

50 YEARS PROTECTING LIVES AND PROPERTY

















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KITCHEN PROTECTION



Common applications, When to use?

- Commercial kitchens
- Industrial fryers
- Restaurants
- Show kitchens
- Catering













KITCHEN PROTECTION



Hazard characteristics Why to use?

- Oil and fats
- High temperatures
- Hot surfaces
- High concentrations of fuels, flammable gases and products
- Gas supply
- Healthy oils: lower auto ignition temperatures





KITCHEN PROTECTION



Design

Why to use SIEX?

- ✓ We need fast action and great effectiveness
- ✓ Easy to clean → minimum downtime
- ✓ Non-toxic, harmless
- ✓ Additional devices (safety): pneumatic gas shutdown
- ✓ Growth control: no fire spreading

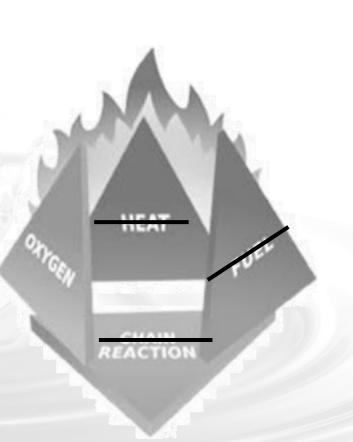


THE PRODUCT: TOTAL K



TOTAL K

- Wet chemical, aqueous solution
 - Chain reaction break
 - Heat reduction
 - Saponification: soap/foam is produced





THE PRODUCT: TOTAL K



TOTAL K

- FLEXIBILITY
 - Range of cylinders: 6, 16 and 25 liters
 - Nozzles adapted to each hazard
 - Detection:
 - electrical,
 - > thermal-mechanical,
 - thermal-pneumatic,
 - manual (direct / remote)
 - Suitable for both new and old kitchens → Renovations



DESIGN



TOTAL K: Design steps

- Pre-engineering system
 - Standard: NFPA 17A
- UL listing pending (2018)



DESIGN



List the hazards and choose the nozzles

(5 types, adapted to each hazard)

Nozzle type	Aplications	Caudal / Flow unit
TKD1C	Ducts, radiant gas	1
TKD2G	4 burners, griddles (L),	2
TKD2K	Fryer, grill, griddles (M)	2
TKD15C	Big ducts, coal broiler,	1,5
TKD1P	hood (3m), griddles (S), 2 burners, 3 burners (2No.)	1

