

Efficient and Safe Marine CO₂ Fire Extinguishers — Protecting Your Vessel and Crew Safety

Our Product Introduction

for more products please visit us on firefm200.com

Basic Information

- Place of Origin: Guangzhou, Guangdong, China
- Brand Name: RUIGANG
- Certification: CCS BV
- Model Number: RG-68/40/20/12/10/8
- Minimum Order Quantity: 1 set
- Price: negotiable
- Packaging Details: Plywood outer box with bubble bag or paper
- Delivery Time: 15~20 work days
- Payment Terms: T/T, L/C
- Supply Ability: 500 sets/ month



Product Specification

- Actuating Method: Pneumatic, manual
- Nominal Pressure: 14.7MPa
- The CO₂ Cylinder Volume: 8L/10L/12L/20L/40L/68L
- N₂ Pilot Cylinder: 4L
- The CO₂ Cylinder Filling Rate: ≤0.67KG/L
- Hydraulic Test Pressure: 24.5MPa
- Propellant Gas: N₂
- Activation Gas Source Pressure: 5.9MPa
- Discharge Delay Time: 20~40s
- Diaphragm Burst Pressure: 18.6±1MPa
- Highlight: **Efficient Marine CO₂ Fire Extinguishers, Safe Marine CO₂ Fire Extinguishers, Vessel Marine CO₂ Fire Extinguishers**



Product Description

Marine CO₂ Fire Extinguishing System Product Introduction

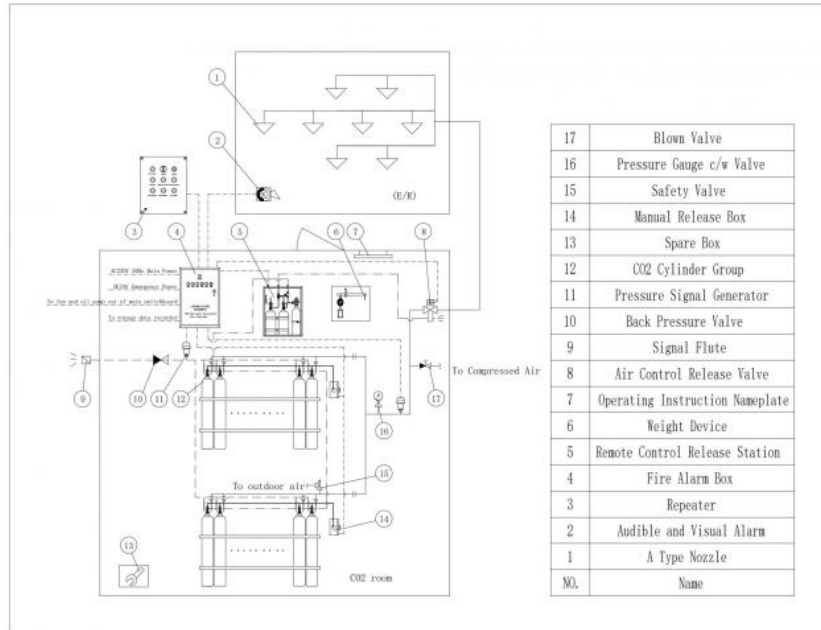
The shipboard CO₂ fire extinguishing system is a common and effective firefighting device widely used in critical areas of ships, such as engine rooms, cargo holds, and electronic rooms. This system works by releasing carbon dioxide gas to reduce the oxygen concentration in the fire-affected area, thereby extinguishing the fire. Since CO₂ can quickly and efficiently suppress flames without leaving any residue, it is widely used in enclosed spaces for fire suppression.

1. **System Principle:** The CO₂ fire extinguishing system rapidly releases high - pressure liquid CO₂ to create a high - concentration gas environment in the protected area, reducing oxygen levels (asphyxiation) and absorbing heat (cooling), thereby interrupting the combustion process. Its non - conductive and residue - free properties make it ideal for enclosed spaces or areas with sensitive equipment.

2. **System Components:**

Our Product Introduction

- 1. CO₂ Cylinders:** Store high - pressure liquid CO₂, with a capacity of 8L - 68L and a pressure resistance of 24.5MPa.
- 2. Cylinder Valve & Discharge Valve:** Control the release of CO₂, supporting both pneumatic and manual activation.
- 3. Remote Control Station:** Contains a nitrogen - driven bottle (4L, 5.9MPa), pressure gauge, timer, etc., enabling precise area control.
- 4. Fire Alarm Controller:** Interacts with smoke/temperature detectors to trigger automatic fire extinguishing.
- 5. Distribution Pipes & Nozzles:** Optimally designed to ensure uniform coverage of the protected area by CO₂.



