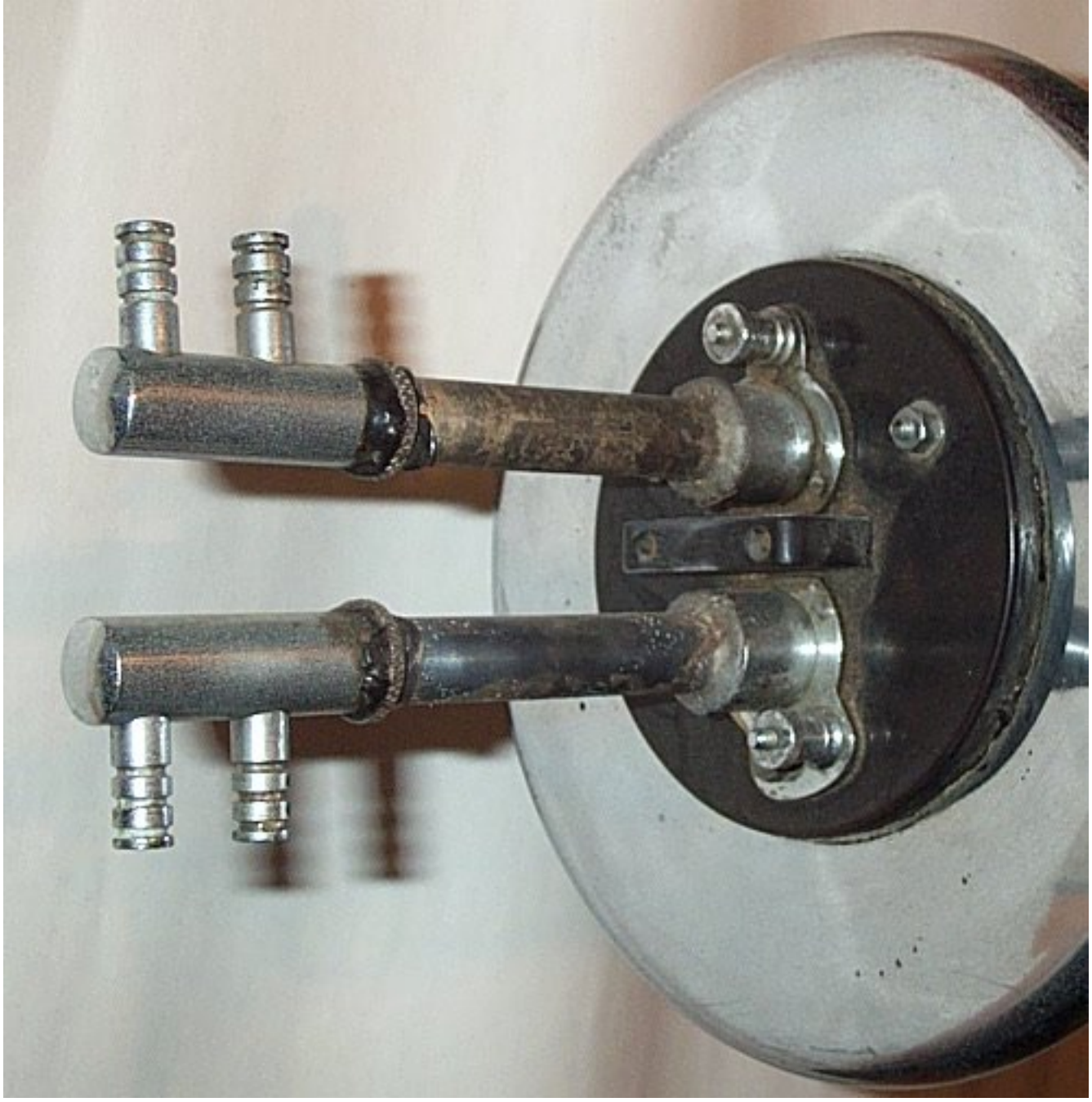
CAT10 cooled anode transmitting triode

This valve measures 1120x260mm overall (570x100mm anode, 125mm across the glass)

