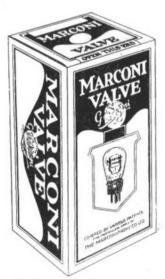
Mary Const



TRADE MARK

(British Made).



The Valve in the Purple Box.

THE MARCONIPHONE COMPANY, LTD.,

Head Office and Showrooms: 210-212, TOTTENHAM COURT RD., LONDON, W. 1

Registered Office and Showrooms:

MARCONI HOUSE, STRAND, LONDON, W.C. 2.

Branches at Birmingham, Bristol, Cardiff, Glasgow, Manchester, and Newcastle-on-Tyne.

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FOREWORD

Marconi Valves are designed by wireless experts—the men who made wireless, the men responsible for to-day's progress in wireless.

A moment's comparison demonstrates their superior efficiency throughout the range, shown by the lower impedances or higher magnification factors. Actual experience confirms their absolute dependability and uniformly long life.

The first thermionic valve; the first dull-emitter; the first power valve; the first British A.C. valves; the first practical screen-grid valve; each and all have been identified with the name of Marconi. And now once again this untiring research benefits users of Marconi valves with improved characteristics for the standard "Economy" range, new Screen-grid types, Pentode Power Valves, Super-power Valves and directly heated A.C. Valves.

Marconi Valves have indeed passed from superiority to supremacy, offering an unapproached range suitable for every radio purpose—each type the best of its kind.

The principal broadcasting and experimental stations throughout the World are equipped with Marconi valves. Wherever absolute reliability is essential, Marconi Valves are used. Despite their exceptional efficiency there is nothing freakish, nothing which experience has not approved of; every Marconi Valve is perfectly dependable and upholds the best British standards.

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MARCONI VALVE

for use with 2-volt Accumulator.

TYPE S 215

SCREENED GRID HIGH FREQUENCY AMPLIFYING VALVE.



Approximate Overall Dimensions, $136 \times 44 \text{ m/m}.$

The S 215 is a specially designed high frequency amplifying valve, having four electrodes, in which the inter-electrode capacity effect, so detrimental to high frequency amplification, has been nullified by the introduction of a screening grid. The anode is connected to a terminal on the top of the valve and the screen grid to the ordinary anode pin of the valve cap.

When used in a suitable circuit and under the conditions specified on the following page a greater magnification per stage can be obtained than when using ordinary three electrode valves in a stabilised circuit.

Filament Volts			2.0 max.
Filament Current		0.	15 amps.
Anode volts		100 to	150 max.
Screen Grid Volts		60 to	90 max.
*Amplification Fac	ctor		170
*Impedance		200,0	oo ohms.
*Normal Slope		:	35 Ma/v.
*At Anode Volts 80, Grid V	120, S olts o	Screen G	rid Volts

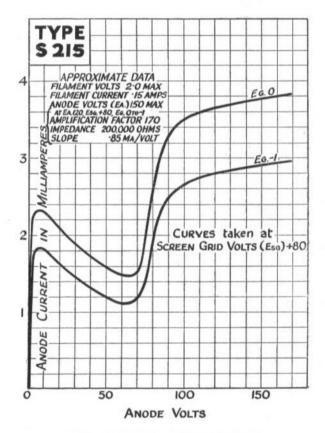
Price, 22/6.

MARCONI VALVES

TYPE S 215

Approximate Operating Data-Neglecting Resistance of Output Circuit.

Anode	Negative	Screen
Volts	Grid Bias Volts	Grid Volts
120	0 to 1½	80



Characteristic Curve of Average S 215 Valve.

MARCONI VALVES

for use with 2-volt Accumulator

TYPES DEH 210 AND DEL 210



Approximate Overall Dimensions, 95 × 41 m/m

TYPE DEH 210

* * * * * * * * * * * * * * * * * * * *	
Fil. Volts	2.0 max.
Fil. Current	o.i amp.
Anode Volts	150 max.
*Amp. Factor	35
*Impedance50,0	ooo ohms.
*Normal Slope	.7 Ma/v.
* At Anode Volts 1	00
	id Volts o

Price, 10/6 TYPE DEL 210

Fil. Volts	2.0 max.
Fil. Current	
Anode Volts	
*Amplification Fa	
*Impedance 12,0	
*Normal Slope	
*At Anode Volts	100

Grid Volts o

TYPE DEH 210

Dull Emitter Resistance Capacity Amplifying and Detector Valve

A highly efficient dull emitter valve, having a very high Amplification Factor, making it suitable for the following purposes:

- In resistance-capacity coupled amplifiers, except in the last stages, where types DEL 210 or DEP 215 should be used.
 - As a detector valve, either with grid leak and condenser or for anode bend rectification, when followed by resistance capacity coupling.
 - In high frequency amplifiers, where a circuit with some form of stabilising or damping is employed.

The maximum filament voltage is 2.0 and this figure should not be exceeded.

TYPE DEL 210

DULL EMITTER GENERAL PURPOSE VALVE

A highly efficient dull emitter valve, having characteristics which make it very suitable for the following purposes:

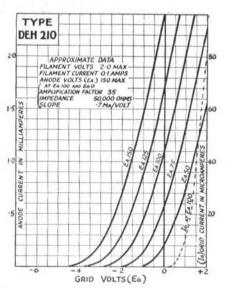
- In High Frequency amplifiers preferably where a circuit with some method of stabilising or damping is employed.
- 2. As a Detector valve using grid leak and condenser.
- In transformer or choke coupled Low Frequency amplifiers, in all stages except the last, where a DEP 215 or DEP 240 power valve should be used.

The maximum filament voltage is 2.0 and this figure should not be exceeded.

TYPE DEH 210

Approximate Operating Data—Neglecting Resistance of Output Circuit.

Anode Volts.	Grid Bias Volts.
March 1	In Resistance Coupled Amplifier:
120-150	$-1\frac{1}{2}$
50-150	As Grid Leak Detector: Connect grid leak to positive end of filament.
75-150	As Anode Bend Detector: $-1\frac{1}{2}$ to -3
75-150	In High Frequency Amplifier: Positive, zero or negative according to method of stabilising or damping circuit.

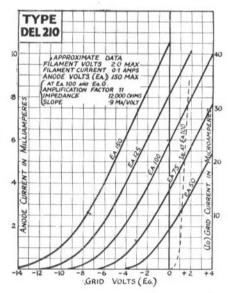


Characteristic Curve of Average DEH 210 Valve

TYPE DEL 210

Approximate Operating Data—Neglecting Resistance of Output Circuit.

Anode Volts.	Grid Bias Volts.	
50-150	In High Frequency Amplifier: Positive, zero or negative according to method of stabilising or damping circuit.	
	As Grid Leak Detector: Connect grid leak to positive end of filament.	
75-150	In Low Frequency Amplifier: $-3 \text{ to } -7\frac{1}{2}$.	



Characteristic Curve of Average DEL 210 Valve

MARCONI VALVES

for use with 2-volt Accumulator

TYPE HL 210

DULL EMITTER, H.F. DETECTOR AND L.F. AMPLIFYING VALVE.



Approximate Overall Dimensions, 95 × 41 m/m.

Fil. Volts2.0 max.
Fil. Current0.1 amps.
Anode Volts150 max.
*Amp. Factor20
*Impedance 23,000 ohms.
*Normal Slope .87 Ma/v.
*At Anode Volts 100
Grid Volts 0

Price, 10/6

The HL 210 is a very efficient Dull Emitter valve, having characteristics which make it suitable for the following purposes:

- In High Frequency Amplifiers, where a circuit with some method of stabilising or damping is employed.
- 2. As a Detector Valve.
- In Transformer or Choke-coupled Low Frequency Amplifiers, except in the last stage, where a DEP 215 or DEP 240 power valve should be used.

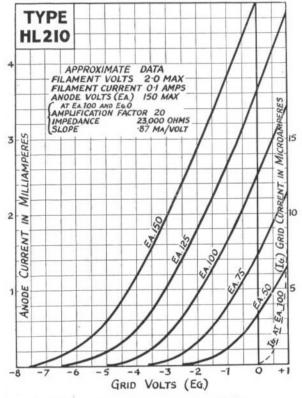
The maximum filament voltage is 2.0 and this figure should not be exceeded.

MARCONI VALVE

TYPE HL 210

Approximate Operating Data—Neglecting Resistance of Output Circuit.

	Anode Volts	Grid Bias Volts
In High Frequency Amplifier	50-150	Positive, zero or negative, according to method of stabilising or damping circuit.
As Grid Leak Detector	50-150	Connect grid leak to positive end of filament.
As Anode Bend Detector	50-150	$-r\frac{1}{2}$ to -6
In Low Frequency Amplifier	75-150	-1½ to -4



Characteristic Curve of average HL 210 Valve.

