

C A T A L O G

F I R E E Q U I P M E N T S

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Fire extinguishers - Accessories for fire extinguishers - Refilling machines
Chemical extinguishant products - Fire hose, cabinet & accessories - Fire doors
Fixed installations HFC 227, Nytrargon, Powder, Sprinkler, CO2, Foam, Detection systems
Safety equipments



a.b.s. s.r.l.

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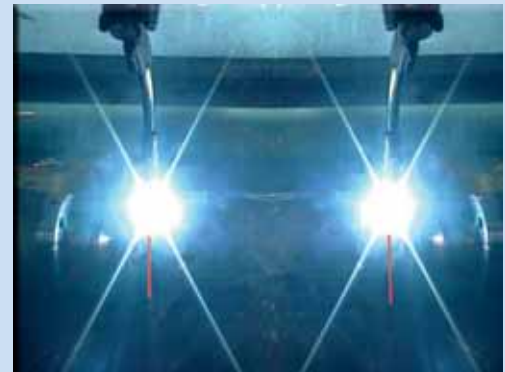
C



M

P

Two large factories located at MILAN at side of highway



a.b.s. was founded by highly qualified staff with thirty five years experience in the national and international worldwide market.

First in Italy to receive CE PED 97/23 across the range, and also the first ever to obtain the approval of fire extinguishers according to European regulations EN3.7 and EN 1866.

Active in fire protection, gaining considerable success, offering the clients a full range of products.

a.b.s. is always looking to new markets and technological innovations, and its organizational structure enables best solutions to any requirement.

The range in which **a.b.s.** works varies from the fire

extinguisher, cylinders CE mark PED and T-PED or HFC and foam bladder tanks, skid mounted units, fix installations, refilling machines, fire hoses and hose reels. Very active in inert gas systems and HFC 227, UL Listed and accepted by EPA extremely safe, without any environmental impact, and no time limit on use, particularly suitable for the protection of CED, archives museums, etc. In order to consolidate its market presence **a.b.s.** has focused on "quality" of their products and services. Top quality products are recognized from the market and a considerable production is exported in most European countries as well the Middle East, Asia, Africa, South America.

3500 articles in stock, fast delivery



Trademarks: ABS FIRE FIGHTING SEALFIRE, NYTRARGON, FIREKILL, EASYFIRE, PYROKEY, FOAMEXT, NOFLAMES, SECUREBREAK are registered and protected. Any improper use if not authorized will be prosecuted according to the law.

We reserve the right to make technical changes and improvements to the products without prior notice. The customer must clearly require to be informed at the order of any visual changes, and dimensional techniques.



A N Y

A4, connecting west to East North ITALY



Owing to the modern plant and machinery **a.b.s.** has the ability to produce on customer request from the smallest fire extinguisher to the largest equipment and fix installations. To achieve these objectives **a.b.s.** strictly follow directions of Quality System, certified by the RINA Italian Naval Register in according to EN ISO 9001 for manufacturing of all the range of products.

Q U A L I T Y



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POWDER FIRE EXTINGUISHERS

APPROVED EN 3.7

DESIGNED AND MANUFACTURED IN ITALY



ABC Powder (made in Germany) certified ISO 9001 and EN 615 with superior quality.

Cylinders made in our company, sand blasted with metallic sand and painted with epoxy-polyester powder Red color Ral 3000 resistant to all weather conditions and to the ultraviolet rays.



Model 13166 tested and approved EN3.7 by MPA of Dresden in Germany.

NEW



100% Made in Italy

Picture shows 6 KG 13166



43 233



ABC Powder (made in Germany) certified EN 615 with superior quality raw materials with strict control.



13166

Cylinder

Manufactured according to EN 3-8 and DIR 97/23/EC, welding process according to the EN 288 / EN 1418. High quality steel, deep sand blasted and painted with epoxy-polyester powder red color Ral 3000 resistant to all weather conditions and to the ultraviolet x-rays.

Valve M30x1,5 squeeze lever

Brass chromed, marked CE as directive 97/23/EC. With safety valve and complete with a green safety seal to improve the optical check from far. Only a simple glance is enough to check if the extinguisher has been tampered.

Manometer

Made in brass, German design by EBUR, Ø 23 or 35 mm, the best quality available in the market.

Discharge hose

Highly flexible hose made in EPDM rubber with an excellent resistance, manufactured from selected synthetic materials, complete with metal discharge nozzle.

Powder

Our partners are prestigious companies such us Caldic Furex and Total (Germany), Ruhl, certified ISO 9001 EN615 with superior quality raw materials.

The basic components of dry powder are ammonium phosphate and ammonium sulphate with special silicone additives enabling easy discharge and avoiding any caking process.

Dry powder is not corrosive, not abrasive, not toxic for humans and animals.

Note: for refilling is not suggested to use other kind of powder.

Certificate of conformity

Supplied in a carton box, instruction of use, guarantee for the consumer, declaration of conformity.

Magnetic hose holder

20104



 Efficacious with high performance, professional maintenance, recommended.

Type of powder

- "ABC"

(mono ammonium phosphate)
Several MAP grade

- "BC"

(Sodium bicarbonate)
(Karate)
(Purple K)
(Monnex)
(Potassium bicarbonate)

- "D" metal fires

stainless steel
and anti-magnetic
available.

Optionals



Manometer 35 mm



Magnetic hose holder



Metal hose holder ring



Steel foot



Plastic foot

1-2-3-4 Kg Dry powder ABC - STORED PRESSURE - EN 3.7

1 Best quality dry powder utilize a specially fluidized and siliconized mono ammonium phosphate dry chemical (MAP) certified EN615.
 It chemically insulates Class A fires by melting at approximately 170°C and coats surface to which it is applied.
 It smothers and breaks the chain reaction of Class B fires and will not conduct electricity back to the operator.
 Excellent on class C fires.

- ✓ Cheap, efficacy, multipurpose.
- ✗ Dirty, it requires hard work for cleaning after use.
Low visibility during discharge.

German Powder
EN615
Best quality



13111

Kg 1

8 A
34BC



13122

Kg 2

13 A
113BC



13123

Kg 2

13 A
89BC

With wire bracket



13131

Kg 3

21 A
144BC



13142

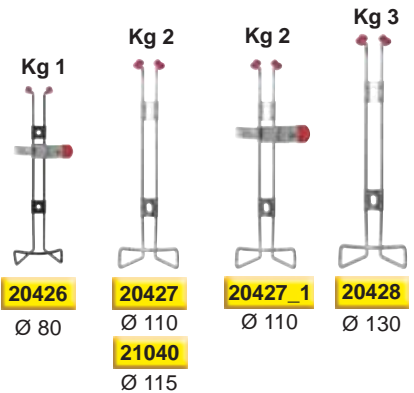
Kg 4

27 A
183BC



Standard
wall bracket

Wire brackets



Bracket for car or truck



Code	Kg Powder	Class of fires	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallets 80x120	
								Q.ty	kgs
13111	1	8A 34 BC	85	2	335	4	7"	576	1.150
13123	2	13A 89 BC	110	3.3	370	5	12"	288	1.000
13122	2	13A 113 BC	115	3.1	310	5	14"	240	860
13131	3	21A 144 BC	130	5.1	425	5	16"	132	670
13142	4	27A 183 BC	140	6.8	485	5	16"	132	910

6-9-12 Kg Dry powder ABC - STORED PRESSURE - EN 3.7

Products for commercial and industrial use in 3 different capacity: kg 6 - kg 9 - kg 12.



German Powder
EN615
Best quality



100% Made
in Italy

Manometer 35 mm



21265 Hose spring



20104 Magnetic holder



Plastic foot

21048 Kg 6

21049 Kg 9/12



Hose belt
20480 Universal



13162

34 A
233BC

13160

43A
233BC

6 Kg

13166

43 A
233BC

13169

55 A
233BC



9 Kg

13192

55 A
233BC

12 Kg

13172

55 A
233BC

Code	Kg Powder	Class of fires	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallets 80x120	
								Q.ty	kgs
13162	6	34A 233 BC	160	9,7	600	7	18"	72	745
13160	6	43A 233 BC	160	10	530	7	17"	72	750
13166	6	43A 233 BC	160	10	530	7	17"	72	750
13169	6	55A 233 BC	160	10	570	7	17"	72	755
13192	9	55A 233 BC	190	14	600	7	17"	40	580
13172	12	55A 233 BC	190	17.5	660	7	18"	40	730

ESTORIA MODEL TOP QUALITY - EN 3.7



Cylinder increased, better to have a uniform discharge and jet lenght.

Kg 6

13163

34 A
233BC

20052

Wall brackets



Back hook, ensure better stability. Large capacity cylinder (8.4 Lt) benefits for the longer jet and constant pressure, and foot without welding ensure insulation from ground avoiding bottom part under pressure to suffer corrosion.

20523 Large manometer



Gauge Bourdon 40 mm, thread npt unmovable.

21815 Valve M 45x1.5



Ø 45 mm
Best inspection a refilling

German Powder
EN615
Best quality

Foot and bottom manufactured in a single pressing process.
Will never rust.



21162

Check valve
Check valve + locked seal.

Swivel neck ring

21161

Safety valve preassembled. Bursting disc fast release.



Code	Kg Powder	Class of fires	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallets 80x120	
								Q.ty	kgs
13163	6	34A 233 BC	160	10,5	610	7	18,5"	72	745

6-9-12 Kg Dry powder ABC INTERNAL CARTRIDGE

1



Optional squeeze valve

Kg 6

13167

34 A
233BC



Spare part

20131 for 13167

20208

for 13194 - 13173

kg 6 - kg 9 - kg 12

Description

With CO2 internal cartridge professional and allows a better maintenance.

German Powder ABC EN 615.

Fire extinguishers with internal cartridge respect to the stored pressure offer several advantages.

Filling cap 74 mm allows an easy inspection for the powder and a better check for the weight of the CO2 internal cartridge.

Widely used in environments where it is necessary a professional maintain and a visual check for the state of powder extinguishant.



20052 Wall bracket

Hook is welded on the back of cylinder.

100% Made in Italy



Code	Kg Powder	Class of fires	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallets 80x120	
								Q.ty	kgs
13167	6	34A 233 BC	160	10.7	470	7	18"	72	795
13194	9	55A 233 BC	190	16	545	7	19"	40	670
13173	12	55A 233 BC	190	18.5	605	7	19"	40	790



Certified by MPA of Dresden in Germany.

6-12 KG Special dry powder BC High risk

Refineries, military airports, department stores flammable.



Optional squeeze valve

100% Made in Italy



Kg 6

13168

233BC



Spare part

20131 for 13168 - 13610

20208 for 13175

BC PURPLE K 90% EN 615

Basic component is Potassium Bicarbonate, increased capacity for extinguishing flammable liquids and gases. Typical applications in refineries, risks of oil, military risks.

BC KARATE RÜHL EN 615

Basic component is Potassium Sulphate, increased capacity for extinguishing flammable liquids and gases. Typical applications in refineries, risks of oil, military risks.

Code	Kg Powder	Class of fires	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallets 80x120	
								Q.ty	kgs
PURPLE K BC DRY POWDER									
13168	6	233 BC	160	10.7	470	7	18"	72	795
KARATE BC DRY POWDER									
13610	6	233 BC	160	10.7	470	7	18"	72	795
13175	12	233 BC	190	18.5	605	7	19"	40	790

Technical data are subject to modification for improvements without prior notice

9 Kg MONNEX Special powder BC - High risk



Optional squeeze valve

Kg 9

13193

233BC



20052 Wall bracket

Hook is welded on the back of cylinder.



Spare part

20300

Dry Powder produced in England

100% Made in Italy 

Description

With CO2 internal cartridge professional and allows a better maintenance.

English powder, MONNEX EN 615 .

Basic component are Potassium Sulphate and urea, Superb and excellent skills for extinguishing flammable liquids and gases.

Typical applications in refineries great risks, risks of oil, airports, power plants and nuclear weapons.

TOP BRAND, known as the best for high risk: Refineries, military airports, flammable department stores.

MONNEX DRY POWDER

Code	Kg Powder	Class of fires	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallets 80x120	
								Q.ty	kgs
13193	9	233 BC	190	16	605	7	19"	40	670

ABC Powder with EXTERNAL CARTRIDGE CO2



Kg 6

13611

34 A
233BC

20052 Wall bracket



Hook is welded on the back of cylinder.



Spare part

20201

100% Made in Italy 

Description

Professional fire extinguisher with CO2 external cartridge allows a better maintenance and a periodic check for the powder.

The external cartridge is easy to remove for a periodic check control of the weight. Filling cap 74 mm allows an easy inspection for the powder.

German Powder ABC EN 615.

Code	Kg Powder	Class of fires	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallets 80x120	
								Q.ty	kgs
13611	6	34A 233 BC	160	12	560	7	17	40	730

SEALFIRE FIRE EXTINGUISHERS



APPROVED EN 3.7 Water + additive

DESIGNED AND MANUFACTURED IN ITALY

Ideal for public places, lodges, stores, airports, supermarkets, hotels, etc. etc. The chemical dry powder does not allow good visibility during discharge and can create panic, foam instead is the opposite.

Sealfire allows full visibility, it has longer discharge time, and the sealing effect protect against flash back.

Special spray nozzle, allows use under electricity limited at 1,000 Volt without danger, while tested at **35,000 Volt** according to EN3/7 European Standard.

Considered environmentally friendly according to OECD standards and DIN ISO 9688, > 90% in 28 days. **Free for PFOA (acid perfluorottanic)** Certified laboratories Bilacon, Germany.

The cylinder is internally coating PLASTCOAT which could be guaranteed 2 years against corrosion.

Optional: Stainless steel cylinder



100% Made in Italy



Description

It 's the most popular in Great Britain, USA and in France > 65% of the market. The extinguishing charge is a mixture of 74% water and 26% of SEALFIRE ABF® an additive concentrate.

Best result against fires of wood, textiles, paper and very efficient for flammable liquid fires.

The special spray nozzle, allows use under electricity limited at 1.000 Volt without danger, while tested at 35.000 Volt according to EN3/7 European standard.

SEALFIRE ABF® forms a thin film that floats on flammable liquid, quickly turns and prevents re-ignition of the fuel because it insulates the contact with oxygen.

The cylinder is internally coated PLASTCOAT which is guaranteed 2 years against corrosion.

Available Stainless steel cylinder guarantee 5 years against corrosion.

The additive is also called A.F.F.F. Acqueous Film Forming Foam. They offer several advantages over the fire extinguishers Powder:

- **Longer time of discharge!**
- **Visibility the entire time of discharge**
- **Not dirty! Water + additive**
- **Ecological, biodegradable to 99,8%**

Sealfire ABF®

Official fire test carried out by professional fireman as EN 3.7 233 B 6 Lt Sealfire® 1 minute preburning 1000° C terrifying hot

5 seconds

Test with Epthane according to EN3.7 Welded sheet steel circular 233 B diam 3 mt. After 60" ignited, discharge.

A terrifying hot 1000°C!



10 seconds

After only 10"seconds. Flames are almost down due to sealing effect.



15 seconds

After 15 second. Sealing effect is complete. Reignition is no more possible. **EXTRAORDINARY!**



Control panel for fire training water/foam fire extinguishers



For test and fire training.

Allows you to run training courses at customer sites and training without any danger to personnel. With safety switch, indicator lights, complete with power cables.

Package includes power cables

Power Cable connection supplier 220 V.

Power Cable connection supplier 380 V.



98070

Test on an electrical voltage to 380 Volts to 1 m away, no problem of electric shock.

6 - 9 lt for offices, hotels, hospitals, airports, schools, factories, supermarkets, garages.



100% Made in Italy

Description:

The Sealfire ABF® is a universal product to turn off any kind of material burned. Quick off, it forms a film on flammable liquid, preventing re-ignition. Strong cooling. Easy to use, lightweight, handy, soft jet, total visibility, zero risk. In Northern Europe is the most common fire extinguisher, over 65%!
The cylinder is internally coated PLASTCOAT which is guaranteed 2 years against corrosion.

Optional: Stainless steel cylinder

- ✓ Cheap, efficacy, visibility, extremely low environment impact, very easy to use, almost zero damages after discharge. **Free from PFOA (acid perfluorottanic)**
- ✗ Not efficient on gas fire class C. In this case the rule provides to close the source of gas, in order to avoid explosions for the formation of explosive mixtures.

Sealfire ABF®

The additive is also known as AFFF Acqueous Film Forming Foam. Ideal for offices, hotels, museums, archives, factories, shops, laboratories, home, garage, ecologic replacement for the halon 1211.

Non conductive
Laboratory tests
at 35,000 Volts

The Sealfire ABF® respects
the environment
is clean and ecological

CLEAN

74% water premixed with
26% ABF
(1% Sealfire X + 25% Sealfire A)

BIODEGRADABLE

OECD > 90/28 days,
DIN ISO 9688.

Free from PFOA
(acid perfluorottanic)



Special spray nozzle from the jet is not electricity conductive



21048 Kg 6 - Ø 160

Non corrosive

21049 Kg 9 / 12 - Ø 190

20480 Universal



PVC coating- no corrosion



Plastic foot



Plastic belt for hose



Stainless steel Aisi 304

13365 Model with extending nozzle

Code	Sealfire® lt	Class of fires	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallets 80x120	
								Q.ty	kgs
13363	6	43A 233B 75F	160	10.3	570	5	30"	72	755
13363_1	6	43A 233B 75F	160	10.3	570	5	30"	72	755
13396	9	55A 233B 75 F	190	15	635	7	38"	40	640
13365	6	13A 113B 75F	160	10.3	570	5	38"	72	755

6 Lt Foam Sealfire ABF-30 STORED PRESSURE

Special characteristics, components, design and performance.

