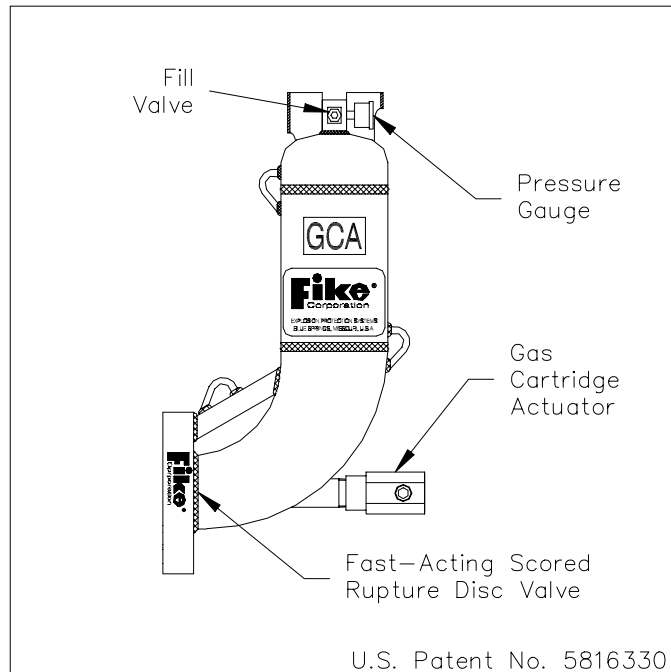


# Suppressant Containers

Explosion Protection Component Sheet # C3620



*Suppressant Container*

## DESCRIPTION

The objective of Fike Suppressant containers is to provide optimum performance in delivering the suppressant agent and suppressing an explosion.

These patented high-rate discharge suppressant containers are specifically designed to reduce the time required to inject the agent and suppress the flame front. One method employed to accomplish this is the incorporation of a 90 degree elbow as part of the container volume. Fike suppressant containers also use special fast-acting rupture disc valves to provide rapid container opening and release of the agent.

In addition, Fike offers 2 and 9 liter containers used specifically for chemical explosion isolation. This technique is often used in conjunction with explosion suppression and explosion venting.

The high-rate discharge containers comply with the ASME Boiler and Pressure Vessel Code.

## OPERATION

Fike suppressant containers use a gas cartridge actuator to initiate the opening of the rupture disc valve. This initiator is easily removed for maintenance without the need for depressurization or removal from protected equipment. Upon opening, the suppression agent is discharged through a patented "Zero Restriction" nozzle. The nozzle maximizes the dispersion of the agent to rapidly engulf the flame front and effectively suppress the deflagration.

After system activation, Fike Suppressant Containers can be easily refilled and refurbished on-site.

## SUPPRESSANT AGENTS

Fike offers a variety of environmentally safe suppressant agents to meet your specific application. These include Sodium Bicarbonate (including an optional food grade agent), Mono Ammonium Phosphate, and a water-based agent.

## TECHNICAL SPECIFICATIONS

### Ambient temperature range

-30° F to 140° F

### Pressure gauge

Standard

### Materials of construction

Body & flange: high grade carbon steel

Initiator housing: SST

Pressure gauge: SST

### Paint specification

All exposed surfaces: White baked urethane enamel

## DISPERSION NOZZLES

Fike dispersion nozzles are designed to provide the widest possible dispersion of the suppressant agent. For specific information on these dispersion nozzles, see the Fike Nozzle Component Sheet (C3630).



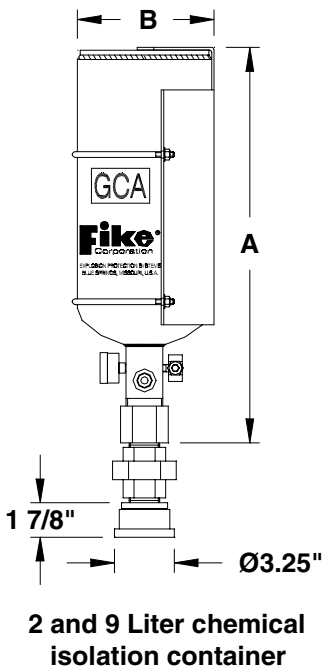
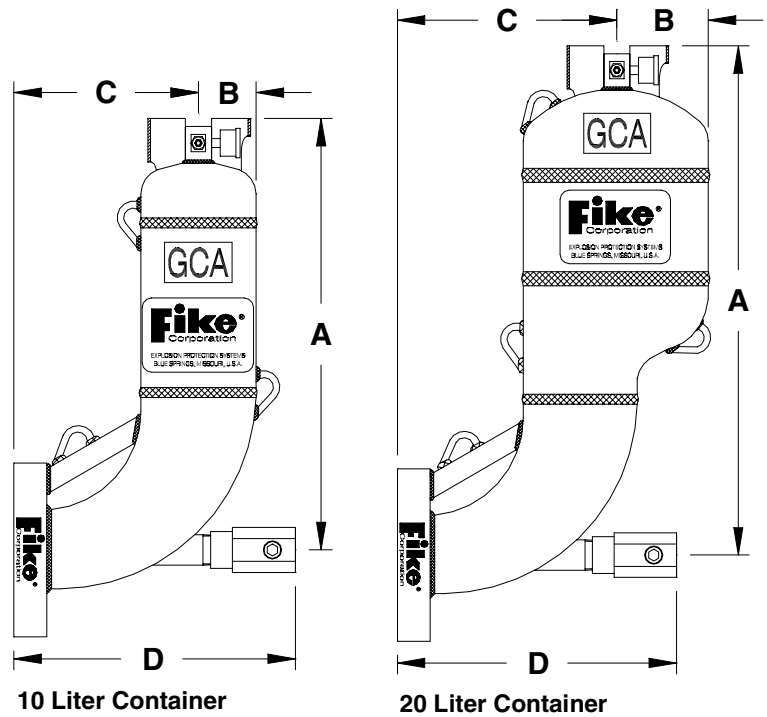
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August, 2000

Revised Issue

**NOTE**

Fike offers six different suppressant containers and two chemical isolation containers to meet your specific application. Two suppressant containers are illustrated to show the two basic configurations. The 2.5, 5, and 50 liter containers are similar to the 10 liter container illustrated. The 30 liter container is similar to the 20 liter container illustrated. See the table below for overall dimensions of specific containers. These illustrations are not to scale.



SIZE	DIMENSIONS				MOUNTING FLANGE	EMPTY WEIGHT (POUNDS)
	A	B	C	D		
2.5 Liter	12	3	7 5/8	16 1/4	4" ANSI 300	67
5	15	3 5/16	10 5/8	16 1/4	4" ANSI 300	95
10	24 7/8	3 5/16	10 5/8	16 1/4	4" ANSI 300	118
20	30	5 3/8	12 3/4	16 1/4	4" ANSI 300	206
30	35 1/4	5 3/8	12 3/4	16 1/4	4" ANSI 300	220
50	41 3/8	5 3/8	19	21 1/4	6" ANSI 300	251
2	14 1/2	6				15
9	22	7 3/4				30

All specifications are subject to change without notice.