Osram Valves.

A NEW full-revised series of Osram valves have been brought out by the British General Electric Company. From their Wellington agents we have received samples of the 6-volt type. The following is a table of the Osram valves now on the market.

We have tested the following valves: DEH610-This is a valve for use with a resistance-coupled amplifier, but used as a detector, it is very satis-It oscillates freely on low amplifier a wide undistorted range.

DEL610-This is a general-purpose as R.F., detector or audio. It is capable of handling the output of a 3valve set without distortion. Correctly biased, with 3-volts it will deliver a current of about 8 milliamperes.

Laboratory Jottings

Osram Valves and Ferranti Products

DEP610-This is a very fine valve, about the reproduction that indicated multi-valve receiver. It does not apvoltage and is capable of feeding to the amplifier a wide undistorted range. an overall reproduction and clearness that is the hall-mark of the good valve. valve which can be used satisfactorily The slope, 2.8 milliamps, per voit, with an impedance of 3,500, ensures perfect functioning.

These valves were found to give very fine tone and very powerful signals. There was a clearness and trueness

suitable for use in the last stage of a quite clearly the merit of their combination. For a 3-valve set a combination of DEH610, DEL610 and DEP610 was found to give excellent results.

An account of the series of the new Osrams would not be complete without detector. reference to the 2-volt vertical mounting screen-grid valves.

chart accompanies the power pack giving instructions as to which resistance to use in numbered sockets for the valves to be supplied.

From these five tappings are taken through a battery cable to the set, thus providing for separate voltage for the plates of the screen-grid, detector, L.F. and power valves, and the screening grid of the screen-grid valve. The unit is capable of delivering an output of 100 milliamps, at a voltage of 200. This is rather unusual, and fits it for use with sets using super-power valves and also for power amplifiers. low voltages can be taken off for the

The cable connecting with the This type em- mains is provided with three wires, one

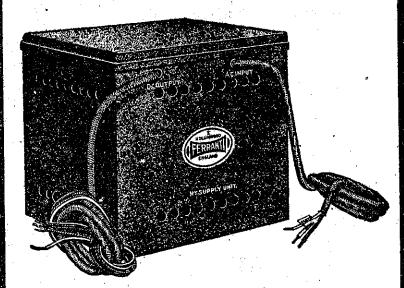
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Valves	Position	v£.	ìf.	Ri.	g.	va.	vg.	Slope mA/V
	No. 1976	0.0	Λ 1	09 000	20.0	150	3.0	0.87
HL210	R.F.	2.0	0.1	23,000				
HL610	R.F.	6.0	0.1	30,000	30.0	150	1.5	1.0
S215	S.G.	2.0	0.15	200,000	170.0	100-150 n		0.85
S625	R.F.S.G.	6.0	0.25	Variable	<u> </u>	100-180	50-120	j
					az. Rect.			
DEL210	General	2.0	0.1	12,000	11.0	150	6,0	0.92
DELA10	General	4.0	0.1	8,500	15.0	1.50	3.5	1.77
DEL610.	General	6.0	0.1	7,500	15.0	150	3.0	2.0
DEH210	H.F.	2.0	0.1	50,000	35. 0	150	1.5	0.7
DEH410	H.F.	4.0	0.1	60,000	40.0	150	1.0	0.67
DEH610	H.F.	6.0	0.1	60,000	40.0	150	1.0	0.67
DEP410	Power	4.0	0.1	5,000	7.5	150	9.0	1.5
DEP610	L.F. Audio	6.0	0.1	3,000	7.5	150	8.0	1.5
P425	Power	4.0	0.25	2,300	4,5	150	12.0	1.95
P625	Power	6.0	0.25	2.400	6.0	250	18.0	2.5
P625A.	Power	6.0	0.25	1,600	3.7	180	22.5	2.3
DEP240	Power	2.0	0.4	2.500	8.0	150	8.0	2.3
DEP215	Power	2.0	0.15	5.500	4.0	. 150	20.0	1.6
DEP410	Power	4.0	0.1	5.000	7.0	150	12.0	1.4
PT235	Pen.	2.0	0.85	55,000	90.0	150	12.0	1.65
H8	A.C.	0.8	0.8	55,000	40.0	150	1.5	0.73
HLS	A.C.	0.8	0.8	17,000	17.0	150	3.5	1.0
P8:	A.C.	0.8	0.8	6.000	6.0	150	10.0	1.0
US	Rec.	5.0	1.6	300	60 mil			
U8	Rec.	7.5	2.4	250	120 mil			
****				10 01			والمستأسدة	

Where vf., filament volts; if., filament current; Ri., impedance; g., amplification factor; va., anode voltage; vg., grid voltage.

THE

FERRANTI H.T. SUPPLY UNIT



A WONDERFUL **ACHIEVEMENT**

Unvarying Supply 200 Volts 100 M.A.

A. D. Riley & Co. Ltd., Wellington

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S. VEITCH & CO.,

Madras Street, Christchurch.

P. F. MANN, LTD.,

Rattray Street, Dunedin,

the screen-grid, and gives excellent re-system and ensures safety. sults. It was found to function best with about 60 volts on the screen and 150 on the plate. The filament requires A very wide range of very accurate 15 amperes at 2 volts, and, in common meters are now obtainable in this with other screen-grid valves of Eng. popular make. the terminal at the top of the valve.

super-power valve, which will take 250 many as three different readings, millivolts on the plate, is to arrive shortly. amps. and two voltage scales. This valve should meet a long felt need for a power valve intermediate between of meter, and 1,000 ohms. per vot in the 171A type (DEP610) and the 210 another ensure a very high grade intype. This will be reviewed in the strument. Meters reading up to 250 columns in due course.

Ferranti "B" Pewer Pack.

A. D. RILEY, LTD., has submitted to us for test a Ferranti H.T. Supply at a future date. Unit which has recently made its ap made in three distinct styles, panel pearance in New Zealand. is encased in metal, the dimensions being approximately a cubic foot. It is artistically finished in brown crystal-

The Ferranti unit is quite a departure from the usual conception of power distortionless reception, units. Upon opening the lid, in which is a patent switch which immediately cuts off the power, there are seen nine These resistances are movable, and a wired or maintained.

bodies the latest results of research on of which connects with the earthing

Ferranti Meters.

meters are now obtainable in this The portable models lish make, it has the plate connected to should appeal to the constructor or operator who is interested in examin-Advice has been received that a ing his set. These are made with as tances of 200 ohms, per volt in one type strument. Meters reading up to 250 volts or as low as 7.5 are obtainable

Through judiciously combining external resistance a milliameter can be made to fulfil many purposes, and concerning this we shall devote an article The meters are The unit mounting (flush and projecting) and portable.

> THE use of the correct type of valve is one of the secrets of successful

DVERTISING signs of the flashing electric type are capable of causwire-wound resistances which have ing almost unbearable interference in taken the place of variable knobs, neighbouring wireless sets if carelessly