

RELAY  
(1/2 Size)



# MOORHEAD VACUUM VALVES

FOR

## WIRELESS TELEGRAPHY and TELEPHONY

### RELAY, Price \$5.50

This valve needs no introduction, as it has been used by amateurs and experimenters for over five years. It is a familiar aluminum plate, copper grid, and double filament device operating on 20 to 45 volts plate battery and 4 volts filament battery. It can be used in combination as an amplifier, detector, and oscillator for receiving damped and undamped signals. It carries a guaranteed life of 700 hours. This bulb has been greatly improved during the war and is especially designed for the beginner and experimenter, requiring little adjustment or attention. The recent long-distance records made by the Federal Telegraph Company from Sydney, Australia, to South San Francisco in daylight, a distance of 6000 miles, were accomplished by the use of this valve.

### TYPE R, Price \$5.00

This valve is built entirely of pure nickel and is the same construction as the valve designed by the British Government for the reception of damped and undamped signals. It requires a plate voltage between 15 and 40 volts operating on a 4 to 6 volt filament battery. It contains a single filament of pure crimped tungsten and is guaranteed for 800 hours life. It has been especially designed for the more advanced experimenter and requires careful adjustment on A and B battery. However, phenomenal results can be obtained with its use. Thousands of these have been built for the British Government and used during the war in all branches of radio communication.

### TYPE RH, Price \$5.50

This valve is similar to Type R, except that it is evacuated so that any voltage from 50 to 400 on the plate may be used, thus making it especially desirable as an oscillator and amplifier. It can be used as a generator for undamped oscillations for radio telephony and telegraphy. Using the telephone circuit which we will furnish with each valve, a radiation of five-tenths to one ampere may be obtained, and official government tests both by the British and American Governments have proven this amount of power to be sufficient to communicate 120 miles in day time. There are no critical adjustments on this valve, and it may be operated by anyone without trouble. This type has been used in all aeroplane radio sets, and is extremely rigid and long lived.

### TYPE B, Price \$6.50

Type B is primarily designed for transmitting and is made in accordance with the latest discoveries relating to vacuum valve transmitting sets, although very good results are obtained by using it as a receiver. Using the circuits furnished with this bulb, sufficient radiation is obtained when 500 volts are applied to the plate to cover a distance of 200 miles, daylight, either telephone or telegraph. This bulb is exactly the same as those being furnished the United States Navy at the present time.

**YOUR MONEY ENTITLES YOU TO A GENUINE MOORHEAD VACUUM VALVE.**

**BE SURE THE VALVE YOU BUY BEARS THE WORDING:**

**PATENTED**

This Moorhead Valve is licensed under the Fleming Patent—  
Number 803684—for amateur and experimental purposes only.

**TERMS:** Cash with order, or C. O. D.

The prices of all our goods are F. O. B. San Francisco.

**FOREIGN ORDERS:** A draft or money order covering the cost of the goods purchased must be enclosed with all orders from outside the United States, or from the U. S. Territories, and all expenses such as freight, insurance, etc., connected with the shipping of the same must be remitted to us on receipt of the merchandise, which is forwarded at purchaser's risk.

All previous prices, terms and discounts are hereby cancelled.

No exclusive territories allotted to agents or dealers.

**PACIFIC LABORATORIES SALES DEPARTMENT**

**510 PACIFIC BUILDING**

**SAN FRANCISCO, CAL.**

MOORHEAD VACUUM VALVES ARE MANUFACTURED BY THE MOORHEAD VACUUM VALVE CO., SAN FRANCISCO, CAL. THE POSTAGE WILL BE PAID BY THE ADDRESSEE. THIS VALVE IS SHIPPED BY REGISTERED MAIL TO YOUR HOME TOWN.

TYPE R  
(Full Size)

