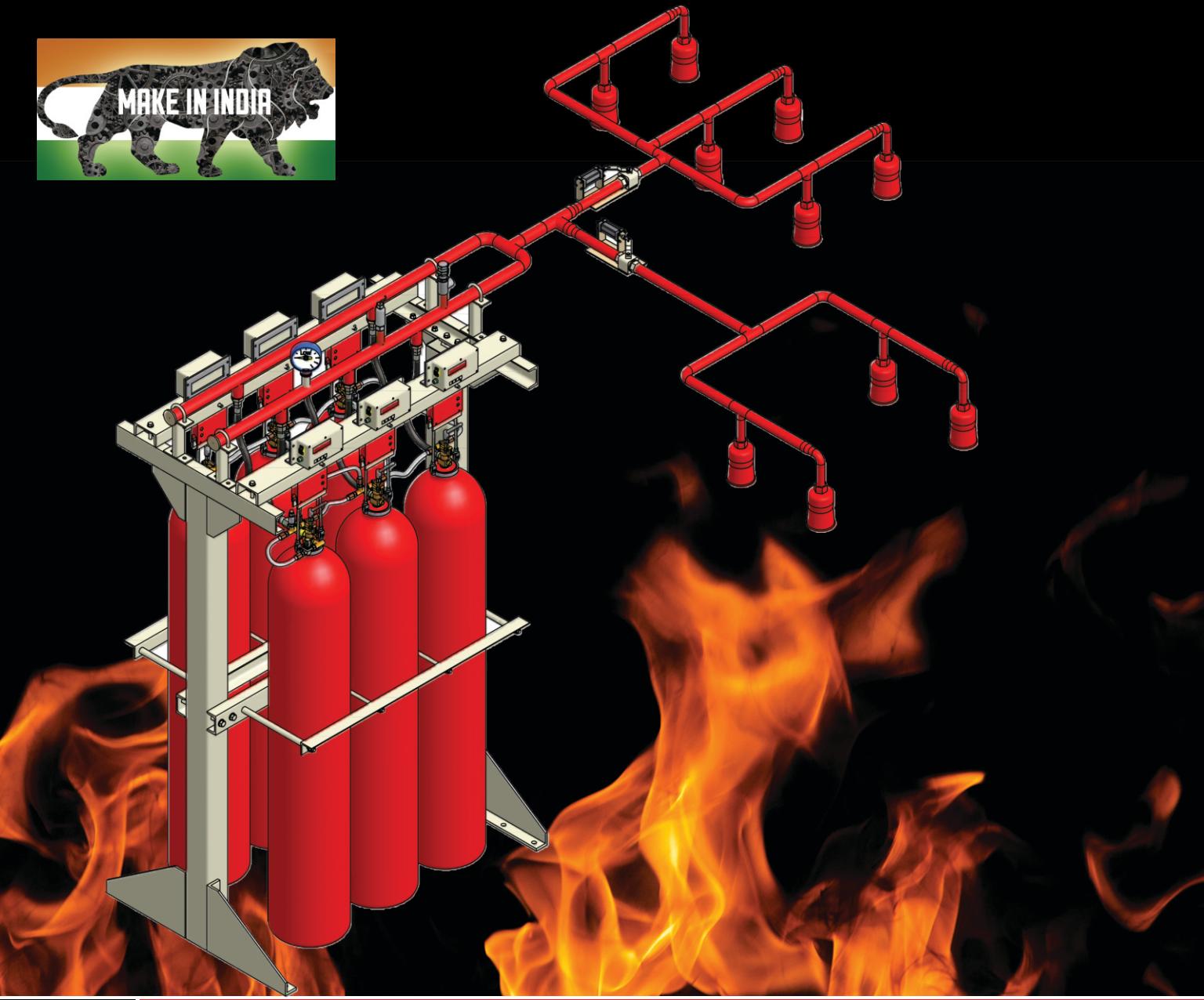




YOUR SAFETY सारथी

SYNERGY

CO2 FIRE EXTINGUISHING SYSTEM



First and Only Indian Company with CO2 Fire Extinguishing System



YOUR SAFETY सारथी

Supply & Installed by:

NFPA INDIA Pvt. Ltd.
NATIONAL FIRE PROTECTION ARMOUR
GOVT. APPROVED CLASS-A LICENCE AGENCY

Manufactured by,
SWASTIK
SYNERGY



COMPANY PROFILE

NFPA INDIA PRIVATE LIMITED (SSEPL) is one of the leading Manufacturer and supplier of Fire Fighting Appliances, Equipment & Systems.