MARCONI VALVES

for use with 2-volt Accumulator

TYPE DEP 215

DULL EMITTER, LOW FREQUENCY POWER AMPLIFYING VALVE.



Approximate Overall Dimensions, $103 \times 40 \text{ m/m}$.

Price 12/6.

The DEP 215 is a low frequency power amplifying valve designed for use in the last stages of sets operating from a 2 volt accumulator.

The maximum filament voltage is 2.0 and this figure should not be exceeded.

MARCONI VALVES

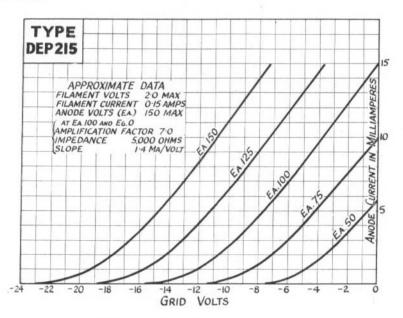
TYPE DEP 215

Type DEP 215 has exceptionally good characteristics, and if used under the conditions given below will give great amplification without distortion.

Approximate Operating Data—Neglecting Resistance of Output Circuit.

Anode Volts.	Negative Grid Bias Volts.	Average Anode Current in Milliamperes.
75	41/2	4.5
100	7 3	5.0
125	101	6.0
150	12	8.5

When used in the last stage of a 2 or 3 valve amplifier, it is desirable to employ a high tension battery voltage of 120/150 to ensure complete absence of distortion. If used as a low frequency amplifier in stages preceding the last position, about 75 to 100 volts H.T. is suitable. In all cases the requisite grid bias as shown in the above table should be employed.



Characteristic Curve of Average DEP 215 Valve.

MARCONI VALVES

for use with 2-volt Accumulator

TYPE DEP 240

Dull Emitter, Low Frequency Power Amplifying Valve.



Approximate Overall Dimensions, 103×46 m/m.

Fil. Volts2.0 max.

Fil. Current0.4 amps.

Anode volts150 max.

*Amp. Factor4

*Impedance 2,500 ohms.

*Normal Slope 1.6 Ma/v.

*At Anode Volts 0

Grid Volts 0

Price, 15/-

The DEP 240 is a low frequency power amplifying valve of the super power class, designed for use in the last stage of sets operating from 2-volt accumulators.

The valve has exceptionally good characteristics and when used with the correct values of anode voltage and negative grid bias will give a distortionless output sufficient for operating loud speakers of the larger type.

The maximum filament voltage is 2.0 and this figure should not be exceeded.

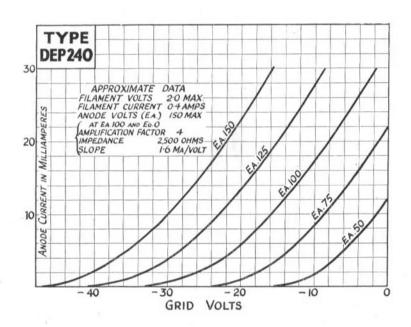
MARCONI VALVES

TYPE DEP 240

To avoid distortion and to obtain the best results consistent with economy of high tension current the valve should be used under the conditions given below.

Approximate Operating Data-Neglecting Resistance of Output Circuit.

Anode Volts	Negative Grid Bias Volts	Average Anode Current in Milliamperes
150	2.4	17
125	19.5	14
100	15	11



Characteristic Curve of Average DEP 240 Valve.

MARCONI VALVES

for use with 4-volt Accumulator.

TYPE S 410

SCREEN GRID, HIGH FREQUENCY AMPLIFYING VALVE.



Approximate Overall Dimensions, 136 × 44 m/m.

The S 410 is a specially designed high frequency amplifying valve having four electrodes, in which the inter-electrode capacity effect so detrimental to high frequency amplification has been nullified by the introduction of a screening grid. The anode is connected to a terminal on the top of the valve and the screen grid to the ordinary anode pin of the valve cap.

When used in a suitable circuit, a greater magnification per stage can be obtained than when using ordinary three electrode valves in a stabilised circuit.

A typical adjustment of electrode potentials is given below.

Anode	Negative	Screen
Volts	Grid Bias Volts.	Grid Volts
120	0 to 1½	80

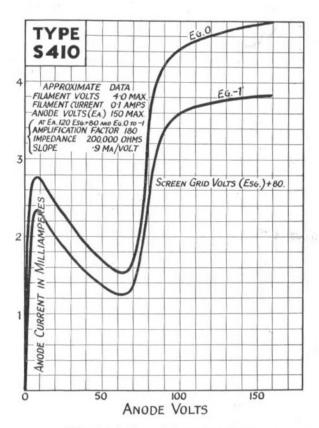
Filament Volts ... 4.0 max.
Filament current ... 0.1 amp.
Anode Volts ... 100 to 150 max.
Screen Grid Volts ... 60 to 90 max.
*Amplification Factor 180
*Impedance ... 200,000 ohms.
*Normal Slope ... 9 Ma/v.
*At Anode Volts 120, Screen Grid Volts

Price, 22/6

80, Grid Voits o to -I.

MARCONI VALVES

TYPE S 410



Characteristic Curve of Average S 410 Valve.

for use with 4-volt Accumulator

TYPES DEH 410 AND DEL 410



TYPE DEH 410

DULL EMITTER, RESISTANCE CAPACITY AMPLIFYING AND DETECTOR VALVE.

A highly efficient dull emitter valve, having a very high "amplification factor" making it suitable for the following

- In resistance capacity coupled amplifiers, except in the last stages, where types DEL 410, DEP 410 or P 425 should be used.
 - 2. As a detector valve, either with grid leak and condenser or for anode bend rectification.
 - In high frequency amplifiers, where a circuit with some form of stabilising or damping is employed.

The maximum filament voltage is 4.0 and this figure should not be exceeded.

Approximate Overall Dimensions, $103 \times 46 \ m/m$.

TYPE DEH 410

Fil. Volts4.0 max.
Fil. Currento.1 amps.
Anode Volts 150 max.
*Amp. Factor 40
*Impedance 60,000 ohms.
*Normal Slope .66 Ma/v.
*At Anode Volts 100
Grid Volts o

Price, 10/6 TYPE DEL 410

Fil. Volts 4.0 max.
Fil. Currento.1 amps.
Anode Volts150 max.
*Amp. Factor
*Impedance8,500 ohms.
*Normal Slope 1.76 Ma/v.
*At Anode Volts 100

Price, 10/6

Grid Volts o

TYPE DEL 410

DULL EMITTER, GENERAL PURPOSE VALVE.

A highly efficient dull emitter valve, having characteristics which make it very suitable for the following purposes:

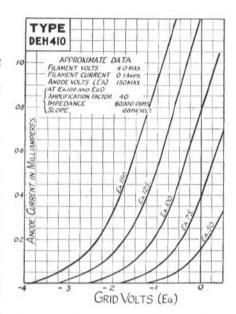
- In high frequency amplifiers where a circuit with some method of stabilising or damping is employed.
- As a detector valve using grid leak and condenser.
- In transformer or choke-coupled low frequency amplifiers, in all stages except the last, where a DEP 410 or P 425 power valve should be used.

The maximum filament voltage is 4.0 and this figure should not be exceeded.

TYPE DEH 410

Approximate Operating Data—Neglecting Resistance of Output Circuit,

Grid Bias Volts
In Resistance Coupled Ampliter:
$-1\frac{1}{2}$
As Grid Leak Detector:
Connect grid leak to positive end of filament
As Anode Bend Detector:
$-1\frac{1}{2}$ to -3
In High Frequency Amplifier:
Positive, zero or negative according to method of stabilising or damping circuit.

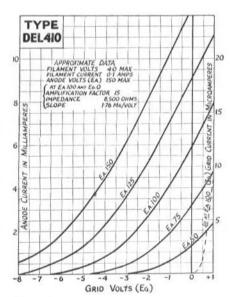


Characteristic Curve of Average DEH 410 Valve.

TYPE DEL 410

Approximate Operating Data—Neglecting Resistance of Output Circuit.

Grid Bias Volts	
In High Frequency Amplifier: Positive, zero or negative according to method of stab- ilising or damping circuit.	
As Grid Leak Detector: Connect grid leak to positive end of filament.	
In Low Frequency Amplifier : $-1\frac{1}{2}$ to $-4\frac{1}{2}$	



Characteristic Curve of Average DEL 410 Valve.

MARCONI VALVES

for use with 4-volt Accumulator

TYPE DEP 410

DULL EMITTER, LOW FREQUENCY POWER AMPLIFYING VALVE.



