

رؤية  
VISION 2030  
المملكة العربية السعودية  
KINGDOM OF SAUDI ARABIA



**SFFECO**  
**CO<sub>2</sub>**

High Pressure Carbon Dioxide  
**Fire Extinguishing System**

# General Description

CO<sub>2</sub> is a colorless, odorless, electrically nonconductive gas that is a suitable medium for extinguishing fires. When a fire is detected, the CO<sub>2</sub> suppression system will activate and discharge CO<sub>2</sub> into the area where the fire is present. The CO<sub>2</sub> displaces the oxygen in the environment which will cause the fire to be extinguished.

On large hazards where several cylinders are required, a manifold is used to connect each cylinder by means of flexible hoses and check valves. Cylinder valves control the CO<sub>2</sub> flow to the hazard through properly sized pipe, terminating in nozzles that apply the CO<sub>2</sub>. Flow rate is controlled by nozzle orifices as well as pipe sizes. The master cylinder valves can be automatically and/or manually operated.



Directional Valve



Inline Check Valve



CO<sub>2</sub> Discharge Nozzle (Dome Type)



CO<sub>2</sub> Discharge Nozzle (Reset Type)



CO<sub>2</sub> Discharge Nozzle (Open Type)



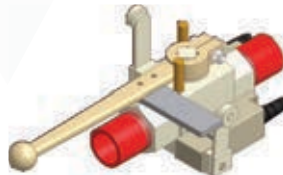
Pressure Operated Siren



Bleeder Valve



Safety Release Valve



Lock Out Valve



Pressure Switch



High Pressure Flexible Hose with Swivel Nut



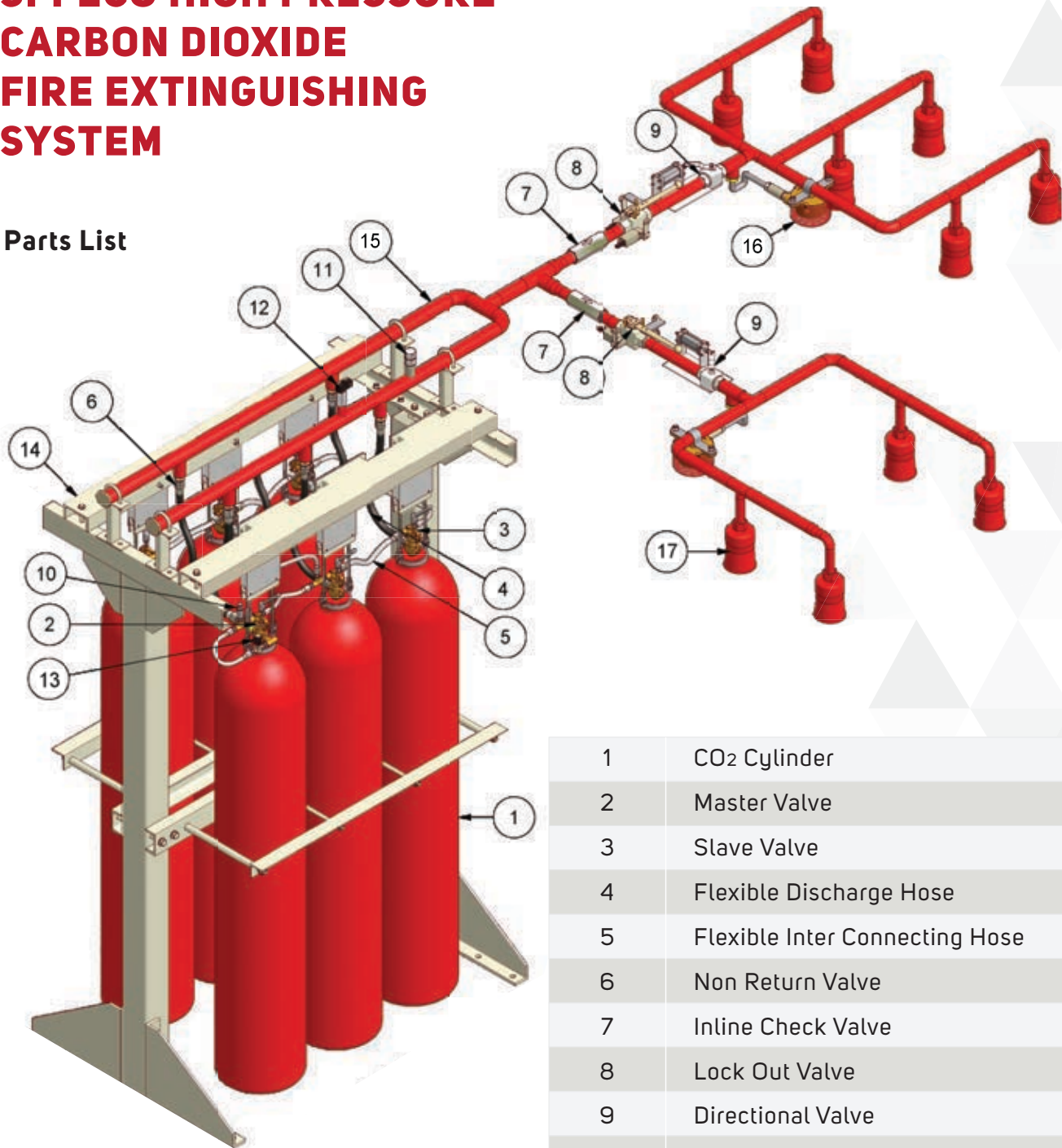
Non Return Valve



In line with our policy of continuous product improvement, SFFECO reserves the right to modify specifications without prior notice.

# SFFECO HIGH PRESSURE CARBON DIOXIDE FIRE EXTINGUISHING SYSTEM

## Parts List



## General Features

- ▶ Suppress fire quickly
- ▶ Non - conductivity helps to use on live electrical equipment
- ▶ Leaves no residue and is not as damaging to electrical equipment as powder
- ▶ Suitable for class B and Electrical fires
- ▶ Can be used at IT server room, art galleries, museums, laboratories, document storage, etc.

1	CO2 Cylinder
2	Master Valve
3	Slave Valve
4	Flexible Discharge Hose
5	Flexible Inter Connecting Hose
6	Non Return Valve
7	Inline Check Valve
8	Lock Out Valve
9	Directional Valve
10	Bleeder Valve
11	Safety Release Valve
12	Pressure Switch
13	Solenoid Valve
14	Cylinder Mounting Frame
15	Manifold
16	Pressure Operated Siren
17	CO2 Discharge Nozzle

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# Carbon Dioxide Fire Extinguishing System

## System Components



12mm-Valve for Fire Suppression Systems



12mm-Solenoid Valve for Fire Suppression Systems



Pneumatic Valve



Pneumatic / Manual Actuator for Valves



Cylinder Mounting Frame



Pneumatic Time Delay Unit



Mechanical Weight Loss Indicator

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## شركة المصنع السعودي لأجهزة الإطفاء SAUDI FACTORY FOR FIRE EQUIPMENT Co.



**40**  
Years Of  
INNOVATIVE  
FIRE SAFETY SOLUTIONS

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