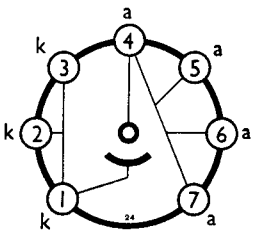
MINIATURE VOLTAGE STABILISERS SINGLE GAP

QS75/20 QS95/10 QS150/15

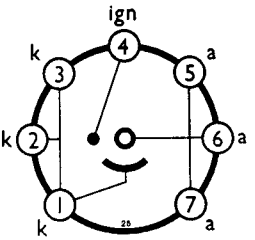
NOVEMBER, 1954

The QS75/20 is a commercial equivalent of CV284.
The QS95/10 is a commercial equivalent of CV286.
The QS150/15 is a commercial equivalent of CV287.

BASE CONNECTIONS AND TUBE DIMENSIONS



QS75/20



QS95/10 and QS150/15

View from underside of bases.

Base :	B7G	Overall length : 54	mm.
Bulb :	Tubular	Seated length : 47·6	mm.
		Max. diameter : 19	mm.

RATINGS

	QS75/20	QS95/10	QS150/15	
V_{ign} (a-k)	110	110	177	V
V_{stab}	*75 ± 5	†95 ± 5	*150 ± 5	V
V_{ign} (ign-k)	—	150	240	V
I_{tube} (max)	20	10	15	mA
I_{tube} (min)	2	2	2	mA
R_{ign}	—	0·25	0·25	MΩ
Regulation (I_{tube} min.-max.)	6	5	5	V
Stability (100 hr. period)	±2	± 3	± 1	%
Stability (1000 hr. period)	±2	± 7	± 1·5	%

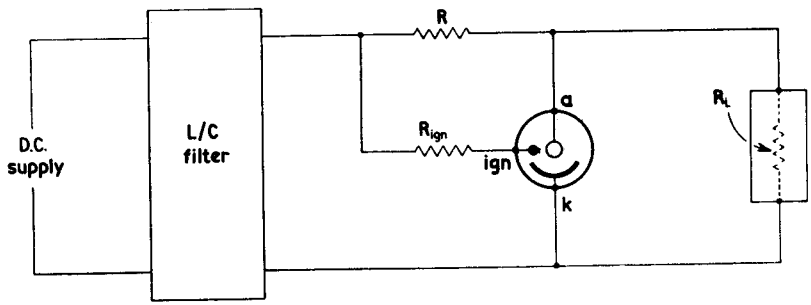
* At I_{tube} = 10 mA. † At I_{tube} = 5 mA.

OPERATION

The stabilisers require an ignition voltage greater than the stabilised voltage, and the supply should be not less than one and a half times the stabilised voltage. The ignition voltage must be applied to the tube through a series resistor to absorb the excess voltage after ignition and prevent a heavy discharge current through the tube. When calculating the value of series resistor, an ignition current of approximately 4 mA should be allowed in addition to the load current.

Types QS95/10 and QS150/15 are fitted with ignition electrodes to facilitate ignition when a heavy load is permanently shunted across the tube. The ignition electrode voltage is applied through a series resistor (R_{ign}) from a higher voltage source and suitable values are given in the above ratings. This voltage may be taken from a separate supply if desired.

QS75/20
QS95/10
QS150/15



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