Approximate Overall Dimensions, $103 \times 46 \ m/m$.

*At Anode Volts 100 Grid Volts 0

Price, 12/6.

The DEP 410 is a low frequency power amplifying valve designed for use in the last stages of sets operating from a 4 volt accumulator.

For these purposes it has exceptionally good characteristics, and if used under the conditions given on next page will give great amplification without distortion.

The maximum filament voltage is 4.0 and this figure should not be exceeded.

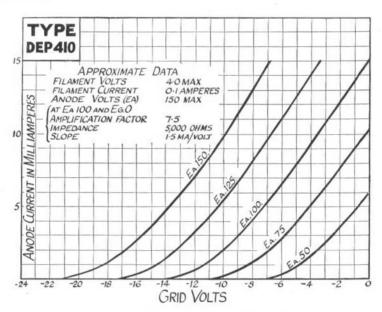
MARCONI VALVES

TYPE DEP 410

Approximate Operating Data-Neglecting Resistance of Output Circuit.

Anode Volts	Negative Grid Bias Volts	Anode Current in milliamperes (approx.)
.75	$4\frac{1}{2}$	4.5
100	6	6.5
125	9	6.8
150	101	9.0

When used in the last stage of a 2 or 3 valve amplifier, it is desirable to employ a high tension battery voltage of 120 to 150 to ensure complete absence of distortion. If used in a low frequency amplifier in stages preceding the last position, about 75 to 100 volts H.T. is suitable. In all cases the requisite grid bias as shown in the preceding table should be employed.



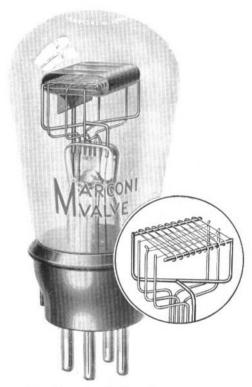
Characteristic Curve of Average DEP 410 Valve.

MARCONI VALVES

for use with 4-volt Accumulator

TYPE P 425

DULL EMITTER, LOW FREQUENCY POWER AMPLIFYING VALVE.



Approximate Overall Dimensions, $103 \times 46 \text{ m/m}.$

Fil. Volts4.0 max.
Fil. Current ...0.25 amps.
Anode Volts150 max.
*Amp. Factor4.5
*Impedance 2.300 ohms.
*Normal Slope 1.95 Ma/v.
*At Anode Volts 100
Grid Volts 0

Price, 15/-

The P 425 is a dull emitter low frequency amplifying valve of the super power class, designed for use in the last stage only of sets operating from a 4 volt accumulator.

When used with correct values of anode voltage and negative grid bias, it will give ample undistorted output for operating loud speakers of the larger type.

MARCONI VALVES

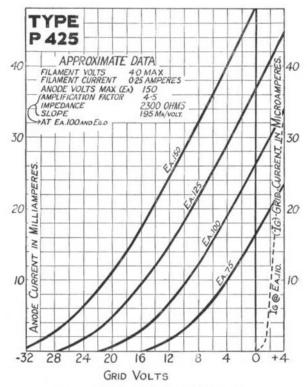
TYPE P 425

To avoid distortion and to obtain the best results, with the greatest economy of high tension current, a negative grid bias is necessary, approximate values of which are given below for several anode voltages.

Approximate Operating Data-Neglecting Resistance of Output Circuit.

Anode Volts	Negative Grid Bias Volts	Average Anode Current in milliamperes
150	16.5	17
125	12.0	15
100	9	II
75	6	7

While the grid bias is being adjusted the high tension supply should be disconnected.



Characteristic Curve of Average P 425 Valve.

MARCONI VALVES

for use with 6-volt Accumulator.

TYPE S 610

SCREEN GRID, HIGH FREQUENCY AMPLIFYING VALVE.



Approximate Overall Dimensions, $136 \times 44 \text{ m/m}$.

The S 610 is a specially designed high frequency amplifying valve, having four electrodes, in which the inter-electrode capacity effect, so detrimental to high frequency amplification has been nullified by the introduction of a screening grid. The anode is connected to a terminal on the top of the valve and the screen grid to the ordinary anode pin of the valve cap.

When used in a suitable circuit, a greater magnification per stage can be obtained than when using ordinary three electrode valves in a stabilised circuit.

A typical adjustment of electrode potentials is given below.

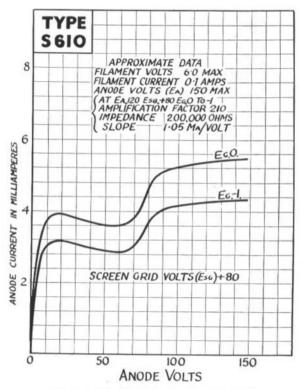
Anode	Negative	Screen
Volts	Grid Bias Volts	Grid Volts
120	o to 1½	80

Filament Volts			6.0 max.
Filament Current			o.i amp.
Anode Volts (Ea.)	4.4.4		150 max.
Screen Grid Volts (Es	g.)	60	to 90 max.
*Amplification Factor			210
*Impedance	0.00	200	,000 ohms.
*Slope			1.05 Ma/v.
* At Anode Volts 120,	Screen 80, Gi	Grid rid V	Volts olts o to -1

Price, 22/6

MARCONI VALVES

TYPE S 610



Characteristic Curve of Average S 610 Valve.

MARCONI VALVES

for use with 6-volt Accumulator

TYPE S 625

SHIELDED VALVE



Approximate Overall Dimensions, $125 \times 32 \ m/m$.

HIGH FREQUENCY AMPLIFYING VALVE

It is well known that one of the greatest difficulties confronting the designer of a high frequency amplifier is the problem of overcoming reaction effects due to the capacity between grid and anode of the valve employed.

Marconi Valve S. 625 attacks the problem in a fundamental manner, by overcoming the inter-electrode capacity effect within the valve itself, and thus making neutralization unnecessary.

A fine mesh grid is interposed between the grid, which is of the standard Marconi type, and the anode—a flat circular plate with dished edges. The grid and filament are supported from one end of the glass tube and are there connected to a cap; the anode and screening grid are mounted in a similar manner at the other end of the tube, thus the capacity between the leading-in wires to the

anode and grid and filament is reduced to zero.

In this way Marconi Type S 625 brings within reach an amplification of 30-50 per stage with absolute stability and maximum efficiency over a very wide range of wave-lengths, and is an important step towards reliable long distance reception.

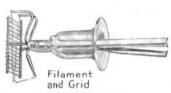
Fil. volts 6.0 Fil. current ... 0.25 Anode volts ... 100-180 max.

The magnification factor and impedance vary between wide limits with variation of volts on the electrodes.

Screen Grid Volts ... 50-120 max.

Price, 22/6

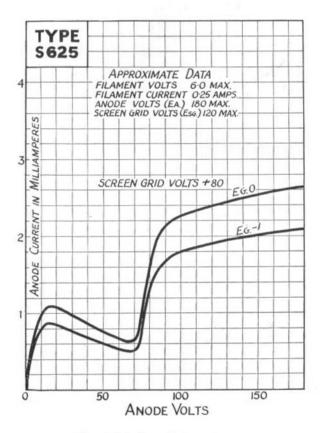




Electrodes of the Marconi Shielded Valve

MARCONI VALVES

TYPE S 625



Characteristic Curve of Average S 625 Valve.

MARCONI VALVES

for use with 6-volt Accumulator



DULL EMITTER, RESISTANCE CAPACITY AMPLIFYING AND DETECTOR VALVE.

A highly efficient dull emitter valve, having a very high "Amplification Factor," making it suitable for the following purposes:

- In resistance-capacity coupled amplifiers, except in the last stages, where types DEL 610, DEP 610, P 625 or P 625A should be used
 - As a detector valve, either with grid leak and condenser or for anode bend rectification, when followed by resistancecapacity coupling.
 - In high frequency amplifiers, where a circuit with some form of stabilising or damping is employed.

The maximum filament voltage is 6.0 and this figure should not be exceeded.

Approximate Overall Dimensions, 103 × 46 m/m.

TYPE DEH 610

Fil. Volts6.0 max
Fil. Currento.1 amps
Anode Volts150 max
*Amp. Factor40
*Impedance60,000 ohms
*Normal Slope67 Ma/v
* At Aunda Valte 100

Price, 10/6

Grid Volts o

TYPE DEL 610

A A A A D D D D D D D D D D D D D D D D
Fil. Volts6.0 max.
Fil. currento.1 amp.
Anode Volts 150 max.
*Amp. Factor15
*Impedance 7,500 ohms.
*Normal Slope2.0 Ma/v.
*At Anode Volts 100
Grid Volts o

Price, 10/6

TYPE DEL 610

DULL EMITTER, GENERAL PURPOSE VALVE.