SSEPL's manufacturing and warehousing facility is located at Khopoli near Mumbai and it consists of all the necessary and sophisticated plant & machinery to manufacture automatic fire suppression system. Its Head Office is Located at Santacruz.

SSEPL is approved by CCOE (PESO) for filling and storing of Clean Agent Gases. SSEPL is registered as a MSME Unit and has adopted ISO 9001:2015 and ISO 45001:2018.

SSEPL Specializes in following products

- UL - CO2 Fire Extinguishing System
- UL - Kitchen Fire Extinguishing System
- VDS - Inert Fire Suppression System
- LPCB - SYNERGY Firessense Direct Low Pressure System
- UL - Clean Agent Fire Extinguishing System



COMPANY POLICY

We at Swastik Synergy Engineering strive to deliver fire fighting products and systems to meet and exceed customer satisfaction through Continual Improvement in products, process, manufacturing technology, services and quality management system.

We aim at market leadership with:

1. Satisfied customer.
2. Experienced, Motivated and committed employees and business associates.
3. Maintaining compliance to the national and international standards and regulations in force.
4. Protection and advancement of environment.

Supply & Installed by:



YOUR SAFETY सारथी

INTRODUCTION

CARBON DIOXIDE GAS

Under normal atmospheric temperature and pressures, carbon dioxide exists as a colorless, odorless gas which is about 1.5 times heavier than air. Carbon dioxide will not burn or support combustion and will not sustain life. When confined within a suitable pressure vessel and depending on temperature and pressure conditions, carbon dioxide can exist in any of three stages of matter; solid, liquid and gas.

