

50 YEARS PROTECTING LIVES AND PROPERTY





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- *I. Kitchen protection*
- *II.* The product: Total K
- III. Design
- IV. Components



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













Design Why to use SIEX?

- We need fast action and great effectiveness
- ✓ Easy to clean \rightarrow 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



REACTIO

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



KOMTES

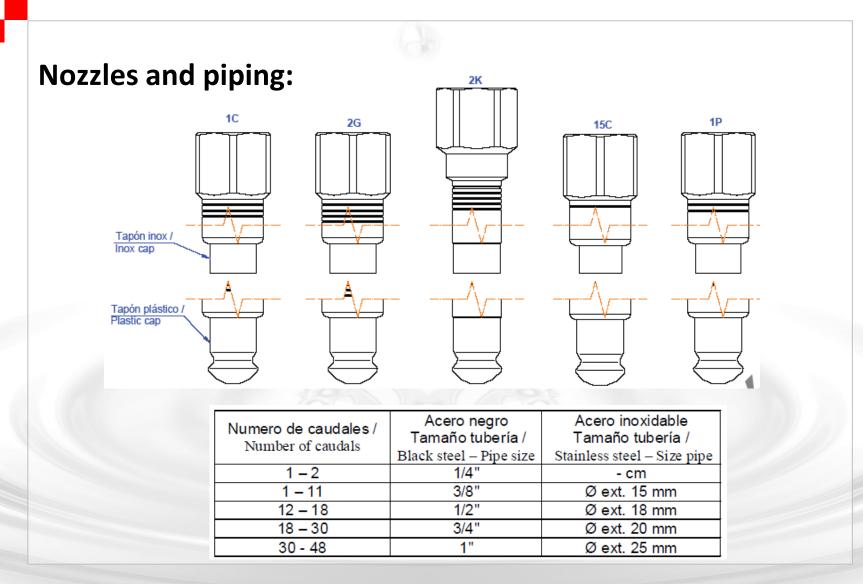
 List the hazards and choose the nozzles (5 types, adapted to each hazard)

2. Calculate total agent & choose the cylinder

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
ТК-6	TK-16	TK-25
5	13	20
	Sensor tube	fuse
sensor		-

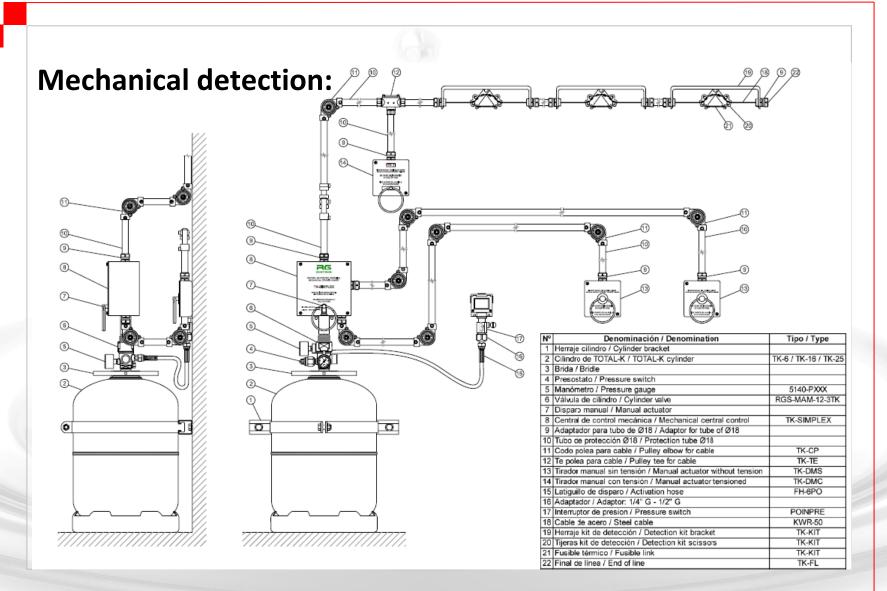
- 3. Choose detection
 - Fuel & energy supply must be cut down
 - Gas shutdown recommended





