

PHILIPS RECTIFIER VALVES

for Receivers, Power Amplifiers and Cathode Ray Tubes

		Type Number	Maximum Dimensions ²⁾ mm	Base (Connection reference in brackets)	Filament data			Anode data	
					Heating	Voltage Volts	Current appr. amps.	Max. A.C. no. load voltage Volts R.M.S.	Max. D.C. current mA
For A.C. mains receivers	Full-wave high-vacuum	EZ4	85 × 37	P30 (45)	indir.	6,3	0,9	2 × 400	175
		AZ1	110 × 53	P35 (44)	dir.	4,0	1,1	2 × 500 2 × 300	60 100
		1801	93 × 47	A35 (5)	dir.	4,0	0,5	2 × 250	30
		506	105 × 51	A35 (5)	dir.	4,0	1,0	2 × 300	75
		1817	160 × 67	A40 (5)	dir.	4,0	4,0	2 × 350	300
		1805	116 × 53	A35 (5)	dir.	4,0	1,0	2 × 500	60
		1561	125 × 51	A35 (5)	dir.	4,0	2,0	2 × 500 2 × 350	120 160
		1815	145 × 59	A40 (5)	dir.	4,0	2,5	2 × 500	180
		1831	145 × 59	A35 (5)	dir.	4,0	1,0	2 × 700	60
	Half-wave high-vacuum	1802	92 × 46	H32 (14)	dir.	4,0	0,4	250	30
		1803	100 × 52	H35 (14)	dir.	4,0	0,6	500	30
		1832	145 × 60	H35 (14)	dir.	4,0	1,3	700	120
For AC/DC receivers	Half-wave high-vac.	CY1	102 × 43	P30 (43)	indir.	20	0,200	250	80
		CY2	100 × 44	P30 (46)	indir.	30	0,200	1 × 250 2 × 127 ¹⁾	120 60
For car-radio receivers	Full-wave high-vac.	EZ2	85 × 37	P30 (45)	indir.	6,3	0,4	2 × 350	60
		FZ1	91 × 37	P30 (45)	indir.	13	0,25	2 × 250	50
For amplifier installations	Full-wave gas-filled	AX1	110 × 47	A35 (5)	dir.	4,0	2,0	2 × 500 ³⁾	125
	Half-wave high-vac.	4646	145 × 60	W42 (55)	dir.	4,0	1,3	1000	75
For cathode ray oscillographs	Half-wave high-vac.	1875	145 × 50	P35 (42)	dir.	4,0	2,3	7000	5
		1876	97 × 52	P35 (41)	dir.	4,0	0,3	850	5
—	gasfilled	1018⁴⁾	—	—	dir.	1,8	1,8	16	200

¹⁾ As voltage doubler. ²⁾ Without pins.
⁴⁾ Rectifier for charging purposes.

³⁾ Voltage drop in the valve = 15 V.

PHILIPS HEATING CURRENT REGULATOR TUBES

	Type Number	Maximum dimensions ⁶⁾ mm	Base (Connection reference in brackets)	Voltage control range Volts	Maximum operating voltage Volts	Regulated current rating mA	Max. voltage across the tube when switching on Volts
For AC/DC valves without switching on current limiting resistance	C1	125 × 39	P30 (48)	80—230	200	200	250 ²⁾
	C2	115 × 39	P30 (48)	35—100	100	200	160 ²⁾
	C8	125 × 39	P30X (50)	80—230	200	200	250 ¹⁾
	C9	115 × 39	P30Z (52)	35—100	100	200	160 ²⁾
	C10	115 × 39	P30Y (51)	35—100	100	200	160 ²⁾
	C12	142 × 41	P30 (49)	80—200 35—100	200 100	200	250 ¹⁾ 160 ²⁾
For AC/DC valves with a switching on current limiting resistance	C3	125 × 39	P30X (50)	100—200	200	200	250
	C4	105 × 39	P30Y (51)	55—105	105	200	160
	C6	125 × 39	P30 (48)	70—140	140	200	160
	C7	105 × 39	P30 (48)	35—70	70	200	110
For indir. heated D.C. valves	1926⁴⁾	105 × 33	A32 (6)	16 ⁵⁾	—	180	—
	1927	115 × 38	A35 (6)	35—100	—	180	—
	1928	125 × 38	A35 (6)	100—225	—	180	—
For dir. heated D.C. valves	1904	90 × 36	A32 (6)	50—70	—	100	—
	1911	90 × 36	A32 (6)	50—70	—	150	—
	1915	115 × 38	A32 (6)	50—70	—	240	—
	1920	115 × 38	A32 (6)	50—70	—	250	—
For indir. heated valves	1941	140 × 50	A35 (6)	77—200	200	300	250 ¹⁾
	1949	95 × 38	A35 (6)	30—90	90	300	127 ³⁾
	1910	90 × 33	H32 (15)	4,5—14,5	—	1440	—

¹⁾ The total heating current of the receiving valves in series with the regulator tube must be at least 52 volts.
²⁾ The total heating current of the receiving valves in series with the regulator tube must be at least 74 volts.
³⁾ The total heating current of the receiving valves in series with the regulator tube must be at least 63 volts.
⁴⁾ Resistance tube.
⁵⁾ Voltage drop in the resistance.
⁶⁾ Without pins.