



Carbon Dioxide Fire Suppression Systems

- DESIGN
- SUPPLY
- INSTALL
- MAINTAIN

*your **TRUSTED** partner in fire safety*

AN ENVIRONMENTALLY

EFFECTIVE, SAFE

FIRE SUPPRESSION

AGENT WHICH IS

COLORLESS, ODORLESS,

AND ELECTRICALLY

NON-CONDUCTIVE.

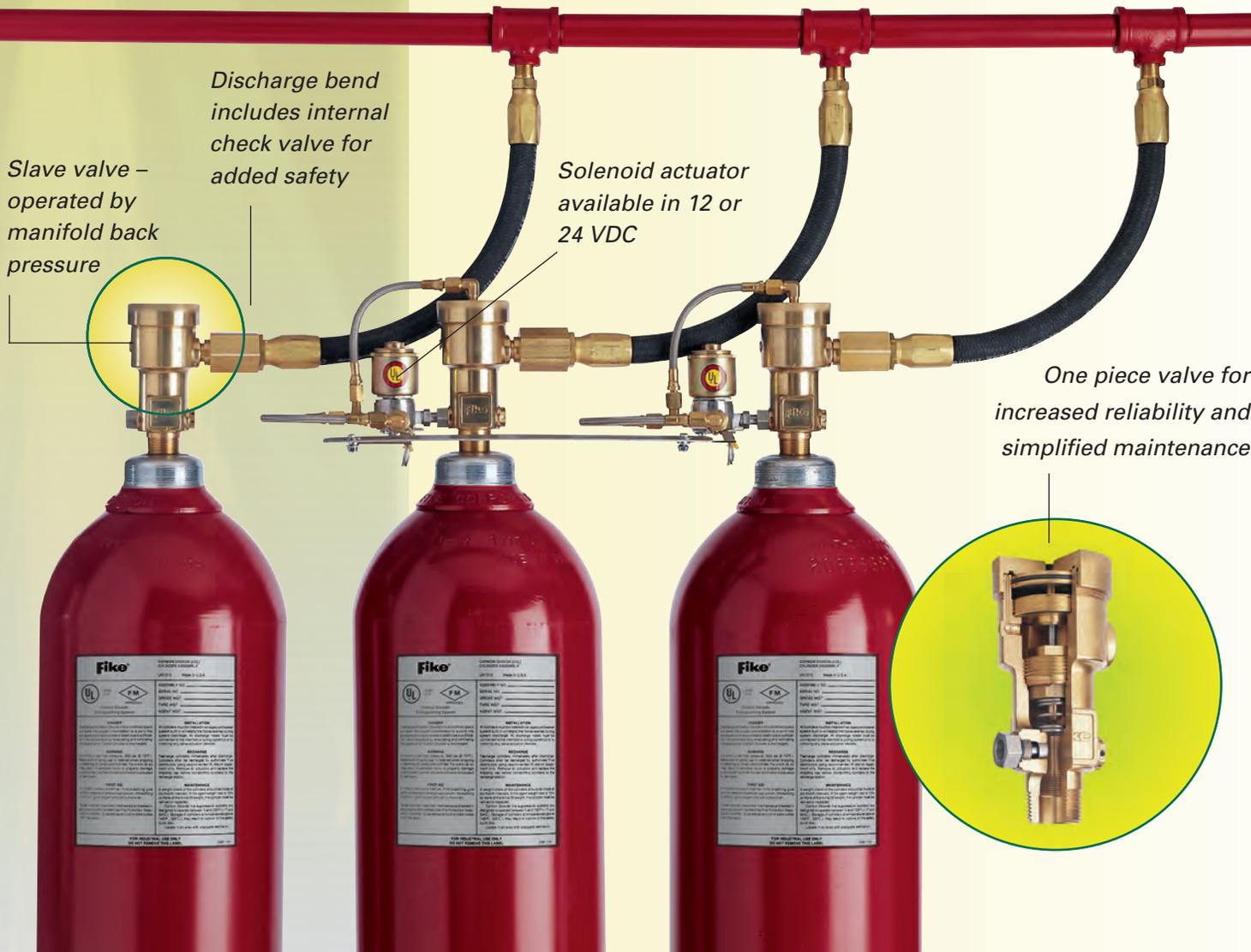
Why Carbon Dioxide?

Carbon dioxide is an effective fire suppression agent applicable to a wide range of fire hazards. Carbon dioxide works quickly, with no residual clean-up associated with a system discharge which translates into **minimal business interruption**.

