

# Equivalent tubes

K. I. Drozdov "West-European receiving tubes", Moscow, 1948

К. И. Дроздов "Справочник по западно-европейским приёмным лампам", Москва, 1948

The left - non-standard, the right - standard European marking.

## Castilla

A4AM7	AF7	U6CAT	EM1
A4AMS2	AF2	UAM	CF1
A4AM3	AF3	UAMS	CF2
A4AM7	AF7	UDD	CB1
A4CAT	AM1	UFC	CL2
A4DD	AB1	UFF	CL1
A4FF2	AL2	UGDR	CK1
A4FF4	AL4	UR1	CY1
A4GDR	AK1	UR2	CY2
R805	AZ1		

## Clarion

AC/VHP      AF2

## Dario (Impex)

BBC12	KBC1	TBC113	CBC1
BF42	KF4	TBL226	BL2
BK22	KK2	TE4	AB1
BL22	KL2	TE504	AK1
ED78	EM1	TE564	AF2
TB13	CB1	TE313	CF3
TB4313	CL1	TE713	CF7
TB4320	CL2	TK1	AK1
TB4613	CF1	TL34	AL4
TB5013	CK1	TM14	AM1
TB5613	CF2	TW1	CY1
TB8013	CC2	TW2	CY2

## Dario (Radiotechnique)

AD77	AM1	TZ3	AZ4
ED78	EM1	UB1	CB1
PB2	KB2	UB2	CB2
PBC1	KBC1	UBC1	CBC1
PC3	KC3	UC2	CC2
PF1	KF1	UF1	CF1
PF2	KF2	UF2	CF2
PF3	KF3	UF3	CF3
TB1	AB1	UF7	CF7
TB2	AB2	UH1	CH1
TBC1	ABC1	UK1	CK1
TC2	AC2	UL1	CL1

TCH1	ACH1	UL2	CL2
TF2	AF2	UY1	CY1
TF3	AF3	UY2	CY2
TF7	AF7	VB1	EB1
TH1	AH1	VC2	EC2
TK1	AK1	VF1	EF1
TK2	AK2	VF2	EF2
TL1	AL1	VK1	EK1
TL2	AL2	VL1	EL1
TL3	AL4	VZ1	EZ2
TZ1	AZ1		

**Everready**

A39A	AM1
A50N	AF2

**Ferranti**

VPT4B	AF2
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**Hivac**

AC/DD	AB1
AC/Z	AL4

**Hoges**

VG3116	AZ12
VG5107	AZ11
VG5007	AZ1

**Lissen**

AC/SPV	AF2
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**Loewe (Opta)**

4D1	AB2	13H1	CF7
4E1	AL4	13H3	CH1
4E2	AL5	13M1	CK1
4H1	AF7	13V1	CBC1
4H2	AF3	24M2	BCH1
4H3	AH1	24NG	CY1
4M1	AK2	30NG	CY2
4M2	ACH1	33E1	CL4
4V1	ABC1	140NG	AZ1
13D1	CB2	241NG	AZ12
13D2	CB1		

**Marathon**

G223	AZ1
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**Marconi-(Osram)**

KTW21	KF2
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**Mullard**

2D4	AB1	TDD2	KBC1
2D6A	EB4	TDD4	ABC1

2D13	CB1	TDD6	EBC3
2D13A	CB2	TDD13	CBC1
FC2A	KK2	TV4	AM1
FC4A	AK2	TV4A	AM1
FC6	EK2	TV6	EM1
FC13	CK1	TV6A	C/EM2
HL13	CC2	UR1	CY1
PenA4	AL4	UH2	CY2
PenB4	AL5	UR3	CY2
Pen13	CL1	VP2	KF2
Pen13A	CL4	VP4A	AF2
Pen26	CL2	VP6	EF5
SP6	EF6	VP13A	CF2
SP13	CF1	VP13D	CF3

