column. With Circuit Selector set to TEST and Anode Selector at A<sub>1</sub> increase Anode Volts setting until indicating meter reads in a forward direction.

The setting of the Anode Voltage switch for a good valve should not exceed the figure given in column headed Anode Volts.

When checking full wave or voltage doubler rectifiers, check second Anode with Anode Selector at A<sub>2</sub>.

NOTE:—The valve should be heated to working temperature before setting Circuit Selector to position TEST and only left at this position for sufficient time to take a reading.

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Anode Volts (Max.)	Ia mA (Min.)	Valve Holder	Type	REMARKS
1B3	020 000 300	A1	1.25	200	6	AO8	R	
1Z2	232 232 300	A1	1.4			B7G	R	
2V3	020 000 300	A1	2.5(3)			AO8	R	
2V3G	020 000 300	A1	2.5(3)			AO8	R	
2X2	200 300 000	A1	2.5(3)	100	10	UX4	R	
2Y2	200 300 000	A1	2.5	100	10	UX4	R	
3B24	320 200 000	A1	2.5	60	10	UX4	R	
6W2	230 000 000	A1	6	100	9	Nil	R	
225DU	082 323 600		2	40	20	B7	RR	Test A1 & A2
405BU	672 300 000		4	40	20	B4	RR	Test A1 & A2
732A	230 300 000	A1	2.5	60	10	UX4	R	
879	200 300 000	A1	2.5	100	10	UX4	R	
1876	123 000 700		4			8SC	R	
1877	002 300 000	A1	4	100	10	B4	R	
8016	020 000 300	A1	1.25	200	6	AO8	R	
8020	200 300 000	A1	5	100	22	B4	R	
CE23C	320 200 000	A1	2.5	60	10	UX4	R	
EY51	230 000 000	A1	6	100	9	B3G	R	
HVR2	002 300 000	A1	4	100	10	B4	R	
HVR2A	002 300 000	A1	2(2.5)	100	10	B4	R	
R12	230 000 000	A1	6.3	100	9	B3G	R	
SU61	230 000 000	A1	6.3	100	9	B3G	R	
SU2150	002 300 000	A1	2(2.5)	60	4	B4	R	
SU2150A	002 300 000	A1	2	200	50	B4	R	
U17	002 300 000	A1	4	40	35	B4	R	
U19	002 300 000	A1	4(5)	40	70	B4	R	
U21	002 300 000	A1	2	60	4	B4	R	
U22	200 000 030	A1	2(3)	60	4	MO8	R	
U23	002 300 000	A1	4(5)	40	100	B4	R	
U24	020 000 300	A1	2	20	0.5	AO8	R	
U41	020 300 000	A1	1.25	200	6	AO8	R	
U43	230 000 000	A1	6.3	100	9	Nil	R	
U151	230 000 000	A1	6.3	100	9	Nil	R	
V21/7000	002 300 000	A1	4	100	10	B4	R	
V960	002 300 000	A1	4	80	90	B4	R	
V1906	002 300 000	A1	4(5)	60	100	B4	R	
V1907	002 300 000	A1	4	150	70	B4	R	
V1913	002 300 000	A1	4(5)	40	100	B4	R	
V1920	002 300 000	A1	4(5)	100	90	B4	R	
VL51	002 300 000	A1	4	100	10	B4	R	
CV317	322 322 222	A1	4	60	80	B9G	R	
CV121	002 300 000	A1	4(5)	100	90	B4	R	

# APPENDIX III.

## Test Data for 'Service' Type Valves

### NOTES REFERRED TO IN THE REMARKS COLUMN

- A The heater/cathode lead identified with red marking should be connected to Pin No. 1.
- B The grid top cap is situated over Pins No. 7 and 8.
- C This valve does not fit special valve holders supplied, and roller selector Data will depend on connections made to valve electrodes.
- D Pin No. 1 on the flat pinch type of base is the lead adjacent to the coloured blob the remaining pins being directly numbered across the base from Pin No. 1.
- E Alternative test figures are given for use when valve shows signs of back emission from anode to G<sub>3</sub>. This phenomenon can be recognised by the anode current apparently decreasing as the valve heats.
- G Valves on the B8D base when leads are cut, should be tested either by insertion in a B8D Adaptor, or leads lengthened and tested in the same way as those with flexible leads, by using the special 9 clip valve holder.
- H Tests on tuning indicators should not be made until the resistor value (Ra), indicated in the remarks column, has been inserted across the link(s) on valve panel.
- J Use special 9 clip valve holder fitted to Valve Tester type 160.

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Base	Type	REMARKS	Civ. Equiv.
CV16	234 000 000	A <sub>1</sub>	4	1	250		6	4.2	Disc seal	T	min slope	3J/145J
CV53	234 000 000	A <sub>1</sub>	4	1	250		6	4.2	Disc seal	T	See Note A min slope See Note A	3A/146J
CV82	234 000 000	A <sub>1</sub>	4	3	250		20	3.7	Disc seal	T	See Note A min slope	3A/141J
CV88	See Note C		6	0	250		4	5	Disc seal	T	See Note C	3A/148J
CV93	See Note C		1.4	0	20			0.7	Disc seal	T	See Note C	V625
CV105	020 000 030	D <sub>1</sub>	6				30		AO8	R		E1371
CV122	632 400 000		1.4	0	100			0.8	Special	T	See Note D	E1336
CV132	412 361 500		6	1.8	250	100	6.3	2	B7G	H		V885
CV201	021 540 300	A <sub>1</sub>	(2.5)	10	250	150	25	3.3	AO8	P		V630
CV229	623 400 000		1.4	0	100			0.8	Special	T	See Note D	1336
CV243	042 350 000		(5)	40	75	75	45	1.5	B5	P		4045A
CV273	346 000 000	H—	6	4	250		28	8.5	Disc seal	T		DET22
CV354	346 000 000	H—	6	2	250		10	6.5	Disc seal	T		DET23
CV384	642 300 000		(5)	30	400		62	7.5	B4	T		DET5
CV1155	642 300 000		4	0	75		0.7	0.2	B4	T		DEG
CV1223	642 300 000		(5)	30	400		62	7.5	B4	T		DET5
CV1508	002 300 000	A <sub>1</sub>	(5)	40	100				B4	R		V1913
CV1584	642 310 000		4	3.5	200		5.4	3.1	B5	T		41MTL
CV2000	412 361 500		6	2	250	250	10	7.5	B8D	P	See Notes J & E 5A/159M	
			2		200	150	4	6.4				
CV2001	412 361 500		6	1.5	250	250	10	7.5	B8D	P	See Notes J & E EF91	
			2		200	150	4	6.4				
CV2002	412 360 500		6	13.5	250	250	16	2.6	Spec	P	See Note J	6AM5
CV2003	412 360 500		6	13.5	250	250	16	2.6	Spec	P	See Note J	6AM5
CV2004	192 310 800		6				5		Spec	RR	See Note J	6AL5
CV2005	192 310 800		6				5		Spec	RR	See Note J	6AL5
CV2007	741 226 413		6	8.5	250		10.5	2.2	Spec	TT	See Note J	12AV7

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Base	Type	REMARKS	Civ. Equiv.
CV2008	412 300 600		6	2.2	150		10	8	Spec	TT	See Note J	A1714
CV2009	412 314 600		6	1.5	250		10	8.5	Spec	T	See Note J	5AQ4
CV2010	762 344 100		6	1	100		8.5	5.6	Spec	TT	See Note J	6J6
CV2101	741 226 413		6	2	250		1.2	1.6	Spec	TT	See Note J	DF72
CV2013	041 230 651		6	4.5	250	250	40	11	Spec	P	See Note J	6CH6
CV2014	601 235 144		6	7.5	250	250	45	7	Spec	P	See Note J	6062
CV2015	256 101 403		6	7	250	250	10	6	B9G	P	See Note J	DDR2
CV2016	741 226 413		6	2	250		10.5	5.5	Spec	TT	See Note J	12AT7
CV2017	412 361 500		6	4	200	200	5.8	3.5	Spec	P	See Note J	VX3098
CV2020	412 365 100		6	2	150	125	7.5	5	Spec	P	See Note J	6AK5
CV2021	902 308 100		6				30		Spec	R	See Note J	—
CV2022	441 230 561		6	12.5	250	250	45	4.1	Spec	P	See Note J	6BW6
CV2023	412 361 500		6	2.5	250	200	8	2.5	Spec	P	See Note J	9D6
CV2024	412 366 100		6	2	100		11	7	Spec	H	See Note J	6BE6
CV2025	412 361 500		6	2 1.5	250	250	10	7.5	} Spec	P	See Note J	EF91
CV2101	040 230 650	1.25	0		75	150	4	6.4				
CV2156	241 7 143		20	14	250	150	30	3.9	B9G	PP		
CV2204	346 000 000	H—	6	1	250		20	3	Disc seal	T	min slope	DET22
CV2207	346 000 000	H—	6	1	250		20	3	Disc seal	T	min slope	VX3147
CV2231	*41 23* *51	A <sub>1</sub>	6	12.5	150	150	50	8.5	B9A	P		E2266
CV2243	041 230 651		6	2	200	125	17	8.4	B9A	P		PSG8
CV2267	Not known		6				30		Spec	RR	See Note C	F/6063
CV2268	Not known		6	2	250	250	10	7.5	Spec	P	See Note C	F/6064
CV2277	*41 23* 651		26.5	13	100	100	90	9.5	B9A	P		13E1
CV2838	Not known	A <sub>1</sub> /G <sub>1</sub>	2		60			0.3	Special	T	See Note C	VCRX397A
CV4036	001 230 000	D <sub>1</sub>	6				120		B9A(F)	R		F/8141
CV4046	241 756 143		6	14	150	125	30	3.9	B9G	PP		44A/160M
VU508	002 300 000	A <sub>1</sub>	(5)		40		100		B4	R		V191J

# APPENDIX IV.

## Test Data for Russian Valves

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE	
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
1B1P	208 564 300		1.2	0	60	40	1.0	0.25	No Data Available			B7G	DP	
1K1P	265 014 300		1.2	0.5	60	40	1.7	0.65	No Data Available			B7G	P	
2P1P	204 510 300		1.2	3.5	60	60	2.8	0.9	No Data Available			B7G	P	
6B2P	452 368 100		6.3	1.5	250	100	6.5	2.0	100	100	2	B7G	DP	
6K1P	412 365 100		6.3	3	250	100	6.7	1.85	100	100	1.9	B7G	P	
6K4P	412 365 100		6.3	1.0	250	100	11	4.4	100	100	4.4	B7G	P	
6KH2P	182 310 900		6.3				5		D			B7G	RR	
6N1P	641 237 410		6.3	4.8	250		8	4.3	100			8	B9A	T
6N2P	641 237 410		6.3	1.5	250		2.3	2	100			2	B9A	T
6N6P	641 237 410		6.3	2	125		30	10	100			28	B9A	TT
6N15P	762 344 100		6.3	2	100		8.5	5.6	100			5.6	B7G	TT
6P1P	651 230 400		6.3	12.5	250	250	45	4.5	100	PenLF		4	B9A	P
6P2P	412 365 000		6.3	5.5	125	125	35	8	100	100		6	B7G	P
6P4P	802 310 900		6.3				30		REC			15	B7G	RR
6S1P	612 304 000		6.3	7	250		6.3	2.2	100			2.2	B7G	T
6S2P	412 300 600		6.3	1.0	100		10	11	No Data Available				B7G	T
6ZH1P	412 365 100		6.3	2.2	125	125	5.5	3.55	100	100			B7G	P
6ZH2P	412 365 100		6.3	2.2	125	125	7.5	5.2	100	100			B7G	P
6ZH3P	412 365 100		6.3	2	250	150	7	5	100	100			B7G	P
6ZH4P	412 365 100		6.3	1	250	100	11	4.4	100	100		4.4	B7G	P
6ZH5A	412 365 100		6.3	2.0	250	100	10	9	100	100			B7G	P
G837	204 411 300	A1	12.6	85	400		60	3.5	No Data Available				B7G	P

## Commercial Valve Index and Cross Reference to British Service Types

NOTE:—Many of the commercial equivalents listed in the following pages will have different CV numbers, this is due to special service requirements which do not affect the radio engineer, e.g. interelectrode capacitance, bulb size, life test etc. It should also be noted that test data given in this manual may differ between equivalent valves, due to different sets of potentials having been selected for the test.

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
01A	750		1B7GT	760	
02DF	2260	DF64	1B21A	3586	471A
09	2725	3209	1B22	761	WE1378X
09D	1596	3209	1B23	539	729A
09J	1518	3209	1B24	725	
0517		PL5557	1B24A	3548	
0A/2	1832	STV150/30 150C2 G150/4K	1B26	576	
0A2WA	4020	M8223	1B27	713	TRC1
0A3	3798	VR75/30 QS75/40	1B32/532A	2648	532A
0A70	8243	1N87 QS75/40	1B35	369	
0A73	442	1N616	1B35A	3628	6038 BS412
0A79		1N541	1B38	3549	
0A85	1354		1B40	2914	
0A86		1N480	1B41	3550	
0A87		1N490	1B49	508	
0A91	7130	1N617	1B58	3745	
0A95	7041	1N618	1B63A	2826	
0A202	7040		1C1	782	X17 1R5 DK91
0B2	1833	STV108/30 108C1	1C2		DK92 X18 1AC6 X20
0B2WA	4028	M8224 QS1211	1C3		X25 1AB6 DK96
0B3	3799		1C5	1805	DL35 N14
0C3	686	VR105/30 G105/1D QS1206	1C5G	1803	DL35 N14
0C16	7010	2N115	1C5GT	1805	DL35
2-0C16		2N116	1C21	762	G1502D
0C44	7003	GET874 TK31C	1CP1	2302	DH3-91
0C70		2N279	1D5	764	U4020 405UA URIC/S
0C71	7005	2N280	1D5GP	705	1D5GT
0C72	7006	2N281	1D5GT	1806	
2-0C72		2N282	1D7	765	
0C73	5337	2N283	1D8GT	1811	
0C76		2N284	1D13	753	DA90 1A3
0C77	7007	2N284A	1E3		DC80 6375
0CP71	7129	2N577	1E5		KF35
0D3	216	QS150/40 VR150/30 150C3 G150/3D	1E5GP	766	1E5GT
0E3	431	85A1	1E7	1812	
0G3	449	STV85/10 85A2	1F1		DF96 1AJ4 1AF4 W25
0Z4	692		1F2	1758	DF92 1L4
0Z4A	517	1003	1F3	785	DF91 1T4 W17
1		G160/1C	1F4	767	
1A		G279/1C	1F5	768	KL35
1A3	753	DA90 1D13	1F6	769	
1A4P	754		1F7GV	770	
1A5G	755	DL31	1FD1		DAF96 ZD25 1AH5 1AJ5
1A5GT	756		1FD9	784	DAF91 1S5 ZD17
1A6	757		1G3	1817	1H4G
1A7G	1800	X14	1G5	771	
1A7GT	1802	DK32 X14	1G6G	772	
1AB6		DK96 1C3 X25	1G6GT	773	
1AC6		DK92 X18 1C2 X20	1G8	7026	ZR11
1AD4	2237	DF62 DF652	1G35	1787	4C35 XH8-100
1AD5		1W5 1AD5	1G50	2050	EN32
1AF4		DF96 1F1 W25 1AJ4	1H4G	774	
1AF5	9024	DAF96 N14	1H5G	1818	DAC32 HD14
1AH5		DAF96 1FD1 ZD25 1AJ5	1H5GT	1820	DAC32
1AJ4		DF96 W25 1F1 1AF4	1L4	1758	DF92 1F2
1AJ5		ZD25 1AH5 DAF96 W25/1F1	1LA6	775	
1AM4		1T4SF	1LB4	776	
1AN5		DF97	1LC5	777	
1AQS		1R5SF	1LC6	778	
1B3/8106	514	U41	1LD5	779	
1B3GT	1830	U41 DY30	1LH4	780	
1B4P	758		1LN5	781	
1B5/25S	759		1LN5E	781	

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
1M1	2980	Y25 1M3 D1771	1W5		1V5 1AD5
1M3	2980	1M3 DM70 Y25 1M3	1X2A	5032	DY80 R19
1N3		DM71	1X2B		R19
1N5G	1821	Z14 DF33	1Z2	2510	
1N5GT	1823	DF33	2		G155
1N21	727	1N21B CS2A CS37A	2-25A		AZ35
1N21B	367	CS2A CS37A	2-150D	3878	152RA
1N21C	3525		2A3	1831	
1N23	5012	1N23E 1N23C	2A5	1834	
1N23A	749		2A6	1769	
1N23B	2856		2A7	787	
1N23BM	2857		2A/100A		D/1
1N23CR	5013		2A/115D		2B23
1N25	2916		2AP1	790	DG4-1 1814P1
1N26	1785		2AP1A	790	1814P1 D64/1
1N28	2918	CS37A 1N21B	2B4	648	885
1N31	3509		2B7	1837	
1N32	5016		2B21	597	2X2A
1N34	2829		2B22	2931	
1N38	3551		2B23		2A115D
1N43	2919		2B29	2666	829B QQV07-40
1N47	3729		2B32	788	832A QQV04-15
1N53	5015		2B35	1092	6D1 EA50
1N54	1354	0A85	2B36	1078	T4D
1N54A	2961		2B52	2789	QQV03-20A 6252 TT20
1N58	1354		2B94	2797	QQV06-40A 5894 TT25
1N60		0A159	2BP1	3678	
1N64		0A160	2C21	875	RK33 1642 RK22
1N69	2923		2C22	792	
1N72	2974		2C26	802	2C26A
1N75		0A161	2C26A	1759	3B/105D
1N78	5014		2C33	793	RX233 RX233A
1N81	2928		2C34	18	4074A
1N87		0A70 1N87/A	2C39A	2516	TD1-100A 3H151J
1N87/A		0A70	2C40	2643	446A 446B
1N198	5076	6CL6	2C42	2932	TD3-12
1N476	1353	0A81	2C43	688	TD3.5-12
1N478	1354	0A85	2C45	596	38142
1N480		0A86	2C46	2933	TD05-12
1N490		0A87	2C51	2831	
1N541		0A79	2C51W	2866	
1N542		2-0A79	2C53	3559	
1N616	442	0A73	2D2	794	
1N617		0A91	2D4A	795	D41 D400 DDL4 V914
1N618	7047	0A95	2D13A		DDT13S
1P1		DL96 N25 3E5 3C4	2D13C	796	10D1
1P5	728	1T6GT	2D21	797	EN91 20A3 5727 4G/280K
1P10	484	DL92 N17 3S4	2D21W	2876	M8204
1P11	2983	DL94 N19 3V4	2D21Wa	4018	M8204
1P21	5138	27M1 931A	2DP1	1813	
1P23	2680	868 918 913	2E22	798	2P22
1P28		27M3 MS-9SY	2E26	3990	QV0-10
1P30	1764	CE2 71A3	2E30	2517	
1P31	3812	WE3A 3AE	2G	1842	
1P32	405	CE25 55CG 2530	2G8	7027	2R12 1S001
1Q5G	1824	DL36	2G/402A	1835	3B28 ESU103 RR3-250
1Q22	3555		2G/472B	2518	4B32 RR3-1250
1R4	2709		2G/473C	2399	GXU3 RR3-1250A
1R5	782	DK91 X17 1C1	2H28	1835	3B28 RR3-250
1S2		DY86	2H66	32	866A RG3 250A
1S2A		DY87	2J21	2778	2J21A
1S4	783	DL91	2J21A	719	
1S5	784	DAF91 ZD17 1FD9	2J22	800	
1T2		R16 U37	2J26	1760	
1T4	785	DF91 W17 1F3	2J31	1807	
1T5GT	1829		2J32	1808	
1U4	2507	DF904 5910	2J33	1809	
1U5	3912	DAF92	2J34	1810	
1V	1999	6Z3	2J36	514	
1V2	3994		2J42	3676	JP9-7 MAG3 M503
1V3		DCF60	2J42A	3997	MAG4 JP9-15 6027
1V5		1W5 1AD5	2J48	1822	

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
2J49	3687	JP9-50B	3A/135A	2598	264A 426A
2J50	2793	JP9-50C	3A/141A	1639	4101E 3A/141AY
2J51	3560	JPT9-60 2J51A	3A/142A	1641	4102D 3A/142AY
2J51A	5134	JPT9-60 2J51	3A/144A	1694	
2J54	801		3A/145/J	16	525A
2J56	2852	JP9-50	3A/146J	53	
2J58	997	3092	3A/147J	82	
2K28	1892		3A/148J	88	
2K33	1786		3A/167M	5112	437A
2K41	3904		3A/204D	24	HL41
2K48	3669		3A/205D	1130	HL23
2N115	7010	0C16	3AB4		PC92
2N280	7005	0C71	3AE	3812	1P31 3A
2N281	70C6	0C72	3AJ8		XCH81
2N2E4A	7077	0C77	3AL5		XAA91
2S/140G	469	EA76 6489	3ALP1	2175	DG7-5
2S/141G	4504	7435	3AMP1	2431	DG7-32
2S/280K	371	19G6	3AP1	602	906P1
2S/306B	121	19H1	3AT4A		PC93
2S/370D	265	19E2	3AU6		XF94
2S/460A		ESU112	3B4	2240	DL98
2S/460C	2160	ESU77	3B7	811	
2S/490C	1504	V1901	3B21	2959	3B22
2S/550C	490	19H5	3B22	3815	
2S/570E		PSV13	3B24	812	732A 428T CE230
2S/590E		19H12	3B24W	2858	1K24 428T 732A
2T/240D	277	19G3	3B24WA	4021	732A 428T 3B24
2T/270K	261	HR2 R10 6305	3B26	3575	
2T/350D	2180	19H4	3B28	1835	RR3/250 ESU130 2H28 GXU1 2G/402A
2T/360B		19G12	3B29	3689	1K29
2T/450E	3587	705A	3B/100B	1689	PA1
2T/460C	74	ESU74	3B/102B	64	
2V3G	804		3B/105D	1759	2C26A
2V/301B		ESU101	3B/151A	1648	4205E
2V/302B		ESU115	3B/152K		11A1
2V/360C	1446	4017B	3B/200B	1047	TZ05-20 T206
2V/390C		2V/474C	3B/240M	2214	
2V/395C	2943	ESU76	3B/241M	5116	
2V/400A	32	886A DQ2 ESU886 2H66 RG3-250A	3B/252B	1688	4033L
2V/401C	1446	4017B	3B/254D		6BD4A
2V/470C	1355	4049C	3B/251A	1448	4043C
2V/471A	1449	872A	3B/350A/B	1448	4043C
2V/474C		2V/390C	3B/400A	1452	4300A
2V/500C	5	4049D RG4-1250 U20/21	3B/401J	127	
2V/520A		DCG6/18	3B/402A		ES1101
2V/521		ESU107	3B/501A	49	
2V/531E	1420	869B 4078A	3B/503B		4304CB
2V/540		ESU111 WL-869B	3B/504B	1288	4304CB
2V/561E		4079	3B/650A		4094
2V/590E		4080A	3B/651A		4242
2W/540E	1601	4222B	3B/850A	25	4242A ES85
2W/541E		4007A	3B/851A	1620	DET6 4094A
2W/542E		4222B	3BLP7		DP7-10
2X/105G	448	0A71 GEX54	3BLP31		DH7-10
2X/106G	425	0A74 GEX44	3BP1	814	3BP1A
2X2	3748	2B21 143D 2Y2 2X2A	3BP1A	2934	
2X2A	597	1K22 R612G 879	3BX6		XF80
2X2/E97	3748	2X2A	3BY6		XF85
2XM-600M		86BA	3BY7		XF85
2Y2	597	R1626 2B21 2X2	3C4		DL96 1P1 N25
3/C2AM	2230	965K	3C6		XXB
3A	3812	1P31 3AE	3C22	999	
3A4	2390	DL93	3C23		PL3C23 TQ1/2
3A5	808	DCC90	3C24	789	2T24
3A/105B	809		3C31/C1B	1765	5664
3A/107A	249		3C34	941	HK24 25T
3A/107B	1655	AR11 425XP	3C45	372	XH3-045 1G45P
3A/108A	1653	AR12 4020A	3C/100E		ES1102
3A/108B	1657	4020B	3C/201A		4212E
3A/109A	1671	4021A	3C/250A	1034	DET3
3A/109B	1663	AR20 4021B	3C/270A	1252	4212E V1505 MY3-275
3A/110B	1659	4022B	3C/270E		DET27R

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
3C/350E	30	4270A	3Q/220E		4009B
3C/351H	27	4357A 833A TY4-350	3Q/260E	446	
3C/495A	3581	V1501	3Q/293E	1447	4030D
3C/500E		14D12	3Q/310E	3873	
3C/750G		EHZ350	3R/167E		16P13
3C/751E		14D14	3R/167S		16P12
3C/800E		15D12	3R/167W		16P14
3D6/1299	815	1299 3D6	3RP1	3941	
3D21A	2659	5B/152D	3S4	820	N17 DL92 1P10
3D22	2851	4G/401A	3V4	2983	DL94 N19 1P11
3D/100A	1422		3V/280B		4039A
3D/102E		ES1001	3V/281B		VLS432A
3D/120E	1422	3D/100A	3V/390A	5027	PL5559 XG1-2500
3D/150G	2735	4015A	3V/390B	5828	FG57
3DL4		YC88	3V/390E	5027	
3DP1	816		3V/391A		21N15
3E5		N25 1P1 DL96	3V/420B	2126	
3E29	3599	QQV5-P10	3V/470A		4049GD
3EG1	1526	701D	3V/490A		XG2-6400
3EH7		XF183	3V/490E		4049GD
3EJ7		XF184	3V/500A		EST102
3EP1	817	1806P1	3V/530E	477	
3ER5		YC95	3V/531E	477	
3ER6		PC95	3V/540A		21N12
3FP7	1761		3V/590E		4080GA
3G15		C1A	3W4		3S4SF
3G/450A		ZT1011 21B12	3WP1	3946	DG7-36
3G/501A	2215	TK2/6 XR1-6400 5545	3Z/252E		ESV4002
3G/502A		6807 XR1-6400A	4-65A	1905	QY3-65 3F65
3G/510A		21B13	4/100BU	1264	FW4-500 U18/20
3GP1	516		4-125A	2963	4F21 4D21 Q160-1 RS685
3GRK	442	GEX35 0A73	4-240A	2131	
3H/151J	2516	2C39A TD1/100A	4-250A	2964	QY4-250 Q400/1 5F22 5D22
3J31	1788		4-400A	3879	QY4-400B 5F23
3J/121E	28	ACT9	4-1000	3880	7F25
3J/122E		BR1138	4A1	821	
3J/160E	2245		4A/137B	243	4045A
3J/162J		BR1129	4B13	26	813 QY2-100 5C/100A
3J/166E		16J12	4B22	2936	
3J/167E		ESA1500	4B24	822	EL3L
3J/170E	2905		4B25		WL670A
3J/195E	5071		4B26	1836	1163
3J/196E	1688	ESA891	4B28	2777	
3J/197E	904	ESA892	4B30	934	15R 8022
3J/198E	2687	ESA5000	4B31	3510	
3J/260E	2908		4B32	2518	RR3-1250 DQ4 GXU2 2G/472B
3JP1	2935	DG7-14	4B35	926	12X825 WE327A
3JP7	2869	DP7-14	4B36	2779	20X672
3JP12	2816		4B/700A		4282B
3KP1	3733		4B/700E		4282B
3NP4	1737	MW6-2	4BL8		XCF80
3P/270B	2950	129B 3Q/191E	4C21	2576	211 211W
3Q4	818	N18 DL95	4C22	2987	HF100
3Q5GT	819	DL33 N16 N15	4C27	92	E1232
3Q84E		4220C	4C30	933	15E 8023
3Q/120G	1605	4013C	4C35	1787	XH8-100
3Q/150E	1450	4228A	4C/100A	2756	4260A
3Q/167E		ESW1500	4C/800E		4278A
3Q/180E	1603	4014A	4CF8		PCF86
3Q/181E	1600	4006A	4CM4		PC86
3Q/183E	2749	4081A	4CX250B	6137	7203 4HC/16M
3Q/184E		4220C	4CX250F	7204	3A/172B HL13C
3Q/185E		4220C	4D1	1109	HL132D
3Q/191E	570	3Q/195E	4D21	2963	Q160/1 4-125A RS685
3Q/195E	570	3Q/191E	4D32	3543	C1123
3Q/196E	2688	ESW891	4DL4		PC88
3Q/197E	904	ESW892	4E27	824	HK257B
3Q/198E	2687	ESW5000	4EH7		YF183
3Q/211E	1604	SS1971	4EJ7		YF184
3Q/212E	1797	4081A	4EP1		DH10-94
3Q/213E	1734		4ER5		PC95
3Q/214E	1797	4081A	4ES8		XCC189

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
4FR15R	2519	4X150A QV1-150A	5A/160H		6F11 6AM6 6064
4FC7		XCC89	5A/160K		6F11 6AM6 6064
4FP7		5087	5A/163K	1635	
4FY5		PC97	5A/164K	3536	LS408A
4G8	7028	2R14 1S003	5A/170K	3998	E180F 6688 EF861
4G23		3C23	5A/172G	4501	7432
4G63		5563	5A/173G	4502	7433
4G93		393A	5A/174G	4503	7434
4G/280K	797	2D21 20A3 EN91	5A/175G	4506	
4G/281D	1848	20A2	5A/185K		D3A
4G/320D	1424	21A1	5A/200D	1116	6F32
4G/401A		3D22	5A/201K	329	6F33
4H32	2518	4B32 3B22 RR3-1250 GXU-2	5A/204D	276	11E2
4H72		872A	5A/207D		SP41
4H73		673	5A/208D		V453
4H88		8008	5A/210K	416	6F17
4H/135M	2519	4X150A QV1-150A 4CX250B	5ADP1	5035	DG13-34
4H/136M	3991	4X150D QV1-150D	5ADP7	5125	DP13-34
4H/160M	2487	4X250B	5ADP11		DB13-34
4H/182E	1883		5AL5	1377	GZ34
4HC/160M	6137	4CX250B	5AP1	832	1805P1
4J/26	3779		5AQ4	1864	GZ32 5V4G 5T4
4J27	3780		5AR4	1377	U52 GZ34
4J28	3781		5AZ4	1268	U50 R52 5Y3
4J29	3782		5B1	1018	Z21 PM12 S215
4J30	3783		5B21		1164
4J31	1914	M518A	5B/100A	1369	4061A
4J33	1916		5B/102D		11E14
4J34	1897	M518A	5B/103B	73	11E3
4J35	1898	M518A	5B/104D		ZAA
4J50	2284	JP9-250	5B/151A	1080	4307A 307A
4J52	3569	JP9-80	5B/152D	2659	3D21A
4J52A	5018	JP9-80A	5B/250A	124	QV05-25 807 QE06/50
4J53	513	M518	5B/251M	428	5B/254M
4J54	3947		5B/252M	391	LS650 5B/255M
4J55	3948		5B/253M	499	5B/256M
4J56	3949		5B/254M	428	5B/251M
4J57	3950		5B/255M	391	LS650
4J58	3951		5B/256M	499	5B/253M
4J78	3953	JP9-250A	5B/257M	2220	
4JC/201E		7007	5B/258M	2347	
4KM100LA		K376	5B/300B	834	
4KM100LF		K377	5B/351D	345	12E1
4PR60A	2752	QV20-P18 C1133	5B/352D		12E1A
4SH	1126		5B/353D		12E1B
4SHA	825		5B/354D		12E14
4T16		100TL	5B/355D		12E1C
4T17	1924	100TH	5B/362D		12E13
4T100		813	5B/502A	1096	828
4THA	826	A36C TH4 AC/TH1	5B/600A	1081	4052A
4TPB (CLEAR)	828		5B/700A	631	828
4TPB (MET)	829		5BKP/31	5168	DH13-97
4TSP	830	TSP4 AC/SP3	5BP1	601	5HP1
4X150A	2519	QV1-150A 4F15R	5BP4/1802P4	836	
4X150D	3991	4F20R QV1-150D	5C22	2520	XH16-200 HT415
4X150G	3893	QV1-150G	5C/100A	26	813 QY2-100
4X250B	~2487	4H/160M QV2-250B	5C/101A	1372	4669A
4X500A		QBL4/800 QY4/500A	5C/450A	1506	ESP450
4XP	1168	AC044 PP3/250 PX4	5C/500		P300-1
5/62CM		5BHP1	5CP1	600	DG13-2
5/62PM		5BHP11	5CP1A	2191	DG13-2
5A6	2360		5CP7	838	5CP7A
5A/102A	3784		5D21	2814	P552/1E Q160-1 4-250A 4B/602E
5A/102D	1724	329A	5D22	2964	Q400-1 RS686
5A/105A	1726		5D/100A	1627	
5A/128B	244	4046A	5EGP1		5ADP1
5A/136A	2619	4328A	5ES8		YCC189
5A/136D	245	4328D	5F22A	2131	6156 QY4-250
5A/150A		QV05-25 807 4310A	5FC7		YCC89
5A/156M	1136	EF54	5FP4A		MW13-35
5A/157D	3558	EF37A 0M5B	5FP7	718	MF13-1 MP13-39
5A/159N	2000	EF91 HP6 6AM6 Z77	5FP7 (Special)	1789	5FP14