Other Benefits of a Fike Carbon Dioxide Fire Protection System Include:

- **Fast and Effective** - within seconds, CO₂ penetrates the entire hazard area to smother the combustion.
- **Electrically non-conductive** - for a wide range of applications.
- **Versatile** - CO₂ is effective on flammable and combustible materials and approved for Class A, B, and C hazards.
- Full **1 year warranty**
- **Environmentally friendly** - because carbon dioxide is naturally found in the atmosphere, there is no environmental impact.
- **ISO 9001 Certified**
- Recognized by top independent listings and approvals agencies:
 - **FM**
 - **UL**
 - **USCG Marine Approved**

FIKE CO₂ – RELIABLE, FAST, AND EFFECTIVE

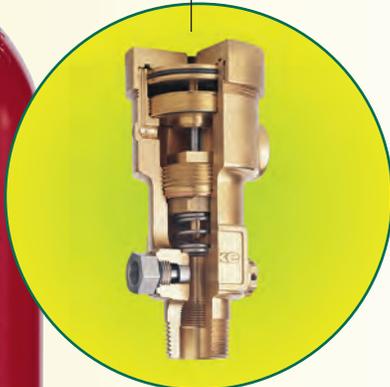


Slave valve – operated by manifold back pressure

Discharge bend includes internal check valve for added safety

Solenoid actuator available in 12 or 24 VDC

One piece valve for increased reliability and simplified maintenance



Total Flooding and Local Application Systems

Both CO₂ systems consist of a fixed supply of carbon dioxide connected to a piping network for agent distribution. A total flooding system quickly extinguishes both surface and deep seated fire hazards by discharging the agent into an enclosed volume. A local application system is used when the hazard is non-enclosable. Local application systems protect a two- or three-dimensional hazard by discharging the carbon dioxide directly on the burning material.

How Does Carbon Dioxide Work?

Fike Carbon Dioxide systems use intelligent, reliable, and fast acting controls to quickly sense a fire before it can cause costly damage to your property. Carbon dioxide gas has a high rate of expansion which allows it to work fast. When applied to a fire, CO₂ provides a heavy blanket of gas that reduces the oxygen level to a point where combustion cannot occur. Since carbon dioxide is a gas, there is no clean-up associated with a system discharge — which means minimal business interruption.



Applications for CO₂

- Flammable liquid storage areas
- Quench tanks
- Mixing operations
- Spray booths
- Turbine driven generators
- Electrical areas
- Dust collectors
- Engine rooms



UL/FM FIRE SUPPRESSION CONTROLS THAT FIT YOUR NEEDS



Fike's intelligent Cheetah Xi[®] system turns every device into a peer. These peers not only communicate up-to-the-second information to the control panel, they also communicate with each other.



Each device is capable of generating accurate and highly detailed information. Conventional systems give you a general idea of a fire's location — for example, the second floor of your building. Cheetah Xi's intelligent sensors tell you precisely which device is in alarm and specific information on that hazard — for example, a specific location on the second floor.

Cheetah Xi modules can control processes or integrate with other systems such as:

- Shutdowns
- HVAC / Smoke Control
- Voice Evacuation Systems
- Dampers
- Doors
- Elevators
- Releasing of Clean Agent Suppression, Carbon Dioxide Suppression, Watermist, Foam, and Sprinkler / Pre-Action
- Security / CCTV / Building Management

In addition, Fike offers a reliable, conventional fire detection system, the SHP PRO[®]... easily configured for use within a wide range of industries and fire suppression applications.



TRUST

Phoenix Fire Systems is the trusted, dynamic partner for companies across Canada, providing complete coverage in fire safety.

KNOWLEDGE

For decades we have been bringing together the most knowledgeable staff, best quality equipment and timely solutions to our clients' fire protection needs across every field. We are factory authorized and trained for the world's leading manufacturers of fire suppression equipment.

PEACE OF MIND

We design, supply, install and maintain systems in accordance with the Ontario Fire Code and manufacturer's specifications including;

- ✓ **High Pressure Carbon Dioxide (CO2) Systems**
- ✓ **Argon Systems**
- ✓ **Clean Agent (FM-200®, Novec 1230™) Systems**
- ✓ **Dry Chemical Industrial Systems**
- ✓ **Wet Chemical Kitchen Systems**
- ✓ **WaterMist Systems**

- ✓ **Video Imaging Detection Systems**
- ✓ **Spark Detection**
- ✓ **Linear Heat Detection**



416 742 7222

119 Milvan Drive, Toronto, ON, M9L 1Z8
customerservice@phoenixfiresystems.ca

phoenixfiresystems.ca