



ROTAREX
FIRETEC



 **TRIPLESTAR**

**COMPLETE FIRE SUPPRESSION SYSTEMS
FOR COMMERCIAL KITCHENS**

NOVEMBER 2019

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TRIPLESTAR® systems are designed according to one or more standards. Each page clearly indicates the applicable approval certification. In addition, all Rotarex manufacturing sites comply with ISO 9001 quality standards.

* Components are certified only when used together in a properly configured installation
Product images are not contractual



COMPLETE FIRE SUPPRESSION SYSTEMS FOR COMMERCIAL KITCHENS

- ★ Easy / Flexible installation
- ★ Quick & Effective suppression
- ★ Highly Dependable: no electricity or moving parts
- ★ Reduces even the most critical kitchen fire risks
- ★ Kitchen Fire Suppression System tested and certified by LPCB

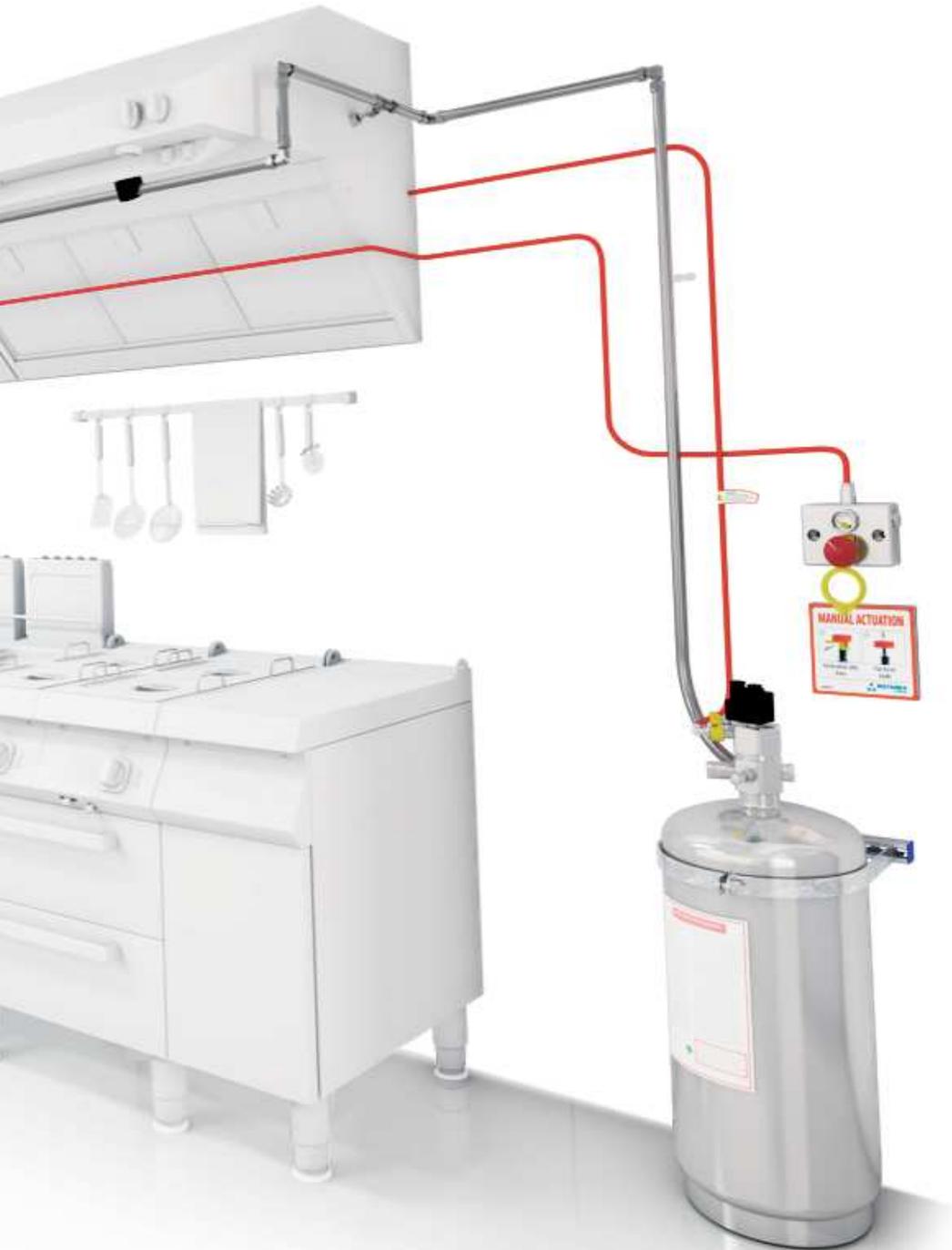


MINIMIZES RISK TO VITAL EQUIPMENT

- 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

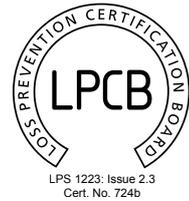
KEY FEATURES

- All system components available at Rotarex, one single supplier
- Available with liquid-based FireDETEC® F/K extinguishing agent
- Manual actuator included
- Supplied with robust grey FireDETEC® sensor tubing to withstand higher ambient temperatures
- Kitchen systems cylinders are standardly delivered unfilled
- Systems delivered with F/K extinguishing agent



IDEAL FOR THE PROTECTION OF:

- Grill
- Deep fat fryer
- Extraction hood
- Duct
- Griddle
- Wok
- Electric char-broiler
- Range top
- Lava, pumice or synthetic rock char-broiler