100% Made in Italy



Gauge, fixed with Loctite Manometer made in brass Ø 35 mm, membrane, German technology.

13366

Lt 6

34 A
233 B



75F
For oils in restaurants and kitchens

Large capacity cylinder (8.4 Lt) benefits for the longer jet and constant pressure.

20052

Wall brackets



Back hook, ensure better stability.

Foot without welding ensure insulation from ground avoiding bottom part under pressure to suffer corrosion.

21815_1 Valve M45x1.5

Valve Ø 45mm, with swivel female neck ring, best inspection and refilling.



Check valve
Check valve + locked seal

Foot and bottom manufactured in a single pressing process.

Will never rust.
Internal corrosion coating, guaranteed 2 years.
Optional stainless steel.



21161_1

Safety valve preassembled.



Code	Sealfire ABF® Lt	Class of fires	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallets 80x120	
								Q.ty	kgs
13366	6	34A 233B 75F	160	10.3	600	5	30"	40	640
13366_1	6 (-30°)	34A 233B 75F	160	10.3	600	5	30"	40	640

Sealfire S® for home and small shops

Description

The water fire extinguisher! has a good location in the houses (or is suitable in the houses)
The Sealfire S® is a universal product to turn off any kind of fire. Great for cooking oil fires caused by carelessness that easily creates combustion at about 330° C.
Live saving accessory for housewife (or for home).
Very good and without any danger of electrical conduction, in the event of fire of television and computer appliances.
Easy to use, lightweight, handy, soft jet, total visibility, zero risks, save lives.
Polyethylene inner lining, 2 years guarantee.
Low environmental impact OECD>90/28 days, much less a wash of some household detergents.



Cheap, efficacy, visibility, extremely low environment impact, very easy to use, almost zero damages after discharge. **Free from PFOA (acid perfluorottanic)**



Not efficient on gas fire class C
In this case the rule provides to close the source of gas, in order to avoid explosions for the formation of explosive mixtures.



For oils in restaurants and kitchens



Lt 2

13320_30

5 A
34 B



Sealfire ABF-30®
(-30° +60° C)



Sealfire®

DIELECTRIC

Lt 2

13320

8 A
55 B



Lt 3

13331

34 A
144 B

Sealfire S®

Class F fires involving deep fried oils and fats, generally in restaurant kitchens etc.
This products can not be extinguishing with Powder, CO2 Carbon Dioxide.
The Sealfire S® settles softly on flammable liquid and floats preventing re-ignition.

Code	Sealfire® Lt	Class of fires	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallets 80x120	
								Q.ty	kgs
13320	2	8A 55B 40F	110	3.75	405	3	12"	288	1.000
13320_30	2	5A 34B 5F	110	3.75	405	3	12"	288	1.000
13331	3	13A 144B	130	5.2	425	4	16"	132	670

Fire extinguisher - Water Sealfire® AFFF - INTERNAL CARTRIDGE - EN 3.7

Internal cartridge CO2

Description:

Foam Sealfire AB is the best available product for top performances in fires of class A, class B and also excellent in class F deep frying oils and restaurants kitchen fats.

Models with internal cartridges allow professional and easy maintenance. **Sealfire AB** it is a mixture of the **Sealfire S** with additives **Sealfire A** for top performances in all fires **A,B,and F** frying oils simultaneously. PLASTCOAT gives 2 year guarantee against internal corrosion

Optional: antifreeze -30°C for cold environments zones.

Optional: Stainless steel cylinder.

Optional: Sealfire® AB available premixed

Sealfire A and Sealfire S available in jerry can of 20 Kg.



6 / 9 Lt

6 Lt

13367

75F

34 A
233B



9 Lt

13394

75F

34 A
233B



Spare part

20177



Foam refilling cartridge

21170_1 Sealfire A® for 6 lt

21170_2 Sealfire A® for 9 lt

100% environmentally friendly additive class A. Greatly potentiates the effect on the wood, textiles, paper, etc. ..

See book operation and maintenance



33397 Sealfire S®

Spare part 1x6 and 2x9 lt foam floating internal cartridge.



Lifetime at least 5 years. The diam is 4,5 cm height 19 cm. The seal breaks when CO2 cartridge operated and it mix immediately with water

Code	Sealfire® lt	Class of fires	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallets 80x120	
								Q.ty	kgs
13367	6	34A 233B 75F	160	11.5	550	5	24	72	828
13394	9	34A 233B 75F	190	15	550	5	35	40	600
13394_1	9	34A 233B 75F	190	15	550	5	35	40	600

Fire extinguisher LIFEWATER® - LT 9 -100% Biodegradable - EN 3.7

Stored pressure Premixed

Description:

LIFEWATER is a special additive added to pure water which improves performances in fires of class **A** such as, paper, textiles, woods. Typically used in schools, hotels, hospitals.

It is totally clean, without foam, **100% biodegradable** and zero pollution.

Fully respect the environment.

The special nozzle discharges very fine drops of water, and has passed EN3 electricity conductivity test as EN3; suggest use until 1000 volt without any danger.

All fire extinguishers with Foam SEALFIRE or LIFEWATER, have the cylinder with internal coating PLASTCOAT which is guaranteed 2 years against corrosion.

Optional: cylinder stainless steel, antifreeze, enabling its use at very low temperature till -30°C



9 Lt

13393

27 A

DIELECTRIC non conductive

CLEAN no residues

LIFEWATER only water + additive

Ø POLLUTION 100 % biodegradable



Code	Sealfire® lt	Class of fires	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallets 80x120	
								Q.ty	kgs
13393	9	27 A	190	15.3	655	5	38"	40	640
13393_1	9 ⁽¹⁾	27 A	190	15.3	655	5	38"	40	640

⁽¹⁾ Antifreeze -30°C +60°C

CARBON DIOXIDE FIRE EXTINGUISHERS CO2

APPROVED EN 3.7

DESIGNED AND MANUFACTURED IN ITALY



The CO2: carbon dioxide is excellent for fires of class B, suitable for class A fires provided in the initial stages and in the absence of embers to turn off paper, textiles, wood; although it is most suitable and consider closing the valve of the gas supply to stop the combustion.



Assembled in Italy



Kg 5

13252

113B

aluminium cylinder

Cylinder CE marked PED 97/23/CE

CE marked, 84/525/EEC or EN1964-1 and 97/23/EC (PED). W.P 60 bars at 20°C and 174 bars at 60°C (maximum allowable pressure PS). Light steel 34CrMo4, hydraulic tested up to 250 bar. All the cylinders are CE marked according to dir. 97/23/CE. Fire extinguisher are certified according ISO 9000, EN 3.9 and with batch declarations of conformity. Deeply sand blasted with metallic sand and painted with epoxy-polyester powder Red color Ral 3000 resistant to the atmospheric agents and to the ultraviolet x'rays.

Valve squeeze lever

Brass (ST-CW617N) marked CE 97/23/CE, with safety disc set at 185±15bar complete with a green safety seal to improve the optical cck from far. On request only for steel cylinder version valve with safety disk EN 3.9 195-230 bar. Only a simple glance is enough to check if the extinguisher has been tampered.

Thread M25x2, not damages after dismount phase.

Discharge horn

Strong polypropylene dielectric . Inside nozzle creates a ice cloud which quickly knock down fires.

Extinguishant

Carbon dioxide is a odourless and color less gas. It weigh about 1.5 times the air; it does not wet, dirty and it does not damage objects. The CO2 used in the extinguishers is 99% pure and it is moisture-less. CO2 is compressed in liquid phase inside the high pressure cylinder. In normal conditions at 20°C, the pressure inside the cylinder is about 55-60 bar and 1 Kg of liquid CO2 produces approx 520 litres of vapor gas.

Discharge hose

Rubber hose reinforced SAE R100, EN 853 with a high safety grade having a burst pressure far over > 450 bar. Its length allow you to act at a safety distance from the fire.

All our CO2 fire extinguishers are equipped with stronger siphone tube 100% Aluminium.

Even if test not required by the standard EN 3.7, they are, Good for extinguishing initial fire in class A.



Cheap, clean, dielectric

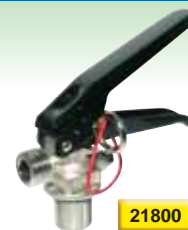


Rapid vaporization of the gas, so not suitable for use in open premises. However, it is recommended that the operator must be trained in the proper use of this fire extinguisher, because during the discharge in contact with the skin can be causes dangerous burns by dry ice.

Versions:

- Aluminium cylinder
- Steel Light alloy cylinder 35 CrMo4
- Anti-magnetic, for army and hospitals

Anti-magnetic valve



21800

Extinguishers Anti-magnetic, usually are used to avoid interference with the radars, computer scanner, RMA, and diagnostic equipments.

Standard brackets

Suitable for hook on the brass valve



21009

Kg 2

21001

Kg 5

Wall bracket

21085

Kg 5

Anti-magnetic

Optional

Horn holder ring and wall bracket. Maintains the cylinder adhering to the wall, prevents oscillations and accidental falls.

20432 for 5 kg steel cylinder Ø 136 mm

20433 for 5 kg aluminium cylinder Ø 154 mm



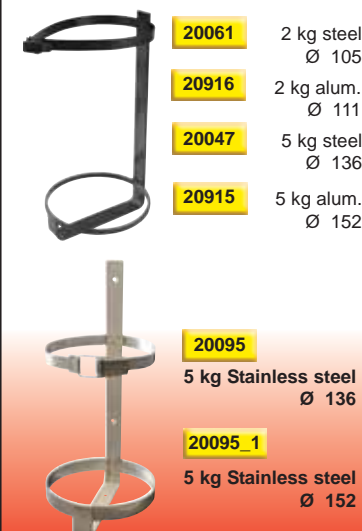
Horn holder

For wall bracket

20431

Brackets boats / trucks

Made in steel, latch closure complete with safety pin.



20061

2 kg steel
Ø 105

20916

2 kg alum.
Ø 111

20047

5 kg steel
Ø 136

20915

5 kg alum.
Ø 152

20095

5 kg Stainless steel
Ø 136

20095_1

5 kg Stainless steel
Ø 152

Fire extinguisher - Carbon Dioxide CO2 - EN 3.7

Excellent against fires involving flammable gases Class **B**.
Very good in Class **C**, although is suggested shut down the source of gas leakage.



Cheap, clean..



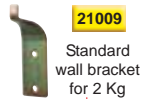
Thermal shock may damage electronics, low efficacy on class **A**, suggested only in initial state of development of fires, when embers not yet involved.

Assembled in Italy



2 Kg
13221
34B

Steel 35 CrMo4



21009

Standard wall bracket for 2 Kg



2 Kg
13222
34B

Aluminium

Anti-magnetic
Kg 2
13222_1
34B



21009

Standard wall bracket for 2 Kg



2 Kg
13223
70B

Steel 35 CrMo4

Antistatic horn
HIGHER EFFICACY

Code	CO2 kg	Class of fires	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallets 80x120	
								Q.ty	kgs
13221	2	34 B	105	6.5	560	3	8"	100	810
13222	2	34 B	111	5	535	3	8"	100	810
13223	2	70 B	105	6.5	560	3	10"	100	810

Type from **2 to 5 kg** for offices, hotels, hospitals, airports, garages.

Import cylinder



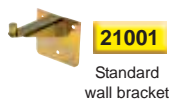
5 Kg
13252
113B

Aluminium, Cylinder made in Europe.

Dielectric discharge horn
HIGH EFFICACY

5 Kg
Anti-Magnetic
13252-
113B

Dielectric horn
HIGH EFFICACY
It produce a discharge soft snow, insulated antifreeze handle



21001

Standard wall bracket



5 Kg
13251
113B

Steel 35 CrMo4

Dielectric discharge horn
HIGH EFFICACY



Code	CO2 kg	Class of fires	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallets 80x120	
								Q.ty	kgs
13251	5	113 B	136	14	735	3.5	12"	50	735
13252	5	113 B	152 ⁽¹⁾	12	720	3.5	12"	50	600

Import cylinder

Cylindrical threaded M25x2, with O-Ring. Mounted on steel cylinder and aluminium only valve high security made in Italy.

Foxer S - STORED PRESSURE

1

Description:

Foxer S® are extinguishing gases ecologic and clean. Main components are a blend of HFC236 , HFC 227, HFC 134, recognized in the NFPA 2001 and accepted by EPA without limitations. They do not leave residuals after the discharge.

They are safe for the environments, **do not damage the ozone layer** and are safe for humans and live animals.

They are ideal replacements of banned BCF halon 1211.

They are not electrical conductive, do not leave any residues, do not creates thermal shocks and it is ideal and unique protection for electronic equipments.

Comparing with dry powder which leaves a lot of dirty residual, and comparing with foam that cannot be used on computers, become the unique ideal products.

These products are perfect protection for valuable places, were cleanliness is essential such as, shops, museums, libraries, archives, banks, computer rooms, telecommunications facilities, switchboards.

Due to rapid vaporization of the gas they are excellent for indoor fires, and have to be limited outdoor only for critical uses. Although not tested for class A fires, Foxer S is as excellent as the CleanBlue, having almost the same chemical compositions.

Fire test with Foxer portable fire extinguisher, clean, no residuals.



Fire test with Powder ABC portable fire extinguisher, dirty and residuals.



ADVANTAGES

- Do not leave residues.
- Safe** for humans, animals.
- Ecologic.**
- No thermal shockes** on computers.
- Do not have law limitations.
- Excellent for indoor** use for any initial fire in offices involving paper, electronics equipments.



Disadvantages

- Rapid vaporization of the gas they have to be limited outdoor.
- Costs more than other extinguishing agents.

OZONE FRENDLY
ODP = 0



Kg 1
13410

5 A
34B



Kg 2
13420

70B



Kg 4
13440

13 A
113B



Kg 6
13461

113B

Code	CO2 kg	Class of fires	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallets 80x120	
								Q.ty	kgs
13410	1	5A 34B	85	2	335	2	10	576	1.150
13420	2	70B	130	4.1	425	5	14	576	1.150
13440	4	13A 113B	140	6.8	485	3	25	132	910
13461	6	113B	160	9.7	530	5	24	132	910

Portable Fire Extinguishers Lithium D FAVORIT M Powder



100% Made in Italy

1

Low Velocity Discharge Applicator
CE marked
For D class fires

The extinguisher contains powder which is suitable for fires involving **lithium**.
Unique lance applicator designed to allow the powder to fall gently over the fire.
Highly effective against metal fires, which include fires caused by **sodium, magnesium and aluminium** when in the form of powder or swarf.

Kg 6 - 12



RÜHL
FEUERLÖSCHMITTEL GmbH

Use **D FAVORIT M** Dry Powder on 'Class D' specialist metal fires - particularly those involving Alkali metals such as Sodium, Potassium, Magnesium and Aluminium when in the form of swarf or powder (Note: **D FAVORIT M** is suitable for Lithium fires).

The unique lance applicator is designed to allow the powder to fall gently over the fire to prevent burning material from spreading.

D FAVORIT M is a Dry Powder fire extinguisher based on Sodium Chloride that has been treated with flow and moisture repellent additives.

D FAVORIT M extinguishes metal fires by fusing the powder to form a crust, which then excludes oxygen from the surface of the molten metal. The addition of a specific agent prevents the powder from sinking into the surface of the molten metal.

Powder **D FAVORIT M** tested by



Certificate of Conformity reference number KB 116/13 with portable EN3 fire extinguishers, equipped with a class D fire applicator:

- Fire test object **Magnesium acc.** to annex NA of DIN EN 3-7 with 12 kg powder.
- Fire test object **Sodium acc.** to annex NA of DIN EN 3-7 with 12 kg powder.
- Fire test object **Lithium** (without specification) with 12 kg powder.



Certified by MPA of Dresden in Germany.



CE Marked



Equipped with double Magnetic hose holder.



21136

Extending lance 60 cm hose for smoother fires of metals class "D"



Kg 6

13162_6

Kg 12

13172_6

NEW

Code	Kg Powder	Class of fires	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallets 80x120	
								Q.ty	kgs
13162_6	6	D	160	10.7	600	7	>20"	72	795
13172_6	12	D	190	18.5	660	7	>25"	40	790

- Seize and squeeze for maximum control
- Corrosion resistant high grade valve
- Unique lance applicator designed to allow the

powder to fall gently upon the fire

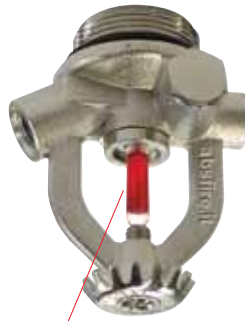
- Highly effective against metal fires, including Lithium when in the form of powder or swarf.





Stainless steel on request

Automatic valve page 43



- 24001** With bulb at 68°C standard
- 24003** With bulb at 93°C

Its activation does not require any source of energy. It is equipped with a sprinkler head with a thermosensible bulb. It is normally installed just up to the fire risk area. . Typically used in heater rooms, storage of flammable liquids, unattended areas.

Standard sprinkler is 68°C, while only the 2 kg is for boat use and it is 93°C

Powder

Is highly efficient however it need a deep cleaning of the room in case of activation.

Cod.	Kg	Mq~	D mm	H mm
15103	2	2	190	190
15105	4	4	245	350
15109	6	6	245	350
15111	10	10	245	450
15110	12	12	245	450

Foam Sealfire®

Foam is specially used in fires of flammable liquids contained in flat containers.

The foam floats over the flammable liquids sealing the fire from reignition and flashback. Much more clean than powder.

