

12.12.40

TYPE AV11

Half Wave High Vacuum Rectifier

Tentative ratings

Filament voltage 2.5 volts.

Filament current 1.75 amp.

Peak inverse voltage 14,500 volts.

Maximum average plate current 30 mA.

Maximum peak plate current 350 mA.

Amalgamated Wireless Valve Co. Pty. Ltd.

6000-242F

THE VALVE IN THIS CARTON IS MANUFACTURED
UNDER ONE OR MORE OF THE FOLLOWING
PATENTS:—

PATENTED.

| AUST. PAT | DATE. | N.Z. PAT. | DATE. |
|-----------|---------|-----------|---------|
| 3134/26 | 10/8/25 | 56936 | 10/8/25 |
| 11182/28 | 9/1/28 | — | — |
| 11848/28 | 21/2/28 | — | — |
| 19351/29 | 10/4/28 | 62387 | 10/4/28 |
| 28371/30 | 21/8/29 | 65475 | 21/8/29 |
| 18393/34 | 22/8/33 | 72841 | 22/8/33 |
| 24472/35 | 29/9/34 | 74963 | 29/9/34 |



Service Report on Radiotron Valve

TYPE AV 11

RADIOTRON Transmitting Valves are guaranteed to be free from electrical and mechanical defects. Should this Radiotron valve fail prematurely when operated within the manufacturer's recommended ratings, this service report should be completed and returned with the transmitting valve—not later than one year from date of receipt of valve—to the firm from which it was purchased for test and examination.

The valve should be packed carefully and freight charges prepaid.

Plate or Valve Serial No. From whom purchased Purchase Order No.
Date received Date first tested
Date placed in service Date inoperative
Number of hours in operation: Filament excitation Hours with plate voltage
Nature of defect

Any peculiar phenomena occurring when valve became inoperative

Name of manufacturer and type number of equipment in which valve was used

Was valve mounted vertically With filament-end up Down
Was valve mounted horizontally With plate on edge On side
What means were used to prevent vibration or shock

If air cooled—Was ventilation forced Free circulation
Valve enclosed in set

CONDITIONS OF OPERATION

| | | Plate Max. | Filament Av. |
|--------------------------------|-------|-------------------------------|--------------|
| Supply voltage—Rms..... | | | |
| Supply voltage—Per leg..... | | | |
| Type of Circuit | Check | Value | Units |
| Single-phase | | Supply Voltage Frequency .. | Cycles |
| Three-phase, half-wave | | D-c output | Volts |
| Three-phase, full-wave | | D-c output—Total | Amp. |
| Three-phase, double Y | | Filament voltage variation .. | % |

Number of valves in rectifier circuit.....
Was condenser or choke coil used next to valve in filter circuit.....
Were individual filament voltmeters used..... Means used to apply plate voltage: Direct
Regulator..... Resistances.....
Means used to delay application of plate voltage until filament is heated—Switch.....
Relay..... Period of Delay.....
Method of cooling—Air..... Water.....
Ambient air temperature during operation: Maximum..... Minimum..... Average.....
Type number or inside diameter of water jacket.....
Water-cooling system used.....
Number of water jackets in series..... Water temperature—Inlet.....
Outlet..... Gallons flow per minute.....
Cooling water—Hard..... Soft.....

| | Plate | Screen | Grid | Filament |
|--|-------|--------|------|--------------|
| Maximum loaded or key-down voltage D-c | | | | (A-c or D-c) |
| Stand-by voltage D-c | | | | (A-c or D-c) |
| No signal, or key-up voltage D-c | | | | (A-c or D-c) |
| Maximum loaded or key-down current D-c | | | | |
| No signal currents D-c | | | | |
| Voltage obtained from (state source) | | | | |
| Series or output resistance ohms | | | | |

Check class of service: A..... B-Audio..... B-Radio..... C-Plate modulated..... C-Telegraphy.....
Frequency..... Kc. Peak modulation..... % Peak output per valve..... Kw.
Method of keying.....
Did valve operate in parallel with other valves..... In push-pull..... How many.....
Was separate grid adjustment made.....
Were following used? Individual plate meters..... Grid series resistance.....
Grid choke..... Grid gap.....
Plate supply fuse..... Value..... Where.....
High-frequency current fuse..... Value..... Where.....
Method of connecting screen voltage source..... Means used to apply filament voltage.....
..... Number of times per day.....
Did valve show an unequal division of the load by overheating.....
Was plate operating colour dark..... Dull red..... Bright red..... Uneven.....

Date..... Filled out by.....
Approved by..... Station.....
No..... Street..... City..... State.....

In returning a transmitting Radiotron for test and examination, the customer gives permission to Amalgamated Wireless Valve Co. Pty. Ltd., to break the glass bulb and to dissect the structure of the valve, in case such procedure is considered necessary, for a complete examination of the valve to determine whether or not the failure was caused by a manufacturing defect. Moreover, the customer agrees that, in event such procedure is necessary, he will not hold Amalgamated Wireless Valve Co. Pty. Ltd. liable for the return of any valve so dissected.

TO BE FILLED IN FOR AIR-COOLED VALVES ONLY.

TO BE FILLED IN FOR RECTIFIER VALVES ONLY.