





OBJECT FIRE SUPPRESSION SYSTEMS

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FireDETEC® systems are designed according to on standards: European VdS Directive 2093, CEA 4017 clearly indicates the applicable approval certification	and NFPA 2001.Each pa

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ving age clearly indicates the applicable approval certification. In addition, all Rotarex manufacturing sites comply with ISO 9001 quality standards.

 $[\]ensuremath{^{*}}$ Components are certified only when used together in a properly configured installation

THE FIREDETEC® CONCEPT

THE NEW KIND OF FIRE SUPPRESSION SYSTEM THAT INSTALLS DIRECTLY INSIDE INDIVIDUAL HIGH RISK MACHINERY OR EQUIPMENT — CLOSER TO WHERE A FIRE COULD START.

IDEAL FOR:

SUPPLEMENTAL PROTECTION FOR CRITICAL HIGH-RISK EQUIPMENT:



ELECTRICAL CIRCUITRY

- Electrical Cabinets
- Control Boxes
- Recharging stations
- Switch panels
- Relay stations



MACHINERY

- CNC machines
- Construction machinery
- Agricultural machines



OILS, CHEMICALS AND OPEN FLAME

- Fume Cabinets
- Paint & Chemical storage
- Petroleum storage tanks
- Hydraulic circuits



COOKING AREAS

- Fryers
- Grills
- Mobile kitchens



VEHICLE ENGINE

- Buses
- Trucks
- Cars
- Trams
- Trains
- Military heavy equipment
- Agricultural



- Diesel generators
- Wind turbines
- Construction cranes
- Pumping stations
- Elevators & escalators
- Battery charging stations
- Forklifts
- Medical laboratory equipment
- Test/production equipment
- Cable ducts
- Transmitters









PROTECTS THE GAP BETWEEN CONVENTIONAL FIRE PROTECTION SYSTEMS





24/7 PROTECTION:

Automatically detects and suppresses fires at the source.



PLUG & PLAY SIMPLICITY:

Systems and kits are pre-configured to European VdS or NFPA 2001 specifications with plug & play simplicity. No complex electronics.



FAST AND EFFECTIVE:

Rapid reaction as soon as a fire starts, before it can damage equipment and before the sprinkler system activates. Safe against malfunction.



HIGHLY ECONOMICAL:

Outstanding cost-performance ratio.

PRE-ENGINEERED SYSTEMS





P. 016

P. 024



CNC MACHINERY SYSTEMS For all mechanical enclosures

P. 022



FUME CABINET SYSTEMSFor all chemical handling enclosures



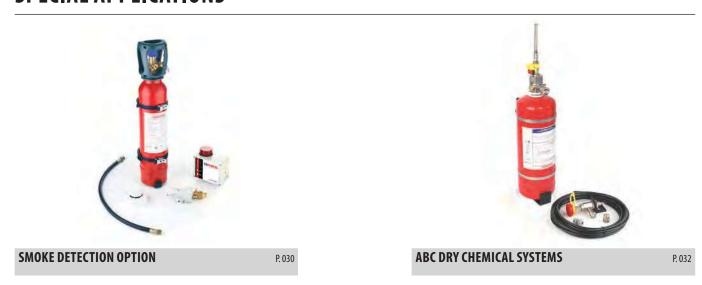
COMMERCIAL KITCHEN SYSTEMS For small and medium - sized Kitchens

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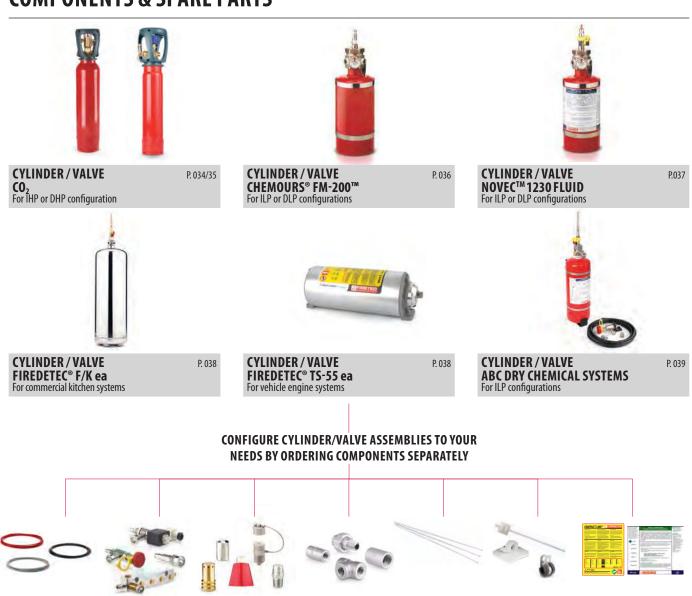


ROTAREX

SPECIAL APPLICATIONS



COMPONENTS & SPARE PARTS



^{*}FM-200° is a trademark of Chemours, used under license. *3M and NOVEC 1230 are trademark of The 3M Company.



FIREDETEC® SENSOR TUBING & ACCESSORIES



END OF LINE DEVICES & ACTUATORS



DISCHARGE SYSTEM & ACCESSORIES



DIMES



DIMES ACCESSORIES P. 049

OPTIONAL EQUIPMENT



INSTALLATION AND MAINTENANCE TOOLS



SPARE PARTS



THE SENSOR TUBE TECHNOLOGY

Rotarex FireDETEC® systems use a proprietary continuous linear sensor tube that reliably detects and actuates release of the extinguishing agent using pneumatic technology. It is more flexible, space efficient and cost effective versus alternative mechanical or electronic systems. The revolutionary pneumatic design enables cost-effective protection of individual high-risk areas like electrical and mechanical equipment that were previously not practical to protect.

1. Installation closer to the source

Because the sensor tubing is flexible, it can easily be installed directly inside machines and enclosures – directly among circuitry and mechanics.

When in service, the tubing is pressurized with dry nitrogen under 240 psi / 16 bar of pressure. The dynamics of pressurization make the tubing more reactive to heat.



2. Early fire detection

The heat that immediately precedes or accompanies a fire causes the pressurized sensor tube to burst at the hottest spot.

3. Instant Suppression

The sudden tube depressurization actuates the special valve and floods the enclosed area with extinguishing agent. The fire is quickly suppressed just moments after it began ... minimizing damage and repair downtime.



Exceptionally durable:

- 5 + year service lifetime
- Low porosity
- Can withstand high cycle temperatures
- Highly UV resistant





THE SENSOR TUBE TECHNOLOGY

3 TYPES OF TUBING FOR BEST PERFORMANCE

	All-Purpose Tubing	Special Applications	Kitchen Systems
APPLICATION:	For all applications	Multi-layer construction is more resistant to temperature extremes, chemical agents and UV	Specifically designed to withstand heat and grease conditions above kitchen cooking areas
IDEAL FOR:	- Electrical Cabinets - Relay boxes - CNC Machines - Construction Machinery - Agricultural Machines	 Laboratory fume hoods Chemical storage areas Petroleum storage tanks Hydraulic equipment Vehicle engines 	- Professional Kitchens - Zones at risk for grease fire
Burst Temperature	110° C	110° C	175° C
Color	Red RAL 3000	Black RAL 9005	Grey RAL 7042
Min. Bend Radius	100 mm	150 mm	150 mm
Working temp	-30°C to 80°C	-30°C to 80°C	-30°C to 90°C

DIRECT AND INDIRECT CONFIGURATIONS



DIRECT SYSTEM

Extinguishing agent is discharged through the burst hole in the sensor tube.

Used for:

Very small enclosed space and hard to reach areas $< 2 \text{m}^3$ (under certain conditions)

Advantages:

- More economical
- Easiest-to-install
- Ideal for multiple separated units

INDIRECT SYSTEM

Extinguishing agent is discharged through a separate delivery nozzle.

Used for:

All Enclosed spaces

Advantages:

- Most effective fire suppression
- Covers a large area
- Allows quicker discharge of extinguishing agent
- Works with all suppression agents
- Manual actuation possible





Improve productivity and safety with a Digital Measurement System - available as an option for all CO_2 indirect systems.

SIGNIFICANT ADVANTAGES:

- Certainty that your system is charged and ready: Continually monitors cylinder pressure and system readiness. In case of a leak, the system can send an audio and visual warning signal.
- Eliminates the need to periodically dismount and weigh cylinders to verify fill levels.
- Electronic circuitry permits attachment of peripheral electronic devices



DIMES valves contain a micro chip that permits calibration of the system to the cylinder of valves. A calibration unit is required (see page 49).



DIMES ELECTRONICALLY MEASURES THE CO_{2} DENSITY IN THE CYLINDER

The capacitance between two electrodes changes as the CO_2 density changes. This generates a digital signal that can be transmitted to an alarm box, digital readout device, or telemetrically to a remote location.



TECHNICAL CHARACTERISTICS OF DIMES - ELECTRONIC

shut-down signal

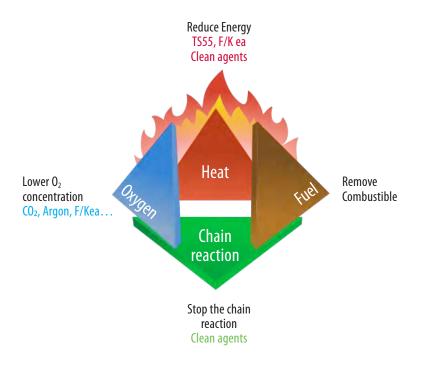
Supply voltage	6 to 30 VDC
Temperature range	- 20°C to + 60°C
Alarm level	80 % (configurable)
Max. switching power	20 W
Max. contact rating	0,4 A
Max. switching voltage	50 V
Sealed housing	IP 67
Max. dissipation rating	6 mA
Max. dissipation power	12 VDC 24 VDC
	72 mW 144 mW



Calibration unit

Calibrates the valve to the cylinder using a built-in computer chip

EXTINGUISHING AGENTS



FIRE CLASSES & EXTINGUISHING AGENT CHOICE

Europe	Australia	USA	Combustible	CO ₂	Inert Gas	FM-200™ HFC-227	NOVEC™1230	TS55	F/K ea	ABC dry chemical
Class A	Class A	Class A	Fires involving ordinary combustible (wood, paper, cloth, trash, plastics)	±	±	±	±	✓	✓	✓
Class B	Class B	Class D	Fires involving flammable liquids or liquefiable solids (petrol, oil, paint)	✓	✓	✓	✓	×	×	✓
Class C	Class C	Class B	Fires involving flammable gases (natural gas, hydrogen, propane, butane)	√	✓	√	✓	×	×	✓
Class D	Class D	Class D	Fires involving combustible metals (sodium, magnesium, and potassium)	×	×	×	×	×	×	×
	Class E	Class C	Fires involving electrical devices, and energized electrical equipment (anything that is plugged in)	✓	✓	✓	✓	×	×	✓
Class F	Class F	Class K	Fires involving commercial cooking fats and oils	±	±	±	±	×	✓	✓
			Fire involving vehicles (oils, plastics, hydrocarbon,)	±	±	±	±	✓	±	✓



DIRECTIONAL VALVE TECHNOLOGY FOR CO₂ SYSTEMS

The efficient and economical way to protect multiple zones with the same cylinder/valve. FireDETEC Directional Valves allow you to isolate separate protection zones within a single system - with absolutely no loss of efficacy.

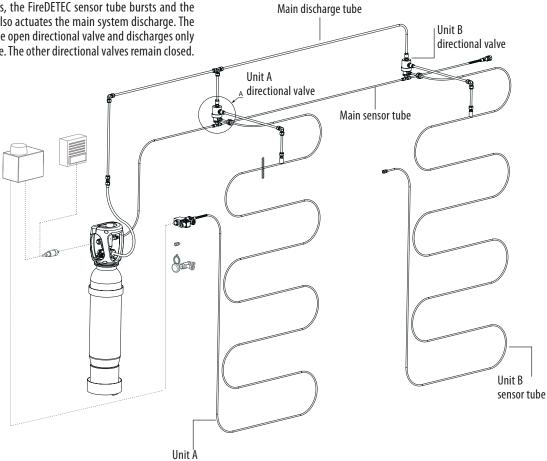




HOW IT WORKS:

EACH PROTECTION ZONE IS EQUIPPED WITH A DIRECTIONAL VALVE.