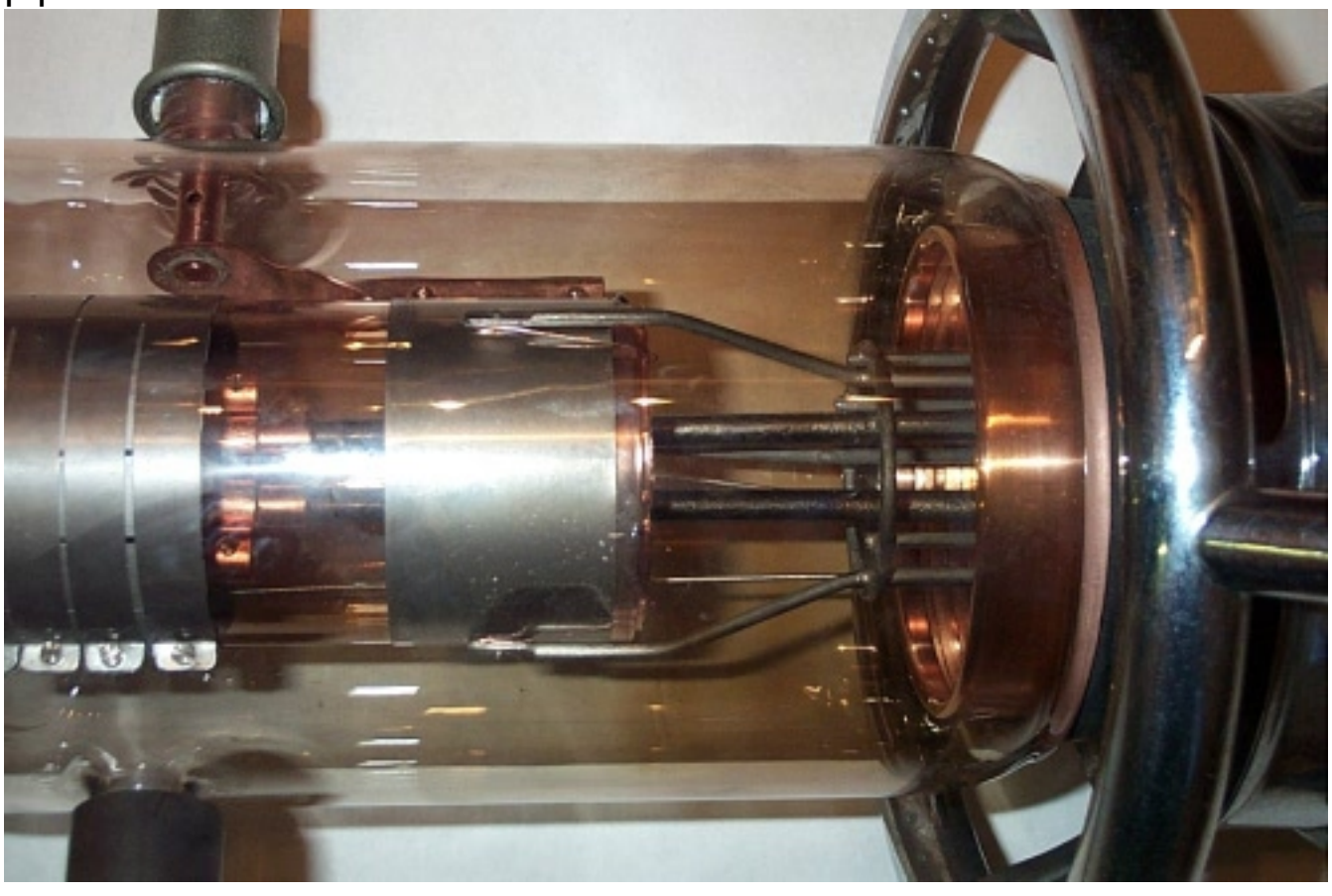
This valve is designed for liquid cooling of the anode. If water is used the flow should be not less than 14 gallons per minute. Water cooling of the filament seals is needed at not less than 200cc per minute. The anode seal is cooled by an air supply to the attached blower ring. The valve is designed primarily as an RF amplifier in long wave circuits.

Filament voltage	30V
Filament current	220A approx
Max anode voltage	15kV
Max continuous anode dissipation	50kW
Total emission	35A at 90% saturation
Amplification factor *	45
Anode impedance *	3.5k ohms
Max input on long waves (over 100m)	10 to 15kV, 8A **

*: At Va=12kV, Vg=0
**: 12kV / 8A on a telegraphic load using anode modulation



Above: detail of the filament connectors with integral water cooling pipework. Below: Internal structure



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