Cod.	Lt	Mq~	D mm	H mm
15112	6	4	245	350
15113	10	8	245	450
15114	20	12	360	450

* Suggestions of choice must be given from the expertized technician: As general rule in closed rooms:

Dry powder 12 kg is good for an area of 9/10 M2 or a volume of 25 M3 - **Sealfire®** Foam 20 Lt is good for an area of 15 Mq

Gas HFC 227 24 KG is good for a volume of 40 M3. Use only indoor. The volume protected is less if room has small aperture.

Pressure switch

Accessory for automatic fire extinguishers. When the fire extinguisher propel, allowing the automatic closing of the gas valve of the boiler room and activate an optical alarm.



23024 Pressure switch, NC-NA 10A



Fire protection systems for boiler rooms and for small kitchens of restaurants.

Available also for "F" class fire



On request special version for cooking oils fires

Kitchen and restaurants hoods



- Approved EN 1866-1:2008

- CE PED 97/23 surveillance: Bureau Veritas.
- Manufactured ISO 9001 Vision 2008, RINA surveillance.
- Best quality German Powder ABC multipurpose.
- Cylinder: Sandblasted and painted with epoxy polyurethane powder highly resistant to bumps, UV x-ray, maritime climate and industrial corrosive environment.
- Fire class rated A IVB

Kg 25 - Kg 50 - Kg 100

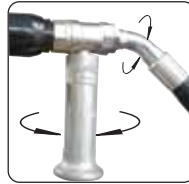
Options:

- Aluminium horn for 50 and 100 kg.
- Hose from 5 up to 10 mt.
- Third swivel front wheel.
- Detachable frame may be painted, red, or black.



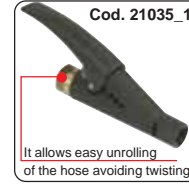
pressure gauge

on 50 & 100 kg



Swivel coupling
It allows easy unrolling of the hose avoiding twisting

on 25 kg



Cod. 21035_1
It allows easy unrolling of the hose avoiding twisting
Discharge pistol with 3/8" swivel coupling.
Optional on 50 kg

ON REQUEST



Cod. 21038_2
Horn in aluminium 3/4" shock resistant.



Swivel



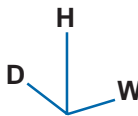
D
Detachable frame



Dust covers available see page 43



W
Welded frame



All types fire class approved A IVB
* Stainless steel cylinder

D = Detachable frame
No welding on the cylinder ensures better and higher safety.

W = Welded frame.
The axe and carrying handle are welded on the cylinder body.



Capacity Kg	Code	Type of frame	Type of valve or cap	Jet length mt~	Discharge time sec~	Packing dimension			
						H cm~	W cm~	D cm~	kg~
25	18130	W	2"	11	25"	102	43	53.5	55
	18130_1	D	2"	11	25"	108	43	53.5	55
	18130_5 *	W	2"	11	25"	108	43	53.5	55
50	18164	W	2"	11	43"	105	45	55	80
	18164_1	D	2"	11	43"	112	45	55	80
100	18181	W	2"	12	99"	129	54	70	155
	18181_1	D	2"	12	99"	129	54	70	155

1

- Approved EN 1866-1:2008

- Fire class rated A IVB
- CE PED 97/23 surveillance: Bureau Veritas.
- Manufactured ISO 9001 Vision 2008 RINA Surveillance.
- Best quality German powder ABC multipurpose.
- Cylinder: Sandblasted and painted with epoxy polyurethane powder highly resistant to bumps, UV x-ray, maritime climate and industrial corrosive environment.

Kg 25 - Kg 50 - Kg 100

Options:

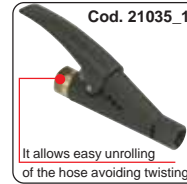
- Aluminium horn for 50 and 100 kg.
- Hose from 5 up to 10 mt.
- Third swivel front wheel.
- Cap 4", safety valve 1", check valve, inspection gauge.
- Detachable frame may be painted, red, or black.



CO2 cartridge



Swivel coupling
It allows easy unrolling of the hose avoiding twisting



Discharge pistol with 3/8" swivel coupling. Optional on 50 kg



Horn in aluminium 3/4" shock resistant.



Swivel



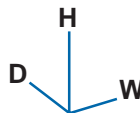
D
Detachable frame



Dust covers available see page 43



W
Welded frame



Standard cap



2" CE

Optional cap



4" CE

D = Detachable frame
No welding on the cylinder ensures better and higher safety.

W = Welded frame.
The axe and carrying handle are welded on the cylinder body.



D



W

All types fire class approved A IVB
*** Stainless steel cylinder**

Capacity Kg	Code	Type of frame	Type of valve or cap	Jet length mt~	Discharge time sec~	Packing dimension			
						H cm~	W cm~	D cm~	kg~
25	18131	W	2"	11	25"	102	43	53.5	60
	18131_1	W	4"	11	25"	102	43	53.5	60
	18131_2	D	4"	11	25"	102	43	53.5	60
	18131_5 *	D	2"	11	25"	102	43	53.5	60
	18131_7	D	2"	11	25"	102	43	53.5	60
50	14163	W	2"	11	41"	105	45	55	85
	14163_1	W	4"	11	41"	105	45	55	85
	18163_2	D	4"	11	41"	105	45	55	85
	18163_5 *	D	2"	11	41"	105	45	55	85
	18163_7	D	2"	11	41"	105	45	55	85
100	18166	W	2"	12	99"	129	54	70	166
	18166_1	W	4"	12	99"	129	54	70	166
	18166_2	D	4"	12	99"	129	54	70	160
	18166_5 *	D	4"	12	99"	129	54	70	166
	18166_7	D	2"	12	99"	129	54	70	166

Dry powder N2 External cartridge

Kg 25 - 50 - 100 - 150

1

- Approved EN 1866-1:2008

- Fire class rated A IVB
- CE PED 97/23 surveillance: Bureau Veritas.
- Manufactured ISO 9001 Vision 2008 RINA Surveillance.
- Best quality German powder ABC multipurpose.
- Cylinder: Sandblasted and painted with epoxy polyurethane powder highly resistant to bumps, UV x-ray, maritime climate and industrial corrosive environment.

Options:

- Aluminium horn for 50 and 100 kg.
- Hose from 5 up to 10 mt.
- Third swivel front wheel.
- Cap 4", safety valve 1", check valve, inspection gauge.
- Detachable frame may be painted, red, or black.



D
Detachable frame



W
Welded frame



nitrogen cartridge



On 50 & 100 kg
Swivel coupling
It allows easy unrolling of the hose avoiding twisting



on 25 kg
Cod. 21035_1
It allows easy unrolling of the hose avoiding twisting
Discharge pistol with 3/8" swivel coupling.
Optional on 50 kg



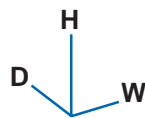
ON REQUEST
Cod. 21038_2
Horn in aluminium 3/4" shock resistant.



Swivel



Dust covers available see page 43



Standard cap



2"
CE

Optional cap



4"
CE

D = Detachable frame
No welding on the cylinder ensures better and higher safety.

W = Welded frame.
The axe and carrying handle are welded on the cylinder body.



Capacity Kg	Code	Type of frame	Type of valve or cap	Jet length mt~	Discharge time sec~	Packing dimension			
						H cm~	W cm~	D cm~	kg~
25	18131_10	W	2"	11	25"	102	43	53.5	60
	18131_11	W	4"	11	25"	102	43	53.5	60
	18131_12	D	4"	11	25"	102	43	53.5	61
	18131_17	D	2"	11	25"	102	43	53.5	61
BC Karate	18135	D	2"	11	25"	102	43	53.5	61
50	18163_10	W	2"	11	41"	105	45	55	85
	18163_11	W	4"	11	41"	105	45	55	85
	18163_12	D	4"	11	41"	105	45	55	87
	18163_17	D	2"	11	41"	105	45	55	87
100	18166_10	W	2"	12	99"	129	54	55	160
	18166_11	W	4"	12	99"	129	54	70	160
	18166_12	D	4"	12	99"	129	54	70	166
	18166_17	D	2"	12	99"	129	54	70	166
150	18150_11	W	4"	12	120"	138	54	70	230
	18150_21	W	4"	12	120"	138	54	70	230
	18150_22	W	4"	12	120"	138	54	70	230

1

- Approved EN 1866-1:2008

- CE PED 97/23 surveillance: Bureau Veritas.
- Manufactured ISO 9001 Vision 2008 RINA Surveillance.
- Top quality SEALFIRE X®, has the best sealing effect, specially developed for use in portables and trolleys extinguishers.
- Cylinder: Sandblasted and painted with epoxy polyurethane powder highly resistant to bumps, UV x-ray, maritime climate and industrial corrosive environment.

Very low environment impact, OECD>90% / 28 days.
SEALFIRE X® is PFOA / PFOS free.

Lt 25 - Lt 50 - Lt 100

Options:

- Hose from 5 up to 10 mt.
- Third swivel front wheel.
- Detachable frame may be painted, red, or black.
- Antifreeze up to -30°C.



Pressure gauge

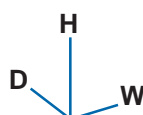


Swivel



Swivel coupling
It allows easy unrolling of the hose avoiding twisting

Dust covers available see page 43



All types fire class approved A IVB

- *Stainless steel 5 years guarantee
- alternative painted inside against corrosion 1 year guarantee.
- **Optional: Antifreeze up to -30°C**

D = Detachable frame
No welding on the cylinder ensures better and higher safety.

W = Welded frame.
The axe and carrying handle are welded on the cylinder body.



Capacity Lt	Code	Type of frame	Type of valve or cap	Jet length mt~	Discharge time sec~	Std. packing dimension for transport			
						H cm~	W cm~	D cm~	kg~
25	18225 *	W	2"	8	34"	102	39	53.5	60
	18225_1 *	D	2"	8	34"	102	39	53.5	61
	18225_2	W	2"	8	34"	102	39	53.5	60
	18225_3	D	2"	8	34"	102	39	53.5	61
50	18226 *	W	2"	8	45"	114	45	55	80
	18226_1 *	D	2"	8	45"	114	45	55	80
	18226_2	W	2"	8	45"	114	45	55	80
	18226_3	D	2"	8	45"	114	45	55	80
50	18251 *	W	2"	8	45"	114	45	55	80
	18251_1 *	D	2"	8	45"	114	45	55	82
	18251_2	W	2"	8	45"	114	45	55	80
	18251_3	D	2"	8	45"	114	45	55	82
100	18281 *	W	2"	8	99"	133	55	70	160
	18281_1 *	D	2"	8	99"	133	55	70	166
	18281_2	W	2"	8	99"	133	55	70	160
	18281_3	D	2"	8	99"	133	55	70	166

Foam Sealfire X® CO2 External cartridge

- Approved EN 1866-1:2008

- CE PED 97/23 surveillance: Bureau Veritas.
- Manufactured ISO 9001 Vision 2008 RINA Surveillance.
- Top quality SEALFIRE X®, has the best sealing effect, specially developed for use in portables and trolleys extinguishers.
- Cylinder: Sandblasted and painted with epoxy polyurethane powder highly resistant to bumps, UV x-ray, maritime climate and industrial corrosive environment.

Options:

- Hose from 5 up to 10 mt.
- Third swivel front wheel.
- Cap 4", CE safety valve 1", check valve, inspection gauge.
- Detachable frame may be painted, red, or black.
- Antifreeze up to -30°C.



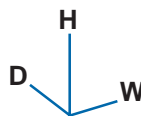
D
Detachable frame



Swivel coupling
It allows easy unrolling of the hose avoiding twisting



Dust covers available see page 43



CO2 cartridge



Swivel



W
Welded frame

All types fire class approved A IVB

- * Stainless steel 5 years guarantee
- alternative painted inside against corrosion 1 year guarantee.
- Optional: Antifreeze up to -30°C

2" valve
1/4" safety valve



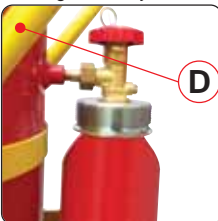
2"
CE

Large cap 4", 1/4" safety valve, vent valve, gauge.



4"
CE

D = Detachable frame
No welding on the cylinder ensures better and higher safety.



D

W = Welded frame.
The axe and carrying handle are welded on the cylinder body.



W

Capacity Lt	Code	Type of frame	Type of valve or cap	Jet length mt~	Discharge time sec~	Std. packing dimension for transport			
						H cm~	W cm~	D cm~	kg~
50	18260 *	W	2"	8	47"	114.5	45.5	55	85
	18260_1 *	W	4"	8	47"	114.5	45.5	55	85
	18260_2 *	D	4"	8	47"	114.5	45.5	55	85
	18260_3	W	2"	8	47"	114.5	45.5	55	85
	18260_4	W	4"	8	47"	114.5	45.5	55	85
	18260_5	D	4"	8	47"	114.5	45.5	55	85
	18260_6	D	2"	8	47"	114.5	45.5	55	85
100	18260_7 *	D	2"	8	47"	114.5	45.5	55	85
	18289	W	2"	8	99"	133.5	55	67	160
	18289_1 *	W	4"	8	99"	133.5	55	67	160
	18289_2 *	D	4"	8	99"	133.5	55	67	166
	18289_3	W	2"	8	99"	133.5	55	67	160
	18289_4	W	4"	8	99"	133.5	55	67	166
	18289_5	D	4"	8	99"	133.5	55	67	166
150	18289_6	D	2"	8	99"	133.5	55	67	166
	18289_7 *	D	2"	8	99"	133.5	55	67	160
	18284 *	W	2"	8	150"	138	70	90	230
	18284_1 *	W	4"	8	150"	138	70	90	230
	18284_2 *	D	4"	8	150"	138	70	90	234
	18284_3	W	2"	8	150"	138	70	90	230
	18284_4	W	4"	8	150"	138	70	90	230
18284_5	D	4"	8	150"	138	70	90	234	
18284_6	D	2"	8	150"	138	70	90	234	
18284_7 *	D	2"	8	150"	138	70	90	234	

Foam Sealfire X[®] N2 External cartridge

1

- Approved EN 1866-1:2008

Lt 50 - Lt 100 - Lt 150

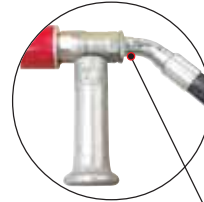
- CE PED 97/23 surveillance: Bureau Veritas.
- Manufactured ISO 9001 Vision 2008 RINA Surveillance.
- Top quality AFFF SEALFIRE X[®], has the best sealing effect, specially developed for use in portables and trolleys extinguishers.
- Cylinder: Sandblasted and painted with epoxy polyurethane powder highly resistant to bumps, UV x-ray, maritime climate and industrial corrosive environment.

Options:

- Hose from 5 up to 10 mt.
- Cap 4" with CE safety valve 1", check valve, inspection gauge.
- Detachable frame may be painted, red, or black.
- Antifreeze up to -30°C.



D
Detachable frame



Swivel coupling
It allows easy unrolling of the hose avoiding twisting



On request available with N2 pressure reducer

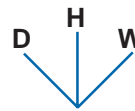
Dust covers available see page 43



Swivel



W
Welded frame



All types fire class approved A IVB

- * Stainless steel 5 years guarantee
- alternative painted inside against corrosion 1 year guarantee.
- Optional: Antifreeze up to -30°C

2" valve
1/4" safety valve



2"
CE

Large cap 4", 1/4" safety valve, vent valve, gauge.



4"
CE

D = Detachable frame
No welding on the cylinder ensures better and higher safety.



W = Welded frame.
The axe and carrying handle are welded on the cylinder body.



Capacity Lt	Code	Type of frame	Type of valve or cap	Jet length mt~	Discharge time sec~	Std. packing dimension for transport			
						H cm~	W cm~	D cm~	kg~
50	18260_10 *	W	2"	8	47"	114.5	45.5	55	85
	18260_11 *	W	4"	8	47"	114.5	45.5	55	85
	18260_12 *	D	4"	8	47"	114.5	45.5	55	85
	18260_13	W	2"	8	47"	114.5	45.5	55	85
	18260_14	W	4"	8	47"	114.5	45.5	55	85
	18260_15	D	4"	8	47"	114.5	45.5	55	85
	18260_16	D	2"	8	47"	114.5	45.5	55	85
100	18260_17 *	D	2"	8	47"	114.5	45.5	55	85
	18289_10 *	W	2"	8	99"	133.5	55	67	160
	18289_11 *	W	4"	8	99"	133.5	55	67	160
	18289_12 *	D	4"	8	99"	133.5	55	67	166
	18289_13	W	2"	8	99"	133.5	55	67	160
	18289_14	W	4"	8	99"	133.5	55	67	160
	18289_15	D	4"	8	99"	133.5	55	67	166
150	18289_16	D	2"	8	99"	133.5	55	67	166
	18289_17 *	D	2"	8	99"	133.5	55	67	166
	18284_10 *	W	2"	8	150"	138	70	90	230
	18284_11 *	W	4"	8	150"	138	70	90	230
	18284_12 *	D	4"	8	150"	138	70	90	234
	18284_13	W	2"	8	150"	138	70	90	230
	18284_14	W	4"	8	150"	138	70	90	230
	18284_15	D	4"	8	150"	138	70	90	234
18284_16	D	2"	8	150"	138	70	90	234	
18284_17 *	D	2"	8	150"	138	70	90	234	

- Approved EN 1866-1:2008

- CE PED 97/23 surveillance: Bureau Veritas.
- Manufactured ISO 9001 Vision 2008 RINA Surveillance.