A highly efficient dull emitter valve, having characteristics which make it very suitable for the following purposes:

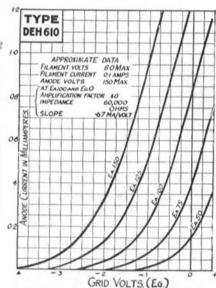
- In High Frequency amplifiers where a circuit with some method of stabilising or damping is employed.
- 2. As a Detector valve.
- In transformer or choke-coupled Low Frequency amplifiers, in all stages except the last, where DEP 610 Power Valve, P 625 or P 625A Super Power Valves should be used.

The maximum filament voltage is 6,0 and this figure should not be exceeded.

TYPE DEH 610

Approximate Operating Data—Neglecting Resistance of Output Circuit.

Anode Volts	Grid Bias Volts
	In Resistance-Coupled Amplifier:
120-150	$-1\frac{1}{2}$
	As Grid Leak Detector :
50-150	Connect grid leak to positive end of filament.
	As Anode Bend Detector:
75-150	$-1\frac{1}{2}$ to -3
	In High Frequency Amplifier :
75-150	Positive, zero or negative ac- cording to method of stabilis- ing or damping circuit,

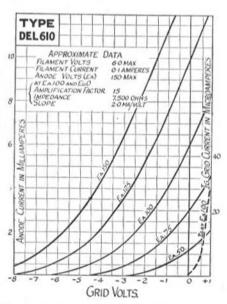


Characteristic Curve of Average DEH 610 Valve.

TYPE DEL 610

Approximate Operating Data—Neglecting Resistance of Output Circuit.

Anode Volts	Grid Bias Volts
50-150	In High Frequency Amplifier: Positive, zero or negative ac- cording to method of stabilis- ing or damping circuit.
50-150	As Grid Leak Detector: Connect grid leak to positive end of filament.
75-150	In Low Frequency Amplifier: $-1\frac{1}{2}$ to $-4\frac{1}{2}$.



Characteristic Curve of Average DEL 610 Valve.

MARCONI VALVES

for use with 6-volt Accumulator

TYPE HL 610

DULI EMITTER, HIGH FREQUENCY DETECTOR AND LOW FREQUENCY AMPLIFYING VALVE.



Approximate Overall Dimensions, $103 \times 46 \ m/m$.

Fil. Volts6.0 max.
Fil. Current0.1 amp.
Anode Volts (Ea) 150 max.
*Amp. Factor30
*Impedance 30,000 ohms.
*Normal Slope 1.0 Ma/v.
*At Anode Volts 100
Grid Volts 0

Price, 10/6.

The HL 610 is a very efficient dull emitter valve, having characteristics which make it suitable for the following purposes:

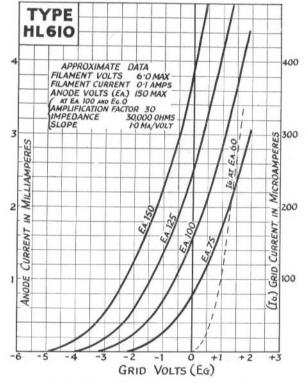
- In High Frequency Amplifiers, where a circuit with some method of damping or stabilising is employed.
- 2. As a Detector Valve.
 - . In the first stage only of L.F. Amplifiers. The maximum filament voltage is 6.0 and this figure should not be exceeded.

MARCONI VALVES

TYPE HL 610

Approximate Operating Data-Neglecting Resistance of Output Circuit.

	Anode Volts	Grid Bias Volts
In High Frequency Amplifier :	75 to 150	Positive, zero or negative according to method of stabilising or damping circuit.
As Grid Leak Detector:	75 to 150	Connect grid leak to posi- tive end of filament.
As Anode Bend Detector:	75 to 150	-1½ to -3
In Low Frequency Amplifier:	120 to 150	-I ½



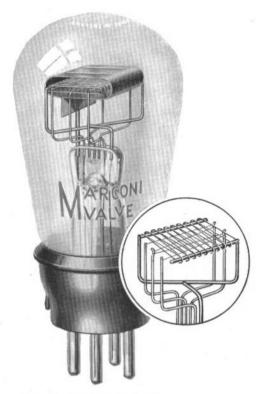
Characteristic Curve of Average HL 610 Valve.

MARCONI VALVES

for use with 6-volt Accumulator

TYPE DEP 610

Dull Emitter, Low Frequency, Power Amplifying Valve.



Approximate Overall Dimensions,

 $103 \times 46 \ m/m$.

Fil. Volts6,0 max-
Fil. Currento.1 amp.
Anode Volts150 max.
*Amp. Factor8
*Impedance 3,500 ohms.
*Normal Slope 2.28 Ma/v.
*At Anode Volts 100

Price, 12/6.

The DEP 610 is a low frequency power amplifying valve designed for use in the last stages of sets operating from a 6-volt accumulator.

For these purposes it has exceptionally good characteristics, and if used under the conditions given on next page will give great amplification without distortion.

The maximum filament voltage is 6.0 and this figure should not be exceeded.

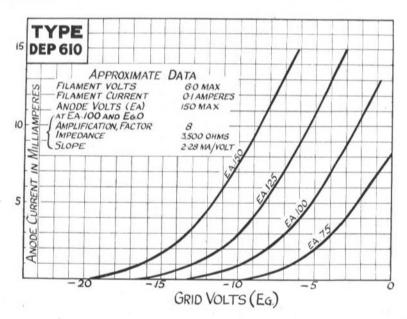
MARCONI VALVES

TYPE DEP 610

Approximate Operating Data-Neglecting Resistance of Output Circuit.

Anode Volts	Negative Grid Bias Volts	Anode Current in Milliamperes (approximate)
75	$4\frac{1}{2}$	2.5
100	6	4.0
125	$7\frac{1}{2}$	6.5
150	9	9.5

When used in the last stage of a 2 or 3 valve amplifier, it is desirable to employ a high tension battery voltage of 120 to 150, to ensure complete absence of distortion. If used in a low frequency amplifier in stages preceding the last position about 75 to 100 volts H.T. is suitable. In all cases the requisite grid bias as shown in the preceding table should be employed.



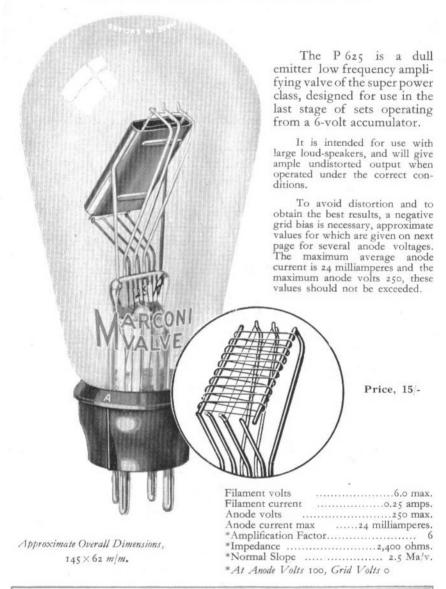
Characteristic Curve of Average DEP 610 Valves.

MARCONI VALVES

for use with 6-volt Accumulators

TYPE P 625

DULL EMITTER, LOW FREQUENCY POWER AMPLIFYING VALVE.



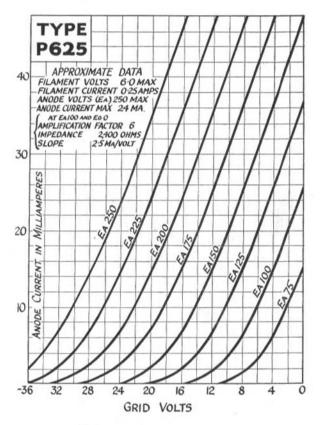
MARCONI VALVES

TYPE P625

Approximate Operating Data-Neglecting Resistance of Output Circuit.

Anode Volts	Negative Grid Bias Volts	Average Anode Current in Milliamperes
250	2.4	24
200	18	19
150	Ι2	14.5
100	6	10

While the grid bias is being adjusted the high tension supply should be disconnected.



