

Abbreviations

A, anode. HCT, heater
C, cathode. centre tap.
D, diode anode. IH, indirectly
DH, directly heated.
heated. M, metallising.
OA, oscillator
Dr, driver. anode.
F, filament. OG, oscillator
FW, full-wave. grid.
G, grid. R, resistance.
H, heater. S, suppressor.
HW, half-wave. SG, screen-grid.
Numbers following abbreviations
are used to distinguish between
similar electrodes or to identify
electrodes employed together, i.e.,
G1, A1.

TO facilitate reference to these tables, battery and mains types are dealt with separately. This applies only to the B.V.A. types, as all side-contact valves are for universal (A.C.-D.C.) working and all Hivac midgets are for battery operation.

In each table the types of valve appear as far as possible in the order in which they are employed in receivers.

The diagrams on the facing page and to which the pin numbers in the tables refer are of the bases of the valves themselves or of the *underside* of the valve-holders.

Normally, when referring to the tables, the service engineer will be aware of the type of valve about which information is required, and the first step will be to check the number of pins with the num-

VALVE

ber of pins entered in the second column of the table.

Many Continental valves have their electrodes connected in the same order as B.V.A. types, even though the spacing of the base pins is slightly different.

American-type bases and Continental valves with unorthodox bases are to be dealt with in a further "Service Engineer" chart to be published shortly.

The same style will be followed and the two charts will form a complete guide for the service shop.

BATTERY VALVES

Valve.	No. of pins.	1	2	3	4	5	6	7	8	9	Top cap.
Frequency-changer ...	7	OA	OG	SG	F	F	M	A	—	—	G
Frequency-changer ...	9	SG	A	S	F	F	—	OA	OG	M	G
Screen-grid ...	4	SG	G	F	F	—	—	—	—	—	A
Screen-grid ...	4	A	SG	F	F	—	—	—	—	—	G
Screen-grid ...	5	A	G	F	F	SG	—	—	—	—	—
H.F. Pentode ...	4	SG	G	F	F	—	—	—	—	—	A
H.F. Pentode ...	7	M	G	S	F	F	—	SG	—	—	A
Double-diode (IH) ...	5	D1	D2	H	H	C; M	—	—	—	—	—
Double-diode-triode ...	5	A	D1	F; M	F	D2	—	—	—	—	G
Triode ...	4	A	G	F	F	—	—	—	—	—	—
Triode ...	4	A	—	F	F	—	—	—	—	—	G
Pentode ...	4	A	G	F	F	—	—	—	—	—	SG
Pentode ...	5	A	G	F	F	SG	—	—	—	—	—
Class B ...	7	G2	G1	A1	F	F	—	A2	—	—	—
Q.P.P. ...	7	G2	G1	A1	F	F	SG	A2	—	—	—
Q.P.P. ...	9	G1	A1	SG1	F	F	—	SG2	A2	G2	—
Driver/Class B ...	7	BG2	BG1	BA1	F	F	Dr.G	BA2	—	—	Dr.A

MAINS VALVES

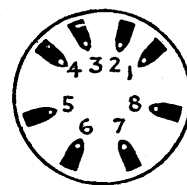
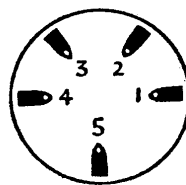
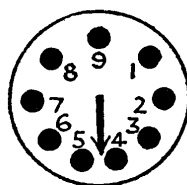
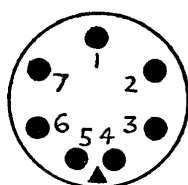
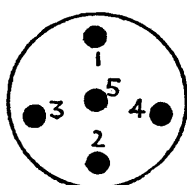
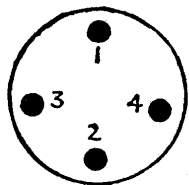
Valve.	No. of pins.	1	2	3	4	5	6	7	8	9	Top cap.
Frequency-changer ...	7	OA	OG	SG	H	H	C	A	—	—	G
Frequency-changer ...	9	SG	A	S	H	H	C	OA	OG	M	G
Screen-grid ...	5	SG	G	H	H	C	—	—	—	—	A
H.F. Pentode ...	7	M	G	S	H	H	C	SG	—	—	A
H.F. Pentode ...	7	M	A	S	H	H	C	SG	—	—	G
Double-diode ...	5	D1	D2	H	H	C	—	—	—	—	—
Double-diode ...	5	D1	M	H	H	C	—	—	—	—	D2
Double-diode-triode ...	7	D1	M	D2	H	H	C	A	—	—	G
Double-diode H.F. Pen.	9	SG	A	—	H	H	C	D	D2	M	G
Double-diode L.F. Pen.	7	D1	A	D2	H	H	C	SG	—	—	G
Single-diode S.G.	7	—	G	SG	H	H	C	D	—	—	A