Extremely compact and easy to move and transport.
 Designed for use in industrial field.
 Suitable for use on live electrical equipment.
 It is used to extinguish fires of flammable liquids, switchboards, benzene, oils, varnishes, alcohol, etc where fire needs extinguishing but does not have to leave traces of dirt.

Kg 10 - Kg 20 - Kg 30 - Kg 50

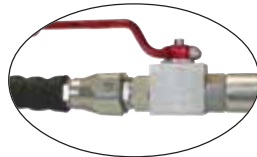
Replace oxygen, necessary for the combustion, with inert gas.
 Good jet and excellent snow horn.
 Cooling quickly, snow of CO2 flows at a temperature of -78°C.
 It is not advised to be used in small place, in presence of people.
 Avoid breathing CO2 gas and after the discharge always leave the area if has been used in closed rooms. Interception valve.
 High efficient horn.



18311_2

10 KG

Approved fire class 144



Optional
 With swivel device 3/8"

98042

It allows quick and easy unrolling avoiding twisting

All types fire class approved 233

Dust covers available see page 43



18321_6

20 KG



98071 Mounting bracket for helicopter lance

98009 Helicopter lance 2 mt



18322_2

30 KG



18352_2

50 KG

! Longer hose up to 10 mt available and approved.

Code	Capacity Kg	Cylinder diameter mm~	Type of valve	Wheels diameter mm~	Jet length mt~	Discharge time sec~	Std. packing dimension for transport			
							H cm~	W cm~	D cm~	kg~
18311_2	10	154	25 E	300	4	17"	90	35	104.5	38
18321_6	20	230	25 E	300	4	32"	97	40	60	70
18322	30	230	25 E / 1"	300	4	35"	114	49	115	85
18352	50	270	1"	400	4	52"	143.5	65	140	156



Carrying frame standard yellow optional Red or Black

Trolleys Fire Extinguishers

ABC & BC Powder



100% Made
in Italy

ABC Powder 20%
BC Powder



Kg 50

High quality products, designed to attack fire with maximum power. The cylinder is completely made in stainless steel AISI 304, granting high resistance to corrosion and atmospheric agents.

The large neck ring and the cap M120, allow the fire extinguisher to be easily inspected and refilled, while the safety valve set at 24 ± 2 bar avoid excessive overpressure.



Hose is a high resistance EPDM Rubber pipe, external diameter 26 mm, designed with a burst pressure above 60 bar, more than 5 meter long, is perfect to get closer to the fire and get the best performance out of the trolley.



Kg 50
14716

ABC Powder 20%

Kg 50
14717

BC Powder

**Stainless Steel
Cylinder**



The External cartridge, CO2 operated, mounts a special lever valve instead of the normal handwheel valve.

Big and solid rear wheel diameter 300 mm are made in strong plastic covered in rubber, together with high resistance front swiveling wheel, diameter 80 mm, and a perfectly balanced center of gravity, allow high maneuverability to rapidly reach the fire.

Capacity Kg	Code	Type of frame	Type of valve or cap	Jet length mt~	Discharge time sec~	Packing dimension			
						H cm~	W cm~	D cm~	kg~
50	14716	D	M 120x3	11	41"	105	50	60	88
	14717	D	M 120x3	11	41"	105	50	60	88

Trolleys Fire Extinguishers

Water + Foam A.F.F.F.



100% Made in Italy

1

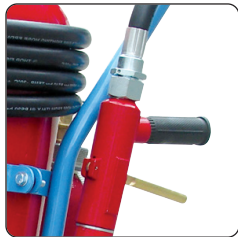
Lt 50

High quality products, designed to attack fire with maximum power. The cylinder is completely made in stainless steel AISI304, granting high resistance to corrosion and atmospheric agents.



The large neckring and the cap M120, allow the fire extinguisher to be easily inspected and refilled, while the safety valve set at 24+-2 bar avoid excessive overpressure.

Hose is a high resistance EPDM Rubber pipe, external diameter 26mm, designed with a burst pressure above 60 bar, more than 5 meter long, is perfect to get closer to the fire and get the best performance out of the trolley.



The External cartridge, CO2 operated, mounts a special lever valve instead of the normal handwheel valve.

Big and solid rear wheel diameter 300mm are made in strong plastic covered in rubber, together with high resistance front swiveling wheel, diameter 80 mm, and a perfectly balanced center of gravity, allow high maneuverability to rapidly reach the fire.

The Foam version mount a high resistance aluminum nozzle, while the powder version a plastic machine gun: they are both coupled to the hose thanks to a swiveling coupling which allows to unroll the hose perfectly, without losing time. High quality Epoxypolyester painting prevent corrosion and assures high visibility.



Lt 50
14726
Foam A.F.F.F.

Lt 50
14726_20
Foam A.F.F.F.
(-20° C)

Capacity Lt	Code	Type of frame	Type of valve or cap	Jet length mt~	Discharge time sec~	Packing dimension			
						H cm~	W cm~	D cm~	kg~
50	14726	D	M 120x3	8	45"	105	50	60	86
	14726_2	D	M 120x3	8	45"	105	50	60	86

14726_20 CE MARKED



1370
Directive
97/23/EC

CE Marked

New 14726 - 14726_20

1 Trolleys Fire Extinguishers

Lithium D FAVORIT M Powder



100% Made in Italy

Low Velocity Discharge Applicator
CE marked
For D class fires

Kg 25

Kg 50 - 75 Kg - Kg 100



CE Marked

- Fire class rated D
- CE PED 97/23 surveillance: Bureau Veritas.
- Manufactured ISO 9001 Vision 2008 RINA Surveillance.
- Best quality German.
- Cylinder: Sandblasted and painted with epoxy polyurethane powder highly resistant to bumps, UV x-ray, maritime climate and industrial corrosive environment.

The extinguisher contains powder which is suitable for fires involving **lithium**.

Unique lance applicator designed to allow the powder to fall gently over the fire.

Highly effective against metal fires, which include fires caused by **sodium, magnesium and aluminium** when in the form of powder or swarf.



Use **D FAVORIT M** Dry Powder on 'Class D' specialist metal fires - particularly those involving Alkali metals such as Sodium, Potassium, Magnesium and Aluminium when in the form of swarf or powder (Note: **D FAVORIT M** is suitable for Lithium fires).

The unique lance applicator is designed to allow the powder to fall gently over the fire to prevent burning material from spreading.

D FAVORIT M is a Dry Powder fire extinguisher based on Sodium Chloride that has been treated with flow and moisture repellent additives.

D FAVORIT M extinguishes metal fires by fusing the powder to form a crust, which then excludes oxygen from the surface of the molten metal. The addition of a specific agent prevents the powder from sinking into the surface of the molten metal.

Standard cap



2"
CE

Optional cap



4"
CE

D = Detachable frame
No welding on the cylinder ensures better and higher safety.

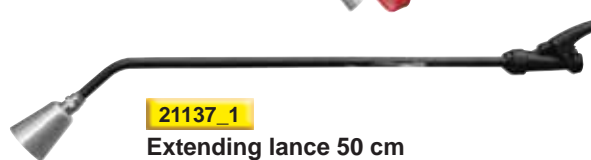


W = Welded frame.
The axe and carrying handle are welded on the cylinder body.



Kg 25
18131_6

NEW



21137_1

Extending lance 50 cm
complete with pistol for smoother fires of metals class "D"

Powder **D FAVORIT M** tested by **MPA Dresden** Certificate of Conformity reference number KB 116/13 with portable EN3 fire extinguishers, equipped with a class D fire applicator:

- Fire test object **Magnesium acc.** to annex NA of DIN EN 3-7 with 12 kg powder.
- Fire test object **Sodium acc.** to annex NA of DIN EN 3-7 with 12 kg powder.
- Fire test object **Lithium** (without specification) with 12 kg powder.



Certified by MPA of Dresden in Germany.



Kg 50

18163_6

Kg 75

18166_6

Kg 100

18170_6

NEW

- Corrosion resistant high grade valve
- Seize and squeeze for maximum control
- Unique lance applicator designed to allow the powder to fall gently upon the fire

- Highly effective against metal fires, including Lithium when in the form of powder or swarf.

Technical data are subject to modification for improvements without prior notice

Cod.	Powder Kg	Foam Lt	Dimension cm L x P x H	Weight Kg ~	Jet mt ~	Discharge time
19001	50 +	50	122x104x127	190	8+8	30+30"
19002	100 +	100	128x110x127	300	10+10	50+50"

Twin Agents, is composed by a single frame with mounted two cylinders, one filled with dry Powder and one with Foam. Wheels are mounted on roller bearings. Easy manoeuvrability, designed for use by one person, allows to push the unit forward, or pulling. It can also be equipped with truck towing eye. Dry powder may be Monnex, sodium bicarbonate, potassium bicarbonate Purple K, Potassium sulphate or ABC 90% of MAP. The combined action makes them unbeatable in the fight against the fire. On large fires of flammable liquids, the action of the foam sealing effect Sealfire, creates a fast knock down of the flames and reduce the heat; if not totally extinguished the scene of fire

can be approached easily, use dry powder and get the final positive result.

Twin agents are indicated and essential in airports, refineries, large deposits of liquid flammable dangerous goods stores and stacking flammable.

Unique system allow the pressurization in less than 10 seconds of both cylinders, than a second cylinder with a pressure reducer guarants the constant pressure, discharging completely without internal residue.

The cylinder containing the foam is made of stainless steel. Version with towing eye and bigger sizes on request.



Machine guns 2 lt / Kg per sec high flow. Hoses has swivelling connectors and both can be operated by one person.

Trolley fire extinguisher special version for Airports



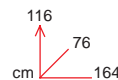
100 kg version used in airport areas. Loaded with versatile high efficiency dry powder multipurpose ABC 90% MAP. The model can be easily manoeuvred by hand or car towed.

Optional stainless steel cylinder

Description	Cod.	
	12153a	12154a
Nitrogen cylinder	direct	with pressure reducer
Powder ABC kg	100	100
Weight kg	250	250

12153 100 KG

Approx weight 250 Kg



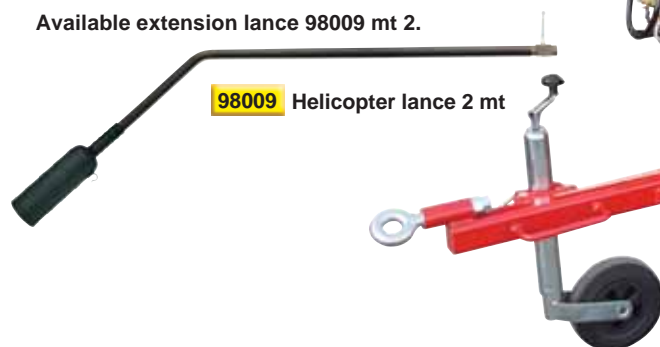
120 kg CO2 Trolley fire extinguisher special version

19005 120 kg CO2 Trolley fire extinguisher

120 kg CO2 immediately ready to use.

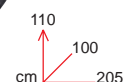
- Continuous discharge for more than 2 minutes;
- ON/OFF Ball valve to adjust the jet;
- Ideal for airports and helideck applications;

Available extension lance 98009 mt 2.



98009 Helicopter lance 2 mt

Approx weight 250 Kg





Portable fire Extinguishers Med Marine

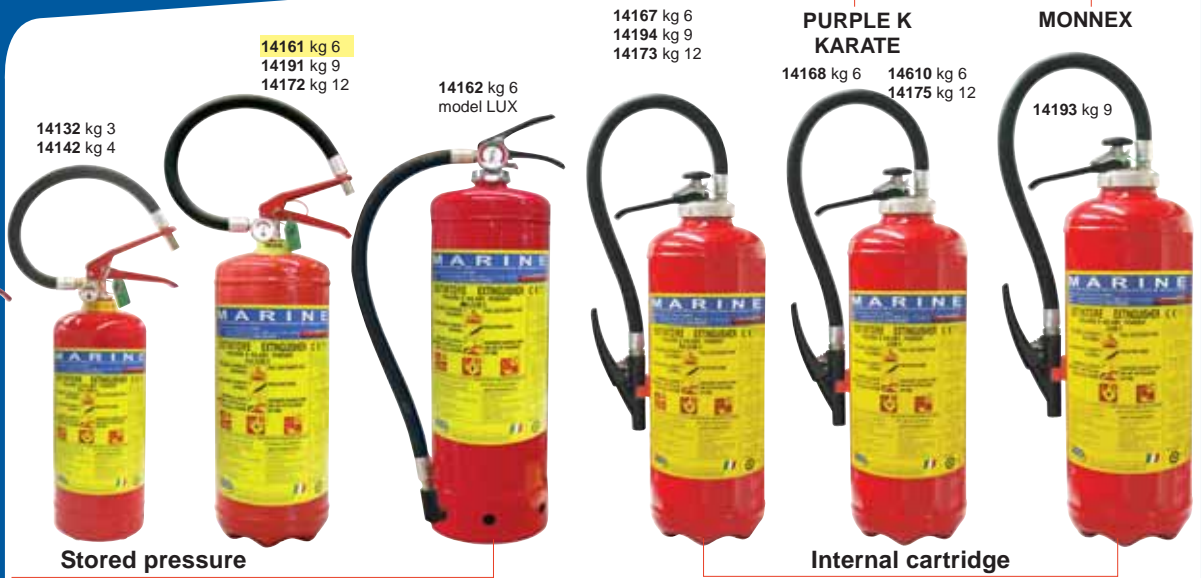


100% Made in Italy

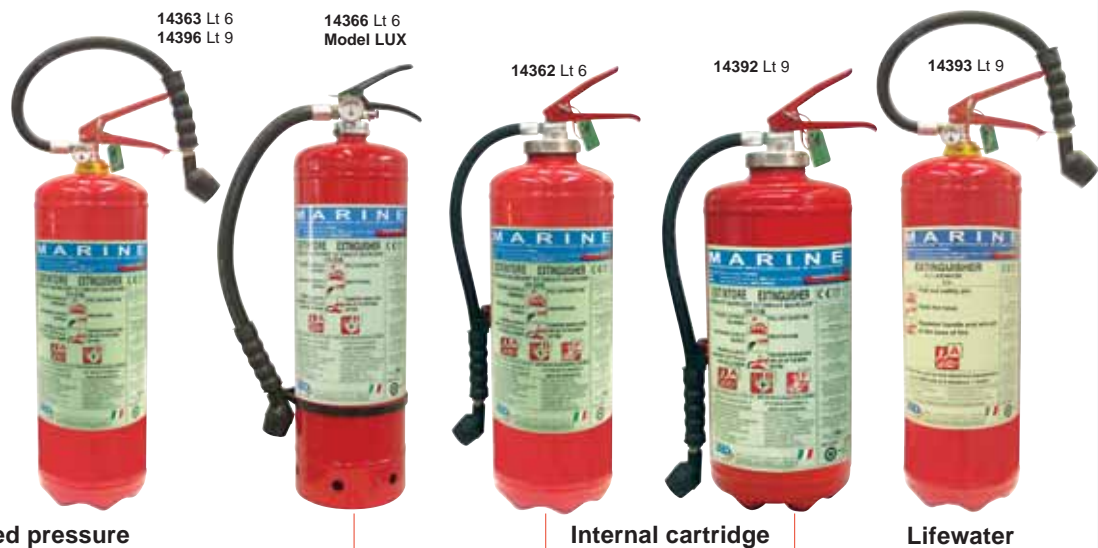
Optional: Stainless steel cylinder, Anti-magnetic version)

Powder ABC & BC Purple K Karate Monnex

BC Powder



Foam A.F.F.F. & Lifewater



CO2 Carbon Dioxide

Clean Green, Clean Blue

Ecological gas extinguishant, do not leave residue, no thermal shocks on computer.



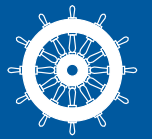
The largest range of Portable Fire Extinguishers





100% Made in Italy

Wheeled fire Extinguishers Med Marine



1

Certified MED Marine 96/98/EC & Certified EN 1866-1

STORED PRESSURE



N2 or CO2 CARTRIDGE OPERATED



Powder
ABC & BC
Purple K
Karate
Monnex

14150_11
150 kg

STORED PRESSURE



N2 or CO2 CARTRIDGE OPERATED



Foam
A.F.F.F.
Sealfire X

14311
10 kg



14321_6
20 kg



14322
30 kg



14352
50 kg



CO2
Carbon
Dioxide

The largest range of Wheeled Fire Extinguishers

1



Easyfire®: automatic fire extinguishing system

It is an efficient and economical extinguishing system specially designed for boats and yachts. It is filled with the ECO CLEAN GAS OZONE FRIENDLY, HFC 227 better known as FM200®. It conforms to NFPA 2001, accepted by EPA. It fully respects the Ozone layer because its ODP is ZERO. Its use is permitted in rooms in the presence of people.

The gas is recognized as a clean agent and it fully respects the environment.

In case of fire, the boat's engine room is immediately safe in less than 10 sec.

The gas is transparent, absolutely clean, it does not leave residues, it does not damage the engine, and it is safe for the people and animals. The fire is extinguished immediately the gas HFC 227 is released.

It works automatically when the temperature in the engine room reaches 93°C.

The unit fully charged ready to use includes a strong wall bracket.

A pressure gauge signs in a green area the functionality of the units.

Manufactured under surveillance of Bureau Veritas



and marked CE Tested, approved and certified ISO 9094 by RINA Marine authority worldwide.

It protects max 20 m3

* HFC 227 known as FM 200®,
OZONE AND ENVIRONMENTALLY FRIENDLY
CLEAN, does not damages computer equipment, not harmful for humans and animals.