- Natural charcoal broiler
- Chain broiler



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.

*Red tubing for visualization only.
System is installed with grey tubing

9L FIRE SUPPRESSION SYSTEM PRE-ENGINEERED FOR COMMERCIAL KITCHENS



- ★ Ideal for small- and medium-sized commercial kitchens
- ★ 9L TRIPLESTAR system can protect 3 zones
(Ex: 2 cooking areas + 1 hood)



*Red tubing for visualization only.
System is installed with grey tubing

EVERYTHING YOU NEED TOGETHER IN ONE BOX

KEY BENEFITS

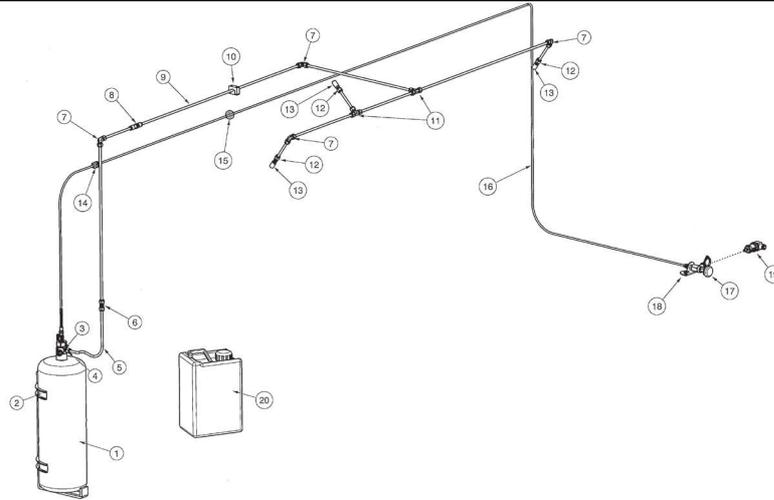
- ★ Pre-engineered system: no preliminary calculation needed
- ★ Pre-defined components quantities to fit on most installations
- ★ Order one article and get everything you need in one box!



SYSTEM CONTENTS



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	022720040	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

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	022720040	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)



WITH PISTON BLOCK ACTUATOR	
Complete kitchen system	Partial kitchen system (excluding discharge tubes and fittings)



Product code unfilled	B07503000	B07503001
Agent capacity	9 Liters	9 Liters
Number of nozzles	3	3
Cylinder volume	12,5 L	12,5 L
System approval	LPCB	LPCB
Cylinder approval	CE (PED)	CE (PED)
Operating Temperature	5°C to 50°C	5°C to 50°C
Working pressure	16 bar at 20°C	16 bar at 20°C
Sensor tubing color	Grey	Grey
Sensor tube connection	Standard	Standard
Valve with safety device	No	No