(Continued on next page)

BASE CONNECTION TABLES

British 4, 5, 7 and 9 Pin B.V.A. Bases

Side-contact Types



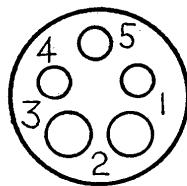
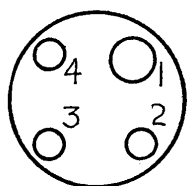
MAINS VALVES—Continued

Valve.	No. of pins.	1	2	3	4	5	6	7	8	9	Top cap.
Triode	5	A	G	H	H	C	—	—	—	—	—
Triode	7	M	—	—	H	H	C	A	—	—	G
Triode	7	—	G	—	H	H	C	A	—	—	—
Triode (D.H.) ...	5	A	G	H	H	—	—	—	—	—	—
Output Pentode ...	5	A	G	H	H	C	—	—	—	—	SG
Output Pentode ...	7	—	G	SG	H	H	C	A	—	—	—
Output Pentode ...	7	S	G	SG	H	H	C	A	—	—	G
Output Pentode ...	7	—	—	SG	H	H	C	A	—	—	G
Output Pentode ...	7	HCT	—	SG	H	H	C	A	—	—	—
Output Pentode (D.H.)	5	A	F	F	G	S	—	—	—	—	—
Double-triode (I.H.)	7	—	G1	A1	H	H	C	A2	—	—	—
Rectifier (D.H.) H.W.	4	A	—	F	F	—	—	—	—	—	—
Rectifier (D.H.) H.W. (High-voltage)	4	—	—	F	F	—	—	—	—	—	A
Rectifier (I.H.) H.W. ...	5	A	—	H	H	C	—	—	—	—	—
Rectifier (I.H.) F.W. ...	5	A	A	H	H	C	—	—	—	—	—
Rectifier (I.H.) F.W. or V.D.	7	HCT	A1	C1	H	H	C2	A2	—	—	—
Barretter	4	—	—	R	R	—	—	—	—	—	—

SIDE-CONTACT VALVES

Valve.	No. of contracts	1	2	3	4	5	6	7	8	Top cap.
Frequency-changer ...	8	M	H	H	C	OA	OG	SG	A	G
H.F. Pentode	8	M	H	H	C	S	—	SG	A	G
Double-diode	5	M	H	H	C	D1	—	—	—	D2
Double-diode	5	D1	H	H	C	D2	—	—	—	—
Triode	8	M	H	H	C	—	—	—	A	G
Output Pentode	8	—	H	H	C	—	—	SG	A	G
Rectifier (H.W.)	8	—	H	H	C	—	—	—	A	—
Rectifier (F.W.)	8	C1	H	H	C2	A1	—	—	A2	—
Barretter	8	—	—	—	—	R	—	—	R	—

HIVAC MIDGET VALVES



These are the four and five pin bases employed for the Hivac midget valves.

Valve.	No. of pins or contacts.	1	2	3	3	5	Top cap.
Screen - grid (D.H.)	4	G	F	F	SG	—	A
Triode	4	G	F	F	A	—	—
Pentode	5	A	F	F	SG	G	—