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
5FP7A	3959	MF13-1	6AJ7	849	6AC7 1852
5FP11	5070	MB13-1	6AJ8	2128	ECH81 6C12 X17
5H4	840		6AK5	850	EF95 5654 E94F EF905 5591 6096
5H69A		869B	6AK5W	2877	M8100
5HP1	3583	5BP1	6AK6	1762	EL91
5HP1A	3583	5BP1	6AK7	1784	6AG7
2J23	542		6AK8		EABC80 6LD12 DH719 6T8 6GX8
5J26	3602	JNT1-500W	6AL3		EY88
5J29	3842		6AL5	283	EB91 6D2 D77 EAA91 M8079
2J30	3843		6AL5W	2882	M8212 5726
2J31	5844		6AL7	3708	
5J32	1538		6AM4	5073	
5J59	3952		6AM5	136	EL91 N144 7D9 6P17 N77
5J/180E	445		6AM6	138	EF91 6F12 Z77 SP6 8D3 6064
5JP1	1791	5JP1A	6AN4	3989	
5JP2A	3918		6AN5	2854	
5L/444	311		6AN7		ECH80
5LP1	741	2511A5	6AQ4	417	EC91 6L34
5MP1	740	2505A5	6AQ5	1862	EL90 N727
5R4GY	717	5R4WGA	6AQ5W	2883	M8245 6005
5R4WGY	2835		6AQ6	2937	EBC91 6AV6 6066
5T01A	1868	MF13-1 5FP7A MF13-39	6AQ8		ECC85 6L12 B719 6463
5T4	1846	U52 GZ34 5U4	6AR6	3613	EL34
5T21		250TH	6AS6	2522	
5T33	635	833A TY4-350 3C/402E	6AS6W	2884	M8196 5725
5U4G	575	U52 GZ31 5V4G	6AS7G	2523	A1834 6080
5U4GT	841	U52	6AT6	452	EBC90 DH77
5U8		XCF82	6AU6	2524	EF96
5UP1	5223	DG13-22	6AU6WA	4023	
5UP7	2840		6AU7	5052	ECC82
5V4G	729	GZ32 5AQ4 52KU	6AV3		EY89
5W4	1849	U50	6AV4	135	EZ91
5W4G	842		6AV6	2526	EBC91 DH77
5W4GT	503		6B4		6A3
5X4	1852		6B4G	851	
5X4G	1851		6B5	1885	
5Y3G	1854	U50 R52 5AZ4	6B6	1887	DH63
5Y3GT	1856	U50 R52 5AZ4	6B7E	1891	
5Y3WGTA	4027		6B8G	1893	EBF32
5Y4GT	1857		6BA6	454	EF93 W727
5Z3	1861	U50 4274A 22S/200A	6BAW	5037	5749
5Z4	1864	GZ30 R52U50	6BA7	2527	
5Z4G	1863	GZ30	6BC4	5038	
5Z4GT	2748	GZ30	6BC5	848	
6/02K		1652M	6BD7		6AG5 EF96
6/30L2	5264	B729 6GA8 ECC804	6BD7A		EBC80
6A3	730		6BE6	453	EBC81 6LD13
6A6	1867	HLA2 41MTL 354V ACHL B63	6BE7		EK90 X77 X727 5750
6A7	1870	6A7E	6BG6	1887	EQ80
6A8	579	X63	6BH5		
6A8G	578	X63	6BH6	3908	EF81
6A8GT	580		6BJ5		E90F 6265 7693
6A/2.3K	132	6H1	6BJ6	3909	N78
6AB4		EC92	6BK8	2901	EF86 6267
6AB5	843	6N5	6BL6	3614	
6AB7	1873	1853	6BL7	5039	
6AB8		ECL80 LN152 63TP	6BL8	5215	ECCF80 6C/6
6AC5G	844		6BM6	3616	
6AC5GT	845		6BM6A	3939	
6AC7	660	1852 6AJ7	6BM8		ECL82 6PL12
6AD7	1878		6BN5	3526	EL85
6AD8		EBF81	6BQ5	2975	EL84 N709 6P15
6AE8	5115	X79	6BQ6	5040	
6AF4	5036	EC93	6BQ7A	5365	ECC180
6AF4A	5074		6BR5	1352	EM80 65ME
6AF6G	847		6BR7	2135	8D5 6059
6AG5	848	EF96 6BC5	6BS4		EC93
6AG6	1438	EL33 KT61 6M6	6BS7	5086	EF86 8D7
6AG7	1882	EL821	6BT4	3891	EZ40 UU9 66KU U150
6AH6	2521		6BT6	452	EBC90 DH77 6AT6 6066
6AJ4	5126	EC84	6BW4	5072	EZ81 UU12 U709
6AJ5	995		6BW6	2136	

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
6BW7	5817	EF80 8D6 2152	6F5	1909	H63
6BX6	1376	EF80 Z719 Z152 64SPT	6F5G	1908	H63 N63
6BY7	1375	EF85 W719 6F19	6F5GT	1910	
6C4	133	ECH90 L77 EC90 QA2401	6F6	1912	N63 KT63
6C4W	2842	EC90	6F6G	1911	KT63
6C4WA	4058	M8080	6F6GT	731	KT63
6C5	582	L63 6J5	6F7	1915	6F7E 6F7B
6C5G	581		6F8	1819	
6CFGT	583		6F8G	1917	
6C6	585		6F11	1901	
6C7	854		6F12	138	6AM6 8D3 EF91 Z77 SP6
6C8G	1896		6F13	1839	1T5GT
6C9	3888	ECH42 X150 ECH113	6F14	1919	
6C10	3888	ECH42 X150 62TH 6CU7	6F15	3886	EF41
6C12	2128	ECH81 X719 6AJ8	6F16	3886	EF41 W150 62VP 6CJ5
6C16	5215	ECF80 6BL8	6F17	416	5A/210K
6C21	855	ZP527 1000SP	6F18		W739 6EC7
6C31	1581	ECH35 X65 6K8 6E8	6F19	1375	6BY7 EF85 W719
6C56		EH90	6F20		N79 W729
6CA4	5072	EZ81 UU12 U709	6F21	131	EF92 VP6 W77 6CQ6 9D6
6CA7	1741	EL34 KT77	6F22	2901	EF86 Z729 6267
6CB6	3995	EF190 6CF6	6F29		EF183 6EH7
6CD7	394	EM34	6F30		EF184 6EJ7
6CF6	3995	EF190 6CB6	6F32	1116	5A/200D
6CF8	2901	EF86 EF806S Z729 6F22	6F33	329	5A/201K
6CH6	2127	EL821 6132 7D10	6F33 Special	2209	6AS6
6CJ5	3886	EF41	6F50R		4X500A QY4-500A
6CJ6	2721	EL81	6FD12		EBF89
6CK5	3889	EL41	6FG6		EM84
6CK6	2726	EL83	6G5		6U5 6M1
6CL6	5041		6G5G		6M1 Y61 EM35
6CM4		EC86	6G6G	1926	
6CM5	2940	EL36	6G8	7029	1S004
6CN5	862	N66 EL35	6G8G	856	
6CN6	450	EL38	6G10		FG105 XGQ2-6400
6CQ6	2937	9D6 EF92 W77 6F21 QA2400	6G45	2215	5545 XR1-6400
6CR4		A2521	6GM8		ECC86
6CS6	453	EH90	6GW8		ECL86
6CT4	5242	A2599	6H1	132	V885 6A/203K
6CT7	3883	EAF42 WD150	6H5		6U5 6M1 6G5
6CU7	3888	ECH42 6C9 X150	6H6	1930	D63 EB34
6CV7	3882	EBC41 LD3 6C10 DH150	6H6G	1929	D63
6CW5	5094	EL86	6H6GT	1931	D63
6CW7	5281	ECC84 6L16 B319	6HV6		EM87
6D1	1092	EA50 6DR4 SB35	6J4	1763	M8248
6D2	383	6AL5 EB91 D77 D152 DD6	6J4WA	5029	M8232
6D4	1949	EN93	6J5	1933	L63
6D6	1900		6J5G	1932	L63
6D7	1776		6J5GT	1934	
6D8	1902	X73M	6J6	858	ECC91 M8081
6DA5	5055	EM81	6J6W	2843	
6DA6	5156	EF89	6J6WA	4031	M8081 M8212 6101
6DC8		EBF89 6FD12	6J7	1936	Z63 KTZ63
6DG7		EM85	6J7G	1935	Z63
6DJ8	5358	ECC88	6J7GT	1937	
6DL4		EC88	6J8G	859	6C31 6K8
6DL5		EL95	6JX8		ECH84
6DR8		EBF83	6K4	468	EC70 6778
6DS8		ECH83	6K5G	860	
6DU6		EF89F	6K5GT	861	
6DX8		ECL84	6K6G	1938	
6DY5		EL82	6K6GT	1940	
6E5	1906		6K7	1942	W63 W61 KTW63
6E8		X61 6K8	6K7G	1941	KTW63
6EH7	5831	EF183 6F29	6K7GT	1943	
6EJ7	5810	EF184 6F30	6K8	1945	X61 6C31
6ER5		EC95	6K8G	1944	X65 ECH35
6ES6		EF97	6K8GT	1946	
6ES8	5331	ECC189	6K25	2217	
6ET6		EF98	6L5G	862	
6F1	3841		6L6	1948	KT66
6F4	2939		6L6G	1947	EL37

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
6L6GA	2817		6SQ7GT	1991	
6L6WGA	3618	5932	6SR7	867	
6L6WGB	2796	5881	6SS7	1993	
6L7	1951	X64	6ST7	1996	
6L12		ECC85 6AQ8 B719	6ST7G	1995	
6L13	492	12AX7 ECC83 B339	6SU7		ECC35
6L16	5281	ECC84 6CW7	6T4	3808	
6L18	1899		6T7		DH73
6L19	1850		6T7G	500	
6L34	417	EC91 6AQ4	6T8		EABC80 DH719 6AK8
6LD3	3882	EBC41 DH150 DH718 6CV7 62DDT	6T35		15D12
6LD12		EABC80 6AK8 6T8 DH719	6TH8		6P8
6LD13		EBC81 6BD7A	6U3		EY80
6LD20	1920		6U4GT	5287	
6LY1	1530	1652M	6U5/6G5	504	6M1
6M1	2747	6U5 EM35 Y61 63ME 6G5G	6U5G	2747	Y61 Y63 EM35
6M2	394	EM34 6CD7	6U7G	706	W63 KTW63
6M5		EL80	6U8	5065	ECF82 6678
6M6		EL33 6AG6 6P25 KT61	6V3A	5021	
6N3		EY82	6V4	1535	EZ80
6N5	843	6AB5	6V6	510	
6N6	1954		6V6G	509	
6N6G	1953		6V6GT	511	
6N7	1957		6V7G	870	
6N7G	1956		6W2		6X2 EY51 R12 R12A
6N7GT	1958		6W5		U70 EZ35
6N8		EBF80 WD709 ZD152	6W7		8D4
6N030T		S30/2K	6W7G	512	
6P5	1819		6W50		W5/1G
6P7	864		6X2	426	EY51 R12 R12A 6W2 U43 U151
6P8		0M10	6X4	493	EZ90 U78 QA2407
6P15	2975	EL84 6BQ5 N709	6X4W	4005	6063
6P17	136	EL91 6AM5 7D9	6X5	573	U70 6ZY5 EZ35
6P25	1853	KT81 6AG6 EL33	6X5G	572	
6PX6		6P25 EL33 KT61	6X5GT	574	U70 EZ35 U147
6Q4	1886	EC80	6X5WGT	3734	
6Q5	1815	884	6Y3	1816	
6Q6		DH73	6Y6G	515	
6Q7	588	DL163	6Z4	619	84
6Q7GT	587	DH63	6Z5	871	1225
6R3	5905	EY81	6Z7G	872	
6R4	1865	EC81	6ZY5		6X5 EZ35 U70
6R6G	1960		6ZY5G	873	
6R7	1963	DL63	7	874	
6R7GT	1964		7A	823	WE7A
6S2	2966	EY86	7A2	1174	Pen4VA AC/Pen MKT4 PT4
6S2A		EY87	7A3	1181	PenA4 AC2/Pen KT41
6S7	1975	KTW61	7A4	1770	
6S7G	1974		7A6	876	
6SA7	1966	6SA7GT	7A7	877	
6SA7GT	1967		7A7LM	877	W81
6SC7	1969		7A8	878	
6SC7GT	1970		7AH7		PCC84
6SD7GT	865		7AHP1	2352	DG16-22
6SF5	1972		7AHP7	2498	DP16-22
6SF5GT	1973		7AHP11		DB16-22
6SG7	1978		7AN7	5192	PCC84 B319 30L1
6SH7	594		7AU7		XCC82
6SH7GT	595		7B	824	HK257B
6SH7L	5067		7B4	879	
6SJ7	591		7B5	880	EL22 KT81 NI48
6SJ7G	590		7B5E	880	
6SJ7GT	592		7B5LT	881	
6SJ7WGT	3619		7B6	882	DH81 DL82
6SJ7Y	866		7B6LM	822	DH81
6SK7	1981	6SL7	7B7	522	W149
6SK7GT	1982		7B8	883	
6SL7GT	1985	ECC35	7B8LM	883	
6SN7	278	B65 QA2408	7BP7	884	1813P7 7B4
6SN7GT	1988	B65 ECC32	7BP7A	3637	1813P7
6SN7WGT	3627	QA2408	7C4/1203A	2706	7C4
6SQ7	1990		7C5	885	N148

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
7C5LT	886		9LP7	2789	2P455
7C6	887	DH149	9MD6	262	
7C7	1777		9MO6A	2108	
7C24	5762		9MW5AX	2192	
7D5	1425	N30	9PK5	109	
7D6	1672	Pen3520 Pen36C Pen383	9T71		5770
7D8	889	Pen13C Pen1340	9U8		PCF82
7D8S	1328		10	603	2C23
7D9	136	EL91 6AM5 N144 6P17 N77	10 Special	906	GL1602
7D10	2127	EL821 6CH6 EF82	10C1		X145 X118
7DJ8		PCC88	10C14		UCH81 X119 19D8
7E5/1201	2704	1201	10D1	1300	DD620 2D13C
7E6	891		10D2		UAA91
7E7	892		10D3	1419	HAD1320 13DHA
7E58		PCC189	10F1		Z145
7F7	893		10F9		W118 W145 12AC5
7F8	2968		10F18		UF89 W119
7F16	3886	EF41 6CJ5	10FD12		UBF89 WD119 19FL8
7F25A		4-1000A	10KP7	3693	
7G7	894	EF22	10L14		B109 UCC85
7H7	895	W148 W81	10LD3		DH118 DH142 UBC41 14L7
7H57		857B	10LD11		DL145
7HG8		PCF86	10LD12		UABC80 DH109
7J7	897		10LD13		DH119 UBC81
7K7	896		10M2		UM4 UM35
7MB1A	1880		10P13	1977	N118 N145 UL41
7N7	898		10P18		N119 UL84 45B5
7Q7	899		10PL12		UCL82 50BM8 LN119
7R7	900		10Y	603	
7S7		X81 X148	11A1		3B/152K
7UP7	3639		11A2	2813	AC/HL/DD MHD4 DDT
7W7	902	1282	11D3	1419	HLDD1320 TDD13C
7Y4	901	U82 U149	11D5	1695	DH30
7YP2	5061		11D12		ECC230 A4535 33B160D
7Z4	1790	U82	11E1	2798	QQV03-10
8A1	1124	SP4 MSP4 4046A 5A128B	11E2	276	5A/204D
8A1	1282	DG7-36 AC/5G	11E3	73	V1120B 5B/103B
8A3	3813	WE8A	11E13		55B/100K
8A8		30C1 PCF80 LZ319 LZ329 9A8	12/03HB		T939Z 3073Q
8B/087B		T954T	12/03LB		T939Y
8D2	1108	SP13C	12A/112A	1774	EF9
8D3	138	DF91 6AM6 6F12 SP6 Z77	12A5	908	
8D4		6W7	12A6	525	
8D5	2135	6BR7	12A6GT	526	
8D6		6BW7	12A7	909	ECC82
8D7		6BS7	12A8GT	910	
8D/03L3M	6143		12AC5		UF41 W142 10F9
8F66R		6166	12AEP6	429	MF31-55 C12R
8G7	7030	1S007	12AH7GT	529	
8HG8		PCF86	12AH8	5317	
8T21		9C21	12AJ8		HCH81
8T21R		9C22	12AT6		HBC90
8T71R		5671	12AT7	455	B309 ECC81 B152
8T92		892	12AT7WA	4024	M8162 ECC801S
8T92R		892-R ESA892 3J 197E	12AU6	1961	HF94
9/01	254	30D5	12AU7	491	B329 ECC82 6067
9/03HB		T938Z	12AU7WA	4003	6189 M8136
9/03LB	5300	T938Y 2273P	12AV6		HBC91
9-3	368		12AX7	492	ECC83 6L13 B339 6057
9A1	1172	VMP4G AC/UP1 MVS/Pen	12AY7	3650	
9A8		PCF80 LZ319 30C1 LZ329 8A8	12B8GT	911	
9AB4		UC92	12BA6	1928	HF93
9AK8		PABC80	12BE6		HK90
9AQ8		PCC85	12BH7	5042	
9D2	1106	VP1322 13VP8	12BK6		HBC91 12AV6
9D5	1053	OM5 EF39	12C8	531	
9D6	131	EF92 6F21 W77 6CQ6 VP6	12C8GT	3827	
9D1387		S102/3K	12DP7	913	
9HP7	905		12DP8	914	12DP7
9JP1	1783		12E1	345	5B/351D
9LD1	254		12E1A		5B/352D
9L01A	464	T921Z	12E1B		5B/353D

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
12E1C		5B/355D	14R7	3937	
12E12	398	715B P535/1E 4B/603E	14S7	3936	
12E13		5B/362D	15	931	
12E14		5B/354D	15A	986	
12FP7	915		15A2	3576	MX40 41MPG A80A FC4 X42
12H6	916		15A6		PL83 N309 N153
12J5	534		15B	326	
12J5GT	535		15CW5		PL84 N379 30P18
12J7GT	917		15D1	2956	FC13C 15D2
12K7		W76	15D2	1107	
12K7GT	918	W76	15D12		3C/800E
12K8	703	X76M	15DQ8		PCL84
12K8GT	3927	X76M	15E	933	8023 4C30
12L01A	2162	T922Z	15L01A	1744	
12MW3		C12D	15MW3A		C15B
12MW3A		C12B	15R	934	4B30 8022
12Q7		DH76	16A5		PL82 30P16 N154 N329
12Q7GT	547	DH76	16A8		PCL82 30PL12
12S7		UAF42 WD147	16AQ3		XY88
12SA7	537	12SY7	16J12		3J/166E ESA2500
12SA7GT	538		16P12		3R/167S
12SC7	540	1634	16P13		3R/167E
12SF5	919		16P14		3R/167W
12SF5GT	920		16STE		L102/2K
12SF7	921		17(thy)	2957	PL5557 XG5-500
12SG7	694	6SG7Y	17BQP4		MW43-69
12SH7	922		17BTP4		AW43-80
12SH7GT	3651		17C8		UBF80 171 DDP
12SJ7	697		17CVP4		C17AA CME1706 AW43-88
12SJ7GT	698		17Z3		PY81 V253 PY83
12SK7	543		18GVB		PCL85
12SK7GT	544		19AQ5		HL9D
12SL7GT	924		19BD		PY80 U152 19U3 19X3
12SN7GT	925	B36	19BR5		UM80
12SP7	3655		19D3		UCH81 19D8
12SQ7	546	DH76	19D8		UCH81 X119 10C14 19D3
12SQ7GT	547		19E2	265	2S/370D
12SR7	700		19FL8		UBF89 WD119 10FD12
12SW7	3666		19G3	277	2T/240D
12SX7	3697	12SW7 B36	19G6	371	SU45 2S/280K
12SY7	3668		19G12		2T/360B
12T01A	1869		19H1	121	V1920 2S/306B
12T03A	2328	MF31-95	19H4	2180	2T/350D
12X825		68510	19H5	490	2S/550C
12XP4		MW31-74	19H12		2S/590E
12XP4A		MW31-74	19SU		PY82 U154 U319 U192 19Y3
12Y4	523		19T8		PY82 U319
12Z3	927	14Z3	19U3		PY80 U152 19X3
13CM5		XL36	19X3		PY80 U309 U152
13D1	423	25SN7GT	19Y3		PY82 U319 U154 U192 19SU
13D2	1988	6SN7GT	20A1	1424	TH4B AC/TH1 TH4 X41 41STH
13D3	2212	6158	20A2	1848	EN32 6574 4G/281D
13DHA	1419	11D3 HLDD320 TDD13C	20A3	797	2D21 EN91 PL21
13E1	2377	C1158 5B/900A	20CV	5120	
13PGA		15D1 FC13C	20D2		X31
13SPA	929	8D2 SP13C	20D3		12AH8
13VPA		9D2 VP1322 VP13C	20K	1379	
14/03TB		T935W	21/2	3584	
14A7	3935	12B7	21A6	5077	PL81 N339 N359
14ABP4		A W36-20	21B12		3G/450A ZT1011 XR1-1600
14ABP4A		A W36-20	21B13		3G/510E
14AF7		XXD	21CJP4		MW53-20
14AHP4A		A W36-80	21CLP4		A W53-80
14AKP4A		MW 36-24	21DKP4		A W53-88
14C7		1280	21DKP4A		A W53-88
14D12		3C/751E	22M1		1B59
14F7	930		21N12		3V/540A
14K7		UCH42 X142 141TH	21N13	612	57
14KP4A		MW36-24	21N14	5828	3V/390B
14L	1087		24A	936	24E
14L7		UBC41 DH142 10LD3	24B1	6008	V2023 GIT/180E
14LP4		MW36-24	24B2	339	

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
24C3	125	V2024 GIT/350E	35T	668	DET18
24G		3C24	35TG	1754	
25A6	549	KT33	35W4		HY90
25A6GT	550		35Z3	564	
25A7GT	937		35Z3LT	726	
25B6G	939		35Z4GT	2500	U76
25B8GT	940		35Z5GT	568	
25E5		PL36 30P4	36	1775	
25L6	552	KT32	37	606	
25L6GT	553	KT32	38	712	
25RE	942	25Y5	38A	712	
25SN7GT	423	13D1	38A3		UY85 U119 U381
25T	941	HK24 3C34	39/44	1771	329
25TG	789	HK24G 3C24	40	2501	
25Y4		PY31 U31 25Z4	40PPA		7D3
25Y5	942		40SUA	1267	1D5 U4020 UR1C
25Z4		U31 PY31 25Y4	40Z5	2530	
25Z5	555		40Z5GT	2530	
25Z6	558		41	608	41E
25Z6GT	559		41DS	1131	
26	943		41FP	2502	ML4 AC/P
26A7GT	3577		41MH	2503	MH41 484V HLA2 AC/2HL
26A6E		PY86	41MHF	1037	354V AC/L MH4
26B6		26D6	41MHL	2504	354V MH4 244V AC/HL
26D	2727	3226D	41MLF	1038	41MHL 244V
26J	2786		41MP	1458	ML4 TT4 AC/P
27	944		41MPG	2505	MX40 FC4 15A2 X42 VHT4
			41MPT	2506	
TYPE	CV No.	EQUIVALENTS	41MRC		AC/2HL
27GB5		PL500	41MSG		MS4B SP4 AC/SG MS/Pen SPT4A
27M1	337	931A 1P21	41MTL	1117	354V AC/HL
28D7	945		41MVSG		SP4
28D7GT	946		41MXP	1122	PA1 AC/P1 354V
29C1	430	2A/230D	41PGD	3576	15A2 FC4 MX40
29D	2728	3229D	41STH	2508	AC/TH1 X41 20A1 TH4
30	604		42	609	42E
30A5		HL94	42E	609	
30AE3		PY88	42MP/Pen	1181	PenA4 7A3 PT4 KT41 AC2 Pen
30C1		PCF80 9A8 LZ319 8A8 LZ329	42MPT	1325	
30CA	987	V1040	42/OT	2511	PenA4 7A3 PT4 AC2 Pen KTA
30C12P1	1746		42/OTDD	2512	PenDD DDPP4B DN41 AC/2
30D5	1860		42/SPT	1444	
30E7	400	V1063P1	43	2514	
30E8P1	2216		43E	2514	
30HM/HD	1140	PX25 420XP D024	43IU	1039	R2 UU5 MU14 IW4/350
30L1	5192	PCC84 B319 7AN7	44A/160M	415	TT15
30P16		PL82 16A5 N329 N154	44IU	1039	R3 UU5 IW4/500
30P18		PL84 15CW8 N379 15CW5	45	610	
30TWIN	1780		45A5	1977	UL41 N142
31	947		45B5		UL84 N119 10P18
31A3		UY41 U142 U404 311SU	45DS	2528	
31C2	2965	RL7076-2B	45IU	2529	
31D14		T938Z	45SP	596	38412 2C45
31E14		T939Z	45Z5GT	2530	
32	711	32E 34	46	2531	
32A	951	32G 32E	47	1772	
32E	957	32G 32A	49	2532	
32G	953	32A 32E	50	2533	
32J	958	26J	50BM8		UCL82 10PL12
32L7GT	984	32A	50C5	1959	HL92
33	949		50L6G	2534	KT71
33A/100A	1750		50L6GT	571	KT71
33A/138A	18	7074A	50Y6GT	805	
33A/158M	1884		51	487	
33B/152M	1540		51A3		WL927
33B/160D		11D12	52CG	2896	203A CMG22
34	1751	32	52KU	1863	5V4 GZ32
34E	1751		53	2535	
35/51	1752		53A	2536	3-50J4
35A5LT	1753		53KU	378	U54 GZ37
35L6	561		54KU	729	GZ32 5AQ4
35L6GT	562		54NCP11	2885	54NCP11

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
55	2537		90CG	2133	FZ9012G CMG29
55B/100K		11E13	90C1	5173	QS1215
55B/200K		C1134	90CV	2134	FZ9012V CMV29
55CG	405	927 CMG25 CMG34X	90EG4	1587	901A
55N3		UY82	95A1	286	SM95 QS95/10
56	611		100B1	1199	
57	612	XG1-2500 5559 BT5 3V/390A	100R	2967	8020
58	613		100TH	2552	
59	2538		101D	1778	3A/141A
59A3	2962	1N38A	101F	2553	
59A4	2692	918	102D	1779	3A/142A
59D		WL928	104D		3A/144A
59TAV3		WL917	104V	1161	ML4 PA1 45P AC/P
60A3		WL920	105		PL105 XGQ2-6400
61A3		WL930	108C1	1833	0B2 STV 108/30 G108/1K QS1208
61BT	1979		111A	2554	
61DV3		WL929	112	1774	
61P	2539		116Pen	1337	
62BT	1745		117L7GT	2556	
62DDT	3882	EBC41 6LD3 6CV7 DH150	117N7GT	2557	
62TH	3888	ECH42 6C10 X150 6CU7	117Z6GT	2558	
62VP		EF41 6F16 6CJ5 W150	120A		4120A B4B/1A
63D	2540		121A	2560	4121A B8B/1A
63DS	2731	3263DS	121K		C12FM MW53-80 MW31-74
63ME	2747	6M1 6U5G EM35 Y63	121VP		UF41 12AC5
63SPT	1091	EF50 Z90	122A	2561	
63T1		ECL80 LN152 6AB8	129B	2950	3P/270B 3Q/191E
63TP		ECL80 6AB8	141DDT		UBC41 10LD3 14L7
64ME	394	EM34 6CD7	141K		MW36-24
64SPT		EF80 Z719 6BW7 6BX67 Z152	141TH		UCH42 14K7 X142
64SU	135	EY91	143D	557	D42
65ME		EM80 6BR5	150B2	2225	6354 QS1200
66KU	3891	EZ40 6BT4 V150 UU9	150B3	287	QS150/15
67PT	3889	EL41 6CK5 N150	150C2	1832	0A2 STV150/30 G150/45 QS1207
70B1	470		150C3	216	0D3 VR150/30 G150/3D
71A	2541	12A	150C4	1832	0A2 QS1207 G150/4K
			152RA	3878	2-150D
			154V	1037	MHL4
TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
71A3	1764	CE2 1P30	161	1708	
72	709	RX232 3B24	163 Pen		PL82 N329 16A5
72R	709	RX232 3B24	164V	2562	MHL4
73	2543	RK73 RKR73	171DDP		UBF80 17C8
73R	2543	RK73 RKR73	172K		MW43-69 17BQP4
75	614		173K		MW43-69 17BQP4
75B1	284	QS75-20	185BT	1980	185BTA
75C1	4080	6065 M8161	200	2988	HV18
76	615	37	202	1200	
77	616		202DDT	1419	11D3 HLDD1320 TDD13C
78	2544		202STH		TH2321 TH21C
78DS	1328	Pen1340 Pen13C	203A		4242A
79	2545	4274A 22S/200A	203B	2986	
80	617		204A	2563	UV204A
81	2546		205D	1749	3B/151A
82	1773		205E	2566	3B/151A
82AV4		WL919	205F	2567	
83	618	22V/310A	210DDT	1044	TDD2A H207
83V	2547		210DET	2569	HL2 210HF PM2HL
84	2548	84/6Z4	210HF	2570	PM2HL HL2 HLB1
84/6Z4	619	84	210HL	2571	PM2HL 210HF HL210
84A3		WL923	210HPT		KTS Pen220
85	2549		210LF	1021	HLB1 L2
85A1	431	OE3	210PG	1043	FC2 X22
85A2	449	QS83/3 OG3 QS1209/5651	210PGA	1043	FC2A X21
85A4		WL928	210RC	2977	HL2 HLB1 PM2HL
86BA		2XM-600	210SPG		FC2 X22
88D	2185		210SPT	1049	Z22 Z21 SP2
89	833	89Y	210VPA	2574	W21 VP210
89D	2193		210VPT	1083	W21 VP210 VP2
89J	2750		211	620	4C21
89Y	833	89	211 (Special)	2576	4C21
90AG	2270	FZ9011G CAG29			
90AV	2132	VA50 FZ9011V CAV29			

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
211H		T100-1	311		4242A 242B 203A
212E	2577	4212E MY3-275 3C/270A	311A	2614	
212K		MW53-80 C21KM	311B		4311B
213Pen	5077	PL81 N339 21A6	311CH		T100-1 211H
215P	1019	PL15	311SU		UY41 31A3 U142 U404
215SG	1018	PM12M Z21 S23	313C	2615	4313C G150/1A
218	2579		314A	2616	
220B	1032	PM2B PD220	316A	683	CL316A
220C	2580		322A	623	RK28A 38803
220DD	794	2D2	323A	2617	
220HPT	1118	PM22A 2200T KT2	327A	2618	5637 3-10063/327A 4B35 12X825
220IPT	1333	Z22	328A	2619	3B28A
220LF	1313		329A	2620	
220LPT	1195	KTW63	330B	2621	
220/OT	1118	PM22A KT2 Pen220 PT2	331A	2622	
220P	1020	PL2 PM2	332A	2623	WE322A
220PA	1022	LP2 L2 P220 PB1	332Pen	1401	CL33
220PT	1051	Pen220A PT240	337A	2624	WE337A
220RC	1312		338A	2625	
220SG	1018	Z21 215SG PM12 5B1	340A	1782	
220TH	1082	X24 TH2	343A		4009B 3Q/220E
220VS	2582	PM12M V522 W21	346A	2626	
220VSG	1028	PM12M	349A	2627	EL83 6CK6
225DU	1454		349B	2628	
228A	734	4228A 3Q/150E	350A	2629	
230XP	1023	P2 PM202 P220A	350D	621	38101 L801
231D	2584	6AN5	351A	2630	
238B		5555	351B	2630	
239	1771	39/44	352A	2631	
240B	2586	B21 PM2BA PD220	354A	2632	
240QP	1035	QP230 QP21	354V	1173	244V A30D AC/HL MH4
242A		ES85 4242A 3B/850A	357A	691	4357A 3C/351H
242B		4242A ES85 3B/850A	357B	32	3C24 GV12
242C	2587	4242A ES85 3B/850A	362A	2633	
244A	2588		367	2634	
244V	1038	354V MH4 HLA2	368A	710	
249A		2V/400A	371B	3511	
250TH	2589	RK63	375A	2636	
250TL		WL806	388A	2637	
256B	2592		393A	2638	
257A	2593		394A	2639	
258B	2594		400TDD	2521	6AH6
259A	2595		401A	967	E4103-B-4
262A	2597		401CAHA	389	
264A	2598		402Pen	1672	Pen36C
264C	2599		405BU	2640	
267B	2600	F267B	408A	2205	E4103-E-14 5A/164K
270A	30	4270A 3C/350E	408BU		DW2 506BU 7821 R1
271A	2601		408CAHA	2211	408CAHA
272	2957	5557 XG5-500	410LF	1152	L410
272A	2602		410PT	1167	PM24A
274A	2603	424A	415XP	1154	PM254
274B	684	5U4G	417A	2642	2K41
275A	2604		420T	2511	
276A		4242A	420XP	1040	PX25 D024
278A		4278A 4C/800E	428T	812	CE230 428T
279A	669	4279A	431U	1039	R3 IW4-500 MU14
282A	2605	4282B 4B/700A	436A		A2674
293A	3829		437A		3A/167M
296A		WL849	441U		R3 UU5 IW4/50C
300A	2608	4300A	442BU	1796	R2 DW4-340 UU5 U14
300B	2609	9300A	446	3725	GL446
302THA		TH2321	446A	932	1656
303	2610		446B	687	2C40
303A	2986		446C	2272	
304	1202		450TH	2572	
304TH	2611	HK304H WL535	451PT	1977	UL41 45A5 N142
304TL	3580		460BU	2644	R3 DW4-500 U14 UU5
305D		WL801A	464A	688	2C43
307A	2612	4307A	471A	3586	1B21A
310A	2613		484V	1678	HLA2 AC2/HL MH41
310B	1781		506BU	2645	DW2 U10 1821 R1 UU5

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
552	999	3C22	815	2663	QQV04-20
532	2647		816	724	
532A	2648	1B32	822	264	
541U		UL41	825	2665	C144 QV07-40
575A		ESU575 2V/510A	826	630	
576	3749		828	631	5B/700A
578	2967	8020 10CR	829A	3599	3E19
610XP	1154	PM254	829B	2666	QQV07-40
615	3506	HY615	830B	702	HY513 CB30B
616		KT66	832	1088	832A
625P	1208	PM256	832A	788	QQV04-15
644	670	HK645	833	635	TY4-350
648P1	746		833A	635	TY4-350 ES833 3C/402E
651		5552A 656	836	636	
652		5551A 657	837	637	RK44
653B	666	9004	838	638	HF130
657		5551A 652	841	906	1602
672		3V/390A	843	639	
673		ESU673 2V/511A	845	735	T100-1
676		3V/490A XG2-6400	845W	3646	
700A	689	4J42	846	2668	
700B	695	4J42	849	2669	
700C	696	4J42	849H	2670	
700D	699	4J42	851	2671	
701A	677	WE701A	852	2672	
702A	678	702B	857		DQ7
703A	679	368AS	857B	2673	DQ7
705A	3587	8021 2T/450E	859	2779	2B26
706A	3588		860	640	
707A	3589	K307	861	641	
707B	1768	2K28	863	2674	ESW872 2V/471A
708A	3590		864	2675	
709A	2652		865	2676	
710A	62	E1046	866	32	2V/400A GU12 3B28 AH201
713A	3593		866A	32	RG3-250A 3B28 AH201 GU12
714AY	2653		866JR	2679	2B26
715A	2654		868	2680	1P23 918 CMG32
715B	2655	P535/1E 715C	869		ESU111 2V/540
715C	598	4B601E P535/1E	869B	2723	DQ6 ESU111
717A	2594	GS1630	872	642	F353 4B32 AH217 2V/471A
719A	3956		872A	1449	DQ4 2V/471A
720C	3907		872AX		DGC5/5000GB
721A	3595		873		TQ4
722A	3596	CE302	874	643	3918
723A	720		875A	644	
723A/B	1795	KS9-20	876	645	
724A	2656		878	2683	
724B	1793		879	597	2X2
725A	722	JP9-250D	880	2685	5658
726A	676		884	647	
726B	3597		885	648	2B4
726C	3644		889	2686	ESW5000 3Q/198E
729A	539	1B23	889R-A	2687	ESA5000 3J198E
731A	850	EF95 6AK5	891R	2688	ESW891 3Q198E
732A	812	3B24	892R	904	BR175 ESA892 3J197E
800	2657	RK30	893R	2689	
801	621	38101 WE350D	901A	1587	ECR35 90EG4
801A	621	VE310	902A	2301	
802	622	GL802	902M	2244	
803	623	RK28A 38802	902P1	3600	902P1A
804	624	4052A 5B/600A	904V	2690	MH41 HLA2 AC/2HL
805	625	T100-1	905	736	
806	2658	GL806	906	737	3AP1
807	124	QV05-25 5B/250A QE06/50	906P1	602	3AP1
807W	3809	QV05-25 5B/250A	908A	1529	
808	626		913	2691	
809	2660	NU302 HY302	918	2692	1P23
810	627	WL810	919M	420	
811	628	GL811	927	405	55CG CMG34X
812	2661		929	2693	59 61DV3
813	26	QY2-100 C143 5C/100A	930	2694	GS1650
814	629	RK47	930B	702	HY51B

