

# FIKE PROTECTION SYSTEMS

CO<sub>2</sub> FIRE

SUPPRESSION

SYSTEM FOR

MARINE APPLICATIONS

marine



**Fike**<sup>®</sup>  
CORPORATION

An environmentally  
effective, safe  
fire suppression agent  
which is  
colorless, odorless,  
and electrically  
non-conductive.

## Why choose a Fike Marine CO<sub>2</sub> System?

- Fike's Marine CO<sub>2</sub> valve allows the pneumatic actuator to connect directly to the master valve without additional actuation components.
- The pneumatic time delay is installed directly in the manifold, minimizing the use of separate actuators and valves to control agent flow.
- All levers and controls are included with the system components allowing easy installation.

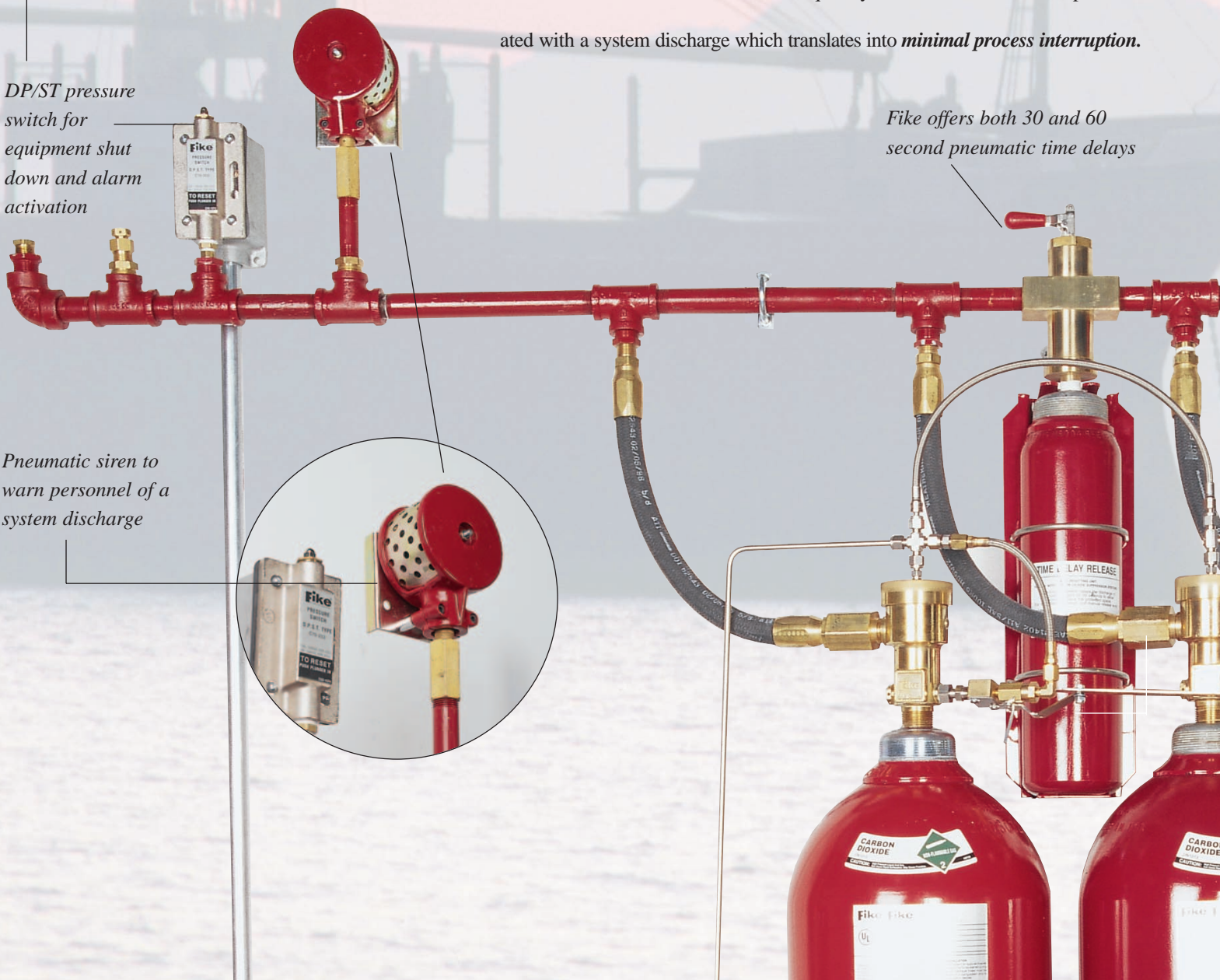
## Fike Marine CO<sub>2</sub> - Reliable, Fast, and Effective

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 process interruption*.

