Cathode.
Oxide-coated filament
Voltage 5 V
Nominal current 1.6 A

Rating.
Amplification factor $\begin{cases} \text{Measured at} \\ Va \ 145V \ Vg_2 \ 70V \end{cases}$ 5.3
Impedance $Vg_1-60V$ 3,600 $\Omega$

Inter-electrode Capacities.
Grid to anode 3.8 pF
Input 18 pF
Output 9.4 pF

Dimensions.
Maximum overall length 165 mm.
Maximum bulb diameter 63 mm.
Base Standard British 5-pin
Net weight 100 g.

Maximum Ratings.
Maximum direct anode voltage 250 V
Maximum direct anode current 45 mA
Maximum potential difference between screen and control grids 150 V
Maximum control grid potential on positive swing of input voltage 10 V

It is recommended that the valve be operated in a vertical position. When operated horizontally the plane of the filament must be vertical.

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## TYPICAL OPERATING CONDITIONS.

<table>
<thead>
<tr>
<th>Anode voltage (volts)</th>
<th>130</th>
<th>130</th>
<th>130</th>
<th>130</th>
<th>130</th>
<th>180</th>
<th>180 *250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control grid voltage (volts)</td>
<td>-40</td>
<td>-60</td>
<td>-40</td>
<td>-60</td>
<td>-40</td>
<td>-50</td>
<td>-65</td>
</tr>
<tr>
<td>Positive grid voltage (volts)</td>
<td>43</td>
<td>63</td>
<td>53</td>
<td>72</td>
<td>59</td>
<td>55</td>
<td>70</td>
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<tr>
<td>Anode current (mA)</td>
<td>25</td>
<td>25</td>
<td>35</td>
<td>35</td>
<td>45</td>
<td>40</td>
<td>40</td>
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<tr>
<td>Positive grid current (mA)</td>
<td>0.2</td>
<td>0.4</td>
<td>0.4</td>
<td>0.7</td>
<td>0.9</td>
<td>0.3</td>
<td>0.4</td>
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<tr>
<td>Amplification factor</td>
<td>5.1</td>
<td>5.0</td>
<td>5.0</td>
<td>5.0</td>
<td>5.1</td>
<td>5.2</td>
<td>5.2</td>
</tr>
<tr>
<td>Anode resistance (ohms)</td>
<td>3,700</td>
<td>4,000</td>
<td>3,200</td>
<td>3,400</td>
<td>2,900</td>
<td>3,400</td>
<td>3,600</td>
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<tr>
<td>Load resistance (ohms)</td>
<td>5,000</td>
<td>3,000</td>
<td>4,000</td>
<td>2,000</td>
<td>2,800</td>
<td>5,000</td>
<td>3,500</td>
</tr>
<tr>
<td>Input peak volts</td>
<td>40</td>
<td>60</td>
<td>40</td>
<td>60</td>
<td>40</td>
<td>50</td>
<td>65</td>
</tr>
<tr>
<td>Fundamental power output (watts)</td>
<td>1.1</td>
<td>2.0</td>
<td>1.2</td>
<td>2.2</td>
<td>1.4</td>
<td>2.1</td>
<td>3.3</td>
</tr>
<tr>
<td>2nd harmonic (db)</td>
<td>29</td>
<td>21</td>
<td>33</td>
<td>21</td>
<td>30</td>
<td>30</td>
<td>26</td>
</tr>
</tbody>
</table>

* Maximum operating condition.
FILAMENT VOLTAGE = 5 VOLTS D.C.
SCREEN VOLTAGE = 70 VOLTS

-- ANODE CURRENT
----- SCREEN CURRENT

CONTROL GRID VOLTAGE (V)

ANODE CURRENT (mA)

SCREEN CURRENT

February 1946