



# Double Ended Water Cooled Triode

3Q/292E  
(4030C)

4030C

## CATHODE.

Tungsten filament		
Nominal voltage (actual voltage marked on bulb)	25	V
Nominal current	248	A
Peak emission	45	A

## RATINGS.

Amplification factor	} Measured at	{ 36	
Impedance			

## DIRECT INTER-ELECTRODE CAPACITANCIES

Grid to anode	61	pF
Grid to filament	45	pF
Anode to filament	15	pF

## COOLING

(Water Jacket is integral part of the valve)

Nominal water flow	22 gal. per minute
Pressure drop at nominal flow	9 lb. per sq. in.
Maximum water pressure in jacket	35 lb. per sq. in.

## DIMENSIONS.

Maximum overall length	1346	mm.
Net weight	16	kg.

## MAXIMUM RATINGS.

Maximum direct anode voltage	17.5	kV
Maximum direct anode current	11	A
Maximum anode dissipation	80	kW
Maximum grid dissipation	1.5	kW
Maximum frequency for above ratings	2	Mc/s
Maximum anode voltage for frequency of 22 Mc/s	15	kV

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Cooled Triode**



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**TYPICAL OPERATING CONDITIONS  
AUDIO FREQUENCY**

**Class B Power Amplifier or Modulator  
(for balanced 2 valve circuit)**

Direct anode voltage	14	kV
Grid bias	-150	V
Direct anode current per valve zero signal	1.3	A
Direct anode current per valve maximum signal	6.5	A
Anode dissipation	41	kW
Load resistance anode to anode	1900	$\Omega$
Maximum output 2 valves	100	kW

**RADIO FREQUENCY**

**Class B Telephony, Modulated Carrier applied to Grid  
(Carrier conditions per valve for use with 100% modulation)**

Direct anode voltage	17.5	15	12	10 kV
Direct anode current	4.8	4.8	4.8	4.8 A
Grid bias	-400	-300	-250	-150 V
Power output	25	22	17	12 kW
Anode dissipation	59	50	40	36 kW
Frequency	2	12	19	22 Mc/s

**Class C Power Amplifier, Anode Subject to Modulation  
(Carrier conditions per valve for use with 100% modulation)**

Direct anode voltage	12	11	10	9 kV
Direct anode current	5	5	5	5 A
Grid bias	-600	-500	-450	-400 V
Power output	40	35	30	20 kW
Anode dissipation	20	20	20	25 kW
Frequency	2	12	19	22 Mc/s

**Class C Power Amplifier or Oscillator, Unmodulated**

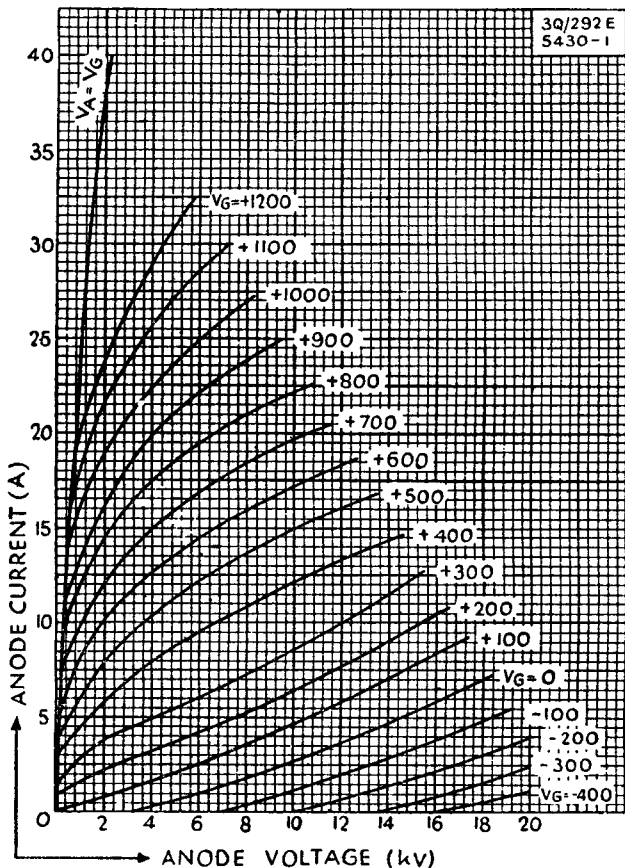
Direct anode voltage	17.5	15	12	10 kV
Direct anode current	9.6	9.6	9.6	9.6 A
Grid bias	-600	-500	-450	-400 V
	-700	-600	-500	-400 V
Power output	100	88	68	48 kW
Anode dissipation	68	56	47	48 kW
Frequency	2	12	19	22 Mc/s