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
931	2695	1P21 27M1	1659	1769	2A6
931A	2696	27M1 1P21	1672		WL172
935	2697		1701		PL5557
946A	1521	E4412/M/9	1729	2717	
953	738		1754	3518	5948
954	1095	ZA2 4672	1805P1	832	5AP1
955	1039	HA2	1806P1	817	3EP1
956	649		1813P7	884	7BP7 ZP468
957	2700		1814P1	790	2AP1 1814P1
958	650		1821	1443	DW2 V10 UU5 R1
958A	2701		1851	599	GL1851
959	1794		1852	660	6AC7
965K	2230		1853	1873	6AB7
967	2957	5557 TQ2 XG5-500	1861	1039	IW4-500 MU14 R3
972	642	TQ4	1867		IW4-350 R2 MU14 R42 UU5
972A		DQ4	1868	3759	R2 UU4 IW4/350 MU12
973		TQ4 873	1876	2718	
991	651	NE16 CD2005	1877	1290	HVR2
994V	1037	154V	1881	3759	R2 UU4 IW4/350 MU12
1000UHF		WL1000T	1904		3V/390A
1005	2874		1907	3521	XH25-500
1043	1097	E4504/B/16	1908P1	1783	9JP1
1048		68530	1909A	2291	
1163	2775	68506	1924	2719	
1164		68508	1960	1792	5836
1201	2704	7E5	1971		WL207
1201A	2704	7E5	2000	1836	68506 1163
1203	2705		2000T	998	
1229	711	32E	2050	2565	EN32 20A2 4G/28ID
1231	2707		2051	1798	20A2
1232	303	EF22	2100A	2967	WL8020 RV12-100 8020
1252W	2464		2211BRA	439	22/11BXA
1257	5027	5559 XG1-2500	2218B	439	22/11BXA
1267	1992	Z300T	2269Y	2463	
1280		14C7	2273P		T938Y
1282	902	7W7	2501A3	602	906P1
1291	811	3B7	2505A5	740	5MP1
1294	2709	1R4 3B7	2511A5	741	5LP1
1295		WL632B 57 3V/390A	2529A5	1791	5JP1A
1299	815	3D6	2634		4074A
1378X	761	1B22	3017A		4017B
1500T	2711		3025	2722	
1547	3789	IW4 R3	3069		866A DCG4/1000G 2V/400A
1561	1064	DW4-500 U14 R3 UU5	3069A		4069A 5C/101A
1601A	1385	E4504/B/16	3069Q		T939Z
1601ABC	440		3069QMM		T939Z
1601E	440		3070		872A DCG5/5000GB 2V/471A
1603	652	6C6	3071	2723	869B
1608A	1391	E4504/E/16	3072		WL857B
1609	2712		3073Q		T939Y
1610	2713		3078		DCG9/20 6508
1611	653	6F6	3209	2725	09J
1612	654		3220K	954	20K
1613	655		3226D	2727	26D
1614	2714	QV06-20	3226J	2786	26J
1616	656		3229D	2728	29D
1619	723		3263DS	2731	63DS
1620	657	6J7GT	3530	405	55GG CMG34X
1622	658	6L6G	3572		866A DCG4/1000G 2V/400A
1625	659		3861B	2519	QEL150 4X150A QV1-150A 4H135M
1626	1755		3874A	26	QB2-250 813 QY2-100 5C/100A
1629	1756		3885		DCX4/1000
1630	2715		3900A		G500/1G
1637	1052	0M9 EL32	3901A		G1500/1G
1638	1054	EB34	3903A		G1800/1G
1639	1055	DL36 EBC33	3904A		G100/1G
1642	875	2C21 RK33	3945		845
1646A	966	E4504/M/16	3951	2733	
1652M	1530	6LY1	3982	2680	1P23
1655	2716	6SC7	4001AM		T4A/9AA
1656	932	446A/B	4001C		T4A/75AA
1658M	307	6LY1	4001F		T4A/15AB

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
4001N		T4A/15AD	4242A	25	ES85 UE311 3B/850A
4003A	2743	B1C/1C	4282		4B/700A
4004B	2329	B2B/2C	4304CB		3B/503B
4005N		T4A/15DA	4311B		311B
4006A	1600	CAT1 BW173 3Q/181E	4313C	75	313C G150/1A
4006AS		B1B/1EW	4316A	683	316A
4006B		B1B/2E	4317	1201	317
4007A		2W/541E	4328A	2619	328A 5A/136A
4008A	1601	A W223 CAR1 4222B 2W/450E	4328D	245	5A/136D 328D
4011A	1415		4357A	27	357A ES351 3C/357H
4012A	1445	4094A 3B/851A	4378	1453	
4013C	1605	3Q/120G	4407	1084	
4014A	1603	3Q/180E	4409	995	6AJ5
4015A	2735	3D/150G	4410	1087	
4017		866A	4412E		V1505
4017B	1446	2V/401C	4502	1086	
4018G	1733		4602	956	
4019A	249	3A/107A	4605	1085	
4019B	1655	AR11 425XD 3A/107B	4606	2764	
4020A	1653	AR12 3A/108A	4607	690	RK48A
4020B	1657	3A/108B	4608	1511	
4021A	1671	3A/109A	4671	1059	HA2 955 ES0111
4021B	1663	AR20 3A/1C9B	4672	1095	
4022AR	1664	3A/110A	4673	2765	
4022B	1659	3A/110B	4687	2766	
4030A	1447	4030D 3Q/293E	4690	2767	
4030D	1447	3Q/293E	4701A	677	701A
4033A	1220	3B/252B 61P	4702A	678	702A
4033AF	2743		4703A	679	703A
4033L	1688	3B/252B 61P	4705A	3587	705A
4040B	1657	3A/108B	4706A	3588	706A
4043C	1448	3B/351A	4707A	3589	707A
4045A	243	4A/137B	4708A	3590	708A
4046A	244	5A/128B	4713A	3593	713A
4047B	1600	CAT1 BW173 4006	4717A	3594	717A
4049A		E1197	4721A	3595	721A
4049C	1355	RG3-1250 GU18 2V/470C	4722A	3596	722A
4049D	5	AH221 RG4-1250 GU21	4726	676	726A
4049GD		3V/470A 3V/490E	5031		872A
4050AG	2745	C16GS/2G	5121	797	2D21
4052A	1081	5B/600A	5215A	1081	
4053	950		5221	1835	3B28
4053A	967		5517	3609	CK1013
4056A	1025	DET25	5544	2210	XR1-3200
4059A	1611	MR4	5545	2215	XR1-6400 5686 3G/502A 6807/G
4060A	1030	T250 ET30	5556	3640	405BU
4061A	1369	5B/100A	5557	2957	XG5-500
4062A	1568		5559	5027	XG1-2500 571 57 BT5
4064A	2746	DQ4A 872A 2V/471A	5586	3611	
4064B	1449	872A DQ4 2V/471A	5610	4058	M8080
4066A	1181	KT41 7A3 APP4B	5620		4004B
4069A	1372	RK28	5626	298	FA15
4074A	18	DET19 2C34 RK34	5628	2952	FA13
4074B	1573		5629	2662	
4077A	33	4077D 2V/490C	5632	5234	PL5632 C3J ZT1011 8063 XR1-1600A
4078A	1420	869B 2V/531E	5636	3928	EF730
4078GA	447		5641	473	EY70 SN954
4079A		2V/561E	5642	2241	DY70
4080A		2V/590E	5643	474	EN70
4080GA		3V/590E	5644	3987	
4081	2749		5647	3916	
4081A	1797	3Q/212E	5651	2573	QS1209 85A2
4094		3B/650A	5651WA	4048	M8098 QS1212
4096AB		C10SS/1B	<del>5654</del>	<del>4040</del>	<del>0AK5WA M8100</del>
4096AG	2794	C10SS/2G	5656	2970	
4121A		B8B/1A	5657	3958	
4121AA		B8B/2C	5663	3610	
4121AB		B8B/1C	5664	1765	3C31/C1B
4212E		3C/201A	5667	2687	889R
4220C		3Q/184E	5670	4013	
4222B		2W/540E	5672	2238	DL620
4242		3B/651A	5675	2971	

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
5676	2239	XFR3	5976	5900	KS7-85A TK61
5678	2254	DF60	6002	3902	QK221
5679	876	7A6	6005	4019	M8245 6AQ5W
5684		21B12	6007		DL67
5684/C3J/A	2753	6011	6008		DF67
5685/C3JA	2754	CV8287	6021	3986	ECC70
5686	3612		6024	3539	ATR387 TRW7
5687	2578		6027	3997	JP9-15 2J42A
5691	3705	6SL7	6029		CK573XA
5692	3942	6SN7 ECC33 B65	6031	5027	575559HG1-2500
5693	3699		6038	3628	1B35A
5696	3512	EN92	6052	2698	5896
5702	3895	5702WA	6053		5903
5704	2874	EA76 6489	6056		5907
5718	3930		6057	4004	M8137 ECC803S
5719	4008		6058	4025	QA2404 M8079 EAA901S
5725	4011	M8196	6059	4006	6BR7
5726	4007	EAA901S 6AL5W M8212	6060	4024	M8162 ECC801S
5727	4018	M8104	6061	4043	6BW6 M8162
5749	4009	6BA6W	6062	4039	M8091 S763
5750	4012	6BE6W 6BE6	6063	4005	6X4WA QA2407 M8096
5751	4017	ECC 803S 8057	6064	4014	S6F12 QA2403 M8083
5755	3755		6065	4015	M8161 QA2400
5762		BTL2-1 TY6-5000B YD1120	6067	4003	M8136 ECC802S 12AU7WA
5763	2129	QV03-12 6062	6073	2903	OA2WA STU150/30 M8223
5771		BW165	6074	4028	OB2WA STU108/30 M8224
5783	3933	85A3 M8190	6075		KPW5/3500 CW1100 QY5-3000W
5783WA	4066	M8190	6076	5129	KS7-85A QB15/3500 CR1100 QY5-3000A
5784	3896	ECC70	6077		TBW12/100 TY12-50
5787	3897	5787WA	6079	3522	QY5-500 RS687
5796	3706	XR1-1600	6080	2984	11D12 ECC230 33B/160D
5799	2678		6080WA	5008	
5800	2730	ME1402	6083		PE1/103
5814	4016	5814WA ECC802S	6084	2729	E80F
5814WA	4032	5814	6085	5989	E80CC
5823	5122	Z900T	6088	2699	
5829	3898	E180F	6095	4019	6AQ5W M8245 6005
5840	3929	EF732 5901	6096	4010	5654 6AK5W 6096 M8100
5842	3789	1547 417A	6097	4007	M8212 5726 6097 6AL5W EAA901S
5846	2859	WL5846	6100	4022	6C4WA M8080
5847	3905		6101	4031	6J6WA M8081
5852	3943		6106	2996	HL41DD
5855	5957	XR1-12A	6111	3961	
5861	273	TD03-10G DET22G	6117	3906	
5866	1924	TB2.5-300 TY2-125	6125	4022	QA2401 6135
5867	1350	TB-3750 TY3-250	6130	3629	3C45 XH3-045
5868	1351	TB4-1250 TY4-500 RS631	6131	3632	
5870		DCG12/30	6132	4055	6CH6
5876	2972		6135	4022	M8080 6C4WA QA2401
5886	495	ME1401 DF703	6137	1993	6SS7
5894	2797	QQV06-40A 5894A QQE06-40	6146	3523	QV06-20 QE03/40
5894A	424	QQV06-40A 5894 QZ04-50	6155	2130	QY3-125 RS 685
5895	1835	QQC04-15 QZ04-15	6156	2131	QY4-250 RS686
5896	2698	6052	6157	2218	R17
5899	475/7	5900	6158	4068	13D3
5900		5899	6159		QV06-20C QE05/40H
5901	3929	5840	6161	3901	5580 5946
5902	4029	EL71	6174		CK1027
5903		6053	6180	278	6SN7 QA2408
5907		6056	6187	4011	M8196 5725 6AS6W
5915		EH900	6189	4003	12AU7WA M8136 ECC802S
5920	5214	E90CC	6198		P810
5923		TBW6/6000 TY6-5000W	6199		150AVP 6291
5924		TBL6/6000 TY6-5000A	6201	3508	ECC801S M8162 12AT7WA
5932	3899		6202	4005	QA2407 6063 6203
5933	3517	5B/254A	6203	5009	QA2407 6063 6202
5939	3545	WL5939	6205	2432	
5948	3518	1754	6218	5724	E80T
5949	3521	XH25-500	6227		E80L
5962	2383	BR191	6252	2799	QQV03-20A TT20 55B/200A
5963	3900		6267	2901	EF86 Z729 6F22
5965	5843		6268	1787	4C35 XH8-100

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
6279	2520	5C22 XH16-200	7700	585	6C6
6291		150AVP 6199 XP1060	7721		5A/185K D3A
6305		2T/270K R10 HR1	7971		S11E12 L5B/280D
6308	4054	M8142	7972		13E1 5B/900A
6326		P813	7973		S2P20 L5A/220K
6354	2225	150B2 QS1200	7974		16P12 3R/153S
6360	2798	QQV03-10 11E13 TT24 55B/100A	8001	824	
6370	5106	E1T	8003	2768	T100-1
6373	2105	DL70	8008		DCG5/5000GS ESU8000
6374	2235	EY84 R18	8008AX		DCG5/5000GS
6375	2275	DC70	8011	62	E1046
6391	476	EF74	8012	662	GL8012
6410	3903	QK338	8013A	716	8013
6488	446	EF73	8016	541	1B3GT R6158A
6489	469	EA76	8019		4304CB
6516	4063	M8082	8020	2967	RY12-100
6538	2236	Z800U	8021	3587	378A
6539	2255	X801U	8022	934	27
6574	2253	EN32 21A1 4G3200	8023	933	4C30 15A
6617		TBW12/25 TY12-25W	8025	663	3E29
6618		TBL12/25 TY12-25A	8025A	3915	
6626	4020	M8223	8026	92	4C27
6627	4028	OB2WA M8224	8078		14D12 3C/500E
6661		E90F	9001	1757	
6662		E99F	9002	664	GL9002
6686		E81L	9003	665	
6687		E91H EH900S	9004	666	653B
6688	3998	E180F 5A/170K	9005	667	GL9005
6688WA		E186F	9006	2769	100R WL578
6689		E83F	9901		5867
6693		DCG6/18 RG4-3000 2V/520A	9903		5894 B1135
6700	5277	ET51	10667F		P813
6778	468	EC70	13077	2770	
6779	2434	Z803U	18042		6086
6807		3G/502A XR1-6400	18046		IL861
6844A		GN-4A	38116		1163
6866		E702	38166		DCG4/1000G 866A 2V/400A
6870	5121		38217	2957	5557 XG5-500
6922	2492	E88CC	68503	2773	68510
6923	5140	EA52	68504	2774	
6939	2466	QQE02-5 QQV02-6 TT23	68506	2775	1163
6960		QBW7/800 TY7-6000W	68508		1164
6961	5239	QBL7/800 TY7-6000A	68510	2776	
6972		JP9-75	68530/U600	3756	1048
6977	6094	DM160	178148		1163 68506 38116
7001	4067	M8167	180238		1164 68508
7004		TBL2/300 TD2-300A	189048	2777	1163
7007		4JC/201E	189049		1163 68506
7028		JP9-2.5	217283		1164 180238 68508
7034	2519	QV1-150A 4X-150A	289414		1163 189049 38116
7035	3991	4X150D QV1-150D	289416		1163 289414 189049 38116
7036		5915A EH900S	766766		1164 217283 180238 68508
7062	5766	E180CC	859483	2779	4B36 20X672
7090		JP2-0.2	A11B		UU5 R2 1W4-350
7091		JP2-2.5A	A11C		1W4-500 R3 UU5
7092		TB5/2500 TY6-800 15D12	A11D		1W4-350 R2 UU5
7118		E181CC	A20B		2D4A D41 V914
7119	5766	E182CC	A23A		TDD4 11A1 MHD4 AC/HLDD
7125		EBF89	A27D		Pen4DD
7136		DCG6/18GB	A30B	2806	AC/2HL 484V MH41
7203		4CX 250B	A30D		354V MH4 HLA2 AC/HL
7204		4CX 250F	A36A	1424	20A1 AC/TH1 TH4 X41
7292		JP2-2.5W	A36B		TH4B 20A1 X41 AC/TH1
7432	4501	EF72	A36C		TH4B AC/TH1
7433	4502	EF73	A39A	1412	TV4
7434	4503	EF731	A40	2800	HA1
7435	4504	EA76	A40M	1165	AC/SGVM
7436	4505	EF71	A40/N3	2801	
7437	4507	S1966	A41	1175	ZA1 AP4
7438	4508	EF70	A50A		SP4 8A1 SPT4A AC/S2Pen
7475	1070	GD100B QS92/10	A50B		SP4B M5/PenB
7580	2487	4X250B	A50M		9A1 VP4 VMP4G AC/VP1

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
A50N	1172	9A1 VP4 AC/VP1	AC/SG	2822	8A1 MSP4 S4VB
A50P		VP4B W42 AC/VP2	AC/SG	1190	E1046
A70B		Pen4VA 7A2 AC/Pen N40	AC/SGVM	1165	AS5124 9A1
A70C		PenA4 7A3 AC2/Pen KT41	ACSH	1677	S4VB MS4B SP4 SPT4A
A70D		PenA4 KT41 N41 7A3	AC/SL		SP4 SPT4A
A70E		PenB4 AC/4 Pen	AC/SP1	2820	AC/S2Pen
A80A		FC4 15A2 MX40	AC/SP3	2923	TSP4
A80M	3576	15A2 FC4 MX20 X42	AC/SP3RH	1430	
A207	2160	ESU77 25/460C	AC/S1VM	1165	VP T4
A232	3587	705A	AC/TP	1718	TP4
A239		3B24W	ACT6	2825	
A373	1184		ACT9	28	BR152B 3J/121E
A800	412		ACT10	2827	5762 YD1120 TY6-5000B
A819	1698		ACT14		BR140
A901	1722		ACT16	1431	
A915	1462		ACT17	225	
A915Met	2803		ACT19	379	
A915AMet	2804		ACT22	257	
A924	2805		ACT23	288	
A1065M	1343		ACT24	240	
A1320	51	Y65	ACT25	436	
A1714	408		ACT28	2163	
A1820	409		ACT29	6057	BR1138
A1834	2523	RV12-100 6080 11D12 33B/160D	ACT30	2383	5762
A2087	2171		AC/TH1	2830	TH4B X41 20A1
A2134	2179	E2134	AC/VH	3788	VP4
A2272	2318		AC/VP	1169	ME1401 5802
A2293	4079	11A1 3B/152K	AC/VP1	518	VP4A/5 9A1
A2327	2204	TD03-10F	AC/VP2	2832	VP4B MVSPenB W42
A2426	4082		AC/VPB	2832	VP4B
A2521	2453	6CR4	AC/VS	1165	
A2688	4081		AC/Y	1174	KT42 7A2
A4051	124	QE06-50 QV05-25 807	AC/YY	1326	APP4E(B4)
A4229	824	HK257A	AC/Z	1181	PenA4 PT4(F)
A4535		11D12	AD/P4	1198	ACP4
AA61	3884	ECC40	AF2	1169	9A1 UP4 VMP4G
ABC1		DDT2A	AF3	2833	
ABC91	452	DH77 6AV6 EBC91	AF22-10		T938Z 2269P
AC042	1732	PA20	AF31-10		T939Z 3069Q
AC044	1168	P12/250 LP4 PP3/250 PX4	AF350	1252	4212E 14D13 3C/270K
AC054	1168	PP3/250 PX4	AFH202	12	E1191
AC064	1168	PP3/250 PX4	AFX203	2868	C1A
AC084	1168	PP3/250 PX4	AFX212	1949	EN93 6D4
AC2/HL	2806	MH41 904V HLA2 484V	AFX234	5023	EN93 6D4
AC2/HLMet	2807	HLA2 904V	AG3B28		3B28
AC2/Pen	2808	PenA4 7A3 KT41 42MP/Pen	AG8	1057	EK32
AC2PenDD	519	PT4D DN41	AG5209	449	85A2 0G3
AC4/Pen	1326	Pen4B	AG5210	1833	108C1 0B2
AC5/Pen	2809	PT10 N41	AG5211	1832	0A2 150C2
AC5/PenDD	1196		AG806A	32	DCG4/1000G RG3-250A GU12
AC6/Pen	1189		AG872A	642	DCG5/5000GB
AC7	1683	MKT4	AG8008		DCG5/5000GS
AC54	5219	QY5-3000A 6076	AGR9950		5869
AC104	1161	104V PP3/250	AGR9951		5870 DCG12/30
AC/DD	1170	SD41	AH200	1628	
AC/DDT	2813	TDD4	AH201	32	ESU866 RG3-250A 866A
AC/HL	2811	MH4 41MHL HLA2 244V	AH205	2673	857B
AC/HLMet	2812	354V	AH211A	532	GU24
AC/HL/DD	2813	TDD4 DDT4 HD4 11A1	AH213	2723	869B
AC/HP	1282	SP4	AH217	642	DCG5/5000GB 872A 2V/471A
AC/L	1732	TT4 LF4 41FP	AH221	5	RG4-1250 4049D GU21 2V/500C
ACP	2815	PA1 4MXP 054 TT4	AH238	1629	RG3-1250 GU18 2V/474C
AC/P	1179	ML4 41FP TT4 104V	AHC	1039	R3 UU5 IW4/500 MU14
AC/P1	1689	PA1 O54V	AK1	3576	15A2 FC4 MX40 X42
AC/P4	207		AL1	159	
AC/Pen	1174	7A2 Pen4VA MKT4 MP/Pen	AL22-10	5300	2273P 9RP33 T938Y T956Y
ACPT	2818		AL31-10		T939Y 3073Q
ACPT8	2818		AL60	9	
AC/Q	1326	B4 Pen428	AN1	1128	ME1502 GT1C
AC/S	2819		AP4	175	XSG1.5
AC/S2	1677	SP4 MS4B SPT4A	APP4A	1683	7A2 AC/Pen N40 KT42
AC/S2Pen	1282	HP4101/7 MS/Pen 8A1 AC5G	APP4B	1181	7A3 PenA4 AC2Pen KT41

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
APP4C	1684		B142	1927	ES833 3C/402E
APP4E		PenB4	B152	455	12AT7 B309 ECC81
APP4G	2836		B217	1021	HLB1 D210
APV4	1039	1W4-350 R3 UU5 MU12	B228	1673	PM2HL
APV4100		1561 U12/14 DW4/500	B230	1032	PD220
AR63	3710		B240	1032	PM2B
AR300	2839	4212E 3C/270A	B262	1018	Z21 S6215 S23
AS4120	1677	SP4A MS4B AC/SG	B309	455	ECC81 B152 12AT7
ASG04A		BL1267 Z300T	B319	5192	PCC84 7AN7 30L1
ASG5017		PL5557 TQ2	B329	491	ECC82 12AU7
ASG5023		PL3C23	B339	492	12AX7 ECC83 7025 6L13
ASG5025		PL3C23	B719		ECC85 6AQ8 6L14 6L12
ASG5121	789	PL2D21 EN91 2D21 4G/280K	B1109	2736	3C24
ASG6011		PL5684 C3JA	B1135	8479	5867 9901 TY4-400 RS630
AT4	1171	HA1 A40	B2048		X2818
ATL1-1	2245	3J/160E	B2049		X2918
ATL2-1	2905	3J/170E	BA9-20	2393	7635 N1010
AW36-48		T935W	BD78	2125	
AW43-80		17BTP4	BF61	3889	EL41 6CK5
AW53-80		21CLP4	BF62	3890	EL42
AX4/125A		6155 QB3/300	BK24	2124	5552A
AX105		PL105	BK34		5553B
AX224	1835	DCX4/1000 3B28 GXU1 RR3-250 2G/402A	BK42		5551A
AX228	2399	2G/473C	BK44	1742	5554
AX230	2518	DCX4/5000 4B32 GXU2 RR3-1250 2G/472B	BK46		5555
AX9900	1924	5866 TB25/300 T350-1 TY2-125	BL63	1102	
AX9902	1351	5868 TB4/1250 TY4-500	BLC/1C	433	
AX9903	2797	5894 QQE06-40 QQV06-40A TT25	BOL014	984	S2A
AX9904	3926	5923 TBW6/6000 TY6/5000W	BPM04		6AQ5 EL90 N727
AX9904R		5924 TBL/6000 TY6/5000A	BR1	692	OZ4
AX9905	1838	5895 QQC04/15 QQZ04-15	BR29	2687	ML5667 889
AX9906		6077 TBW12/100 TY12-50W	BR129	2687	ESA5000
AX9906R		6078 TBL12/100 TY12-50A	BR152	28	ACT9
AX9907		6075 QBW5/3500 QY5-3000W	BR153	2159	ACT14
AX9907R	5219	6076 QBL5/3500 QY5-3000A ACS4	BR161	2322	
AX9908	3522	6079 QB5/1750 QY5-500	BR175	904	ESA892
AX9909		6083 PE1/100	BR179	2323	
AX9910	2799	6252 QQE03/20 QQV03 -20A TT20	BR191	383	
AX9911	1787	6268 4C35 XH8-100	BR191B	5289	5762 TY6-5000B YD1120
AX9912	2520	6269 5C22 XH16-200	BR1129		3J/162J
AZ1	2860	A231	BR1130		5736
AZ2	2861		BR1138		3J/122E
AZ31	2862	U143	BR1160	8730	TY6 5000B
AZ32	2861		BS4	189	
AZ41	3892		BS4A	1859	
B1B/1E	1600	4006A	BS5	233	
B1B/1EW		4006AS	BS48	460	
B1B/2E		4006B	BS52	1841	
B1C/1C	2734	4003A 5A	BS52	1841	
B1C/1E	433		BS60	527	DA60
B2A	2565	2050	BS62	1858	
B2B/1C	2743	4004A	BS64	1743	
B2B/2C	2329	4004B	BS82	463	
B4B/1C	536	4120/AA	BS84	462	
B6	2140		BS92	461	
B6E	2141		BS100	1219	DA100
B8B/1A		4121A	BS1100		ES1102
B8B/1C		4121AB	BT5	5027	5559 XG1-2500 57 3V/390A
B8B/2C		4121AA	BT9	1145	
B12	494		BT9A	1146	
B12E	2142		BT9B	13	
B21	2864	240B PM2BA PD220A	BT19	1144	XG2-500
B24	2143		BT35	1147	21N13
B24E	2144		BT45	22	
B30	2865		BT69		6786 DCG7/100B XG15-12
B36	925	12SN7GT	BT75	489	
B63	1867	6A6	BT79	372	3C45 FX227
E65	278	6SN7GT	BT83	1120	5622 XH16-3200
E109		UCC85 10L14	BT91	2210	5544 XR1-3200
			BTR32	458	
			BTR34	459	
			BU100/6	2867	
			BW	1600	CAT1 4006A

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
BW129	2686	ESW5000 3Q/198E	C960		5820
BW140	2871	CAT6	C962		7294
BW153	2872	CAT9	C1108	2130	6155 QY3-125 RS685
BW173	1600	3Q/181E	C1111	427	5D21 7156
BW175		ESW892	C1112	2131	6156 QY4-250 RS686
C1A	2868	AFX203	C1123	3543	4D32
C1B	1765	5664	C1133	2416	4PR60
C1C	1400		C7501	2869	3JP7
C1K	2790		CAA322	1904	
C3J	5234	5632 8063 ZT1011 XR1-1600A	CAR1	1601	4222B AW223
C3JA	5234	5684 8063 XR1-1600A 2/B12	CAR4	1602	
C6A	714		CAT1	1600	4006A BW173
C6SS/1B		VLS492AB	CAT2	1606	
C6SS/1G	1527	VLS492AG	CAT3		BW173
C9A		CRM92	CAT6	2871	TX12-12W BW140
C10B	764	UR1C V20 1D5 BTY36	CAT9	2872	BW153
C10SS/1B		4096AB	CAT17	533	
C10/SS/2G	2794		CAT20C	421	BW187
C12/1		MW31-74	CAT29		BW1139
C12A		CRM121	CB215	1032	PD220 PM2B
C12B	2315		CB220	1696	PD220A PM2BA B21
C12FM		MW31-74	CBC1		TDD13
C12R	429	12AEP26	CBL6		CBL1
C14/3A		AW36-20	CBL31	1463	
C14HM	3535		CC2		HL13 4D1
C14LM/1		T935W	CC3D	2870	
C16GS/2G	2745	4050AG	CC3L	2266	
C17-1A		MW43-69	CC81E		6201
C17-2A		MW43-69	CC82E		6067
C17-4A		MW43-80	CCA	2492	E88CC 6922
C17-5A		AW43-80	CCE305		3V/340B
C17-7A		AW43-88	CE1		CMG32
C17AA		AW43-88 CME1706	CE1C	2692	918
C19-AK		AW47-90	CE1D	2680	1P23
C19-7A		AW47-90	CE1E		918
C19-10A		AW47-91	CE2	1764	1P30
C19-10AP		A47-13W	CE3		1P31
C20C		10D1 2D13C	CE4		1P36
C21AA		AW53-88	CE5		1P35
C21-1A		MW53-80	CE11V		917
C21-7A		AW53-88	CE20	1474	CE25 NU20
C21KM		MW53-80	CE21		920
C21NM		MW53-20	CE23		923
C23AK		AW59-90	CE25	405	1P32 927 CMG34X
C23B	3503	11D3 HLDD1320 TDD13C	CE26		1P33
C23-7A		AW59-90	CE29		1P39 929
C23-10A		AW59-91	CE31V		919
C27D		Pen40DD	CE34		934
C30B		HL13C 4D1 HL1320	CE59		5581
C36-24		MW36-24	CE72	709	72R 3B24
C36A		TH21C TH2321 202CTH	CE91		1P37
C36B		TH2321 TH30C	CE225		1163
C36C		TH2321 TH30C	CE226		1163
C39A	2942	EM1	CE230	819	PL33 N16
C50B		SP13C 8D2 BTY67	CE235		1164
C50N		9D2 VP1322, 13VPA	CE309	2957	PL5557 TQ2 XG5-500
C70D		7D6 Pen383 Pen 36C	CE311		PL3C23 TQ1/2
C70E	1672	7D6 Pen3520 Pen36C	CE866		DCG4/1000G
C80B		FC13C 15D1	CE872A		DCG5/5000GB
C143	26	813 QZ2-100 5C/100A	CE927		3546PW/02
C144	2666	QQV07-40 829B	CF1		SP13 8D2
C178A	2797	5894 QQV06-40A TT25	CF2		VP13A
C180	788	832A QQV04-15	CF7		SP13 8D2
C200	2988	HV18 NU200 3C/150A	CF61		ECH41
C203A	2986	203A HD203A	CF141		UCH41
C243N	1118	KT2 PT2 22A	CG1-C	425	0A74
C833		833A	CG1-E	425	CEX44
C866		DCG4/100CG	CG4E		2X105G GD5
C866C		DCG4/1000G	CG14	496	
C872		DCG5/5000G	CK1		FC13
C932		P810	CK502AX	385	DL71 2E35
C933		7038	CK505AX	443	PF70

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
CK506AX	387	DL72	DAC1	2887	
CK512AX	2107	DF66	DAC32	1818	1H5GT HD14
CK522AX	2699	6088	DAF70	2104	
CK523AX	2106	DL66	DAF91	784	1FD9 1S5 ZD17
CK542DX		DL650	DAF92	3912	1U5
CK546DX		DL651	DAF96	9024	1AH5 1FD1 ZD25
CK556AX	2239	5676	DAG1	2	
CK549DX		DF651	DB7-36		3WP11
CK707	2848		DB13/34		5ADP11
CK1003	517	0Z4A	DB16-22		7AHP11
CK1005	2874	1005	DC2P	1735	
CK1027		6174	DC51	1	
CK5672	2238	DL620	DC70	2275	6375
CK5678	2254	DF60	DC80		1E3
CK5704	2847	5704	DCC90	808	3A5
CK5726		5726	DCF60		1V6
CK5886		DF703	DCG4/1000ED	1625	DQ2A RG3-250 GU12A
CL4	2875	Pen26	DCG4/1000G	32	DQ2 RG3-250A 866A GU12
CL33	1401	332Pen	DCG5-5000GB	642	872A DQ4 2V/471A
CMG8	1432	GS26	DCG6/18		2V/520A
CMG22	1473	52CG	DCG9/20		DQ6
CMG25	242	5566 927	DCX4-1000	1835	3B28 DX2 RR3-250 2G/402A GXU
CMG25	250	55CG	DCX4-5000	2518	4B32 RR3-1250 2G/472B GXU2
CMG25	1472		DD4	1170	2D4A V914
CR176	2324		DD4D		2D4B
CR1100	5219	6076 QBL5/3500 QY5-3000A	DD6	140	EB91 6AL5 D77 D152 6D2 6AL5
CR1101		6181	DD6G	140	6AL5 6D2 EB91 D77 D152
CRM91		C9A	DD13	1300	10D1 2D13C
CRM92		C9A	DD41	1403	
CRM121		C12A	DD465		2D4
CRT4/1		2880	DD260	2889	
CRT5/1	487		DDA1		2D4A
CTR139		872R	DDA41	795	V914 2D4A D41
CS2-A	103		DDL4	1691	2D4A D41 V914 DDA41
CS2-C	1907		DDL13	1695	DH30
CS3-A	253		DDPP4BM	519	27D Pen4DD DN41 AC/2
CS3-B	1844		DDPP4BS		ABL1
CS4B	2258		DDPP4M		Pen4DD
CT1-500	1144	3V/340B XG2-500	DDPP6BS		EBL1
CT1/2500		PL5559 57 3V/390A	DDPP6S		EBL1
CWS24A	1968		DDPP39		PenDD-4020
CX25	1766		DDPP39S		CBL1
CX1113	2851	3D22	DDR2	173	EF55
CX1119	7384		DDR3	135	EY91
CXT1	2389		DDR7	136	6AM5 EL91 N77
CXT2	2400		DDT	2813	H4D NA2 11A1 AC/HLDD
CY1		G2080 UR1 CY2	DDT	2890	TDD4 H4D
CY1C		UR1C V20 1D5 U4020	DDT2		TDD2A H2D
CY3		UR3	DDT2A		HD21
CY31	1402	0M1 U201	DDT2B	1044	HL21/DD TDD2 HD23
D1	1078	T4D	DDT4	2813	TDD4 ACHLDD MHD4 11A1/2
D2	2778	2J21	DDT4S		ABC1
D2M9	283	6AL5 6D2 EB92 D77	DDT6S	1428	EBC3
D3A		5A/185K	DDT13	3503	11D3 HLDD1320 TDD13C
D4	1037	354V AC/HL MH4 HLA2	DDT13S		2D13A
D41	1187	2D4A DDL4 V914	DDT220		TDD2A H2D
D42	557		DDT527	6136	
D61	1092	EA50	DDX52	2232	
D63	554	6H6G EB34	DE5	2891	
D77	140	EB91 6AL5 D152 6D2	DEQ	1156	
D143		12	DER	1642	
D152	283	EB91 6AL5 6D2 D77	DET1SW	2895	
D210	1021	LK31	DET3	1034	
D400	1170	SD4A	DET5	1223	
D418	1686		DET5B	2892	
DA	1109	4D1 HL1320 HL13C	DET6	1620	4094A
DA30	563	D026 440XP V505 PX24A	DET9	2899	
DA41	1076	TZ40	DET10	2900	
DA42	2394	1D13 ES1101 3B/402A	DET12	1288	4304CB 3B/5048
DA60	527		DET16	1363	B150
DA90	753	1A3 1FD13	DET18	419	35T
DA100	1219	ES1102 MZ-1-100 3C/100E	DET19	18	RK34 2C34 4074A 33A/138A

