

SCREEN GRID VALVES

Type	Filament		Max. Anode	Opt. Screen	Anode	Screen	Max. Amp	Bias	Maximum	Price
	Volts	Amps.	Volts	Volts	Current	Current	Factor	Resistance	Slope	
HP 210	2	0.12	150	150	1.9	0.7			1.9	12/6
S210	2	0.12	200	100	1.5	0.4	400		1.2	12/6
AS 4120*	4	1.0	200	100	3.0	0.8	900	150	3.0	14/6
HP 4100*	4	1.0	200	100	3.0	1.2	5,000	200	3.5 max.	14/6
HP 2018†	20	0.18	200	100	4.0	1.2	5,000	200	3.5	14/6
SS 2018†	20	0.18	200	100	3.0	1.0	900	200	3.0	14/6
S 2018†	20	0.18	200	60	4.0	1.2	400	300	1.2	14/6
HP 1018†	10	0.18	250	150	2.3	0.6	1,250	300	1.25	14/6
57†	2.5	1.0	250	100	2.3	0.5	1,250	300	1.25	14/6
77†	6.3	0.3	250	100	2.3	0.6	1,250	300	1.25	14/6
24A	2.5	1.75	275	90	4.0	1.7	630	300	1.0	14/6

VARIABLE-MU VALVES

Type	Filament		Max. Anode	Opt. Screen	Average	Average	Amp.	Bias	Mutual	Min.	Max.	Price
	Volts	Amps.	Volts	Volts	Current	Current	Factor	Resistance	Conductance	Bias	Bias	
HP 211	2	0.12	150	150	2.5	0.6			1.7	0.0015	0	7
SE 220	2	0.18	200	100	3.0	0.5	400		1.2	0.01	0	15
HP 4105*	4	1.0	200	100	5.0	1.1	2,000	150-5,000	3.5	0.02	2	35
AS 4125*	4	1.2	200	100	3.0	0.8	700	150-5,000	3.0	0.05	1.5	24
HP 1118†	10	0.18	250	150	10.5	3.0	1,650	150-10,000	1.6	0.01	3	52
HP 2118†	20	0.18	200	100	5.0	1.1	2,000	150-5,000	3.5	0.02	2	35
SE 2118†	20	0.18	200	100	3.0	0.8	700	150-5,000	3.0	0.05	1.5	24
SE 2018†	20	0.18	200	60	4.0	1.1	400	200-5,000	1.2	0.03	2	40
58†	2.5	1.0	250	150	10.5	3.0	1,650	150-10,000	1.6	0.01	2	52
78†	6.3	0.3	250	150	10.5	3.0	1,650	150-10,000	1.6	0.01	2	52
35	2.5	1.75	275	90	6.5	2.5	400	200-10,000	1.0	0.01	2	45

TRIODES (Resistance greater than 7,000 ohms)

Type	Filament		Max. Anode	Average Anode	Impedance	Slope	Amplification	Grid	Bias	Price
	Volts	Amps.	Volts	Current			Factor	Bias	Resistance	
HR 210	2.0	0.1	200	1.0	23,000	1.3	30	1.5		5/6
LD 210	2.0	0.1	150	3.0	14,000	1.3	18	3.0		5/6
AG 495*	4.0	1.0	200	6.0	7,000	3.5	25	6.0	1,000 (1/2W)	10/6
AR 4101*	4.0	1.0	200	3.0	13,000	3.0	40	2.5	1,000	10/6
AR 495*	4.0	1.0	200	2.5	17,000	5.0	85	1.5	300	10/6
R 2018†	20.0	0.18	200	2.5	13,000	3.0	40	2.5	1,000	10/6
G 2018†	20.0	0.18	200	6.0	7,000	3.5	25	6.0	1,000	10/6
56	2.5	1.0	250	5.0	9,500	1.45	13.8	13.5	2,500	10/0
27	2.5	1.75	250	6.0	9,000	1.0	9.0	21	3,500	10/0

*Indirectly heated A.C.

