

Marine application



# BSKY CO<sub>2</sub> High-Pressure Carbon Dioxide Extinguishing System



Over 30 years of fire protection expertise. Your trusted supplier of complete ship fire systems.

## Mature and reliable fixed gas fire extinguishing system

CO<sub>2</sub> Fire extinguishing agent is a kind of colorless, tasteless and non-conductive inert gas, which has no destructive effect on most substances, and can quickly escape after fire extinguishing, leaving no trace, and no toxicity. Suitable for all kinds of combustible, flammable, liquid, live equipment and those affected by water, foam, dry powder fire extinguishing agent is easy to damage the solid material fire. High-pressure carbon dioxide fire extinguishing system is the oldest fixed gas fire extinguishing system with the most mature fire extinguishing technology in the development history of gas fire extinguishing system.

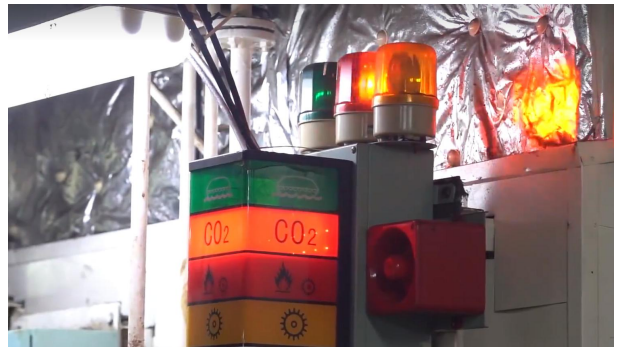
Carbon dioxide has a high density, about 1.5 times that of air. In often Under the pressure, liquid carbon dioxide vaporizes, usually 1kg of liquid State carbon dioxide can produce about 0.5 cubic meters of gas. Therefore, fire fighting Carbon dioxide gas can exclude air and surround the burning object The surface or distributed in a more confined space, reduce the combustible around or the oxygen concentration in the protective space, causing suffocation and extinguishing the fire. Another outside, carbon dioxide quickly vaporizes by a liquid when it is ejected from the cylinder into a gas, absorb a lot of heat around, play a cooling role.

Carbon dioxide has a high fire extinguishing effect, can be quickly extinguished mostly the number of combustible flame. It can effectively reduce the temperature of the flame and Energy, to organize the spread of the fire.

No residue left after carbon dioxide extinguishing, not on the equipment and the items caused by the damage. This makes it particularly applicable for both the electrical equipment and fire fighting of sensitive materials.

Carbon dioxide has a good inert and chemical stability. It doesn't burn with it the burned substances will have chemical reactions and will not cause any corrosion and dirt dyeing problem, that is, it can effectively prevent the fire extinguishing agent itself on the combustion material cause damage or secondary disasters.

BSKY CO<sub>2</sub> fire extinguishing system model is CDE-2, which is suitable for all types ships, can also be used in ports, docks and other places. The system is associated with fire the alarm system can automatically use the fire on the ship alarm and conduct pneumatic or manual operation. It is reliable and reliable fast, safe, efficient and other advantages.



BSKY CO<sub>2</sub> meet the requirements of single ship certification of BV,NK,ABS,LR,RS.

BSKY CO<sub>2</sub> is type approved and certified to be in compliance with MSC.206(81) an MSC.339(91).

# BSKY CO<sub>2</sub>

## According with

- Chapter 5 of International Code for Fire Safety Systems, as Amended by MSC.206(81) and MSC. 339(91)
- Chapter 2, Part Six of China Classification Society Rules for Classification of Sea-Going Steel Ships 2022 and its Amendments
- Chapter 2-2 Part Four of Technical Regulations for the Statutory Surveys of Sea-going Ships Engaged on Non-international Voyages (2020) and its Amendments, of MSA, P.R.China
- Chapter 3, Part Five of Technical Regulations for the Statutory Surveys of Inland Waterways Ships (2019) and its Amendments, of MSA, P.R. China

