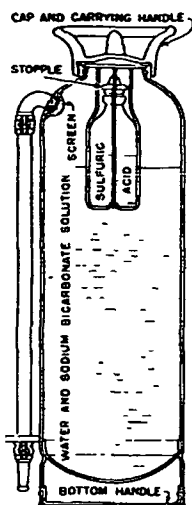


43—Fire Protection

For CLASS A FIRES—Wood, paper, textiles, and the like



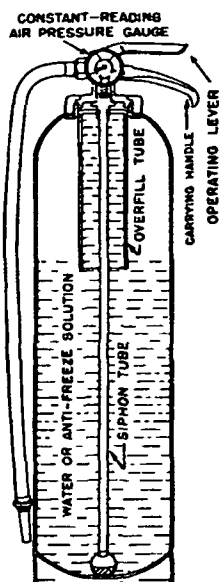
Operation. Invert extinguisher, hold by bottom handle. The lead stopple will drop from the bottle and allow the two chemicals to mix, CO_2 gas will be generated and will supply the pressure necessary to discharge contents through the hose and nozzle. Direct the stream at the base of the fire, then follow up after the flames while working from side-to-side or around the fire if possible.

Maintenance. Periodic external inspection and yearly discharge and recharge. During recharge, check hose and nozzle for obstructions and defects, bent discharge elbow, corrosion, or other mechanical injury, and thoroughly wash out metal shell, hose, and nozzle. Mix sodium bicarbonate and water solution in separate, clean container and strain into extinguisher. The loose-fitting lead stopple must be on acid bottle to reduce hygroscopic action.

Caution. Store in heated cabinet because antifreeze solution cannot be used to protect from temperatures below 40 F, do not subject to temperatures above 120 F.

FIG 43-16 —Soda-acid fire extinguisher (No longer manufactured, but replacement parts are available)

For CLASS A FIRES—Wood, paper, textiles, and the like



Operation. Can be operated intermittently by removing locking ring and squeezing combination operating lever-handle. Extinguisher is pressurized with air or inert gas through a hose line equipped with an automobile-type air chuck. Charging pressures vary from 90 to 150 psi. Direct the stream at the base of the fire, then follow up after the flames while working from side-to-side or around the fire if possible.

Maintenance. Check pressure, hose, and nozzle frequently. When charging extinguisher, fill only to water level mark so there will be sufficient room for pressurized air. Some models have an overfill tube that ensures filling to the proper level. When pressurizing, the gauge should indicate just above the full mark, then, when the pressure equalizes, it will not read less than full. After charging, let it stand for 24 hr to check for leaks.

Caution. Protect from freezing. Be sure shell is the corrosive-resistant type before adding antifreeze charge. Do not refill with loaded-stream charge unless extinguisher is designated as loaded-stream type.

FIG 43-17 —Stored pressure water fire extinguisher. May be labeled "loaded stream" if charged with a special alkali-metal salt solution instead of water.