Kidde Engineered
Fire Suppression System

Designed for use with 3M™ Novec™ 1230 Fire Protection Fluid

900 lb. Cylinder

Effective: June 2015
K-45-9044

FEATURES

- ***Large Capacity Cylinder***
- ***3-inch Discharge Valve***
- ***Optional Liquid Level Indicator***
- ***Optional Low-level Switch (P/N 06-118263-001)***
- ***UL Listed, ULC Listed, and FM Approved for use with Novec 1230 Systems***
- ***TC Approved***

DESCRIPTION

Kidde Engineered Fire Suppression System 900 lb. cylinders store 3M™ Novec™ 1230 Fire Protection Fluid super-pressurized with dry nitrogen to 360 PSIG at 70°F (2.48 Mpa at 21°C). The cylinders are painted red and are equipped with a 3-inch pressure differential valve, pressure gauge, optional liquid level indicator and optional low-pressure switch assembly. The safety burst disc is also located on the cylinder head.

OPERATION

The agent storage container discharges when the actuation assembly operates, causing the pressure differential valve to open. All of the Kidde actuators may be used to actuate the 900 lb. cylinder. The only exception is the P/N 48650001, which is not compatible with this cylinder valve.

INSTALLATION

The container is installed in a vertical position with the valve assembly pointing up. Interconnection to discharge piping is 3-inch NPT. Interconnection can be via a 3-inch flex hose (P/N 06-118225-001) or via a suitably pressure rated groove style fitting.

The container is secured in place by a mounting bracket (P/N 236125), which must be fixed to a solid wall or strut assembly. After the container is securely mounted, it is connected to discharge piping per the directions in the Design, Installation, Operation and Maintenance Manual (P/N 45-N1230M-001).

An optional cylinder supervisory pressure switch (P/N 06-118262-001) can be installed on the cylinder valve in the field if required. This cylinder supervisory pressure switch has a 1/8-inch NPT connection, which is used on the 3-inch valve only. For cylinder valves manufactured prior to May 1, 2013, use supervisory pressure switch P/N 06-118263-001.

ORDERING INFORMATION

The part number for ordering the Kidde Engineered System 900 lb. cylinder without liquid level indicator is 45-100900-001. The part number for ordering the Kidde Engineered System 900 lb.cylinder with liquid level indicator is 45-100901-001.

MAINTENANCE

According to NFPA standards the following inspection and/or maintenance procedure must be scheduled as listed below and performed upon the occurrence of any event which might affect the reliability of the system.

QUARTERLY INSPECTION

1. Check the pressure gauges of each agent storage container. If the pressure gauge indicates a loss in pressure of 10% or more, then it shall be recharged or replaced. Pressure varies with temperature, and this must be taken into account when checking the pressure gauge.
2. Check all components, including supporting hardware, and tighten, repair or replace as required.
3. Replace any component if at all in doubt of its ability to perform properly.

SEMI-ANNUAL INSPECTION

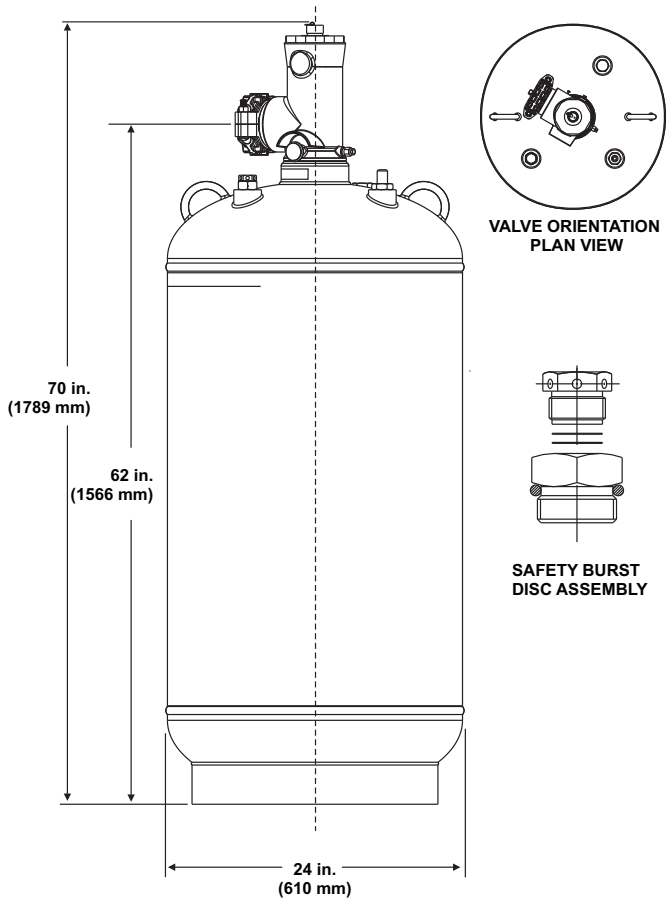
Qualified personnel are to determine the amount of agent in all containers. The optional liquid level indicator may be used to measure agent supply and compare it to the original net weight which is marked on the container label. If the measured net weight is less than 95% of the original charged weight the container should be recharged or replaced.

Inspect all piping, fittings and nozzles for looseness, dirt or other damage. All outlet piping must be clean and free of dirt, chips, fillings and other foreign material that may cause the system to become inoperative or ineffective at the time of discharge.

SPECIFICATIONS

Fill Range	455-910 lb. (206.4-412.8 kg)
Height	70 in. (1789 mm)
Diameter	24 in. (610 mm)
Internal Volume	13 ft.^{3} (0.368 m^3)
Empty Weight	505 lb. (229 kg)
Temperature Range	0°F to 130°F (-18°C to 54°C)
Safety Relief Burst Range	800 to 975 PSIG (5.5 to 6.7 Mpa)
Construction Specification	DOT 4BW-500

DIMENSIONS



ACCESSORIES

Description	Part Number
3-inch stainless steel flexible hose	06-118225-001
3-inch swing check valve	06-118058-001
Cylinder bracket	06-236125-001
Cylinder supervisory pressure switch	06-118262-001*

*For cylinder valves manufactured prior to May 1, 2013 use supervisory pressure switch P/N: 06-118263-001.

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If you need more information on this product, or if you have a particular problem or question, contact KIDDE-FENWAL, INC., Ashland, MA 01721. Telephone: (508) 881-2000.

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Kidde Fire Systems
400 Main Street
Ashland, MA 01721
Tel.: 508-881-2000
Fax: 508-881-8920
www.kiddefiresystems.com