The directional valve is closed when the system is armed. In the event of a fire in one of the local zones, the FireDETEC sensor tube bursts and the directional valve opens. This also actuates the main system discharge. The discharge is routed through the open directional valve and discharges only in the zone where there is a fire. The other directional valves remain closed.



sensor tube

ELECTRICAL CABINET SYSTEMS - INDIRECT

A complete preengineered system for electrical cabinets and other enclosed areas with electric circuitry

Everything you need together in one box







MINIMIZES RISK TO VITAL EQUIPMENT

- #1 Cause of Industrial Fires*
- 75% of total-loss fires start as an electrical fire*
- Helps minimize damage to vital electrical equipment
- Minimizes work stoppage during repairs/cleanup
- Prevents extensive cleanup if the sprinkler system discharges

KEY FEATURES

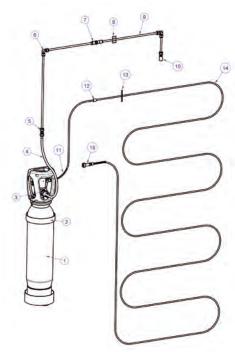
- A complete, ready-to-install system all in one box
- Available with CO_2 or HFC-227ea extinguishing agent
- Available in multiple cylinder sizes for small, medium or large enclosures
- CO₂ systems available with choice of filled or unfilled cylinders
- HFC-227ea systems available filled only. Unfilled on request





COMPLETE CO₂ SYSTEMS





POS.	QTY.	CODE	DESCRIPTION 5 KG.
1	1	B07024001	IHP Cylinder / valve assembly
2	1	024900390	Cylinder bracket
3	1	024100013	Gasket
4	1	B06920006	Rubber hose
5	2	B07835026	Tube fitting - straight
6	2	B07835028	Tube fitting - Elbow
7	1	B07835037	Cross panel-fitting
8	4	B07860006	Pipe bracket (Ø 8mm)
9	2	022700599	Stainless steel tubing (1m)
10	1	026200116	Nozzle
11	1	024920013	Protection Spring top
12	1	B07830005	Cross panel-fitting
13	20	B07860004	Binding ties
14	1	B07800015	FireDETEC® Tube red (10m)
15	1	B07810014	End of line gauge

Contents may vary according to cylinder sizes

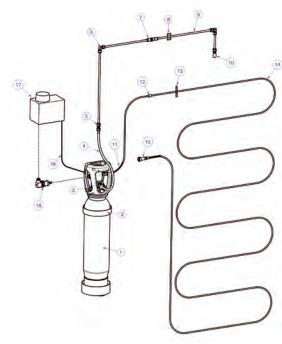
	COMPLETE	CO₂ SYSTEMS
Product code unfilled	B07504000	B07504004
Product code filled	B07504500	B07504504
Agent capacity	5 Kg.	10 Kg. Ø204mm
Number of nozzles	1	2
Cylinder volume	6.7 liters	13.4 liters
Cylinder approval	π	π
Cyl. / valve weight (empty)	10 Kg.	21 Kg.
Operating Temperature	-20°C to 60°C	-20°C to 60°C
Working pressure	60 bar at 20°C	60 bar at 20°C
Siphon tube	Yes	Yes
Sensor tubing color	Red	Red

SYSTEM CONTENTS - CO₂ WITH DIMES









POS.	QTY.	CODE	DESCRIPTION 5 KG.
1	1	B07025001	IHP Cylinder / valve assembly
2	1	024900390	Cylinder bracket
3	1	024100013	Gasket
4	1	B06920006	Rubber hose
5	1	B07835026	Tube fitting - straight
6	2	B07835028	Tube fitting - Elbow
7	1	B07835037	Cross panel-fitting
8	4	B07860006	Pipe bracket (Ø 8mm)
9	2	022700599	Stainless steel tubing (1m)
10	1	026200116	Nozzle
11	1	024920013	Protection Spring top
12	1	B07830005	Cross panel-fitting
13	20	B07860004	Binding ties
14	1	B07800015	FireDETEC® Tube red (10m)
15	1	B07810014	End of line gauge
16	1	029900088	Connector + cable for DIMES
17	1	B07850201	Control box
18	1	028255048	Pressure switch

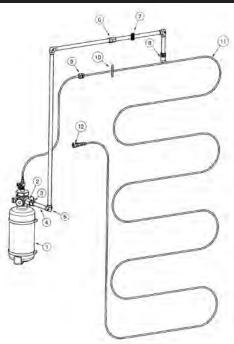
Contents may vary according to cylinder sizes

	COMPLETE CO ₂ SYSTEM with DIMES		
Product code unfilled	B07505000	B07505004	
Product code filled	B07505500	B07505504	
Agent capacity	5 Kg.	10 Kg. Ø204mm	
Number of nozzles	1	2	
Cylinder volume	6.7 liters	13.4 liters	
Cylinder approval	π	π	
Cyl. / valve weight (empty)	10 Kg.	21 Kg.	
Operating Temperature	-20°C to 60°C	-20°C to 60°C	
Working pressure	60 bar at 20°C	60 bar at 20°C	
Siphon tube	Yes	Yes	
Sensor tubing color	Red	Red	



HFC-227 ea SYSTEMS





POS.	QTY.	CODE	DESCRIPTION 7 LB. 1 NOZZLE
1	1	B07014513	ILP cylinder / valve assembly
2	1	B07833003	Union fitting
3	1	B07833004	Reducing fitting
4	4	022700611	Steel pipe 3/6" sch 40 (1m)
5	3	B07833005	Elbow fitting
6	4	B07833006	Straight fitting
7	4	B07860008	Pipe bracket
8	1	026200104	Nozzle
9	1	B07830005	Cross panel-fitting
10	20	B07860004	Binding ties
11	1	B07800015	FireDETEC® Tube red (10m)
12	1	B07810026	End of line adaptor

Contents may vary according to cylinder sizes

			HFC 227 ea SYSTEMS		
Product code unfilled	On request	On request	On request	On request	On request
Product code filled	B07506003	B07506004	B07506006	B07506005	B07506007
Agent capacity	1,36 Kg. / 3 lbs.	3,18 Kg. / 7 lbs.	3,18 Kg. / 7 lbs.	6,35 Kg. /14 lbs.	6,35 Kg. /14 lbs.
Number of nozzles	1	1	2	1	2
Cylinder volume	75 in ³	174 in ³	174 in ³	350 in ³	350 in ³
Cylinder approval	CE	CE	CE	CE	CE
Operating Temperature	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
Working pressure	16 bar at 20°C	16 bar at 20°C	16 bar at 20°C	16 bar at 20°C	16 bar at 20°C
Siphon tube	Yes	Yes	Yes	Yes	Yes
Sensor tubing color	Red	Red	Red	Red	Red

ELECTRICAL CABINET SYSTEMS - DIRECT

A complete preengineered system for small electrical cabinets (<2m³) and other enclosed areas with electric circuitry





MINIMIZES RISK TO VITAL EQUIPMENT

- #1 Cause of Industrial Fires*
- 75% of total-loss fires start as an electrical fire*
- Helps minimize damage to vital electrical equipment
- Minimizes work stoppage during repairs/cleanup
- Prevents extensive cleanup if the sprinkler system discharges

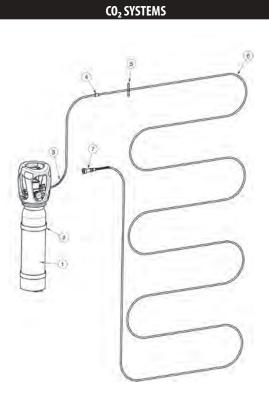
KEY FEATURES

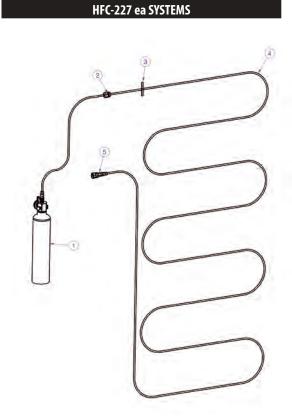
- A complete, ready-to-install system all in one box Available with ${\rm CO_2}$ or HFC-227ea extinguishing agent
- Available in multiple cylinder sizes for small or medium enclosures
- Systems available with choice of filled or unfilled cylinders
- CE approved cylinders only



SYSTEM CONTENTS







POS.	QTY.	CODE	DESCRIPTION 2 KG.
1	1	B07034000	DHP cylinder / valve assembly (not filled)
2	1	024900399	Cylinder bracket
3	1	024920013	Protection spring top
4	1	B07830005	Cross panel-fiting
5	20	B07860004	Binding ties
6	1	B07800015	FireDETEC® tube red (10 m)
7	1	B07810014	End of line gauge

Contents may vary according to cylinder sizes

POS.	QTY.	CODE	DESCRIPTION 3 LB. CE
1	1	B07004004	DLP cylinder/valve assembly (not filled) with bracket
2	1	B07830005	Cross-panel fitting
3	20	B07860005	Binding ties
4	1	B07800015	FireDETEC® sensor tubing red (10m)
5	1	B07810026	End-of-line gauge

Contents may vary according to cylinder sizes

	CO ₂ SY	STEMS
Product code unfilled	B07502001	B07502003
Product code filled	B07502501	B07502503
Agent capacity	2 Kg.	5 Kg.
Number of nozzles	0	0
Cylinder volume	2,7 L	6,7 L
Cylinder approval	π	π
Cyl. / valve weight (empty)	6,8 Kg.	10 Kg.
Operating Temperature	-20°C to 60°C	-20°C to 60°C
Working pressure	60 bar at 20°C	60 bar at 20°C
Siphon tube	Yes	Yes
Sensor tubing color	Red	Red

HFC-227 ea SYSTEMS		
B07507004	B07507005	
B07507006	B07507007	
1,36 Kg. /3 lbs.	3,18 Kg. / 7 lbs.	
0	0	
75 in ³	174 in ³	
CE	CE	
3,46 Kg. / 7,62 lbs.	6,35 Kg. / 14 lbs.	
-20°C to 60°C	-20°C to 60°C	
16 bar at 20°C	16 bar at 20°C	
Yes	Yes	
Red	Red	



CNC MACHINE SYSTEMS

A complete preengineered system for CNC Machines and other enclosed areas with mechanical or electrical components







MINIMIZES RISK TO VITAL EQUIPMENT

- 66% of industrial fires begin on the shop floor*
- EU Machinery Directive 2006 42EC requires certain machines to be fitted with a built-in fire extinguishing system
- Helps minimize damage to vital production equipment
- Minimizes work stoppage during repairs/cleanup
- Prevents extensive cleanup if the sprinkler system discharges

KEY FEATURES

- A complete, ready-to-install system all in one box
- Available with CO₂ extinguishing agent
- Available in multiple cylinder sizes for small or medium enclosures
- CO₂ systems available with choice of filled or unfilled cylinders
- Manual actuator included
- Protection spring included to protect sensor tubing from shocks and hot metal chips

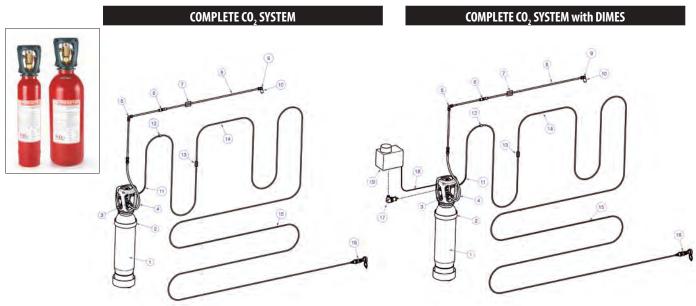


Fume Hood fires:

- Coolant malfunction
- Tool breakage
- High friction
- Static electricity
- Combustion of oil residues
- Poor maintenance
- Operator error







POS.	QTY.	CODE	DESCRIPTION 5 KG.
1	1	B07024001	IHP cylinder/valve assembly
2	1	024900390	Cylinder bracket
3	1	024100013	Gasket
4	1	B06920006	Rubber hose
5	1	B07835028	Double ring fitting - elbow 8mm
6	1	B07835037	Double ring fitting - Cross-panel straight
7	6	B07860006	Pipe bracket 8mm
8	3	022700599	8mm Stainless steel tubing (1 m)
9	1	B07835036	Double ring fitting - elbow G¼" - 8mm
10	1	026200116	Nozzle
11	1	024920013	Protection spring top
12	1	B07830005	Cross-panel fitting
13	20	B07860002	Screwed clips for sensor tube attachment
14	1	B07800015	FireDETEC® Tube red (10m)
15	1	B07850030	Protection spring for sensor tubing
16	1	B04420115	Manual release device

Contents may vary according to cylinder sizes

POS.	QTY.	CODE	DESCRIPTION 5 KG.
1	1	B07025001	IHP cylinder/valve assembly
2	1	024900390	Cylinder bracket
3	1	024100013	Gasket
4	1	B06920006	Rubber hose
5	1	B07835028	Double ring fitting - elbow 8mm
6	1	B07835037	Double ring fitting - Cross-panel straight
7	6	B07860006	Pipe bracket 8mm
8	3	022700599	8mm Stainless steel tubing (1 m)
9	1	B07835036	Double ring fitting - elbow G¼" - 8mm
10	1	026200116	Nozzle
11	1	024920013	Protection spring top
12	1	B07830005	Cross-panel fitting
13	20	B07860002	Screwed clips for sensor tube attachment
14	1	B07800015	FireDETEC® sensor tubing red (10m)
15	1	B07850030	Protection spring for sensor tubing (5,8m)
16	1	B04420115	Manual release device
17	1	028255048	Pressure Switch
18	1	029900088	Connector + Cable for DIMES
19	1	B07850201	DIMES Control Box

Contents may vary according to cylinder sizes

	COMPLETE CO ₂ SYSTEM		
Product code unfilled	B07504002	B07504003	
Product code filled	B07504502	B07504503	
Agent capacity	5 Kg.	10 Kg. Ø204mm	
Number of nozzles	1	2	
Cylinder volume	6.7 liters	13.4 liters	
Cylinder approval	π	π	
Cyl. / valve weight (empty)	10 Kg.	21 Kg.	
Operating Temperature	-20°C to 60°C	-20°C to 60°C	
Working pressure	60 bar at 20°C	60 bar at 20°C	
Siphon tube	Yes	Yes	
Sensor tubing color	Red	Red	

COMPLETE CO₂ SYSTEM with DIMES		
B07505002	B07505003	
B07505502	B07505503	
5 Kg.	10 Kg. Ø204mm	
1	2	
6.7 liters	13.4 liters	
π	π	
10 Kg.	21 Kg.	
-20°C to 60°C	-20°C to 60°C	
60 bar at 20°C	60 bar at 20°C	
Yes	Yes	
Red	Red	



FUME CABINET SYSTEMS

A complete preengineered system for Fume Cabinets and other enclosed chemical storage areas.