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
DET20	6	E1148	DL63	2912	6R7 DH147
DET22	273	TD03-10	DL64	2331	
DET23	354	TD03-5	DL66	2106	CK523AX
DET24	397	TD04-20	DL68	2259	
DET25	1025		DL69	2361	
DET27R		3C/270E	DL70	2105	6373
DET29	2397		DL71	385	CK502AX
DF1	2907		DL72	387	CK508AX
DF33	1823	1N5GT Z14	DL73	2299	
DF60	2254	5678	DL74M		12Q7GT DH76
DF61	2371	6611	DL75	2102	
DF62	2237	1AD4	DL82		7B6 DH81
DF63	2433		DL91	783	1S4
DF64	2260	02DF	DL92	2370	3S4 1P10 N17
DF66	2107	CK12AX	DL93	2390	3A4
DF67		6008	DL94	2983	3B4 1P11 N19 3V4
DF70	433	BIC/1E CK505AX	DL95	818	N18 3Q4
DF72	2101		DL96	2361	3C4 1P1
DF73	2103		DL98	2240	3B4
DF91	785	1T4 1F3 W17	DL145		10LD11
DF92	1758	1L4 1F2	DL620	2238	XFR3 5672
DF96	9025	1AJ4 1F1 W25	DL650		CK542DX
DF97		1AN5	DLS	190	Z530331
DF650		CK549DX	DLS10	979	Z530331 S60/1B
DF904		1U4	DLS15		S61/1B
DG4-1	5131		DLS16		S62/1D
DG7-5	2175	3ALP1	DLS19	342	Z530333 VLS631 S102/3K
DG7-32	2431	3AMP1 5WP1	DLS21		S62/3D
DG7-36	3946	3WP1	DLS23		S75/3D
DG13-2	2191	5CP1A	DLS24		S55B/1K
DG13-34	5035	5ADP1	DM6	2146	
DG16-22	2352	7AHP1	DM70	2980	1M3 Y25 1M1
DG736		8A1	DM71		1M1 1M3
DGP	1141	GDT4C	DM160	6094	6977
DH	1665		DN41	519	AC/2PenDD
DH3-91	2302	1CP31	DN143		EBL21
DH7-91	6095	AFP31	DO24	1040	PX25 PP5/400
DH10-94		4EP1	DO26	1178	440XP D026 PX25
DH13-97	5168	5BKP31	DO30	1178	DA30 PA40
DH30	1695	DDL13 11D5	DO42		Pen4DD
DH42		TDD4 AC/HLDD	DO60	1206	BS60 M205-60
DH63	587	6Q7G	DP7-5	5171	3ALP7
DH68M	587	6Q7GT	DP7-91		3APF7
DH73		6T7 6Q6	DP13-34	5125	3ADP7 5ADP7
DH73M	2909		DP16-22	2498	3AHP7 7AHP7
DH76		12Q7GT DL74M	DP61	850	EF95 6AK5 PM05
DH77	452	EBC90 6AT6	DP495/6		Pen4DD
DH81	882	7B6	DQ5		ESU575
DH109		UABC80 10LD12	DQ2A	1625	DCG4/1000ED 3B28 AW201 RG3/250
DH118		DH142 UBC41 14L7			GU12A
DH119		10LD13	DQ4	642	DCG5/5000GB 872A ZV/471A
DH142		UBC41 14L7 10LD3 DH118	DQ4A	3670	DCG5/5000EG RG4-1000 4064A 2V/471C
DH147	1055	EBC33 6R7G DL63	DQ6		DCG9/20 6508 869B
DH149	887	7C6	DQ7		AN205
DH150	3882	EBC41 6CV7 6LD3 62DDT	DQP	1121	T41
DH719		EABC80 6AK8 6T8A 6LD12	DQZ		DCG4/1000G
DH791		3AFP1	DS	2979	H30
DH817		DH150	DR715C		P535/1E 4B/603E 4B/601E
DK1	2910		DR813		813 5C/100A
DK2		1AC6 1C2	DR869B		ESU111
DK20		GC10D	DS103	94	
DK32	1802	1A7 X14	DT70	798	2E22
DK91	782	1R5 1C1 X17	DT436		TDD4 AC/HLDD
DK92	5172	1AC6 1C2 X18	DV32	88	3A/148J
DK96	9026	1AB6 1C3 X25	DV34	127	3B/401J
DK97		1C3 X25 1AB6	DV40B	228	V246A/1K
DL	1661		DV55	230	V230C/1D
DL2	2911		DV56	234	V230A/1K
DL29		3D6	DW2	1443	RV120/350 506BU 1821 R1 UU5
DL33	819	3Q5GT 3Q5 NI5	DW3		DW4-350 R2 R4 U9
DL35	1805	1C5 N14	DW4		DW4-500 R3 R43 U14 1561
DL36	1055	1Q5GT	DW4/350	1796	RV120/350 R1 R4 R2 UU5

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
DW4/500	1064	RV120/500 U14 1561	E1229	4	
DX2	1835	3B28 ZG/402A GXU1	E1231	52	
DX144		EC56	E1232	92	4C27
DX145		EC57	E1235	29	
DY30		1B3GT U4-1	E1236	69	
DY70	2241	5642 SN956B	E1242	1510	QV04-7 E1331
DY80		1X2A-B R19	E1248	8	E1356
DY86		1S2	E1255	40	
DY87		1S2A	E1267	41	
E1C	1059	HA2 955	E1271	57	
E1F	1095	ZA2 954	E1273	58	
E1T	5106	6370	E1287	23	
E2D111		AL4	E1289	1148	AFH202
E2F	649	956	E1297	5	AH221 GU21
E55L	5808		E1320	51	Y65
E80CC	5989	6085	E1323	63	
E80F	2729	6084	E1325	56	
E80L		6227	E1331	1510	QV04-7 E1242
E80T	5724	6218	E1335	61	
E81CC	4024	6201 ECC801S 12AT7WA M8162	E1337	78	
E81L		6686	E1342	64	
E82CC		6189 ECC802S	E1355	1433	EC31
E83F		6689	E1356	8	1248
E88C		6922 8255	E1359	76	
E88CC	2492	6922 ECC803S	E1362	126	
E90CC	5214	5920	E1365	114	
E90F		6BH6	TYPE	CV No.	EQUIVALENTS
E91AA	4007	5726 EAA901S 6ALSW	E1371	105	
E91H	8697	6687 EH900S	E1373	99	
E91N	4018	PL5727 2D21W M8204	E1379	79	
E95F	4010	5654 6AK5W 6096 M8100	E1411	153	
E99F		6662 6BJ6	E1415	115	
E125A		6155 QB3/300	E1416	281	X61M
E130L		7534	E1417	117	
E132	1643		E1419	154	TD04-20
E133	1645		E1423	406	
E180CC	8431	7062	E1429	79	
E180F	3998	5A/170K 6688	E1436	188	7475
E181CC		7118	E1453	1646	
E182CC	5766	7119	E1457	257	ACT22
E186F	3998	6688WA	E1458	178	XD60
E188CC	5354	7308 CV4110 CV4111	E1459	174	
E250	2181	6156 QB35/750 QY4-250	E1465	236	
E255		PM202	E1468	172	
E406N	1168	PP3/250 PX4 AC044	E1474	78	
E446	1282	SP4	E1481	192	
E707		LK7110	E1485	807	3A4 DL93 3V4
E810F	5809	7788	E1487	208	
E900		TB4/100	E1494	191	
E960	1058	VT58A	E1495	259	
E960T	1098	E1235	E1496	240	ACT24
E1024	1114	A373	E1497	215	
E1046	1090	8011	E1511	355	
E1097	1111	U27 R11 V1907	E1516	221	TTR31
E1132	1111	V1907 U27	E1524	338	
E1143	1577	KT44	E1527	290	
E1148	6	DET20	E1531	214	
E1155	44		E1532	1644	
E1161	1253		E1541	1716	
E1164	1091	EF50	E1563	1863	5Z46 R52
E1180	1077	EM31	E1591	181	ECC32
E1189	1255		E1599	272	KR6/4
E1190	55		E1606	278	B65
E1191	12	AFH202	E1633	456	
E1192	1501	TT11	E1647	288	ACT23
E1197		4049A	E1648	135	EY91
E1198	38		E1659	543	12SK7
E1199	1405		E1706	437	KT67
E1200		TB3/1000G	E1714	408	A1714
E1209	7		E1789	397	DET24
E1226	15		E1860	240	ACT24
E1228	2		E1935	415	TT15

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
E1938	493	6X4 U78	ECC32	181	6SN7GT 13D2
E1954	25	ES85 4242A 3B/850A	ECC33	2821	6SN7
E1955	797	2D21 EN91 4G/280K PL2D21	ECC35	569	
E1956	261	2T/270K	ECC40	3884	
E1959	495	ME1401 VX32	ECC81	455	12A T7 B152 B309
E1996	436	ACT25	ECC82	491	12A U7 B329
E2004	2115	1B3GT	ECC83	492	12AX7 6U3 7025 B339
E2016	1758	EF92 6CQ6 9D6 W77	ECC84	5281	6CW7 6L16
E2018	454	6BA6	ECC85		6L12 6AQ8 B719
E2095	471	EL70	ECC86		6GM8
E2133	2276	2319	ECC88	5358	6DJ8
E2134	2179		ECC91	858	6J6 6101
E2157	455	ECC81 12A T7 B309	ECC180	5365	6BQ7A
E2163	491	ECC82 12A U7 B329	ECC189	5331	6ES8
E2164	492	12AX7 ECC83 6L13 B339	ECC230	2984	6080 11D12
E2221	2277		ECC801S	4024	6201 M8162 12AT7WA
E4103/B/4	1522		ECC802S	4003	6067 M8136 12AV7WA
E4103/E/4	2205		ECC803	4004	6057 M8137 5751
E4205/B/7	1588	ECR30	ECC962		E92CC
E4025/C/7	1525		ECF80	5215	6BL8/6C16
E4412/B/9	1587	ECR35	ECF82	5065	6U8
E4412/C/9	2301	902A	ECH3	2929	
E4412/E/9	1529		ECH22	302	
E4412/M/9	1521		ECH33	2930	
E4504/B/16	1385		ECH35	1347	6K8 X61M
E4504/C/16	1517	09D	ECH41		CF61
E4504/E/16	1391	90E64	ECH42	2888	6CU7 6C9/X150 6C10 62TH
E4504/M/16	966		ECH71		ECH21
EA50	1092	6D7	ECH80		6AN7
EA52	5140	6923	ECH81	2128	6AJ8 X719 6C12
EA76	469	6489	ECH83		6DS8
EA A91	283	6AL5 EB91 D77 6D2	ECH84		6JX8
EA A901S		5726 M8212	ECH113		ECH42
EABC80		6AK8 6LD12 6T8 DH719	ECL80		6AB8 LN152/63TP
EAC91	137		ECL82	9167	6BM8 6PL12
EAF41	3883	EAF42	ECL84		6DX8
EAF42	3883	6CT7 WD150	ECL86	8297	6GW8
EB34	1054	6H6 D63	ECR30	1588	701A
EB41	3881		ECR35	1587	901A 90EG4 E4412/B/9
EB91	140	6D2 D77 D152 DD6	TYPE	CV No.	EQUIVALENTS
EBC3	1428		ECR60	1097	1601A
EBC21	347		ECR75	1787	4C35
EBC33	1055	0M4 DL63 1639	EE17	2957	5557 XG5-500
EBC41	3882	6CV7 6LD3 DH150 62DDT	EE866		DCG4/1000G
EBC80		6BD7	EE8020	2967	
EBC81		6LD13 6B07A	EF2	1427	EF9
EBC90	452	6AT6 DH77	EF5		EF9 EF8
EBC91	2526	6AV6 DH77	EF8	1713	EF9 EF5
EBF2	2925		EF9	1427	EF8 EF5
EBF32	501	3CV01	EF22	303	7B7 W143 7G7
EBF80		6N8 ZD152 WD709	EF36	1056	0M5 EF37A
EBF81		6AD8	EF37	358	5A/157D 0M5B
EBF83		6DR8	EF37A	5080	0M5
EBF89		6DC8 6FD12	EF39	1053	6K7GT
EBL31	2926		EF40	3885	
EC20	5112	3A/167M	EF41	3886	6CJ5 W150 6F16 7F16 6ZVP
EC31	1433		EF42	3887	Z150 6F13
EC50	2927		EF50	1578	Z90
EC52	1137	RL16	EF51	1035	QP QTT2
EC53	1197	RL18	EF53	1136	
EC54	66	RL37	EF54	1136	
EC55	273	5861 TD03-10G DET22G	EF55	173	
EC70	468	6778 6K4	EF70	467	6487
EC71		5718	EF71	475	5899
EC80	1886	6Q4	EF72	465	5840
EC81	1868	6R4	EF73	466	6488
EC86		6CM4	EF74	476	6391
EC90	133	6C4 L77	EF80	1376	6BX6 Z152 Z719 64SPT
EC91	417	6AQ4 6L34	EF81		6BH5
EC92		6AB4	EF82	2127	6CH6
EC95		6ER4	EF85	1375	6BY7 6F19 W719 6F26
ECC31	1285	6N7G	EF86	2901	6267 6F22 6CF8 Z729

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
EF89	5156	6DA6	EM81	5055	6DA5
EF91	138	6AM6 6F12 SP6 Z77 8D3	EM84	5434	EM840 6FG6
EF92	131	6CQ6 6F12 9D6 VP6 W77 6F21	EM87		6HU6
EF93	454	6BA6 W727	EM91	797	2D21 20A3
EF94	2524	6AU6	EM840		EM84
EF95	850	6AK5 DP61	EN30	2349	
EF96		6AG5	EN32	2253	6574
EF97		6ES6	EN70	474	5643
EF98	8694	6ET6	EN91	797	2D21 20A3 4G280K
EF183	5831	6EH7 6F29	EN92	3512	5696
EF184	5810	6EJ7	EN93	1949	6D4
EF730	3928	5636	EQ80		6BE7
EF731	477	5899	ES15	3853	RS15
EF732	3929	5840	ES85	25	4242A 242C UE311 211 3B/850A
EF734	2432	6205	ES204A	2563	204A
EF861	3998	E180F 6688 5A/170K	ES207	3850	RS207
EF905	4010	M8100 5654	ES250M	1618	TZZ-250
EF905	4010	M8100 5654	ES253	3851	RS253
EF905	4010	M8100 5654	ES357	27	357A 4357A
EF905	4010	M8100 5654	ES450	1207	
EF905	4010	M8100 5654	ES833	635	833A TY4-350 3C/402A
EH90		6CS6	ES1001		3D/162E
EH900S	8697	E91H	ES1101		3B/402A
EHA5000	2687	889R 5667	ES1102		3C/100E BS1100
EHM2	2139		ES1500	1614	MT13
EHT1	19	V1901	ES1500A	1614	MT13
EHT15		ESU15	ESA891	2688	891R 3J/196E
EHW3000	2686	889 ESW5000	ESA892	701	892R 3J/197E
EHZ350		3C/750G	ESA892C	904	892R BR175
EK2	1426		ESA1500		3J/167E
EK32	1057		ESA2500		16J12
EK90	453	6BE6 X77 X727	ESA5000	2687	889R 5667 3J/198
EL1-1C		3B22	ESG250	1031	SG250 4C/252G
EL1C		3B22	ESP450	1506	5C/450A
EL2	1429		ESU15		EHT15
EL3		EL3N	ESU74	74	V1922 2T/460C
EL3C	822	4B24	ESU75	2945	
EL5B	2936	4B22	ESU76	2943	2V395C
EL22	304	7B5 KT81	ESU77	2160	A207 2S/460C
EL31	2888		ESU101		2V301B
EL32	1052	OM9 1637	ESU103	1835	3B28 2G/402A GXU1
EL33	2938	6AG6G KT61 6P25	ESU107		2V/521A
EL34	1741	6CA7 KT77	ESU111		F369B WL-869B
EL35	1269	6L6G KT66 5881 5932	ESU112		2S/460A
EL36	2940	6CM5	ESU115		2V/302B
EL37	586	6L6 KT66	ESU150	2946	2V/461C
EL38	450	6CN6	ESU200	5	4049D GU20/21 RG4/1250
EL41	3889	6CK5 N150 67PT	ESU208	1260	
EL42	3890	N151	ESU300	2947	AH221 GU21
EL50	2941		ESU450	1259	
EL70	471	5902 SN947D	ESU575		F375A DQ5
EL71		5902	ESU866	32	DQ2 866A RG3-250A GU12 2V/400A
EL80		6MS	ESU872	642	DQ4 872A 2V/471A
EL81	2721	6CJ6 EL820	ESU1500	2944	
EL82		6DY5	ESU8008		DCG5/5000S 2V/471B
EL83	2726	6CK6	ESV4002		3Z/252E
EL84	2975	6BQ5 N709 6P15	ESW501	1621	
EL85	3526	6BN5	ESW1500		3Q/167E
EL85	3526	6BN5	ESW5000	2686	889 3Q/198E
EL90	1862	6AQ5 N727	ET3	451	1B3GT R6158A
EL91	136	6AM5 7D9 N77	ET30	1030	T250
EL95	8458	6DL5	ET51	5277	6700
EL360	5830	11E14 5B/102D	ET1000		TB4/800
EL820	2721	6CJ6 EL81	EW2A	2139	
EL821	2127	6CH6 7D10	EY51	426	6X2 R12 SU61 U43 U151
EL822	2382		EY70	473	SN954 5641
EL861		E81L 6686	EY80		6U3
ELC3J	5234	TX2/3 5632 8063 ZT1011 XR1-1600A	EY81	5905	6R3
ELC6J		5632	EY82		6N3
ELC6J/A		TX2/6 5684 XR1-6400A 6087	EY84	2235	6374 R18
EM1	2942		EY86	2966	6S2
EM4	1434		EY87		6S2A
EM31	1077				
EM34	394	6CD7			
EM35	1103	6U5G Y61 6M1			
EM80	1352	6BR5 65ME			

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
EY88		6AL3	G10H	2173	MX103
EY91	135		G10/241E	2223	
EZ22	346	7Z4	G12H	2287	
EZ35	574	6X5GT U147 GW5 U70	G14		WL920
EZ40	3891	6BT4 U150 UU9 88KU	G15F	1913	WL927 CMG-33X
EZ80	1535	6V4	G20/5D		DQ6
EZ81	5072	6CA4 U709 UU12	G24	411	
EZ90	493	6X4 U78	G24E	2148	GM5B
EZ91	135	6AV4	G24H	2147	
F2	2338	1923	G48		1163
F60		1163	G49		1163
F123A	2949	T100-1	G50/1G	2208	
F129B	2950	129B 3P/270B 3Q/191E	G60E	2149	G60E
F228	734	228A	G75/2D	3798	VR75/30
F353	642	872A A4217	G75/3G	4030	QS75/60
F353A	642	872A DQ4 2V/471 A	G105/1D	686	VR105/30
F366A	32	866A	G108/1K	1833	0B2 QS1208
F369B		ESU111	G120/1B	438	
F375A		ESU575	G150/1A	75	4313C 313C
F869B	2723	869B	G150/2D	216	0D3 QS150-40
F872A	642	DQ4 2V/471A 872A F353A	G150/4K	1832	0A2 150C2 QS1207
F872B	642	4B32 4064B	G155/1C		2
F892R	904	892R	G160/1C		1
F/5726	4049	M8180	G180/2D	2029	
F/5654	4050	M8180	G180/2M	395	QS150/45
F/5750	4037	5750	G210/1C	212	
F/6057	4035	M8214	G240/2D	2174	
F/6060	4033	M8144	G279/1C		1A
F/6061	4045	6BW6 6061	G400/1K	2194	
F/6063	4001	6X4WA	G400/2G	4047	
F/6064	4002	M8140	G431		DW2 1821
F/6067	4034	N8144	G445B	1651	
F/6132	4056	6CH6 6132	G470		DW2 1821
F/6158	4069	13D3 6158	G500/1G		3900A
FA13	2952	5628	G1000/1G		3904A
FA14	2953	5629	G1500/1G		3901A
FA15	298	5626	G1800/1G		3903A
FC2	1043	210PG X22	G2080		CY1 UR1C
FC2A	2954	VHT2A X22 FV2A	G4120		DW4-500
FC4	2955	15A2 V04 MX40 VHT4 41MPG	G4120N		IW4-500
FC13C	2956	V013 15D1	GA5A	2647	532
FG17	2957	5557 TQ2 XG5-500	GC10A	2199	
FG27A	2958	873 BT5	GC10B/S	2271	Z303C 6482
FG57	5027	57 5559 XG1-2500 BT5	GC10/4B	1739	
FG67	742	1267 5728	GC10B/4B/L	6100	
FG105		105 XGQ2-6400	GC10B/L	6044	
FG154		3V/390B	GC10D	5143	DK20
FG235A		PL5552A	GD85M/S	449	QS1209 85A2 QS83/3
FG238A		PL5553B	GD85PR/S	4048	QS1212 M8098
FG271		PL5551A BK42C	GD87M	2573	5651
FP54	2960	5740	GD90M	5173	QS1215 90C1
FVD7	404	HR7	GD86W	2321	
FW4/500	1264	RV200/600 U18/20	GD86W/S	2321	
FW4/800	31	U20	GD100A/S	188	7475 QS92/10 ST11
FX215	2203	GHT1	GD100B/S	1070	7475 QS92/10
FX219	2520	5C22 XH16-200	GD108M	1833	0B2 QS1208 108C1
FX225	1787	4C35 XH8-100	GD120A/S	1110	S130
FX227	372	3C45 XH3-045	GD120A/S	45	S130P
FX229	3521	5949 XH25-500	GD150A/S	216	0D3 150C3 0B3 G150/3D
FX231	2993	XH16-200 5C22	GD150M/S	1832	150C2 0A1 QS1207
FY		PM24M	GD150P/S	2225	QS1200 150B2
FZ9011G	2270	90AG CAG29	GDT4B	1141	
FZ9011V	2132	90AV CAV29	GET2	743	V611 NE2
FZ9012G	2133	90CG CMG29	GEX36	2279	
FZ9012V	2134	90CV CMV29	GEX45/1	425	2X106G GD4
G1/235G	3524		GEX54	448	0A71 GD5
G1/371K	2224		GEX64	2310	
G5A-1200		QS1218/1200	GEX66	2290	
G5A-1600		QS1218/1600	GEX402	2902	
G5A-2000		QS1218/2000	GEX541	5104	
G5H	2247		GHT1	2203	FX215
G-9		WL868 918	GHT2	2418	

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
GL-75/30	3798	VR75/30	GWP-3	360	NE18
GL446	3725	GL446A	GWP-4	263	NE19
GL446A	932		GX4W	4005	6063
GL446B	687		GX402	2902	
GL455	2789	9LP7	GXU1	1835	3B28 RR3-250 2G/402A
GL464	3604	2C43 464A	GXU2	2518	4B32 RR3-1250 2G/472B
GL464A	688	464A	GXU3	2399	AX228 2G/473C RR3-1250A
GL471A	3586	1B21A	GXU4/1000		DCX4/5000
GL532	2647	532	GZ30	2748	5Z4GT
GL572	2516	2C39A 3H/151J	GZ31		5U4G
GL592	1903	592	GZ32	593	5V4 54KU 5A Q4
GL806	2658	806	GZ33	5745	53KU
GL868	2680	868 1P23 918	GZ34	1377	5AR4 5U4
GL869B	1420	2V/531E	GZ37	378	53KU
GL889R	2687	889R	GZ40		GZ41
GL892R	904	892R BR175	H2	2977	PM2HL
GL918	2692	918	H2D	1044	TDD2A 210DDT HD24
GL927		3546PW	H4D	2813	11A1 AC/HLDD TDD4 MHD4
GL2050	2565	2050 B2A	H12	2978	
GL8020	2967	8020 8023	H20		R2018
GL8023	933	15E 8023	H30	2979	D5
GLE10000/025/1	1625	DCG4/100ED RG3-250	H42	1182	HL4G
GLE20000/2.5/10		6508 DCG9/2	H45	372	BT79 3C45
GLY1		1652M	H63	1073	6F5G
GM1B	2149	G60E	H210	1673	PM2HL
GM4	2138		H410	2981	
GM5	411		H610	2982	
GM5B	2148	G24E	HA1	1171	A40 AT4
GM255/1D		22M1	HA2	1059	955 4671
GN-4		Z520M	HAA91		12AL5
GN-6		XN3	HAD	1419	11D3 HL/DD/1320
GN24		DW2 1821	HBC80		19T8
GR1		TV801	HBC90		12A T6
GR10A	5291	Z503M	HBC91		12A V6 12BK6
GS-4		Z521M	HCH81		12A J8
GS10C/S	2325	Z502S 6476	HD14	1818	1H5G DAC32
GS16S0(80-110)	2694	930	HD21		DDT2A
GS16/160	248	CMG22/160	HD22		TDD2A H2D
GS16(80-110)	1473	CMG22 (80-110)	HD23		TDD2A
GS18	242	CMG25	HD24	2985	TDD2A H2D 210DDT
GS26	1432	CMG8	HD51		0A2
GS46	584	PE7B	HD52		0B2
GS47X	405	3546PW 927 55CG CMG34X	HD203A	2986	203A
GS118	1801		HF61	3886	6F15 EF41 6CJ5
GS146	2692	918 CMG32	HF62	1839	6F13 EF42
GS544X	1913		HF98	1928	12BA 6
GT1	2969	849	HF94	1961	12AU6
GT1A	1143	ME1502	HF100	2987	4C22
GT1C	1128	ME1502 AN1	HF121		10F9 UF41
GT1E	530		HF130	638	838 RK58
GT11	435		HF150		T100-1
GTE20000/2.5/10		6508 DCG9/2	HF175		T100-1
GTP-1		NE1000	HF200	2988	3C/150A
GTP-2		NE1004	HF300	693	
GTRY5M/S	284	75P1	HG2		DQ2A
GTR95M/S	286	SM95 QSP5/10 95A1	HG25	32	866A
GTR120A/S	45	S130P QS150/15 150B3	HK24	941	25T 3C34
GTR150M/S	287	SM150	HK24G	789	3C24 25TG
GU1	1262	RG1-250	HK54	707	4C25
GU5	1072	MU4250	HK90		12BE6
GU7	2973		HK354E	2989	
GU8	1628		HK257	824	4E27
GU11	532	AW205	HL2	1673	PM2HL 210HF
GU12	32	DQ2 866A ESU866 RG3-250A	HL2Met	2991	
GU18	1629	RG3-1250 AH238	HL2K	1050	PM2HL
GU20	1435	AH211	HL4	1173	354V
GU20/21	5	RG4-1250	HL4G	1182	H42
GU21	5	4049D ESU200	HL4X	1037	41MTL ACHL
GU23		2V/474C	HL13	1109	4D1 HL1320 HL13C
GU50	1072	RG1-240A ESU101 2V/307A	HL13C	1109	4D1 HL1320
GWP-1	498	NE14	HL21	1303	PM1HL
GWP-2	395	NE17	HL21DD	1044	TDD2A H2D 210DDT

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
HL23	1130	3A/205D	JPG9-02C	5443	
HL23DD	2995		JPT9-01	2420	
HL41	24	3A/204D	JPT9-02	2421	
HL41DD	2996		JPT9-60	3560	2J51A
HL90		19AQ5	K2		DCG4/1000ED
HL92	1959	50C5	K3A	410	
HL94		30A5	K7RF4	1808	2J32
HL133	2998		K23B		TDD2A H2D 210DDT
HL133DD	2999		K30A		PM2HL HL21
HL210	3500	PM2HL HL21	K30B	3531	L2 PM2DX L21
HL210A	1303		K30C		PM2HL 210HF
HL610	3501		K30D		PM2HL
HL1320	3502	HL13C 4D1	K30E	3532	L2 PM2DX L21
HLA1	2806	AC/2HL	K30G	3620	PB1 P220 PM2A PL2
HLA2	1678	354V AC2HL 41MHL	K30K		PM2HL HL21
HLB1	1021	210LF DZ10 HL2	K33A	1032	PD220 PM2B
HLDD/1320	3503	DDT13 11D3 13DHA	K33B	1696	PD220A
HM04		6BE6 EK90 X77	K40B	1018	SG215 PM12A S21-24
HN309		PCL82	K50M	3787	VP210 VP2 VP21
HP2	1032	220B PM2B PD220	K40N		PM12M V52
HP6	138	EF91 6AM6 8D3 Z77	K50N		VP2B VP210
HP13	1106	9D2 VP1322	K70B		PM22A Pen220 PT2 2200T
HP13S		VP13A	K70D	3578	PM22D
HP210	1322	SP210	K77A		QP240
HP215	1322	SP210 Z21	K77B		QP22B QP21
HP415	1169	9A1 VMP4G	K80A		FC2 210PG VHT2A X22
HP4101	1124		K80B		FC2A
HP4101C	1282	SP4 8A1 SPT4A AC/SG	K301	2161	RX3-120
HP4105	1169	VP4	K302	2164	
HP4106	1169	VMP4G 9A1	K305	2263	
HP4115	1169	MV5Pen 9A1	K307	1871	707B
HR1		R10 6305	K308	2283	
HR2	261	R10 2T/270K 6304	K312	2273	
HR7	404	FVD7	K322	2791	
HR21	1673	HL210 PM2HL HL2	K324	2304	
HR210	1673	PM2HL	K329		Z211/1G
HSD	1695	11D5 DH30	K335	2343	
HT7		XG5-500	K376		4KM100LA
HT415	3540	5C22	K377		4KM100LF
HV18	2988	HF200 NU200	K931/A	6142	
HV951	1420	2V/531E	K1051	2849	
HVR1	1290	U16 1877	K1105P2	3736	
HVR2	1134	SU2150A	K3103	8793	
HY51B	702	830B UE930B	K814024	3514	
HY61	124	807	KB2	3515	
HY75	751		KD21	3789	0A3 VR75/30 G75/2D QS75/40
HY90		35W4	KD24	686	0C3 VR105/30 G105/1D QS1206
HY114B	3505		KD25	216	0D3 VR150/30 G150/3D QS150/40
HY615	3506	615 Det20	KK2	3516	
IFW1	1039	1W4 431U	KL35	768	1F5
IL861		18046	KR3	218	
IW2		R2 1881	KR6/1	116	
IW3	1039	IW4-350 R2 1867 UU5	KR6/2	237	
IW3-350	1039	APV4 R1 UU4 MU12	KR6/3	238	
IW4	1039	R3 UU5	KR6/4	272	
IW4/500	1039	APV4 R3 UU5 MU14	KRN2	87	
J231AAA		1163	KRN3	217	
JN2-2.5A.5A		7091	KS7-85		2K26
JN2-2.5W		7292	KS7-85A	5900	5976
JP2-0.2		7090	KS9-20	1795	723A/B
JP2-2		7091	KS9-20A	2792	2K25
JP9-2.5		7028	KS9-20D		723A/B
JP9-7	3676	MAG3 2J42	KT2	1118	PM22A Pen220 220DT
JP9-7A	370	M508	KT8	1079	
JP9-7D	1866	M503A	KT8C	1079	
JP9-15	3997	MAG4 2J42A M513B	KT9-150W		55395
JP9-50	2852	2J56	KT24	1334	PM22A PT2 Pen21
JP9-75		6972 M575	KT30	3519	
JP9-80	3569	4J52A	KT31	3520	N31
JP9-80A	5018	4J52A	KT32	1287	25L6
JP9-250	2284	4J50A	KT33		25A6G
JP9-250A	3953	4J78	KT33C	1503	

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
KT38	1576	VT75A	M215H	177	
KT41	1181	7A3 AC2Pen 42MP/Pen	M500	353	
KT42	1174	7A2 AC/Pen	M501	76	
KT44	1577	VT75A	M501A	3660	
KT44T	1576	VT75A	M502	2166	JP9-250 4J50A
KT45	1825		M502A	2373	JP9-180
KT61	1438	6AG6 EL33 N147 6P25	M503D	1866	2J42 JP9-70
KT63	1186	6F6G N63	M505	1747	
KT66	1075	EL37 6L6G	M506A	3982	MAG11
KT67	437		M507	69	
KT71		50L6GT	M508	370	JP9-7A MAG3
KT81	885	7C5 EL22	M509	3976	
KT88	5220	12E13 6550 7D11	M510	1827	2J32
KTW61	1100	6S7	M511	3953	4J78 JP9-250A
KTW62	1100		M512	1828	2J36
KTW63	1195	6K7 6U7 W63	M513	3528	
KTW73	1056	0M5 EF36	M518A	1997	
KTW73M	3527		M519	1484	CV1483 CV5 CV6
KTW74M	918	12K7 W76	M521	2376	
KTZ21	1320	SP210 Z21 SP2	M523	2412	
KTZ41	3529		M525	2365	
KTZ63	1074	6J7G Z63	M526	3676	2J42 JP9-7
KTZ73M	3530		M528	1497	CV1495 to CV1500 incl.
KU25	2993	5C22 FX219 FX231	M529	2426	
KU45	3875		M536		4J43 4J44
L2	3531	PM2HL 270LF	M537	2281	K308
L2/B		PM2HL	M539	2425	
L4	2815	AC/P TT4 SP2	M541		5J26
L9	328		M542	3611	5586
L21	3532	PM2HL 210LF	M543		7182
L21DD	1308	TDD2A H2D	M548	5031	
L22DD	3533		M549	2424	
L30	3534		M551	3569	4J52A
L63	1067	6J5G	M559		8356
L77	133	EC90 6C4	M589		8357
L102/2K		16STE	M8079	4025	6058 QA2404
L210	1021	PM2HL	M8080	4058	6100 6C4WA
L410	1152	L410 PM4DX	M8081	4031	6101 6J6WA
L600	3537	L600N 6C22	M8082	4063	6516 QA2402
L610	3538		M8083	4014	6064 S6F12 QA2403
LA2-3B	6087		M8091	4044	6443
LD210	502	210LF D210	M8096	4039	6062
LG210	1021	D210 L210	M8097	4059	
LL2	1732	PM2HL L2 LL21	M8098	4048	QS1212
LL4	1689	PA1 AC/P 104V	M8099	4070	6AQ4
LL4C	207	AC/P4	M8100	4010	5654 6AK5W 6096
LN119		UCL82 10PL12 50BM8	M8122	4007	5726/6AL5W
LN152		ECL80 6AB8 63TP	M8124	4035	F/5750
LN309	5144	PCL83	M8136	4003	6067 12AU7WA
LN319		30PL1	M8137	4004	6057 12AX7WA
LP2	548	220 L2 220 PA	M8140	4002	F/6064
LP2	1023	PM202	M8141	4036	F/8141
LP2(Selected)	1304	L2 220	M8142	4054	QS1213
LP4	1168	AC044 PP3/250 PX4	M8144	4033	F/6060
LP220	1166	LP2 PM2A L2	M8149	4034	F/6067
LS5	1637		M8157	483	QV04-7
LS5A	1650		M8161	4015	6065 QA2400
LS5B	2846		M8162	4024	12A T7WA 6060QA2406
LS5X	1667		M8163	4104	
LS6A	3541		M8167	4067	7001
LS7	1660		M8179	4076	6J2 ECC91
LS8	1656		M8180	4050	F/5654
LS8A	1676		M8190	4066	5783WA
LS9B	1658		M8196	4011	5725/6AS6W
LS408A	3536	53A	M8204	4018	5727/2D21
LS532	3542		M8212	136	QA2402 5726
LS650	391	5B/252M	M8216	3987	5644
LS731	273	DET22 ME1001	M8223	4020	0A2WA QS1210
LZ319		PCF80 9A8 LZ329 8A8 30C1	M8224	4028	0B2WA QS1211
LZ329		30C1 PCF80 LZ319 8A8 9A8	M8225	4080	75C1
M2H	2886		M8232	5029	6J4WA
M6	2145		M8234	5082	5725/6AS6W