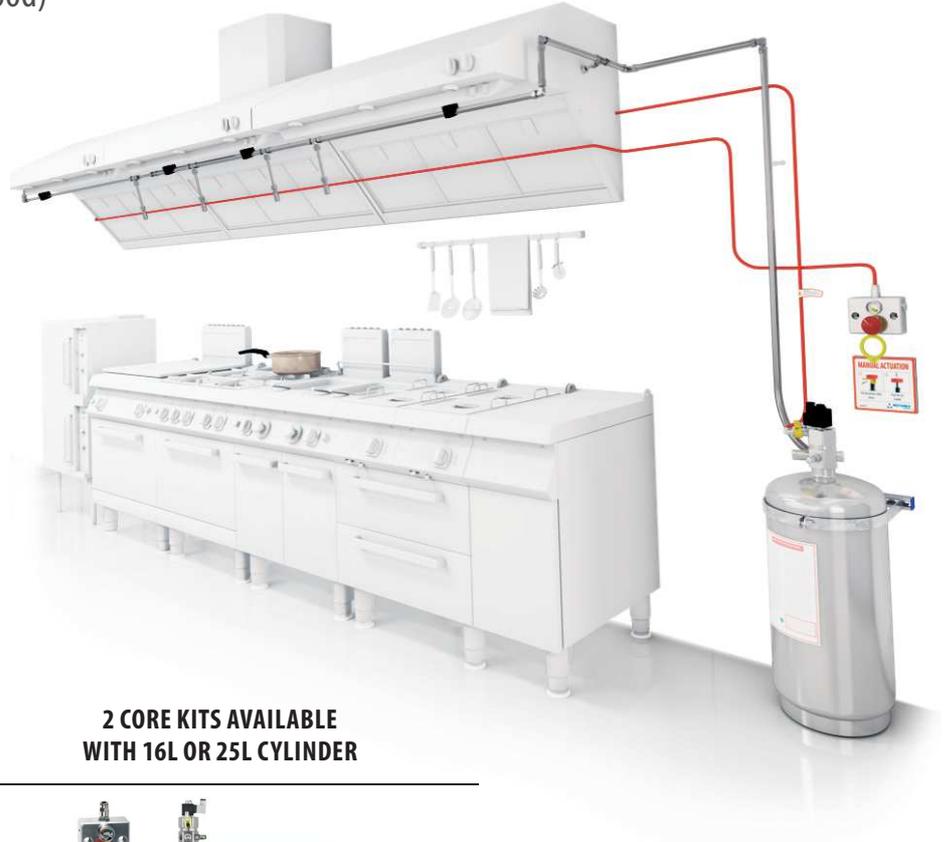
Product code unfilled	B07503002	B07503003
Agent capacity	9 Liters	9 Liters
Number of nozzles	3	3
Cylinder volume	12,5 L	12,5 L
System approval	-	-
Cylinder approval	CE (PED)	CE (PED)
Operating Temperature	5°C to 50°C	5°C to 50°C
Working pressure	16 bar at 20°C	16 bar at 20°C
Sensor tubing color	Grey	Grey
Sensor tube connection	Quick-fit	Quick-fit
Valve with safety device	Yes	Yes

16L & 25L FIRE SUPPRESSION SYSTEM ENGINEERED FOR LARGE COMMERCIAL KITCHENS

- ★ Ideal for large commercial kitchens
- ★ Up to 9 cooking zones protected
- ★ 16L TRIPLESTAR system can protect 4-6 zones
(ex: up to 5 cooking areas + 1 hood)
- ★ 25L TRIPLESTAR system can protect 7-9 zones
(ex: up to 8 cooking areas + 1 hood)

KEY BENEFITS

- ★ Build your own bill of material and cherry-pick your components
- ★ Choice between pneumatic and/or electromagnetic actuation
- ★ Much faster installations
- ★ Much faster calculation than conventional technologies



COMPLETE YOUR SYSTEM BY ORDERING THE FOLLOWING COMPONENTS SEPARATELY ACCORDING TO YOUR NEEDS



(see p.16)



