HPCO₂ Component Description 45 kg (100 lb.) CO₂ Cylinder & Valve Assembly P/N 81-100067-00X



Effective: January 2019 K-81-9151 Rev AC

FEATURES

- 67 Liter Cylinder US DOT 3AA-2130 Specification
- 100-lbm (45-kg) CO2 Capacity
- 0F (-18C) to 130F (55C) agency temperature range
- Type I Valve, 5/8"

DESCRIPTION

Kidde Fire Systems' High-Pressure Carbon Dioxide (CO2) Fire Suppression Systems use seamless steel cylinders to store carbon dioxide agent. The agent is stored under its own vapor pressure as a non-flammable compressed gas. Due to the physical properties of CO2, both the vapor and liquid state are present within the cylinder. Each assembly is factory fitted with a discharge valve and siphon tube. A US DOT compliant safety relief device, protecting the cylinder from over pressurization, is provided as part of the discharge valve assembly.

For shipment, a standard shipping cap is included, which mates to external threads on the cylinder neck to protect the discharge valve from inadvertent damage.

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.

- Straight Siphon Tube
- Underwriters' Laboratories Listed File Number EX923
- United States Coast Guard Approved

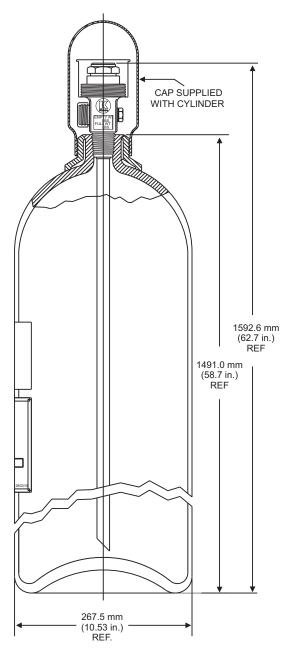


Figure 1. Cylinder

ORDERING INFORMATION

Description	Application	Approvals	Part Number
Cylinder & Valve Assembly, 100-lbm	Industrial	UL Only	81-100067-001
Cylinder & Valve Assembly, 100-lbm	Marine	UL & USCG	81-100067-003

REFERENCED COMPONENTS

Description	Reference Data Sheet	
Discharge Valve, 5/8"	K-81-1050	
Discharge Head, Plain Nut	K-81-1060	
Discharge Head, Groove Nut	K-81-1070	
Discharge Hose, ³ / ₄ " NPT	K-81-1090	
Adapter, Swivel	K-81-1105	
Cylinder Strap, Single	K-81-1230	
Cylinder Strap, Double	K-81-1240	
Control Head	K-81-8010* K-81-6020*	
Charging Accessories	K-81-9110	
Framing Kits	See manual: 81-CO2MAN-001	
Oak Rack Kits	See manual: 220610	
* Typical listed see referenced manuals for all applicable control heads.		

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