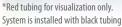
MINIMIZES RISK TO VITAL EQUIPMENT

- High incidence of fire in lab environments due to exposure of chemicals to open flame
- Extraction fan draws flames into hood where they can ignite other chemical residues
- Helps prevent technician injury
- Helps minimize damage to vital laboratory equipment
- Minimizes lab stoppage during repairs/cleanup
- Prevents extensive cleanup if the sprinkler system discharges

KEY FEATURES

- A complete, ready-to-install system all in one box
- Available with CO₂ extinguishing agent
- Available in multiple cylinder sizes for small or medium enclosures
- Manual actuator included
- Protection spring included to protect sensor tubing from shocks and hot metal chips





Key causes of Laboratory Fume Hood fires:

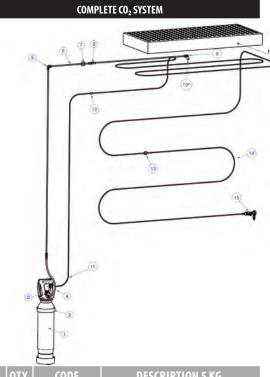
- Open Flame
- Flammable chemicals
- Technican error
- Combustion of chemical residues in extraction hood



SYSTEM CONTENTS







POS.	QTY.	CODE	DESCRIPTION 5 KG.
1	1	B07024001	IHP cylinder/valve assembly
2	1	024900390	Cylinder bracket
3	1	024100013	Gasket
4	1	B06920006	Rubber Hose
5	1	B07835028	Double ring fitting - elbow 8mm
6	1	B07835037	Double ring fitting - Cross-panel straight
7	6	B07860006	Pipe bracket 8mm
8	3	022700599	8mm Stainless steel tubing (1 m)
9	1	B07835036	Double ring fitting - elbow G1/4" - 8mm
10	1	026200116	Nozzle
11	1	024920013	Protection spring top
12	1	B07830005	Cross-panel fitting
13	20	B07860005	Self-adhesive binding ties
14	1	B07800202	FireDETEC® sensor tubing black (10m)
15	1	B04420115	Manual release device

Contents may vary according to cylinder sizes

1 (5)	0 0		P	Ho
			10-)	
17		(13)		(14)
				(6)
16				
18 3				
	[2]			
POS. QTY.	CODE	DESC	CRIPTION 5	KG.

COMPLETE CO₂ SYSTEM with DIMES

POS.	QTY.	CODE	DESCRIPTION 5 KG.
1	1	B07025001	IHP cylinder/valve assembly - DIMES
2	1	024900390	Cylinder bracket
3	1	024100013	Gasket
4	1	B06920006	Rubber Hose
5	1	B07835028	Double ring fitting - elbow 8mm
6	1	B07835037	Double ring fitting - Cross-panel straight
7	6	B07860006	Pipe bracket 8mm
8	3	022700599	8mm Stainless steel tubing (1 m)
9	1	B07835036	Double ring fitting - elbow G¼" - 8mm
10	1	026200116	Nozzle
11	1	024920013	Protection spring top
12	1	B07830005	Cross-panel fitting
13	20	B07860005	Self-adhesive binding ties
14	1	B07800202	FireDETEC® sensor tubing black (10m)
15	1	B04420115	Manual release device
16	1	029900088	Connector + Cable for DIMES
17	1	B07850201	DIMES Control Box
18	1	028255048	Pressure Switch

Contents may vary according to cylinder sizes

	COMPLETE CO₂ SYSTEM		
Product code unfilled	B07504001	B07504005	
Product code filled	B07504501	B07504505	
Agent capacity	5 Kg.	10 Kg. Ø204 mm	
Number of nozzles	1	2	
Cylinder volume	6,7 L	13,4 L	
Cylinder approval	π	π	
Cyl. / valve weight (empty)	10 Kg.	21 Kg.	
Operating Temperature	-20°C to 60°C	-20°C to 60°C	
Working pressure	60 bar at 20°C	60 bar at 20°C	
Siphon tube	Yes	Yes	
Sensor tubing color	Black	Black	

COMPLETE CO ₂ SYSTEM with DIMES			
B07505001	B07505005		
B07505501	B07505505		
5 Kg.	10 Kg. Ø204 mm		
1	2		
6,7 L	13,4 L		
π	π		
10 Kg.	21 Kg.		
-20°C to 60°C	-20°C to 60°C		
60 bar at 20°C	60 bar at 20°C		
Yes	Yes		
Black	Black		

COMMERCIAL KITCHEN SYSTEMS

A complete pre-engineered system for commercial kitchens and other areas at risk for grease-based fires

Protects cooking areas with 2 protection zones + extraction hood











MINIMIZES RISK TO VITAL EQUIPMENT

- High incidence of fire in grill and fryer areas
- Extraction fan draws flames into hood where they can ignite other oily residues
- Helps prevent personnel injury
- Helps minimize damage to vital cooking equipment and surrounding areas
- Minimizes service stoppage during repairs/ cleanup and loss of customer goodwill

KEY FEATURES

- A complete, ready-to-install system all in one box
- Available with liquid-based FireDETEC®
 F/K extinguishing agent
- Manual actuator included
- Supplied with robust grey FireDETEC® sensor tubing to withstand higher ambient temperatures
- Also available as a partial system without discharge tubes and fittings
- Choice of systems with manual actuator or with new piston block manual actuator (not LPCB approved)
- Kitchen systems cylinders are standardly delivered unfilled. Systems delivered with F/K extinguishing agent



LPCB Certified and Listed for Fixed Fire Extinguishing Systems for Catering Equipment. Tested for quality, Safety and Performance according to LPS 1223, Issue 2.3. Applies to B07503000 and B07503001.

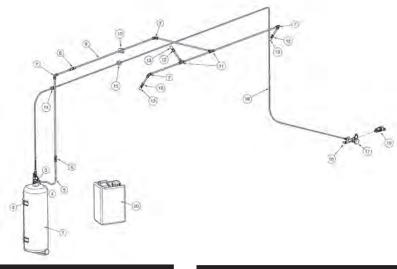
Key risk-areas for Kitchen fires:

- Grill
- Deep fat fryer
- Extraction hood



COMMERCIAL KITCHEN SYSTEM





	COMPLETE KITCHEN SYSTEM					
POS.	QTY.	CODE	DESCRIPTION			
1	1	Varies	ILP cylinder/valve assembly (not filled)			
2	1	024900401	Cylinder bracket			
3	1	024100037	Steel joint			
4	1	B07835039	Double ring fitting - straight R¼" - 8mm			
5	1	022920040	Flexible stainless steel hose			
6	1	B07835027	Double-ring fitting -straight 8mm			
7	4	B07835028	Double ring fitting - elbow 8mm			
8	1	B07835037	Double ring fitting - Cross-panel straight			
9	6	022700599	8mm Stainless steel tubing (1 m)			
10	10	B07860006	Pipe bracket 8mm			
11	2	B07835029	Double ring fitting - tee - 8mm			
12	3	B07835038	Double ring adapter - 8mm - R¼"			
13	3	026200117	Nozzle			
14	1	B07830005	Cross-panel fitting			
15	20	B07860002	Screwed clips for sensor tube attachment			
16	1	B07800303	FireDETEC® sensor tubing grey (10m)			
17	1	varies	Manual actuator			
18	1	024900414	Wall bracket (for LPCB system)			
19	1	028255048	Pressure switch			
20	1	020080157	9L canister of FireDETEC® F/K agent			
21	1	028000279	Set of labels			

PAR	PARTIAL KITCHEN SYSTEM (excluding discharge tubes and fittings)				
POS.	QTY.	CODE	DESCRIPTION		
1	1	Varies	ILP cylinder/valve assembly (not filled)		
2	1	024900401	Cylinder bracket		
3	1	024100037	Steel joint		
4	1	B07835039	Double ring fitting - straight R¼" - 8mm		
5	1	022920040	Flexible stainless steel hose		
13	3	026200117	Nozzle		
14	1	B07830005	Cross-panel fitting		
15	20	B07860002	Screwed clips for sensor tube attachment		
16	1	B07800303	FireDETEC® sensor tubing grey (10m)		
17	1	varies	Manual actuator		
18	1	024900414	Wall bracket (for LPCB system)		
19	1	028255048	Pressure switch		
20	1	020080157	9L canister of FireDETEC® F/K agent		
21	1	028000279	Set of labels		

SPECIFICATIONS

WITH MANUAL ACTUATOR

Complete kitchen system

Partial kitchen system (excluding discharge tubes and fittings)











Complete kitchen system

Partial kitchen system (excluding discharge tubes and fittings





Product code unfilled	B07503000	B07503001	B07503002	B07503003
Agent capacity	9 Liters	9 Liters	9 Liters	9 Liters
Number of nozzles	3	3	3	3
Cylinder volume	12,5 L	12,5 L	12,5 L	12,5 L
System approval	LPCB	LPCB	_	-
Cylinder approval	CE (PED)	CE (PED)	CE (PED)	CE (PED)
Operating Temperature	5°C to 50°C	5°C to 50°C	5°C to 50°C	5°C to 50°C
Working pressure	16 bar at 20°C			
Sensor tubing color	Grey	Grey	Grey	Grey
Sensor tube connection	Standard	Standard	Quick-fit	Quick-fit
Valve with safety device	No	No	Yes	Yes
Cyl / valve weight	4,5 kg	4,5 kg	4,5 kg	4,5 kg
•	***	***		

VEHICLE ENGINE SYSTEM

A complete pre-engineered system for vehicle engine compartments

For all types of on-road and off-road vehicles

Everything you need together in one box



Optional dashboard control unit available (see p.50)



MINIMIZES RISK TO VITAL EQUIPMENT

- Most vehicle fires start in the engine compartment
- Helps prevent passenger injury
- Helps minimize damage to vital equipment and surrounding areas
- Minimizes service downtime during repairs
 - For safety, extinguishing liquid and pressurized gas are in separate chambers
 - When activated, the pressurized gas is released into the outer chamber forcing against a piston.
 - The piston pushes the liquid out through the discharge tube
 - A built-in pressure regulator ensures a constant and sustained discharge

KEY FEATURES

- A complete, ready-to-install system all in one box
- Available with liquid-based FireDETEC® TS-55 extinguishing agent
- Special patented cylinder designed specifically for high-vibration engine environments
- Available in 7L cylinder sizes
- Also available as a partial system without discharge tubes and fittings
- Cylinders available either empty or filled/pressurized





FireDETEC® vehicle engine systems are the first systems to be SP-Certified according to SPCR 183 / SP method 4912, chapter 3













*Red tubing for visualization only.

