

## GENERAL INFORMATION

Chemetron High Pressure Carbon Dioxide fire extinguishing systems provide protection for a variety of industrial applications. High Pressure CO<sub>2</sub> 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.

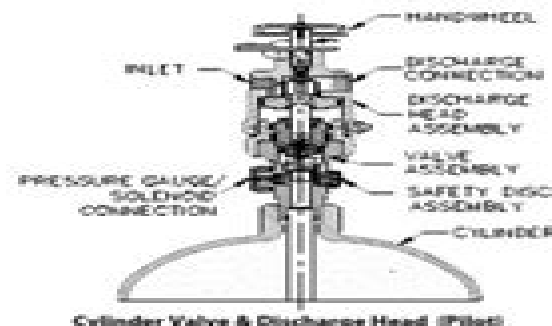
Carbon dioxide systems can be designed for total flooding and local application protection. The guidelines contained in the National Fire Protection Association Standard on Carbon Dioxide (NFPA 12) and OSHA standards, as well as state and local requirements should be followed for either design. A total flooding system can be defined as injecting CO<sub>2</sub> 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 CO<sub>2</sub> be applied to the surface of the protected hazard for a specified time period that insures the fire condition has been controlled.

## HIGH PRESSURE CO<sub>2</sub> EQUIPMENT DESCRIPTION

### CYLINDER AND VALVE ASSEMBLY

The cylinders that are used to store CO<sub>2</sub> 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 Assemblies) | 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% CO<sub>2</sub> fill pressurized with Nitrogen to 1050 PSI at 70°F) are available in all cylinder sizes.

# Chemetron High Pressure Manual

**Liyong Dong**



## **Chemetron High Pressure Manual:**

Technical Manual United States Department of the Army,1966      **U.S. Navy Diving Manual: Mixed-gas diving** United States. Naval Ship Systems Command. Supervisor of Diving,1973      **Code Blue- The Sudden Cardiac Arrest Manual** Dr K C Sekhar,2024-02-16 An estimated 5 6 lakh people die every year due to sudden cardiac death SCD i e an unexpected death that occurs within an hour of collapse This amounts to 10% of total mortality and 1 5 th of all cardiovascular deaths In sudden cardiac arrest a sudden dangerous rhythm disturbance of the heart occurs stopping blood flow to vital organs Permanent brain damage occurs if the circulation is not restored within 3 to 4 minutes and hopes of survival become remote by the time they are shifted to hospitals On the spot bystander action in providing a life saving cardiopulmonary resuscitation cardiac massage or CPR and early shock to the chest can improve survival by 60 to 80% This manual comprehensively covers all aspects of sudden cardiac arrest across various age groups and situations Containing 40 Chapters 12 Annexures and 175 References it delves deeply into the historical evolution and latest medical management protocols of this life threatening emergency The manual will serve as a valuable reference book for all doctors nurses and para medical staff posted in critical care units casualty and the periphery      **High-pressure Gas Systems** United States. Army,1966      *Report of the Halons Technical Options Committee* United Nations Environment Programme. Halons-Technical Options Committee,1999      *Best's Safety Directory* ,1993      *Industrial Fire Brigades Training Manual* Horatio Bond,National Fire Protection Association,Warren Young Kimball,1968      **Power** ,1996      **UNEP 1998 Assessment Report of the Halons Technical Options Committee** United Nations Environment Programme. Halons-Technical Options Committee,1999      **Approved Equipment for Industrial Fire Protection** ,1961

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Mercedes-Benz four-Cylinder engine, M264;; Orientation - Horizontal (normal); Artist - Daimler AG - Global Communications  
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