(see p.12)



(see p.16)



(see p.15-16)



(see p.15-16)

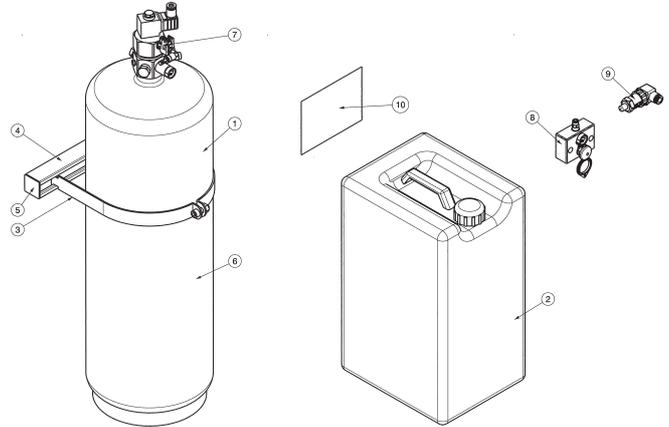
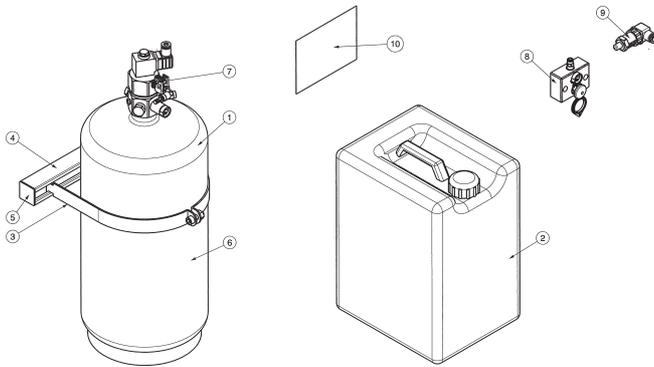


(see p.15)

KITCHEN CORE ASSEMBLIES

B07503005

B07503006



POS.	ART. NR	QTY	DESCRIPTION
1	B07013004	1	ILP assembly 16 liter (not filled)
2	020080164	1	Agent (16 liter canister)
3	024900451	1	Cylinder bracket
4	024900338	1	Wall mounting rail
5	024900322	2	End cap for mounting rail
6	028000091	1	Cylinder label
7	027200007	1	Tamper-evident seal
8	B04420150	1	Manual release device
9	028255048	1	Pressure switch
10	028000279	1	Set of labels

POS.	ART. NR	QTY	DESCRIPTION
1	B07013005	1	ILP assembly 25 liter (not filled)
2	020080156	1	Agent (25 liter canister)
3	024900451	1	Cylinder bracket
4	024900338	1	Wall mounting rail
5	024900322	2	End cap for mounting rail
6	028000091	1	Cylinder label
7	027200007	1	Tamper-evident seal
8	B04420150	1	Manual release device
9	028255048	1	Pressure switch
10	028000279	1	Set of labels

SPECIFICATIONS

WITH PISTON BLOCK ACTUATOR

16L core kit

25L core kit



Product code unfilled	B07503005	B07503006
Agent capacity	16 Liters	25 Liters
Cylinder volume	23 L	35 L
Cylinder approval	CE (PED)	CE (PED)
Operating Temperature	5°C to 50°C	5°C to 50°C
Working pressure	16 bar at 20°C	16 bar at 20°C
Sensor tubing color	Grey	Grey
Sensor tube connection	Quick-fit	Quick-fit
Valve with safety device	Yes	Yes