†Indirectly heated Universal A.C./D.C.

‡High Frequency Pentodes.

TRIODES (Resistance below 7,000 ohms)

Type	Filament		Max. Anode	Average Anode	Grid	Max. Dissipation	Impedance	Slope	Optimum	Power	Bias	Price
	Volts	Amps.	Volts	Current	Bias				Load	Output	Resistance	
P 215	2	0.15	150	10	9		3,300	1.5	7,000	260		7/0
LP 220	2	0.2	150	4	4.5		3,900	3.5	7,500	200		7/3
SP 220	2	0.2	150	15	15		2,200	3.0	7,700	360		7/3
AP 495*	4	1.0	250	20	18	5.0	2,500	4.0	7,000	900	900 (1/2W)	13/0
SP 414†	4	0.15	200	12	12	2.5	1,700	3.0	7,000	450	1,000 (1/2W)	9/0
P 430†	4	0.3	250	25	30	7.5	2,200	2.5	7,000	800	1,200 (1W)	11/6
P 460†	4	0.6	220	50	35	12.5	1,100	3.5	7,000	1,500	700 (2W)	13/6
P 4100†	4	1.0	400	40	37	16	1,400	5.0	7,000	3,500	1,000 (2W)	14/0
P 2018†	20	0.18	200	20	18	5	2,500	4.0	7,000	900	900 (1W)	13/0
112	5	0.25	180	7.5	13.5	2.5	4,700	1.8	7,600	275	2,000 (1/2W)	11/6
171	5	0.25	180	20	40	3.0	1,750	1.8	7,000	800	2,000 (1W)	11/6
45	2.5	1.5	275	36	56	8.5	1,750	2.0	7,000	2,000	1,500 (2W)	12/0
PX 2100	7.5	1.25	425	18	39	15	5,000	1.6	7,000	1,600	2,000 (1W)	30/0
50	7.5	1.25	450	55	85	25	1,800	2.1	7,000	4,600	1,800 (5W)	30/0

OUTPUT PENTODES

Type	Filament		Max. Anode	Max. Screen	Average Anode	Average Screen	Grid	Slope	Optimum	Max. Output	Bias	Price
	Volts	Amps.	Volts	Volts	Current	Current	Bias		Load		Resistance	
PF 220	2	0.2	200	150	6	2	6	2.5	14,000	400		14/0
PF 230	2	0.3	200	150	12	4	16	2.0	11,000	600		14/0
PP 415†	4	0.15	250	150	12	4	16	2.0	11,000	600		14/0
PP 431†	4	0.3	300	200	20	5	42	2.6	12,000	1,200	2,000 (1W)	15/0
PP 4101†	4	1.1	250	250	36	7	22	3.5	7,500	2,500	600 (2W)	16/0
PI 4100†	4	1.0	400	300	40	7	40	3.0	7,500	3,000	1,000 (2W)	16/0
APP 4100*	4	1.0	400	300	40	7	40	3.0	7,500	3,000	1,000 (2W)	17/0
APP 4130*	4	1.3	250	250	36	7	22	2.7	7,500	2,500	600 (2W)	17/0
APP 4120*	4	1.2	350	250	32	8	18	3.5	7,500	3,000	500 (2W)	17/0
PP 2018†	20	0.18	200	200	20	5	18	2.5	8,800	1,400	750 (2W)	17/0
PP 4018†	40	0.18	180	180	45	9	22	3.0	3,000	3,400	600 (2W)	17/0
PP 4118†	40	0.18	180	180	35	7	10	6.5	5,000	3,000	250 (1W)	17/0
2A5	2.5	1.75	250	250	34	6.5	16.5	2.2	7,000	3,000	400 (2W)	15/0
42	6.3	0.7	250	250	34	6.5	16.5	2.2	7,000	3,000	400 (2W)	17/6
43	25.0	0.3	135	135	34	7	20	2.3	4,000	2,000	600 (2W)	17/6
47	2.5	1.75	250	250	31	6	16.5	2.5	7,000	2,700	450 (1W)	15/0