System is installed with black tubing









SYSTEM CONTENTS

COMPLETE VEHICLE ENGINE SYSTEM (excluding discharge tubes and fittings) (b) (c) (c) (d) (d) (excluding discharge tubes and fittings)

(9)

POS.	QTY.	CODE	DESCRIPTION
1	1	B09025000	Special Dual-chamber cylinder + fittings
2	1	024100037	Steel gasket
3	1	B07835026	Double ring fitting - straight G¼" - 8mm
4	1	022720039	Flexible stainless steel hose
5	1	028255047	Pressure switch (160 bar)
6	1	028255048	Pressure switch (5 bar)
7	4	B07835027	Double-ring fitting -straight 8mm
8	5	022700599	8mm Stainless steel tubing (1 m)
9	4	B07835029	Double ring fitting - tee - 8mm
10	5	B07835031	Double ring fitting - elbow - 8mm - R1/8" female
11	2	B07835030	Double ring fitting - tee - 8mm - R1/8" female
12	7	026205098	Nozzle
13	1	B07800202	FireDETEC® sensor tubing black (10m)
14	30	B07860002	Screwed clips for sensor tube attachment
15	1	B07810025	End-of-Line gauge - high vibration
16	1	B07850030	Protection spring for sensor tubing
17	1	020080158	7L canister of FireDETEC® TS-55 agent

POS.	QTY.	CODE	DESCRIPTION
1	1	B09025000	Special Dual-chamber cylinder + fittings
2	1	024100037	Steel gasket
3	1	B07835026	Double ring fitting - straight G¼" - 8mm
4	1	022720039	Flexible stainless steel hose
5	1	028255047	Pressure switch (160 bar)
6	1	028255048	Pressure switch (5 bar)
12	7	026205098	Nozzle
13	1	B07800202	FireDETEC® sensor tubing black (10m)
15	1	B07810025	End-of-Line gauge - high vibration
17	1	020080158	7L canister of FireDETEC® TS-55 agent

	COMPLETE VEHICLE ENGINE SYSTEM
Product code unfilled	B09026001
Product code filled*	B09026501
Agent capacity	7 Liters
Number of nozzles	7
Cylinder volume	7,0 L
Cylinder approval	π
Operating Temperature	-30°C to 80°C
Working pressure	200 bar
Sensor tubing color	Black

PARTIAL VEHICLE ENGINE SYSTEM (excluding discharge tubes and fittings)
B09026002
B09026502
7 Liters
7
7,0 L
π
-30°C to 80°C
200 bar
Black



^{*}filled and pressurized

ELECTRICAL CABINET - SMOKE DETECTOR

A system for electrical cabinets and other enclosed areas with electric circuitry that you configure yourself using available components



MINIMIZES RISK TO VITAL EQUIPMENT

- Detects a fire before it even becomes a fire
- Ideal for early electrical fires that usually emit smoke before they become a flame
- Helps prevent the actual fire and sends a warning signal for intervention
- Less equipment damage. Much faster repair to put the electrical circuitry back in service.
- Prevents extensive cleanup if the sprinkler system discharges

KEY FEATURES

- All-electronic smoke detection instead of thermal pneumatic tube detection
- For CO₂ extinguishing agent
- Standardly delivered unfilled. Can be filled on request



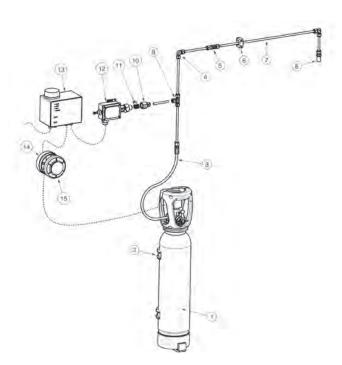


WHAT YOU SHOULD ORDER



CONFIGURE CYLINDER/VALVE ASSEMBLIES TO YOUR NEEDS BY ORDERING COMPONENTS SEPARATELY





POS.	QTY.	CODE	DESCRIPTION	
1	1	B04394006	B0439 kit 5 Kg. (not filled)	pg. 35
2	1	024900390	Cylinder bracket	pg. 51
3	1	B06920006	Flexible piping	pg. 47
4	1	B07835037	Tube fitting - Cross panel	pg. 45
5	2	B07835028	Tube fitting - Elbow	pg. 45
6	4	B07860006	Pipe bracket Ø8 mm	pg. 47
7	3	022700599	Stainless steel pipe Ø8 mm (1m)	pg. 45
8	1	026200116	Nozzle	pg. 48
9	1	B07835029	Tube fitting - Tee Ø8	pg. 45
10	1	B07835045	Adaptor 8 mm - G 1/2 "	pg. 45
11	3	024100013	Fiber joint	pg. 58
12	1	028250050	Pressure switch	pg. 50
13	1	B07850201	Control Box	pg. 49
14	1	028260001	Fume detector relay base	pg. 41
15	1	028220102	Fume detector	pg. 41

ABC DRY CHEMICAL SYSTEM

- A semi-complete fire suppression system
 using ABC dry chemical
 extinguishing agent excluding the discharge
 tubes and fittings
 - An economic alternative to
- chemical or CO₂ systems

IDEAL FOR:

- Vehicle engines
- A, B, C fires

KEY FEATURES

- Indirect system only
- Available in 3 cylinder sizes for small, medium and large installations
- Each cylinder available with multiple nozzle quantities
- Discharge line is not includedCylinders available filled/pressurized

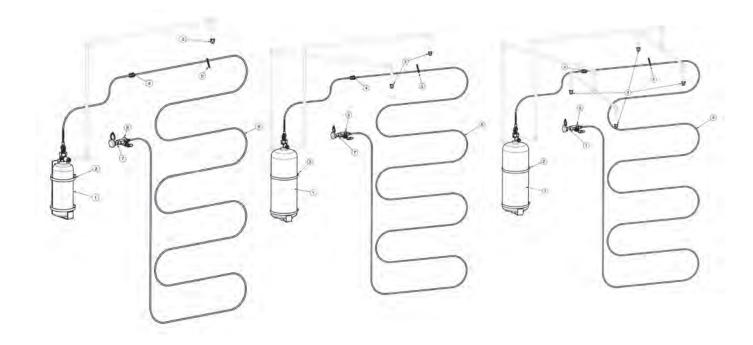




POWDER SYSTEMS - 1 NOZZLE

POWDER SYSTEMS - 2 NOZZLE

POWDER SYSTEMS - 4 NOZZLE



POS.	QTY.	DESCRIPTION
1	1	ILP cylinder/valve assembly (not filled) + label
2	1	Cylinder bracket
3	1	Nozzle G¼" (13 x Ø1,5mm)
4	1	Cross-panel fitting
5	20	Binding ties
6	1	FireDETEC® sensor tubing black (10m)
7	1	Manual release device
8	1	Wall bracket for manual release

POS.	QTY.	DESCRIPTION
1	1	ILP cylinder/valve assembly (not filled) + label
2	1	Cylinder bracket
3	2	Nozzle G¼" (13 x Ø1,5mm)
4	1	Cross-panel fitting
5	20	Binding ties
6	1	FireDETEC® sensor tubing black (10m)
7	1	Manual release device
8	1	Wall bracket for manual release

POS.	QTY.	DESCRIPTION
1	1	ILP cylinder/valve assembly (not filled) + label
2	1	Cylinder bracket
3	4	Nozzle G¼" (13 x Ø1,5mm)
4	1	Cross-panel fitting
5	20	Binding ties
6	1	FireDETEC® sensor tubing black (10m)
7	1	Manual release device
8	1	Wall bracket for manual release

	POWDER SYSTEMS - 1 NOZZLE
Product code unfilled	On request
Product code filled*	B07508000
Agent capacity	2 Kg.
Number of nozzles	1
Cylinder volume	2,5 L
Cylinder approval	CE
Operating Temperature	-20°C to 60°C
Working pressure	15 bar
Siphon tube	Yes
Sensor tubing color	Black

*filled and p	pressurized
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POWDER SYSTEMS - 2 NOZZLE					
On request	On request	On request			
B07508001	B07508003	B07508005			
2 Kg.	6 Kg.	9 Kg.			
2	2	2			
2,5 L	7,5 L	11,25 L			
CE	CE	CE			
-20°C to 60°C	-20°C to 60°C	-20°C to 60°C			
15 bar	15 bar	15 bar			
Yes	Yes	Yes			
Black	Black	Black			

POWDER SYSTEMS - 4 NOZZLE					
On request	On request	On request			
B07508002	B07508004	B07508006			
2 Kg.	6 Kg.	9 Kg.			
4	4	4			
2,5 L	7,5 L	11,25 L			
CE	CE	CE			
-20°C to 60°C	-20°C to 60°C	-20°C to 60°C			
15 bar	15 bar	15 bar			
Yes	Yes	Yes			
Black	Black	Black			



CYLINDER / VALVE ASSEMBLIES \mid CO $_2$ PNEUMATIC ACTUATION

Cylinder/Valve assemblies that you configure yourself by choosing individual components/accessories

Select the sensor tube system, discharge line, nozzles and accessories that fit your exact installation

ALL KITS INCLUDE:

- Cylinder
- Valve
- Ball valve
- Siphon Tube

KEY FEATURES

- Maximum flexibility by configuring the system
- Available with wide choice of cylinder sizes, cylinder approval, and extinguishing agent.







5 Kg.









2 Kg. 5 Kg.

Product code unfilled	B07024000	B070
Product code filled	B07024500	B070
Agent capacity	2 Kg.	5
Cylinder volume	2.7 liters	6.7
Cylinder approval	π	
Cyl. / valve weight (empty)	6,8 Kg.	10
Height	626 mm	737
Diameter	Ø 108 mm	Ø 14
Siphon tube	Yes	١
Operating temperature	-20°C to 60°C	-20°C

2 Kg.

	CO ₂ SYSTEM - INDIRECT					
Product code unfilled	B07024000	B07024001	B07024002	B07024008	B07024012	B07024013
Product code filled	B07024500	B07024501	B07024502	B07024508	B07024512	B07024513
Agent capacity	2 Kg.	5 Kg.	10 Kg. Short Ø204mm	10 Kg. Tall Ø140mm	20 Kg.	30 Kg.
Cylinder volume	2.7 liters	6.7 liters	13.4 liters	13.4 liters	26.7 liters	40.0 liters
Cylinder approval	π	π	π	π	π	π
Cyl. / valve weight (empty)	6,8 Kg.	10 Kg.	21 Kg.	18,5 Kg.	32 Kg.	41,5 Kg.
Height	626 mm	737 mm	737 mm	1207 mm	1183 mm	1681 mm
Diameter	Ø 108 mm	Ø 140 mm	Ø 204 mm	Ø 140 mm	Ø 204 mm	Ø 204 mm
Siphon tube	Yes	Yes	Yes	Yes	Yes	Yes
erating temperature	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C

CO ₂ SYSTEM - DIRECT					
B07034000	B07034001				
B07034500	B07034501				
2 Kg.	5 Kg.				
2.7 liters	6.7 liters				
π	π				
6,8 Kg.	10 Kg.				
626 mm	737 mm				
Ø 108 mm	Ø 140 mm				
Yes	Yes				
-20°C to 60°C	-20°C to 60°C				

** DIMES	CO ₂ SYSTEM WITH DIMES - INDIRECT					
Product code unfilled	B07025000	B07025001	B07025006	B07025002	B07025003	B07025004
Product code filled	B07025500	B07025501	B07025506	B07025502	B07025503	B07025504
Agent capacity	2 Kg.	5 Kg.	10 Kg. Short Ø204mm	10 Kg. Tall Ø140mm	20 Kg.	30 Kg.
Cylinder volume	2.7 liters	6.7 liters	13.4 liters	13.4 liters	26.7 liters	40.0 liters
Cylinder approval	π	π	π	π	π	π
Cyl. / valve weight (empty)	6,8 Kg.	10 Kg.	21 Kg.	18,5 Kg.	32 Kg.	41,5 Kg.
Height	626 mm	737 mm	737 mm	1207 mm	1183 mm	1681 mm
Diameter	Ø 108 mm	Ø 140 mm	Ø 204 mm	Ø 140 mm	Ø 204 mm	Ø 204 mm
Siphon tube	Yes	Yes	Yes	Yes	Yes	Yes
Operating temperature	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C





CYLINDER / VALVE ASSEMBLIES | CO₂ SOLENOID ACTUATION

Cylinder/Valve assemblies that you configure yourself by choosing individual components/accessories.

For fire suppression systems using electronic detection devices, such as smoke detectors, thermal bulbs, etc.