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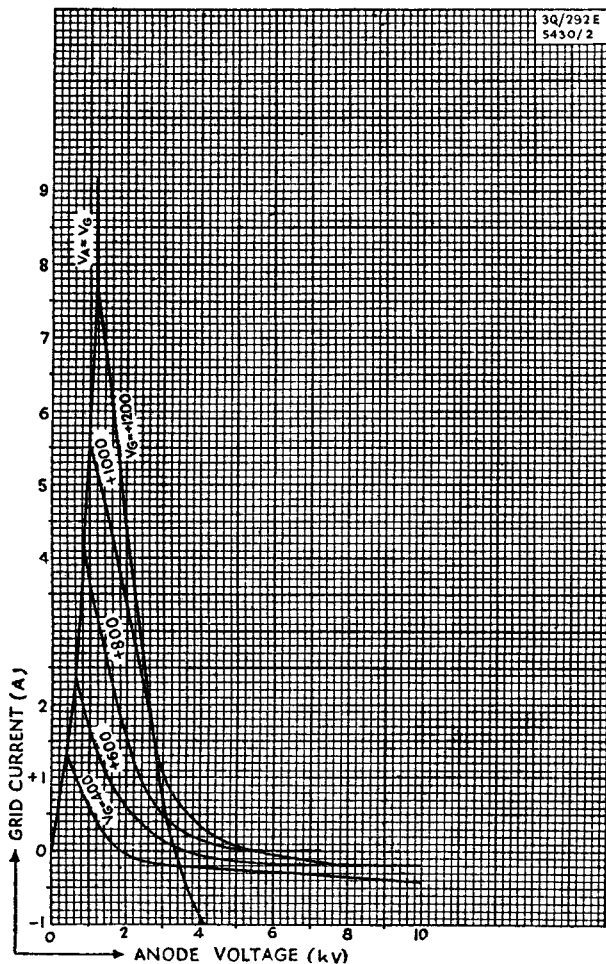


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August 1945

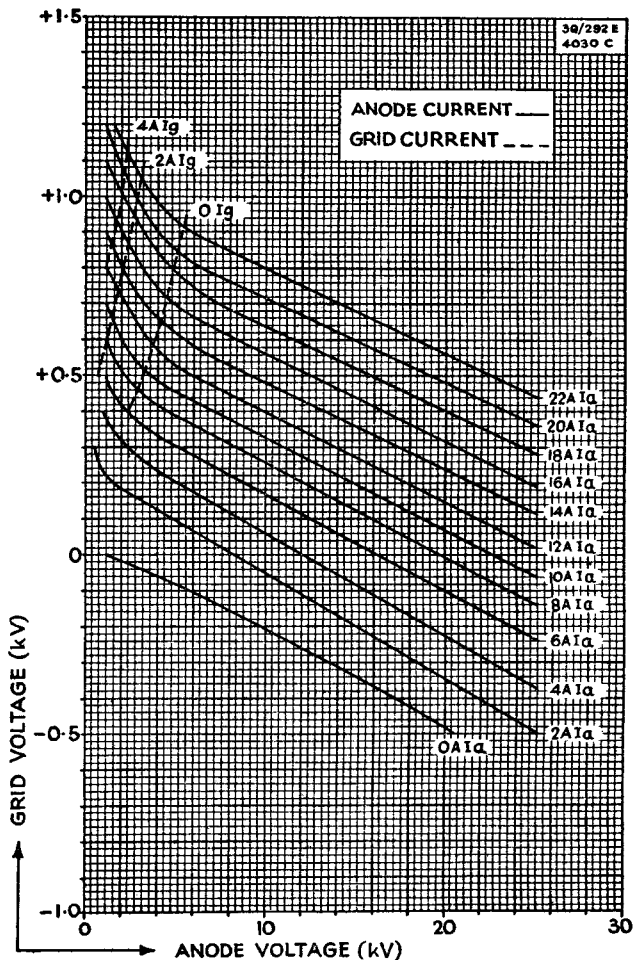
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