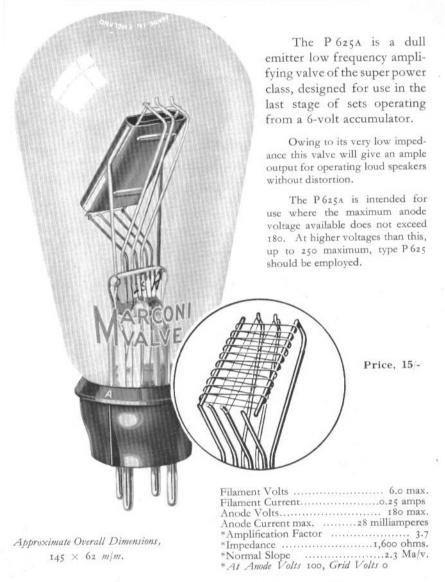
Characteristic Curve of Average P 625 Valve.

MARCONI VALVES

for use with 6-volt Accumulator

TYPE P 625A

Dull Emitter, Low Frequency Power Amplifying Valve.



MARCONI VALVES

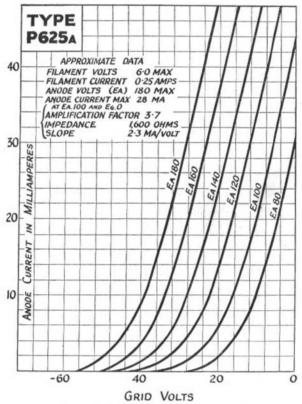
TYPE P 625A

To avoid distortion and to obtain the best results, with the greatest economy of high tension current, a negative grid bias is necessary, approximate values for which are given below for several anode voltages.

Approximate Operating Data-Neglecting Resistance of Output Circuit.

Anode Volts	Negative Grid Bias Voits	Average Anode Current in Milliamperes
180	30	28
140	2 I	22
100	13.5	14

While the grid bias is being adjusted the high tension supply should be disconnected.



Characteristic Curve of Average P 625A Valve.

MARCONI VALVES

for use with 6-volt Accumulator

TYPES DE 5, DE 5A AND DE 5B

POWER VALVES



Approximate Overall Dimensions, $125 \times 56 \ m/m$.

TYPE DE 5

Eminently suitable for L.F. amplification. As last valve of an amplifier it requires a steady negative grid bias of -9 volts with an anode voltage of 140. Used as a detector or high frequency amplifier, the anode voltage should be of the order of 40.

TYPE DE 5a

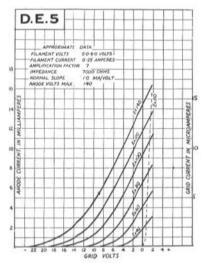
Modified DE 5 for last stage of LF amplifier, working a loud speaker of considerable power. For this purpose the grid of the valve requires a steady negative bias of about 12 volts with an anode voltage of 80 and about 20 volts with an anode voltage of 120.

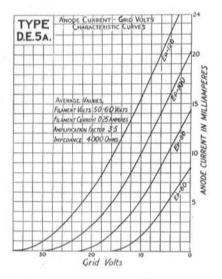
TYPE DE 5b

A modified DE 5 with a high amplification factor. Particularly suitable for use in choke or resistance-capacity coupled amplifiers. For audio frequency amplification the anode volts may be increased to 150. Suitable negative grid bias 1.5 to 3 volts. Type DE 5 should be used in the last stage of the amplifier. Type DE 5b can also be used as an H.F. amplifier.

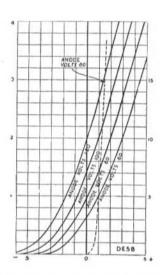
Туре	Fil. Volts	Fil. Current (Amps.)	Anode Volts	Amplification Factor	Impedance (Ohms)	Price
DE 5	5-6	0.25	140	7	7,000	12/6
DE 5a	5-6	0.25	120	3.5	4,000	15/-
DE 5b	5-6	0.25	150	20	30,000	12/6

TYPES DE 5, DE 5A AND DE 5B





Characteristic Curve of Average DE 5 Valve. Characteristic Curve of Average DE 5a Valve.



Characteristic Curve of Average DE 5b Valve.

MARCONI VALVES

for use with 6-volt Accumulator

TYPES LS 5, LS 5A AND LS 5B

POWER VALVES



Approximate Overall Dimensions, $135 \times 56 \text{ m/m}$.

TYPE LS5

FOR POWER AMPLIFICATION.

As a transmitter the maximum permissible anode dissipation is 10 watts. The anode voltage should not exceed 400 volts.

TYPE LS5a

A modification of the LS 5, particularly suitable for the final stages of low-frequency amplifiers for large loud speakers. It will deal with considerably larger amplitudes than the L.S. 5 Valve. Maximum anode loss 13.5 watts.

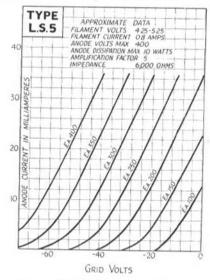
TYPE LS 5b

A modified LS 5 having a high amplification factor, suitable for use in the early stages of an amplifier employing L.S. 5 and L.S. 5a types in the later stages. Maximum anode loss 10 watts.

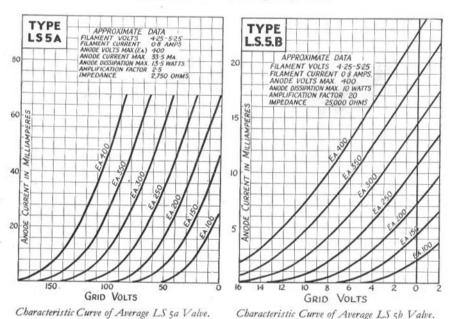
Туре	Fil. Volts	Fil. Current (Amps.)	Anode Volts	Amplification Factor	Impedance (ohms)	Price
LS 5	4.25-5.25	.8	400	5	6,000	25/-
LS 5a	4.25-5.25	.8	400	2.5	2,750	25/-
LS 5b	4.25-5.25	.8	400	20	25,000	25/-

MARCONI VALVES

TYPES LS5, LS5A AND LS5B



Characteristic Curve of Average LS 5 V.alve.



The valve in the purple box

REVISED CHARACTERISTICS.

MARCONI VALVES

MARCONI VALVES

for use with 6-volt Accumulator

TYPE LS 6A

DULL EMITTER POWER AMPLIFYING VALVE.



Approximate Overall Dimensions, 145 × 62 m/m.

The LS 6A is a high power amplifying valve giving a large undistorted power output.

It is intended for use in the last stage of low frequency amplifiers, where ample power is available for the anode supply.

When operating the LS 6A valve, provision should be made for sufficient air circulation to prevent over-heating. Care should be taken to switch off the anode volts when inserting or removing the valve from its socket or when any adjustments are made to the circuits, such as alteration to grid bias.

The maximum average anode current is 63.0 milliamperes and the maximum anode volts 400. To obtain the full emission life these values should not be exceeded.

The LS 6A is designed to operate at a maximum filament voltage of 6·o. At this the emission from the filament is very large, and in many cases it will be found satisfactory and economical to run at a filament voltage between 6·o and 5·25.

Filament Volts			6.0 max.
Filament Current			1.6 amps.
Anode Volts			400 max.
Max. Anode Dissi	pation		25 watts
*Amplification Fact	tor		3.0
*Impedance		1	,300 ohms
*Normal Slope			2.3 Ma/v
*At Anode Volts 10	oo, Gri	d Vol	ts o

Price, 30/-

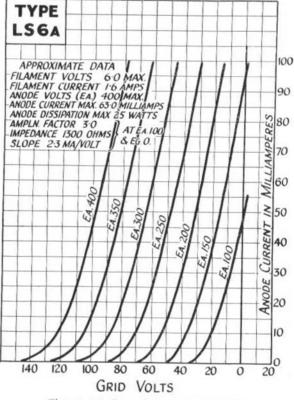
MARCONI VALVES

TYPE LS 6A

Approximate Operating Data-Neglecting Resistance of Output Circuit.

Anode Volts	Negative Grid Bias Volts	Average Anode Current in Milliamperes
400	93	63
350	78	60
300	63	5.5
250	50	47
200	36	40

The accompanying data is approximate only, and it will be found that individual valves vary about these figures. It is recommended that the negative grid bias voltage be adjusted for each valve, so as to obtain approximately the anode currents stated at the respective H.T. voltages in the above table.



Characteristic Curve of Average LS 6a Valve.

MARCONI VALVES

for use with 6-volt Accumulator

TYPE LS 6A

DULL EMITTER POWER AMPLIFYING VALVE.



Approximate Overall Dimensions, 145 × 62 m/m.

The LS 6A is a power amplifying valve designed with large power handling capacity to supply considerable undistorted volume.

It is intended for use in the last stage of low frequency amplifiers, where provision is made for adequate high tension supply.

When operating the LS 6A valve, provision should be made for sufficient air circulation to prevent over-heating. Care should be taken to switch off the power supply when inserting or removing the valve from its socket or when any adjustments are made to the circuits, such as alteration to grid bias.