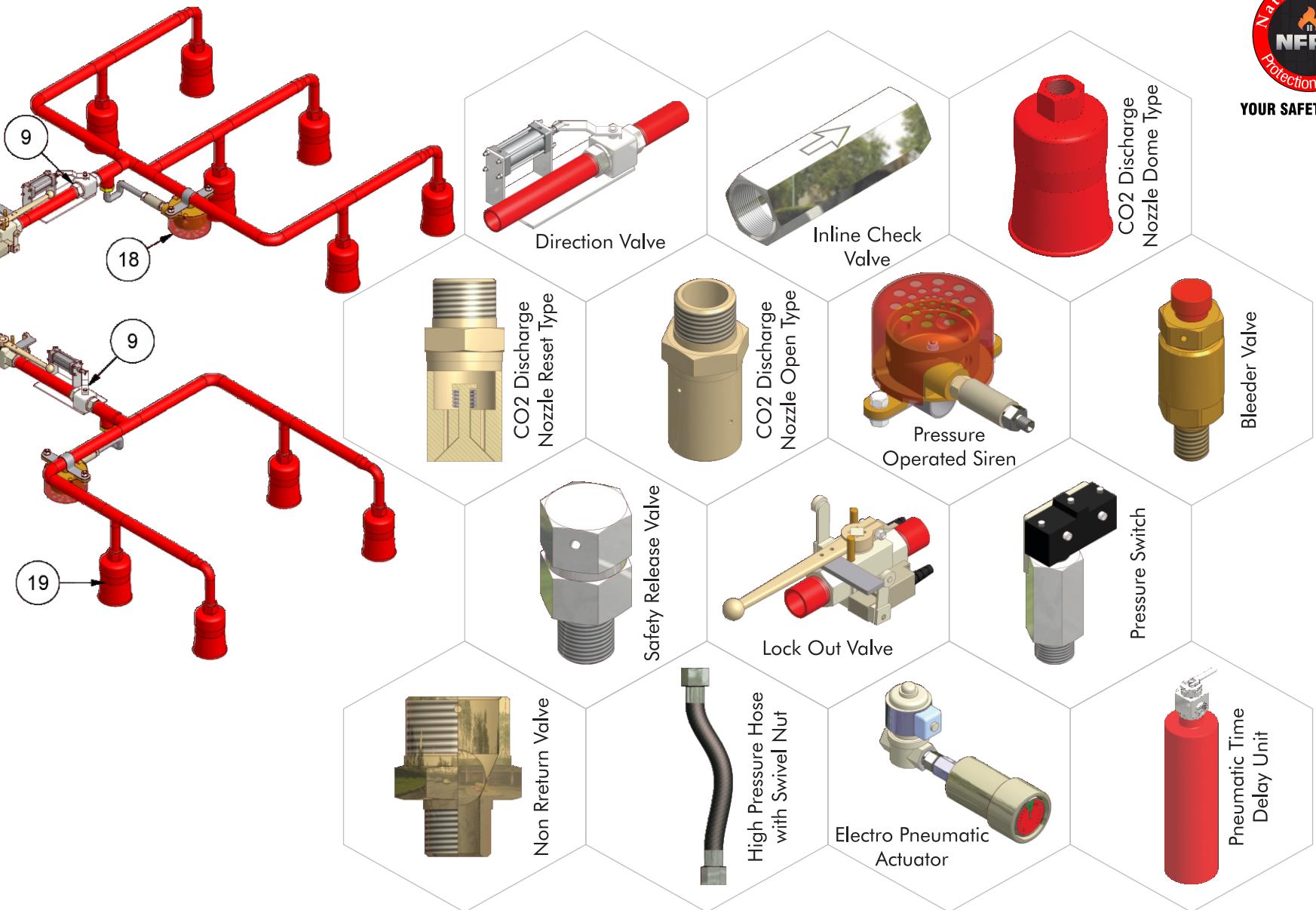
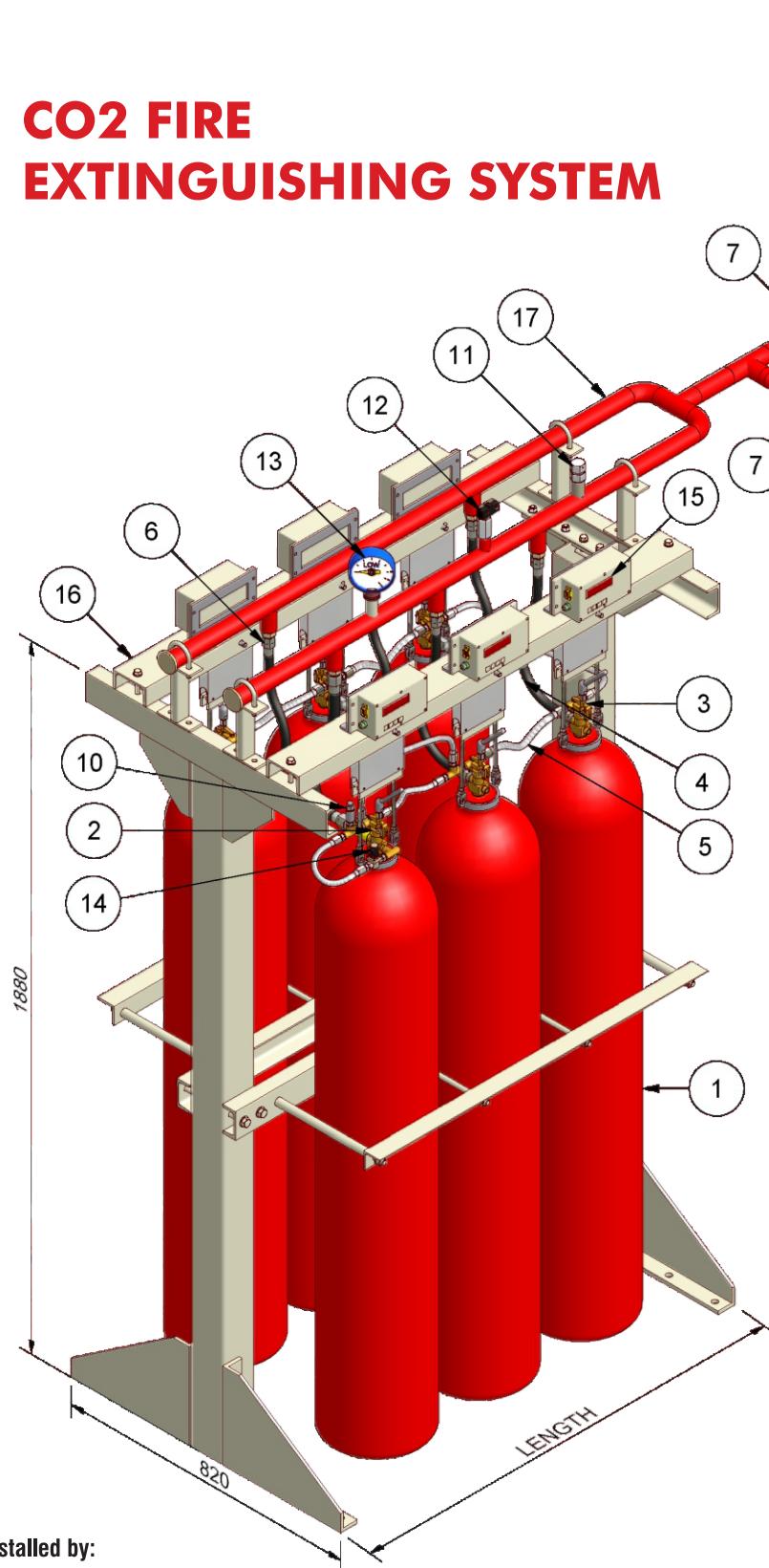
HIGH PRESSURE CARBON DIOXIDE SYSTEM

