

CO₂ Fire Suppression System

Fast & Effective Fire Protection



SR-C02

HIGH PRESSURE Fire Suppression System



LEADING THE FIGHT
AGAINST FIRE

Leading the Fight Against Fire

Established in 1974, Steel Recon Industries Sdn Bhd (SRI) is proudly a Malaysian company that offers a comprehensive range of firefighting products, equipment and technology solutions through a vast network of distributors worldwide.

Always at the forefront of Malaysian firefighting advances, SRI's products are certified by international standard boards such as VdS, LPCB, BSI, UL, FM and SAI Global, underlining our commitment to the provision of the most reliable firefighting solutions for local and global needs.

SRI's products are manufactured in our state-of-the-art facilities which allows us to produce quality products along with the flexibility to cater to specific needs and standards. As we progress into the future, the pioneering spirit that propelled SRI's success continues to drive us. We will lead the way with technology and cutting-edge research, backed by local expertise and nearly 50 years of experience, to deliver unrivalled protection to your people and property.



Total Flooding Fire Protection

SRI's high pressure CO₂ fire suppression system is a cost-effective solution ideal for use in unoccupied areas, including total flooding and local application protection.

As a colorless, odorless, electrically non-conductive gas, CO₂ is highly effective at suppressing a wide variety of Class A, B, and C fires.

Our high-pressure CO₂ system discharges CO₂ gas which either floods the protected enclosure or can be directed onto protected equipment.

This reduces the oxygen concentration level to below 15% and thus suppresses the fire.

As CO₂ leaves no residue, this eliminates the need for any post-discharge cleanup and helps reduce business downtime.

- UL Listed
- Tested and trusted
- Fast, effective fire protection for critical assets & processes
- Versatile & economical



Please note:

Always take extra caution when considering a CO₂ fire protection system as protected enclosures are not safe for human occupation. Even small amounts of CO₂ can be harmful or fatal if a person is in the protected area. CO₂ fire suppression systems typically flood the protected space with a 34% concentration of CO₂ and merely a 7.5% concentration is considered to be hazardous.

System Applications

CO₂ fire suppression system have been proven effective in numerous unmanned & valuable applications.

- Commercial and Industrial Fryers
- Dip Tanks
- Electric Generators
- Electrical Panels
- Marine Applications Spray Booths
- Waste Disposal Equipment
- Gas Turbines
- Coal Silos
- Hazardous Material Storage
- Semiconductor Wet Benches
- Computer Room Subfloors
- Unmanned Control Rooms
- Coating Operations
- Wave Solder Machines
- Machining Operations
- Transformer Vaults
- Dust Collectors
- Printing Presses



CO₂ Fire Suppression System



CO₂ System Setup, With Solenoid Actuated Pilot Cylinder

Item	Code No.	Description
1	SPS-CO2-450-KV	45Kg CO ₂ cylinder (Filled)
2	SPS-CO2-002-457MM	½" x 18" Discharge hose with Check valve
3	SPS-CO2-004-300MM	Pilot loop ¼" x 300 mm
4	SPS-CO2-020-SV	Pilot cylinder with Solenoid valve
5	SPS-CO2-006-VP	Vent plug ⅛" BSP
6	SPS-CO2-007-MSV	Safety valve ¾" BSP
7	SPS-CO2-004-457MM	Pilot loop ¼" x 457 mm

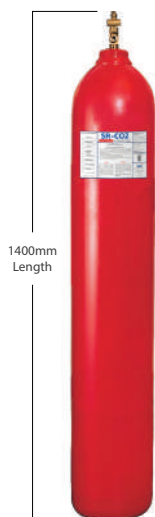


Weight Monitoring Systems

This device is used to automatically monitor the contents of the CO₂ cylinder. When the CO₂ gas falls the indicator on the device will show that it is empty and an optional Micro-switch can be installed to send a signal to a control panel. This is the most effective method of monitoring the CO₂ gas in the cylinders.

Item	Code No.	Description
1	C02015-MS-XXX-NA	Weight Check Device
2	C02013-MS-SWI-NA	Monitor Switch
3	C02016-MS-XXX-NA	Hanging Bracket

CO₂ Fire Suppression System



45kg CO₂ Cyl c/w K. Valve & Label

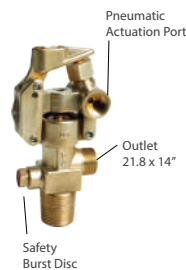
- ◆ Test Pressure : 250 bar / 225 Bar (GB)
- ◆ Empty Weight : 75 kg
- ◆ Finishing : Red
- ◆ CO₂ Capacity : 45 kg
- ◆ Manufacture to : As required
- ◆ Material : Mn Steel, Thread 28.8 x 14" TPI
- ◆ Filling Ratio : 0.667
- ◆ Develop Pressure : 60 bar (1015 psi) @ 20°C

Code No.

SPS-CO2-450-KV

CO₂ K Valve

- ◆ Material : Brass Hpb59-1
- ◆ Test Pressure : 250 Bar
- ◆ Burst Disc pressure : 190 bar
- ◆ Pneumatic actuation pressure : 5 - 15 Bar

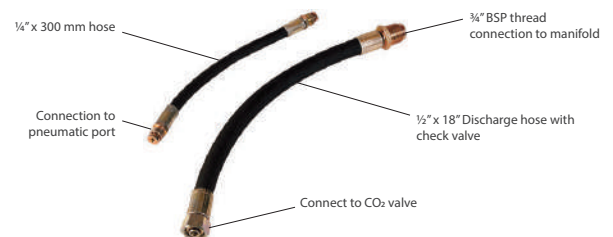


Code No.	Description
SPS-CO2-001-KVLV	CO ₂ K-Valve



Pilot Cylinder Solenoid Actuator

Code No.	Description
SPS-CO2-020-SV	CO ₂ Pilot Cylinder
SPS-N2-020-SV	N ₂ Pilot Cylinder



Discharge Hose & Pilot Loop Hose

- ◆ Specification : SAE 100R1AT
- ◆ Min. Burst Pressure : 8000 psi (1/2"), 11000 psi (1/4")
- ◆ Test Pressure : 3000 psi
- ◆ Max. Bending Degree: 120°

Code No.	Description
SPS-CO2-002-457MM	Discharge Hose c/w check valve
SPS-CO2-004-300MM	Pilot Loop Hose

CO₂ Discharge Nozzles

Discharge nozzle with horn type is used for diffusing CO₂ gas to prevent scattering of burning material.

- ◆ Nozzle material : Brass CZ 121
- ◆ Horn material : Aluminium Alloy



Standard Nozzle

CO₂ nozzles in total flooding system should be arranged in the protected space in a manner to ensure equal distribution of CO₂ gas during a discharge.



Discharge Nozzle with Horn

Size	Code No. Type Standard	Code No. With Horn
1/2" (15 mm)	SPS-CO2-005-DN15	CO2007-LA-015-MS
3/4" (20 mm)	SPS-CO2-005-DN20	CO2007-LA-020-MS
1" (25 mm)	SPS-CO2-005-DN25	CO2007-LA-025-MS



Fire Curtain

Actuated by 24 VDC tripping device. Install on top of louvers or opening.

Code No.	Description
FAS253-FG-XXX-WH	Fire curtain c/w steel cable
FAS254-NO-24V-RD	Box c/w solenoid tripping device
FAS254-NO-TD24	Solenoid Tripping Device TD24

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