The maximum average anode current is 62.5 milliamperes and the maximum anode volts 400. To obtain the full emission life these values should not be exceeded.

Filament Volts			6.0 max.
Filament Current			1.6 amps.
Anode Volts			400 max.
Max, Anode Dissi	pation		25 watts
*Amplification Fac	tor		2.5
*Impedance		1	,350 ohms
*Normal Slope			1.85 Ma/v.
*At Anode Volts 1	oo, Gri	d Vol	15 0

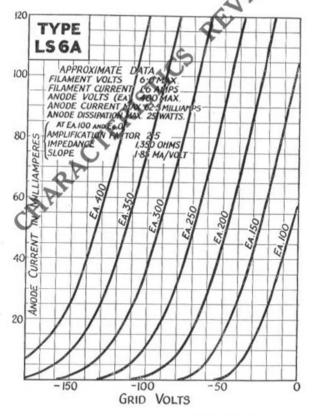
Price, 30/-

MARCONI VALVES

TYPE LS 6A

Approximate Operating Data-Neglecting Resistance of Output Circuit.

Anode Volts	Negative Grid Bias Volts	Average Anode Current in Milliamperes
400	128	62.5
350	110	57
300	90	55
250	70	50
200	50	45



Characteristic Curve of Average LS 6a Valves.

MARCONI VALVES

with indirectly heated Cathodes

TYPES KH1 AND KL1



Approximate Overall Dimensions, 145 \times 62 m/m.

TYPE KH 1

Heater volts			3.5 max.
Heater current			2.0 amps.
Anode volts			150 max.
Amplification fact	or		40
Impedance		33,	ooo ohms.
Normal slope		1.3	3 Ma/volt

Price, 15 -

TYPE KH 1

HIGH OR LOW FREQUENCY AMPLIFYING AND DETECTOR VALVE WITH INDIRECTLY HEATED CATHODE.

Particularly suitable for use as High Frequency Amplifier, Anode Bend Detector and in Resistance Coupled Low Frequency stages.

Specially designed to work without a Low Tension Battery where an alternating current is available.

TYPE KL 1

GENERAL PURPOSE VALVE WITH INDIRECTLY HEATED CATHODE.

The type KL1 is a valve specially designed to work without a low Tension Battery. In the ordinary Thermionic valve the heater and cathode are the same, i.e. the filament. In this valve the cathode encloses a separate heating element which may be connected to the low voltage secondary winding of a transformer of suitable ratio, fed from A.C. supply mains, without introducing any objectionable hum.

Due to the very large cathode area the KL I has exceptionally good characteristics, and is suitable for purposes as shown on following page.

TYPE KL 1

TYPE	KL	1	
Heater Volts			3.5 volts
Heater Current			2.0 amps
Anode volts			150 max.
*Amplification Fa	ctor		7.5
*Impedance		3,	750 ohms.
*Slope			2.0 Ma/v
*At Anode Volts	100, 6	irid V	olts o.

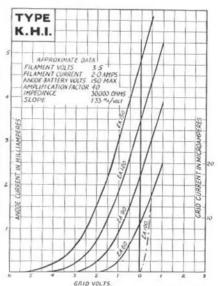
Price, 17/6.

MARCONI VALVES

TYPES KH 1 AND KL 1 TYPE KH 1

Approximate Operating Dat — Neglecting Resistance of Output Circuit.

Anode Volts	Grid Bias Volts.
20-40	As Grid Leak Detector :- + 1½
60-150	As Anode Bend Rectifier :- — 1½ to 4½
60-150	In High Frequency Amplifier: Positive, zero or negative ac- cording to method of stabiliz- ing or damping circuit.
100-150	In Low Frequency Amplifier (not last stage): 1½ to -2



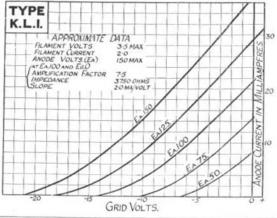
Characteristic Curve of Average KH 1 Valve.

	Anode Volts	Grid Bias Volts
In High Frequency Amplifier	50-i 50	Positive, zero or negative, according to method of stabilizing or damping.
As Grid Leak Detector.	50-150	1½ volts Positive.
In Low Frequency Power Amplifier	50-150	3 to 10½ volts negative.

TYPE KL 1

Approximate
Operating Data—
Neglecting Resistance
of Output Circuit.





MARCONI VALVES

for operation from Alternating Current Mains

TYPE S POINT 8

DULL EMITTER A.C. SCREEN GRID HIGH FREQUENCY AMPLIFYING VALVE.



Approximate Overall Dimensions, $136 \times 44 \ m/m$.

The S Point 8 is a specially designed high frequency amplifying valve, having four electrodes, in which the inter-electrode capacity effect, so detrimental to high frequency amplification, has been nullified by the introduction of a screening grid. The anode is connected to a terminal on the top of the valve and the screen grid to the ordinary anode pin of the valve cap.

In addition, the filament is so constructed as to make the valve suitable for operating directly from the Alternating Current Mains through a suitable transformer, without the introduction of A.C. hum into the circuit.

When used in a suitable circuit and under the conditions specified a greater magnification per stage can be obtained than when using ordinary three electrode valves in a stabilised circuit.

The grid return lead should be joined to the slider or centre point of a potentiometer connected aross the filament.

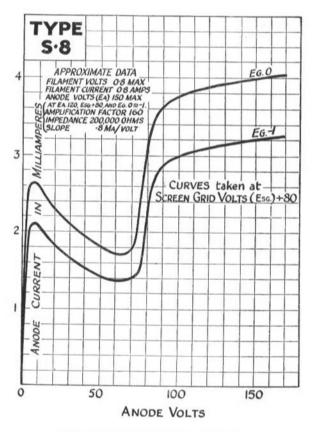
Anode	Negative	Screened
Volts	Grid Bias Volts	Grid Volts
120	o to 1½	80

Filament Volts o.8 max. ... o.8 amps. Filament current ... 100-150 max Anode volts 60-90 max. Screen grid volts ... 160 *Amplification factor *Impedance 200,000 ohms. ... o.8 Ma/v. *Normal Slope *At Anode Volts 120, Screen Grid Volts, 80, Grid Volts o to -I.

Price, 25/-

MARCONI VALVES

TYPE S POINT 8



Characteristic Curve of Average S.8 Valve.

for operating from A.C. mains

TYPE H POINT 8

DULL EMITTER A.C. RESISTANCE-CAPACITY AMPLIFYING VALVE.



The H.8 is a valve designed to work without a low tension battery. The filament should be operated directly from the Alternating Current Mains through a suitable transformer. For this purpose it is constructed to consume a moderately high current at a very low voltage; this has the effect of materially reducing the introduction of A.C. hum

into the Receiving set.

The valve has a high amplification factor, making it suitable for the following purposes

1. In resistance-capacity coupled amplifiers, except in the last Anode volts 150, negative grid bias 11 volts.

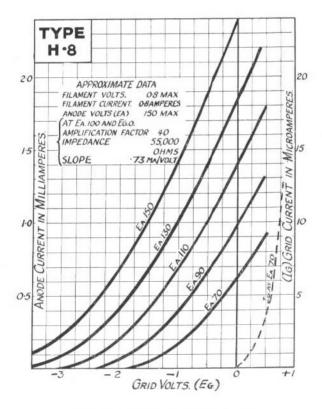
- Approximate Overall Dimensions. 103×46 m/m.
- Fil. Volts.o.8 max. Fil. Current ...o.8 amps. Anode Volts. ... 150 max.
- *Amp. Factor40 *Impedance...55,000 ohms.
- *Normal Slope .73 Ma/v.
- *At Anode Volts 100 Grid Volts o

- 2. In high frequency amplifiers, where a circuit with some form of stabilising or damping is employed.
- 3. As a detector valve using anode bend rectification. Anode Volts 75 to 150, negative grid bias 11/2 to 3 volt. This valve is not recommended for use as a Detector using grid leak and condenser.

Price, 15/-

MARCONI VALVES

TYPE H POINT 8



Characteristic Curve of Average H.8 Valve.

MARCONI VALVES

for operating from A.C. Mains

TYPE HL POINT 8

DULL EMITTER A.C. HIGH FREQUENCY AND LOW FREQUENCY AMPLIFYING VALVE.



The HL.8 is a valve designed to work without a low tension battery. The filament should be operated directly from the Alternating Current Mains through a suitable transformer. For this purpose it is constructed to consume a moderately high current at a very low voltage; this has the effect of materially reducing the introduction of A.C. hum into the Receiving set.