High pressure CO2 system is a specialized fire extinguishing system designed to maintain the carbon dioxide supply at 21° C and 850 psig in strength alloy steel cylinders. The cylinders contain the CO2 required to protect the largest single hazard. 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 CO2 flow to the hazard through properly sized pipe, terminating in nozzles that apply the CO2. Flow rate is controlled by nozzle orifices as well as pipe sizes. The cylinder master valves are electronically operated and the slave valves are pressure actuated. The master valves can be automatically and/or manually operated.

CO2 EXTINGUISHING SYSTEM MOST IDEAL FOR PROTECTING:

- Paint and varnish manufacturing and processing areas.
- Powder coating and Painting booths.
- Transformers and substations.
- Rolling mills and Turbines.
- False Floors and cable shafts.
- Engine test benches and SHIP Engine Room / compartments.
- Printing machines.

CO₂ FIRE EXTINGUISHING SYSTEM



Sr.No.	Description	Sr.No.	Description
1.	CO ₂ yylinder	11.	Safety Release Valve
2.	Master Valve	12.	Pressure Switch
3.	Slave Valve	13.	Pressure Gauge
4.	Flexible Discharge Hose	14.	Solenoid Valve
5.	Flexible later Connecting Hose	15.	Digital Weight Loss Indicator
6.	No Return Valve	16.	Cylinder Mounting Frame
7.	Inline Check Valve	17.	Manifold
8.	Lock Out Valve	18.	Pressure Operated Siren
9.	Direction Valve	19.	CO ₂ Discharge Nozzle
10.	Bleed Valve	20.	Weight Loss Indicator

Supply & Installed by:

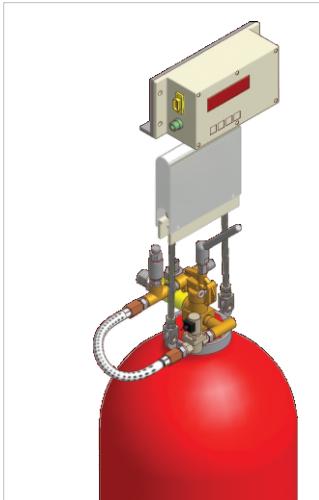


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ONLINE WEIGHT LOSS INDICATOR



