



## Type MU.1

### Mercury Vapour Rectifier

#### RATING.

Filament Volts	...	...	...	...	4.0
Filament Current	...	...	(approx.)	...	2.5
Maximum Anode Volts	...	...	(r.m.s.)	...	1,500
Maximum Rectified Current for simultaneous switching of Anode and Filament (mA.)	...	...	...	...	60
Peak Emission Current (mA.)	...	...	...	...	500

#### DIMENSIONS.

Maximum overall length	...	...	...	114 m.m.
Maximum diameter	...	...	...	55 m.m.

PRICE **25/-**

#### GENERAL.

The Ediswan MU.1 is a directly heated half-wave rectifier, of the "gas-filled" type. The presence of mercury vapour in the bulb enables high currents to be handled, while the voltage drop in the rectifier is low and of a constant value. The valve is fitted with a standard four-pin base. The maximum rectified current for delayed switching of the rectifier is 250 milliamps.



THE EDISON SWAN ELECTRIC CO. LTD.

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Mazda Valves are manufactured in Great Britain for  
The British Thomson-Houston Co., Ltd.,  
London and Rugby

**EDISWAN**

R763-15

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### OPERATION.

It is usual to operate the rectifiers in pairs in a full-wave rectification circuit. Owing to the low internal voltage drop it is advisable to limit the anode current by the insertion of a series resistance in the leads from the transformer to the anodes.

If the valve is to be operated at full load current, it is essential to allow the heater to attain maximum temperature before the anode voltage is applied. For this purpose the Ediswan Thermal Delay Switch has been designed (Leaflet No. R.763/9). If, however, the load current does not exceed 60 mA., the anode and filament voltage may be switched on simultaneously.

The voltage drop in the rectifier is of the order of 20 volts at all loads, enabling remarkably good regulation to be obtained. To avoid the danger of reverse arc-back, care should be taken that the maximum reverse voltage applied to the anode does not exceed the value stated.

The use of high voltages with this valve may necessitate the use of a special high-insulation valve-holder with steatite insulation, or a similar material.