24002 Automatic valve with sensitive temperature set at 93°C. Operated also with manual actuator.

Code	Charge Kg	Diam mm	H mm	M3 Room
15230	1	110	380	1,7
15231	3	130	400	5
15232	6	160	475	10
15224	9	190	550	15
15233	12	190	600	20

Optional Accessories suitable for Easyfire® and Firekill

Choose only 1 accessory:
Pull lever, steel wire actuator
Electric actuator

Termocable

- 47034** 88°C
- 47035** 105°C FM. listed
- 47036** 138°C UL. listed

Termocable act as a temperature fire detector.

With fire, It melts and the short circuit acts as switch activating the electric actuator 43001.

The control box 23023 control the integrity of the cable, its failure and indicates the immediate discharge. Standard suggested is 105°C.

Box pull cable

20412 Manual actuator need adaptor **20412** + pull lever steel wire, + a choice of box

41006 5 mt
23011 10 mt

41003 Brass red painted
23012 Stainless steel

Box pull cable Brass red painted Dimension: 90x60

Boxx pull cable Stainless steel
23017 mm: 90x60

Pull lever, steel wire

Alarm pressure switch

Optional
Warns of low pressure, it actuates alarms, other safety device. 23024 Switch could be set N.O. or N.C. when low pressure or activation it will close or open the contact. Contacts support max 220 Volt 10A



23024 Pressure switch N.C. + NO

Electronic Box pull cable

Electronic control box Includes a circuit to check, integrity, failure, discharge. Green led indicates good operating, while red indicates trouble or discharge. Emergency push button for manual discharge. Seal ensures that children may activate the system.
(Alternative professional control box 23023)



43001 Electric actuator

23022 Stainless steel Silver plated



mm: 90x60

to next page

Picture in open position



Led
Button actuator
Tamper seal

23022_1 Gold 24K plated



True Gold 24K

Combined with an electric switch on plance or to the control box 23022 or to 23023 on the next page, active the discharge. Universal voltage, 1A.

Nozzle fixed on the top of the motor engine

Firekill® is a pressurized cylinder filled with clean gas **HFC227, or ABC powder**.

It is automatic with manual remote control.

It is equipped with one thermosensitive bulb, at 93°C (or on request at 68°, and 79°C).

Firekill® has a versatile valve, completely automatic without use of any source of energy. It has a manual remote control pull cable and on request an electric actuator.

Moreover it is possible to connect a control box that controls thermocable or smoke detectors.

Firekill® unique valve has two outlets, diam. 3/8" pipes, a maximum of 4 nozzles.

Its great advantage is that it may distribute the jet with precision in the effective point of the fire risk.

Assembly without the necessity to thread pipes, extremely easy and quick.

Suitable also to protect mixes of varnishes, garages, flammable liquids storage, etc.

The gas is clean, does not leave residues, it is safe for humans and animals, and fully ecological with the environment.



SYSTEM FIREKILL® KIT SUPPLIED WITH:

- Cylinder marked CE PED 97/23
- Automatic valve 2 outlet 3/8"
- Aluminium pipe diam. 10x1
- Special nozzle 3/8"m or 1/4"
- Remote pull cable n. 1
- Steel wire 5 mt
- Coupling rapid connection 10x1
- Bracket for extinguisher (Optional in Stainless steel).



It protects max 20 m3

* HFC 227 known as FM 200®,
OZONE FRIENDLY RESPECT THE ENVIRONMENT.

CLEAN, does not damage computer equipment, not harmful for humans and animals.

FIREKILL® Powder					
Protected Vol.			D	H	Pipe
Code	kg	M3	mm	mm	mt
15241	1	1.7	110	390	2
15227	3	5.1	140	410	4
15228	6	10	160	485	5
15226	9	15	190	550	6
15229	12	20	190	610	8

FIREKILL® HFC 227					
Protected Vol.			D	H	Pipe
Code	kg	M3	mm	mm	mt
15237	1	1.7	110	390	2
15238	3	5.1	140	410	4
15239	6	10	160	485	5
15242	9	15	190	550	6
15240	12	20	190	610	8

23023 MARINE CONTROL BOX FOR FIREKILL & EASYFIRE (In alternative cheaper control box 23022)

CHASSIS IN ABS

Strong plastic housing, for best protection. It ensures an excellent heat dissipation which allows long periods of operation even at highest climate conditions.

Maximum connection distance

- With shielded twisted pair cable 150 mt.
- Maximum ease of use
- **Large backlit LCD 16X2**

Dashboard unit.

Simple, small, safe, it controls all the functions, integrity, failures, and for emergency discharge.

100% waterproof and sea climate environment resistant. Special circuit protects against accidental discharge, or children tampering.

Remote CPU

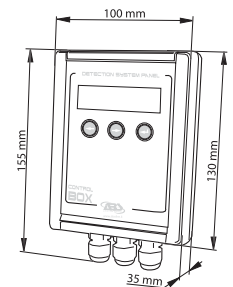
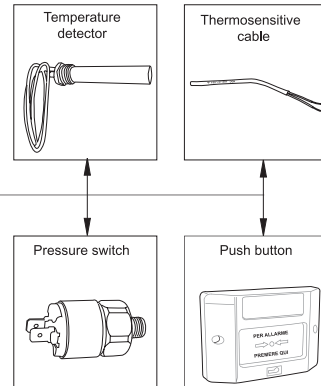
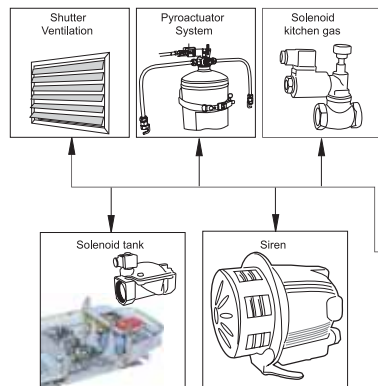
Programmable with its 3 buttons in most European languages.

Upon system discharge, it shutdown engine, forced ventilation, fans, electrical system, actuate sound and visual alarm.

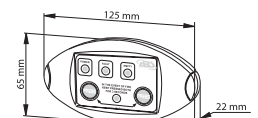
Technical specifications

- Power supply : 12Vdc
- Output relay : Max 3A
- Signal input : 12mA/12Vdc
- Microcontroller : Advanced RISC 8bit
- Communication : RS485 half duplex

- Backlit LCD Display 16x2
- Acoustic and optical signal with led.
- Programming by buttons.



CPU
weight: 230 gr



Dashboard
weight: 57 gr

Cabinet for trucks " LINEAR "

Security plastic internal latch to fix the extinguisher inside and to avoid accidental opening. Quick release lid for fast access to extinguisher in emergencies. Cheap, most popular, but strong, resistant, for trucks, trains, **indoor and outdoor warehouses**.

Made in Italy

26325 kg 9-12

26326 kg 5 CO2

Most popular

26324 kg 6



34 x 62 x 24



34 x 72 x 24



34 x 87 x 24

Labyrinth system, excellent dust and waterproof. - 30°C



Fast body-lid assembling system



Lockable



Lid with integrated handles

Strong lid and locking. Stress test more than 5.000 times without damage

2

Cabinet for trucks " ITACAB "

Super hard polipropilene Security clip against accidental opening. Strong anti-vibration through progressive tensioning ratchet strap, quick release button is highlighted in red. Quick release lid for fast access to extinguisher in emergencies.

26321 KG 6 Red/Black, 25x60x30

26322 KG 9/12 Red/Black, 30x75x35



Look for extinguisher

6 Kg



Rapid look



Cabinet for trucks " EUROPE "

Very strong plastic ABS, excellent design and finishing.

6 Kg

26308 31x61x25

Very popular, nice design, latches tested 30.000 times.

9 Kg

26323 31x68x25



Plastic cabinets for fire extinguisher

Strong plastic ABS, shine finishing. **Indoor and outdoor use.**



6 Kg

26307
32x62x22



26307_1

Couple of brackets with clips for 6 kg Ø 160 ~ 162 mm for cabinet **26307** Avoids overturning of extinguisher



9-12 Kg
5 Kg CO2

26304

37x84x24

Internal lock detail



Includes two latches, transparent window, hard rubber, European durable rubber bracket.



Cabinet for trucks " KINAS "

Polyethylene, universal use for trucks, buses, for internal and external use, resistant up to -30 °C, two latches with safety pin and tamper seal.



26315 kg 6
25 x 70 x 30 cm

26316 kg 12
26 x 83 x 31 cm



Dust seal



91015

Aluminium label adhesive fire extinguisher 12x8



Nylon strap with locking steel



Double clousure, safety pin, seal.

Plastic cabinet for portable fire extinguisher Model "DIAMANT"



Technical detail

- Material: ABS
- Suitable for: 6 kg
- Dimensions: 30 x 64 x 21
- Weight: 2,10 Kg

Components:

- Transparent cover
- Grey backside
- Anti-panic handle
- Handle look with safety seal



26314

kg 6
30 x 64 x 21



MARINE Fiber glass cabinets

61131 EXTRA LUX For extinguisher, or fire hose

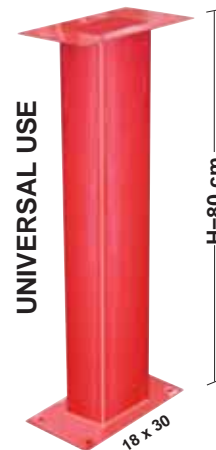
Best protection against corrosion for marine or aggressive climate conditions.



69x39x26 cm

60002_1

Foot stand



Stainless steel AISI 316 Painted Red RAL 3000

MARINE Fiber glass cabinets

61132 kg 6
28,5x65,5x23

61137 kg 12
30x75x22

61136 56x56x22



Can be stored 3 extinguisher kg 6 or 2 fire hoses

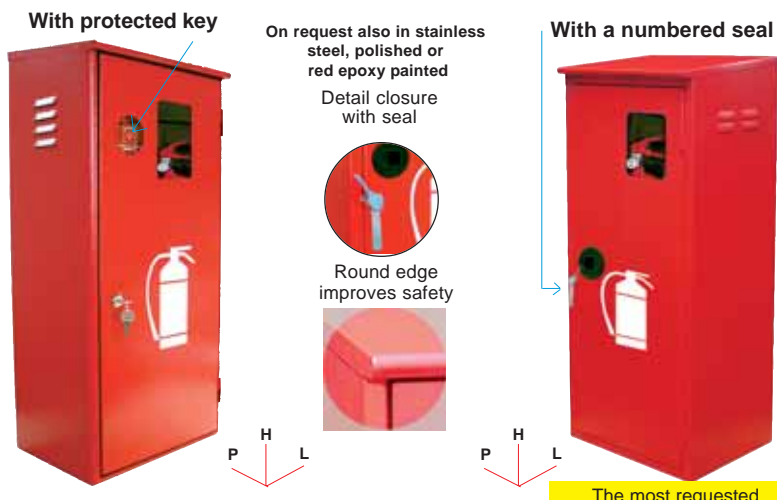
Cabinet model SUPERSAFE 626 for extinguisher, steel, galvanized painted, top quality

Cod.	Kg	Lock type	Dimension cm L x H x P
26213	6	key	31 x 65 x 22
26214	6	Seal	31 x 65 x 22
26215	12	key	34 x 78 x 24
26216	12	Seal	34 x 78 x 24
26209	5 CO2	Seal	30 x 85 x 18
26229	5 CO2	Seal	34 x 85 x 18

2

Stainless steel
Red polyurethane paint resistant to any climate. Suitable for outdoor but also indoor, elegant finish.

GALVANIZED STEEL, long resistance to corrosion, almost maintenance-free, in two models: with a key protected by a small plate with safety lock, or with a seal number. Viewing window. Rounded corners to meet the most demanding in quality, safety against accidental cuts.



The most requested

Safety cabinet complete with safety plastic glass Easybreak

CABINET			spare plastic glass		
Cod.	Kg	cm	Noflames	Easybreak	cm
26202	6	30x65x20	60033_1	60033	25x54
26201	12	30x78x25	60021_1	60021	25x71
26101	6	30x65x20	60018_1	60033	25x54
26103	6	30x65x28	60017_1	60017	21x51
26102	12	30x79x28	60020_1	60020	22x67

Epoxy paint

Complete with plastic glass Easybreak.

The plastic glass is non-flammable, protects against unwanted accidental skin cuts..

Closure with anti tamper green seal.



Elegant finishing aluminium door frame or stainless steel

Stainless steel AISI 304



26202 kg 6 26201 kg 12

Aluminium frame

Steel painted



26101 kg 6

Aluminium frame

Steel painted



26103 kg 6 26102 kg 12

Steel frame

SAFETY PLASTIC GLASS - see also at page 68 - 76



NOFLAMES



EASYBREAK

Fire extinguishers cabinets are equipped with plastic glasses.

NOFLAMES

Is a transparent plastic, elegant, shining dark glass like, it permits a discrete view of inside.

EASYBREAK

Is a pale yellow pleasant colored plastic glass.

It has some rows enabling easily to break it just hitting with an object or hands gloved.

Both protects the extinguisher from UV X-rays, and on request may be purchased on big size 2 x 1 mt so that may be cutted on custom need, or supplied on custom size.

Fire extinguisher steel cabinet kg 6 / 9 / 12 and CO2 kg 5

For indoor and outdoor epoxy painted closure with a tamper seal protection.



26104

kgs 6, steel frame with seal. 32x60x27



Green seal

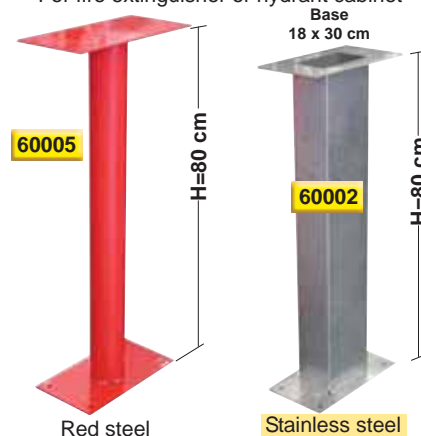


26105

kg 9/12/CO2 kg 5, steel frame with seal. 32x80x27

Foot stand for cabinet

For fire extinguisher or hydrant cabinet



60005

Red steel

60002

Stainless steel

Fire service cabinet book recorder

Useful to store the book recording all the periodical maintenance operation. Useful to store other important documents such as, maintenance of heaters, medical, chemicals. Locker with a key. Can be fixed on wall. Label available in different languages.

60062 Metal box
Dim. cm : 26x36x5



Label available in different languages.

91007_1 Plastic box
Dim. cm : 30x37x7



2

Key guard

Necessary for the preservation security key for boiler rooms, fire pumps, keys lift, counters, etc..

60064 In plastic. Break glass.

60051 In metal, locker, Easybreak glass.

60001 Made in plastic ABS, Easybreak glass

ECONOMICAL
CORROSION FREE

Key lock
not included



cm
11
8



cm
12
12
8



cm
12
12
8

Emergency breakglass

It can break a car or truck glass in case of emergency. It save a life!!

28061



Fiberglass blanket

Resist to high temperature. Protects from heat and flames. Useful to suffocate flames of kitchen pans, restaurants, home, cars mobile homes, garages, laboratories, offices....Weight approx 420 gr/mq, thickness approx 0,40 mm. In elegant waterproof custody, fixed with Velcro for rapid use. Holes to fix in the wall or hang inside a safety cabinet. Just pull the velcro and blanket is ready to use. Useful to abandon the fire scene in case of unexpected accident.

Flat custody

92004 90x120 cm



92002 180x122 cm



92003 180x180 cm



Rigid box

92018 Dimension 90x120 cm

92021 Dimension 180x120 cm



Certified EN1869

Bucket for sand

93000 Without cap.

93001 With cap.

Made in steel, painted red Rall 3000



Patented floor stand for fire extinguishers

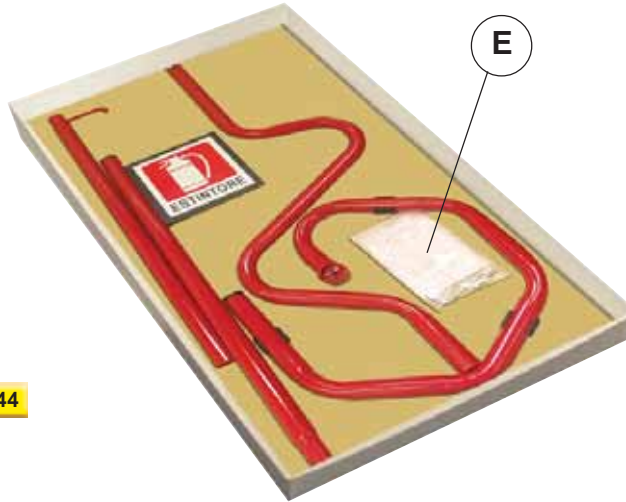
2

BOX CONTENTS

- A - Base floor stand
- B - First bar
- C - Extension bar with hook
- D - Extension bar with label
- E - Bolt and instruction for use

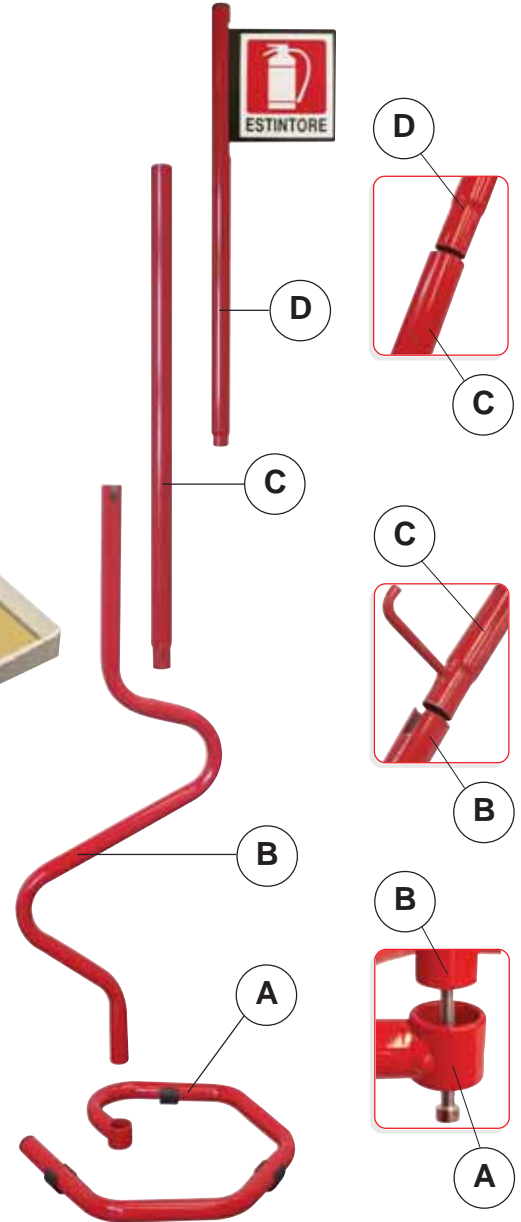
Floor stand complete
base + extension
+ label
h = 190 cm

28044
Red



Packing dimension
40 x 80 x 3 cm

**A single bolt for
mounting, small
dimension**

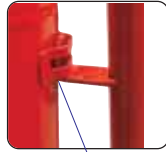


Double floor stand

Specify desired hook type



"V" - Hook
on the valve



"C" - Hook
back cylinder

28034 Chromed

28033_1 Black color

28033 Red color



Double
h = 78 cm

h = 78 cm



Extension
bar with
label
28017
Black or Red
or Chrome,
specify
desired type

Technical data are subject to modification for improvements without prior notice

Single floor stand for fire extinguishers

Chromed, Red or Black, epoxy powder painted.

