

GENERAL INFORMATION

Chemetron High Pressure Carbon Dioxide fire extinguishing systems provide protection for a variety of industrial applications. High Pressure CO₂ systems consist of four basic components and their associated accessories.

- Storage / Distribution Components
- Completer Kits
- Control Panels
- Detection and Alarm Devices

FEATURES

- 1 The storage/distribution components consist of the cylinders and valves, support and racking components, and discharge nozzles.
- 2 The Primary Completer Kit includes a pilot discharge head, pilot solenoid, pilot connection kit, discharge hose, warning sign, and manual operating instruction plate. The Slave Completer Kit includes a slave discharge head and discharge hose.
- 3 The control panel monitors the detection and actuation devices and includes timers to delay the discharge, allowing for safe departure from the protected space.
- 4 The detection and alarm devices are the external components that provide audible or visual signals to alert occupants of pending problems or the possible need to evacuate the protected space prior to discharge.

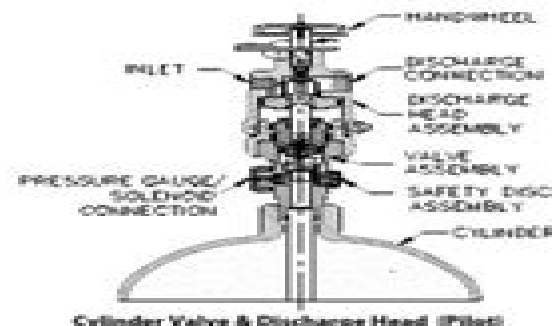
Carbon dioxide systems can be designed for total flooding and local application protection. The guidelines contained in the National Fire Protection Association Standard on Carbon Dioxide (NFPA 12) and OSHA standards, as well as state and local requirements should be followed for either design. A total flooding system can be defined as injecting CO₂ into a room, area or compartment that has the structural integrity to retain the agent once it has been discharged. The minimum concentration requirement for total flooding systems is 34% by volume. This minimum concentration is suitable for a wide range of ordinary combustibles and flammable liquids. Higher concentrations may be required for specific flammable liquids and/or hazards that may become deep seated. The local application method requires that CO₂ be applied to the surface of the protected hazard for a specified time period that insures the fire condition has been controlled.

HIGH PRESSURE CO₂ EQUIPMENT DESCRIPTION

CYLINDER AND VALVE ASSEMBLY

The cylinders that are used to store CO₂ are spun steel containers manufactured to DOT Specification 3AA-1800 or 3AAA-1800 or higher. They are available in five different capacities - 25 lb. (12 kg), 35 lb. (16 kg), 50 lb. (23 kg), 75 lb. (34 kg) and 100 lb. (45 kg) sizes. Each cylinder is stamped with a serial number and hydrostatic test date. They also come equipped with a steel cap for the physical protection of the cylinder valve during shipment and handling.

The standard cylinder assembly is composed of a cylinder, rigid siphon tube, and valve. It is designed for vertical mounting only.



Cyl Size	Stock Number (Standard Assembly)	Filled Cylinder Weight (1) Lb. (Kg)	Cylinder Assy Dimensions			
			Height (2)		Diameter	
			in	cm	in	cm
25#	10481493	87 (39)	29-5/8	75.25	8-1/2	21.59
35#	10481494	121 (55)	39-1/2	100.33	8-1/2	21.59
50#	10480202	154 (70)	55-1/4	140.34	8-5/8	21.91
75#	10480203	216 (98)	60-1/4	153.04	9-5/16	23.65
100#	10480204	291 (132)	62-1/4	158.12	10-5/8	26.99

(1) Cylinder weights are approximate.

(2) Height is top of cylinder valve to bottom of cylinder, ± 1/2".

Option: Winterized cylinder assemblies (90% CO₂ fill pressurized with Nitrogen to 1050 PSI at 70°F) are available in all cylinder sizes.

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Operation of Fire Protection Systems Arthur E. Cote, 2003 Fire Science FESHE Best's Safety Directory ,1993

Best's Safety Maintenance Directory ,1964 **Approval Guide** ,1989 **Testing and Evaluating the**

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manage community risks Critical fire suppression tactics including those used for concealed space fires attic fires buildings with solar photovoltaic systems and chimney fires Updated research and statistics to ensure evidence based recommendations and protocols The Canadian Fourth Edition Features Alerts to additional content available in Navigate 2 Thought provoking case studies Detailed chapter summaries key terms and **Welding Design & Fabrication** ,1974
Fire Journal ,1967 Power Plant Engineering ,1980 **Official Gazette of the United States Patent Office** United States. Patent Office,1963 The Canadian Patent Office Record ,1964

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