### Novis

ACMO4	AK1	UVG51	CY2
BDN2	KBC1	WDD4	AB2
BF2	KF4	WEP4	CF3
BO2	KK2	WHP4	AF7
BS2	KF3	WMO4	AK2
FW100	AZ1	3BP2	KL4
UDD20	CB2	3RDDP6	EBL1
UDDT20	CBC1	3REP6	EL3
UEP20	CF3	3RKP6	EL5
UFW200	CY2	3UDDP20	CBL1
UHP200	CF7	3UHP20	CL4
UMO20	CK1	3UP4	CL2
UMO51	CK1	3ZP4	AL5

### Oxytron

DE6	AZ1
DP7	AL1
UP2	CL2
UP5	CL4
VT3	AC2

### Sator (Orion)

DLP51	AL1	UDD51	CB2
DVG51	AZ1	UDDT51	CBC1
NDD40	AB1	UDD80	BB1
NDD51	AB2	UEP51	CF3
NDDT51	ABC1	UHP52	CF7
NEP51	AF3	ULP51	CL2
NHP51	AF7	UMO51	CK1
NLP61	AL4	UVG51	CY2
NMO46	AK1	VEG51	CY1
NMO51	AK2		
NT51	AC2		

### Standard (Micromesh)

1D5	CY1
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**Triotron**

D200	KB2	P496	AL4
D201	KB1	P626	EL1
D400	AB2	P628	EL2
D401	AB1	P670	EL5
D601	EB1	P695	EL3
D604	EB4	P1320	CL1
D1300	CB2	P2046	CL2
D1301	CB1	P2060	CL2
DP495	ABL1	P2460	BL2
DP695	EBL1	P3580	CL4
DT215	KBC1	S209	KF3
DT436	ABC1	S210	KF4
DT620	EBC3	S215	KF2
DT1336	CBC1	S217	KF2
DP3580	CBL1	S218	KF1
G459	AZ1	S423	AF3
G650	EZ1	S424	AF7
G660	EZ2	S432	AF2
G1380	FZ1	S617	EF5
G2080	CY1	S620	EF6
G3060	CY2	S628	EF2
G6175	EZ4	S629	EF1
H425	AH1	S1323	CF3
H625	EH1	S1324	CF7
H1325	CH1	S1327	CF2
O202	KK2	S1328	CF1
O406	AK2	T204	KC1
O407	AK1	T223	KC3
O606	EK2	T435	AC2
O607	EK1	T460	AD1
O1307	CK1	T635	EC2
P210	KL1	T1335	CC2
P220	KL2	TH401	ACH1
P226	KL4	TK406	AM1
P434	AL1	TK606	EM1
P445	AL2	TK607	C/EM2
P469	AL5	TT210	KDD1
P495	AL4		

**Tungsrarn**

		PP6AS	EL2
CB215S	KDD1	PP6BS	EL3
DD13S	CB2	PP24S	CL2
DD465	AB1	PP35	CL4
DD818	BB1	PP225S	KL2
DDT2BS	KBC1	PV30	CY2
DDT6S	EBC3	PVA6S	EZ2
DDT13	CBC1	PVB6S	EZ3
HL13S	CC2	PVC6S	EZ4
HP4115	AF2	VO6S	EK2
HR2S	KC1	VO13S	CK1
LL2S	KC3	VP2BS	KF3

MO210	KK2	VP6S	EF5
MO465	AK1	VX2S	KH1
PP2	KL4	VX6S	EH2

**Ultron**

2B1	KF1	6E2	EF6
2B2	KF2	6E3	EBC3
2B3	KF3	6E4	EBF1
2B4	KF4	6E5	EL2
2B5	KK2	6E6	EL3
2B6	KB2	6E7	EL5
2B7	KC3	6E8	EK2
2B8	KDD1	6E9	EH2
2B9	KL2	6E10	EBL1
2B10	KBC1	6E11	EM1
2B15	KL4	6E12	C/EM2
4A11	AF2	6R2	EZ2
4A12	AK1	6R3	EZ3
4A13	AB1	6R4	EZ4
4A16	AK2	13U1	CF1
4A17	AF3	13U2	CF2
4A18	AF7	13U3	CK1
4A19	AH1	13U4	CB1
4A20	AC2	13U5	CL2
4A21	AB2	13U6	CY1
4A22	ABC1	13U7	CY2
4A24	AL2	13U10	CF3
4A26	AL4	13U11	CF7
4A27	AL5	13U12	CH1
4A28	AD1	13U13	CC2
4A29	ABL1	13U14	CB2
4A30	AM1	13U15	CBC1
4A31	AM2	13U16	CL1
4A33	AL1	13U17	CL4
4R3	AZ1	13U18	CBL1
6E1	EF5		

