

HPCO₂ Component Description

123 lb. Capacity Carbon Dioxide Cylinder and Valve Assembly

Effective: January 2026
K-81-1005 Rev AA

FEATURES

- **US DOT 3AA-2175 Specification**
- **TC 3AAM-166 Specification**
- **Type I Valve, 5/8"**
- **Straight Siphon Tube**
- **Underwriters' Laboratories Listed - File Number EX923**
- **United States Coast Guard Approved**
- **FM Approved, Standard 5420**

DESCRIPTION

The Kidde Fire Systems High-Pressure Carbon Dioxide (CO₂) Fire Suppression System uses seamless steel cylinders to store carbon dioxide agent. Prior to removing the shipping cap, each cylinder shall be properly secured using cylinder straps or Framing/Oak Rack Kits as required.

The discharge valve cannot dispense the cylinder contents without a properly attached discharge head. This feature provides an enhanced safeguard during transport. A discharge flex hose connects the discharge head to the system manifold. Alternatively, a swivel adapter may be used in place of a discharge flex hose to connect to the system manifold. One or more control heads will be required to actuate a manifold of cylinders.

After discharge, charging accessories are required to safely vent any residual pressure to service the discharge valve and then re-fill the cylinder.

SPECIFICATIONS

Service Pressure, Max: 2300-psi (158-bar)
Temperature, Min: 0°F (-17°C)
Temperature, Max: 130°F (55°C)

ORDERING INFORMATION

| Description | Application | Approvals | Part Number |
|------------------------------------|-----------------------|---|---------------|
| Cylinder & Valve Assembly, 123 lb. | Industrial and Marine | UL/ULC FM Approvals USCG Various Class Societies | 81-100082-000 |

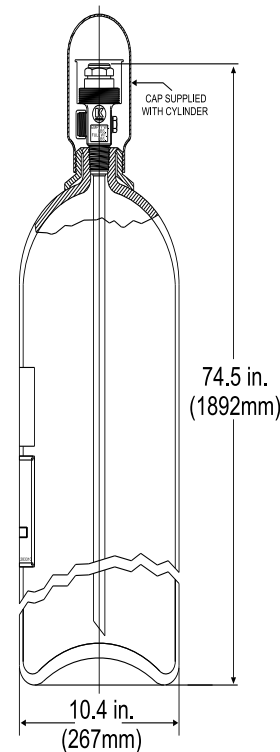


Figure 1. Cylinder

REFERENCED COMPONENTS

| Description | Reference Data Sheet | Description | Reference Data Sheet |
|-----------------------------|--------------------------|---------------------------------|----------------------|
| Discharge Head, Plain Nut | K-81-1060 | Rack Kit, Oak | See manual 220610 |
| Discharge Head, Grooved Nut | K-81-1070 | Control Head, Electric | K-81-8010* |
| Hose, 3/4" Outlet Discharge | K-81-1090 | Control Head, Cable Operated | K-81-6020* |
| Adapter, Swivel | K-81-1105 | Valve, 5/8" Type I (spare only) | K-81-1050 |
| Strap, Single Cylinder | K-81-1230 | Fixture, Blow-Off | K-81-9110 |
| Strap, Dual Cylinder | K-81-1240 | Adapter, Charging | |
| Framing Kit, Steel | See manual 81-CO2MAN-001 | | |

* Typical listed, see referenced manuals for all applicable control heads.

This literature is provided for informational purposes only. Kidde-Fenwal, LLC believes this data to be accurate, but it is published and presented without any guarantee or warranty whatsoever. Kidde-Fenwal, LLC assumes no responsibility for the product's suitability for a particular application. The product must be properly applied to work correctly. If you need more information on this product, or if you have a particular problem or question, contact KIDDE-FENWAL, LLC, Ashland, MA 01721.

Kidde-Fenwal, LLC
400 Main Street
Ashland, MA 01721, USA

KFI U.K. Limited
Station Road,
Bentham, Lancaster, LA2 7NA

Kidde Technologies
Survey No. 28/2, 44/2 and 45
Rasyani, Dandapta Road
Raigad Maharashtra-410207, India