DIGITAL WEIGHT LOSS INDICATOR

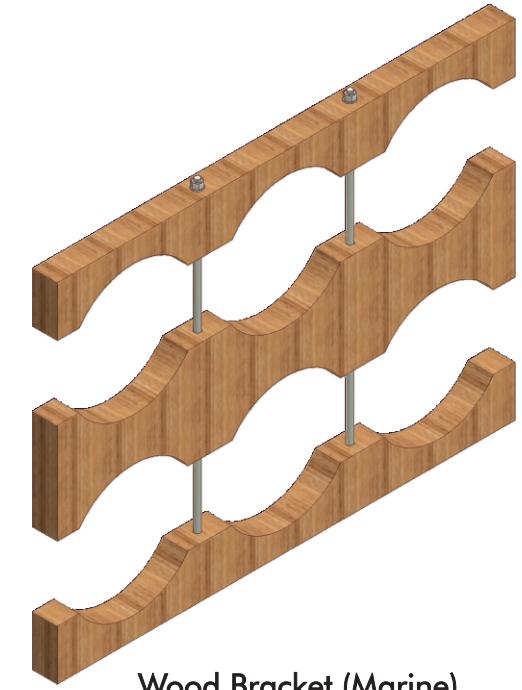
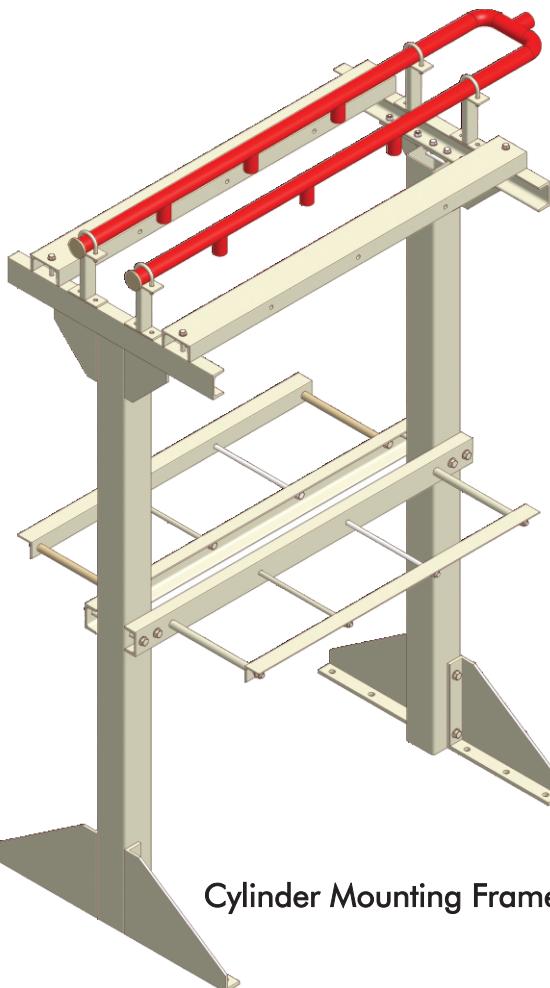
- Displays Actual Weight of Cylinder.
- Displays Weight on day of installation.
- Displays date of installation.
- Display WEIGHT LOSS and Audio Visual Alarm Sound on loss of weight more than 10% (or required by relevant standards) of gas contents.

MECHANICAL WEIGHT LOSS INDICATOR

- Green light remains on indicating full weight.
- On weight loss of more than 10% (or as required relevant standards) of gas contents the balancing weight shall drop down triggering Audio Visual Alarm.
- The Red light turns on indicating loss of weight.



BATTERY FRAME



Wood Bracket (Marine)

VALVES & ACTUATOR



12mm-Valve for
Fire Suppression Systems



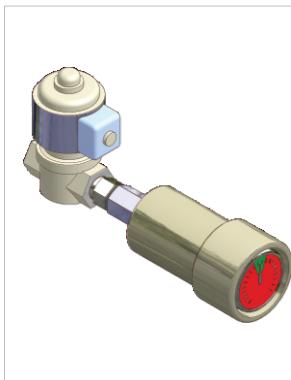
12mm-Solenoid Valve for
Fire Suppression Systems