The Valve has characteristics making it specially suitable for the following purposes:

- In high frequency amplifying circuits, where some form of stabilising or damping is employed.
- As a detector valve using anode bend rectification. Anode volts 75 to 150, negative grid bias 3 to 7½ volts. This valve is not recommended for use as a detector using grid leak and condenser.
- 3. In the first stage of low frequency amplifiers.

Approximate Overall Dimensions, $103 \times 46 \ m/m$.

*Impedance 17,000 ohms.

*Normal Slope 1.00 Ma/v.

*At Anode Volts 100 Grid Volts 0

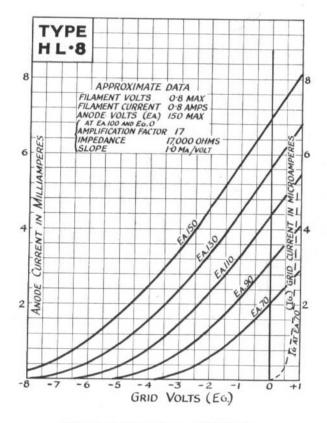
Price, 15/-

Approximate Operating Data— Neglecting Resistance of Output Circuit.

Anode Volts	Negative Grid Bias Volts	Anode Current in milliamperes
150	3 to 4.5	3.5 to 2.2
120	3	2.0
90	1.5	1.7

MARCONI VALVES

TYPE HL POINT 8



Characteristic Curve of average HL.8 Valve.

MARCONI VALVES

for operating from A.C. Mains

TYPE P POINT 8

Dull Emitter A.C. Low Frequency and Power Amplifying Valve.



Approximate Overall Dimensions, $103 \times 46 \ m/m$

Price, 17/6

The P.8 is a valve designed to work without a low tension battery. The filament should be operated directly from the Alternating Current Mains through a suitable transformer. For this purpose it is constructed to consume a moderately high current at a very low voltage; this has the effect of materially reducing the introduction of A.C. hum into the Receiving set.

The valve has a low impedance, making it suitable as a low frequency or power amplifier.

For greater output any Marconi Super Power valve can be used in the last stage in conjunction with a suitable filament transformer.

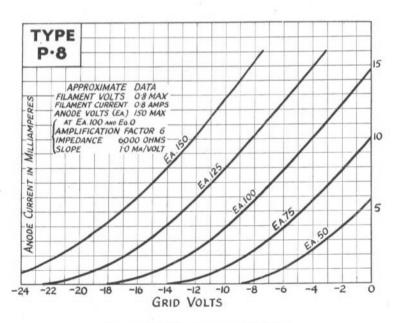
MARCONI VALVES

TYPE, P POINT 8

To avoid hum, the grid return lead should be taken to the slider or centre point of a potentiometer connected across the filament.

Approximate Operating Data-Neglecting Resistance of Output Circuit.

Anode Volts	Negative Grid Bias Volts	Average Anode Current in milliamperes
150	12	10.0
125	10.5	7.5
100	7.5	6.0
75	6.0	4.0



Characteristic Curve of average P.8 Valve.

MARCONI VALVES

for operation from A.C. Mains

TYPE PT POINT 8

DULL EMITTER A.C. PENTODE LOW FREQUENCY AMPLIFYING VALVE.



Approximate Overall Dimensions, 110 × 51 m/m.

The Pentode Point 8 is an entirely new design of valve, designed for use in the last stage of amplifiers operating from A.C. mains. Its construction embodies three grids in addition to the filament and anode. The innermost is the control grid, and is connected to the ordinary grid pin on the cap. The middle or screen grid is connected to a small terminal on the side of the cap, and the third grid is joined internally to the filament.

The filament should be operated from the A.C. supply, fed through a suitable transformer. For this purpose it is constructed to consume a moderately high current at very low filament voltage.

The characteristic of the Pentode Point 8 is the large output in conjunction with high amplification factor, thus making it very suitable in the last stage only of sets where it is desired to amplify weak signals without the use of an additional low frequency amplifying valve.

Filament volts				,						,		0	. 5	3	n	ıa	X.
Filament current						. ,		,			I		5	8	ın	np	s.
Anode volts				 								I	50	0	n	na	X.
Screen grid volts										 	.]		50)	m	ıa:	x.

*Amplification	n factor		75
*Impedance		45,000	ohms.

*Normal Slope1.65 Ma/v.

Price, 27/6

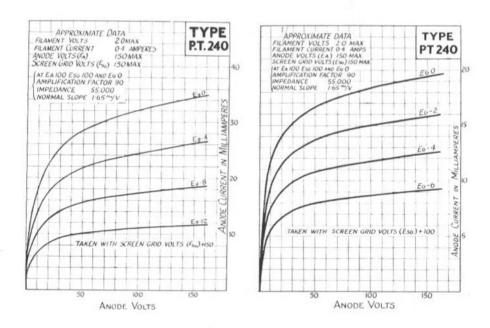
*At Anode Volts 150, Screen Grid Volts, 100

MARCONI VALVES

TYPE PT 240

. Ipproximate Operating Data-Neglecting Resistance of Output Circuit.

Anode Volts	Screen Volts	Negative Grid Bias Volts	Average Anode Current in milliamperes
150	150	9	16
120	100	6	9



Characteristic Curves of Average PT 240 Valve.

MARCONI VALVES

for use with 2-volt Accumulator

TYPE PT 235

DULL EMITTER PENTODE LOW FREQUENCY AMPLIFYING VALVE



Approximate Overall Dimensions, $110 \times 51 \ m/m$.

The PT 235 is an entirely new design, being constructed with three grids, in addition to the filament and anoth. The innermost of these three grid, is the control grid connected to the ordinary grid pin; the middle grid is connected to a small terminal on the side of the cap, and the third is joined internally to the filament.

The characteristics of the PT 235 is the large output in conjunction with high amplification factor, this making it very suitable in the last stage only of sets where it is desired to amplify weak signals without the use of an additional low frequency amplifying valve.

Price, 25/-

Filament Volts	2.0 max.
Filament Current	0.35 amps.
Anode Volts (Ea.)	150 max.
Screen Grid Volts (Esg)	150 max.

*Amplification	Factor	90
	a menositivities and a second	9-

^{*}Impedance 55,000 ohms.

*At Anode Volts 100, Screen Grid Volts 100, Grid Volts 0.

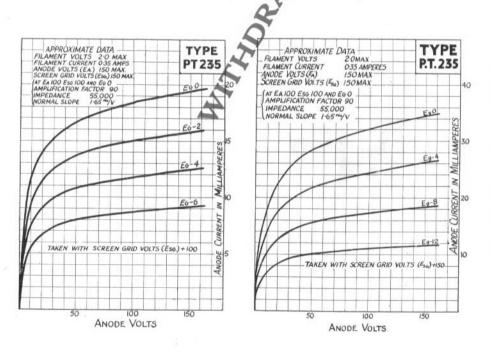
^{*}Normal Slope1.65 Ma/v.

MARCONI VALVES

TYPE PT 235

Approximate Operating Data-Neglecting Resistance of Output Circuit.

Anode Volts	Screen Volts	Negative Grid Bias Volts	Average Anode Current in milliamperes
150	150	9	16
120	100	6	9



Characteristic Curves of Average PT 235 Valve.

MARCONI VALVES

TYPE U4

RECTIFYING VALVE



Approximate Dimensions, $125 m/m \times 56 m/m$.

A Two-electrode Dull-emitter Valve designed for use as a rectifier for supplying high-tension current for wireless receivers from alternating current mains through a suitable smoothing circuit. The valve provides half-wave rectification at Alternating Current input voltages up to 220 volts (R.M.S.). The maximum rectified current, as measured with a moving coil meter, should not exceed 15 milliamps. This current is sufficient for most receivers other than those employing special power valves.

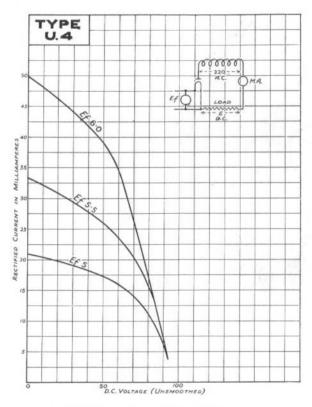
The normal filament voltage is 5.8 volts and it is important that this voltage should not become less than 5.6 or more than 6.0 volts through variations in the supply voltage or any other reason, otherwise its life will be considerably shortened. The rectified voltage must not, in any case, be adjusted by dimming the filament as this is harmful to the valve. If adjustment is desired other than that provided by transformer tappings a variable high-resistance should be connected in series with the load.