Not for use with pneumatic detection tubing

ALL KITS INCLUDE:

- Cylinder
- Valve Ball valve
- Siphon Tube
- Labels are not included

KEY FEATURES

- Available with wide choice of cylinder sizes, cylinder approval, and filled or unfilled with CO₂



	CO ₂ SYSTEM - SOLENOID ACTUATION					
Product code unfilled	B04394001	B04394000	B04394002	B04394003	B04394007	B04394008
Product code filled	B04394501	B04394500	B04394502	On request	On request	On request
Agent capacity	2 Kg.	5 Kg.	10 Kg. Short Ø204mm	10 Kg. Tall Ø140mm	20 Kg.	30 Kg.
Cylinder volume	2.7 liters	6.7 liters	13.4 liters	13.4 liters	26,7 liters	40.0 liters
Cylinder approval	CE	CE	CE	CE	CE	CE
Cyl. / valve weight (empty)	6,8 Kg.	10 Kg.	21 Kg.	18,5 Kg.	32 Kg.	41,5 Kg.
Height	626 mm	737 mm	737 mm	1207 mm	1183 mm	1681 mm
Diameter	Ø 108 mm	Ø 140 mm	Ø 204 mm	Ø 140 mm	Ø 204 mm	Ø 204 mm
Siphon tube	Yes	Yes	Yes	Yes	Yes	Yes
Operating temperature	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
Voltage	24V	24V	24V	24V	24V	24V

** DIMES	CO ₂ System with dimes - solenoid actuation					
Product code unfilled	B04395005	B04395004	B04395000	B04395001		
Product code filled	On request	B04395504	B04395500	B04395501		
Agent capacity	2 Kg.	5 Kg.	10 Kg. Short Ø204mm	30 Kg.		
Cylinder volume	2.7 liters	6.7 liters	13.4 liters	40.0 liters		
Cylinder approval	CE	CE	CE	CE		
Cyl. / valve weight (empty)	6,8 Kg.	10 Kg.	21 Kg.	41,5 Kg.		
Height	626 mm	737 mm	737 mm	1681 mm		
Diameter	Ø 108 mm	Ø 140 mm	Ø 204 mm	Ø 204 mm		
Siphon tube	Yes	Yes	Yes	Yes		
Operating temperature	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C		
Voltage	24V	24V	24V	24V		





CYLINDER / VALVE ASSEMBLIES | WITH HFC-227 ea

Cylinder/Valve assemblies that you configure yourself by choosing individual components/accessories

Select the sensor tube system, discharge line, nozzles and accessories that fit your exact installation





*Applies to indirect systems using DOT cylinders only. See UL & FM design, installation and maintenance manual for approved systems specifications.

ALL KITS INCLUDE:

- Cylinder
- Valve
- Ball valve
- Siphon Tube
- Mounting Brackets

KEY FEATURES

- Filled and charged with FM-200® (DOT) or HFC-227 (CE)
- Maximum flexibility by configuring the system
- Available with wide choice of cylinder sizes and cylinder approvals



DOT cylinders: label included CE cylinders: label must be ordered separately (p. 54)

INDIRECT



DIRECT



1.36 Kg. / 3 lbs

3.18 Kg. / 7 lbs

CE	HFC-227 ea SYSTEMS - INDIRECT CE-approved cylinders (European standards)						
Product code unfilled	B07014014	B07014013	B07014012				
Product code filled	B07014514	B07014513	B07014512				
Agent capacity	1,36 Kg. / 3 lbs.	3,18 Kg. / 7 lbs.	6,35 Kg./14 lbs.				
Cylinder volume	75 in ³	174 in ³	350 in ³				
Cylinder approval	CE	CE	CE				
Height	377 mm	437 mm	495 mm				
Diameter	Ø90 mm	Ø125 mm	Ø160 mm				
Siphon tube	Yes	Yes	Yes				
Operating temperature	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C				

HFC-227 ea SYSTEM - DIRECT CE-approved cylinders (European standards)			
B07004004	B07004005		
B07004504	B07004505		
1,36 Kg. / 3 lbs.	3,18 Kg. / 7 lbs.		
75 in ³	174 in ³		
CE	CE		
352 mm	403 mm		
Ø90 mm	Ø125 mm		
Yes	Yes		
-20°C to 60°C	-20°C to 60°C		

DOT	FM-200° SYSTEMS - INDIRECT DOT-approved cylinders (North American standards)		
Product code unfilled	B07014000	B07014001	B07014002
Product code filled	B07014500	B07014501	B07014502
Agent capacity	3 lbs.	7 lbs.	14 lbs.
Cylinder volume	75 in ³	174 in ³	350 in ³
Cylinder approval	DOT	DOT	DOT
Height	16"	15.27"	19.6"
Diameter	Ø2.929"	Ø4.992"	Ø6.135"
Siphon tube	Yes	Yes	Yes
Operating temperature	0°C to 54°C	0°C to 54°C	0°C to 54°C

FM-200° SYSTEM - DIRECT DOT-approved cylinders (North American standards)			
B07004000	B07004001		
B07004500	B07004501		
3 lbs.	7 lbs.		
75 in ³	174 in ³		
DOT	DOT		
16"	15.27"		
Ø2.929"	Ø4.992"		
Yes	Yes		
0°C to 54°C	0°C to 54°C		

CYLINDER/VALVE ASSEMBLIES | WITH 3M™ NOVEC™ 1230 FLUID

Cylinder/Valve assemblies that you configure yourself by choosing individual components/accessories.

Select the sensor tube system, discharge line, nozzles and accessories that fit your exact installation





ALL KITS INCLUDE:

- Cylinder
- Valve
- Ball valve
- Siphon Tube
- Label
- Mounting Brackets

KEY FEATURES

- Cylinders are filled and charged with 3M[™] NOVEC[™] 1230 Fire Protection Fluid - Maximum flexibility by configuring the system yourself
- Available with wide choice of cylinder sizes
- DOT Approved cylinders only

FireDETEC® systems with 3M™ NOVEC™ 1230 Fire Protection Fluid is a private label product of Fire Fluid Technologies, Inc.

*Applies to indirect only

INDIRECT







3.18 Kg. / 7 lbs

NOVEC 1230 FLUID



6.35 Kg. / 14 lbs



DIRECT

1.36 Kg. / 3 lbs

3.18 Kg. / 7 lbs

וטע	
Product code unfilled	B07014
Product code filled	B07014
Agent capacity	3 lb:
Cylinder volume	75 ir
Cylinder approval	D01
11 . 5 . 6 . 6	1/1

	DOT-approved cylinders (North American standards)		
Product code unfilled	B07014018	B07014019	B07014020
Product code filled	B07014524	B07014525	B07014526
Agent capacity	3 lbs.	7 lbs.	14 lbs.
Cylinder volume	75 in ³	174 in ³	350 in ³
Cylinder approval	DOT	DOT	DOT
Height	16"	15.27"	19.6"
Diameter	Ø2.929"	Ø4.992"	Ø6.135"
Siphon tube	Yes	Yes	Yes
Operating temperature	0°C to 54°C	0°C to 54°C	0°C to 54°C

NOVEC 1230 FLUID DOT-approved cylinders (North American standards)		
B07004012		
B07004517		
7 lbs.		
174 in ³		
DOT		
15.27"		
Ø4.992"		
Yes		
0°C to 54°C		

CYLINDER/VALVE ASSEMBLIES - SOLENOID | FOR NOVEC™ 1230 FLUID

For indirect fire suppression systems using electronic detection devices such as smoke detectors or thermal bulbs.

For use with NOVEC™ 1230 Fire Protection Fluid

ALL KITS INCLUDE:

- Cylinder
- Solenoid valve
- Pressure relief
- Pressure gauge
- Siphon Tube



- Solenoid actuation
- Available in 3Lb and 7Lb sizes
- CE cylinders only

CE	NOVEC 1230 SYSTEMS - SOLENOID ACTUATION		
Product code unfilled	B07014027	B07014028	
Agent capacity	1.36 Kg / 3 lbs	3.18 Kg / 7 lbs	
Cylinder volume	75 in³	174 in ³	
Cylinder approval	CE	CE	
Height	377 mm	437 mm	
Diameter	Ø 90 mm	Ø 125 mm	
Siphon tube	Yes	Yes	
Operating temperature	-20°C to 60°C	-20°C to 60°C	

CYLINDER / VALVE ASSEMBLY | KITCHEN SYSTEM

- Cylinder (unfilled)

- Siphon tube

- Valve

CYLINDER / VALVE ASSEMBLY:

- Extinguishing agent (unpressurized)

- For commercial kitchen installations
- Cylinder & valve assemblies that you configure yourself by choosing individual components / accessories.
- Choose the sensor tube system, discharge system and accessories that fit your exact installation.







	Without safety device	With safety device
Product code unfilled	B07013000	B07013001
Agent capacity	9 liters	9 liters
Cylinder volume	12,5 liters	12,5 liters
Cylinder approval	CE (PED)	CE (PED)
Cyl. weight (empty)	4,5 Kg.	4,5 Kg.
Cylinder material	Stainless Steel	Stainless Steel
Siphon tube	Yes	Yes
Sensor tube connection	Standard	Quick fitting
Valve safety device	No	Yes

1 CYLINDER SIZE

- 9 liters
- Cylinders are delivered unfilled
- Cylinders can easily be filled and pressurized prior to installation
- FireDETEC® F/K extinguishing agent must be ordered separately (p.53)



CYLINDER / VALVE ASSEMBLY | VEHICLE ENGINES

- For vehicle engine installations
- Cylinder & valve assemblies that you configure yourself by choosing individual components / accessories.
- Choose the sensor tube system, discharge system and accessories that fit your exact installation.

CYLINDER / VALVE ASSEMBLY:

- Cylinder with mounting brackets (unfilled)

- Valve



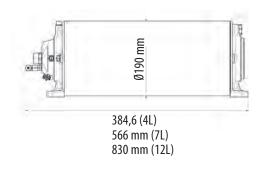
		Liquid extinguishing agent	
Product code unfilled	B09024000	B09025000	B09023000
Product code filled	B09024500	B09025500	B09023500
Cylinder volume	4 liters	7 liters	12 liters
Cylinder approval	π	π	π
Cyl. weight (empty)	8,4 Kg.	12,5 Kg.	25 Kg.
Siphon tube	No	No	No
Operating temperatue range	-35°C to 80°C	-35°C to 80°C	-35°C to 80°C

3 CYLINDER SIZES

4, 7 and 12 liters

Cylinders available either empty or filled/pressurized

FireDETEC TS-55 must be ordered separately (p.53)



^{*}filled and pressurized



SENSOR TUBING FOR

KITCHEN SYSTEMS

CYLINDER-VALVE ASSEMBLIES | ABC DRY CHEMICAL

- For Indirect Powder systems
- Cylinder/Valve assembly for ABC dry chemical systems that you configure yourself using individual components / accessories.

CYLINDER/VALVE ASSEMBLY:

- Cylinder
- ILP Valve
- Siphon tube
- Ball valve
- Mounting Bracket
- Labels must be ordered separately (p.55)



SPECIAL APPLICATION SENSOR

TUBING

KEY FEATURES

- Maximum flexibility by configuring the system vourself
- Available with choice of 3 cylinder sizes: 2 Kg. / 6 Kg. / 9 Kg.