3. Technical

Specifications:

Model	RG-68/40/20/12/10/8	RGM-68/40/20/12/10/8
Actuating Method	Pneumatic or Manual	Manual
Nominal Pressure	14.7 MPa	
Cylinder Capacity	CO ₂ Cylinder 8L/10L/12L/20L/40L/68L	
N ₂ Pilot Cylinder	4L	
CO ₂ Cylinder Filling Rate	≤0.67 kg/l	
Hydraulic Test Pressure	24.5 MPa	
Diaphragm Burst Pressure	18.6±1 MPa	
Discharge Delay Time	Pneumatic: 20~40s	Manual: 20~40s
Propellant Gas	Gas: N ₂	
Gas Pressure	5.9MPa	



Remote control release box



Technical Parameters				
Volume per cylinder	The number of cylinder	Filling gas	Filling pressure	Time delay
4L	2	N2	5.9MPa	20~40s

Air control discharge valve



Technical Parameters			
The connection form	Nomimnal pressure (MPa)	Nominnal diameter (mm)	Applicable medium
Thread,flange	14.7	DN25~DN32	CO ₂
The flange	14.7	DN40~DN125	CO ₂

Discharge valve



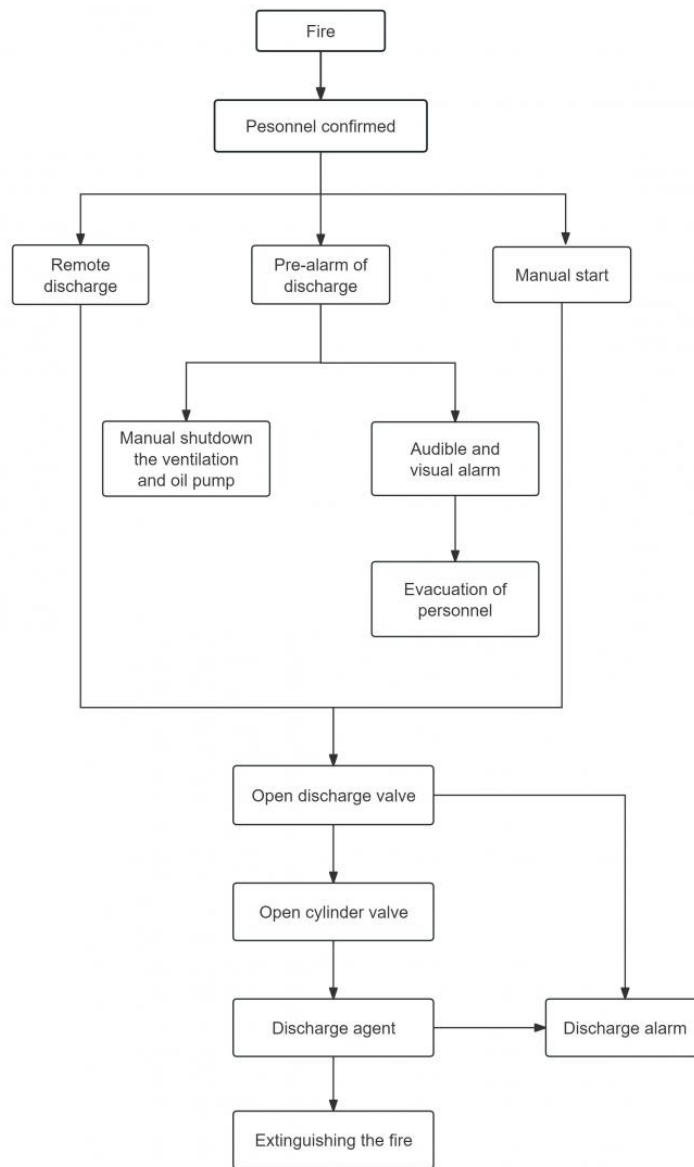
Technical Parameters		
Nomimnal pressure (MPa)	Nominnal diameter (mm)	Applicable medium
14.7	DN15~DN65	CO ₂

4. Applications:

1. Engine Rooms & Equipment Spaces
2. Cargo Tanks & Pump Rooms
3. Paint Rooms & Generator Rooms
4. Offshore Platform Enclosed Areas

5. Workflow :

5. Fire alarm triggers the system.
6. Remote station activates delay (20 - 40s) with evacuation alarms.
7. N₂ pilot gas opens CO₂ cylinders, releasing atomized CO₂.
8. Fire suppression within 10 - 60s, preventing reignition.



6. Key Advantages:

1. High Efficiency: Rapid flame

suppression with minimal thermal damage.

2. Zero Residue: Safe for sensitive equipment and eco - friendly.

3. Cost - Effective: Low maintenance, lifespan >15 years.

4. Modular Design: Independent control for multiple zones.

7. Manufacturing Standards:

9. China Classification Society (CCS) "Rules for the Classification of Sea-going Steel Ships" (2021) and its amendments, Chapter 2, Chapter 6
10. Chapter 5 of the International Code for Fire Safety Systems, as amended by MSC.206(81), MSC.339(91)
11. Maritime Safety Administration of the People's Republic of China "Technical Rules for the Statutory Survey of Domestic Sea-going Vessels" (2020), Chapter 4, Section 2-2
12. Maritime Safety Administration of the People's Republic of China "Technical Rules for Statutory Inspection of Inland River Vessels" (2019), Chapter 5, Section 3
13. Maritime Safety Administration of the People's Republic of China "Technical Rules for Statutory Inspection of Ocean-going Vessels" (2019), Chapter 9, Section 6
14. CB/T 3294-2020 Marine CO2 Fire Extinguishing Equipment



**Guangzhou Ruigang
Fire-Fighting
Equipment Co., Ltd.**



+86 18124226119



No. 2, Zhongwei
Road, Dongyong
Town, Nansha
District,
Guangzhou

18124226119@139.com