Standard Hook type "V". Hook type "C" on request.

Packing box 10 pcs.
Standard Red, Black on request



"V" - Hook on the valve



"C" - Hook welded on the cylinder

Complete floor stand
base + extension
+ label
h = 192 cm

28021

Red

28021_1

Black

28026

Chromed



28026
Chromed



28021_1
Black

Without extension



28021
Red

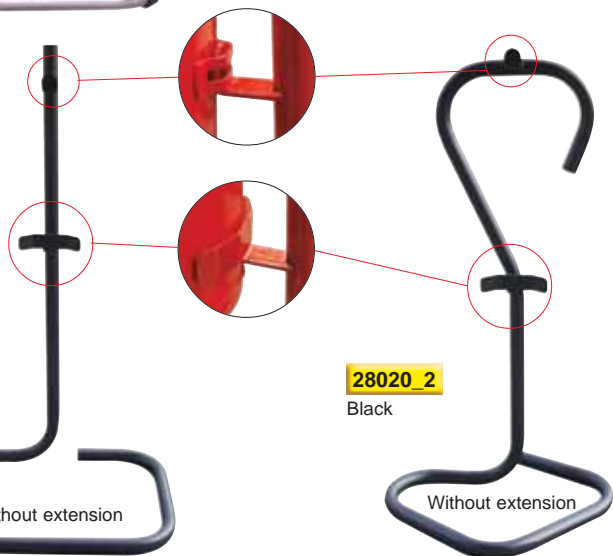
Emergency number

Ashtray or flower decoration



28027 "PCH" - h=190 cm

Available
Packing in a
single box



28020_2
Black

28062

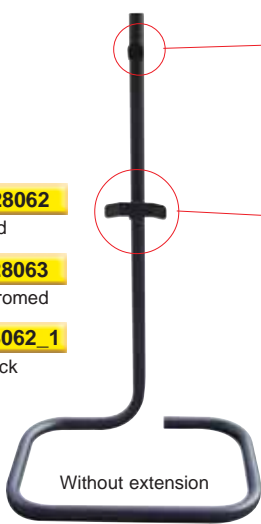
Red

28063

Chromed

28062_1

Black



Without extension



28031 "PCB" - h=120 cm

Technical data are subject to modification for improvements without prior notice

Single stainless steel floor stand for fire extinguishers

**ELECTRO
POLISHED**
Stainless steel
High Quality

"C" - Hook
welded on the
cylinder



28058 Stand for portable fire extinguisher
Powder Kg 6 - 12 - Foam L 6 - 9

"V" - Hook
on the valve



28058_1 Stand for portable fire extinguisher
Powder Kg 6 - 12 - Foam L 6 - 9

Single floor stand for CO2 fire extinguishers

**ELECTRO
POLISHED**
Stainless steel
High Quality

"V" - Hook
on the valve



28058_3 Stand for portable fire extinguisher
Carbon Dioxide Kg 2

"V" - Hook
on the valve



28058_2 Stand for portable fire extinguisher
Carbon Dioxide Kg 5

Single floor stand for fire extinguishers

28096 Red type without extension
Floor standing fire extinguisher, short, round base.



New type
Very light material.
VERY STRONG

Complete floor stand
base + extension + label

28096_1 Black type without extension
Floor standing fire extinguisher, short, round base.



28096_2 Chromed type without extension
Floor standing fire extinguisher, short, round base.



28095_1
Black



28095_2
Chromed



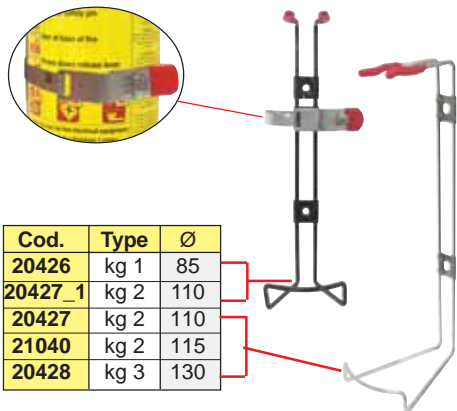
PVC round base

188 Cm

28095 Red



Car brackets



Cod.	Type	Ø
20426	kg 1	85
20427_1	kg 2	110
20427	kg 2	110
21040	kg 2	115
20428	kg 3	130

Brackets for racing cars

21150 4 kg diam 140

Accepted by F.I.A.
OTHER SIZE ON REQUEST



Easyfire brackets

EASYFIRE brackets with latch, safety pin antivibration.

20917 3 kg Ø 130

20910 6 kg Ø 160

20908 12 kg Ø 190



Bracket type "C"

Bracket for cylinders with back hook type "C". Metal latch and safety.

20919 6 kg, Ø 160

20919_1 9/12 kg, Ø 190

Antivibration adherent to the wall

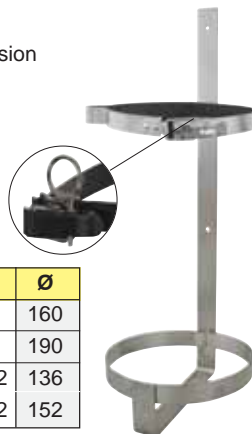


Brass safety pin, antivibration.

Stainless steel brackets

Stainless steel with safety pin. Hard and anti-corrosion MARINE USE.

Cod.	Type	Ø
20094	kg 6	160
20404	kg 9/12	190
20095	kg 5 CO2	136
20095_1	kg 5 CO2	152



Hard steel brackets

Hard steel For trucks and heavy machines. For fire extinguishers kg 6, 9, 12. Rubber antivibration. Safety pin lockable. Very strong steel plate.

21138 6 kg

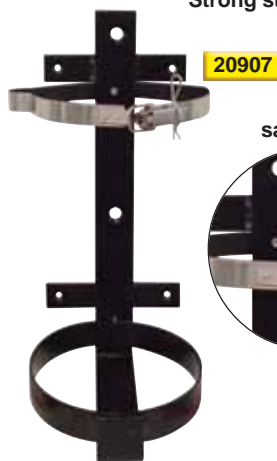
21138_9 9/12 kg



Brackets for cars, truck, marine use

Strong steel, latch, safety pin, horizontally or vertically.

Brackets for powder and foam fire extinguishers kg 9/12 and 9 lt diameter 190 mm. Suitable also for extinguisher with hook welded on the back of cylinder type "C".



20907

With safety pin



Cod.	Kg /Lt	Ø
20907	6	160
20093	9/12	190
20918	4	140

Cod.	CO2	Ø
20061	kg 2	104 Acc.
20916	kg 2	111 All.
20915	kg 5	152 All.
20047	kg 5	136 Acc.



20906

Universal AMERICA bracket

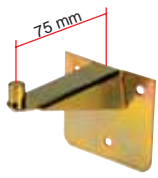
20920 Can firmly hold any fire extinguisher 6/9/12 KG up to 200 mm diam. Strong steel structure, 2 hard durable rubber latches



Wall brackets for extinguishers

21001

Wall brackets for valve with hole holder type "V"



21009

For kg 2 CO2 diam 110 ~ 130 mm



21085

Wall bracket for extinguisher Anti-magnetic



20052

Wall bracket for extinguisher with hook welded on the back of cylinder type "C".



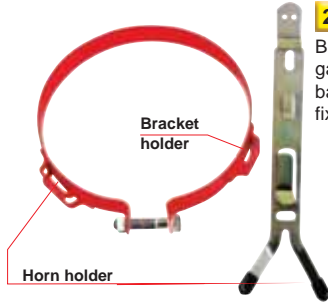
Special brackets for CO2

20432

Ring to fix horn on 5 kg CO2 aluminium cylinder (152 mm)

20433

Ring to fix horn on 5 kg CO2 steel cylinder (136 mm)



20431

Bracket steel galvanized back cylinder fixing

Hose holder

20034

Hose holder for extinguishers Ø160 mm 6 kg



20015

Hose holder for extinguishers Ø190 mm 9/12 kg



20000

Hose holder CO2 for extinguishers 5 kg cylinder Ø140



Plastic belt

20480

For 6 kg diam. 160 mm Black

20480_1

For 9-12 kg diam. 190 mm Black



Plastic clips

20098

Plastic Clips for kg 6-12 internal cartridge.



20104

Magnet hose holder



Plastic foot

Plastic foot diam. 160 mm available in different color.

- 21048** Black color
- 21048_1** Chrome color
- 21048_2** Cream Color
- 21048_3** Blue color
- 21048_4** Yellow color



RAIN AND DUST COVERS

With white imprint. Made of fabrics and reinforced vinyl with velcro closures. They protect from rain, dust, corrosion.

FOR PORTABLE FIRE EXTINGUISHERS

91008

for 6 kg
64 x 34 cm



91009

for 9 kg
73 x 39 cm



91011

for 12 kg and CO2 5 Kg
82 x 40 cm



Back side
Look with
Velcron

FOR TROLLEY FIRE EXTINGUISHERS

POWDER AND FOAM

91010

for 25-50 kg
140 x 90 cm

91012

for 100 kg
160 x 90 cm

91013

for 150 kg



CO2 - CARBON DIOXIDE

91030

for 10 kg
100 x 46 cm

91032

for 20 kg
H: 115 x 70 cm

91031

for 30 kg
140 x 70 cm

91033

for 50 kg
160 x 70 cm

FOR FOAM MOBILE UNIT

91013

for 200 LT
125 x 60 x 95 cm



FOR TWIN AGENT

91014

for 50+ 50
150 x 90 x 90 cm



Available on custom size and printing request.

Technical data are subject to modification for improvements without prior notice

Manometer M10x1 with O-ring (box 25 pcs)

21045 O-ring box 100 pcs

20521 Ebur
Ø 23 membrane bar 7-10-18

21511_1 Ebur
Ø 23 with spring Mpa 1-1,4-1,7

21511
Ø 23 with spring Mpa 1-1,4-1,7

21521
Ø 27 with spring Mpa 1-1,4-1,7

20532
Ø 35 mm membrane Mpa 1-1,4-1,7

20532_1
Ø 35 mm membrane Mpa 0,7-1-1,8

20515 (box 25 pcs)
Ø 23 membrane Mpa 1,2-1,4-1,6

21531
Ø 36 with spring Mpa 1-1,4-1,7 wide scala american style

21522
Ø 27 membrane Mpa 1,15-1,4-1,7

21534
Ø 27 membrane bar 10-13-17

20535
Ø 42 Bourdon bar 12,5-1,4-17,5 BEST QUALITY

Manometer without O-ring 1/8" npt (box 25 pcs)

20519 spring
20520 membrane
Ø 23 bar 10-14-17

20511
Ø 23 spring american style bar 12-14-18

20518 Ebur
Ø 23 membrane bar 7-10-16

20516 Ebur
Ø 23 membrane Bar 11,5-13-17

20533 Ebur
Ø 35 spring, Mpa 1-1,4-1,7

20531 Ebur
Ø 36 spring Mpa 1-1,4-1,7 Wide scale

20523
Ø 42 Bourdon Bar 10-14-17 npt 1/16" BEST QUALITY

20500 Small pump to test pressure gauges and manometers.

20524 Ebur
Ø 35 membrane Bar 10-14-17 npt 1/16" per

all gauges with filter to avoid contact with dry powder - gauges for foam are without filter

Hose for powder, water and Fover fire extinguishers

Cod.	Connection	Ø mm	cm	for POWDER
21648	1/4"m	13x20	45	13131 3 kg
21654	1/4"m	13x20	52	13142 4 kg
21612	1/4"m	10x19	53	for all 6 Kg
21614	1/4"m	10x19	60	13192 9 kg
21615	1/4"m	10x19	65	13172 12 kg
21620	M16x1,5	13x22	61	13163 6 kg estoria
For extinguishers with internal cartridge 6/9/12 kg				
20659	1/4"M	13x20	655	for all type

Cod.	Connection	Ø mm	cm	for FOAM
21647	1/4"m	13x20	42	13331- 13420 - 13440
21616	1/4"m	10x19	52	13362 - It 6
21651	1/4"m	10x19	105	13365 - It 6 class F
21617	1/4"m	10x19	60	13392/3 - It 9
21619	m16 x1.5	13x22	52	13366 - It 6
21618	m16 x 14x1.5	13x20	52	13367 - It 6 - 13394 - It 9

Hose for powder P6 stored pressure

Steel nozzle **21612**

Plastic nozzle **20617**

Sintetic rubber. Burst > 55 bar.
Coupling galvanized steel

Hose for FOAM

1/4" ONLY PIPE
21616 for It 6
21617 for It 9

ONLY NOZZLE
21032 for It 6-9
21143 for It 2

Complete with nozzle Clean Gas Fover

21647 for kg 2 / 4
21649 for kg 6

Hose and horn for CO2 portable fire extinguishers

21029 Horn original A.B.S.-SNOW with 1 hook standard. CO2 kg 5, kg 20 and kg 30 (Internal nozzle 20010 not included)

Standard hook.

Optional hook.

21633 Hose L = 700 mm for 5 kg horn 21029 original A.B.S.

W 21,8f

3/8" f

20010 3/8" Nozzle Fixed into the horn

21634 Complete hose with horn L=70 cm 5 kg

W 21,8 f

21030 CO2 horn with plastic net kg 2 CO2

21030_1 With metallic net

W 21,8 F

21037 Rubber gasket 19x11x3 for CO2 horn kg 2

20654 Hose with handle L = 700 mm for horn kg 5 21030

W 21,8 F

Ø 21,8 M

Metal hook

21630 Complete hose with horn L=700 mm 5 kg

20654 Hose

Ø 21,8 m

W 21,8 F

21030 Only horn

Hose for trolley fire extinguishers

CO2 PT 250 bar PS>600 bar



Cod.	Connection	mt	for trolley
20631	21,8 fg x 3/8" f	10	K 10
20634	21,8 fg x 3/8" f	5	k 20 exp
20652	21,8 fg x 3/8" m	5	K 20 MED
20652_1	21,8 fg x 3/8" m	5	K 30 MED
20652_10	21,8 fg x 3/8" m	10	MED exp
20652_5	21,8 fg x 3/8" m	5	MED exp
20652_6	21,8 fg x 3/8" m	6	MED exp
21631	21,8 fg x 1/2" m	2.5	K 20
21632	21,8 fg x 1/2" m	3.5	K 30
21642	1/2" fgo x 1/2" m	4.5	K 60 bibom

Powder PS 20 PT 40 bar Burst>60 bar



Cod.	Connection	mt
20640	3/4" fgp x M18x1,5 m	5
20640_1	3/4" fgp x M18x1,5 m	10
20640_5	3/4" fgp x M18x1,5 m	5
21621	3/4" fgp x M18x1,5 m	3.7
21624	3/4" fgp x 3/4" k45 ms	4.7
21640	3/4" fgp x 1 fsp	3.7
21641	1" K45 fgp x 1" fsp	4.7
21622	3/4" fgp x 3/4" k45 ms	3.7
21623	3/4" fgp x 3/4" k45 ms	3.7

Foam PS 20 PT 40 bar Burst>60 bar



Legend: f = female s = swivel p = flat k = elbow
m = male o = ogive g = swivel

Cod.	Connection	mt
20009	3/4" kfgp x 3/4" k45 mg	5.8
20655	3/4" kfgp x 3/4" K45 mg	5.1
20655_1	3/4" kfgp x 3/4" K45 mg	10
20656	3/4" kfgp x 3/4" K45 mg	5.4
20656_1	3/4" kfgp x 3/4" K45 mg	10

Legend m=male f=female g=swivel p=flat seat s=flared seat k=elbow

Foam nozzle for trolleys

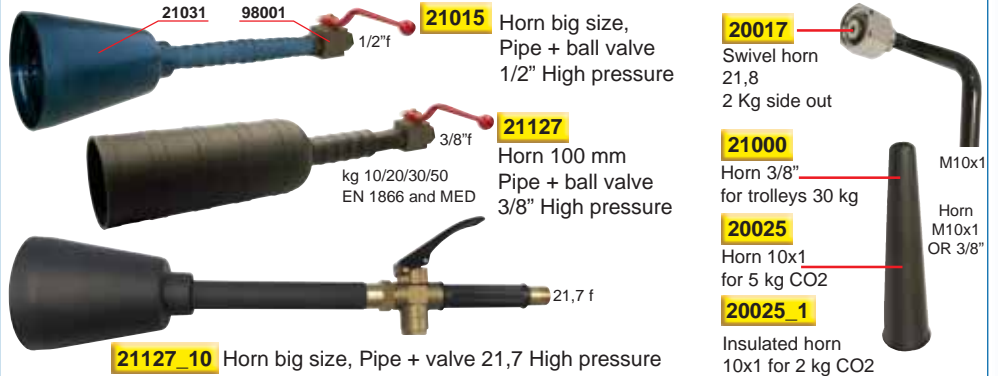
21006 Ø 6,5 - 50,100,150 lt

21007 Ø 12 Rapid discharge for Twin Agent 2 Lt/sec



Aluminium, for trolleys approved **SEALFIRE**

CO2 discharge apparatus



Pistol for powder extinguishers, made in Europe high quality

21118 For extinguishers kg 6 / 9 / 12 Internal cartridge



21035 For trolleys powder fire extinguishers kg 30



Made in Europe, high quality

21035_1 Swivel coupling Avoid twisting when unrolling the hose



21038 Powder horn for 50 kg

21039 Powder horn for 100

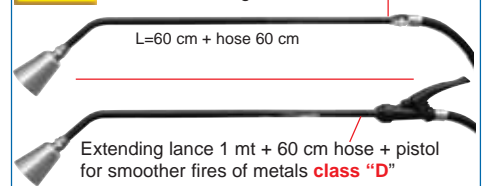


21038_2 Aluminium discharge horn for trolleys. 3/4"m. 50 / 100 kg.