Product code unfilled	B07018000	B07018001	B07018002
Product code filled	B07018500	B07018501	B07018502
Cylinder kit size	2 Kg.	6 Kg.	9 Kg.
Cylinder volume	2,6 L	7.0 L	10,4 L
Cylinder approval	ĆE	CE	ĆE
Operating Temperature	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
Working pressure	15 bar	15 bar	15 bar
Siphon tube	Yes	Yes	Yes

FIREDETEC® SENSOR TUBING - 6 mm

6mm FireDETEC® sensor tubing in 10m or 100m lengths

KEY FEATURES

- Choice of all-purpose or special application versions
- Available in 10 meter and 100 meter lengths
- See pages 10-11 for additional detail

 ALL-PURPOSE

SENSOR TUBING

•	71 ° (
	10 meters	100 meters	10 meters	100 meters	10 meters	100 meters
Product code	B07800015	B07800002	B07800202	B07800200	B07800303	B07800301
Application	For all ap	pplications	Multi-layer construct to temperature extrei and	mes, chemical agents	grease conditions	d to withstand heat and above kitchen cooking areas
ldeal for	Electrical Cabinets Relay boxes CNC Machines Construction Machinery Agricultural Machines		Laboratory Chemical st Petroleum s Hydraulic e Vehicle	torage tanks equipment		onal Kitchens k for grease fire
Outside Diameter	Ø: 0.234" / 6 mm Ø: 0.234" / 6		" / 6 mm	Ø: 0.23	34" / 6 mm	
Inside Diameter	Ø: 0.156" / 4 mm		Ø: 0.156" / 4 mm		Ø: 0.15	56" / 4 mm
Color	Red RAL 3000		Black RA	AL 9005		RAL 1018
Min. bend radius	4"/1	00 mm	5.9"/1	50 mm		¹⁵⁰ mm
Burst temperature	110°C)°C		175℃
Operating temperature range	-30°C to 80°C -30°C to 80°C		-30°	C to 90°C		

FIREDETEC® SENSOR TUBING - 8 mm

8mm FireDETEC® sensor tubing for Direct systems using clean agent extinguishing agent



8 mm TUBING



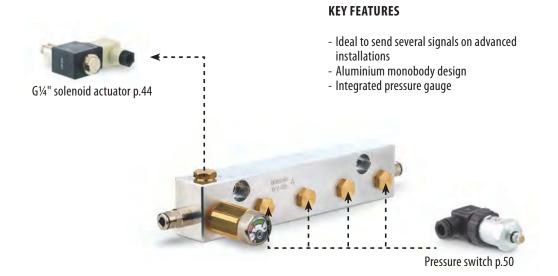


	100 meters	Converts a 6 mm device to 8mm
Product code	B07800022	B07831011
Outside Diameter	8 mm	for 8 mm tubing
Color	Red RAL 3000	Nickel plated brass
Burst temperature	110°C	· -
Temperature range	-30°C to 80°C	-30°C to 80°C

PRESSURE SWITCH MANIFOLD

- Used to add supplemental functionalities (pressure switch, solenoid actuator)





Product code	B07850046
Number of entry	5 (4xM10+1xG1/4")
Pressure gauge	Included (0-20 bar)
Working pressure	20 bar
Length	232 mm
Height	40 mm
Width	30 mm

PROTECTION SPRING

To protect the sensor tubing from damage for Ø 6 mm tubing



KEY FEATURES

- Coils around the entire length of the sensor tube to provide a protective casing
- Choice of standard or quick connect fittings

Length	33' / 10 meters
Material	Stainless Steel
Material	Stalliless Steel

For standard end connections For quick connect connections





Product code

B07850030

022200040



PROTECTION SPRING TOP

To protect the sensor tubing connection when using standard fittings for Ø 6 mm tubing



KEY FEATURES

- Helps maintain a safe and tight sensor tubing connection
- With standard connection

SENSOR TUBE ATTACHMENTS



SMOKE DETECTOR

To detect a fire in its earliest stages by detecting the smoke it emits before flames appear

Can be used as a detector for the B0439 Smoke Detector System, or as an incremental detection device for systems with FireDETEC® sensor-tube detection

SENSOR UNIT

KEY FEATURES

- CE-approved
- Audio and LED visual signal

RELAY BASE



Product code	028220102	028260001
Height	32,5 mm	33 mm
Diameter	102 mm	102,5 mm
Material	ABS	ABS
Power Supply	8-30VDC	10-15 VDC
Maximum alarm current	80mA	
IP rating	IP 40	IP 40
Operating temperature	-30°C to 70°C	-30°C to 70°C

All installation wiring must conform to applicable local and national codes



QUICK CONNECTION FITTINGS FOR SENSOR TUBING Ø 6 mm

Fittings to connect FireDETEC® sensor tubing

KEY FEATURES

- Plug-in connections for quick, secure and leak-free installations
- Nickel plated brass

	STRAIGHT COUPLING	ELBOW	TEE	STRAIGHT END	END ELBOW	END TEE
					9	
Product code	B07831010	B07831006	B07831007	B07831005	B07831008	B07831003
Connections	0.234" / Ø 6 mm	0.234"/Ø6 mm	0.234" / Ø 6 mm	0.234" / Ø 6 mm G%" male	0.234" / Ø 6 mm G½" male	0.234" / Ø 6 mm G%" male

Nickel - Plated brass

Nickel - Plated brass

Nickel - Plated brass

Nickel - Plated brass

STANDARD CONNECTION FITTINGS FOR SENSOR TUBING Ø 6 mm

Fittings to connect FireDETEC® sensor tubing

Material

Nickel - Plated brass

KEY FEATURES

Nickel - Plated brass

- Forms secure, leak-tight connections of sensor tubing
- Available in multiple configurations
- Material: nickel plated brass

END FITTING	STRAIGHT FITTING	STRAIGHT PANEL FITTING	TEE FITTING	CROSS FITTING
Gasket 024100034	W.			

Product code	B07830010	B07830002	B07830004	B07830000	B07830001
Connections	0.234" / Ø 6 mm G%" male	0.234"/Ø6 mm	0.234" / Ø 6 mm	0.234"/Ø6 mm	0.234"/Ø6mm
Material	Nickel - Plated brass	Nickel - Plated brass	Nickel - Plated brass	Nickel - Plated brass	Nickel - Plated brass

Must be ordered separately p.58



HIGH VIBRATION FITTINGS FOR SENSOR TUBING Ø 6 mm

Fittings to connect FireDETEC® sensor tubing in high-vibration environments.

KEY FEATURES

- Double ferrule fittings for exceptional grip in high vibration environments
- Must be used with tube support B07830023 (not included)



Tube support B07830023 must be ordered separately

	END FITTING	STRAIGHT FITTINGS	ELBOW FITTING	TURNING ELBOW FITTING	TEE FITTING	TUBE SUPPORT	REPLACEMENT NUT +FERRULES
	Gasket 024100034 Must be ordered separately p.58	300		Gasket 024100034 Must be ordered separately p.58			For all non-turning fittings B07830032 For all turning fittings B07830025
Product code	B07830024	B07830029	B07830021	B07830025	B07830022	B07830023	B07830033
Connections	0.234" / Ø 6 mm G½" male	0.234"/Ø6mm	0.234"/Ø6mm	0.234" / Ø6 mm G%" male	0.234" / Ø 6 mm	0.234"/Ø6 mm	0.234" / Ø 6 mm
Material	Galvanized Steel	Galvanized Steel	Galvanized Steel	Galvanized Steel	Galvanized Steel	Brass	Galvanized Steel / Polyamide

CROSS PANEL FITTINGS Ø 6 mm

Fittings to attach and/ or protect sensor tubing through a panel

KEY FEATURES

- Polymer construction to protect from sharp metal edges

THROUGH - PANEL FASTENER





Exerts radial compression when tightened to securely hold tubing in place



Protects the sensor tubing from sharp edges

Product code	B07830005	B07860001
Material	Nylon	Rubber
Orifice Diameter	Ø 0.234" / 6mm	Ø 0.25" / 6.3mm
Max. panel thickness	0.95" / 2.4mm	0.07" / 1.8mm
Length	1.18"/30mm	0.20" / 5mm

WALL MOUNTING BRACKET

G THREADS ARE PARALLEL THREADS ACCORDING TO ISO 228/1 $\,$

To easily attach actuators to a wall or panel. For use with all models of: end-of-line gauges, manual and solenoid actuators.





END OF LINE DEVICES & ACTUATORS FOR SENSOR TUBING

To seal and charge the far end of the sensor tube

KEY FEATURES

- Nickel plated brass body
- Available in standard, quick connect or high vibration
- Through-panel mounting

CHOOSE FROM 3 AVAILABLE END CONNECTIONS Standard Quick connect High vibration

END OF LINE PLUG

END OF LINE GAUGE

MANUAL ACTUATOR

PISTON BLOCK

SOLENOID ACTUATOR















- Basic plug to seal the end of line
- Includes: check valve, pressure gauge & fittings to connect to sensor tubing
- Includes: pressure gauge, connection for filling adaptor and fittings to connect to sensor tubing
- Large, easily visible knob
- Yellow safety collar
- Includes: pressure gauge, sensor tube fittings pressure switch port and filling adaptor port integrated in an aluminium monobloc body. Durable and corrosion-resistant piston.
- Easy installation
- No need to change diaphragm
- Includes: pressure gauge, connection for filling adaptor, fittings to connect to sensor tubing.
- For supplemental actuation via electronic sensor or control room

Product codes					12V	24V
Quick connect fittings	029510056	B07810026	B04420128	B04420150		B04420127
Standard connections	029510010	B07810014	B04420115	B04420144	B04420095	B04420085
High vibration		B07810025	B04420143	B04420145		B04420142

Tube connection	6mm	6mm	6mm	6 mm	6mm	6mm
Length	1.13" / 29 mm	2.77" / 71 mm	4.95" / 106 mm	4.95" / 106 mm	3.9"/100 mm	3.9"/100 mm
Power					9W / 12 V	9W / 24 V
Gauge scale	-	0 - 20 bar	0 - 20 bar	0 - 28 bar	0 - 20 bar	0 - 20 bar
Charging port	NO	YES	YES	YES	YES	YES

G1/4" SOLENOID ACTUATOR

For electronic actuation using a smoke detector or other electronic detection device

KEY FEATURES

- Mounts directly on IHP cylinder valves (B0702 series) or mounts on pressure switch manifold B07850046 p.40



Product code	B04420088
Connection	G¼"
Power	9W / 24V
Max. working pressure	20 bar
Temperature range	$-20 \text{ to} + 60^{\circ}\text{C}$
Length	74mm



STAINLESS STEEL DISCHARGE TUBING & PIPING

Discharge tubing for FireDETEC® indirect systems

STAINLESS STEEL TUBE

SCHEDULE 40 STAINLESS STEEL PIPE FOR CLEAN AGENT SYSTEMS



Product code	022700599	022700610	022700611	022700612	022700613
Diameter	Ø 8 mm	Ø ¼" / 13,7mm	Ø 3⁄8" / 17,1mm	Ø ½" / 21,3mm	Ø ¾" / 26,7mm
Length	1 meter	1 meter	1 meter	1 meter	1 meter
Fittings compatibility	double ring fittings	pipe fittings	pipe fittings	pipe fittings	pipe fittings
Thread	-	NPT	NPT	NPT	NPT

DOUBLE RING FITTINGS FOR 8mm STEEL DISCHARGE TUBING

Fittings to connect 8 mm stainless steel discharge tubes

KEY FEATURES

- Double ferrule compression technology for exceptional grip even under high pressure

STRAIGHT



CROSS PANEL





Product code	B07835027	B07835037	B07835028
Connection	Ø 8 mm	Ø 8 mm	Ø 8 mm
Material	AISI 316L	AISI 316L	AISI 316L

TEE

STRAIGHT PIPE & NOZZLE FITTING

ELBOW NOZZLE FITTING MALE







Product code	B07835029	B07835026	B07835036
Connection	Ø 8 mm	Ø 8 mm, G ¼" male	Ø 8 mm, G ¼" male
Material	AISI 316L	AISI 316L	AISI 316L

TEE NOZZLE FITTING
MALE

ELBOW NOZZLE FITTING FEMALE

TEE NOZZLE FITTING FEMALE



for vehicle systems



Product code	B07835041	B07835031	B07835030
Connection	Ø 8 mm, G ¼" male	Ø 8 mm, R 1/8" female	Ø 8 mm, R 1/8" female
Material	AISI 316L	AISI 316L	AISI 316L

STRAIGHT NOZZLE FITTING FEMALE

STRAIGHT FITTING MALE

STRAIGHT FITTING

ADAPTER FOR PRESSURE SWITCH









Product code		B07835038	B07835039	B07835042	B07835045
	Connection	Ø 8 mm, G ¼" female	Ø 8 mm, G ¼" male	Ø 8 mm, ½" male NPT	8 mm double ring fitting — G ½"
	Material	AISI 316I	AISI 316I	AISI 316L	Stainless Steel

GTHREADS ARE PARALLEL THREADS ACCORDING TO ISO 228/1
R THREADS ARE TAPERED THREADS ACCORDING TO ISO 7-1 AND EN10226-1



PIPE FITTINGS FOR STEEL DISCHARGE PIPING - NPT

Fittings to connect ¼", ¾", ½" and ¾" steel threaded piping for clean agent systems



STRAIGHT UNION 3/8"

STRAIGHT UNION 1/2"

STRAIGHT UNION 34"









Product code	B07833001	B07833006	B07833008	B07833012
Connection	1/4" NPTF	3/8" NPTF	½" NPTF	3/4" NPTF
Material	Galvanized carbon steel	Galvanized carbon steel	Galvanized carbon steel	Galvanized carbon steel

RUN UNION 1/4" TO 1/4"

RUN UNION 1/2" TO 1/2"

RUN ADAPTER 1/2"TO 3/8"

RUN ADAPTER ½"TO ¾"









Product code	B07833002	B07833003	B07833004	B07833010
Connection	14" NPTM - 14" NPTF	1/2" NPTM - 1/2" NPTF	1/2" NPTM - 3%" NPTF	1/2" NPTM - 3/4" NPTF
Material	Galvanized carbon steel	Galvanized carbon steel	Galvanized carbon steel	Galvanized carbon steel

ELBOW UNION 1/4"

ELBOW UNION 3/8"

ELBOW UNION 1/2"

ELBOW UNION 3/4"









Product code	B07833000	B07833005	B07833007	B07833011
Connection	1/4" NPTF	3/8" NPTF	½" NPTF	34" NPTF
Material	Galvanized carbon steel	Galvanized carbon steel	Galvanized carbon steel	Galvanized carbon steel

TEE UNION 1/2"

TEE UNION 3/4"

STRAIGHT ADAPTER 34" TO 1/2"







Product code	B07833009	B07833013	B07833014
Connection	1/2" NPTF	34" NPTF	¾" NPTF male - ½" NPTF female
Material	Galvanized carbon steel	Galvanized carbon steel	Galvanized carbon steel

DISCHARGE HOSES

To connect discharge tubing to the cylinder valve assembly in FireDETEC® systems.



