



Siemens, KLANGFILM and Telefunken RE604 amplifiers , 1928 to 1936.

The RE604 triode was introduced in 1928 (a year before the British PX4 and American WE 300A) and was widely used until 1936 when the successor AD1 slowly took over. The Klangfilm Bionette shown above is a brilliant example of the series of amplifiers made for cinema, theatre and similar PA by Klangfilm and Siemens. The Bionette is cleverly biased from the network in the current loop of the PSU that works in a manner like cathode bias. The parafeed choke plate loads of the first two stages is a wonderful touch. I do not quite understand why they would place a 20k Ohms resistor in series with the choke as it reduces the Q factor quite a lot, but I guess they wanted to reduce the plate Voltage. I can't help smiling when I see the odd way the signal from the second stage choke is returned to the grid of the RE604. It most certainly works, although I am not sure I would want to do it that way.