VALVE TYPE 5A/102-A
(previously coded VLS.452).
OUTPUT PENTODE.

SPECIFICATION.

Cathode.
Indirectly heated oxide coated.
Constant current type.

Base.
American medium 6-pin—Control grid connected to top cap type B.

Dimensions.
Max. overall length \(5\frac{5}{8}\) (13 cms.)
Max. diameter \(1\frac{3}{8}\) (4·6 cms.)
Net weight 0·11 lbs. (50 gms.)

Constants.
Nominal heater voltage 7·5 volts
Heater current 0·85 amps.
*Amplification factor 110
*Impedance 43,000 ohms
*Mutual conductance 2·5 mA. per volt
Grid–anode capacity 0·5 \(\mu\)F.
Input capacity 6·8 \(\mu\)F.
Output capacity 9 \(\mu\)F.

* at \(V_p = 180\) \(V_{g_2} = 150\), \(V_{g_1} = -18\) volts.

LIMITING CONDITIONS FOR SAFE OPERATION.

Maximum direct anode voltage 180 volts
Maximum direct anode current 50 mA.
Maximum direct screen voltage 150 volts
Maximum direct screen current 10 mA.
Maximum control grid resistance (using auto-bias) 500,000 ohms

Tentative data

W.5A/102-A.1
March, 1939
**Standard Valves**

**TYPICAL OPERATING CONDITIONS.**

| Anode voltage | 180 volts |
| Control grid voltage | —18 volts |
| Screen voltage | 150 volts |
| Suppressor voltage | 0 volts |
| Load resistance | 4,000 ohms |
| Output—mW. | 50 100 250 500 750 1,000 |
| Total harmonics, db below fundamental | 34 31 28 26 25 24 |