DP/ST pressure  
switch for  
equipment shut  
down and alarm  
activation

Pneumatic siren to  
warn personnel of a  
system discharge

Fike offers both 30 and 60  
second pneumatic time delays

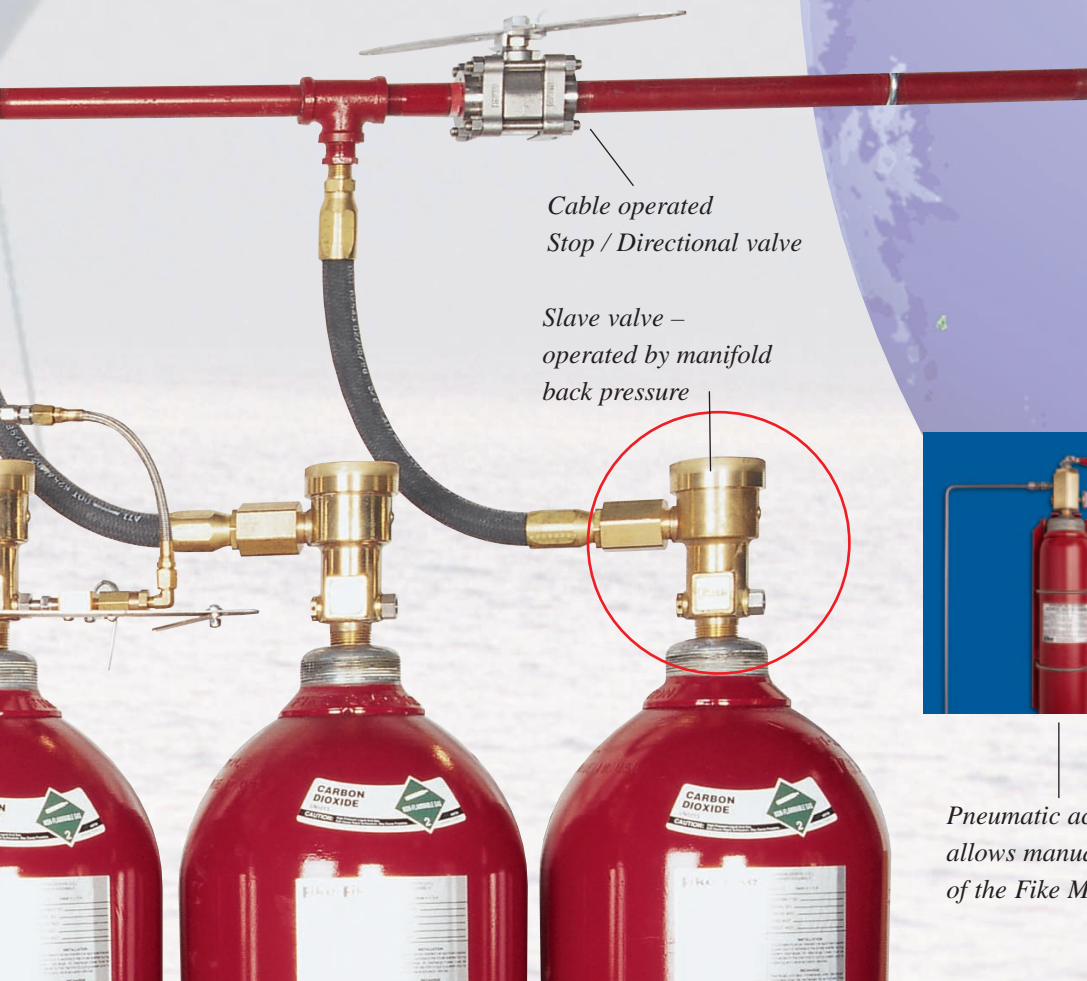


## How Does the Fike Marine CO<sub>2</sub> System Work?

The Fike Marine Carbon Dioxide Extinguishing System uses single or two-step manual actuation to operate the system. Primary manual actuation is accomplished via a pneumatic manual actuator. The manual actuator activates the master cylinders, a pneumatic siren to evacuate the area and a pneumatic time delay (30 or 60 seconds) which will delay total system discharge. When the delay expires, any slave cylinders will be activated and the system will discharge into the hazard if the secondary manual actuation is active.

Carbon Dioxide gas has a high rate of expansion which facilitates rapid discharge and allows for quick three dimensional penetration of the entire hazard area. When applied to a fire, CO<sub>2</sub> 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 process interruption.

- Cargo spaces
- Machinery spaces
- Pump rooms
- Paint lockers
- Enclosed ventilation systems for rotating electrical equipment
- Chemical storage rooms



*Cable operated  
Stop / Directional valve*

*Slave valve –  
operated by manifold  
back pressure*



*Pneumatic actuator  
allows manual actuation  
of the Fike Marine CO<sub>2</sub> system*

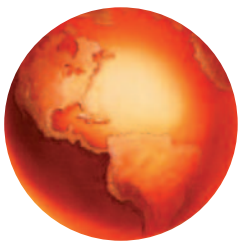


*World headquarters of Fike Corporation*

## Why Fike Protection Systems?

Fike is your single source supplier. We provide all the components necessary for a high quality carbon dioxide fire suppression system.

- Fike has experience required for special hazard applications. Our vast experience in solving the specific needs of our clients is unmatched in the fire suppression industry.
- Each Fike Carbon Dioxide installation is custom designed and engineered to meet the needs of your specific fire protection requirements.
- In addition to Carbon Dioxide, Fike Protection Systems supplies a variety of special hazard systems for your applications, including Clean Agent, Watermist and Advanced Detection & Control systems.
- Fike Protection Systems has a worldwide network of experienced distributors each with a staff of factory trained technicians to meet your installation and service requirements.
- ISO 9001 Certification ensures quality products.
- Other Fike products and services of possible interest: “Total Concept Explosion Protection”, including explosion testing, explosion venting, explosion isolation, and explosion suppression systems to mitigate the effects of industrial explosions. For information on these products, visit our website, e-mail [fmssales@fike.com](mailto:fmssales@fike.com), or call our world headquarters.



704 South 10th Street • P.O. Box 610 • Blue Springs, Missouri 64013-0610 USA  
(816) 229-3405 • Telefax (816) 229-4615 • E-mail: [fmssales@fike.com](mailto:fmssales@fike.com) • [www.fike.com](http://www.fike.com)

Copyright © 2002 by Fike Corporation. All rights reserved. FORM NO B9072-0499. Printed in the U.S.A.