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
M8237	4049	F/5726	MT16	1030	ET30 T250
M8245	4019	6005/6AQJ	MT17	2957	5557 XG5-500
MAG8	2380		MT57	5027	5559 XG1-2500
MAG11	3982	M506A	MT105		105 XGQ2-6400
MB13-1	5070	5FP11	MT5544	2210	5544 XR1-3200
ME4S	1412	TV4	MT5545	2215	5545 XR1-6400
ME6S		TV6	MU1	3567	
ME41	3565		MU2	1459	
ME1001	273	TD03-10 DET22	MU12	1039	IW4-350 R2 R42 UU5 1867
ME1005	354	TD03-5 DET23	MU12/14	1039	IW4-500 UU5
ME1100	1795	KS9-20 723A/B	MU13-38		T929B
ME1101	3676	2J42 JP9-7 MAG3	MU14	1039	R3 UU5 IW4/500
ME1101A	3997	JP9-15 2J42A	MU4250	1072	GU50 RG1-240A
ME1101D	1866	JP9-7D	MV6-5	1976	
ME1400	432		MVSG	1165	AC/SG/VMS4B S4VA
ME1401	2269	5802	MVSPen	3571	VMP4G 9A1 AC/VP1
ME1402	2730	5800	MVSPenB	3572	AC/VP2 W42
ME1403	2348	5886	MW6-2	1737	3NP4
ME1500	474	EN70 5643	MW13-35	5389	5FP4A
ME1501	2253	6574 EN32	MW13-38		T929W
ME1502	1128	AN1	MW13-75		5FP4A
ME1503	1787	XH-100 4C35	MW18-2		CRM71
MF13-1	3959	5FP7A T923Z	MW22-3		CRM92 CRM92A
MF22-22	3999		MW22-22	3999	
MF22-75	2372		MW31-16		C12FM
MF31-55	429	C12R 12AEP26 3069M	MW31-74		12XP4A C12FM
MF31-95	2328	12T03A PenT139	MW43-69		17BQP4 C17/1A
MG13-38		TY29G	MW50-23		21CJP4
MH4	1037	354V AC/HL HLA2	MW53-80		C21/1A 212K 21CLP4 G21KM
MH4Met	399	NR31	MW100	25	ES85 4242A 3B/850A
MH41	1505	HLA2 AC2/HL 484V	MX1	1515	
MHD4	3546	DDT4 ACHL/DD DDT	MX2	418	
MHL4	1038	41MLF 244V	MX40	3576	V04 15A2 7AHP1 FC4 X42
MHLD6	1101		MX52	306	
MHT4	2955	FC4	MX57	209	
MKT4	1683	Pen4VA 7A2 ACPen MP/Pen	MX103	2150	
ML4	1732	PA1 TT4 AC/P	MX105	2151	
ML6	1105		MX107	2152	
ML869		ESU111	MX108	2153	
ML5667	2687	5667 889R	MX113		18513
MM4V	1165	AC/SG VMS4B	MX114		18514
MM13-10	5164	5DHP32	MY3-275	1252	212E V1505
MP31-55	2314	C12R 12AEP26	MY13-38		T929R
MP/Pen	1683	Pen4VA AC/Pen KMT4 7A2	MZ05-20	3573	
MPT4	1174	Pen4VA 7A2 ACPen MP/Pen	MZ05-60	1206	BS60 DA60
MPT4K	3552		MZ1	25	ES85 242C
MPT42	2554	111A	MZ1-75	444	
MR4	1611		MZ1-76	3574	
MR10	34		MZ1-100	1219	DA100 ES1102 3C/100E
MR75	1142		MZ2-200	200	
MR300	3557		N1-1		GN-5 GN-1
MR300E	3558		N14	1803	DL35 1C5 GWP-1
MS4	1164	AC/SG	N15	819	3Q5 DL33
MS4B	3533	SP4 AC/SG SPT4A	N16	819	DL33 3Q5
MS4C		SP4 SPT4A	N17	820	DL92 1P10 S34
MSG/HA		SP4 MS4B AC/SG	N18	818	DL95 3Q4
MSG/LA	1677	SP4 AC/SG MS4B	N19	2983	DL94 3V4 1P11
MSP4	1282	SP4 MSPen 8A1 AC/SG	N25		DL96 3C4 1P1
MSP41	3562		N30	1425	7D5 PP13A
MS/Pen	3561	SP4 8A1 AC/SG	N31	3520	KT31
MS/Pen (Clear)	1124	SP4 8A1	N40		7A3 MKT4 AC/Pen
MS/Pen (5Pin)	244	4046A	N41	1181	PenA4 7A3 AC2Pen PT4 42MP/Pen
MS/PenB	1125		N43	1657	40223 3A/110B
MS/Pen/T	1129		N63	1186	GF6 KT63
MT4	1610		N66	586	EL37
MT9F	1439		N77	136	EL91 6P17 6AM5 N144 7D9
MT9L	1440		N78	3711	6BJ5
MT11SW	3563		N118		N145 10P13
MT12	3564		N119		UL84 10P18 45B5
MT12A	1441		N142	1977	UL41 45A5 451PT
MT13	1614	ES1500A	N144	136	EL91 6AM5 N77 6P17 7D9
MT14	1442		N145	1977	10P13

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
N147	2938	6AG6 EL33 KT61	OG3	449	85A2 QS83/3
N148		7C5 ELL22 KT81	OM1	1402	CY31 U281
N150	3889	EL41 6CK5 67PT	OM3	1054	EB34
N151	3890	EL42	OM4	1055	EBC33 6R7 DL63
N152	5077	PL81 21A6 N359 N339	OM5	1056	EF36
N153		PL83 15A6 N309	OM5A	358	EF37
N154		PL82 16A5 30P16 N329	OM5B	5080	EF37A
N308		30P4	OM6	1053	EF39
N309		PL83 15A6 N153	OM7		EF39
N329		PL82 16A5 30P16 N154	OM8	1057	EK32
N339		PL81 21A6 N152 N339	OM9	1052	EL32 KT61 EL32
N359	5077	PL81 21A6 N152 N359	OM10	1581	6K8GT ECH3PX61M
N369		PCL82 16A8 30P12	OP41		PenB4 AC4Pen
N379		PL84 15CW5 30P18	OP42		PenA4 AC2Pen PT4
N709	2975	EL84 6BQ5 6P15	OS20		6474
N727	1862	EL90 6AQ5 BPM08	OS20F		7294
N1031	5401		OS40F		7293
N1032	5402		OT400	635	ES83/3
NE2	2976	VG11 GET2	OZ4	517	1003
NE16	651	GL991 CD2005	OZ4A	517	CK1003
NE17	359	GWP-2	OZ4QA	692	1003
NE18	360	GWP-3	P2	1246	PM202 P220A
NE19	263	GWP-4	P2-12		QGE04/20 832A
NE1000		GTP-1	P2-40B		829B
NE1004		GTP-2	P4	1168	AC044 PX4
NHP1	310		P6	1836	1163
NL715	2957	PL5557 XG5-500	P12/250	1168	AC044 LP4 PP3/250 PX4
NO22M		6861	P15		1164
NP90	3607		P27/500	1040	PP5/400 D024
NSP1	220	631 P1	P41	1408	
NSP2	2296		P57	1466	
NT2	2213	CC3L	P61	1066	
NU1	2680	918 CMG-32 PJ23	P120-1A	26	813
NU20	1474	CE20 CE25	P215	1019	215P PM2
NU40T2	1076	DA41 T240	P220	3620	220PA L2
NU75H	751	HY75	P220A	1023	PM202 P2
NU114B	3505	HY114B	P240		PM202
NU200	2988	HY18	P410	3621	P410 PM4X
NU615	3506	615	P415	1154	PM254
054V	1698	PA1 ACP/1	P425	1154	PM254
0202		FC4	P435		PM24M
O406		FC4 VHT4	P435/1E	398	715B
O1307		FC13	P440N		Pen4VA
OA2	1832	6073 150C2 STV150/30	P441N		Pen4VA
OA2WA	4020	6073 M8223 QS1210	P460	1168	PX4 AC044 LP4 P11/250 4XP
OA3	3798	VR75-30 QS75/40	P495	1181	PenA4 PT4
OA4	752		P535/1E	398	C1111 715B 4B/603E
OA70	8243	1N87	P552/1E	427	5D12 C1111 4B/602E
OA73	442	1N616	P610	3622	P610
OA79		1N541	P625	1208	625P
OA79-2		1N542	P807		7293
OA81	448	GEX59 GEX55	P809		7294
OA85	1354	1N478	P810		6198
OA86		1N480	P811		7295
OA87		1N490	P813		6332
OA91	7130	1N617	P816		5820A
OA95	7041	1N618	P817		6474
OB2	3799	VR90-30 STV108/30 180C1	P822		7389
OB2WA	4028	6074 M8224	PA1	1689	104 3B/100B AC/P1 054V
OB3	3799	VR90-30	PA20	1732	ML4 ZP AC042
OC2.5	1607		PA40	3623	V503 D030
OC3	686	VR105-30 QS1206	PA5021		DCG4/1000G 866A 2V/400A
OC16		2N115	PABC80		9AK8
OC45	5105	GET873 TK30C	PC86		4CM4
OC70	5457	2N279	PC95		4ER5
OC71	7005	2N280	PCC84	5192	7AN7 30L1 B319
OC72	7006	2N281	PCC85		9AQ8
OC72-2		2N282	PCC88		7DJ8
OC73	5337	2N283	PCF80	8433	30C1 9A8 LZ319 LZ329 8A8
OC76	8541	2N284	PCF82		9U8A
OD3	216	VR150-30 150C3 QS150/40	PCF86		7HG8
OE3	431	85A1	PCL82		16A8 30PL12

TYPE	CV No.	EQUIVALENTS	TYPE'	CV No.	EQUIVALENTS
PCL83	5144	LN309	PM22	3649	220PT
PCL84		15DQ8	PM22A	3647	KT2 Pen220 PT2 2200T
PCL85		18GV8	PM22D	3578	KT2A Pen31
PD22A	1163		PM24A	1167	PT4 PenA1
PD220	1032	220B PM2B	PM24B		PM24C
PD220A	1696	B21 240B PM2BA	PM24D	1237	PM24C
PE7	3624	GS46	PM24E	3648	PT25
PE8	3625	VS18BO	PM24M	1181	PenA1 PT4
Pen4DD	519	DDPP4M	PM202	185	P220A P2
Pen4VA	1174	APP4A 7A2 AC/Pen MKT4 MP/Pen	PM252		P220A P2
Pen4VB		PenA4 7A3 AC2/Pen KT41 PT4	PM254	1153	
Pen13C	889	7D8 Pen1340	PM256	1208	625P
Pen20		PP2018	PMT58		T935W
Pen25	65		PP2		PM22A Pen220 PT2
Pen31	3578	PM22D KT4	PP3/250	1168	AC044 PX4 LP4
Pen36A	1672		PP4		PM24M Pen A1 Pen425
Pen36C	1672	7D6 Pen383 Pen3520	PP5/400	1040	P27/500 PX25 D024
Pen40DD		DDPP39M	PP6/400		PX25
Pen44	3630		PP6AS		EL2
Pen45	1407		PP6BG		EL33 KT61 6P25 6M6
Pen45DD	3631		PP6BS		EL3
Pen46	1127		PP12A	1425	7D5 N30
Pen220	1118	PM22A KT2 PenB1	PP13A		7D5 N30
Pen220A	1051	220PT	PP24S	2875	CL4
Pen231	3633	PM22D	PP35		7D6 Pen383
Pen383	1456	7D6 Pen36C	PP36	1672	
Pen428	3634	AC4/Pen B4	PP60	1075	KT66 EL37
Pen1340	3635	7D8 Pen13C	PP220		PM202
Pen1346	3636		PP222	1118	KT2 Pen220
Pen3520		7D6 Pen383 Pen63C	PP225	1051	Pen220A PM22C
PenA1	1181	PM24M PT4	PP2018		Pen20
PenA4	3638	APP4B 7A3 AC2/Pen KT41 PT4	PSV13		2S/570E
PenB1	1118	PM22A KT2 Pen220 PT2	PT2	1118	PM22A KT2 Pen220 220T
PenB4	3626	GS46 AC4Pen	PT4	1181	7A3 PenA4 AC2Pen PT41
PenDD4020		DDPP39M	PT4D		DN41 AC/2PenDD
PJ8	3640	5556	PT5	3652	
PJ23	3680	1641 CMG32 NU1	PT5E	3579	
PK150	150		PT6	3653	SW75Pen
PL17	2957	TQ2 XG5-500 5557	PT10	2809	AC/5Pen
PL21	797	TQ2 2D21 EN91 4G/280K PL2D21	PT11	3654	
PL36		25E5 30P4	PT15	1104	SW40Pen
PL81	5077	21A6 N152 N359	PT25	1046	PM24E
PL82		16A5 30P16 N154 N329	PT41		PM24M PenA1
PL83		15A6 N309 N153	PT41B		PM24
PL84		15CW5 N379 30P18	PT240	3649	PM22
PL500		27GB5	PT425	3656	
PL522	2520	5C22 FX219 XH16-200 PL5684	PT425X	1167	
PL1265		Z300T	PTA	889	7D5 N30
PL5684	5234	C3JA 8063 2T1011 XR1-1600A	PTS	3520	N31
PL6011	5234	C3JA XR1-1600A PL5632	PTZ	1672	7D6 Pen36C
PM04	454	6B16 EF93 W727	PV05-15	3657	
PM05	850	6AK5 EF95 DP61	PV1-35	3658	
PM07	138	6AM6 EF91 E8D3 0A240	PV4		DW4-350 R42
PM1A	2977	PM2HL	PV25	3752	U30
PM1HF	1673	PM2HL 210HF HL2	PV29S		UR2
PM1HL	3641	HL2 210HL HL21	PV30	3758	UR3C
PM1LF	3642	HLB1 D210	PV30S		CY2 UR3
PM2	1019	215P 220P	PV495	1443	DW2 1821 U10
PM2A	3643	LP2 L2 PB1 P220	PV4200		DW4-500 1561
PM2B	1032	220B	PX4	1168	AC044 LP4 PB3/250 4XP P460
PM2BA	1163	B21	PX5	1040	420XP D024 PX25
PM2D	3531	L2 L21 PM2DX	PX25	1040	P27/500 PP5/400 PX5 D024
PM2DL		PM2HL	PX25A	3623	PA40 D030 DA30 V503
PM2DX	3645	PM2HL L2 L21	PX41	1168	AC044 LP4 PX4 4XP
PM2HL	1050	HL2K HLB1	PX230		PM202 LP2 P2
PM3	1151	L410 410LF	PY3-600	1373	
PM4DX	1152	410LF L410	PY31	3753	25Z4 U31
PM12	1018	215SG Z21 S23	PY32		U291
PM12A	1018	SG215 S23	PY80		19X3 U152
PM12M	1041	220VS VS2 W21	PY81		17Z3 U153 U329
PM12V	319	VS24 S215VM	PY82		19Y3 U192 19SU U319 U154
PM14	1159	S410	PY83		17Z3

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
PY88		30AE3	QS1208	1833	0B2 108C1 G108/1K
PZ1-35	1240		QS1209	449	85A2 063
PZ1-75	1221	SW75Pen PT5E	QS1210	4020	M8223 0A2WA
PZ30		R14	QS1211	4028	0B2WA
QA75/40	1895	STV70/60	QS1212	4048	M8098
QA2400	4015	6065 M8161 6CQ6	QS1213	4054	M8142
QA2401	133	L77 6C4 M8080 6100	QV03-12	2129	5763
QA2402	136	N77 EL91 M8082 6516	QV04-7	309	
QA2403	4014	M8083 6064 S6F12	QV04-7R	483	M8157
QA2404	4025	6058 EB91 6D2 5726 M8079	QV05-25	124	807 5B/250A QED6-50
QA2405	415	44A/160M	QV06-20	3523	6146
QA2406	4024	M8162 12ATT7WA 6060 6201	QV1-150	2519	4X150A
QA2407	4005	6063 6X4WA	QV1-150A	2519	4X150A 4H/135M
QA2408	3942	5692	QV20-P18	2752	4PR60A
QB2-250	26	813 QY2-100 5C/100A	QX21	797	2D21
QB3-300	2130	6155 C1108 Q160-1 RS685 QY3-125	QY2-100	26	C143 813 5C/100A
QB3-5-750		6156 C1112 Q400-3 RS686 QY4-250	QY3-65	1905	4-65A
QB5-1750		6079	QY3-125	2130	6155 C1108 RS685
QBL5/3500	5219	6076 ACS4 CR1100 QY5-3000A	QY4-250	2131	6156 C1112 RS686
QBW5/3500		6075 CW1100 QY5-3000W	QY4-400	5959	C1136 7527
QE03-10	2129	5763 QV03-12	QY4-500A		QBL4/800 4X500A
QE05/40H		6159 QV06-20C	QY5-500	3522	6079 RS687
QE06-50	124	5B/250A 807	QY5-3000A	1098	ACS4 CR1100
QEL1/150	2519	4X150A	QY5-3000W		CW1100 6075
QF196	1078	D1 2B36	QYS50-P40	313	
QK26	1768	707B	QZ06-20	6123	8042
QK221	3902	6002	R1	1443	APV4 U10 UU5 506BU
QK283	3685		R2		IW4-350 MU14 R42
QK284	3686		R2/10	97	
QK338	3903	6410	R2/38	98	
QK353	3737		R3	1039	IW4-500 UU5 MU14
QK533		N1034	R3/10	95	
QK610		N1010	R3/16	96	
QMG159	2874	1005	R4	1796	DW4-350 R2
QP21	1035	240QP QP230 QP321	R4A	1074	DW4-500 R3 UU5 1561
QP22A		QP240	R6A	2775	1163
QP22B	1035	QPT2 QP230 240QP	R10	261	2T/270K HR2 6305
QP25	556		R11	1111	U27
QP230	1035	QP22B 240QP	R12	426	EY51 6X2 SU61 U43
QPT2	1035	240QP QP230 QP2V	R14		PZ30
QQE03-12	2798	6360 QQV03-10 TT24	R15A		1164
QQE03-20	2799	C1134 6252 TT20 55B/200A	R16		1T2 U37
QQE06-40	424	5894 C178A QQV06-40A 55B/400A	R17	2218	6157
QQV02-6		TT23 QQE02-5 6939	R19		1X2B
QQV03-10	2798	11E13 TT24 6360	R41		DW4-500 1561
QQV03-20	2799	6252	R42		IW4-350 UU5 1867 R2
QQV03-20A	2799	TT20 C1134 6252 55B/200A	R52	1863	5Z4G GZ30 U50 5Y3
QQV04-15	788	832A C180	R121	5080	EF37A
QQV04-20	2663	815	R144	138	6AM6 6F12
QQV06-40	424	5894	R186	2235	EY84 6374
QQV06-40A	2797	TT25 C178A 5894 55B/400A	R243		EC55 5861 DET22
QQV07-50	5847		R290		K81A
QQV5-P10	2295	3E29	R612G	597	2X2A
QQZ04-15	1838	5895	R1169		XL601
QS74-40	3798	VR75/30	R2018		H20
QS75/20	284	75B1 STV70/20	R4410	521	
QS75/40	3798	6939 VR75/30 0A3 G751	R6010	2353	
QS75/60	434		R6015	2354	
QS83/3	449	85A2 QS1209 5651	RE614		LK4101
QS92/10	188	7475	RENS1824		X2818
QS95/10	286	95A1	RENS1834		X2918
QS105/45	422		RG1-125	1263	
QS108/45	422		RG1-204A		MU4250
QS150/15	287	SM150 150A2 150B3	RG1-240	1626	GU50
QS150/40	216	VR150/30 0D3 150C3 G150/3D	RG1-240A	1072	ESU101 2V/301A
QS150/45	395	BS54 G180/2M	RG1-250	3667	DCG1-250
QS1200	2225	6354 150B2	RG3-250	1625	DQ2A ESQ866 GU12A
QS1202	4052		RG3-250A	32	866A GU12 DQ2
QS1203	4053		RG3-1250	1629	DCG4/5000 GU18 2V/474C
QS1205	3798	VR75/30 0A3 G75/2D	RG3-1250A		GU21
QS1206	686	VR105/30 0C3 G105/1D	RG4-1000	3670	
QS1207	1832	0A2 50C2 G150/4K	RG4-1250	5	GU20/21 AH221 4049D 2V/500C

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
RG5-500	1349	4064A	S2	1018	215SG Z21 PM12
RG5-12GC		6786 DGG7/100B	S2A	984	
RG1000/3000	1449	DCG5/5000GB DQ4 872A	S3A	374	
RGN4004		G4004	S4V		SP4 AS4120
RHK6332		723A/B	S4VB	1677	MS4B SGA1 AC/SG
RK18		T50-1	S6F12	4014	
RK20		4052A 5B/600A	S6F17	4040	L5A/210K
RK20A	704		S6F33	4064	L5A/210K
RK25		4061A 5B/100A	S11A		DW2 506BU 1821
RK28	3672	4069A 5C/101A	S11D		DW4-350 R2 R4
RK28A	3673	803	S11E2	4060	
RK30	2657	800	S13A	3694	
RK31	3674		S15/5D		TQ6
RK33	875	2C21 1642	S23	3691	215SG Z21
RK34	18	4074A 3AA/138A DET19	S23Met	3692	SG215 Z21
RK38	2591		S24	1018	Z21 215SG
RK47	3677	814	S25A	16	3A/145J
RK48		813 P120-1	S26A	53	3A/146J
RK48A	690		S27A	82	3A/147J
RK51		T50-1	S28A	88	3A/148J
RK49	3679	807	S30/2K		6N030T
RK57	625	805 T100-1	S30A	127	3B/401J
RK60	3680	1641	S30C		AC044 2P4 4XP
RK62	3681		S30D	1732	PA20 AC042
RK63	2589	250TH HK454H	S55B/1K		DLS24
RK6112	2116		S60/1B	979	DLS10 Z530331
RKR47	3683		S61/1B		DLS15
RKR72	709	72 3B24	S62/1D		DLS16
RKR73	2543	73	S62/3D		DLS21
RL7	1136	EF54	S75/3D		DLS23
RL16	1137	EC52	S102/3K		9D1387
RL17	2957	5557 XG5-500	S130	1110	GTR120A
RL18	1197	EC53	S130P	45	GTR120A
RL21	797	2D21 EN91 20A3	S213		PM12M US2 W21
RL37	66	EC54	S215	3695	S21 215SG PM12
RL57	5027	5559 XG1-2500	S215A	3696	221
RL1267		1267 Z300T	S215B	1018	221
RR3-250	1835	3B28 ESU103 GXU1 2G/402A	S215M	1018	5B1 PM12 S23
RR3-1250	2518	4B32 GXU2 2G472B	S215VM	1028	PM12M VS2 W21
RR3-1250A	2399	2G/473C GXU3 AX228	S218		SP2 Z22
RR3-1250B		GXU4	S410	1159	PM14
RS384	1506	5C/45A	S420		VP4B
RS566		3Q/310E	S435N		SP4 MS4B SPT4A
RS613	1924	5866 TB2.5/300 TY2-125	S610	3698	
RS630	8479	5867 TB3/750 TY4-400	S625	1817	
RS631	1351	5868 TB4/1250 TY4-500	S856		0A2 QS1207
RS685	2130	6155 QB3/300 QY3-125	S860		0B2 QS1204
RS686	2131	6156 QB3.5/750 QY4-250	S1328		SP13
RS687	3522	6079 QB5/1750 QY5-500	SAL39	3876	
RS1002		QB4/1100 RS868	SC1/350	2456	
RS1007	1924	6155 QB3/300 QY3-125 RS685	SC1/400	2457	
RS1013L		TBL12/50	SC1/600	2458	
RS1013W		TBW12/50	SC1/800	2459	
RS1061		5868 TB4/1250 TY4-500	SC1/1000	2460	
RSQ15/5		TQ6	SC1/1200	2461	
RV18		3C/150A	SC1/1400	2462	
RV120/250	1064	DW4-500 1561	SD	1170	DDA41 V914
RV120/350		DW4-350 U14 R4 1561	SD2		PM2HL
RV120/500		DW4-500 U14 UU5 1561	SD6	1989	
RV200/600		U18/20 FW4-500 FW4-800	SD61	1092	EA50 6D1
RX3-120	1261		SDR		5555
RX120A		1164	SDS		5553B
RX233	3688	2C33	SE5A1		T946H
RX233A	793	2C33	SE211C		PM12M VS2
RX235	709	72 3824	SG215	3702	VS2 215SG
RY12-100	2967	8020	SG215A		PM12M VS2 215SG
RZ		UR1C 1D5 CY1C U4020	SG220	1018	221
RZ1-150	3690		SG250	1031	ESG250
RZ1-250	2853		SGA1	1190	AC/SG S4VA
S1M2	2134	90CV	SIM2	2154	CS12B
S1M5	2155	C512BR	SIM5	2155	CS12BR
S1.5/80DV		5552A	SM95	286	GTR9SM/S 95A1

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
SM150	287	150A2 150B3	SW5	3715	
SN947D	471	EL70 5902	SW7	3719	CV1069
SN954	473	5641 EY70	SW10H	1076	DA91 TZ40
SN956B	2241	DY70	SW35Pen	1370	PY1/35
SP2	1320	210SPT SPT2 Z21	SW75Pen	1371	PZ1-75
SP2D	1322	SP10 Z21	SX541	2384	ZS10C
SP4	1324	AC/S2 HP4101C MSPen SPT4A	SX542	2413	ZS20
SP4B	3703	MS/PenB	SX643	4077	ZS21
SP6	136	EF91 8D3 6AM6 Z77 6F12	SX644	4078	ZS22
SP13	1108	8D2 SP13A	T2G9/10E	357	D165747
SP13B	3704	SP13C	T4A/9AA		4001AM
SP13C	3704	8D2 13SPA C50B	T4A/15AB		4001F
SP40Pen	1104	PT15	T4A/15AD		4001N
SP41	1574	5A/207D	T4A/15DA		4005N
SP42	1336		T4A/75AA		4001C
SP61	1065		T4D	3721	D1
SP210	1322	SP2 Z21	T6D		EA50
SP215	1320		T20	3722	V970
SP220		PM202 P2	T20G	1047	3B/200B
SP1320		SP13C	T21	3679	RK49
SPT2	1049	210SPT Z21 SP2	T40		T50-1
SPT4A	1282	8A1 MS/Pen AC/SG MSP4	T41	3723	
SRS4452	2799	QQE03/20 6252 QQV03/20A TT20	T55		T50-1
SS22AF	39		T200	3724	H4D 11A2
SS210	1018	5B1 PM12 S23 S215	T250	1030	ET30
SS1971	1604	3Q/211E	T300/1		TB3/1000
ST11	188	7475 E1436	T814	2658	806
ST90K		Z900T 5823	T901		MW41-1
STE1000/2.5/15	5027	5559 XG1-2500	T901A		MW41-1
STE1300/01/5	797	2D21 EN91 4G/280K	T2000	1121	
STE2500/6/40		105 STE2500/640 XGQ2-6400	TB2.5/300	1924	5866 TY2-125
STE15000/15/45		DCG7/100	TB3/750	3479	5867 T3501-1 RS630 TY4-400
STR108/30		0B2 QS1204	TB4/1250	1351	5868 RS631 TY4-500
STR150/30	1832	0A2 QS1207	TB4/1500		B1152
STV70/20	284	75B1	TB5/2500		7092 TY6-800 B1153
STV70/60	1895		TBL2/300		7004 TD2-300A
STV85/10	449	85A2 0G3 QS1209 5651	TBL6/6000	3926	5924 TY6-5000A
STV108/30	1833	0B2 108C1 G108/1K	TBL7/8000		6961 TY7-6000A
STV150/30	1832	0A2 150C2 QS1207 G150/4K	TBL12/100		6078 TY12-50A
STV150/200	3709		TBL12/250		6618
STV280/40	1068	G280/1B	TBW6/600		5923 TY6-5000W
STV280/80	1069	G280/2B	TBW7/800		6960 TY7-6000W
STV280/80A	3712		TBW12/25		6617 TY12-25W
SU25	1921	U24	TBW12/100		6077 TY12-50W
SU41	1113	U17	TD03-5	345	DET23
SU44	261	2T/270K	TD03-10	273	DET22
SU45	371	1966	TD03-10F	2204	A2327
SU61		EY51 6X2 R12 R12A U43 U151	TD04-20	397	DET24
SU750	128		TD04-20A	5754	CV5747 Q/DET24
SU2130	1290	HVR1 U16	TD05-12	2933	2C46
SU2150	3751	U21	TD1-100A	2516	2C39A
SU2150A	1290	HVR2A	TD2.5-12	688	464A
SU4150A	1134	HVR2	TD3-12	2932	2C42
SV-0A2	1832	0A2 4020	TD4-10	2201	E2043
SV-0B2	1833	0B2 108C1	TD6		EA50 2B35 6D1
SV2C39A	2516	2C39A TD1-100A	TDD2	1044	HL21DD HD24
SV-2D21	797	2D21 EN91	TDD2A	3726	HD24 H2D 210DDT
SV-3B28	1835	3B28	TDD4	3727	DDT4 11D3 AC/HLDD DDT
SV-3D21A	2659	3D21A	TDD13C	1419	DDT13 11D3 HL/DD/1320
SV-3D22	2851	3D22	TG30		3C45
SV-4B32	2518	4B32	TG57		PL5557
SV4X/150A	2519	4X150A	TG200	1787	6268 4C35 XH8-100
SV-4X150D	3991	4X150D	TG1000	2520	5C22 6279 XH16-200
SV-57	5027	3V390B	TG3000		5949
SV-75/30	3598		TGRB		872A 2V/471A
SV280/40	1068		TH2	1410	X24 220TH
SV280/80	1069		TH4	1460	20A1 AC/TH1 X41
SV-705A	3587	705A 2T/450E	TH4A	1194	20A1 AC/TH1
SV813	26	813 C143	TH4B	1194	ACTH1 X41
SV-828	631	828	TH21C		TH2321 TH29
SV-5545	2215	XR1-6400	TH22C		TH29 TH2320
SV-VR150/30	216	0D3 150C3	TH41	1411	

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
TH225		2K25	TV4	1412	TV4A
TH813	26	QB2-250 QY2-100 5C/100A	TV4A	1412	TV4
TH1249		2J49	TV6	2942	RM1 ME6S
TH1250		2J50	TV101		ESU151
TH1450		4J50	TV102	1504	VU504
TH1452		4J52	TV801		4303CB TY1-50
TH1478		4J78	TWS1		W13/1D
TH1526		5J26	TX2/3	2210	5544 XR1-3200
TH1725A		725	TX2/6	2215	5545 XR1-6400 3G/502A 6807
TH2200		K345	TX3-200	3739	
TH2312		TH29	TX4	1194	X41 20A1 AC/TH1
TH5021B	32	DCG4/1000G GU12 866A	TX5-400	3740	
TH5021V	1625	DCG4/1000ED RG3-250	TX12-12W	2871	CAT6
TH5031	1449	872A	TX41		TH4B
TH5031B	1835	DCG5/5000GB 3B28 872A TGRB 2V/471A	TXM100		2D21 EN91
TH5040		869B	TY1-50	1288	DET12 8019
TH5221		3B28	TY2-125	1924	5866
TH5221V/B		DCX/1000 3B28 2G/402A	TY3-250	1350	5867 RS630 TY4-400
TH6011		PL5577	TY4-350	635	833A 3C/A02E
TH6031		PL5559	TY4-500	135	5868 RS631
TH6120		PL105	TY5-500		TB4/1500 B1152 14D12
TH6220		PL5545	TY6-800		TB5/2500 7092 B1153
TH6230		PL3C23	TY6-5000A	3926	5924
TH6345		3C45	TY6-5000B	8730	BR1160 YD1120 5762
TH6435	1787	6268 4C35 XH8-100	TY6-5000W		5923 TBW6/6000
TH6522	2520	5C22 HT415 XH16-200 6279	TY7-6000A	5239	TBL7/8000 6961
TH6907	3521	5949 1907 XH25-500	TY7-6000W		TBW7/8000 8268 6960
TH7020		5551A BK42C	TY12-25		TBW12/25
TH7030		5552A BK24C	TY12-25A		TBW12/25 6618
TH7040		5553B	TY12-50A		6078 TBL12/100
TH9804		7038	TY12-50W		6077 TBW12/100
TMC15B	3730		TYS4-500	1889	
TMC16B	3731		TZ03-20	1047	3B/200B
TMC20B	3732	405UA	TZ2-250	1618	ES250M
TP4	1718	AC/TP	TZ2-300	3741	
TP22	1344		TZ20	3742	
TP25	1345		TZ40	1076	DA41 SW40W
TP26	3735		U4	1608	
TQ1/2		3C23 ASG5023	U5	3743	
TQ2		PL17 TH6011 FG17 ASG5017	U6	3744	
TQ2-3	2210	5544 ASG5044A XR1-3200	U10	1443	RV120/350 R1 UU5 506BU
TQ2/6	2215	5545 C6J TH6020 XR1-6400	U12	1064	DW4-500 UU120/350
TRP4	2378		U14	1796	DW4-500 R3 1561 UU5
TRP5	2379		U15	3747	R4A 1561
TRW1	2351		U16	1290	SU2150A HVR1
TRW2	2303		U17	1113	
TRW5	2297		U18	1264	FW4-500 451U
TRW7	3539	6024 ATR387	U18/20	31	FW4-800 AZ50
TS70	798	2E22	U19	187	
TSP4	560	AC/SP3 RTSP4	U19/23	187	
TSW50	1288	DET12 4304CB 3B/504B	U20	31	FW4-800
TSW50A	1235		U21	3751	FW4/800
TSY4-500	1889		U22	3750	
TT4	1179	41FP ML4 AC/P	U23	235	
TT10	26	813 QY2-100 5C/100A TH813	U24	1921	B142
TT11	1501	E1192	U25		U47
TT12	524		U26	2966	EY86 U49 6S2
TT15	415	44A/160M	U27	1111	V1907 19G12 2T/360B
TT16	2963	C1108 4-125A QY3-125B	U30	3752	
TT16D		C1108	U31	3753	25Z4G PY31
TT17	2957	PL5557 XG5-500	U33		VLS61
TT18	2666	829B C144 QQV07-40	U37	2289	1T2 R13
TT20	2799	QQV03-20A C1134 6252 55B/200A	U41	2115	1T2 1B3GT DY30
TT23	2466	QQV02-6 6939	U43	426	EY51 R12A 6X2 U151 SU61
TT24	2798	QQV03-10 6360	U45		U25
TT25	2797	QQV06-40A 5894	U47		U26 U25
TTR21MR	3841	6F1	U50	1268	5Y3GT 5Z4
TTR31	221	E1516	U52	1071	5U4G GZ31 5931
TTR31MC	1748		U54	378	53KU GZ37
TTR31MR	1923		U60	4075	
TV03-10	1573		U70	574	6X5GT EZ35 U147
TV03-10A	1089		U74		35Z4GT U76