Pneumatic Valve



Electrical Actuator for Valves



Electro Pneumatic
Actuator



Pneumatic Actuator
for Valves



Pneumatic / Manual
Actuator for Valves

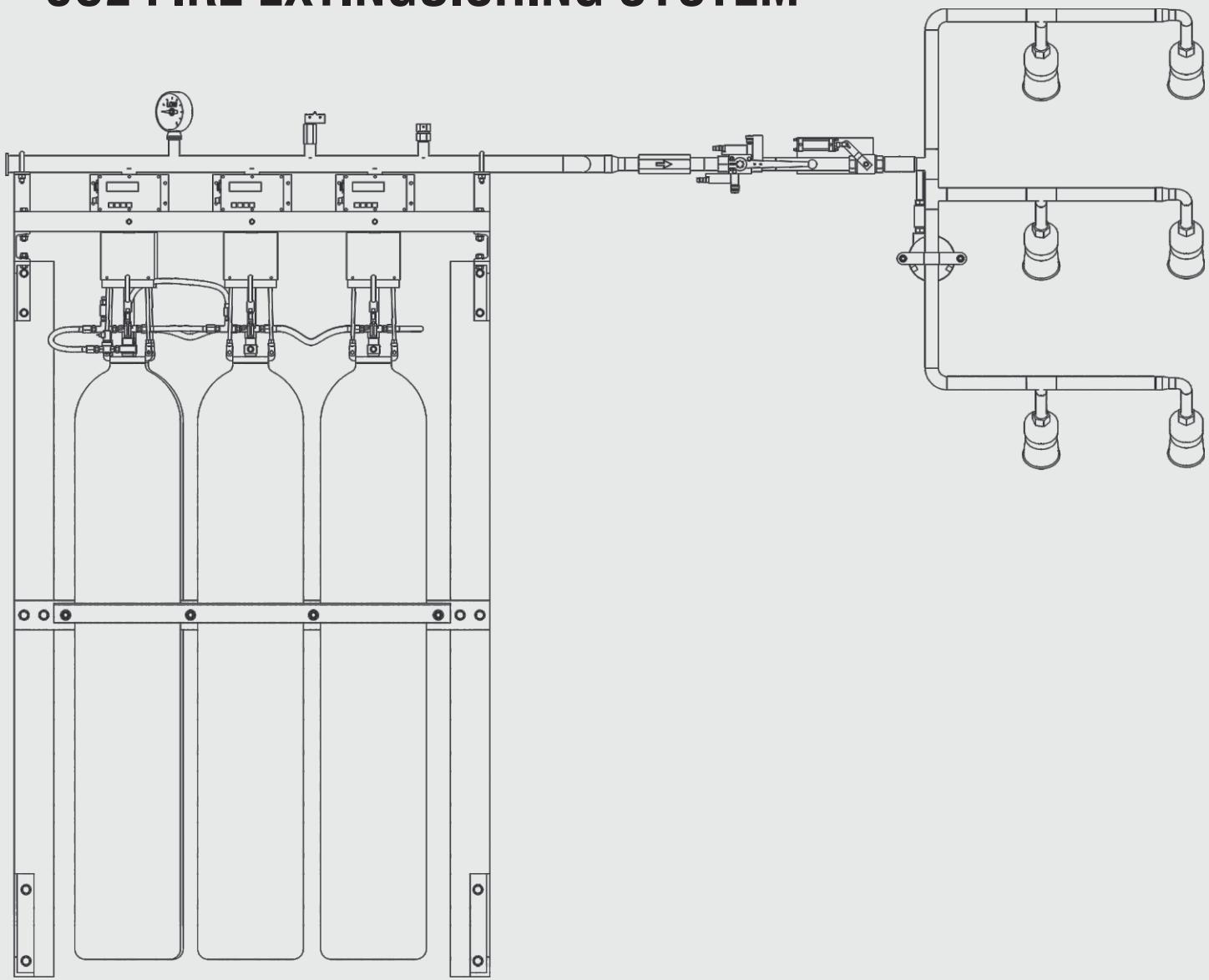


Manual Actuator for Valves

VALVES & ACTUATOR

SYNERGY

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