KITCHEN SYSTEM HOSE

VEHICLE ENGINE SYSTEM HOSE







Product code	B06920006	022720040	022720039
Length	800 mm	600 mm	1250 mm
Cylinder connection	W21.8 x 1/4"	8X1 Tube adapter	8X1 Tube adapter
Tube connection	Ø 8x1mm Tube fitting	Ø 8x1mm Tube adapter	Ø 8x1mm Tube adapter
Material	Oil resistant & weatherproof synthetic rubber	Stainless steel	Stainless steel
Max. working pressure	300 bar at 20°C	220 bar at 20°C	220 bar at 20°C

MOUNTING BRACKETS FOR DISCHARGE TUBING & PIPING

To secure discharge tubing in place











Product code	B07860006	B07860007	B07860008	B07860009	B07860010
for tubing	Ø 8 mm	Ø 1⁄4"	Ø 3/8"	Ø ½"	Ø ¾"
material	PA 6.6	steel	steel	steel	steel

DIRECTIONAL VALVE KIT

Ready-to-install assembly of directional valve + fittings to create separate protection zones within the same cylinder/valve system

One directional valve is needed for each individual protection zone

DOUBLE-RING HIGH PRESSURE

For 8 mm stainless steel discharge tubing



Product code	B07060003	
Sensor tube connection	6 mm Quick Fit	
Discharge tube connection	8 mm double-ring fitting	
Max working pressure	250 bar	



POS.	QTY.	DESCRIPTION
1	1	Directional Valve Body
2	1	8 mm Double-ring tube fitting
3	1	Gasket
4	1	6mm fitting - quick-fit
5	1	6mm tee - quick-fit



DISCHARGE NOZZLES

Dispersion nozzles for FireDETEC® systems.

3 HOLE NOZZLE

DIRECTIONAL CONE

DIRECTIONAL CONE WITH FLANGE

CO₂ and inert gas



CO₂ and inert gas



CO₂ and inert gas



Product code
Orifice
Dimensions
Connection
Material

luct code	026200116
Orifice	3 holes x 2 mm
nensions	Ø16 mm x 25 mm
nnection	G ¼ female
Material	Stainless Steel 303

B06960031 4 holes x 2 mm Ø80 mm x 92 mm G 1/2" Nickel-plated brass + aluminum

VEHICLE NOZZLE

B06960032 4 holes x 2 mm Ø100 mm x 92 mm G 1/2"

Nickel-plated brass + aluminum

KITCHEN NOZZLE

POWDER NOZZLE



026200117

1 hole x 2.7 mm

Ø13.5 mm x 25 mm

R¼" male

Stainless Steel





026205098

1 hole x 2 mm

Ø10 mm x 22 mm

R%" male

Stainless Steel

FM-200®







026200132

13 holes x 1,5 mm

Ø19 mm x 24 mm

G1/4" female

Nickel-plated brass



Product code
Orifice
Dimensions
Connection
Material

rifice	
sions	
ction	
erial	
	_



FM-200®

7 LB. KIT

14 LB. KIT

14 LB. KIT



3 LB. KIT

FM-200®









1 Nozzle configuration 026200102

1/4" NPT

0.085"

8

1 Nozzle configuration 026200104

%″ NPT

0.138"

8

48.6 psi

8.8 seconds

Ø: 0.875" / 22,5 mm

Raw Brass

2 Nozzle configuration 026200103

%″ NPT

0.085"

8

57.7 psi

8.2 seconds

Ø: 0.875" / 22,5 mm

Raw Brass

1 Nozzle configuration 026200107

1/2" NPT

0.200"

8

53.7 psi

7.5 seconds

Ø: 0.975" / 25 mm

Raw Brass

2 Nozzle configuration 026200105

1/2" NPT

0.138"

8

56 psi

7.6 seconds Ø: 0.975" / 25 mm

Raw Brass

Product code
Connection
Orifice Diameter
Number of orifices
Nozzle Pressure
Discharge time
Nozzle O.D.
Material

ormces	δ
ressure	32.7 psi
ge time	8.7 seconds
zle O.D.	Ø: 0.74" / 19 mm
/laterial	Raw Brass
	3 LB. KIT

7	L	В.	K	IT

7 LB. KIT

14 LB. KIT

NOVEC™ 1230 FLUID

14 LB. KIT

NOVEC™ 1230 FLUID

NOVEC™ 1230 FLUID

NOVEC™ 1230 FLUID









026200106





Ø: 0.975" / 25 mm

Raw Brass



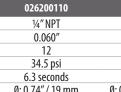
Ø: 0.975" / 25 mm

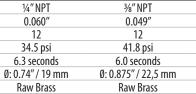
Raw Brass

Product code
Nozzle Diameter
Orifice Diameter
Orifice Quantity
Nozzle Pressure
Discharge time
Nozzle O.D.
Material

Product code	
Nozzle Diameter	
Orifice Diameter	
Orifice Quantity	
Nozzle Pressure	
Discharge time	
Nozzle O.D.	
Material	

uct code	
iameter	
iameter	
Quantity	
Pressure	
rge time	
zzle O.D.	
Matarial	







43.0 psi

9.1 seconds

Ø: 0.875" / 22,5 mm

Raw Brass

However 198	White we have
026200108	026200109
1/2" NPT	½" NPT
0.109"	0.049"
24	24
30.1 psi	45.7 psi
6.7 seconds	6.3 seconds

DIMES CONTROL & ALARM BOX

Control Box with Alarm for DIMES system



KEY FEATURES

- Power supply: 230 V AC
- Protection IP 40
- Battery backup: 12 V 1,2 Ah
- 3 Inputs / 1 Output

DIMES CALIBRATION UNIT

Digital display and calibration device for DIMES digital measurement system



KEY FEATURES

- Calibrates valve to cylinder and saves data via a built-in microchip
- Digital display can also be used to monitor system

DIMES CONNECTOR CABLE

To connect the DIMES valve to a DIMES Alarm Box



- 8 Pin connection
- 2 meter long cable



PRESSURE SWITCHES

For supplemental functionalities when the system actuates such as sounding an alarm, closing ventilator ducts or cutting power supply.











For discharge detection

For leak detection

For use only with FM Approved ILP Systems

				ILP Systems
Product code	028255048	028255059	028255047	029900168
Switch type	SPDT	SPDT	SPDT	SPST
Fixture	M10 x 1	M10 x 1	M10 x 1	M10 x 1
Туре	NO / NC	NO / NC	NO / NC	Normally open
Electrical rating	V max: 240V I max: 3A	V max: 240V I max: 3A	V max: 240V I max: 3A	120 / 240 VAC - 375 VA 24 VAC - 125 VA
Operation	5 bar ± 0.5 bar	12 bar ± 0.5 bar	160 bar ± 1,3 bar	Open 160 psi y-7 Close 185 psi y-5
Max pressure	60 bar	60 bar	350 bar	345 bar / 5000 psi
Connection	DIN EN 175301-803	DIN EN 175301-803	DIN EN 175301-803	
0-ring material	EPDM	EPDM	EPDM	NBR

ALARMS

Audio alarm for connection to pressure switches to warn if system actuates, or if system depressurizes due to leak.

ALARM 9 V DC BATTERY

ALARM 12 V DC BATTERY





Product code	B07850043	B07850044	
Audible signal	100 db	100 db	
Power supply	9V Carbon zinc battery	12V 600Ah rechargeable lithium battery	
Dimensions	115x136x53 mm	115x136x53 mm	

DASHBOARD WARNING DEVICE

Accessory for the FireDETEC® Vehicle Engine System to warn the driver in the event of a fire, or a system leak.

Mounts in the driver cabin of any vehicle

- Delivers visual and audio warning to vehicle driver
- 3 warning lights to indicate system status:
 - · Green = System OK
 - \cdot Yellow = Error System needs service
 - · Red = System discharge stop & evacuate
- Robust aluminum casing for long service lifetime



Product code	B07850302
Power supply	12VDC to 24VDC
Temperature range	
Electrical Connectors	Superseal cap housing, 2 positions (power); Superseal plug housing, 4 positions (sensors); Superseal plug housing, 2 positions (alarm)
Wire	
Dimensions	124,5 x 50 x 27 mm



CYLINDER MOUNTING BRACKETS - CO₂

To mount all FireDETEC® CO₂ Cylinder / Valve 2/5/10 Kg. kits.

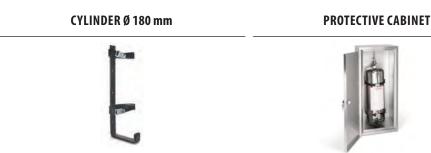


Product code	024900399	024900390	024900422	024900395
Diameter	Ø 108 mm	Ø 140 mm	Ø 140 mm	Ø 204 mm
Height	373 mm	493 mm	930 mm	413 mm
Depth	145 mm	170 mm	170 mm	235 mm
Material	Powder-coated Steel	Powder-coated Steel	Powder-coated Steel	Powder-coated Steel
Weight	1.5 Kg.	2 Kg.	2 Kg.	2 Kg.

CYLINDER MOUNTING OPTIONS - KITCHEN SYSTEM

To mount the FireDETEC Kitchen cylinder/valve assembly (Ø180 mm).

Protective cabinet helps keep the cylinder/valve assembly clean and protects the valve from impact.



Product code	024900401	029840030
Diameter	180 mm	<u>-</u>
Height	465 mm	750 mm
Depth	213 mm	250 mm
Width	-	350 mm
Material	Powder-coated steel	Stainless Steel
Weight	2 Kg.	4 Kg.

WALL MOUNTING RAIL - CO₂

Wall mounting rail for 20Kg. and 30Kg. CO₂ cylinders.

KEY FEATURES - Galvanized steel components for solid support and a long service lifetime 1 2 3

WALL MOUNTING RAIL

Input	Lenath L	Product code
πιρατ	Lenguil	i iouuct couc
1 cylinder	400 mm	024900311

CLAMP FOR CYLINDER

Diameter	Product code
203-212 mm	024900424

END CAP FOR MOUNTING RAIL AND BRACKET

Product code
024900322



PRESSURE SWITCH

Detects when the system discharges and sends an electronic signal for a secondary function, such as sounding an alarm, cutting power supply or turning off ventilation air flow



Product code	028250050
Opening Pressure	2 bar
Connection	G 1/2"
Power source	400 VAC / 3A or 24 VAC / 10 A
Protection	IP65

CHECK VALVE FOR SENSOR TUBING

Prevents backwards flow of gas when pressuring sensor tubing



Only for use when filling sensor tubing

PRESSURE GAUGES

Optional and spare pressure gauges

PRESSURE GAUGE WITH CONTACT SWITCH PRESSURE GAUGE FOR FM-200° AGENT PRESSURE GAUGE FOR NOVEC™ 1230 FLUID PRESSURE GAUGE FOR KITCHEN SYSTEMS PRESSURE GAUGE FOR VEHICLE SYSTEMS











Product code	029720096	028200190	028200191	029720111	029720059
Suppression agent	Chemical gas or Inert gas	FM-200®	NOVEC [™] 1230	FireDETEC F/K®	Inert gas
Connection	M10 x 1	1/8" NPT	1⁄8″ NPT	M10 x 1	M10 x 1
Scale	0 - 20 bar	0 - 500 psi	0 - 400 psi	0 - 28 bar	0 - 350 bar
Dimensions	Ø 40 mm	Ø 37,5 mm	Ø 37,5 mm	Ø 23 mm	Ø 39 mm
Preset pressure	5-7 bar normally closed	-	-	-	-



FIREDETEC® EXTINGUISHING AGENT REFILL

Refill canisters of extinguishing agent for specialty applications

FIREDETEC® F/K



9 L	LITER	S	25	LI.	TERS

Product code	020080157	020080156
Extinguishing agent	FireDETEC® F/K	
Applications	For commerical kitchen systems	

FIREDETEC® TS-55



020080158	020080162	020080152		
FireDETEC® TS-55				
For vehicle engine system				

SOLENOID ILP VALVE

Optional ILP cylinder valve that can be actuated two ways - either via pneumatic sensor tubing or electronically with a solenoid.