CYLINDER / VALVE ASSEMBLY | KITCHEN SYSTEM



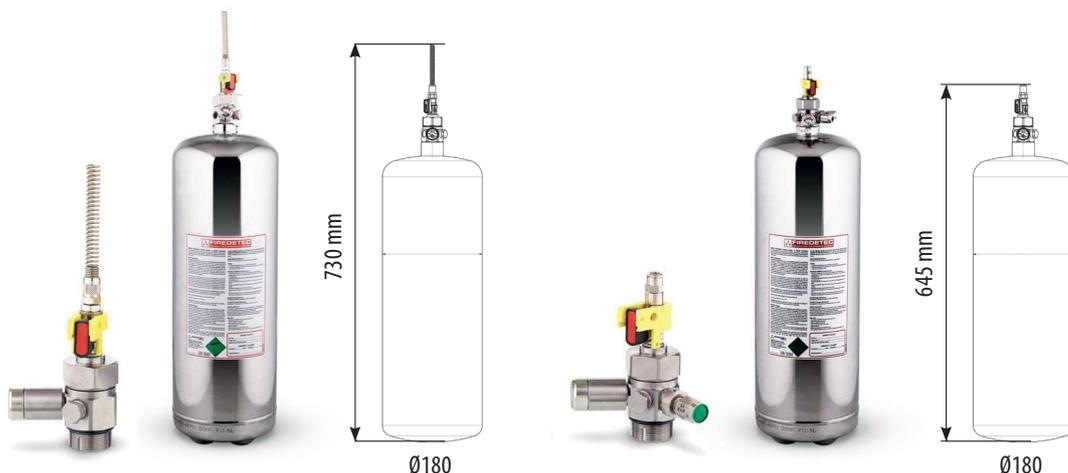
- For commercial kitchen installations
- Cylinder & valve assemblies that you configure yourself by choosing individual components / accessories
- Choose the sensor tube system, discharge system and accessories that fit your exact installation

CYLINDER / VALVE ASSEMBLY:

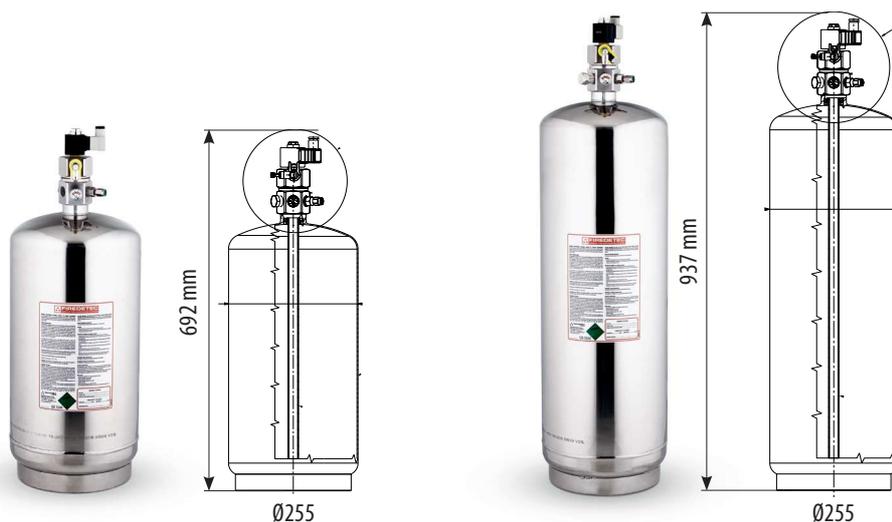
- Cylinder (unfilled)
- Valve
- Siphon tube
- Labels included (not stuck)

3 CYLINDER SIZES

- 9, 16 or 25 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.11)



	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. / valve 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



	B07013004	B07013005
Product code unfilled	B07013004	B07013005
Agent capacity	16 liters	25 liters
Cylinder volume	23 liters	35 liters
Cylinder approval	CE (PED)	CE (PED)
Cyl. / valve weight (empty)	11,6kg.	15,4kg
Cylinder material	Stainless Steel	Stainless Steel
Siphon tube	Yes	Yes
Sensor tube connection	Quick fitting	Quick fitting
Valve safety device	Yes	Yes

FIREDETEC® EXTINGUISHING AGENT REFILL

Refill canisters of extinguishing agent for specialty applications.