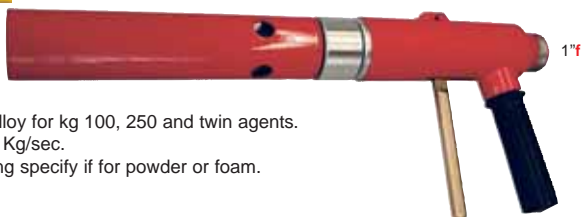


21136 Powder extending lance 1/4" m

21137 Powder extending lance M14x1,5



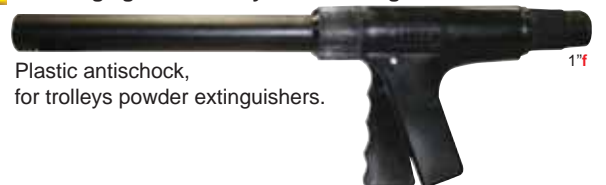
20099 Discharge gun



Light alloy for kg 100, 250 and twin agents. Flow 2 Kg/sec. Ordering specify if for powder or foam.

20425 Discharge gun for trolleys powder extinguishers

20425_8 Discharge gun for trolleys foam extinguishers



VALVE (complete with brass or stainless steel safety pin, not in galvanized steel)

2

For extinguishers 1 kg

21807 Import
21807_3 CPE made in ITALY
21812 M 24x1,5 made in ITALY

21807_1 Stainless steel lever

For extinguishers 2 kg

21806 Import
21806_3 CPE made in ITALY

21806_1 Stainless steel lever

For extinguishers from 3 to 12 kg

21821 Import
21810 CPE made in ITALY
21821_1 Foam (import)

21821_2 Stainless steel lever

For extinguishers 6 kg - 6 lt

21815 for 6 kg
21815_1 for foam 6 lt

21815_1 for foam 6 lt

21815_1 Set with bursting disc 24 bar

For trolleys 30-50-100 kg powder / foam

21801 Import
21801_1 CPE made in ITALY

21801_1 Bursting disc 24 bar

21801_1 Oring 21052_1 High thickness

21801_1 2" Female O-Ring 21052

21801_1 Ø neck ring on the cylinder 45 mm EN 1866

For trolleys 30-50-100 kg

21820 Powder
21820_1 Foam

21820_1 Optional with handwheel

21820_1 Double O-ring 21012

21820_1 Ø neck ring on the cylinder 50 mm EN 1866

21803 CPE 170/200 bar made in ITALY
21803_1 Import 170/200 bar
20807 250 / 295 bar

CO2

21803_1 Green cup protection safety disc

21803_1 Ø 6
 H=48 mm import

21819 Import 170/200 bar
21804 CPE 170/200 bar
21804_1 made in ITALY 195/230 bar

CO2

21804_1 Green cup protection safety disc

21804_1 O-ring 21086

21804_1 Ø 6
 H=41 mm CPE
 H=48 mm import

21804_1 21800 Non magnetic, stainless steel lever

For external cartridge extinguishers

20803 185 / 215 bar

CO2

20803_1 Green cup protection safety disc

20803_1 Ø 6
 H=48 mm import

20803_1 21818 Import
 20818_1

For trolleys CO2 extinguishers K10 - K20 - K30 - K50 - K60

21802 3/4"-25E 170/200 bar
21802_1 3/4"-25E 250 / 290 bar
20805 21,8 M
CPF 1"-32E 170/200 bar
CPF 3/4" npt 25E 32E

CO2

21802_1 Green cup protection safety disc

21802_1 Ø 6
 H=48 mm import

For trolleys CO2 extinguishers

20831 CPE made in ITALY
 M 25x2 170/200 bar

CO2

20831_1 Green cup protection safety disc

20831_1 Ø 6
 H=48 mm import

21805 CPE 21,8 F Made in ITALY
21818 Import
21818_1 CPE Made in ITALY W24,32 X 1/14" DIN 477 maschio

NITROGEN

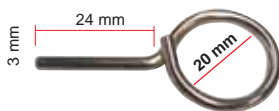
21818_1 Green cup protection safety disc

21818_1 Ø 6
 H=48 mm import

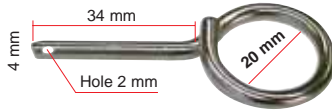
21818_1 Burst disc at 250 bar is not compulsory but increase safety

SAFETY PIN

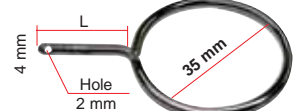
21053 L=24 mm Brass chromed. Package 100 pcs



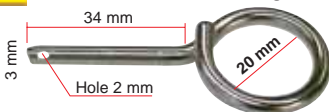
21096 L=34 mm Steel galvanized. Package 100 pcs



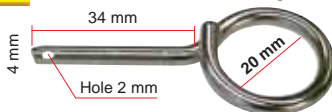
20406 L=24 mm Brass chromed. Package 100 pcs Kg 1-2



21089 L=34 mm Brass chromed. Package 100 pcs



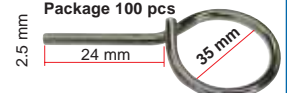
21018 L=34 mm Brass chromed. Package 100 pcs



20006 L=19 mm Brass. Package 100 pcs



20006 L=24 mm Brass chromed. Package 100 pcs



Sprinkler for automatic fire extinguishers

24001 Standard 68°C Red
24003 a 93°C Green
M30 x 1,5

68° 93° 141°
Manometer 1/8" F npt
Package. 10 pz

25014 Spare bulb kit 68°C
25006 Spare bulb kit 93°C

24002 Complete valve with bulb set at 93°C
Optional: 141°C

Optional:
Pressure switch 23009

Check valve

Manometer 1/8" F npt

M30 x 1,5

Connection for:
Pyroactuator 43001
or manual actuator 20412.

Automatic valve for Firekill

25000 Complete valve with bulb set at 93°C

Optional
41006 wire 5 mt

3/8"m 3/8"m

43001 Optional
Electric actuator, 0,3Amp.

Spare bulb set at:
25002 68°
25008 93°
25005 141°

M30 x 1,5

Suitable for small Powder, Foam or gas FM200 system .

2

21028 adjustable
Safety valve
22/26 bar
M30x1,5
High flow

21044 O-ring

28024 adjustable
Safety valve
22/26 bar.
1/4"

28024_18 Safety valve
17/19 bar.
1/4"

21010
Check valve
1/8" npt

Package 10 pcs

21021 Safety disc
for trolley with 2" valve
EN1866
Package 25 pcs

Nut not included
CPF
22/26 bar

21019 Nut safety valve
Package 25 pcs

21022 Spring safety valve
with washer
original CPF

21020 Washer + Disc
for CO2 valve
CPF
170/200 bar 2 pcs

21020_1 195/230 bar 2 pcs

Nut not included - Package 25 pcs

21142 Safety disc for
import valves
CO2 170/200 bar

Package 25 pcs

20790 Green cup protection
safety disc

Package 100 pcs

21025 Check valve
for manometer

21050 Key to remove
check valve 21025

Piston for valve of portable fire extinguishers (Package 50 pcs)

for CO2

21023 CO2 3/4" npt (21809) import

21024 CPF
CO2 M25 x 2 (21804)

21063 CO2 M25 x 2 (21819) exp

For Powder

21027 CPF
Powder kg 6/12 (21810)

21249 Powder/Foam M45 x 1,5
(21815-21815_1)

21060 Powder kg 6/12 (-21821) imp

21026 CPF
Powder kg 1/2 (21806 21807)

21025 Check valve
piston model
Schroeder
Package 25 pcs

O-rings for valve, piston, manometer

Valve M30 x 1,5

CO2 Valve M25x2

O-Ring piston

Cod.	Description	Dimensions mm int. x Ø	Package pcs
O-ring for VALVES			
20028	M 24 x 1,5	23,39 x 3,53	100
20083	M 25 x 2 CO2	24,99 x 3,53	100
21044	M 30 x 1,5	29,74 x 2,95	100
21248	M 45 x 1,5	32,92 x 3,53	100
20038	M 74 x 2 Internal cartridge	60 x 4,5	10
20080	1" Trolleys	O-Ring 1"	100
20112	2" 2 pcs (Trolleys valve 21820 50 mm)		25
21052	2" Th.2,6 (Trolleys valve 21801 CPF 45 mm)		25
21052_1	2" Th.3,5 (Trolleys valve 21801 CPF 45 mm)		25
O-ring for MANOMETER M10x1			
21045	M10 x 1	7,6 x 1,8	100
O-ring for PISTON (CPF Valve M30 x 1,5)			
21047	Small		100
21046	Big		100
20037	Hose Internal cartridge	12,42 x 1,78	100
21055	Pistol (21035)	13,1 x 2,62	100
21056	Spray nozzle (21032)	11,91 x 2,62	100
21092	Safety valve (21091)	15,08 x 2,62	100

Gasket

POLYTHENE for trolleys
Foam or powder

FIBER for extinguishers
CO2 or Powder

20049 Polythene
3/4" Ø 24x3x2
Package 100 pcs

20021_1 Polythene
Foam trolleys.
Ø 19x11x 2
Package 100 pcs

21036 Fiber
Ø 18,5x11,6x2
Package 100 pcs

20021 Fiber
3/4" Ø 24x15,2x2
Package 100 pcs

RUBBER
for CO2 horn Kg 2

21037 Rubber
Ø 19x11x3
Package 100 pcs

Technical data are subject to modification for improvements without prior notice

2" Cap for trolleys fire extinguishers

28024
Safety valve
22/26 bar 1/4"

28024_18
Safety valve
17/19 bar 1/4"

21034_1
2" Cap with 1/4"
connection
for safety valve



21156
O-ring
1,78x11,1x14,66

20022
2" cap washer
56 x 41 x 3 mm

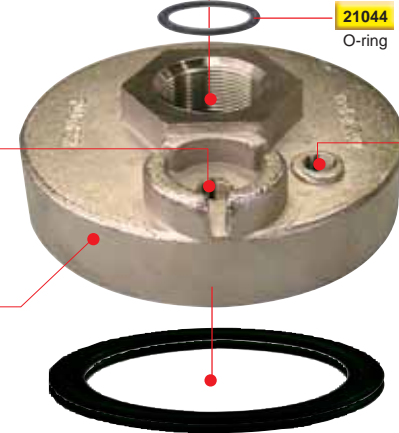
4" Cap for trolleys fire extinguishers

20519
Manometer Ø 23
1/8" npt Mpa 1-1,4-1,7

21028 Safety valve
22/26 bar M 30x1,5 high flow
adjustable



21042
4" Cap ABS



21044
O-ring

21010
Check valve
1/8" npt

21041
4" cap washer
115 x 95 x 2 mm

2" Cap for portable fire extinguishers

21034
2" Cap
Complete with
safety valve

21019
Nut
safety valve

21022
Spring safety
valve complete
set



20022
2" cap washer
56 x 41 x 3 mm

4" Cap for foam trolleys fire extinguishers

21010
Check valve
1/8" npt

20520
Manometer Ø 23
1/8" membrane
bar 10-13-17



28024
Safety valve
22/26 bar 1/4"

21156
O-ring
1,78x11,1x14,66



21144
4" cap
for foam
trolleys

21041
4" cap washer
115 x 95 x 2 mm

Accessories for extinguishers with external or internal cartridge

20040 Brass cap M74 x 2
for extinguishers
with internal cartridge

20824 Brass valve M74 x 2
for extinguishers
with internal cartridge

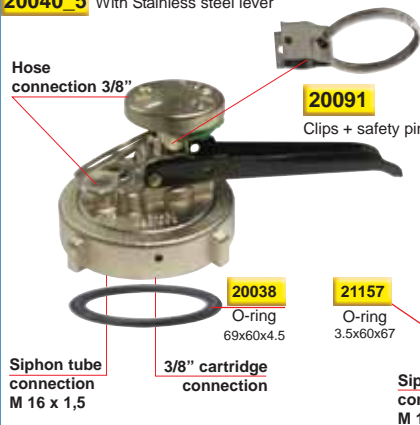
20408
10 mm
Cartridge disc

20040_5 With Stainless steel lever

20824_5 With Stainless steel lever

Hose
connection 3/8"

20091
Clips + safety pin



20038
O-ring
69x60x4,5

21157
O-ring
3.5x60x67

Siphon tube
connection
M 16 x 1,5

Siphon tube
connection
M 16 x 1,5

3/8" cartridge
connection

20131
55 gr CO2

20177
gr 55, 3/8" kg 6 - h = 275 mm

20180
gr 150, 3/8" kg 6 - h = 275 mm

20208
gr 180, 3/8" kg 9 - h = 364 mm

20300
gr 210, 3/8" kg 12 - h=415 mm

20201
160 gr

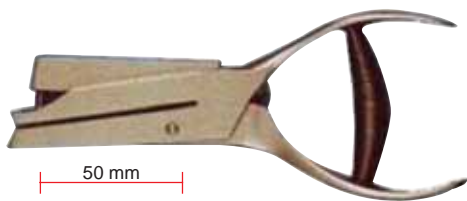
20351
350 gr

20201
CO2 External
cartridge complete
with valve

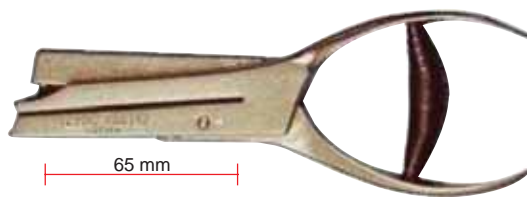
Fill CO2 cartridge

Punching pliers

21131_1 Hole punching for tag of maintenance labels.
On request with triangular, star, square, ecc hole.



21132 Hole punching for tag of maintenance labels.
On request with triangular, star, square, ecc hole.



Holes on request



28054 Cover for punching pliers
Suitable for maintenance.
for punching pliers: 21131 e 21132



21124 Hole punching for tag of maintenance labels.



21125 Collar ring

Collar ring EN3.7 useful after a recharge, can be punched with pliers.
On request your logo min 5.000 pcs.



28035 Service label

Service label for manometer and internal pressure



International register
N°0307713

28038

Multiple service label for:
Recharge Test for extinguisher, hose, hydrant and system.