MULTIPLE DIODE TYPES

Type	Description	Filament	Max. Anode	Max. Screen	Anode	Diode or	Grid	A.C.	Amplification	Mutual	Price
		Volts	Volts	Volts	Current	Screen	Bias	Resistance	Factor	Conductance	
DS 4101*	Diode-tetrode	4	1.0	200	90	0.8	1.0	2.3.5	2,500,000	2,000	0.7
DDT 4160*	Double-Diode-Triode	4	1.6	200		3.0	2 x 1.5	2.5	13,000	40	3.0
DD 465†	Double-Diode	4	0.65	100			2 x 1.5				
D 418†	Diode	4	0.18	100			1.5				
DD 818†	Double-Diode	8	0.18	100			2 x 1.5				
55	Double-Diode-Triode	2.5	1.4	250		8.0		20.0	7,500	8.3	1.1
2A6	Double-Diode-Triode	2.5	1.5	250		0.8		2.0	91,000	100	1.1
DP 1018†	Double-Diode-Pentode	10	0.18	250	150	2.3	0.6	3.0		1,250	1.25

*Indirectly heated A.C.

†Indirectly heated Universal A.C./D.C.

‡Directly heated A.C.

CLASS "B" VALVES

Type	Filament	Max. Anode	Quiescent	Anode Current	Input	Grid	Load	Power	Recommended	Recommended	Price
	Volts	Amps.	Volts	(total)	Impedance	Bias	Resistance	Output	Driver	Driver Transformer	
CR 220	2	0.2	150	2.5	7	4,000	0	16,000	LP 220	1.5-1	11/0
PX 46†	2	3.0	400	14	108	900	0	5,800	AP 495	2.1	14/6
DG 2018†	20	0.18	200	6	57	1,400	0	6,000	P 2018	2.1	17/0

*Characteristics given for a pair of Valves.

†Indirectly heated Universal A.C./D.C.

FREQUENCY CHANGERS

Type	Filament	Volts	Max. Anode	Screen	A.C.	Oscillator	Conversion	Conductance	Remarks	Price
	Volts	Amps.	Volts	Volts	Resistance	Anode	Volts	Min.	Max.	
DG 210-0	2	0.12	100	20	5,000				1.0	Double Grid
MH 1118†	10	0.18	200	100	700,000	130	1.5		470	(V.M.) Pentagrid (Heptode)
MH 4105*	4	1.0	250	100	360,000	150	1.5		520	
2A7	2.5	0.8	250	100	360,000	150	1.5		520	
6A7	6.3	0.3	250	100	360,000	150	1.5		520	

*Indirectly heated A.C.

†Indirectly heated Universal A.C./D.C.

RECTIFYING VALVES

Type	Filament	Type of Rectifier	Max. Anode	Max. D.C. Output	Half Current Output	Price
	Volts	Amps.	Volts	Volts	mA.	
V 495	4	1.1	Half Wave	500	480	10/0
PV 495	4	1.0	* Full Wave	300-0-300	300	10/0
PV 4201	4	2.0	Full Wave	600-0-600	575	15/0
APV 4200*	4	2.0	Full Wave	350-0-350	350	12/6
V 2018†	20	0.18	Half Wave	250	250	10/6
V 2118†	20	0.18	Half Wave	250	250	10/6
PV 4018†	40	0.18	Voltage Doubler	220	210	15/0
PV 3018†	30	0.18	Voltage Doubler	250	240	15/0
31	7.5	1.25	Half Wave	750	650	17/6
80	5.0	2.0	Full Wave	300-0-300	270	8/0
25Z5	25.0	0.3	Voltage Doubler	125-0-125	180	15/0

*Indirectly heated.

†Indirectly heated Universal A.C./D.C.