

## Descriptions

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The BRIGADE cartridge operated dry chemical fire extinguishers are “pressure transfer” hardware designs that utilize separate agent and expellant charge containers. The expellant cartridge is sized and matched to the specific extinguisher model and feature a carbon dioxide pressure charge. These extinguishers are specifically engineered to effectively discharge the dry chemical extinguishing agent charge.

### **The BRIGADE cartridge operated fire extinguishers consist of the following basic parts:**

- 1. Agent cylinder** - contains the rated dry chemical extinguishing agent charge.
- 2. Expellant cartridge** – contains the rated expellant pressure charge and safety relief/puncture seal.
- 3. Cartridge receiver** – serves as the mechanism to puncture the seal and release the expellant gas from the cartridge.
- 4. Gas tube assembly** – delivers the expellant charge pressure into the agent cylinder and serves to fluidize/disperse the pressure throughout the dry chemical agent charge. The rubber sleeves also serve as an internal check valve for the retention of operating pressure.
- 5. Cartridge guard** – covers and protects the expellant cartridge.
- 6. Ring pin and tamper seals** - provide a means of visual assurance that the extinguisher has not been activated, discharged or subjected to tampering.
- 7. Discharge hose assembly** -provides a flexible means of agent delivery from the agent cylinder to the discharge nozzle assembly.
- 8. Discharge nozzle assembly** – provides operators with on and off control of the agent discharge.
- 9. Nozzle tip** – provides the discharge stream shaping characteristics necessary for optimum fire fighting performance.
- 10. Agent cylinder fill cap** – seals out moisture from agent container, equipped with a re-settable red visual indicator stem to show when the unit has been pressurized.
- 11. Operating nameplate** – provides operators with the necessary operating instructions.
- 12. Maintenance nameplate** – contains extinguisher data, properties, service and maintenance information.
- 13. Nozzle holster** – stows and retains the discharge nozzle assembly.
- 14. Carrying Handle** – provides operator with a positive means to lift, hold and transport the fire extinguisher.

## Operation Instructions

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**NOTE: Badger recommends that extinguisher operators receive proper hands-on equipment training and fire fighting experience as suggested by OSHA under CFR-29.**

1. Remove the fire extinguisher from its hanger or bracket.
2. Using the extinguisher carrying handle, transport the unit to a safe position upwind of the fire.
3. Pull and remove the ring pin, breaking the visual tamper seal.
4. Remove the nozzle from the nozzle holster and the hose from behind the cartridge receiver push lever.
5. Push the cartridge receiver push lever to puncture the cartridge seal to transfer pressure.

**WARNING:**

**Normal safety precautions suggest operators avoid positioning any part of their body over the top of the extinguisher when transferring pressure.**

6. Approach fire from upwind, to within approximately 15 feet of the front edge of the fire.

**WARNING:**

**Failure to start back at a sufficient distance from the front edge of the fire or to use an adequate sweeping tempo of the agent discharge stream could cause splashing and/or scattering of the burning material.**

7. Starting back from this distance, squeeze the discharge nozzle operating lever fully to initiate the discharge of dry chemical extinguishing agent.
8. Apply the dry chemical agent discharge with a side to side sweeping motion, being careful not to splash or scatter the fuel. Operators may advance closer as control of the fire is gained however, they should avoid stepping into the fuel or fire area.
9. After fire extinguishment, stand by and be prepared to address any re-flash.
10. Once the fire is out and has cooled, the fuel should be properly removed and disposed of in accordance with local handling requirements.

## After Use Instructions

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**Note: Fire extinguishers should always be recharged immediately after any use.**

1. Invert extinguisher, then while securing and pointing the nozzle in a safe direction, squeeze the operating lever to clear hose and vent all remaining pressure from the extinguisher.
2. Notify proper person that extinguisher was used, so that the extinguisher can be immediately recharged or a replacement obtained.