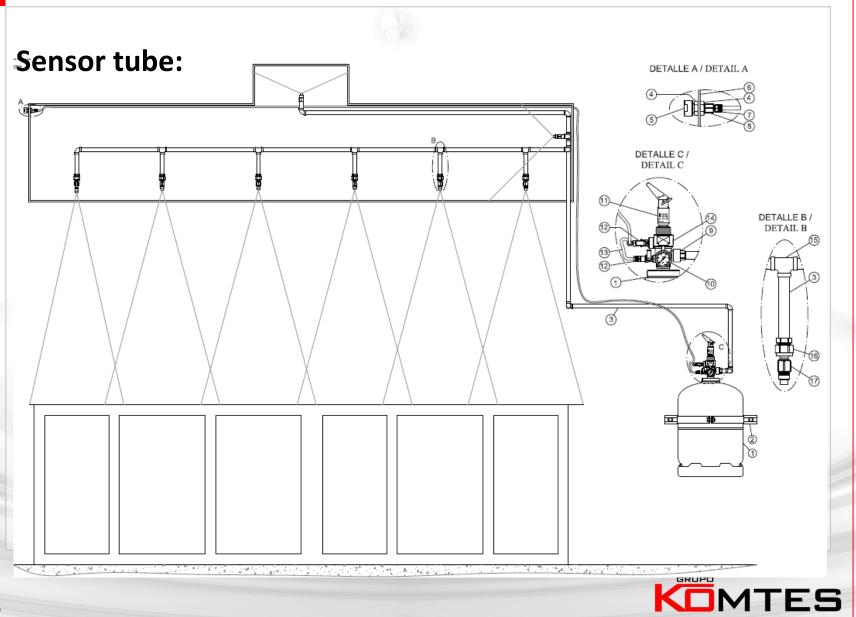




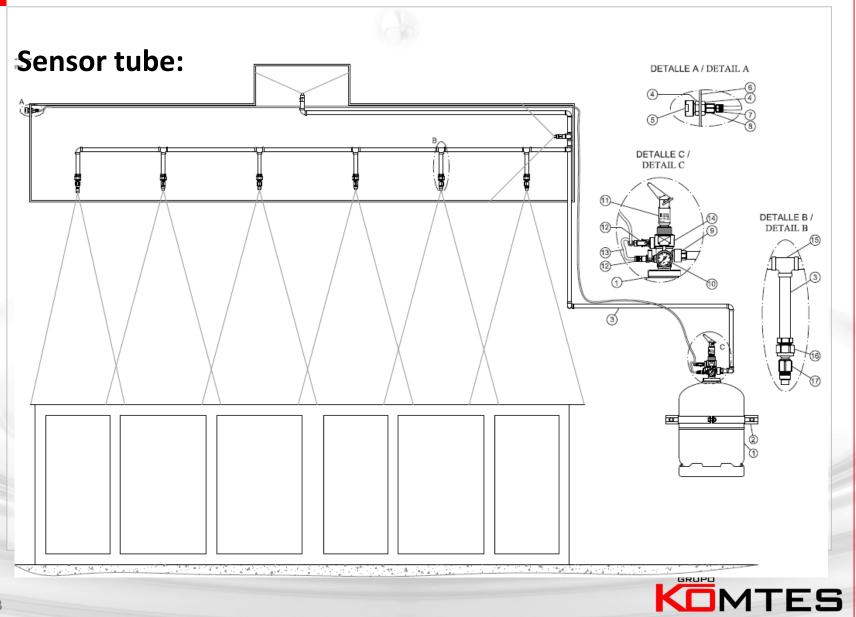










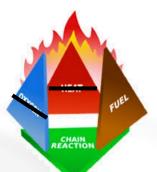


OTHER SYSTEMS

- 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)



SIC











THANK YOU FOR YOUR ATTENTION