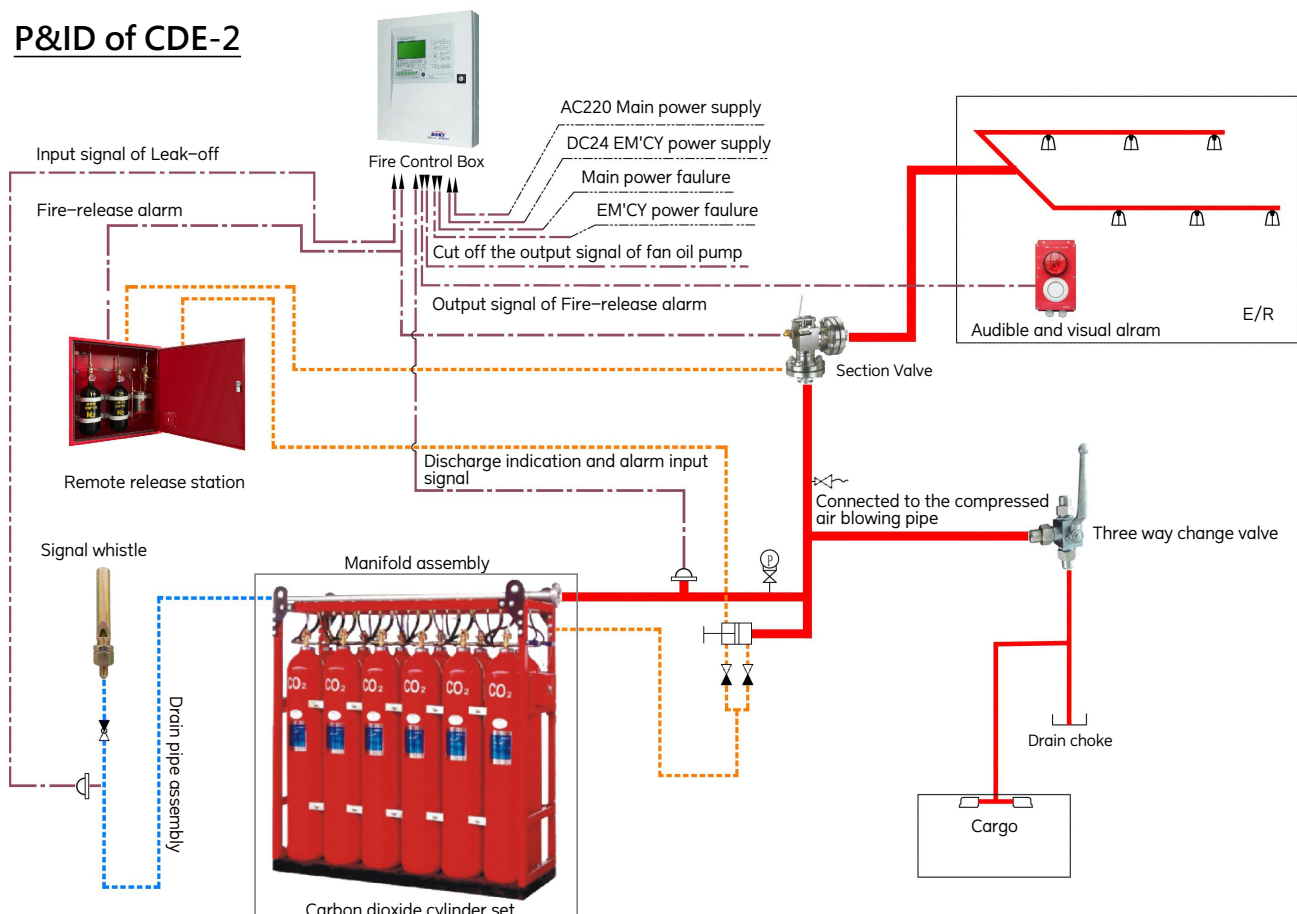
## Application

Machinery Spaces, Cargo Holds, Paint room, Pump Rooms and similar spaces.

## Technical parameters

Type	Working Pressure ( MPa )	Bottle Volume ( L )		CO <sub>2</sub> Filling Rate ( Kg/L )	Environment Condition	
Skid type	15	N <sub>2</sub>	CO <sub>2</sub>	≤0.67	Temperature ( °C )	Humidity
		4	40		-10 ~ 50	93 ± 3%
			70			
Working Voltage		Operation Model		Release Delay ( S )	Start Gas Source	
DC24 ± 10%		Pneumatic	Manual	20~40	Gas	Working Pressure ( MPa )
					N <sub>2</sub>	6

## P&ID of CDE-2



# BSKY CO<sub>2</sub>

## CO<sub>2</sub> cylinder set

CO<sub>2</sub> The cylinder set is composed of frame, bottle head valve, collection pipe equipped with one-way valve, discharge pipe, etc. It can be opened by remote control, or manually in CO<sub>2</sub> room, kitchen, paint room, etc.

CO<sub>2</sub> cylinder assembly frame has a single column cylinder assembly, double column disassembly on both sides of the cylinder assembly, double column unilateral disassembly cylinder assembly, etc.

Type	Working pressure (MPa)	Storage temperature (°C)	Volume (L)
CEMP70/15	15	-10 ~ 50	70
CEMP40/15	15	-10 ~ 50	40



## Remote release station

The remote discharge station consists of box body, control gas cylinder, low discharge safety valve, pressure gauge, delay tank, etc. It is used to remotely operate the fire extinguishing device in the carbon dioxide station room to extinguish the fire operation in the cabin.

Single cylinder volume	Number of cylinders	Fill gas	Filling pressure (MPa)	Time-delay (S)
4L	2	N <sub>2</sub>	6	20~40



## Selector valve

The selection valve is a control component used to control the injection of the fire extinguishing agent into the specified protection area. Select the valve is normally closed. When the fire occurs, the driving gas enters the selection valve driving cylinder and pushes the piston in the cylinder. Through the connecting rod mechanism action, make the selection valve pressure arm open. At this time, the selection valve is in the open state. Then drive the gas and open the container valve, release the fire extinguishing agent, and send it into the protection area through the selection valve to implement the fire extinguishing.

Connection type	Working pressure (MPa)	Nominal diameter
Screw	15~17.2	25~80
Flange		100~150



## Spray nozzle

CO<sub>2</sub>The nozzle function is to spray the fire extinguishing agent directly to the protected place. Choose different forms of nozzles according to different places.

Type	The nozzle aperture	Where to use
A	Φ6-Φ12	ER/PR
B	Φ20	Cargo



Website



Wechat

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