**Vatea**

BB630	EB1	RE2020	CY1
BB1320	CB1	RE3020	CY2
BB4110	AB1	RG1320	CC2
HRV4110	ACH1	SO630	EK1
MT1330	CF2	SO1320	CK1
MT4120	AF2	SO4110	AK1
NT630	EF2	ST630	EF1
NT1320	CF2	ST1320	CF1
NT4110	AF2	TG2020	CL2
OG1320	CK1	TL1320	CL1
OV630	EK1	TV630	EL1
OV4110	AK1	VG421	KF1
RE1330	FZ1		

**WE**

WE12	EM4	WE35	AL1
WE14	EL6	WE36	AB2
WE15	EL3	WE37	ABC1
WE17	EF1	WE38	AL4
WE18	EFM1	WE39	AC2
WE19	EBF2	WE40	ACH1
WE20	ECH11	WE41	ABL1
WE21	AK1	WE42	AL5
WE22	ACH1	WE43	ACH1C
WE25	AF2	WE53	AZ4
WE31	AB1	WE54	AZ1
WE32	AK2	WE55	AZ1
WE33	AF3	WE56	AZ4
WE34	AF7		

**Number series**

<b>Telefunken</b>	<b>Philips</b>	<b>Tungsram</b>	<b>Telefunken</b>	<b>Philips</b>	<b>Tungsram</b>
RE034	A425	HR406	RENS1224	E448	MH4100
RE074	A409	G407	RENS1234	E449	EH4105
RE074d	A441N	DG407	RENS1254	E444	DS4100
RE084	A415	LD408	RENS1264	E462	AS4120
RES094	A442	S406	RENS1274	E455	AS4125
RE114	B406	P414	RENS1284	E446	HP4101
RE134	B409	L414	RENS1294	E447	HP4106
RES164	B443S	PP416	RENS1374d	E453	APP4120
RES174d	B443	PP415	RENS1384	E463	APP4130
RE304	C405	P430	REN1814	B2099	
RES364	C443	PP430	REN1817d	B2041	DG2018
RES374d	C443N	PP431	REN1818	B2052t	SS2018
RE604	D404	P460	RENS1819	B2045	SE2018
RE614	E408N	P4100	RENS1820	B2042	S2018
RES664d	E443N	PP4100	REN1821	B2038	R2018
REN704d	E441N	DG4101	RENS1823d	B2043	PP2018d
REN904	E424N	AG495	RENS1824	B2048	MH2018
REN914	E499	AR4120	REN1826	B2044S	
REN924	E442S		RENS1834	B2049	FH2018
RES964	E443H	PP4101	RENS1854	B2044	DS2218
REN1204	E4425	AG4100	RENS1884	B2046	HP2018
RENS1214	E445	AS4104	RENS1894	B2047	HP2118

## Barretter and Urdox

### Castilla

URL200 C1

### Dario-Impex

U1 C1

### Marconi-Osram

201 C1

202 C1

204 C1

### Triotron

V70 C2

V70U C4

V140 C1

V140/70 C12

V140U C3

### Tungsrarn

200R1 C1

R2001 C1

200R11 C2

R20011 C2

### Mullard

B13 C1

B13A C2

B13B C3

### Novis

DC200 C1

DC210 C2

### Ultron

UC1 C1

UC2 C2

UC3 C3

UC8 C8

UC9 C9

### Vatea

CV1 C1

CV2 C2

CV3 C3