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
U76		35Z4GT U74	UR3C	3758	
U78	493	6X4 EZ90	UR40/F	4121	
U82	3919	Z724 7Z4 U149	UR45	4116	
U118		U145 U404	UU2		R2 R41
U119		UY85 38A3 U189 U381	UU3		IW4-350 R2 R3 R1 MU14 R42 1867
U142		UY41 31A3 311SU	UU4	3759	IW4-350 R3 MU14 R42 1867
U143	2862	AZ31	UU5	1039	IW4-500 R3 MU14
U145		U404 UY41	UU6	1413	
U147	574	6X5 EZ35 U70 5852	UU7	3761	UU8
U149		7Y4 U82	UU9	1855	EZ40 U150 6BT4 66KU
U150	3891	EZ40 6BT4 UU9 66KU	UU10		RV200/600
U151	426	EY51 6X2 R12 SU61 U43	UU12	5072	EZ81 6CA4 U709
U152		PY80 19X3 EZ40	UU60/250		IW4-350 R2 R42 1867 UU5
U153		PY81 17Z3	UU120/250		IW4-350 R2 UU5
U154		PY82 19Y3 U192 U319 19SU	UU120/350	1796	RV120/350 R2 DW4/350
U192		PY82 19Y3 U154 U319 19SU	UU120/500	1064	APV4 R3 IW4-500 MU14 R3 R43
U201		CY31 U281 U301	UV203A	2986	203A
U281		CY31 U201 U301	UX866		DCG4/1000GB
U291		PY32	UX6653	3592	
U301		CY31 U281 U201	UY21		UY1N
U309		PY80 19X3	UY41		31A3 U142 311SU U404
U319		PY82 19Y3 U154 U192 19SU U153	UY82		55N3
U329		PY81 U251	UY85		U381 38A3 U119
U381		UY85 U119 38A3	UY807		807
U404		31A3 UY41	V20	764	UR1C CY1C
U600	3756		V20S		CY1 UR1
U709	5072	EZ81 6CA4 UU12	V30	7011	1D5 U4020
U718	3891	UU9 6BT4 EZ40	V40	2967	8020 RY12-100
U4020	1267	V30 UR1C 40SUA 1D5	V41	3892	AZ41
UAA91		12AL5	V54		K358
UABC80		DH109 10LD12	V61	3891	EZ40 UU9 6BT4 U150
UAF42		12S7 WD142	V70D		T50-1
UBC41		14L7 10LD3 DH142 141DDT	V120	3762	
UBC81		10LD13	V123	3763	
UBF80		171DDP 17C8	V154		K353
UBF89		10FD12 WD119 19FL8	V203A/1K	234	
UC92		9AB4	V203C/LD	230	
UCC85		B109 10L14	V226	3765	
UCH41		CF141	V230A/K	299	
UCH42		14K7 X142 141TH	V233A/1K	2190	
UCH71		UCH21	V235A/1K	2221	
UCH81		X119 10C14 19D8	V239/1K	5048	
UCH171		UCH81 19D8	V239C/1K		5048
UCL82		50BM8 LN119 10PL12	V240C/2K	2189	
UD2		PM202	V241C/1K	5049	
UD143	2293	XB1	V245	1367	
UD166C	2257	XC11	V246A/1K	228	
UE301	621	801	V248A	1366	
UE311	25	4242A ES85	V257	1723	
UE905	625	805 RK57	V271C/34	5911	
UE938	638	838 RK58	V312	3766	41MTL
UE945	735	845	V339	3767	
UE966	32	DCG/1000G 866A GU12	V503	3768	DA30 440XP 3B/355B
UE966A		DCG4/1000G 866A GU12A	V625	93	
UE972	642	872A	V630	201	
UE972A		DCG5/5000GB	V741	133	EC90
UE1967		PL5557	V872	1116	6F32
UF41		12AC5 W142 121VP	V877	3769	
UF42		Z142	V884	131	6CQ6 EF92 9D6 W77
UF85		19BY7	V885	132	
UF89		12DA6	V886	136	6AM5 EL91 N77
UL41	1977	45A5 N142 451PT	V887	136	EL91 N77
UL46	1977	N142 45A5	V914	1170	2D4A DDL4 D41
UL84		10D18 45B5 N119 10P18	V944A	3797	
UM34		10M1	V995	3770	
UM80		Y119 19BR5	V960	54	
UM85		10M2	V970	3772	
UN312E		4212E 3C/270A	V1010	3773	
UR1		CY1	V1020	3774	
UR1C	1267	V20 1D5 CY1C U4020	V1021	3775	
UR2		PV29S	V1023	3776	
UR3		CY3	V1029	3777	

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
V1040	987		VP4B	3582	AC/VP2 MVS/PenB W42
V1042	275		VP6	131	EF92 9D6 6CQ6 W77 6F21
V1043	401		VP12D	531	12C8
V1047	961		VP13		VP1320
V1052	441		VP13B	3796	VP1322 VP13C
V1063P1	400		VP13C	3790	9D2 VP1322 13VPA
V1101	1361	MX05-20	VP13K	1106	9D2
V1105	3778		VP21	1083	VP210
V1111	1127	Pen46	VP23	3792	
V1120	72		VP24Met	3793	
V1120B	73	11E3	VP41	21	VP4B AC/VP2
V1133	276	11E2	VP133	1457	
V1135B	345	12E1	VP210	3794	VP2 W21 210VPT
V1135C	377	1963	VP1322	3796	VP13B 9D2 13VPA
V1501	3581	3C/495A	VPT2		VP210 210VPT W21
V1505	1252	212E MY3-275	VPT4	1169	9A1 VP21 MVS/Pen AC/VP1
V1507A	1504	EHT1	VPT4B	1169	9A1 AC/WP1
V1901	1504	EHT1 2S/490C	VPT210	1083	VP2
V1904	1072	MU4250	VPTS		W30
V1906	20		VR75/30	3798	0A3 G75/2D QS75/40
V1907	1111	R11	VR90-30	3799	0B3
V1913	1508	U19	VR90-ST		0B3
V1920	121	19H1	VR105-30	686	0C3 G105/1D QS1206 4678K
V1922	74	ESU74	VR105-MT		0B2
V1924	100		VR105-ST		0C3
V1928	261	2T/270K R10	VR150-30	216	0D3 QS150/40 150C3 G150/30
V1939	371	19G6	VR150-MT		0A2
V2024	125		VR150-ST		0D3
V2030F	349		VS2	3800	PM12M W21
V2046A	486		VS10G	5290	
V2053	403		VS10H	6103	
VA16	528		VS18B0	3625	PE8
VA35	285		VS24	3802	PM12M VS2
VA50	2132	90AV CAV29	VS24/KMet	3803	PM12M VS2
VA201B	2494	K351	VS26	161	
VA220		K345	VS210		PM12M VS2 W21
VF01	80		VS215		PM12M VS2 W21
VF08	81		VSGA1	1677	AC/SG
VFT6	2747	6U5G 6M1 Y61	VX2		VP2B
VG1	2976	NE2 GET2	VX550A		DCX4/1000
VH550		DCG4/1000ED	VX7400		DCX4/5000
VH550A	32	DCG4/1000G GU12	W5/1G		6W50
VH7400		DCG4/5000GB	W7/1D	2358	
VH7400A		DCG4/5000EG	W7/2D	2188	
VHT2		FC2 X22	W7/3G	5293	
VHT2A	1043	FC2A 210PG X22	W13/1D		TWS1
VHT4	2955	FC4 15A2 MX40 41MPG	W17	785	DF91 1T4 1F3
VHTA	2956	15D1 FC13C	W21-4	171	210VPT
VHTS		X30	W21-7	3804	VP21
VJ5552		PL552A5	W25		DF96 1AJ4 1F1
VLS61		U33	W30K	3805	
VLS452	3784	5A/102A	W31	3806	
VLS492AG	1527	C655/1G	W42	2832	AC/VP2 VP4B
VLS631		S102/1K Z530333	W61	100	V1924 6K7
VM4V		AS4125	W63	1183	6K7G 6UT KTW63
VME4		AC/ME	W76		12K7GT KTW 74M
VMP4	1169	9A1 VPT4	W77	131	EF92 9D6 6F21 VP6 6CQ6
VMS4B	1677	AC/SG MM4V	W81		7H7 W143
VMP4G	1169	9A1 MVSPen VMP49	W118		W145 10F9
VMP4Met	1169	9A1	W119		10F18
VMS4	1165	AS4125	W142		UF41 12AC5
VO2		FC2A X22	W143		EF22 7H7 W148 W81
VO4	2955	FC4 MX40 VHT4	W145		10F9
VO6S	1426	EK2	W147	1053	EF39
VO13		FC13C 15D1 TH2320	W148		7H7 W143 W81
VO13S		FC13	W149		7B7
VP2	3787	VP21 W21 210YPT	W150	3886	EF41 6CJ5 62VP
VP2B	520	VP21 VP210	W719	1375	EF85 6BY7 6F19 6F26
VP2D	1083	VP210 VP2 VP21	W727	454	EF93 6BA6 PM04
VP4C	518	AC/VP1 VP4	W729		6F20
VP4Met	3788	9A1	W731D	2538	59
VP4A	1169	9A1 AC/VP1 MVS/Pen	W739		6F18 10FD12 19FL8

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
WD30	3810		WT-T111		5559 57 3V/390A
WD119		UBF89 19FL8	WT-T112		632B
WD142		UAF42 12S7	WT-T113		KU676
WD150	3883	EAF42 6CT7	WT-T117		5557
WD709		EBF80 6N8 ZD152	WT-T118		105
WE12		EM4	WT-T119		172
WE17		5551	WT-T127		833A ES833 3C/402E
WE189		1163	WT/T132		0A4G
WL17		5551	WT-T141	3798	VR57 VR75/30 G75/2D
WL631		5559 3V/390A BK66D 57	X14		1A7 DK32
WL651		5552A	X17	782	DK91 1R5 1C1
WL652		5551A BK42C	X20		DK92 1AC6 X18 1C2
WL653B		5555 BK46	X21	3816	FC2A VHT2A
WL655		5553B BK146C	X21Met	3817	
WL-813	26	813 5C/100A	X22	3818	FC2 210PG
WL-833	635	ES833 3C/402E	X23	1082	220TH TH2
WL-869B		ESU111 2V/540	X24	3819	220TH TH2
WL-872A	1449	872A 2V/471A	X24Met	3820	220TH
WL2899416D		1163 VE289	X25		DK96 1AB6 1C3
WRM8131	3873	3Q/810E	X30		1501
WT210-0001	797	2D21 4G/280K	X31	3821	2002
WT210-0003		WL884	X31Met	3822	
WT210-0004		WL2050 20A2 4G/281D	X41	1460	20A1 ACTH1 415TH TH4
WT210-0008		866A GU12 2V/4000A	X41Met	3823	
WT210-0011		0C3	X42	3576	MH4105 15A2 41MPG MX40
WT210-0016		0B3	X61M	281	ECH35 6K8 X65
WT210-0027		872A CV471A	X63	3825	6A8G
WT210-0038		WL172	X64	1208	6L7G
WT210-0043		5796	X65	3826	6K8G X147
WT210-0044		575A ESU575 2V/510A	X66	1099	AF3
WT210-0045		892 ESW892 3Q/197E	X71		12K8 X76M
WT210-0047		3C23	X76		12K8 X71M
WT210-0051		0A2	X77	132	EK90 6BE6 X727
WT210-0054		5830	X79	5115	6AE8
WT210-0056		PL5559 57 3V/390A	X81		7S7 X148
WT210-0057		632B	X117		5D22
WT210-0058		KU676	X118		X145 10C1
WT210-0059		677	X119		UCH81 10C14 19D8
WT210-0063		5685	X142		UCH42 14K7 141TH
WT210-0066		5665	X143		ECH21
WT210-0069		5557	X145		X165 X118 10C1
WT210-0070		5550	X147	1581	ECH35 6K8G X61M
WT210-0071		5551A	X148		7S7 X81
WT210-0072		5552A	X150	3888	ECH42 6CU7 6C10 62TH
WT210-0073		5553B	X661	2183	
WT210-0074		WL105	X662	2234	
WT210-0075		5822	X719	2128	ECH81 6AJ8 6C12
WT210-0077		5727	X727	453	EK90 6BE6 X77 X727
WT210-0078		WL182	X1100		N1029
WT210-0079		105	XB1	2293	UD143
WT210-0086		833A ES833 3C/402E	XB875B		2051
WT210-0091		0A4G	XB7674	1848	20A2
WT210-0093		5668	XCC82		7AU7
WT210-0100		5796	XE1	495	5802
WT210-0116		632B	XE2	2202	
WT210-0120		KU160	XF85		3BY7
WT210-0134		678	XG1-2500	5027	5559 BT5
WT210-0137		502A	XG2-12		255
WT210-0141		5796	XG2-500	1144	BT19
WT210-0157		5552A	XG2-6400		3V/490A
WT246		20A2 WG/281D	XG5-500	2957	FG17 5557 TT17
WT262		2V/400A 866A GU12	XG15/10		DCG7/100
WT269		VR105/30 G105/1D	XG15/12		DCG7/100B BT69
WT272		PL5557 TQ2	XG25		PL260
WT294	686	VR150/30 G150/3D	XGQ2-6400		PL105
WT382		872A 2V/471A	XGR3	151	
WT606	797	2D21 4G/280K	XH1.5	3830	
WT-T104		ESU575 2V/510A	XH3-045	372	BT79 3C45 FX227
WT-T105		892 ESW892 3Q/197E	XH8-100	1787	6268 4C35
WT-T106		6011	XH16-200	2520	6279 5C22
WT-T108		3C23	XH25-500	3521	5949 1907 FX229
WT-T110		5830	XL02.0V	1701	

TYPE	CV No.	EQUIVALENTS	TYPE	CV No.	EQUIVALENTS
XL1.5V	1720		Z203C	2271	GC10B
XL2V	3831		Z211/1G		K329
XN	14		Z225		DQ2
XN3		GN6	Z239/1G	2187	
XP1.5V	176		Z300T	1992	1267
XP2.0V	1702		Z303C	2271	QC10B 6482
XP4	1168	PX4	Z319	2276	
XR1-12	5957	5855	Z319/1G	2187	
XR1-1600	3706	5796	Z327/1KW	5437	
XR1-1600A		21B12 3G/450	Z329		30F5
XR1-3200	2210	5544	Z502S	2325	GC10C/S
XR1-6400	2215	5545 3G/501A	Z520M		GN-4
XR1-6400A		6807 3G/502A	Z521M		GS-4
XR6	465	EF72	Z700U	5820	7710 CCT6
XR7	466	EF73 6488	Z719	1376	6BX6 EF80 6BW7 Z152 64SPT
XR8	468	6K4 EC70 6778	Z729	2901	EF86 6F22 6267
XSG1.5V	175		Z759	5060	
XSG2.0V	3833		Z800U	2236	
XW2.0V	1703		Z801U	2255	
XXB		3C6	Z803U	2434	6779
XXD		14AF7	Z900T	5122	5823
XXFM		7X7	Z530331		DLS10 S60/1B
Y25	2980	1M1 DM70	Z530332	979	DLS10
Y61	1103	6U5G 6M1	Z530833		VLS631 S102/1K
Y62	2747	6G5G 6M1 Y64	Z530352	979	DLS10
Y63	1103	6U5G 6M1 63ME 6H45	ZA1	1175	A41 AP
Y64	2747	6G5G 6M1	ZA2	1095	4672 954
Y65	51	A1320	ZAA		5B/104D
Y119		UM80 19BR5	ZD	2889	DD620
Y220	1118	PT2 KT2	ZD17	784	DAF91 1S5 1FD9
Z14		1N5G DF33	ZD25		DAF96 1AH5 1FD1
Z21	3836	215SG SPJ2	ZD152		6N8 EBF80 WD709
Z62	3838	12CS7GT KTZ63	ZG532	2647	532
Z63		6J7G KTZ63	ZG547	372	BT19
Z66	3839	6BM6	ZP455	2789	9LP7
Z77	138	EF91 8D3 6AM6 SP6 6F12	ZP477	914	12DP7
Z90	1091	EF50	ZP527	855	6C21
Z142		UF42 10F3	ZP572		2C39A 3H/151J
Z145		10F1	ZP579	3842	5J29
Z150	3887	EF42	ZP584	3843	5J30
Z152	1376	EF80 6BX6 6BW7 Z719 64SPT	ZP590	3844	5J31

SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT
AD1	DLS10	ATS25A	807	CV69	E1326
AR4	PM1HF	ATS70	4282B	CV71	ASGL1M
AR5	P220	AU1	U18	CV72	V1120
AR6	LP2	AU2	RG250	CV73	11E3
AR7	4D1	AU3	U12/14	CV74	ESU74
AR8	HL23DD	AU3A	1561	CV75	4313C
AR9	PM1LF	AU4	U17	CV76	E1359
AR10	TDD2A	AU5	V1907	CV77	K TUBE
AR11	4019B	AU6	GU50	CV78	E1474
AR12	4020A	AU8	U22	CV79	E1429
AR13	B406	AU12	U15	CV80	VF01
AR14	220RC	AU13	5Z4	CV81	VF08
AR15	220LF	AW2	7475	CV82	3A/147J
AR16	220B	AW3	S130	CV84	4033A
AR17	MH4	AW4	STV280/40	CV85	V2023
AR20	4021B	AW5	ME41	CV86	V1507
AR21	EBC33	AW6	EM31	CV87	KRN2
ARD2	D1	CV1	D051	CV88	3A/148J
ARD4	D42	CV2	E1228	CV89	E1430
ARDD1	10D1	CV3	AFN202	CV90	E1368
ARDD3	6H6	CV4	E1229	CV92	4C27
ARDD5	EB34	CV5	4049D	CV93	V625
ARH1	6L7	CV6	DET20	CV94	DS103
ARP1	PT2	CV7	E1209	CV95	R3/10
ARP2	SP2	CV8	E1248	CV96	R3/16
ARP3	9D2	CV9	AL60	CV97	R2/10
ARP4	SP210	CV12	E1191	CV98	R2/38
ARP5	VP2	CV13	BT9B	CV99	E1373
ARP6	SP4	CV14	XN	CV100	V1924
ARP7	42MPT	CV15	E1266	CV105	E1371
ARP8	AC4Pen	CV16	3J/145J	CV108	BM313
ARP9	Pen1340	CV18	DET19	CV109	9KP5
ARP9A	7D8	CV19	EHT1	CV110	VS68
ARP10	PenA4	CV20	V1906	CV114	E1265
ARP11	TSP4	CV21	VP41	CV115	E1415
ARP12	VP23	CV22	BT45	CV116	KR6/1
ARP13	VP210	CV23	E1278	CV117	E1417
ARP14	2201PT	CV24	HL41	CV118	SP61
ARP15	KTW63	CV25	4242A	CV119	XJ
ARP16	6J7	CV26	813	CV120	MF
ARP17	6F6	CV27	4357A	CV121	V1920
ARP18	KT24	CV28	ACT9	CV122	E1336
ARP19	SP41	CV29	E1235	CV123	E1330
ARP21	Z62	CV30	4270A	CV124	807
ARP22	116/Pen	CV31	U20	CV125	V2024
ARP23	MS/Pen	CV32	RG3-250A	CV126	E1362
ARP24	220VPT	CV33	4077A	CV127	3B/401J
ARP25	KT41	CV34	MR10	CV128	SU750
ARP26	KT44	CV38	E1198	CV129	KRN2A
ARP33	MSP4	CV39	S22AF	CV130	KRN3
ARP34	EF39	CV40	E1255	CV131	9D6
ARP35	EF50	CV41	E1267	CV132	V885
ARP36	SP61	CV42	E1256	CV133	6C4
ARP37	QP25	CV44	E1155	CV135	EY91
ARP38	KTZ73	CV45	S130P	CV136	EL91
ARS7	VS24	CV46	8011	CV137	EAC91
ARS8	PM12V	CV49	3B/501A	CV138	EF91
ARTH2	ECH35	CV51	Y65	CV139	6L34
ARTP1	TP22	CV52	E1231	CV140	6AL5
ARTP2	TP25	CV53	3A/146J	CV141	U4B
AT20	MZ05/20	CV54	V960	CV142	XP1.5
AT35	DET25	CV55	E1190	CV143	U3
AT37	ACT36	CV56	E1325	CV144	U4
ATS25	807	CV57	E1271	CV145	U5
ATP4	V248A	CV58	E1273	CV147	U7
ATP5	V245	CV62	E1046	CV148	U8
ATP7	V266	CV63	E1323	CV149	U7
ATP10	1062A	CV64	E1342	CV150	PK150
ATP35	PV1-35	CV65	Pen25	CV152	GU21
ATP75	PT6	CV66	RL37	CV153	E1411
ATP100	4069A	CV68	E1198	CV154	E1419

SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT
CV155	E1190	CV250	CMG25RS	CV337	27M1
CV158	KR3	CV251	MX57	CV338	E1524
CV159	AL1	CV252	ACR22	CV339	24B2
CV160	M528	CV253	CS3A	CV342	DLS19
CV161	V526	CV254	30D5	CV343	V894
CV162	5Z094	CV255	VCR516	CV344	E1323
CV163	5744WA	CV256	GTK95M/S	CV345	12E1
CV164	CG3E	CV257	ACT22	CV346	EZ22
CV165	CS36A	CV258	E1273	CV347	EBC21
CV166	GEX54/3	CV259	E1495	CV348	VX4012
CV167	TY4/500B	CV260	SP61	CV349	V2030E
CV168	XD60	CV261	R10	CV352	EBC33
CV169	XD61	CV262	9MD6	CV353	M500
CV170	12SF7GT	CV263	VX3026	CV354	DET23
CV171	210VPT	CV264	AP1188	CV355	E1511
CV172	E1468	CV265	19E2	CV356	E1511
CV173	EF55	CV266	E1336	CV357	D165747
CV174	E1459	CV267	E1336	CV358	EF37A
CV175	XSG1.5	CV268	E1330	CV359	NE17
CV176	XP1.5	CV269	VCR97	CV360	NE18
CV177	M125H	CV270	VX3027	CV361	5B/700A
CV178	E1458	CV271	V986	CV363	VX363
CV180	KR4	CV272	KR6/4	CV366	6AG7
CV181	ECC32	CV273	5861	CV367	1N21B
CV182	E1488	CV275	V1042	CV368	9-3
CV185	PM202	CV276	11E2	CV369	1B35
CV186	E1342	CV277	19G3	CV370	JP9-7A
CV187	U19	CV278	B65	CV371	19G6
CV188	7475	CV279	NG16	CV372	3C45
CV189	BS4	CV281	X61	CV373	VX380
CV190	DLS10	CV282	E4504/M/16	CV374	S3A
CV191	E1494	CV283	6AL5	CV375	EA50
CV192	E1481	CV284	STV70/20	CV377	V1135C
CV199	NT99	CV285	VA35	CV378	53KU
CV200	MZ2-200	CV286	QS95/10	CV379	ACT19
CV201	V630	CV287	150A2	CV380	EF54
CV202	YF	CV288	ACT23	CV381	VX4024
CV207	AC/P4	CV289	G400	CV382	T24/40JA
CV208	1487	CV290	E1527	CV383	T24/40JB
CV209	MX57	CV292	E1481	CV384	DET5
CV211	V2030B	CV293	CV497	CV385	DL71
CV212	G210/1C	CV295	BS54	CV386	DF70
CV214	E1531	CV296	DDR2	CV387	DL72
CV215	E1497	CV298	FA15	CV388	VX4055
CV216	VR150/30	CV299	V230A/1K	CV389	401CAHA
CV217	KRN3	CV300	VCRX156	CV390	VCRX244
CV218	KRN3	CV301	VX301	CV391	5B/252M
CV219	E1046	CV302	ECH22	CV392	VCRX241
CV220	631/P1	CV303	EF22	CV393	VX7026
CV221	E1516	CV304	EL22	CV394	EM34
CV222	E1489	CV305	EF51	CV395	QS150/45
CV223	KRN2A	CV306	MX52	CV396	VCRX245
CV224	KRN2A	CV307	6LY1	CV397	DET24
CV225	ACT17	CV309	QV04-7	CV398	715B
CV228	V246A/1K	CV310	NHP1	CV399	MH4
CV229	1336	CV311	5L/444	CV400	V1063
CV230	V230C/1D	CV312	ESU74	CV401	V1043
CV232	MF	CV313	QSY50-P40	CV402	BS68
CV233	BS5	CV315	TY1-51	CV403	V2053
CV234	V230A/1K	CV319	E1453	CV404	FVD7
CV235	U23	CV320	E4103/B/4	CV405	927
CV236	E1465	CV321	KT66	CV406	E1423
CV237	KR6/2	CV323	KRN2	CV407	VCRX221
CV238	KR6/3	CV324	CV1628	CV408	A1714
CV240	ACT24	CV326	15B	CV409	A1820
CV242	CMG25	CV327	EF52	CV410	K3A
CV243	4045A	CV328	L9	CV411	GM5
CV244	4046A	CV329	6F33	CV412	A800
CV245	4328D	CV330	EC53	CV413	G150/2D
CV248	GS16	CV335	VCR522B	CV414	VX2040
CV249	3A/107A	CV336	VCR522C	CV415	TT15

SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT
CV416	6F17	CV491	12AU7	CV563	DA30
CV417	EC91	CV492	12AX7	CV564	35Z3
CV418	MX2	CV493	6X4	CV565	35Z3GT
CV419	DET18	CV494	B12	CV566	RG-2
CV420	VCRX277	CV495	5802	CV567	35Z5
CV421	CAT20C	CV496	CG14	CV568	35Z5GT
CV422	QS108/45	CV498	NE17	CV569	ECC35
CV423	25SN7GT	CV499	5B/253M	CV570	3Q/195E
CV424	QQV06-40	CV500	6T7	CV571	50L6GT
CV425	CG1-C	CV501	EBF32	CV572	6X5G
CV426	EY51	CV502	LD210	CV573	6X5
CV427	5D21	CV503	5W4	CV574	EZ35
CV428	5B/251M	CV504	6U5	CV575	5U4G
CV429	12AEP26	CV505	MT16	CV576	1B26
CV430	29C1	CV506	GL8023	CV577	1B36
CV431	85A1	CV507	REL64	CV578	6A8G
CV432	ME1400	CV508	1B49	CV579	6A8
CV433	BC/1E	CV509	6V6G	CV580	6A8GT
CV434	QS75/60	CV510	6V6	CV581	6C5G
CV435	GT11	CV511	6V6GT	CV582	6C5
CV436	ACT25	CV512	6W7G	CV583	6C5GT
CV437	KT67	CV513	4J53	CV584	GS46
CV438	G120/1B	CV514	2J36	CV585	6C6
CV439	22/11BXA	CV515	6Y6	CV586	EL37
CV440	1601ABC	CV516	3GP1	CV587	6Q7G
CV441	V1052	CV517	0Z4A	CV588	6Q7
CV442	GEX35	CV518	AC/VP1	CV589	6Q7GT
CV443	CK505AX	CV519	Pen4DD	CV590	6SJ7G
CV444	MZ1-75	CV520	VP2B	CV591	6SJ7
CV445	5J/180E	CV521	R4410	CV592	6SJ7GT
CV446	3Q/260E	CV522	7B7	CV593	GZ32
CV447	4078GA	CV523	12Y4	CV594	6SH7
CV448	GEX54	CV524	TT12	CV595	6SH7GT
CV449	85A2	CV525	12A6	CV596	2C45
CV450	EL38	CV526	12A6GT	CV597	2X2A
CV451	ET3	CV527	DA60	CV598	715C
CV452	6AT6	CV528	VA16	CV599	1851
CV453	6BE6	CV529	12AH7GT	CV600	5CP1
CV454	6BA6	CV530	GT1E	CV601	5BP1
CV455	12AT7	CV531	12C8	CV602	3AP1
CV456	E1633	CV532	GU11	CV603	10
CV458	BTR32	CV533	CAT17C	CV604	30
CV459	BTR34	CV534	12J5	CV605	32
CV460	BS48	CV535	12J5GT	CV606	37
CV461	BS92	CV536	4120/AA	CV607	38
CV462	BS84	CV537	12SA7	CV608	41
CV463	BS82	CV538	12SA7GT	CV609	42
CV464	9L01A	CV539	1B23	CV610	45
CV465	EF72	CV540	12SC7	CV611	56
CV466	EF73	CV541	1B3	CV612	57
CV467	EF70	CV542	5J23	CV613	58
CV468	EC70	CV543	12SK7	CV614	75
CV469	EA76	CV544	12SK7GT	CV615	76
CV470	VX8036	CV545	ACSP3	CV616	77
CV471	EL70	CV546	12SQ7	CV617	80
CV472	EF74	CV547	12SQ7GT	CV618	83
CV473	EY70	CV548	LP2	CV619	84/6Z4
CV474	5643	CV549	25A6	CV620	211
CV475	EF71	CV550	25A6GT	CV621	801
CV476	EF7A	CV551	25L6G	CV622	802
CV477	5899	CV552	25L6	CV623	803
CV478	CG64-H	CV553	25L6GT	CV624	804
CV482	A237	CV554	D63	CV625	805
CV483	QV04-7R	CV555	25Z5	CV626	808
CV484	DL92	CV556	QP25	CV627	810
CV485	V246A/1K	CV557	D42	CV628	811
CV486	V2046A	CV558	25Z6	CV629	814
CV487	CRT/51	CV559	25Z6GT	CV630	826
CV488	BS90	CV560	TSP4	CV631	828
CV489	BT75	CV561	35L6	CV632	829
CV490	19H5	CV562	35L6GT	CV633	829A

SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT
CV634	832	CV705	1D5GP	CV777	1LC5
CV635	833	CV706	6U7	CV778	1LC6
CV636	836	CV707	HK54	CV779	1LD5
CV637	837	CV708	161	CV780	1LH4
CV638	838	CV709	72	CV781	1LN5
CV639	843	CV710	368A	CV782	1R5
CV640	860	CV711	32	CV783	1S4
CV641	861	CV712	38	CV784	1S5
CV642	872A	CV713	1B27	CV785	1T4
CV643	874	CV714	C6A	CV786	1T5
CV644	875A	CV715	6F5GT	CV787	2A7
CV645	876	CV716	8013A	CV788	832A
CV646	879	CV717	5R4GY	CV789	3C24
CV647	884	CV718	5FP7	CV790	2AP1
CV648	885	CV719	2J21A	CV791	2B7
CV649	956	CV720	723A	CV792	2C22
CV650	958	CV722	725A	CV793	2C33
CV651	991	CV723	1619	CV794	2D2
CV652	1603	CV724	816	CV795	2D4A
CV653	1611	CV725	1B24	CV796	2D13C
CV654	1612	CV726	35Z3	CV797	2D21
CV655	1613	CV727	1N21	CV798	2E22
CV656	1616	CV728	1P6GT	CV800	2J22
CV657	1620	CV729	5V4G	CV801	2J54
CV658	1622	CV730	6A3	CV802	2C26
CV659	1625	CV731	6F6GT	CV803	2V3
CV660	6AC7	CV732	6W4GT	CV804	2V3G
CV661	1853	CV733	REL8D	CV805	50Y6
CV662	8012	CV734	228A	CV807	3A4
CV663	8025	CV735	845	CV808	3A5
CV664	9002	CV736	905	CV809	3A/105B
CV665	9003	CV737	906	CV810	3AE
CV666	9004	CV738	953	CV811	1291
CV667	9005	CV739	3AP1	CV812	3B24
CV668	35T	CV740	4MP1	CV813	959
CV669	279A	CV741	5LP1	CV814	3BP1
CV670	HK645	CV742	FG67	CV815	3D6
CV671	8021	CV743	GET2	CV816	3DP1
CV672	706A	CV744	GET4,5	CV817	3EP1
CV673	717A	CV745	HK24	CV818	3Q4
CV674	721B	CV746	468P1	CV819	3Q5GT
CV675	722A	CV747	6AC7	CV820	3S4
CV676	WE726A	CV748	725A	CV821	4A1
CV677	WE701A	CV749	1N23A	CV822	4B24
CV678	702A	CV750	01A	CV823	7A
CV679	703A	CV751	HY75	CV824	4E27
CV680	707A	CV752	0A4G	CV825	4SHA
CV681	708A	CV753	1A3	CV826	4THA
CV682	713A	CV754	1A4P	CV828	4TPB (Clear)
CV683	316A	CV755	1A5G	CV829	4TPB(Met)
CV684	274B	CV756	1A5GT	CV830	4TSP
CV685	VR150-30	CV757	1A6	CV831	5AP1
CV686	0C3	CV758	1B4P	CV832	5AP1
CV687	446B	CV759	1B5	CV833	89
CV688	2C43	CV760	1B7GT	CV834	5B/300B
CV689	700A	CV761	1B22	CV835	5BP1
CV690	RK48A	CV762	1C21	CV836	5BP4
CV691	357A	CV763	1CA4	CV837	12C8
CV692	0Z4	CV764	1D5	CV838	5CP7
CV693	HF300	CV765	1D7G	CV839	5GP1
CV694	12SG7	CV766	1E5GP	CV840	5H4
CV695	700B	CV767	1F4	CV841	5U4GT
CV696	700C	CV768	1F5G	CV842	5W4G
CV697	12SJ7	CV769	1F6	CV843	6AB5
CV698	12SJ7GT	CV770	1F7 GV	CV844	6AC5G
CV699	700D	CV771	1G5G	CV845	6AC5GT
CV700	12SR7	CV772	1G6G	CV846	6AC7
CV701	ESA892	CV773	AG6GT	CV847	6AF6G
CV702	830B	CV774	1H4G	CV848	6AG5
CV703	12K8	CV775	1LA6	CV849	6AC7
CV704	RK20A	CV776	1LB4	CV850	6AK5

SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT
CV851	6B4	CV927	12Z3	CV1039	IW4-500
CV852	6C4	CV928	13-4	CV1040	PX25
CV854	6C7	CV929	13SPA	CV1041	PM12M
CV855	6C21	CV930	14F7	CV1042	210LF
CV856	6G8G	CV931	15	CV1043	210PG
CV857	6H7	CV932	446A	CV1044	210DDT
CV858	6J6	CV933	15E	CV1045	X56
CV859	6J8G	CV934	15R	CV1046	PT25H
CV860	6K5G	CV936	24A	CV1047	TZ05-20
CV861	6K5GT	CV937	25A7GT	CV1048	210SG
CV862	6L5G	CV938	25AC5GT	CV1049	210SPT
CV864	6P7G	CV939	25B6G	CV1050	HL2K
CV865	6SD7GT	CV940	25B8GT	CV1051	Pen220A
CV866	6SJ7Y	CV941	HK24	CV1052	EL32
CV867	6SR7	CV942	25Y5	CV1053	EF39
CV869	6V5GT	CV943	26	CV1054	EB34
CV870	6V7G	CV944	27	CV1055	EBC33
CV871	6Z5	CV945	28D7	CV1056	EF36
CV872	6Z7G	CV946	28D7GT/G	CV1057	EK32
CV873	6ZY5G	CV947	31	CV1058	EP60
CV874	7	CV948	32L7GT	CV1059	955
CV875	1642	CV949	33	CV1060	807
CV876	7A6	CV950	E4103/B/4	CV1061	DET19
CV877	7A7	CV951	32A	CV1062	TY1-50
CV878	7A8	CV952	4081	CV1064	U12/14
CV879	7B4	CV953	32	CV1065	SP61
CV880	7B5	CV954	20K	CV1066	P61
CV881	7B5LT	CV955	4409	CV1067	6J5
CV882	7B6LM	CV956	4602	CV1068	STV280/40
CV883	7B8LM	CV957	32E	CV1069	STV280/80
CV884	7BP7	CV958	26J	CV1070	7475
CV885	7C5	CV959	20K	CV1071	U52
CV886	7C5LT	CV960	E4504/B/16	CV1072	GU50
CV887	7C6	CV961	V1047	CV1073	H63
CV888	7D7	CV962	E4504/E/16	CV1074	6J7
CV889	7D8	CV964	E4205-B	CV1075	KT66
CV890	7E5	CV966	E4504/M/16	CV1076	DA41
CV891	7E6	CV967	E4103/B/4	CV1077	EM31
CV892	7E7	CV979	DSL10	CV1078	D1
CV893	7F7	CV982	X962106	CV1079	KT8
CV894	7G7	CV983	X961101	CV1080	4307A
CV895	7H7	CV984	S2A	CV1081	4052A
CV896	7K7	CV986	15A	CV1082	220TH
CV897	7J7	CV987	V1040	CV1083	210VTP
CV898	7N7	CV989	41D5	CV1087	14L
CV899	7Q7	CV995	6AJ5	CV1088	832
CV900	7R7	CV996	EL32	CV1089	TV03-10A
CV901	7Y4	CV997	3092	CV1090	E1046
CV902	7W7	CV998	2000T	CV1091	EF50
CV904	892R	CV999	3C22	CV1092	EA50
CV905	9HP7	CV1000	4D1	CV1095	954
CV906	1602	CV1001	SU2150A	CV1096	5B/502A
CV907	12A	CV1002	E1192	CV1097	ECR60
CV908	12A5	CV1018	215SG	CV1098	E960T
CV909	12A7	CV1019	PM2	CV1099	X66
CV910	12A8GT	CV1020	220P	CV1100	KTW62
CV911	12B8GT	CV1021	210LP	CV1101	MHLD6
CV913	12DP7	CV1022	220PA	CV1102	BL63
CV914	12DP8	CV1023	230XP	CV1103	Y63
CV915	12FP7	CV1025	DET25	CV1104	PT15
CV916	12H6	CV1027	210LF	CV1105	ML6
CV917	12J7GT	CV1028	220VSG	CV1106	9D2
CV918	12K7GT	CV1029	ESU150	CV1107	15D2
CV919	12SF5	CV1030	4060A	CV1108	8D2
CV920	12SF5GT	CV1031	ESG250	CV1109	4D1
CV921	12SF7	CV1032	220B	CV1110	S130
CV922	12SH7	CV1034	DET3	CV1111	V1907
CV923	12SJ7GT	CV1035	QP21	CV1112	V1026
CV924	12SL7GT	CV1036	220PA	CV1113	U17
CV925	12SN7GT	CV1037	MH4	CV1114	E1024
CV926	4B35	CV1038	MHL4	CV1116	6F32

SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT
CV1117	41MTL	CV1194	X41	CV1318	VS24
CV1118	KT2	CV1195	KTW63	CV1319	PM12V
CV1119	DDL4	CV1196	AC5PenDD	CV1320	SP2
CV1120	SU2150A	CV1197	EC53	CV1321	9D2
CV1121	T41	CV1198	ACP4	CV1322	SP210
CV1122	41MXP	CV1200	202	CV1323	VP2
CV1123	EF8	CV1201	4317	CV1324	SP4
CV1124	MS/Pen	CV1202	304	CV1325	42MPT
CV1125	MS/PenB	CV1205	2587T	CV1326	AC4Pen
CV1126	4SH	CV1206	D060	CV1327	Pen1340
CV1127	Pen46	CV1207	ES450	CV1328	7D8S
CV1128	GT1C	CV1208	PM256	CV1329	APP4G
CV1129	MS/Pen/T	CV1219	MZ1-100	CV1330	TSP4
CV1130	HL23	CV1220	4033L	CV1331	VP23
CV1131	41DS	CV1221	PZ1-75	CV1332	VP21
CV1133	V960	CV1222	ACT6	CV1333	220IPT
CV1134	HVR2	CV1223	DET5	CV1334	KT24
CV1135	DET20	CV1233	DET5	CV1335	SP41
CV1136	EF54	CV1235	DET12	CV1336	SP42
CV1137	EC52	CV1237	PM24D	CV1337	116Pen
CV1138	E4412/B/9	CV1238	PM24D	CV1338	220VP T
CV1140	12MD6	CV1240	PZ1-35	CV1339	KT41
CV1141	GDT4C	CV1246	PM202	CV1340	KT45
CV1142	MR75	CV1250	4279A	CV1341	MSP4
CV1143	GT1A	CV1252	4212E	CV1342	QP25
CV1144	BT19	CV1253	E1161	CV1343	OA1065
CV1145	BT9/A	CV1255	E1232	CV1344	TP22
CV1146	BT9-B	CV1256	E1232	CV1345	TP25
CV1147	BT35	CV1257	E1155	CV1347	ECH35
CV1148	E1289	CV1259	ESU450	CV1349	RG5-500
CV1149	BT41	CV1260	ESU208	CV1350	TB3/750
CV1151	PM3	CV1261	RX3-120	CV1351	TB4/1250
CV1152	PM4DX	CV1262	GU1	CV1352	EM80
CV1153	PM254	CV1263	RG1-125	CV1353	OA91
CV1154	PM254	CV1264	U18	CV1354	OA85
CV1155	DEG	CV1265	U15	CV1355	ESU300
CV1156	DEQ	CV1266	U15	CV1356	U22
CV1158	PM14	CV1267	U4020	CV1357	SG250
CV1159	PM14	CV1268	5Y3G	CV1359	ME41
CV1160	104V	CV1279	MU2	CV1361	MZ05-20
CV1161	104V	CV1280	X64	CV1362	DTE25
CV1163	PD220A	CV1281	KTW61	CV1363	DET16
CV1164	ACSG	CV1282	MSP4	CV1364	807
CV1165	VMS4	CV1283	SP4	CV1365	4282BZ
CV1166	P220	CV1284	MS/Pen	CV1366	V248A
CV1167	PM24A	CV1285	6N7G	CV1367	V245
CV1168	PX4	CV1286	EL35	CV1368	V266
CV1169	VMP4G	CV1287	KT32	CV1369	4061A
CV1170	D41	CV1288	DET12	CV1370	PV1-35
CV1171	AT4	CV1289	1561	CV1371	PZ1-35
CV1172	VMP4G	CV1290	SU2150A	CV1372	4069A
CV1173	354V	CV1291	HVR2	CV1373	PY3-600
CV1174	KT42	CV1293	PT6	CV1374	807
CV1175	AP4	CV1296	MU14	CV1375	EF85
CV1176	AP4	CV1300	10D1	CV1376	EF80
CV1177	4D1	CV1301	6H6G	CV1377	GZ34
CV1178	DA30	CV1302	D42	CV1379	20K
CV1179	ML4	CV1303	PM1HF	CV1380	20K
CV1180	V312	CV1304	LP2	CV1382	ACR10
CV1181	KT41	CV1305	4D1	CV1384	41DS
CV1182	MHD4	CV1306	HL23DD	CV1385	E4504/B/16
CV1183	W42	CV1307	PM1LF	CV1386	ACR3
CV1184	A373	CV1308	TDD2A	CV1387	ACR4
CV1186	F66	CV1309	4019B	CV1388	ACR5
CV1187	D41	CV1310	KC1	CV1389	ACR6
CV1188	N43	CV1311	B406	CV1390	ECR35
CV1189	AC6Pen	CV1312	220RC	CV1391	E4504/E/16
CV1190	ACP4	CV1313	220LF	CV1392	ECR30
CV1191	KTZ41	CV1314	DL510	CV1393	ACR17
CV1192	Z62	CV1316	4021B	CV1394	ACR18
CV1193	X65	CV1317	S625	CV1396	ECR30

SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT
CV1397	E4504/M/16	CV1470	3P/270B	CV1569	R3
CV1400	C1C	CV1471	4049A	CV1570	EK32
CV1401	CL33	CV1472	CMG22	CV1571	VT58A
CV1402	CY31	CV1473	CMG25	CV1572	807
CV1403	DD41	CV1474	CE20	CV1573	4074B
CV1404	EF36	CV1475	M507	CV1574	SP41
CV1405	E1199	CV1476	M507	CV1575	VU71A
CV1406	HL41	CV1477	M507	CV1576	KT38
CV1407	Pen45	CV1478	M501	CV1577	KT44
CV1408	P41	CV1479	M501	CV1578	EF50
CV1409	SP2(Selected)	CV1480	M501	CV1579	954
CV1410	TH2	CV1481	M501	CV1580	E1235
CV1411	TH41	CV1482	M501	CV1581	ECH35
CV1412	TV4	CV1483	M519	CV1582	S130
CV1413	UU6	CV1484	M519	CV1583	E1024
CV1414	VP41	CV1485	M519	CV1584	41MTL
CV1415	4011A	CV1486	M519	CV1585	T41
CV1416	3B/151A	CV1495	M528	CV1586	HL23
CV1417	ES85	CV1496	M528	CV1587	ECR35
CV1418	10D1	CV1497	M528	CV1588	ECR30
CV1419	11D3	CV1498	M528	CV1592	E4504/C/16
CV1420	4078A	CV1499	M528	CV1596	09D
CV1421	XP1.5	CV1500	M528	CV1597	E4103/B/4
CV1422	3D/10A	CV1501	E1192	CV1598	41DS
CV1423	9D2	CV1502	KT32	CV1599	SC13C
CV1424	20A1	CV1503	KT33C	CV1600	CAT1
CV1425	7D5	CV1504	V1901	CV1601	CAR1
CV1426	EK2	CV1505	MH41	CV1602	CAR4
CV1427	EF9	CV1506	ESP450	CV1603	4104A
CV1428	EBC3	CV1507	V1507	CV1604	SS1971
CV1429	EL2	CV1508	V1913	CV1605	4013C
CV1430	ACSP3	CV1510	E1242	CV1606	CAT2
CV1431	ACT16	CV1515	MX1	CV1607	0C2.5
CV1432	CMG8	CV1516	PMD6	CV1608	U4
CV1433	EC31	CV1517	E4504/C/16	CV1609	SW7
CV1434	EM4	CV1518	09D	CV1610	MT4
CV1435	GU2	CV1519	V1042	CV1611	MR4
CV1436	HL2	CV1521	E4412/M/9	CV1612	VT9B
CV1437	E1143	CV1522	E413/B/4	CV1614	ES1500A
CV1438	KT61	CV1525	E4205/C/7	CV1615	ESU1500
CV1439	MT9F	CV1526	3EG1	CV1618	ES250M
CV1440	MT9L	CV1527	VLS492AG	CV1619	4212E
CV1441	MT12A	CV1529	E4412/E/9	CV1620	DET6
CV1442	MT14	CV1530	6LY1	CV1621	ESW501
CV1443	R1	CV1535	EZ80	CV1622	4052A
CV1444	42SPT	CV1536	1608ABA	CV1623	RG1-125
CV1445	4012A	CV1537	3ACP2	CV1624	P21-75
CV1446	4017B	CV1538	5J32	CV1625	RG3-250
CV1447	4030D	CV1539	D15	CV1626	RG1-240A
CV1448	4043C	CV1540	33B/152M	CV1627	5D/100A
CV1449	4064B	CV1543	12MD6	CV1628	GU8
CV1450	4228A	CV1546	12MD6	CV1629	RG3-1250A
CV1451	3274A	CV1548	41DS	CV1630	5C/450A
CV1452	4300A	CV1550	VT1A	CV1632	1N82
CV1453	4378	CV1551	VT1C	CV1633	3V4
CV1454	225DU	CV1552	VX3B	CV1634	XB2
CV1455	41IU	CV1553	VT4B	CV1635	5A/163K
CV1456	Pen383	CV1554	VT5B	CV1636	LS5
CV1457	VP133	CV1555	VU6A	CV1637	LS5
CV1458	41MP	CV1557	VT9B	CV1638	4101D
CV1459	MU2	CV1558	VT10D	CV1639	4101E
CV1460	X41	CV1559	VR12C	CV1640	4102D
CV1461	U22	CV1560	VR12F	CV1641	4102E
CV1462	A915	CV1561	VT12B	CV1642	DER
CV1463	CBL31	CV1562	VT13C	CV1643	E132
CV1464	EF39	CV1563	VR14A	CV1644	E153
CV1465	T250	CV1564	VU16A	CV1645	E133
CV1466	P57	CV1565	230XP	CV1646	E1453
CV1467	PY3-600	CV1566	VR24B	CV1647	LS5B
CV1468	SP4	CV1567	2C25	CV1648	4205E
CV1469	Z22	CV1568	4062A	CV1649	6C5

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CV1650	LS5A	CV1722	A901	CV1795	723A/B
CV1651	G455B	CV1723	V257	CV1796	DW4/350
CV1652	P220A	CV1724	5A/102D	CV1797	4081A
CV1653	3A/108A	CV1725	4328D	CV1798	2051
CV1654	210LF	CV1726	5A/105A	CV1799	350B
CV1655	3A/107B	CV1727	Z22	CV1800	1A7G
CV1656	LS8	CV1728	WE262B	CV1801	GS118
CV1657	4020B	CV1729	KTW62	CV1802	1A7GT
CV1658	LS9B	CV1730	KT66	CV1803	1C5G
CV1659	4022B	CV1731	S130	CV1804	EAC91
CV1660	LS7	CV1732	ML4	CV1805	DL35
CV1661	DL	CV1733	4108AG	CV1806	1D5GT
CV1662	P215	CV1734	3Q/213E	CV1807	2J31
CV1663	4021B	CV1735	DC2P	CV1808	2J32
CV1664	B406	CV1737	MW6-2	CV1809	2J33
CV1665	DH	CV1738	R5161	CV1810	3J34
CV1666	P610	CV1739	GC10/4B	CV1811	1D8GT
CV1667	LS5X	CV1740	GS12C	CV1812	1E7GT
CV1668	E420	CV1741	EL34	CV1813	2DP1
CV1669	P625	CV1742	BK44	CV1814	5LP1
CV1670	HL1320	CV1743	BS64	CV1815	6Q5G
CV1671	4021A	CV1744	15L01A	CV1816	6Y3G
CV1672	Pen36C	CV1745	62BT	CV1817	1G4GT
CV1673	PM2HL	CV1746	30C12P1	CV1818	1H5GT
CV1674	AC/S2/Pen	CV1747	M505	CV1819	6P5GT
CV1675	N43	CV1748	TTR31MC	CV1820	1H5GT
CV1676	LS8A	CV1749	205D	CV1821	1N5G
CV1677	MS4B	CV1750	33A/100A	CV1822	2J48
CV1678	HLA2	CV1751	34	CV1823	1N5GT
CV1679	DA30	CV1752	35	CV1824	1Q5G
CV1680	PM202	CV1753	35A5LT	CV1825	KT45
CV1681	TSP4	CV1754	35TG	CV1826	1Q5GT
CV1683	MKT4	CV1755	1626	CV1827	M510
CV1684	APP4C	CV1756	1629	CV1828	M512
CV1685	APP4C	CV1757	9001	CV1829	1T5GT
CV1686	D418	CV1758	1L4	CV1830	1B3GT
CV1687	D418	CV1759	2C26A	CV1831	2A3
CV1688	4033L	CV1760	2J26	CV1832	0A2
CV1689	PA1	CV1761	3FP7	CV1833	0B2
CV1690	9A1	CV1762	6AK6	CV1834	2A5
CV1691	DDL4	CV1763	6J4	CV1835	3B28
CV1692	AC/P	CV1764	CE2	CV1836	4B26
CV1693	PP3/250	CV1765	5664	CV1837	2B7
CV1694	3A/144A	CV1766	CX25	CV1838	QQZ04-15
CV1695	DDL13	CV1768	707B	CV1839	6F13
CV1696	B21	CV1769	2A6	CV1841	BS52
CV1697	X41	CV1770	7A4	CV1842	2G
CV1698	A819	CV1771	39/44	CV1843	2Y2
CV1699	SP41	CV1772	47	CV1844	GS3/B
CV1700	SP41	CV1773	82	CV1846	5T4
CV1701	XL0	CV1774	112A/12A	CV1847	19H4
CV1702	XP	CV1775	36	CV1848	20A2
CV1703	XW	CV1776	6D7	CV1849	5W4
CV1704	57	CV1777	7C7	CV1850	6L19
CV1705	58	CV1778	101D	CV1851	5X4G
CV1706	2B7	CV1779	102D	CV1852	5X4
CV1707	2A5	CV1780	30TWIN	CV1853	6P25
CV1708	80	CV1781	310B	CV1854	5Y3G
CV1709	6D6	CV1782	340A	CV1855	UU9
CV1710	6C6	CV1783	9JP1	CV1856	5Y3GT
CV1711	6B7	CV1784	6AK7	CV1857	5Y4G
CV1712	42	CV1785	1N26	CV1858	BS62
CV1713	EF8	CV1786	2K33	CV1859	BS4A
CV1714	EF9	CV1787	4C35	CV1860	30D5
CV1715	EBC3	CV1788	3J31	CV1861	5Z3
CV1716	E1541	CV1789	5FP14	CV1862	6AQ5
CV1717	4307A	CV1790	7Z4	CV1863	5Z4G
CV1718	AC/TP	CV1791	5JP1	CV1864	5Z4
CV1719	U22	CV1792	1960	CV1865	EC81
CV1720	XL1.5	CV1793	724B	CV1866	M503
CV1721	XP1.5	CV1794	959	CV1867	6A6

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CV1868	5T01A	CV1946	6K8GT	CV2022	6BW6
CV1869	12T01A	CV1947	6L6G	CV2023	9D6
CV1870	6A7	CV1948	6L6	CV2024	6BE6
CV1871	K307	CV1949	6D4	CV2025	EF91
CV1873	6AB7	CV1950	6L7G	CV2026	6BA6
CV1876	1852	CV1951	6L7	CV2029	G180/2G
CV1878	6AD7G	CV1952	VCRX267	CV2101	DF72
CV1879	HP4101	CV1953	6N6G	CV2102	DL75
CV1880	7BM1A	CV1954	6N6	CV2103	DF73
CV1881	VX4144	CV1955	EF91	CV2104	DAF70
CV1882	6AG7	CV1956	6N7G	CV2105	DL70
CV1883	4H/180E	CV1957	6N7	CV2106	DL66
CV1884	33A/158M	CV1958	6N7GT	CV2107	DF66
CV1885	6B5	CV1959	50C5	CV2108	9M06A
CV1886	EC80	CV1960	6R6G	CV2109	VX4099
CV1887	6B6	CV1961	12AU6	CV2110	BT83
CV1888	EC81	CV1962	6R7G	CV2115	U41
CV1889	TYS4-500	CV1963	6R7	CV2116	VX5029
CV1891	6B7	CV1964	6R7GT	CV2124	BK24
CV1892	2K28	CV1965	ET30	CV2125	BD78
CV1893	6B8G	CV1966	6SA7G	CV2126	3V/420B
CV1894	6B8	CV1967	6SA7GT/G	CV2127	6CH6
CV1895	STV/70/60	CV1968	CWS24A	CV2128	6AJ8
CV1896	6C8G	CV1969	6SC7	CV2129	5763
CV1897	4J34	CV1970	6SC7GT	CV2130	TT16
CV1898	4J35	CV1971	1T4	CV2131	6156
CV1899	6L18	CV1972	6SF5	CV2132	90AV
CV1900	6D6	CV1973	6SF5GT	CV2133	90CG
CV1901	6F11	CV1974	6S7G	CV2134	90CV
CV1902	6D8G	CV1975	6S7	CV2135	8D5
CV1903	592	CV1976	MV6-5	CV2136	6BW6 ←
CV1904	CAA322	CV1977	UL41	CV2137	E4504/M/16
CV1905	4-65A	CV1978	6SG7	CV2138	GM4
CV1906	6E5	CV1979	61BT	CV2139	EHM2
CV1907	CS2-C	CV1980	185BT	CV2140	B6
CV1908	6F5G	CV1981	6SK7	CV2141	B6E
CV1909	6F5	CV1982	6SK7GT	CV2142	B12E
CV1910	6F5GT	CV1984	6SC7	CV2143	B24
CV1911	6F6G	CV1985	6SL7GT	CV2144	B24E
CV1912	6F6	CV1986	6SN7	CV2145	M6
CV1913	GS44X	CV1988	6SN7GT	CV2146	DM6
CV1914	4J31	CV1989	SD6	CV2147	G24H
CV1915	6F7	CV1990	6SQ7	CV2148	GM5B
CV1916	4J33	CV1991	6SQ7GT	CV2149	GM1B
CV1917	6F8G	CV1992	1267	CV2150	MX103
CV1918	6F8	CV1993	6SS7	CV2151	MX105
CV1919	6F14	CV1995	6ST7G	CV2152	MX107
CV1920	6LD20	CV1996	6ST7	CV2153	MX108
CV1921	U24	CV1997	VCRX307	CV2154	S1M2
CV1923	TTR31MR	CV1999	1V	CV2155	S1M5
CV1924	TY2-125	CV2000	5A/159M	CV2158	VX3166
CV1926	6G6G	CV2001	EF91	CV2159	BR153
CV1927	B142	CV2002	6AM5	CV2160	A207
CV1928	12BA6	CV2003	6AM5	CV2161	K301
CV1929	6H6G	CV2004	6AL5	CV2162	12LO1A
CV1930	6H6	CV2005	6AL5	CV2163	ACT28
CV1931	6H6GT	CV2006	EF55	CV2164	K302
CV1932	6J5G	CV2007	12AU7	CV2166	4J50
CV1933	6J5	CV2008	A1714	CV2167	VX4080
CV1934	6J5GT	CV2009	6AQ4	CV2171	A2087
CV1935	6J7G	CV2010	6J6	CV2172	DC80
CV1936	6J7	CV2011	12AX7	CV2173	G10H
CV1937	6J7GT	CV2012	85A2	CV2174	G240/2D
CV1938	6K6G	CV2013	6CH6	CV2175	DG7-5
CV1939	37X50	CV2014	6062	CV2179	E2134
CV1940	6K6GT	CV2015	DDR2	CV2180	19H4
CV1941	6K7G	CV2016	12AT7	CV2181	BS104
CV1942	6K7	CV2017	VX3098	CV2183	X661
CV1943	6K7GT	CV2018	95A1	CV2184	VCRX298
CV1944	6K8G	CV2019	150B3	CV2185	88D
CV1945	6K8	CV2020	6AK5	CV2186	VX4073

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CV2187	Z239/1G	CV2266	CC3L	CV2346	VX5028
CV2188	W7/2D	CV2267	F/6063	CV2347	5B/258M
CV2189	V240C/2K	CV2268	F/6064	CV2348	5889
CV2190	V233A/1K	CV2269	ME1401	CV2349	EN30
CV2191	DG13/2	CV2270	90AG	CV2350	VX9005
CV2192	9MW5AX	CV2271	GC10B	CV2352	DG16-22
CV2193	89D	CV2272	VCRX212	CV2353	R6J010
CV2194	G400/1K	CV2273	K312	CV2354	R6015
CV2195	EF91	CV2274	BS114	CV2358	W7/1D
CV2196	VX3078	CV2275	DC70	CV2360	5A6
CV2197	E1024	CV2276	Z319	CV2361	DL69
CV2198	VX9031	CV2277	13E1	CV2362	M525
CV2199	GC10A	CV2278	VCRX353	CV2363	M525
CV2200	VX3098	CV2280	3EG1	CV2364	M525
CV2201	TD4.5-10	CV2281	M537	CV2365	M525
CV2202	XE2	CV2282	K308	CV2366	MS25
CV2203	GHT1	CV2283	VX7069	CV2367	M525
CV2204	TD03-10F	CV2284	4J50	CV2368	M525
CV2205	E4103/E/4	CV2285	VX3146	CV2369	AA76
CV2206	EY70	CV2286	E4412/E/9	CV2370	3S4
CV2207	VX3147	CV2287	G12H	CV2371	DF61
CV2208	G50/1G	CV2288	DL66	CV2372	MF22-75
CV2209	6F33Special	CV2289	U37	CV2373	M502A
CV2210	5544	CV2290	GEX36	CV2374	GD60
CV2211	408CAHA	CV2291	1909A	CV2375	GD100
CV2212	13D3	CV2292	VCRX173	CV2376	M521
CV2213	NT2	CV2293	XB-1	CV2377	13E1
CV2214	3B/240M	CV2294	VX9046	CV2378	TRP4
CV2215	5545	CV2295	3E29	CV2379	TRP5
CV2216	30E8/P1	CV2296	NSP2	CV2380	MA G8
CV2217	6K25	CV2297	VX3154	CV2381	N1034
CV2218	6157	CV2298	E1024	CV2382	EL822
CV2220	5B/257M	CV2299	DL73	CV2383	BR191
CV2221	V235A-1K	CV2300	3A4(Selected)	CV2384	ZS10C
CV2222	VCRX312	CV2301	E4412/C/9	CV2385	S11E12
CV2223	G10/241/E	CV2302	1CP1	CV2386	VX9022
CV2224	G1/371K	CV2303	VX3153	CV2387	VX8084
CV2225	150B2	CV2304	K324	CV2388	VCRX397A
CV2229	M502A	CV2305	VCRX351	CV2389	CXT1
CV2230	VCRX361	CV2306	BS122	CV2390	3A4
CV2231	E2266	CV2307	BS120	CV2391	VX3136
CV2232	DDX52	CV2308	BS116	CV2392	VX3171
CV2233	G5H	CV2309	BS118	CV2393	BA9-20
CV2234	X662	CV2310	GEX64	CV2394	DA42
CV2235	EY84	CV2311	VX9076	CV2395	TD03-10
CV2236	Z800U	CV2312	VX9075	CV2396	1B23
CV2237	1AD4	CV2313	VX4122	CV2397	DET29
CV2238	5672	CV2314	MP31-55	CV2398	VX3518
CV2239	5676	CV2315	C12B	CV2399	AX228
CV2240	3B4	CV2316	6097B	CV2400	CXT2
CV2241	DY70	CV2317	6097C	CV2411	VX8194
CV2242	VX7052	CV2318	A2272	CV2412	M253
CV2243	PSG8	CV2319	VX4061	CV2413	SX642
CV2244	VCRX258	CV2320	VX4061	CV2414	XC305/1
CV2245	3J/160E	CV2321	GD86W/S	CV2415	VCRX225
CV2246	DDX52	CV2322	BR161	CV2416	C1133
CV2247	G5H	CV2323	BR179	CV2418	GHT2
CV2248	VX9115	CV2324	CR176	CV2419	3EG1
CV2249	VX9112	CV2325	Z502S	CV2420	JPT9-01
CV2250	VX9054	CV2326	VX3143	CV2421	JPT9-02
CV2251	VX9113	CV2327	MX103	CV2422	VX7104
CV2252	VX9114	CV2328	MF31-95	CV2424	M549
CV2253	ME1501	CV2329	4004B	CV2425	M539
CV2254	5678	CV2330	VX9106	CV2426	M529
CV2255	Z801U	CV2331	DL64	CV2428	25110
CV2256	X662	CV2332	VCRX359	CV2429	TRP6
CV2257	UD166C	CV2338	F2	CV2430	TRP3
CV2258	CS4B	CV2340	VX9151	CV2431	DG7-32
CV2259	DL68	CV2341	VX3138	CV2432	6205
CV2260	DF64	CV2342	VCRX364	CV2433	DF63
CV2263	K305	CV2343	K335	CV2434	6779

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CV2435	1601M	CV2551	100TH	CV2629	350A
CV2447	X1	CV2552	100TH	CV2630	351A
CV2448	7182	CV2553	101F	CV2631	352A
CV2449	7182	CV2554	111A	CV2632	354A
CV2450	7182	CV2556	117L7GT	CV2633	262A
CV2451	7182	CV2557	117N7GT	CV2634	367
CV2452	7182	CV2558	117Z6GT/G	CV2636	375A
CV2453	A2521	CV2560	121A	CV2637	388A
CV2455	VX138	CV2561	122A	CV2638	393A
CV2465	5B/251M	CV2562	164V	CV2639	394A
CV2466	QQV02-6	CV2563	204A	CV2640	405BU
CV2469	VCRX407	CV2565	2050	CV2642	417A
CV2473	M538A	CV2566	205E	CV2643	2C40
CV2480	VX1002	CV2567	205F	CV2644	460BU
CV2484	VX1009MK5	CV2569	210DET	CV2645	506BU
CV2486	XC18	CV2570	210HF	CV2647	532
CV2487	QV2-250B	CV2571	210HL	CV2648	532A
CV2492	E88CC	CV2572	450TH	CV2650	12A Y7
CV2493	E88CC/01	CV2573	5651	CV2651	707B
CV2494	VA2018	CV2574	210VPA	CV2652	709A
CV2497	MG13-11	CV2575	5670	CV2653	714A Y
CV2498	DP16-22	CV2576	211SP	CV2654	715A
CV2499	VX7147	CV2577	212E	CV2655	715B
CV2500	35Z4GT	CV2578	5587	CV2656	724A
CV2501	40	CV2579	218	CV2657	800
CV2502	41FP	CV2580	220C	CV2658	806
CV2503	41MH	CV2581	2200T	CV2659	3D21A
CV2504	41MHL	CV2582	220VS	CV2660	809
CV2505	41MPG	CV2584	231D	CV2661	812
CV2506	41MPT	CV2585	39	CV2662	5639
CV2507	1U4	CV2586	240B	CV2663	815
CV2508	41STH	CV2587	242C	CV2664	822
CV2509	41FP	CV2588	244A	CV2665	825
CV2510	1Z2	CV2589	250TH	CV2666	829B
CV2511	420T	CV2591	RK38	CV2668	846
CV2512	420TDD	CV2592	256B	CV2669	849
CV2514	43	CV2593	257A	CV2670	849H
CV2516	2C39A	CV2594	258B	CV2671	851
CV2517	2E30	CV2595	259A	CV2672	852
CV2518	4B32	CV2597	262A	CV2673	857B
CV2519	4X150A	CV2598	264A	CV2674	863
CV2520	5C22	CV2599	264C	CV2675	864
CV2521	6AH6	CV2600	267B	CV2676	865
CV2522	6AS6	CV2601	271A	CV2678	5799
CV2523	6AS7G	CV2602	272A	CV2679	866JR
CV2524	6AU6	CV2603	274A	CV2680	868
CV2526	6AV6	CV2604	275A	CV2683	878
CV2527	6BA7	CV2605	282A	CV2685	880
CV2528	45DS	CV2606	284	CV2686	889
CV2529	45IU	CV2607	284D	CV2687	889R
CV2530	45Z5GT	CV2608	300A	CV2688	891R
CV2531	46	CV2609	300B	CV2689	893R
CV2532	49	CV2610	3030	CV2690	904V
CV2533	50	CV2611	304TH	CV2691	913
CV2534	50L6G	CV2612	307A	CV2692	918
CV2535	53	CV2613	310A	CV2693	929
CV2536	53A	CV2614	311A	CV2694	930
CV2537	55	CV2615	313C	CV2695	931
CV2538	59	CV2616	314A	CV2696	931A
CV2539	61P	CV2617	323A	CV2697	935
CV2540	63D	CV2618	327A	CV2698	5896
CV2541	71A	CV2619	328A	CV2699	6088
CV2542	72	CV2620	329A	CV2700	957
CV2543	73	CV2621	330B	CV2701	958A
CV2544	78	CV2622	331A	CV2704	7E5
CV2545	79	CV2623	332A	CV2705	1203
CV2546	81	CV2624	337A	CV2706	7C4
CV2547	83V	CV2625	338A	CV2707	1231
CV2548	84	CV2626	346A	CV2709	1R4
CV2549	85	CV2627	349A	CV2710	3D6
CV2550	100T	CV2628	349B	CV2711	1500T

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CV2712	1609	CV2800	A40	CV2875	CL4
CV2713	1610	CV2801	A40/N3	CV2876	2D21W
CV2714	1614	CV2803	Z915	CV2877	6AK5W
CV2715	1630	CV2804	A915A	CV2878	CRT1
CV2716	6SC7(Selected)	CV2805	A924	CV2879	CRT2
CV2717	1729	CV2806	AC2/HC	CV2880	CRT4/1
CV2718	1876	CV2807	AC2HL	CV2882	6AL5W
CV2719	1924	CV2808	AC2Pen	CV2883	6AQ5W
CV2720	ESU111	CV2809	AC5Pen	CV2884	6AS6
CV2721	6CJ6	CV2810	E4504/M/16	CV2885	54NCP11
CV2722	3025	CV2811	AC/HL	CV2886	M2H
CV2723	869B	CV2812	AC/HL	CV2887	DAC1
CV2725	3209	CV2813	AC/HLDD	CV2888	EL31
CV2726	6CK6	CV2814	5D21	CV2889	DD620
CV2727	26D	CV2815	ACP	CV2890	DDT
CV2728	29D	CV2816	3JP12	CV2891	DE5
CV2729	E80F	CV2817	6L6GA	CV2892	DE5B
CV2730	5800	CV2818	AC/PT8	CV2895	DET1SW
CV2731	63DS	CV2819	AC/S	CV2896	52CG
CV2733	3951	CV2820	AC/SP1	CV2897	C211QX/2
CV2734	4033A	CV2821	ECC33	CV2898	DET8
CV2735	4015A	CV2822	AC/SG	CV2899	DET9
CV2736	3C24	CV2823	AC/SP3	CV2900	DET10
CV2738	RG1-240	CV2824	AC/SPen	CV2901	EF86
CV2742	114	CV2825	ACT6	CV2902	GX402
CV2743	4033AF	CV2826	1B63A	CV2903	0A2
CV2744	4J34(Selected)	CV2827	ACT10	CV2905	3J/170E
CV2745	4050AG	CV2829	1N34	CV2907	DF1
CV2746	4064A	CV2830	AC/TH1	CV2908	3J/260E
CV2747	6U5G	CV2831	2C51	CV2909	DH73M
CV2748	5Z4GT	CV2832	AC/VP2	CV2910	DK1
CV2749	4081	CV2833	AF3	CV2911	DL2
CV2750	89J	CV2834	AGT1	CV2912	DL63
CV2751	4096AB	CV2835	5R4WGY	CV2913	DLS1
CV2752	4PR60A	CV2836	APP4G	CV2914	1B40
CV2753	5684	CV2837	APP4G	CV2916	1N25
CV2754	5685	CV2838	AR	CV2918	1N28
CV2755	4251AX	CV2839	AR300	CV2919	1N43
CV2756	4260A	CV2840	5UP7	CV2920	E1148
CV2759	4304	CV2841	ARP12T	CV2923	1N69
CV2760	4304B	CV2842	6C4W	CV2924	1N70
CV2761	4304BB	CV2843	6J6W	CV2925	EBF2
CV2762	4316A	CV2844	6X4W	CV2926	EBL31
CV2764	4606	CV2845	LS5	CV2927	EC50
CV2765	4673	CV2846	LS5B	CV2928	1N81
CV2766	4687	CV2847	5704	CV2929	ECH3
CV2767	4690	CV2848	CK707	CV2930	ECH33
CV2768	8003	CV2849	K1051	CV2931	2B22
CV2769	9006	CV2850	AT200A	CV2932	2C42
CV2770	13077	CV2851	3D22	CV2933	2C46
CV2772	23043	CV2852	2J56	CV2934	3BP1A
CV2773	68503	CV2853	RZ1-250	CV2935	3JP1
CV2774	68504	CV2854	6AN5	CV2936	4B22
CV2775	68506	CV2855	6K4	CV2937	6AQ6
CV2776	68510	CV2856	1N23B	CV2938	EL33
CV2777	4B28	CV2857	1N23BM	CV2939	6F4
CV2778	2J21A	CV2858	3B24W	CV2940	EL36
CV2779	4B36	CV2859	5846	CV2941	EL50
CV2786	26J	CV2860	AZ1	CV2942	EM1
CV2788	NT13	CV2861	AZ2	CV2943	ESU76
CV2789	9LP7	CV2862	AZ31	CV2944	ESU1500
CV2790	C1K	CV2864	B21	CV2945	ESU75
CV2791	K322	CV2865	B30	CV2946	ESU150
CV2792	2K25	CV2866	2C51W	CV2947	ESU300
CV2793	2J50	CV2867	BU100/6	CV2948	ESU450
CV2794	C10SS/2G	CV2868	C1A	CV2949	F123A
CV2795	1L4	CV2869	3JP7	CV2950	129B
CV2796	6L6WGB	CV2870	CC3D	CV2952	FA13
CV2797	QQV06-40A	CV2871	CAT6	CV2953	FA14
CV2798	QQV03-10	CV2872	CAT9	CV2954	FC2A
CV2799	QQV03-20	CV2874	1005	CV2955	FC4

