



CO₂ CYLINDER ASSEMBLY

DESCRIPTION

The Fike High-Pressure Carbon Dioxide (CO₂) Fire Suppression System uses seamless steel cylinders to store the carbon dioxide agent. The agent is stored under its own vapor pressure as a non-flammable compressed gas. Due to its physical properties, CO₂ is present within the cylinder in the vapor and liquid states. The cylinders are available in capacities of 50, 75, and 100 lb. (23, 34, and 45 kg.). Each cylinder is filled to capacity; partial fills are not allowed.

Each cylinder is factory fitted with a discharge valve and siphon tube. The cylinder valve (C85-010) holds the agent in the cylinder until it is actuated electrically, manually, and/or pneumatically with approved valve actuation components. The siphon tube ensures the complete discharge of the carbon dioxide agent from the cylinder.

A shipping cap that entirely encloses the valve is threaded onto the neck of each cylinder to protect the valve from accidental damage during shipment. The cap must be in place while transporting or handling the cylinder(s) and shall only be removed after the cylinder(s) has been secured using cylinder straps or racking.

ORDERING

Part Number	Description
C70-100	100 lb. CO ₂ Cylinder Assembly
C70-075	75 lb. CO ₂ Cylinder Assembly
C70-050	50 lb. CO ₂ Cylinder Assembly



SPECIFICATIONS

MATERIAL	Spun steel
FINISH	Red gloss, baked enamel, oil-based primer
THREAD SIZE	1-11 1/2 NGT, female
PRESSURIZATION LEVEL	850 psig @ 70°F (5861 kPa @ 21°C)
DOT RATING	3AA2015, 50 lb. (22.7 kg) cylinder 3AA2300, 75 and 100 lb. (34 and 45.4 kg) cylinders
APPROVALS	UL, FM, ULC, USCG
STORAGE TEMPERATURE	0° to 130°F (-18° to 54°C), total flood applications 32° to 120°F (0° to 49°C), local applications
CYLINDER GROSS WEIGHT	±151 lbs. (68.5 kg.), 50 lb. cylinder ±213 lbs. (96.6 kg.), 75 lb. cylinder ±287 lbs. (130.2 kg.), 100 lb. cylinder



DIMENSIONS

Cylinder P/N	C70-050	C70-075	C70-100
Cylinder Capacity	50 lb. (23 kg)	75 lb. (34 kg)	100 lb. (45 kg)
Dimension "A"	±56" (±1442 mm)	±61" (±1549 mm)	±63" (±1600 mm)
Dimension "B"	±8.50" (±215.9 mm)	±9.28" (±235.7 mm)	±10.68" (±271.2 mm)
Dimension "C"*	±54.2" (±1377 mm)	±59.2" (±1504 mm)	±61.2" (±1554 mm)

*Centerline of the valve discharge port.

