VOLTAGE STABILISER
SINGLE GAP

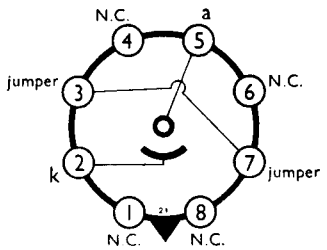
QS150/40
QS75/40

NOVEMBER, 1954

The QS150/40 is a commercial equivalent of CV216, and a direct equivalent of the American type VR150/30 (OD3).

The QS75/40 is a commercial equivalent of CV1895, and a direct equivalent of the American type VR75/30 (OA3).

BASE CONNECTIONS AND TUBE DIMENSIONS



View from underside of base.

Base : International Octal.
Bulb : Dome top pear.

Overall length :	105	mm.
Seated length :	90	mm.
Max. diameter :	39·5	mm.

RATING

	QS75/40	QS150/40	
V_{ign} (max.)	105	180	V
V_{stab} (at I_{tube} = 30 mA)	75 ± 5	$150 \pm^{10}_{5}$	V
I_{tube} (max)	40	40	mA
I_{tube} (min)	5	5	mA
Regulation (I_{tube} min.-max.)	6·5	5·5	V
Stability (100 hr. period)	± 2	± 1	%
Stability (1000 hr. period)	± 2	± 2	%

The QS75/40 which replaces the obsolete STV70/60 has a slightly higher operating voltage range (V_{stab}), *and a lower maximum tube current rating* (I_{tube}), *than the latter type. The STV70/60 is no longer available.*

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 10 mA should be allowed in addition to the load current.

CONNECTION

In order to safeguard other apparatus when the stabiliser is removed from circuit with the H.T. applied, pins 3 and 7 are strapped internally, so that they may be wired in series with the H.T. supply.

QS150/40
QS75/40

OV.2735

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