FIREDETEC® F/K



9 LITERS



16 LITERS



25 LITERS

Product code	020080157	020080164	020080156
Extinguishing agent	FireDETEC® F/K		
Applications	For commerial kitchen systems		

FIREDETEC® SENSOR TUBING - 6 mm

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

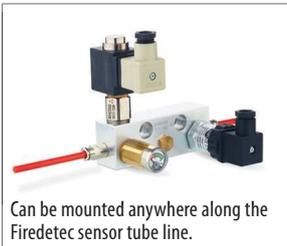
SENSOR TUBING FOR KITCHEN SYSTEMS



	10 meters	100 meters
Product code	B07800303	B07800301
Application	Specifically designed to withstand heat and grease conditions above kitchen cooking areas	
Ideal for	Professional Kitchens Zones at risk for grease fire	
Outside Diameter	Ø: 0.234" / 6 mm	
Inside Diameter	Ø: 0.156" / 4 mm	
Color	Grey RAL 1018	
Min. bend radius	5.9" / 150 mm	
Burst temperature	175°C	
Operating t° range	-30°C to 90°C	

PRESSURE SWITCH MANIFOLD

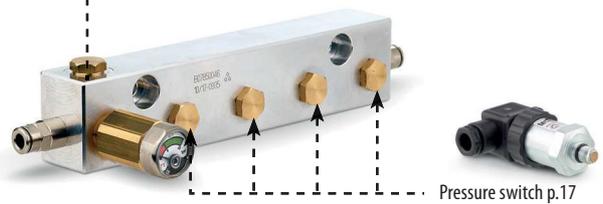
Used to add supplemental functionalities (pressure switch, solenoid actuator)



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

KEY FEATURES

- Ideal to send several signals on advanced installations
- Aluminium monobody design
- Integrated pressure gauge



SENSOR TUBE ATTACHMENTS

Secures sensor tubing securely in place.

SELF-ADHESIVE CLIP

for Ø 6 mm



SELF-ADHESIVE BINDING TIE



BINDING TIE



SCREWED CLIP



	B07860000	B07860005	B07860004	B07860002	B07860011
Material	Polyamide	Polyamide	Polyamide	Aluminium and chloroprene	
Attachment	Self-adhesive base	Self-adhesive base		screws (not included)	

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



Product code	B07831010	B07831006	B07831007	B07831005	B07831008	B07831003
Connections	0.234" / Ø 6 mm	0.234" / Ø 6 mm	0.234" / Ø 6 mm	0.234" / Ø 6 mm G $\frac{1}{8}$ " male	0.234" / Ø 6 mm G $\frac{1}{8}$ " male	0.234" / Ø 6 mm G $\frac{1}{8}$ " male
Material	Nickel - Plated brass	Nickel - Plated brass	Nickel - Plated brass			

STANDARD CONNECTION FITTINGS FOR SENSOR TUBING Ø 6 mm

Fittings to connect
FireDETEC® sensor tubing.

KEY FEATURES

- 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
Must be ordered separately p.58

Product code	B07830010	B07830002	B07830004	B07830000	B07830001
Connections	0.234" / Ø 6 mm G $\frac{1}{8}$ " male	0.234" / Ø 6 mm			
Material	Nickel - Plated brass	Nickel - Plated brass	Nickel - Plated brass	Nickel - Plated brass	Nickel - Plated brass

G THREADS ARE PARALLEL THREADS ACCORDING TO ISO 228/1

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

THROUGH PANEL PROTECTOR



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

END OF LINE DEVICES & ACTUATORS FOR SENSOR TUBING

To seal and charge the far end of the sensor tube.

PITSON BLOCK KEY FEATURES

- Includes: pressure gauge, sensor tube fitting, 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

CHOOSE FROM 2 AVAILABLE END CONNECTIONS



Standard



Quick connect

PISTON BLOCK



MANUAL ACTUATOR



Quick connect fittings	B04420150	B04420128
Standard connections	B04420144	B04420115
Tube connection	6 mm	6 mm
Length	3.15" / 80 mm	4.95" / 106 mm
Power		
Gauge scale	0 - 28 bar	0 - 20 bar
Charging port	YES	YES

DISCHARGE TUBING & PIPING

Discharge tubing for FireDETEC® indirect systems.