2. Calculate total agent & choose the cylinder

TK-6	TK-16	TK-25
5	13	20

3. Choose detection

- Fuel & energy supply must be cut down
- Gas shutdown recommended

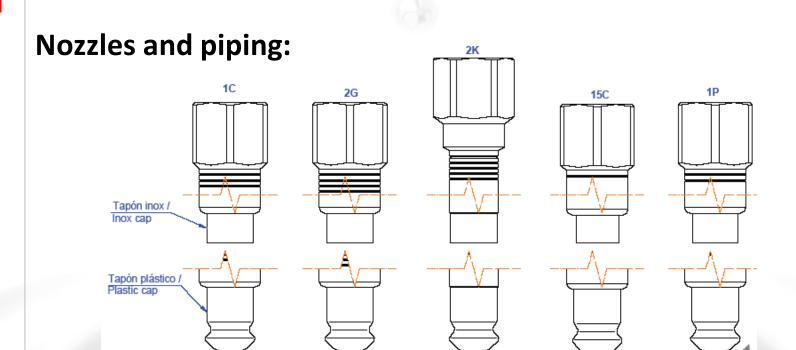








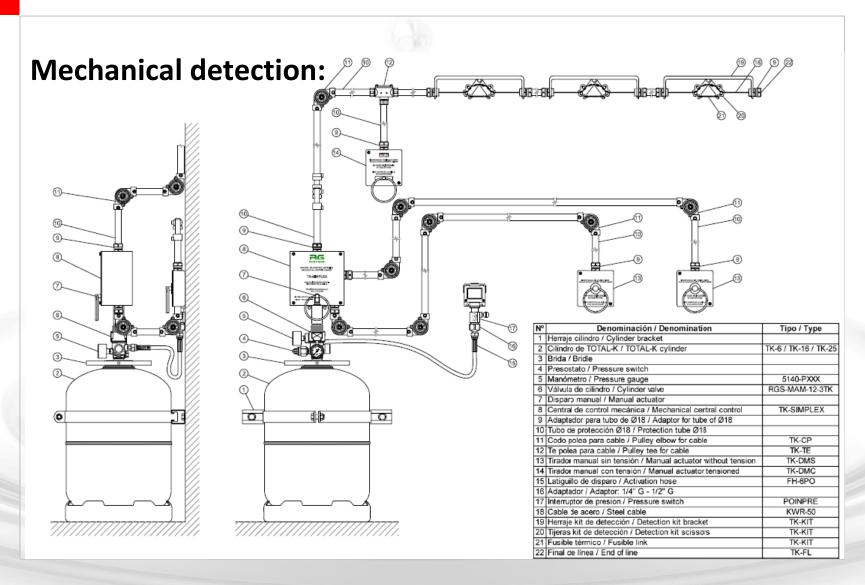




Numero de caudales / Number of caudals	Acero negro Tamaño tubería /	Acero inoxidable Tamaño tubería /		
Number of Caudais	Black steel - Pipe size	Stainless steel - Size pipe		
1 – 2	1/4"	- cm		
1 – 11	3/8"	Ø ext. 15 mm		
12 – 18	1/2"	Ø ext. 18 mm		
18 – 30	3/4"	Ø ext. 20 mm		
30 - 48	1"	Ø ext. 25 mm		

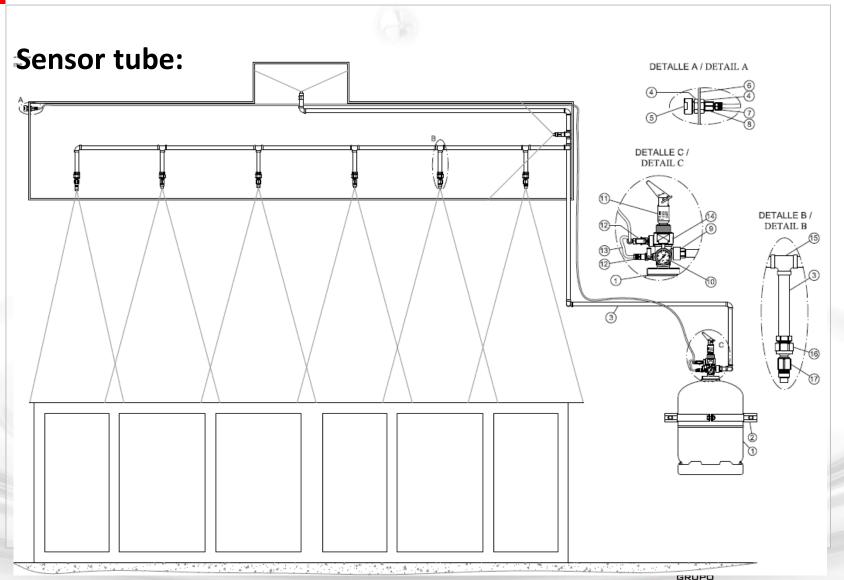




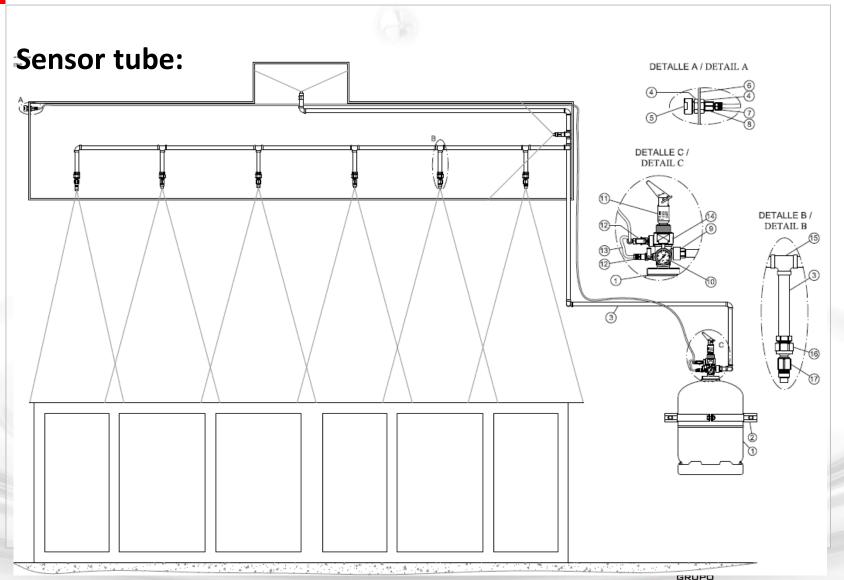








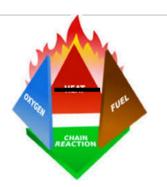




OTHER SYSTEMS



- Carbon dioxide:
 - Toxic for humans
 - Local application system
- Water mist
 - Expensive
 - Local application
- Other wet-chemicals:
 - Each manufactures has its how salts mix: different effectiveness.
 - Ansul, Pyrochem, Kidde, Amerex, Minimax (foam)











THANK YOU FOR YOUR ATTENTION

