



MAZDA DC MAINS VALVES

Available for Replacement Purposes

SCREENED GRID VALVES

DC.2/SG.

DC.2/SG.VM.

The Mazda DC.2/SG valve is an indirectly heated "straight" screened-grid valve, while the DC.2/SG.VM has variable-mu characteristics. Owing to their low anode-to-grid capacity, a very high amplification per stage is possible without instability.

CHARACTERISTICS.

| | DC.2/SG | DC.2/SG.VM |
|-------------------------------------|---------|------------|
| Filament Voltage (approx.) ... | 20 | 20 |
| Filament Amps. ... | 0.1 | 0.1 |
| Max. Anode Voltage ... | 200 | 200 |
| Max. Screen Voltage ... | 100 | 100 |
| †Amplification Factor ... | 1,200 | 1,200 |
| †Mutual A.C. Conductance (mA/V) ... | 1.5 | 1.5 |
| *Mutual Conductance ... | — | 0.05 |
| †Ea=200, Es=60, Eg=—1.5 | | |
| *Ea=200, Es=60, Eg=—30 | | |
| Price ... | 17/6 | 17/6 |

POWER OUTPUT TRIODE

DC.2/P.

Designed for use in the output stage of D.C. receivers, this valve will deliver adequate power output to operate moving-coil or power-cone speakers. A suitable resistance for obtaining self-bias is 750 ohms, the optimum load being 6,000 ohms. The resistance of the grid-to-cathode circuit should not exceed 250,000 ohms.

CHARACTERISTICS.

| | |
|-------------------------------------|-------|
| Filament Current (Amps.) ... | 0.1 |
| Filament Voltage (approx.) ... | 35 |
| Maximum Anode Voltage ... | 200 |
| *Amplification Factor ... | 10 |
| †Mutual A.C. Conductance (mA/V) ... | 3.75 |
| *Anode A.C. Resistance ... | 2,650 |
| *Ea=100, Eg=0. | |
| Price ... | 14/- |

TRIODE AND DOUBLE DIODE-TRIODE

DC.3/HL.

DC.2/HL.DD.

The Mazda DC.3/HL is the D.C. equivalent of the AC/HL, a very popular valve in the A.C. mains range. The addition of the double diode in the DC.2/HL.DD enables A.V.C. to be utilised to the best advantage in D.C. mains sets. The two diodes are completely independent and are entirely screened from the triode portion.

CHARACTERISTICS.

| | DC.3/HL. | DC.2/HL.DD. |
|--|----------|-------------|
| Filament Volts (approx.) ... | 25 | 25 |
| Filament Amps. ... | 0.1 | 0.1 |
| Maximum Anode Voltage ... | 200 | 200 |
| *Amplification Factor ... | 35 | 35 |
| †Mutual A.C. Conductance (mA/V) ... | 3.0 | 3.0 |
| *Anode A.C. Resistance (ohms) ... | 11,700 | 11,700 |
| *at Ea=100, Eg=0. | | |
| Price ... | 13/6 | 13/6 |
| Heater Volts ... | 25 | 25 |
| Heater Amps. ... | 0.1 | 0.1 |
| Triode section. | | |
| Anode Volts ... | 200 | 200 |
| Maximum Voltage between Heater and Cathode ... | 150 | 150 |
| *Mutual Conductance (mA/V) ... | 2.0 | 2.0 |
| Amplification Factor ... | 30 | 30 |
| Anode A.C. Resistance (ohms) ... | 15,000 | 15,000 |
| *Ea=100, Eg=0. | | |
| Price ... | 15/6 | 15/6 |

POWER OUTPUT PENTODE

DC.2/PEN.

The DC.2/Pen. is a well-known and remarkably successful, super-power Pentode for use in the output stage of D.C. receivers. It is primarily designed for the operation of moving-coil speakers at full volume.

CHARACTERISTICS.

| | |
|-------------------------------------|------|
| Filament Volts (approx.) ... | 35 |
| Filament Amps. ... | 0.1 |
| Maximum Anode Voltage ... | 250 |
| Maximum Screen Voltage ... | 200 |
| †Mutual A.C. Conductance (mA/V) ... | 2.5 |
| *Ea=100, Es=100, Eg=0. | |
| Price ... | 18/6 |

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