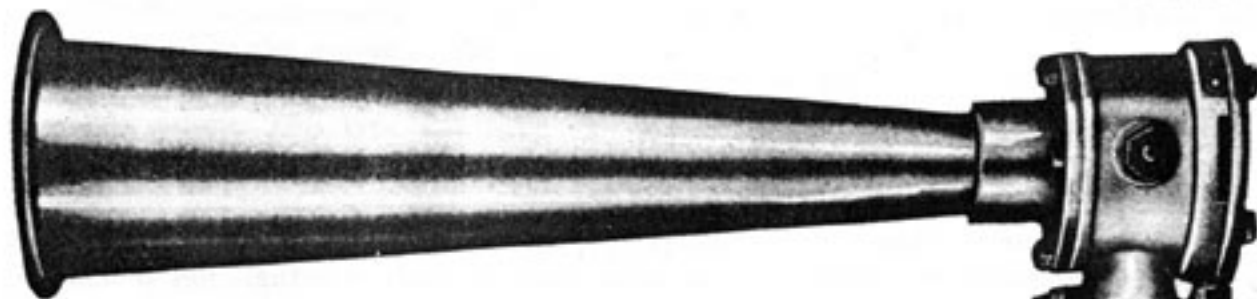


# PUBLIC ALARM EQUIPMENT



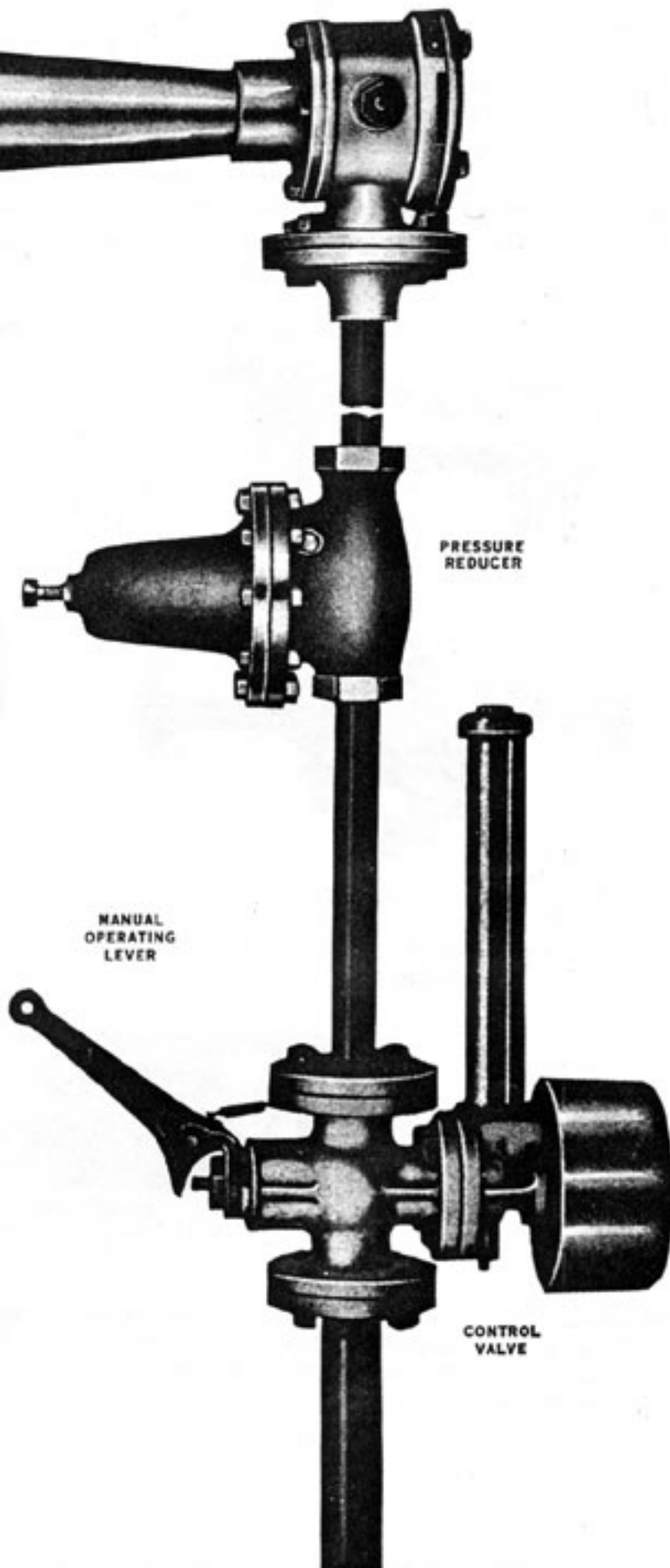
## THE DIAPHONE

The GAMEWELL Diaphone Horn, operated by compressed air, is characterized by great carrying power, distinctive tone, and the ability to sound coded signals in short and distinct blasts. It is the most powerful and efficient public alarm yet developed. The operating air pressure required at the horn is 35 pounds per square inch.