STAINLESS STEEL TUBE



STAINLESS STEEL TUBE



Product code	022700599	022700643
Diameter	Ø 8 mm	Ø 15 mm
Length	1 meter	1 meter
Fittings compatibility	single/double ring fittings	single ring fittings
Thread	-	-

DOUBLE RING FITTINGS FOR 8mm STAINLESS 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



ELBOW



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



STRAIGHT NOZZLE FITTING FEMALE



Product code	B07835029	B07835026	B07835038
Connection	Ø 8 mm	Ø 8 mm, G ¼" male	Ø 8 mm, G ¼" female
Material	AISI 316L	AISI 316L	AISI 316L

STRAIGHT FITTING MALE



Product code	B07835039
Connection	Ø 8 mm, G ¼" male
Material	AISI 316L

SINGLE RING FITTINGS FOR 8MM STAINLESS STEEL TUBING

Stainless steel fittings to connect to 8mm stainless steel discharge tube.

TEE



ELBOW



UNION



CROSS PANEL



NOZZLE



BRACKET



Product code	029170000	029160000	029510067	029510069	029510071	B07860006
Connection	Ø8mm	Ø8mm	Ø8mm	Ø8mm	Ø8mm ; G1/4" female	Ø8mm
Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	PA6.6
Max. pressure			Up to 160 bar (depending on tube)			

SINGLE RING FITTINGS FOR 15 MM STAINLESS STEEL TUBING

Stainless steel fittings to connect to 15mm stainless steel discharge tube.

TEE



ELBOW



UNION



CROSS PANEL



TEE



TEE



BRACKET



Product code	029160001	029170001	029510068	029510070	029170003	029170002	B07860007
Connection	Ø15mm	Ø15mm	Ø15mm	Ø15mm	Ø15 - Ø8 - Ø8 mm	Ø15 - Ø8 - Ø15 mm	Ø15mm
Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel
Max. pressure	Up to 160 bar (depending on tube)						

DISCHARGE HOSES

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

KITCHEN SYSTEM HOSE 9L



KITCHEN SYSTEM HOSE 16-25L



Product code	022720040	022720044
Length	600 mm	600 mm
Cylinder connection	8X1 Tube adapter	½" 14 NPT
Tube connection	Ø 8x1mm Tube adapter	Fitting for Ø 15 mm tube
Material	Stainless steel	Stainless steel
Max. working pressure	220 bar at 20°C	100 bar at 20°C

MOUNTING BRACKETS FOR DISCHARGE TUBING & PIPING

To secure discharge tubing in place.



Product code	B07860006	B07860007
for tubing	Ø 8 mm	Ø ¼"
material	PA 6.6	steel

DISCHARGE NOZZLES

Dispersion nozzles for TRIPLESTAR® systems.

KITCHEN NOZZLE

Class F Liquid agent



Product code	026200117
Orifice	1 hole x 2.7 mm
Dimensions	Ø13.5 mm x 25 mm
Connection	R¼" male
Material	Stainless Steel

PRESSURE SWITCHES

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

5 BAR



For discharge detection

12 BAR



For leak detection

Product code	028255048	028255059
Switch type	SPDT	SPDT
Fixture	M10 x 1	M10 x 1
Type	NO / NC	NO / NC
Electrical rating	V max: 240V I max: 3A	V max: 240V I max: 3A
Operation	5 bar ± 0.5 bar	12 bar ± 0.5 bar
Max pressure	60 bar	60 bar
Connection	DIN EN 175301-803	DIN EN 175301-803
O-ring material	EPDM	EPDM

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



Product code	B07850043
Audible signal	100 db
Power supply	9V Carbon zinc battery
Dimensions	115x136x53 mm

CYLINDER MOUNTING OPTIONS - KITCHEN SYSTEM

To mount the TRIPLESTAR Kitchen cylinder/valve assembly.