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CV2956	FC13C	CV3531	L2	CV3609	5517
CV2957	FG17	CV3532	L21	CV3610	5663
CV2958	FG278	CV3533	L22DD	CV3611	5586
CV2959	3B21	CV3534	L30	CV3612	5686
CV2960	FP54	CV3535	C14HM	CV3613	6AR6
CV2961	1N54A	CV3536	LS408A	CV3614	6BL6
CV2962	1N38A	CV3537	L600	CV3615	6BM6
CV2963	4-125A	CV3538	L610	CV3616	6BN6
CV2964	4-250A	CV3539	6024	CV3618	6L6WGA
CV2965	RL7076-2B	CV3540	HT415	CV3619	6SJ7WGT
CV2966	EY86	CV3541	LS6A	CV3620	P220
CV2967	8020	CV3542	LS532	CV3621	P410
CV2968	7F8	CV3543	4D32	CV3622	P610
CV2969	GT1	CV3544	SD432	CV3623	PA40
CV2970	5656	CV3545	5939	CV3624	PE7B
CV2971	5675	CV3546	MHD4	CV3625	PE8
CV2972	5876	CV3547	MH14	CV3626	PenB4
CV2973	GU7	CV3548	1B24A	CV3627	6SN7WGT
CV2974	1N72	CV3549	1B38	CV3628	1B35A
CV2975	6BQ5	CV3550	1B41	CV3629	6130
CV2976	NE	CV3551	1N38	CV3630	Pen44
CV2977	H2	CV3552	MPT4K	CV3631	Pen45DD
CV2978	H12	CV3553	MS4B	CV3632	6131
CV2979	H30	CV3554	MPT42	CV3633	Pen231
CV2980	DM70	CV3555	1Q22	CV3634	Pen428
CV2981	H410	CV3557	MR300	CV3635	Pen1340
CV2982	H610	CV3558	MR300/E	CV3636	Pen1346
CV2983	DL94	CV3559	2C53	CV3637	7BP7A
CV2984	6080	CV3560	2J51	CV3638	PenA4
CV2985	HD24	CV3561	MS/Pen	CV3639	7UP7
CV2986	HD203A	CV3562	MSP41	CV3640	PJ8
CV2987	HF100	CV3563	MT11SW	CV3641	PM1HL
CV2988	HF200	CV3564	MT12	CV3642	PM1LF
CV2989	HK354E	CV3565	ME41	CV3643	PM2A
CV2990	6136	CV3567	MU1	CV3644	726C
CV2991	HL2	CV3569	2J42	CV3645	PM2DX
CV2992	6106	CV3570	MU4250	CV3646	845W
CV2993	KU25	CV3571	MVSPen	CV3647	PM22A
CV2994	HL23	CV3572	MVSPenB	CV3648	PM24E
CV2995	HL23DD	CV3573	MZ05-20	CV3649	PM22
CV2996	HL41DD	CV3574	MZ11/76	CV3650	12AY7
CV2997	HL63	CV3575	3B26	CV3651	12SH7GT
CV2998	HL133	CV3576	MX40	CV3652	PT5
CV2999	HL133DD	CV3577	25A7GT	CV3653	PT6
CV3500	HL210	CV3578	PM22D	CV3654	PT11
CV3501	HL610	CV3579	PT5E	CV3655	12SP7
CV3502	HL1320	CV3580	304TL	CV3656	PT425
CV3503	HLDD1320	CV3581	V1501	CV3657	PV05-15
CV3506	HY615	CV3582	VP4B	CV3658	PV1-35
CV3508	6201	CV3583	5HP1	CV3659	M510A
CV3509	1N31	CV3584	21/2	CV3660	M510A
CV3510	4B31	CV3586	471A	CV3661	M501A
CV3511	371B	CV3587	705A	CV3662	M501A
CV3512	5696	CV3588	706A	CV3666	12SW7
CV3514	K8140824	CV3589	707A/B	CV3667	RG1-250
CV3515	KB2	CV3590	708A	CV3668	12SY7
CV3516	KK2	CV3592	UX6653	CV3669	2K48
CV3517	5933	CV3593	713A	CV3670	RG4-1000
CV3518	5948/1754	CV3594	717A	CV3671	RK25
CV3519	KT30	CV3595	721A	CV3672	RK28
CV3520	KT31	CV3596	722A	CV3673	RK28A
CV3521	5949/1907	CV3597	726B	CV3674	RK31
CV3522	6079	CV3599	829B	CV3675	9004
CV3523	6146	CV3600	902P1	CV3676	2J42
CV3524	G1/235G	CV3601	7193	CV3677	RK47
CV3525	1N21C	CV3602	5J26	CV3678	2BP1
CV3526	EL85	CV3604	GL464	CV3679	RK49
CV3527	KTW73M	CV3605	GL464	CV3680	RK60
CV3528	M513	CV3606	5J29	CV3681	RK62
CV3529	KTZ41	CV3607	NP90	CV3683	RKR47
CV3530	KTZ73	CV3608	5J30	CV3685	QK283

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CV3686	QK284	CV3768	V503	CV3844	5J31
CV3687	2J49	CV3769	V877	CV3845	RS366
CV3688	2C33	CV3770	V955	CV3846	RS261
CV3689	3B29	CV3772	V970	CV3847	RS250
CV3690	RZ1-150	CV3773	V1010	CV3848	RS260
CV3691	S23	CV3774	V1020	CV3849	RS217
CV3692	S23	CV3775	V1021	CV3850	RS207
CV3693	10KP7	CV3776	V1023	CV3851	RS253
CV3694	S130A	CV3777	V1029	CV3852	RS285
CV3695	S215	CV3778	V1105	CV3853	RS15
CV3696	S215A	CV3779	4J26	CV3854	RS47
CV3697	12SX7GT	CV3780	4J27	CV3855	RS329
CV3698	S610	CV3781	4J28	CV3856	RS330
CV3699	5693	CV3782	4J29	CV3857	RS283A
CV3702	SG215	CV3783	4J30	CV3858	RS18
CV3703	SP4B	CV3784	5B/102A	CV3859	RV271A
CV3704	SP13C	CV3785	VMP4G	CV3860	RS282
CV3705	5691	CV3786	VMP4G	CV3861	RS281
CV3706	5796	CV3787	VP2	CV3862	RS55
CV3707	6AL7GT	CV3788	VP4	CV3863	RS289
CV3709	STV150/200	CV3789	5842	CV3864	RS389
CV3710	AR63	CV3790	VP13C	CV3865	RS288
CV3711	N78	CV3791	VP21	CV3866	RS203
CV3712	STV280/80A	CV3792	VP23	CV3867	RG44
CV3714	822Special	CV3793	VP24	CV3868	RSQ15/40
CV3715	SW5	CV3794	VP210	CV3869	RSQ15/5
CV3719	SW7	CV3795	VP215	CV3870	RGQ10/4D
CV3721	T4D	CV3796	VP1322	CV3871	RS254
CV3722	T20	CV3797	V944A	CV3872	RS255
CV3723	T41	CV3798	OA3	CV3873	RS566
CV3724	T200	CV3799	OB3	CV3874	ATR388
CV3725	GL446	CV3800	VS2	CV3875	KU54
CV3726	TDD2A	CV3802	VS24	CV3876	SAL39
CV3727	TDD4	CV3803	VS24K	CV3877	1B56
CV3729	1N47	CV3804	W21	CV3878	2-150D
CV3730	TMC15B	CV3805	W30K	CV3879	4-400A
CV3731	TMC16B	CV3806	W31	CV3880	4-1000A
CV3732	TMC20B	CV3808	6T4	CV3881	EB41
CV3733	3KP1	CV3809	807W	CV3882	EBC41
CV3734	6X5WGT	CV3810	WD30	CV3883	EAF42
CV3735	TP26	CV3812	1P31	CV3884	ECC40
CV3736	K1105P2	CV3813	8A	CV3885	EF40
CV3737	QK353	CV3815	3B22	CV3886	EF41
CV3738	VXR130	CV3816	X21	CV3887	EF42
CV3739	TX3-200	CV3817	X21	CV3888	ECH42
CV3740	TX5-400	CV3818	X22	CV3889	EL41
CV3741	TZ2-300	CV3819	X24	CV3890	EL42
CV3742	TZ20	CV3820	X24	CV3891	EZ40
CV3743	U5	CV3821	X31	CV3892	AZ41
CV3744	U6	CV3822	X31	CV3893	4X150G
CV3745	1B58	CV3823	X41	CV3894	6BF7
CV3746	U14	CV3824	X61	CV3895	5702
CV3747	U15	CV3825	X63	CV3896	5784
CV3748	2X2	CV3826	X65	CV3897	5787
CV3749	576	CV3827	12C8GT	CV3898	5829
CV3750	U22	CV3828	X66	CV3899	5932
CV3751	U21	CV3829	293A	CV3900	5963
CV3752	U30	CV3830	XH1.5	CV3901	6161
CV3753	U31	CV3831	XL2	CV3902	6002
CV3754	U50	CV3832	XP2	CV3903	QK338
CV3755	5755	CV3833	XSG2.0V	CV3904	2K41
CV3756	U600	CV3834	XW2	CV3905	5847
CV3758	UR3C	CV3835	Z21	CV3906	6117
CV3759	R2	CV3836	Z21	CV3907	720C
CV3760	UU5	CV3837	Z21	CV3908	6BH6
CV3761	UU7	CV3838	Z62	CV3909	6BJ6
CV3762	V120	CV3839	Z66	CV3912	1U5
CV3763	V123B	CV3840	TTR31MR	CV3915	8025A
CV3765	V226	CV3841	6F1	CV3916	5647
CV3766	V312	CV3842	5J29	CV3917	5703
CV3767	V339	CV3843	5J30	CV3918	5JP2A

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CV3919	U82	CV3992	HD6002	CV4069	F/6158
CV3920	A2196	CV3993	1N67A	CV4070	M8099
CV3921	A2244	CV3994	1V2	CV4073	SX641
CV3923	1N21B	CV3995	6CB6	CV4074	SX642
CV3924	6AC7W	CV3996	U709	CV4076	M8179
CV3925	TTR31MR	CV3997	JP9-15	CV4077	SX643
CV3926	7C23	CV3998	6888	CV4078	SX644
CV3927	12K8	CV3999	MW22/22	CV4079	A2293
CV3928	5636	CV4001	F/6063	CV4080	M8225
CV3929	5840	CV4002	F/6064	CV4085	M8195
CV3930	5718	CV4003	12AU7WA	CV4098	6AS6W
CV3931	5906	CV4004	6057	CV4100	0A2WA
CV3932	5977	CV4005	6X4WA	CV4101	0B2WA
CV3933	5783	CV4006	6059	CV4104	M8163
CV3934	1N34A	CV4007	6AL5W	CV4108	7308
CV3935	14A7	CV4008	6719	CV4116	UR45
CV3936	14S7	CV4009	6BA6W	CV4121	UR40/F
CV3937	14R7	CV4010	5654	CV4501	7432
CV3938	12CS7GT	CV4011	6AS6W	CV4502	7433
CV3939	6BM6A	CV4012	5750	CV4503	7434
CV3940	2C39	CV4013	5670	CV4504	7435
CV3941	3RP1	CV4014	6064	CV4506	7436
CV3942	5692	CV4015	6065	CV5001	601C
CV3943	5852	CV4016	5814	CV5002	1N23B
CV3944	2J30	CV4017	5751	CV5003	BU28/4
CV3945	2K45	CV4018	2D21W	CV5004	3JP2
CV3946	3WP1	CV4019	6AQ5W	CV5005	6110
CV3947	4J54	CV4020	0A2WA	CV5006	6021
CV3948	4J55	CV4021	3B24WA	CV5007	6112
CV3949	4J56	CV4022	6135	CV5008	6080WA
CV3950	4J57	CV4023	6AU6WA	CV5009	6203
CV3951	4J58	CV4024	12AT7WA	CV5010	5644
CV3952	4J59	CV4025	6AL5	CV5011	TH1657A
CV3953	7J78	CV4026	5R4WGA	CV5012	1N23C
CV3954	5CP7	CV4027	5Y3WGT A	CV5013	1N23CR
CV3955	5CP12	CV4028	0B2WA	CV5014	1N78
CV3956	719A	CV4029	5902	CV5015	1N53
CV3957	1258	CV4030	G75/3G	CV5016	1N32
CV3958	5657	CV4031	6J6WA	CV5017	450TL
CV3959	5FP7A	CV4032	6814A	CV5018	JP9-80
CV3960	5783	CV4033	F/6060	CV5019	QK387
CV3961	6111	CV4034	F/6067	CV5020	QK388
CV3963	559	CV4035	F/6057	CV5021	6V3A
CV3964	354	CV4036	F/8141	CV5022	CS31A
CV3965	2C36	CV4037	F/5750	CV5023	AFX234
CV3966	QK428	CV4038	VX3208	CV5024	MX-408/U
CV3967	1N63	CV4039	6062	CV5025	XB2
CV3968	3DP1A	CV4040	S6F17	CV5026	1N320
CV3969	577	CV4041	S6F17F	CV5027	XG1-2500
CV3970	5721	CV4042	S19G6F	CV5028	3V/390B
CV3971	89L	CV4043	6061	CV5029	6J4WA
CV3972	6095	CV4044	6443	CV5030	26Z5W
CV3973	6AC7Y	CV4045	F/6061	CV5031	M548
CV3974	6SA7Y	CV4046	44A/160M	CV5032	1X2A
CV3975	6236	CV4047	G400/2G	CV5033	3-14
CV3976	M509	CV4048	QS1212	CV5034	3JP11
CV3977	1N35	CV4049	F/5726	CV5035	DG13-34
CV3978	6AG7Y	CV4050	F/5654	CV5036	6AF4
CV3979	0D3W	CV4051	F/6158	CV5037	6BA6W
CV3980	12SR7GT	CV4052	QS1202	CV5038	6BC4
CV3981	G5S3	CV4053	QS1203	CV5039	6BL7
CV3982	M506	CV4054	M8142	CV5040	6BQ6
CV3983	12SW7GT	CV4055	6132	CV5041	6CL6
CV3984	1N21C	CV4056	F/6132	CV5042	12BH7
CV3985	6SL7WGT	CV4058	6C4WA	CV5043	811A
CV3986	6021	CV4059	M8097	CV5044	5836
CV3987	5644	CV4060	S11E12	CV5045	5837
CV3988	6442	CV4063	M8082	CV5046	5844
CV3989	6AN4	CV4066	M8190	CV5047	G7B
CV3990	2E26	CV4067	M8167	CV5048	V239C/1K
CV3991	4X150D	CV4068	6158	CV5049	V241C/1K

SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT
CV5050	212-G11A	CV5140	EA52	CV6007	XH3-045
CV5051	HD2016A	CV5144	PCL83	CV6008	24B1
CV5052	6AU7	CV5156	EF89	CV6072	JP8-02B
CV5053	6098CT	CV5157	DP13-2	CV6087	LA3-3B
CV5054	6390	CV5168	5BKP1	CV6094	DM160
CV5055	EM81	CV5171	DP7-5	CV6095	3AFP31
CV5056	A2094	CV5172	DK92	CV6097	A2792
CV5057	5702WA	CV5173	90C1	CV6103	VS10H
CV5058	5784WA	CV5192	PCC84	CV6114	JPT9-02E
CV5059	5829WA	CV5214	E90CC	CV6122	QY3-65
CV5060	Z759	CV5215	ECF80	CV6123	QZ06-20
CV5061	7YP2	CV5219	CR1100	CV6131	C1149-1
CV5062	5841	CV5233	EL32	CV6135	G400/2G
CV5063	1N70	CV5234	XR1-1600A	CV6136	DDT527
CV5064	1N38A	CV5235	2J52	CV6137	4CX250B
CV5065	6U8	CV5239	TY7-6000A	CV6142	K391/A
CV5066	BL25	CV5244	MB13-1	CV6143	8D/03L3M
CV5067	6SH7L	CV5247	XH8-100	CV7018	ZR11
CV5068	ES75H	CV5249	KS9-30	CV7019	ZR12
CV5069	6621	CV5269	DG7-6	CV7020	ZR14
CV5070	5FP11	CV5277	ET51	CV7021	RS20
CV5071	3J/195E	CV5278	Z520M	CV7022	RS20
CV5072	EZ81	CV5281	ECC84	CV7023	RS20
CV5073	6AM4	CV5282	AL13-36	CV7024	RS20
CV5074	6AF4A	CV5290	VS10G	CV7025	RS20
CV5075	622C	CV5293	W7/3G	CV7036	GJ4M
CV5076	1N198	CV5300	AL22-10	CV7037	GJ6M
CV5077	PL81	CV5302	DH7-91	CV7038	GJ3M
CV5078	XC17	CV5304	6463	CV7040	0A202
CV5079	5643	CV5311	M8248	CV7041	0A95
CV5080	EF37A	CV5331	ECC189	CV7042	GT41
CV5081	61SPT	CV5354	E188CC	CV7045	1S111
CV5082	M8234	CV5358	ECC88	CV7046	1S115
CV5083	QS75-20	CV5365	6BQ7A	CV7048	0A5
CV5084	30B1P3	CV5369	4LP1	CV7129	0CP71
CV5085	27M2	CV5397	EC157	CV8279	NT2
CV5086	6BS7	CV5401	N1031	CV8563	CX1140
CV5087	4EP7	CV5402	N1032	CV8730	TY6-5000B
CV5088	XC15	CV5412	DM160	CV8793	K3103
CV5089	L3040	CV5418	DG7-31	CV8973	4CX250B
CV5090	L3041	CV5425	I0G-4	CV8978	RUTS0045
CV5092	EF800	CV5430	2C39A	CV9088	5702WB
CV5093	EL803	CV5434	EM84	CV9089	7203
CV5094	EL86	CV5443	JPG9-02C	CV9094	6528
CV5095	GK2261	CV5458	TD03-10E	CV9122	4CX250R
CV5096	GK2401	CV5472	6922	CV9167	ECL82
CV5098	ZS21	CV5473	6939	NGT1	DPQ
CV5099	ZS22	CV5724	E80T	NGT2	GT1C
CV5100	GJ3M	CV5745	GZ33	NGT4	GT1A
CV5101	GJ5M	CV5754	TD04-20A	NGT121	T41
CV5102	GJ6M	CV5760	5BKP7	NGT128	GT1C
CV5103	ZS20B	CV5766	E182CC	NR15	PM3
CV5104	GEX541	CV5793	5ADP2	NR15A	PM4DX
CV5105	0C45	CV5808	E55L	NR16	PM254
CV5106	E1T	CV5809	E810F	NR16A	PM4DX
CV5107	KD63	CV5810	EF814	NR18	DEQ
CV5108	EFP60	CV5811	5CLP31	NR22	PM14
CV5109	GE10	CV5820	Z700U	NR23	PM14
CV5112	3A/167M	CV5830	EL360	NR26	MHL4
CV5113	5787WA	CV5831	EF183	NR27	104V
CV5114	6260B	CV5847	QQV07-50	NR27A	104V
CV5115	X79	CV5883	3AZP2	NR28	PM2
CV5116	3B/241M	CV5900	KS7-85A	NR31	MH4
CV5120	20CV	CV5905	EY81	NR35	PD220A
CV5121	6870	CV5911	V271C/3M	NR37	ACSG
CV5122	Z900T	CV5940	DP4-1	NR38	VMS4
CV5123	JP9-15D	CV5956	TD03-10	NR39	PM22A
CV5125	DP13-34	CV5957	XR1-12	NR40	PM24D
CV5131	DG4-1	CV5959	QY4-400	NR41	210VPT
CV5132	M8163	CV5962	TD03-10D	NR42	P220
CV5134	2J51A	CV5989	E80CC	NR43	PM24A

SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT
NR44	PX4	NU31	MU2	VR505	MH41
NR45	VMP4G	NU33	SU2150A	VS68	STV280/40
NR46	D41	NU33A	HVR2	VS69	STV280/80
NR47	PX25	NU34	HVR2	VS70	7475
NR48	EBC33	V177	EM31	VT1	203A
NR49	EF36	V1103	Y63	VT2	205B
NR50	AT4	VR18	2155G	VT4B/C	211
NR51	VMP4G	VR19	PM2	VT5	215A
NR52	354V	VR21	210LF	VT6	212A
NR53	KT42	VR22	220PA	VT7	WX12
NR54	AP4	VR27	210LF	VT8	UV204
NR54A	AP4	VR28	220VSG	VT17	860
NR55	4D1	VR32	220B	VT19	861
NR56	DA30	VR35	QP21	VT20	220P
NR57	ML4	VR37	MH4	VT22	204A
NR58	244V	VR38	MHL4	VT23	230XP
NR59	KT41	VR40	PX25	VT23A	230XP
NR60	H42	VR41	PM12M	VT24	864
NR61	W42	VR43	210PG	VT25	DET25
NR64	KTW62	VR44	210DDT	VT25A	10
NR65	MSP4	VR45	X56	VT26	22
NR66	D41	VR46	PT25H	VT27	30
NR67	6L7	VR47	TZ05-20	VT28	24
NR68	6Q7	VR49	210SPT	VT29	27
NR69	Y63	VR53	EF39	VT30	01A
NR70	MS/Pen	VR54	EB34	VT31	31
NR71	MS/PenT	VR55	EB3C3	VT33	33
NR72	N43	VR56	EF36	VT34	207
NR73	6N7	VR57	EK32	VT35	35/51
NR74	PV1-35	VR57A	EK32	VT36	36
NR75	ACP4	VR59	955	VT37	37
NR76	KTZ41	VR65	SP61	VT38	38
NR77	6L6	VR65A	SP41	VT39	869
NR78	6C5	VR66	P61	VT39A	869A
NR78A	L63	VR67	6J5	VT40	40
NR79	Z62	VR78	D1	VT41	851
NR80	E1148	VR82	220TH	VT42	872
NR81	6K7	VR83	210VPT	VT42A	872
NR82	X65	VR91	EF50	VT43	845
NR83	6J7	VR91A	EF50	VT44	32
NR84	20A1	VR92	EA50	VT45	X56
NR85	6F6	VR95	954	VT46	PT25H
NR86	KTW63	VR95A	954	VT46A	866A
NR87	AC5PenDD	VR99	X66	VT47	47
NR94	ACP4	VR99A	ECH35	VT48	41
NS1	STX280/80	VR100	KTW62	VT49	39/44
NS3	202	VR101	MHLD6	VT50	HL2
NS4	4713	VR102	BL63	VT51	Pen220A
NS5	304	VR105	ML6	VT52	EL32
NT18	D060	VR106	9D2	VT54	34
NT20	PM365	VR107	15D2	VT55	865
NT36	DA100	VR108	8D2	VT56	56
NT37	4033A	VR109	4D1	VT57	57
NT38A	PZ1-75	VR109A	4D1	VT58	58
NT39	ACT36	VR116	V872	VT60	807
NT40	DET5	VR117	41MTL	VT60A	807
NT58	DET12	VR117A	41MTL	VT61	DET19
NT62	PM24D	VR118	KT2	VT61A	TV03-10
NT62A	PM24D	VR119	DDL4	VT62	TY1-50
NT65A	PZ1-35	VR122	41MXP	VT63	42
NT82	PM202	VR123	EF8	VT64	800
NU3	U12/14	VR124	MS/Pen	VT65	6C5
NU5	RX3-120	VR125	MS/PenB	VT65A	6C5G
NU12	U18	VR126	4SH	VT66	6F6
NU13	U15	VR129	MS/Pen	VT66A	6F6G
NU13A	U15	VR130	HL23	VT67	30
NU15	U4020	VR135	E1148	VT68	6B7
NU16	GU5	VR136	EF54	VT69	6D6
NU17	UU5	VR137	EC52	VT70	6F7
NU18	U17	VR502	KT32	VT72	842
NU20	U50	VR508	KT33C	VT73	6F5

SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT	SERVICE TYPE	COMMERCIAL EQUIVALENT
VT74	6J7	VT126A	6X5G	VT196	6W5
VT75	KT66	VT126B	6X5GT	VT197A	5Y3G
VT75A B	KT44	VT127	Pen46	VT198A	6G6
VT76	DA41	VT128	1630	VT199	6SS7
VT77	77	VT129	304TL	VT200	VR105-30
VT78	78	VT130	250TL	VT201	25L6
VT79	KT8	VT131	12SK7	VT201C	25L6GT
VT80	4307A	VT132	12K8	VT202	9006
VT81	4052A	VT133	12SR7	VT203	9003
VT83	83	VT134	12A6	VT204	HK24G
VT84	84/6Z4	VT135	12J5	VT205	6ST7
VT85	6K7	VT135A	12J5	VT206A	5V4G
VT86	6K7	VT136	1625	VT207	12AH7
VT86A	6K7G	VT137	1626	VT208	7B8
VT86B	6K7GT	VT138	1629	VT209	12SG7
VT87	6L7	VT139	MH4	VT210	1S4
VT87A	6L7G	VT140	1628	VT211	6SG7
VT88	832	VT141	531	VT212	958
VT88A	6R7G	VT142	WE39DY	VT213A	6L5
VT88B	6RTGT	VT143	805	VT214	12H6
VT89	89	VT144	813	VT215	6E5
VT90	6H6	VT145	5Z3	VT216	816
VT90A	6H6GT	VT146	1N5GT	VT217	811
VT91	6J7	VT147	1A7	VT218	100TH
VT91A	6J7GT	VT148	1D8	VT220	250TH
VT92	6Q7	VT149	3A8	VT221	305
VT92A	6Q7G	VT150	6SA7	VT222	884
VT93	6B8	VT150A	6SA7GT	VT223	1H5
VT93A	6B8G	VT151	6A8	VT224	RK34
VT94	6J5	VT151A	6A8GT	VT225	307A
VT94A	6J5G	VT152	6K6	VT226	3EP1/1806P1
VT94B	6J5	VT152A	6K6GT	VT227	7184
VT94C	6J5	VT153	12C8	VT228	8012
VT94D	6J5GT	VT154	814	VT229	6SL7
VT95	2A3	VT158	3092	VT230	350A
VT96	5B/502A	VT161	12SA7	VT231	6SN7
VT96B	6N7	VT162	12SJ7	VT232	E1148
VT97	5W4	VT163	6C8	VT233	6SR7
VT98	6U5/6G5	VT164	1619	VT234	114B
VT99	6F8	VT165	1624	VT235	615
VT100	807	VT166	371A	VT236	836
VT100A	807	VT167	6K8	VT237	957
VT101	837	VT167A	6K8GT	VT238	956
VT103	6SQ7	VT168A	6Y6	VT239	1LE3
VT104	PT15	VT169	12C8	VT240	710A
VT105	ML6	VT170	1E5GP	VT241	7E5
VT106	803	VT171	1R5	VT243	7C4
VT107	6V6	VT171A	1R5	VT244	5U4
VT107A	6V6GT	VT172	1S5	VT245	2050
VT107B	6V6G	VT173	1T4	VT246	918
VT108	450TH	VT174	3S5	VT247	6AG7
VT109	2051	VT175	1613	VT248	3CP1/180P1
VT111	5BP4/1802P4	VT176	6AB7	VT249	1006
VT112	6AC7	VT177	1LH4	VT250	EF50
VT114	5T4	VT178	1LC5	VT251	WL441
VT115	6L6	VT179	1LN5	VT252	923
VT115A	6L6GT	VT180	EF39	VT254	304TH
VT116	6SL7	VT181	7Z4	VT255	705A
VT116A	6SJ7GT	VT182	3B7	VT256	GL486
VT116B	6SJ7Y	VT183	1R4	VT257	K-7
VT117	6SK7	VT184	VR90/30	VT259	829
VT117A	6SK7GT	VT185	3D6	VT260	0A3
VT118	832	VT187	575A	VT264	3Q4
VT119	2X2	VT188	7E6	VT266	1616
VT120	954	VT189	7F7	VT267	WL578
VT121	955	VT190	7H7	VT268	12SC7
VT122	530	VT191	316A	VT269	717A
VT123	5586	VT192	7A4	VT277	417
VT124	1A5	VT193	7C7	VT279	GY2
VT125	1C5	VT194	7J7	VT280	C7063
VT126	6X5	VT195	5Z4G	VT281	HY145ZT

SERVICE TYPE	COMMERCIAL EQUIVALENT
VT282	ZG489
VT283	QF-206
VT284	QF-197
VT285	QF-200C
VT286	832A
VT287	815
VT288	12SH7
VT289	12SL7
VT501	E1192

SERVICE TYPE	COMMERCIAL EQUIVALENT
VT501A	E1192
VU29	ESU150
VU39	MU12/14
VU64	U12/14
VU71	U52
VU71A	U52
VU72	GU5
VU111	V1907
VU113	U17

SERVICE TYPE	COMMERCIAL EQUIVALENT
VU120	SU2150A
VU120A	SU2150A
VU133	V960
VU134	HVR2
VU504	V1901
VU508	V1913
VW36	220PA
VW42	210LF
VW48	2155G

## British Post Office V.T. Series Index and Cross Reference to British Service Types

VALVE	CV No.	EQUIVALENTS	VALVE	CV No.	EQUIVALENTS
10	1610	MT4	109	1677	AC52
11	1611	MR4	110	1678	HLA2
16	1607	OC2.5	111	1679	DA30
17	1608	U4	112	1680	PM202
19	1612	VT9B	113	1681	TSP4
20	1613		114	1682	
24	1636	LS5	115	1683	MKT4
25	1637	LS5	116	1684	APP4C
26	1600	CAT1	116A	1685	APP4C
27	1601	CAR1	118A	1686	D418
31	1638	4101D	118B	1687	D418
32B	1640	4002D	119	1169	VMP4G
32D	1641	4102E	120	1688	3B/252B
33	1642	DER	121A	1288	3B/252B
35	1615	ESU1500	122	244	AF2
34	1614	ES1500A	125	1689	PA1
36	1602	CAR4	126	1690	9A1
37B	1643	E132	127	1187	D41
37C	1644	E1532	127A	1691	DDL4
38	1645	E133	128	1692	AC/P
38A	1646	E1453	130	1621	ESW501
40	1647	LS5B	131	1168	PX4
46	1616		132	1694	3A/144A
47	1603	4104A	133	1695	DH30
51	1617		136	1118	KT2
52	1025	DET25	137	1081	4502A
53	1604	SS1971	138	1623	RG1-250
54	1618	ES250M	139	399	MH4
56	1648	4205E	140	1166	P220
57	25	ES85	142	1039	R3
58	1619	4212E	143	1696	B21
59	1620	DET6	144	1371	PZ1-35
60	1605	4013C	145	243	4045A
61	1609	SW7	146	1625	RG30250
62	1606	CAT7	147	1697	X41
65	1649	6C5	148	1689	A819
66	1650	LS5A	149	1349	RG5-500
68	1651	G455B	150	1699	SP41
69	1652	P220A	150A	1700	SP41
72	249	4019A	151	1701	XLO
73A	1653	KC1	152	1702	XP
74	1654		153	1703	XW
75	1655	4109B	154	1067	6J5
78	1656	LS8	155	1704	57
79A	1657	4020B	156	1705	58
80A	1658	L29B	157	1706	2B7
81	1659	4022B	158	1707	2A5
82	1660	LS7	159	1708	80
85	1661	DL	160	1709	6D6
86	1662	P215	161	1710	6C6
87	1663	4021B	162	1711	6B7
88	1664	B406	163	1712	42
89	1665	DH	164	1713	EF8
90	1732	ML4	165	1714	1F9
91	1038	MHL4	166	1715	EBC3
92	1735	DC2P	167	1716	E1541
93	1666	P610	168	1626	RG10240A
94	1667	LS8A	169	1717	4307A
95	1668	4033L	170	1718	AC/TP
98	1669	P625	171	1719	U22
100	1670	HL1320	177	1720	XL1.5
100B	1670	HL1320	178	1721	XP1.5
102	1671	4021A	179	1722	A901
103B	1672	Pen36C	180	1053	EF39
105	1673	PM2HL	181	1052	EL32
106	1674	AC/S2Pen	182	1823	1N5
107	1675	N43	183	1724	5A/102D
108	1676	LS8A	185	245	4328D

VALVE	CV No.	EQUIVALENTS	VALVE	CV No.	EQUIVALENTS
186	1726	5A/105A	198	1075	KT66
187	1627	5D/100A	199	124	807
188	1727	Z22	200	1065	SP61
189	1128	GT1C	201	1056	EF36
190	1728	WE262B	202	1054	EB34
191	1628	GU8	203	9	AL60
193	1100	KTW61	204	18	DET19
194	587	6Q7	205	1630	ESP450
195	1863	5Z4	206	1120	SU2150A
196	509	6V6	207	1091	EF50
197	1629	RG3-1250A			

### B.V.A. UTILITY EQUIVALENTS

The last figure of this number denotes the manufacturer and can be disregarded.

E.g., all the 260 series are equivalent to an EL33.

B.V.A. No.	Civilian No.	B.V.A. No.	Civilian No.	B.V.A. No.	Civilian No.
132	HL23DD	172	TP25	264	EL33
142	VP23	211	DW4/350	274	ECH35
162	Pen25	243	EF29		