Diaphone public alarm outfits are self-contained units providing by means of automatically controlled motor-driven compressors an adequate reserve supply of compressed air for alarm purposes. The air is stored in suitable tanks and the power for operating the motor-driven compressors is taken from the local electric light or commercial power supply circuit.

Reserve capacity is of vital importance. Any means employed for announcing the existence and location of fire is inadequate and undependable if not continuously capable of performing its functions irrespective of power failure or other cause.

The GAMEWELL Diaphone control valve is of the electrically controlled pneumatically operated type and controls the operation of the Diaphone Horn in conformity with the code signal impulses transmitted over the fire alarm circuit. The operating power is supplied entirely by air pressure, thus eliminating all necessity for dependence upon local battery, weights, or solenoid magnet control from a local power circuit, the failure of which would render the public alarm useless. The valve is entirely automatic, is connected directly in the fire alarm circuit, and, irrespective of the time the fire alarm circuit in which it is connected remains open, it permits blasts of uniform duration only—any break in the circuit is instantly announced.



company • newton upper falls 64, massachusetts

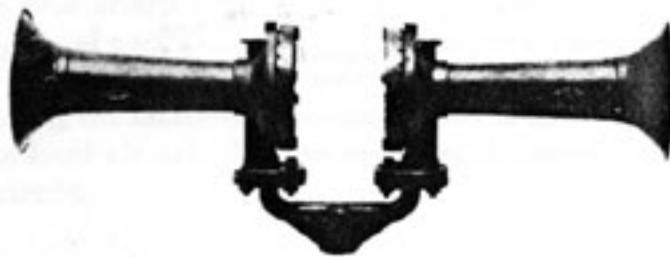
# PUBLIC ALARM EQUIPMENT

## AIR HORNS — DISC TYPE

GAMEWELL compressed air alarm outfits are also supplied at the option of the purchaser with horns of the disc type as shown in the accompanying illustrations. This type has been extensively used for emergency signaling purposes. The tone is radically different from that of the Diaphone, is distinctive, penetrating, of great carrying capacity, and is not similar to that of sirens, whistles, or bells. Special tone pitch, either monotone or chime, can be furnished.

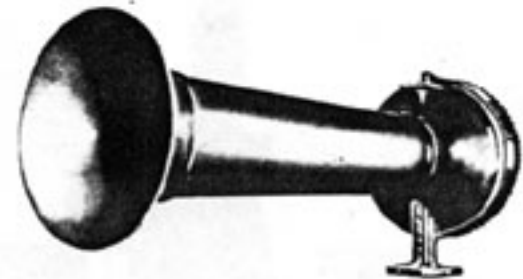
The operation of the disc type of horn is based on definite physical principles for the creation of sound waves. The column of air in the horn is vibrated at a definite frequency. The result is a powerful and pleasing tone emitted by the projector of the signal — the horn. For proper functional performance the required air pressures range from 80 to 100 pounds per square inch.

The vibrating membrane is supported by a ring at its edge and vibrates slightly at the edge. The discs are vital elements and are manufactured from selected non-corrosive materials, rolled, tempered, and carefully adjusted by hand to insure clear and powerful signals. Each horn is designed to produce one frequency. Where two or more horns are assembled in a group, each produces a definite frequency and all are blended into a powerful chime.



TYPE F—TWO-WAY ASSEMBLY

Recommended for a long narrow town with alarm centrally located.

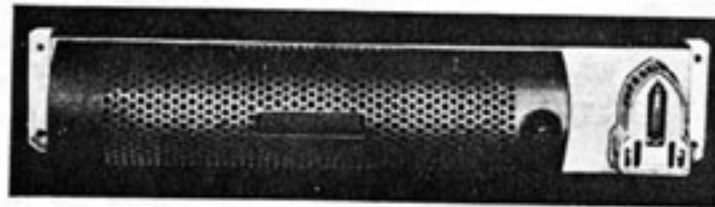


TYPE F—ONE-WAY



TYPE F—FOUR-WAY ASSEMBLY

The four units act in unison and distribute the sound equally in all directions.



AUTOMATIC HEATER  
Cat. No. 8352 Code: YIBAC

For the protection of the Diaphone control valves against freezing the automatic heating element illustrated below is recommended. The heater consists of a heating element, control thermostat, thermometer, pilot light and an approximately 2" x 4" outlet box, mounted on a rigid pressed metal frame. The heating element is protected by a perforated

pressed metal guard and enclosed in the valve housing. The standard model is rated at 500 watts, 115 volts, A.C. It can also be supplied in other special models rated at 500 or 750 watts, 110 volts, D.C., 220 volts, A.C., or 220 volts D.C. Net weight, 8 pounds.



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