Product code	B07010500
Working pressure	24 bar
Cylinder connection	M 30 x 1,5
Outlet connection	G ¼"
Power	9W / 24 V DC

KEY FEATURES

- 2 way actuation with integrated solenoid actuator and/or pneumatic sensor tubing detection
- Two outlet ports (G1/4")
- Integrated pressure gauge
- π 0029 marked
- Not compatible with FireDETEC® F/K agent

TWO ZONE DLP VALVE

Optional DLP cylinder valve that connects two pneumatic sensor tube lines for two separate protection zones.



Product code	B07040003
Working pressure	24 bar
Cylinder connection	M 30 x 1,5
Outlet connection	G 1⁄4″

- Two independent ball valves for 2-zone protection
- Integrated pressure gauge
- π 0029 marked



FIREDETEC® CYLINDER LABELS LANGUAGE PACKS

- Spare labels for FireDETEC® System cylinders in various languages
- Labels are specific to the extinguishing agent being used



Labels are only valid for systems configured entirely with FireDETEC components.

CO₂

FIREDETEC® F/K
KITCHEN SYSTEMS

FIREDETEC® TS-55
VEHICLE SYSTEMS



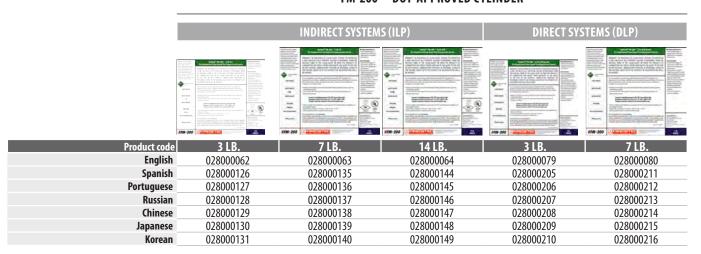




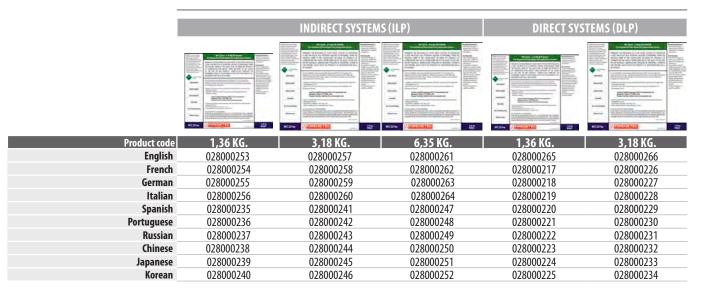


Product code	ALL SIZES	ALL SIZES	ALL SIZES	ALL SIZES
English	028000082	028000084	028000091	028000200
French	028000114	028000163	028000150	028000200
German	028000115	028000164	028000151	028000200
Italian	028000116	028000165	028000152	028000201
Spanish	028000117	028000166	028000153	028000202
Portuguese	028000118	028000167	028000154	028000202
Russian	028000119	028000168	028000155	028000203
Chinese	028000120	028000169	028000156	028000203
Japanese	028000121	028000170	028000157	028000204
Korean	028000122	028000171	028000158	028000204

FM-200° - DOT-APPROVED CYLINDER

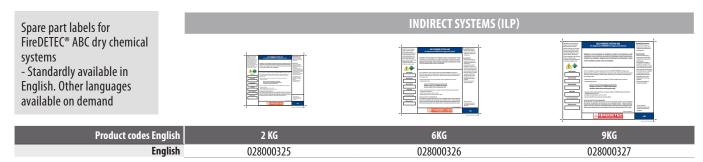


HFC 227 EA - CE-APPROVED CYLINDER





ABC DRY CHEMICAL SYSTEM LABELS

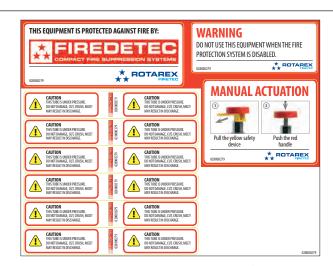


Others languages available on demand (French, German, Italian, Spanish, Portuguese, Russian, Chinese, Japanese, Korean)

WARNING LABEL SETS

- Auto-adhesive safety stickers

FOR ALL SYSTEMS



028000279
028000280
028000281
028000282
028000283
028000284
028000285
028000286
028000287
028000288
028000289
6 tube warning stickers
1 actuator instruction
1 "equipment protected" sticker
1 disabled warning sticker

INSTALLATION TOOLS

Specialized tools to facilitate easier installation of FireDETEC® systems

SENSOR TUBE CUTTER

SENSOR TUBE GRIPPING TOOL



Razor pinch cutter for clean, square edges



Flexible rubber pad to grip sensor tubing

Product codes

B07850001

024920014

SENSOR TUBE FILLING ADAPTOR

Allows connection of a charging cartridge to an end-of-line device to pressurize the sensor tube



Product code	B07810005
Extinguishing agents	Water, powder and chemical
Working Temperature	- 20°C to +60°C
Working Pressure	10 to 18 bar
Connection	M10x1

KEY FEATURES

- Includes: Protective Spring top and connector
- Standard fittings

SENSOR TUBE 2,7 L FILLING KIT

Used to pressurize FireDETEC® sensor tubing

_	UNFILLED	FILLED
Product code	B07502000	B07502500
Pressure	200 bar	200 bar
Outlet pressure	16 bar	16 bar
Weight	6,5 Kg.	8,5 Kg.



KEY FEATURES

- DHP cylinder / Valve kit with sensor tube + fitting adaptor
- Available filled or unfilled

SENSOR TUBE FILLING / DEMO KIT

Used to pressurize FireDETEC® sensor tubing or to demo the sensor tubing function





_		
Product code	B07502002	B07502502
Cylinder Pressure	150 bar	150 bar
Outlet pressure	16 bar	16 bar
Dimensions	Ø 50 x 314 mm	Ø 50 x 314 mm

- Available filled or unfilled
- Comes in a carrying case
- Kit contains:
 - · 0.2 liter cylinder
 - · Valve with pressure gauge and ball valve
 - · Tube cutter
 - $\cdot \ Filling \ adaptor$
 - · Sensor tubing
 - · End plugs
 - · Lighter



END OF LINE SPARE PARTS

Replacement part for FireDETEC® actuators

GAUGE + GASKET

SAFETY COLLAR

DIAPHRAGM FOR MANUAL ACTUATION







Product codes

029720086

026800016

SINGLE RING FITTINGS FOR 8mm COPPER DISCHARGE TUBING

Fittings to connect 8 mm copper discharge tubes

KEY FEATURES

- Single ferrule grips into copper tubing for leak-tight joints
- Max pressure 40 bar

END FITTING MALE G1/4"



ELBOW FITTING

TEE FITTING









Product code

CYLINDER MOUNTING BRACKETS - HFC-227 ea

Spare part brackets to mount HFC 227 ea FireDETEC® cylinder kits

KEY FEATURES

- Black powder-coated steel holder
- Stainless steel adjustable straps



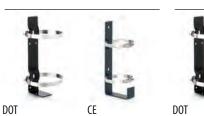
Different codes for DOT or CE systems

3 LB. / 1,36 KG.

7 LB. / 3,18 KG.

CE











Product code	029900169	029900192	029900171	029900193	029900170	029900194
Weight	1.2 lbs / 0,55 Kg.	3.6 lbs / 1,7 Kg.	1.2 lbs / 0,55 Kg.			
Height	11.7" / 300 mm	10.2" / 260 mm	11.7" / 300 mm	11.4" / 290 mm	12.48" / 320 mm	13.8" / 350 mm
Depth	3.22" / 85 mm	4.3" / 108 mm	3.22" / 85 mm	5.6" / 143 mm	4.49" / 115 mm	7.0" / 178 mm
Width	1.95" / 50.8 mm	1.2" / 30.5 mm	1.95" / 50.8 mm	1.2" / 30.5 mm	4.49" / 115 mm	1.2" / 30.5 mm

BALL VALVES FOR SENSOR TUBING

Low pressure Ball Valve for FireDETEC® sensor tubing





Product code	B07840004	B07840003
Inlet	male G1⁄4"	male G1/8"
Outlet	female G1/8"	female G1⁄8″

BALL-VALVE SECURITY LOCK

Safety device for preventing unintentional opening of the valve of the bottle during storage, transportation and installation. Can also be used to lock the valve in the open position when installed and armed.

Tamper evident security seal on the optional



Product code	026800040	029930000	027200007
Material	PP	Plastic and aluminium with electromagnetic sensor and wiring	PE

GASKETS

Spare part gaskets for air-tight seals	STEEL JOINT NITRILE BOND	STEEL JOINT NITRILE BOND	FIBER JOINT
	0	0	0
Product code	024100034	024100037	024100013
Diameter	For G%" thread	For G¼" thread	External: Ø 18 mm Internal: Ø 11,8 mm



PRESSURE RELIEF DEVICE

Spare Pressure Relief Device for Clean Agent Systems using FireDETEC® valve series B0701 & B0700.

G THREADS ARE PARALLEL THREADS ACCORDING TO ISO 228/1



KEY FEATURES

- Dedicated version for each agent type

CE

DOT

	For all CE cylinders	3lb	7lb - 14lb
Product code	029200091	029200091	029200088
Thread connection	G1⁄4"	G1⁄4"	G¼"
Burst pressure	480 psi/33bar	480 psi/33bar	600 psi/47bar

PROTECTION CAP

To protect the valve from impact

According to EN ISO 11117



Product code	B06200001
Height	184 mm
Connection	W 80 x 1/11"

- For CO₂ systems only
- Max cylinder weight (filled) : 60 Kg. / 132 lbs.



SPARE PARTS FOR VEHICLE ENGINE SYSTEMS

- Spare part components for the FireDETEC® Vehicle Engine System

FILLING ADAPTER G %"

FILLING ADAPTER G¼"

SAFETY SCREW







02951005
G 5%"

029510053 G 1/4"

023107028 M18 x 1,5













Product code

02	2500006	
Ø	14 mm	

026307280 M18 x 1,5 / G1/4"

024000357

fits item 026307280













Product code
Product code

029900150	
CALII	

02	29	90	00.	15	5	
		-	_			

B07830031

G%'

LP side

when not in use

VEHICLE NOZZLE PROTECTION CAP



Product code
Product code

028400055



INSTALLATION GUIDELINES



EQUIPMENT NEEDED:

- The FireDETEC® Kit
- Sensor Tubing
- Discharge Tubing
- Mounting Clips
- End of Line Device
- Tube fittings
- Drill
- Screwdriver
- Wrenches
- Tube Cutter
- Tube Bender
- Filling Adaptor
- Dry Nitrogen cylinder with regulator



Installation should only be done by qualified, trained personnel.

EASY 3 STEP INSTALLATION

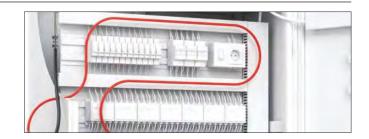
1. MOUNTING THE CYLINDER

Fix the bracket to a bulkhead, structural column or deck using four (4) $\frac{1}{4}$ bolts. Once cylinder is in place, tighten the bands so that the cylinder is secure. Orient the cylinder in the vertical position with the valve facing up and the gauge facing out and away from the wall for ease of inspection. The label and gauge must be clearly visible.



2. INSTALLING THE SENSOR TUBING

Because the tube is heat sensitive, it should always be placed above the potential fire source. For small enclosures, the tubing should be installed on the enclosure roof. Be careful not to kink or crush the sensor tube. The minumum bend radius is 4 inches / 100 mm for red tubing and 6 inches / 150 mm for black, yellow and grey tubing. Install clips every 18 inches / 450 mm (10 inches / 250 mm for direct systems) to hold tubing in place.



3. PRESSURIZING THE FIREDETEC® SENSOR TUBING

Charge the tube to 16 bar (240 psi) by connecting a dry nitrogen cylinder with a regulator to the filling adapter, attached to the far end of the sensor tube. Test for leaks.



A FULL LINE OF GAS CONTROL SOLUTIONS



COMPLETE SOLUTIONS FROM SOURCE TO PROCESS.

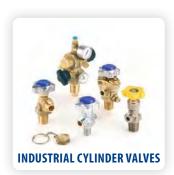
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CYLINDER VALVES	EQUIPMENT	FIRETEC	AUTOMOTIVE	LPG/SRG	MEDITEC	
						ı







































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MIDDLE EAST / AFRICA

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