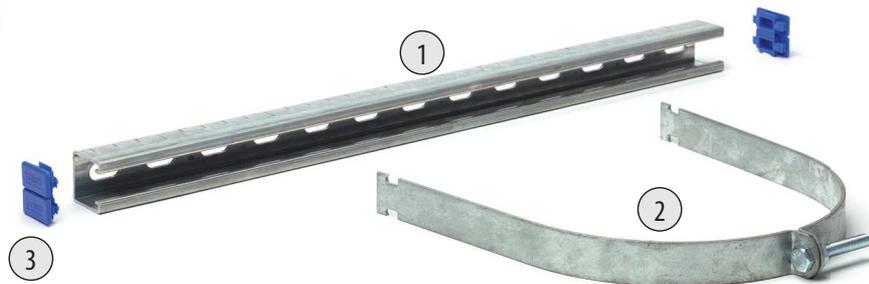
FOR 9L SYSTEM



Product code	024900401
Diameter	180 mm
Height	465 mm
Depth	213 mm
Width	-
Material	Powder-coated steel
Weight	2 Kg.

Stainless steel components for solid support and a long service lifetime

FOR 16 OR 25L SYSTEMS



1

WALL MOUNTING RAIL

Input	Length L	Product code
1 cylinder	350 mm	024900338

2

CLAMP FOR CYLINDER

Diameter	Product code
250-263 mm	024900451

3

END CAP FOR MOUNTING RAIL AND BRACKET

Product code
024900322

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

PROTECTIVE CABINET



	9L	16L	25L
Product code	029840030	029840030	029840030
Diameter	-	-	-
Height	750 mm	750 mm	1000 mm
Depth	250 mm	450 mm	450 mm
Width	350 mm	400 mm	400 mm
Material	Stainless Steel	Stainless Steel	Stainless Steel
Weight	4 Kg.	6 Kg.	9 Kg.

PRESSURE GAUGES

Optional and spare pressure gauges.

PRESSURE GAUGE FOR KITCHEN SYSTEMS



Product code	029720111
Suppression agent	FireDETEC F/K®
Connection	M10 x 1
Scale	0 - 28 bar
Dimensions	Ø 23 mm
Preset pressure	-

CYLINDER LABELS LANGUAGE PACKS

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

TRIPLESTAR F/K KITCHEN SYSTEMS



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

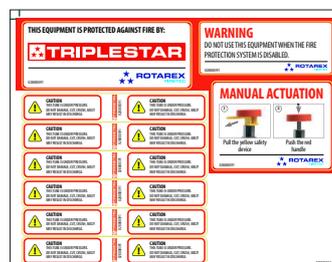
Language	ALL SIZES
English	028000091
French	028000150
German	028000151

Others languages available on demand

WARNING LABEL SETS

- Auto-adhesive safety stickers

FOR ALL SYSTEMS



Language	
English	028000391
French	028000280
German	028000281
Contains	6 tube warning stickers
	1 actuator instruction
	1 "equipment protected" sticker
	1 disabled warning sticker

Others languages available on demand

INSTALLATION TOOLS

Specialized tools to facilitate easier installation of TRIPLESTAR® systems.

SENSOR TUBE CUTTER



Razor pinch cutter for clean, square edges

SENSOR TUBE GRIPPING TOOL



Flexible rubber pad to grip sensor tubing

Product code

B07850001

024920014

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.	7,1 Kg.



KEY FEATURES

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

A FULL LINE OF GAS CONTROL SOLUTIONS



COMPLETE SOLUTIONS FROM SOURCE TO PROCESS.

ROTAREX is helping engineers worldwide to get better gas results: from ultra high purity production and medical care facilities to industrial and LPG applications, as well as alternative energy vehicles, fire suppression, diving, aerospace, cryogenics, laboratory, petro-chemical and welding. ROTAREX applies over 90 years of know-how and experience to custom design, develop and manufacture the high performance valves, regulators and fittings to suit your needs, all in one hand. Discover the difference ROTAREX can make in your world.

CYLINDER VALVES

EQUIPMENT

FIRETEC

AUTOMOTIVE

LPG/SRG

MEDITEC



ULTRA HIGH PURITY VALVES



MEDICAL VALVES & EQUIPMENT



INDUSTRIAL CYLINDER VALVES



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FIRE SYSTEMS**



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SYSTEMS**



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