Filament Volts	 	 		5.6/6.0
Filament Current	 	 ***	***	.25 amps.
Anode Volts (R.M.S.)	 	 		220 max.
Impedance	 	 	1	,200 ohms.
Max. rectified current	 	 	15 mi	lliamperes.

Price 15/-

MARCONI VALVES

TYPE U 4
RECTIFIER



Characteristic Curve of Average U 4 Valve.

MARCONI VALVES

TYPE U8

DULL EMITTER, FULL WAVE RECTIFYING VALVE.



Approximate Overall Dimensions, $145 \times 62 \ m/m$.

Price, 22/6

The U 8 type valve is a dull emitter rectifying valve incorporating a dual electrode system in one bulb. Rectification of both half cycles of the A.C. wave is obtained when the valve is used in High Tension Battery Eliminators fed from A.C. mains, with a consequent simplification of the necessary smoothing system.

The input voltage to the anodes should not exceed 500 volts RMS, and the rectified current as measured on a moving coil meter should not exceed 120 milliamperes. The output of this valve when fed through suitable Power Amplifying valves is sufficient for the operation of Loud Speakers of the moving coil type, and may also be used for supplying the field current to suitably designed coils of the same instruments.

The filament voltage should not exceed 7.5 volts, and the output voltage should not be controlled by variation of the filament brilliancy. Attention to these details will ensure a long useful life.

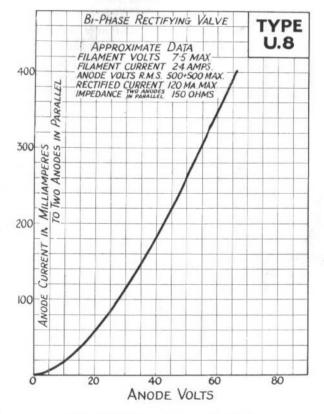
Variation in output voltage may be obtained in the following manner.

- 1. By tappings on the transformer secondary
- 2. By the use of resistances in series with the output.
- By the use of a potentiometer. The sum of the potentiometer and load currents must not exceed the maximum output current of 120 milliamperes.

MARCONI VALVES

TYPE U8

RECTIFIER



Characteristic Curve of Average U 8 Valve.

MARCONI VALVES

TYPE U 5

FULL WAVE RECTIFYING VALVE



Approximate Dimensions, $135 \text{ m/m} \times 56 \text{ m/m}$.

An entirely new departure in rectifying valves since it incorporates a double electrode system in one bulb, providing rectification of both halves of the Alternating Current wave. One of the principal advantages of this system is the substantial simplification which becomes possible in the design of the smoothing system. It is therefore particularly suitable for supplying all types of wireless receiving sets with H.T. from A.C. mains through a suitable smoothing circuit. ment is designed for a long life with ample and constant emission throughout, when operated at its rated voltage.

The input A.C. voltage may be taken up to 400 + 400 volts (R.M.S.) and the rectified current should not exceed 60 milliamperes on a moving coil meter. Variation in output voltage should never be made by dimming the filament, but may be made as follows:—

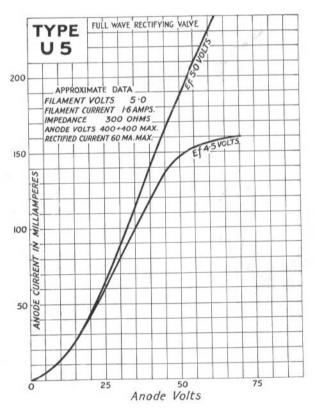
- 1. By tappings in the transformer secondary.
- 2. By the use of high resistance in series with the output.
- 3. By the use of a potentiometer. In this case, however, the total current taken by the potentiometer and load must not be greater than 50 milliamperes.

Filament volts			 	 5.0
Filament curre	ent	***	 	 1.6 amps.
Anode volts (R.M.S.)		 	 400 + 400 max.
Impedance	***		 	 300 ohms.
Max. rectified	current		 	 60 milliamperes.

Price, 20/-

MARCONI VALVES

TYPE U 5
RECTIFIER



Characteristic Curve of Average U 5 Valve.

MARCONI VALVES

TYPE U9

DULL EMITTER FULL WAVE RECTIFYING VALVE



Approximate Overall Dimensions, $135 \times 56m/m$.

Filament volts 4.0 max.
Filament current 1.0 amp.
Anode volts (max.)
250 + 250 RMS.
Impedance (two anodes in parallel) 220 ohms.
Rectified current
75 milliamperes (max.)

Price, 20/-

The U 9 type valve is a dull emitter rectifying valve incorporating a dual electrode system in one bulb. Rectification of both half cycles of the A.C. wave is obtained, when the valve is used in High Tension Battery Eliminators fed from A.C. mains, with a consequent simplification of the necessary smoothing system.

The input voltage to the anodes should not exceed 250 volts RMS, and the rectified current as measured on a moving coil meter should not exceed 75 milliamperes. The output of the U 9 is suitable for the operation of multi-valve receivers, and when used in conjunction with Super Power Valves is sufficient for loud speakers of the larger types.

The filament voltage should not exceed 4.0 volts, and the output voltage should not be controlled by variation of the filament brilliancy. Attention to these details will ensure a long useful life.

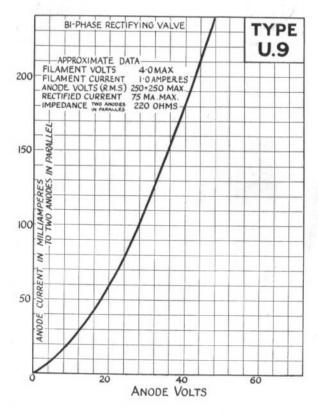
Variation in output voltage may be obtained in the following manner:—

- By tappings on the transformer secondary.
- By the use of resistances in series with the output.
- 3. By the use of a potentiometer. The sum of the potentiometer and load currents must not exceed the maximum output current of 75 milliamperes.

MARCONI VALVES

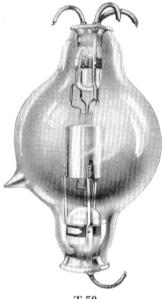
TYPE U9

RECTIFIER



Characteristic Curve of Average U 9 Valve.

MARCONI TRANSMITTING VALVES



T 50
Approximate Overall Dimensions, $145 \times 76 \ m/m$.

T 30

TYPE T50

A small power, double ended Transmitting Valve, tested dissipating 50 watts at the anode, suitable for voltages up to 1,500.

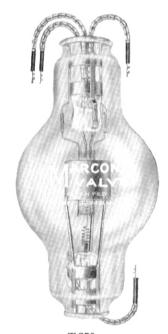
Price, £5 12 6

TYPE T250

A Transmitting Valve, tested dissipating 250 watts at the anode, suitable for voltages up to 4,000

Filament Volts.....12.5 Anode Volts, 2,000-4,000 Fil. Current...5.5 amps. Impedance... 17,000 ohms Voltage Magnification....... 20

Price, £7 7 0



T 250
Approximate Overall Dimensions,
280 × 120 m/m.

TYPE T30

A small power Transmitting Valve tested dissipating 30 watts at the anode, suitable for voltages up to 1,000.

Filament Volts 7.0 Fil. Current... 1.8 amps. Anode Volts 1,000 Impedance, 40,000 ohms Volt. Magnification... 35

Price, £2 10 0

MARCONI TRANSMITTING VALVES



DET 1 sw
Approximate Overall
Dimensions, 240×76 m/m.



Approximate Overall Dimensions, 115 × 55 m/m.

TYPE DET 1 sw

A double ended dull emitter Transmitting Valve, designed for short wave working on wavelengths down to 10 metres.

Under normal oscillating conditions at 15 metres the anode current should not exceed 80 m.a. at 800 volts. At 10 metres, these figures should not be more than 80 m.a. at 500 volts; and at 100 metres, 80 m.a. at 1,000 volts.

Filament Volts 6.0 Fil. Current 2.0 amps. Amplification Factor ... 8.5 Impedance.....5,000 ohms.

Price, £7 5 0

TYPE DET1

A small power Transmitting Valve with a dull emitting filament. Tested dissipating 40 watts at the anode and suitable for voltages up to 1,000.

Filament Volts.......6.0 Filament Current, 1.0 amps. Anode Volts ... 1,000 max. Amplification Factor....11 Impedance....6,000 ohms.

Price, £5 5 0



DET 1
Approximate Overall
Dimensions, 180 × 78 m/m.

TYPE T 15

A small power Transmitting Valve, tested dissipating 15 watts at the anode, suitable for voltages up to 600.

Filament Volts	5.5-6.0
Filament Current	
Anode Volts	. 600
Impedance 50,00	o ohms.
Voltage Magnification	25

Price, £1 10 0