

ECARO-25 SERIES S70 U.S. DOT SOLENOID ACTUATED CONTAINERS

DESCRIPTION

Fike Series S70 Clean Agent Containers are used in ECARO-25 fire extinguishing systems to store the clean agent until a fire develops and the HFC-125 agent must be released. The clean agent is retained in the container by a valve assembly which contains a fast acting rupture disc. The disc will be ruptured, and the clean agent released, through the operation of an actuator by an electric signal that is automatically or manually controlled. The valve, which contains the rupture disc, is available in two sizes: 1", and 3". The 1" valve is used on the 8.5, 15, 27, and 44 liter; the 3" valve is used on the 88, 153, 267, and 423 liter DOT manufactured containers. After a discharge, the valve is field reconditioned by simply replacing three components on the valve.

Fike Series S70 Clean Agent Containers are used in installations where 3.5 to 379 kg of clean agent are required. To eliminate the need of multiple containers, or using more clean agent than necessary, these containers can be filled in 0.5 kg increments to their maximum capacity. The clean agent used in these containers has a natural vapor pressure of 13 barg at 25°C and is super-pressurized with dry nitrogen to 25 barg, at 21°C, to provide a quick and effective discharge in 10 seconds or less.

Fike Series S70 Clean Agent Containers are supplied with a pressure gauge that permits a quick, visual, inspection of container pressure. Optional items include a Liquid Level Indicator, and a Low Pressure Supervisory Switch. The Liquid Level indicator provides the convenience of determining the container's agent weight without removing it from its installed location. The Low Pressure Supervisory Switch provides constant monitoring of the container's internal pressure, and can be either normally opened or normally closed. In the event of a decrease in container internal pressure from 25 barg to 19 barg, the Supervisory Switch's normally opened/closed contacts will close/open. This will cause a supervisory trouble alarm at the system control panel.

Containers are available for installation in an upright or horizontal position. The mounting location of the container is quite flexible. It can be mounted at the exact point of discharge or at a remote location by adding distribution piping from the container to the nozzle system. (Refer to the Fike Design, Installation and Maintenance Manual - P/N 06-238). The operating temperature range is 5° to 49°C in any installation. When the contained clean agent reaches a high internal temperature it will create sufficient internal pressure to burst the rupture disc and release the clean agent.

CONTAINER SPECIFICATION

Fike Clean Agent Containers are manufactured in compliance with strict pressurized cylinder governing agencies. The S70 Series, 4.0 through 423 liters, are manufactured to DOT specification 4BW500 with a test pressure of 69 barg. Before leaving the factory, each container must pass extensive leakage and pressure testing. The containers are constructed from carbon steel alloys and painted with a durable, baked enamel finish.

INSTALLATION

Fike Series S70 Clean Agent Containers are supplied with a mounting bracket that is designed to provide the most effective and versatile installation for that particular container.



ECARO-25 Series S70 Solenoid Actuated Containers

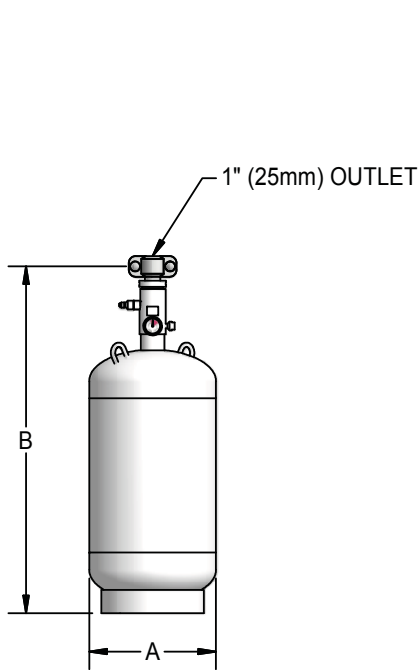
APPROVALS

- FM Approved - 3014476

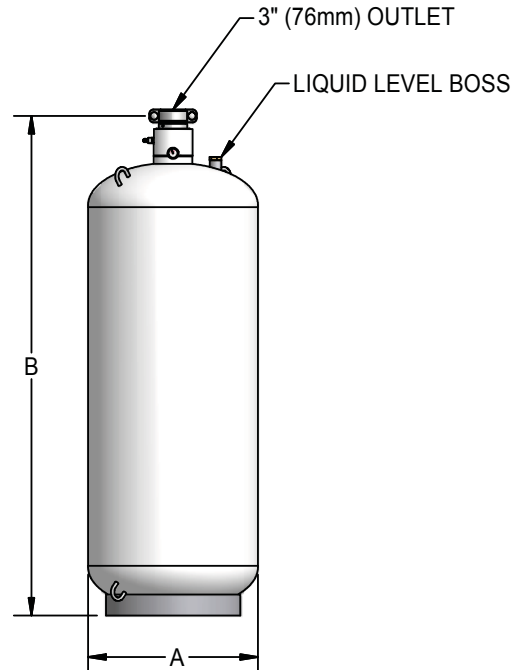
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CONTAINER TARE WEIGHTS AND FILL RANGES

Fike P/N	Container Size (Liter)	Valve Size (IN)	Empty Wt (Kg)	Agent Fill Range (Kg)	Valve Position
S70-098	8.5	1	9.5	3.5-7.5	Horiz/Upright
S70-089	15	1	14.1	6.5-13.5	Horiz/Upright
S70-152	27	1	23.6	11.5-24.5	Horiz/Upright
S70-153	44	1	33.6	18.0-39.0	Upright-Floor Mount
S70-154	88	3	71.2	35.5-78.5	Upright-Floor Mount
S70-155	153	3	101.6	61.5-137.0	Upright-Floor Mount
S70-156	267	3	174.6	107.0-239.5	Upright-Floor Mount
S70-157	423	3	244.9	169.5-379.5	Upright-Floor Mount



4.0-44 L Containers - 25mm Valve Outlet



88-423 L Containers - 76mm Valve Outlet

CONTAINER DIMENSIONS

Size - Liter	4.0	8.5	15	27	44	88	153	267	423
A (mm)	140	184	184	273	273	508	508	610	610
B (mm)	502	546	826	711	984	733	1080	1237	1778

ARCHITECT AND ENGINEERING SPECIFICATIONS

The clean agent shall be stored in Fike Series S70 Clean Agent Storage Containers. The containers shall be capable of being filled in 0.5 kg increments to their listed maximum capacity. The clean agent container shall be activated by a signal from the control panel.

The valve shall contain a scored, non-fragmenting, rupture disc to provide an immediate total discharge of all the agent. The clean agent is stored in the container as a liquid, having a natural vapor pressure of 13 barg at 25°C. To aid in discharge, the container shall be super-pressurized to 25 barg at 21.1°C with dry nitrogen. Agent discharge shall be completed in 10 seconds or less.

Clean Agent Storage Containers shall be actuated by an electrical signal that is automatically or manually controlled. Normal operating temperature shall be 5° to 49°C in any installation.

Clean Agent Storage Containers shall be equipped with a pressure gauge to display internal pressure. This gauge shall be an integral part of the container and color coded for fast referencing of pressure readings. A Low Pressure Supervisory Switch shall be made available, as an option. A decrease in internal container pressure from 25 barg to 19 barg shall cause the normally opened/closed Supervisory Switch contacts to close/open, indicating a trouble or supervisory condition, at the control panel.

Clean Agent Storage Containers shall be fastened to a wall, or other secure surface, using a one piece mounting bracket for the Series S70 containers.



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