LABELS

A RICHIESTA STAMPA VOSTRO LOGO OPPURE ANONIMI DA TIMBRARE

CARTELLINO DI MANUTENZIONE ATTREZZATURE ANTINCENDIO

PROV. CE	PROV. CO	PROV. TO	PROV. VA	PROV. SV	PROV. BA	PROV. NA	PROV. SA	PROV. BR	PROV. TA	PROV. CR	PROV. TR	PROV. PG	PROV. SI	PROV. RA	PROV. RM	PROV. FR	PROV. FI	PROV. AR	PROV. GR	PROV. LT	PROV. CA	PROV. CB	PROV. CL	PROV. CM	PROV. CN	PROV. CO	PROV. FG	PROV. FM	PROV. GN	PROV. IS	PROV. LC	PROV. LI	PROV. MN	PROV. MO	PROV. MS	PROV. MT	PROV. NN	PROV. NO	PROV. OR	PROV. OT	PROV. PC	PROV. PE	PROV. PI	PROV. PR	PROV. PS	PROV. PT	PROV. RA	PROV. RC	PROV. RG	PROV. RM	PROV. RN	PROV. SA	PROV. SB	PROV. SC	PROV. SH	PROV. SI	PROV. SR	PROV. SS	PROV. TA	PROV. TC	PROV. TN	PROV. TP	PROV. TR	PROV. TV	PROV. UD	PROV. VA	PROV. VC	PROV. VE	PROV. VI	PROV. VR	PROV. VS	PROV. VT	PROV. VV
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TIPOLOGIA DI INTERVENTO

MANUTENZIONE	RICARICA	TEST	VERIFICA	REVISIONE	ALTRA																																																																				
PROV. CE	PROV. CO	PROV. TO	PROV. VA	PROV. SV	PROV. BA	PROV. NA	PROV. SA	PROV. BR	PROV. TA	PROV. CR	PROV. TR	PROV. PG	PROV. SI	PROV. RA	PROV. RM	PROV. FR	PROV. FI	PROV. AR	PROV. GR	PROV. LT	PROV. CA	PROV. CB	PROV. CL	PROV. CM	PROV. CN	PROV. CO	PROV. FG	PROV. FM	PROV. GN	PROV. IS	PROV. LC	PROV. LI	PROV. MN	PROV. MO	PROV. MS	PROV. MT	PROV. NN	PROV. NO	PROV. OR	PROV. OT	PROV. PC	PROV. PE	PROV. PI	PROV. PR	PROV. PS	PROV. PT	PROV. RA	PROV. RC	PROV. RG	PROV. RM	PROV. RN	PROV. SA	PROV. SB	PROV. SC	PROV. SH	PROV. SI	PROV. SR	PROV. SS	PROV. TA	PROV. TC	PROV. TN	PROV. TP	PROV. TR	PROV. TV	PROV. UD	PROV. VA	PROV. VC	PROV. VE	PROV. VI	PROV. VR	PROV. VS	PROV. VT	PROV. VV

Scadenza ricaricato

2013	2014	2015
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NORMA UNI 9994

Scadenza Estinguente

2013	2014	2015
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

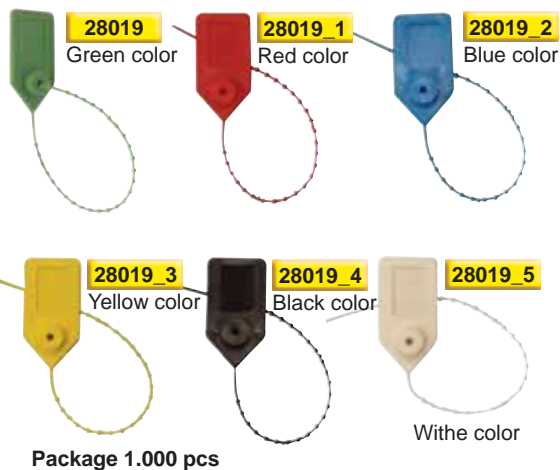
NORMA UNI 9994

28036
28037
Dimensions 4 x 5 cm

Seals

Colored seal

Anti tamper seal for fire extinguishers valves.
It is possible to mark your logo for minimum quantity of 10,000



Plastic seal

28046
Anti tamper seal for fire extinguishers valves.



Possible to mark the logo

Package 100 pcs

20004 Service label holder
Polipropilene service label holder



28022 Plastic seal numbered

Anti tamper seal, with serial number. It permits recording the number during periodical maintenance.



20005 Safety pin holder for service label



28014 Lead seal 8 mm



28045 Roll of wire

Roll of wire to use with lead seals



28004 Nylon seal

Anty tamper seals nylon



Package 1.000 pcs

28015 Red seal

Plastic red seal. Short



Package 1.000 pcs

Nitrogen and CO2 external cylinder filled for trolley fire extinguishers, TT T-PED

Nitrogen N2 T-PED for MED / EN1866

trolley fire extinguishers

Valve 21818_1

CPF Italy

Outlet W 24,32



Cod.	Volume LT	Press. bar	Ø mm	H mm
41231	2	105	104	445
41231_1	2	180	104	445
41231_2	2	150	104	445
41231_3	2	140	104	445

Cod.	Volume LT	Press. bar	Ø mm	H mm
41230	3	140	104	570
41230_1	3	155	104	570
41230_2	3	160	104	570
41230_3	3	190	104	570
41230_4	3	180	104	570

Cod.	Volume LT	Press. bar	Diam mm	H mm
41232	7,5	90	140	770
41232_1	7,5	115	140	770
41232_2	7,5	135	140	770
41232_3	7,5	150	140	770
41232_4	7,5	190	140	770

CO2 T-PED for MED / EN1866 trolley fire extinguishers

Valve 21802

Outlet W 21,8

CPF Italy



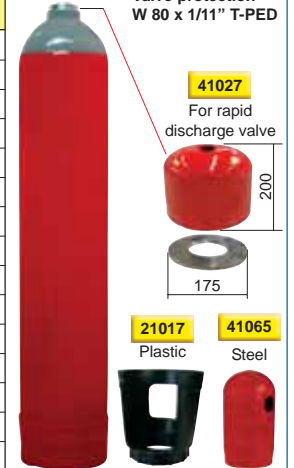
Cod.	Filled with kg	Diam mm	H mm
41199_1	1,3	105	570
41199	2	105	570
41236	4	136	600
41219	3,2	136	600

CO2 Empty cylinder from kg 2 to kg 50

Cod.	Description	Kg.	Lt.	Ø mm	Thread
21103	Ped	2	3	110	M25 x 2
20211	T-ped	2	3	105	3/4" 25E
20109	RINA T-Ped	2	3	105	3/4" 25E
20302	Ped	2	3	105	M25 x 2
21105	Ped Alum.	2	3	111	M25 x 2
20105	T-Ped	4	5,4	105	3/4" 25E
20204	Ped	4	5,4	136	3/4" 25E
20205	Ped 300/450 bar	5	6,7	136	3/4" 25E
21107	Ped	5	7,5	139	M25 x 2
21108	Ped	5	7,5	136	M25 x 2
21109	Ped	5	7,5	136	3/4"
21208	Ped Alum.	5	7,5	152	M25 x 2
21210	RINA T-Ped	5	7,5	136	3/4" 25E
21211	T-Ped	5	7,5	136	3/4" 25E
20206	Ped	6	8	136	M25 x 2



Valve protection W 80 x 1/11" T-PED



Wheels for trolleys

Cod.	Ø	M	F	Kg max	Note
20905	80	--	--	150	Swivel
20947	80	--	--	150	Swivel
20911	100	--	--	70	Swivel
20912	150	--	--	150	Swivel
20941	350	80	25	200	Rubber / plastic
20942	350	80	25	200	With ball bearing
20943	410	80	25	300	With ball bearing
20944	400	80	25	300	With ball bearing
21921	200	47	20	120	Rubber / plastic
21931	300	57	20	150	Rubber / plastic
21941	400	85	25	180	Rubber / plastic

Swivel diam 80, 100 and 150 mm



Carrying CO2 cylinder

Cod.	Model	Ø	Wheel
20087	x 2 kg 30	203	400
20045	x 1 kg 45	273	300
21014	x 1 kg 30	227	300

Tubular frame for transporting cylinders of compressed gases. Complete with wheels and chains holders NITROGEN, CO2, ACETILENE.

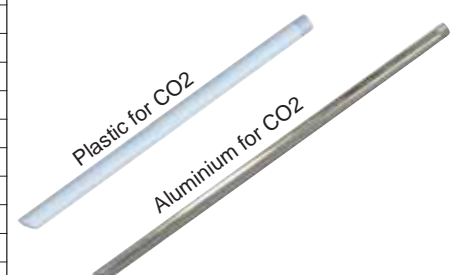
Spare part for Co2 trolley fire extinguishers 30 / 45 kg



Siphon tube for portable and trolley fire extinguishers

Cod.	Ø pipe	L/mm	Ext. Type
21700	16x12x1,5	260	Powder kg 1
21734	16x12x1,5	295	P kg 2
21733	16x12x1,5	307	P kg 3
21738	16x12x1,5	380	P kg 4
21736	16x12x1,5	420	P kg 6
21713	16x12x1,5	390	P kg 6
21714	16x12x1,5	465	P Kg 9
21709	16x12x1,5	525	P Kg 12
21711	3/4"x21	760	P kg 30
21715	3/4"x21	860	P kg 50
21708	3/4"x27	1080	P kg 100

The dimensions can be subject modification, check the technical data sheet, check before installation



Accessories for maintenance

Nitrogen cylinder 200 bar
cap. 7.5-14-27-40 lt

Pressure reducer
200 - 0/20 bar
28009_3

Pressure reducer
200 a 0/100 bar
28010

Stainless steel pliers

Pressing the lever the pliers connect the valve 1/4" no tools, time saving. Maintenance free.

Spiral mt 3 complete with quick connector W.P. max 20 bar
98316

97105 Quick connector female

20029 Nozzle adaptor 1/4"

97140 Nozzle adaptor 1/8"

21266 Reduction M16 x 1,5 x 1/4"

98015 1/4"m

98015_1 1/8"m

Quick connection to the spiral **98015**

2

Inspection lamps

21123_1 Includes batteries, inspect inside cylinders for rust, corrosion or damages.



28007 Liquid seal

Adhesive for sealing of metal thread pipe joints. Suitable for gas, LP gas, compressed air, gasoline and oil, industrial fluids, CFC, potable water and several chemicals. Low friction coefficient will assure easy assembly.



28005 Liquid seal

Medium strength for sealing hydraulic and pneumatics threads connectors up to 1 1/2". To replace P.T.F.E. tapes in the sealing of gases, water, LPG, hydrocarbons, oils and other chemicals.

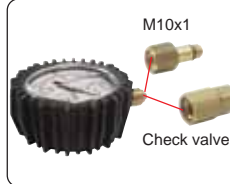


Test gauge for fire extinguisher

20065 25 bar for powder and foam
Coupling: M10x1 and 1/8"
For check valve 1/8"
For manometer with O-ring M10 x 1



Check the pressure of stored pressure extinguishers



98160 300 bar for nitrogen
Coupling: 21,7 M
Coupling: 24,32 F



Check the pressure on the nitrogen cylinder.



Kit torque force spanner for CO2 and powder valve for fire extinguishers

To lock valves on extinguishers according PED 97/23 standard which specify that they must be tightened with torque force specified by the manufacturer. Included shown accessories.



98023_1 Case package :

- 1 Torque force 98023 spanner from 20 to 100 Nm.
- 1 Torque force 98024 spanner from 40 to 200 Nm.
- 2 Accessories powder extinguishers from 1 to 12 kg.
- 1 Accessories for trolleys and extinguishers with internal cartridge.
- 2 Accessories from 28 to 30 mm CO2 valve.

98023 Torque force spanner powder extinguishers 20/100 Nm.

98024 Torque force spanner CO2 extinguishers 40/200 Nm.



EXTINGUISHER PRESSURE TEST

The **21260** is a digital pressure gauge suitable for checking the pressure of the extinguisher during the regular maintenance.

Is possible print a receipt of the test result by the infrared printer supplied. The test results can be stored in memory.

2



TECHNICAL CHARACTERISTICS

Pressure range	0. +35 bar
Resolution	0.1 bar
Accuracy	±1% fs
Display	LCD 8 characters on 2 lines
Battery	Li-ion 3.6 Vdc 1.1 Ah
Average battery duration	30 hours
Battery charging time	4 hours
Pneumatic connection	M 10x1
Weight of the case Approx.	1.4 Kg
Printer	External infrared printer; paper width 58 mm
Power	230 Vca external power supply for charging or direct power (also for the printer).
Operating temperature	-5 + 60°C
Storage temperature	-20 + 85°C
Max applicable pressure	65 bar

AC999 conforms to the provisions of standard EN 3-7/2005

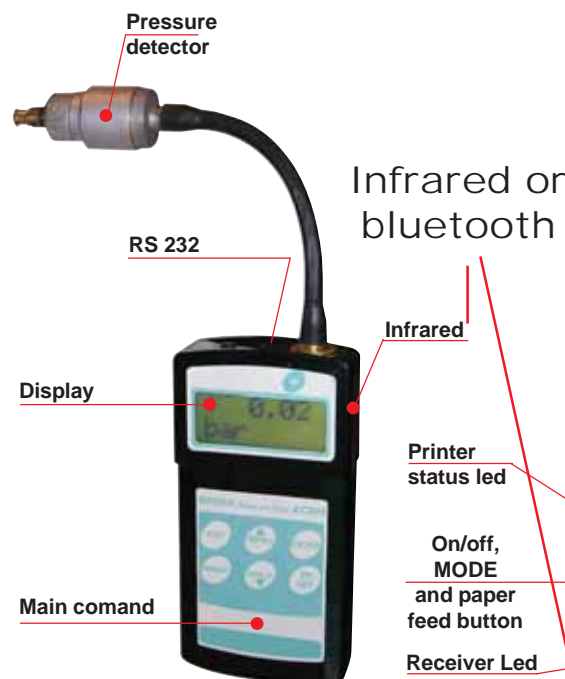
Package includes:
all the accessories shown on this page.

SIMPLY & FAST

Remove the manometer and connect the sensor to the valve



The pressure will be shown on the display



Press the print button and the multiple service label will be printed.



ELECTRONIC SCALE AND DINAMOMETERS

Platform scale for trolleys

94001_1 Digital 4 cells platform scales 2.000 kg

This platform with very low height profile, is ideal to measure the weight of trolleys, pallets, packing. Large display may be fixed on wall or with a stand pole. Precision 200 gr. Load cell electronic. Cable 6 mt.



Over models available

Dim: 120 x 150 x 10 cm

Max weight 2.000 Kg

Portable dinamometer

94003

Portable dinamometer
Max weight 30 kg
Ideal to weight on site.
Precision: 50gr
Dimension: 180x100x30 mm
Uses 1 battery type: CR2032
Battery life: > 400 Hours.



30 kg

94010

Portable dinamometer
Max weight 50 kg
Ideal to weight on site.
Precision: 50gr
Dimension: 180x90x30 mm
Uses 1 battery type: CR2032
Battery life: > 400 Hours.



50 kg

94010_1 Certified



2

94004

Electronic balance. Load cells
LIGHT, COMPACT, PRECISE.
Large display, stainless steel scale-pan.
Maximum weight capacity : 30 Kg
Weight HIGH precision : 2 gr
Scale-pan dimensions : 25x25xH15cm
Power supply : 220 Vac + battery charger included



30 kg

94005

Electronic balance. Load cells,
Programmable electronic display.
At desired pre-set weight will stop engine.
Can be used in combination with CO2 and powder filling machine for automatic and safe filling process. Stainless steel scale-pan.
Maximum weight capacity: 60 Kg
Weight precision: 10 gr
Scale-pan dimensions : 30x40 cm
Power supply : 220 Vac + battery charger included. **stainless steel scale-pan.**



60 kg

94002

Electronic balance. Load cells
Electronic display over metallic pole and **stainless steel scale-pan.**

Maximum weight capacity: 60 Kg
Weight precision: 10 gr
Scale-pan dimensions: 30 x 40 cm
Large display
Power supply: 220 Vac - 50 Hz



60 kg

Multi use scale

94006

Electronic balance scale.
Programmable electronic display.
At desired pre-set weight will stop engine.
Can be used in combination with CO2 and powder filling machine for automatic and safe filling process.
2 mt cable.
Stainless steel scale-pan.
Rechargeables batteries
Includes battery charger
220 Vac - 50 Hz



200 kg

Maximum weight capacity : 200 Kg
Weight precision : 100 gr
Dim : 80 x 60 cm

94001

Electronic weighing scale 300 kg
Accuracy 100gr,
Base 900x550x70 mm
With rechargeable battery

Light weight, portable



300 kg



Example at floor level.



Example with lifting platform

94007

Lifting platform

“CARES” Refilling powder 98200_1

98200_1 Refilling powder

NEW refilling powder “CARES”, adopting a system of lifting spring, no need to operate levers or handwheels.

BEST SPEED

Suitable to fill and emptying portable and trolleys fire extinguishers.

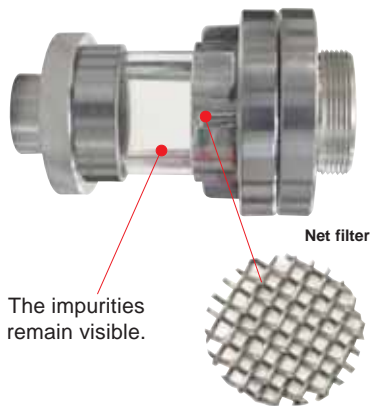
Compact steel frame on wheels, provides excellent maneuverability. Inspection transparent plexiglass sleeve. Effective filter, **extremely clean**. Powder flows through a filter that prevent dirty or objects to go inside extinguisher. Electrical motor 220 V. 50 Hz, 1.000 W. It refill 6 kg cylinder in less than one minute. Dry powder is aspirated from the sac and poured inside cylinder.

OPTIONAL

To be combined with an electronic scale (not included in the delivery) to verify a correct and precise weight of the powder into the cylinder.

Filter Kit 98200_7 on the suction pipe

98200_7 Filter Kit for dirty and impurity for Careas, Carefill, Exxar. Quick release.



Extremely light to rise the filling head, using only the hand, without levers.

Only 2 kg to rise, automatic descent.



Auto centering between filling coupling and neck ring.



No leakage of dust with the new adapter.

Dimensions
38x60x200 cm

Weight 45 kgs

220 V 50/60 Hz,
1.000 W.



Exhausted dry powder

98285

Drum for powder exhausted, with nylon bag kgs 50.



Refilling portable fire extinguishers

98200_7

Kit filtrante grumi e impurità per Careas, Carefill, Exxar. Sgancio rapido

94002

Scale up to 60 kg



Standard supply:

- Adaptor for stored pressure, and external cartridge.
- Electrical motor 220 V 50 Hz, 1.000 W.

It refill 6 kg cylinder in less than one minute

“CARFIL” Refilling powder 98200_2

98200_2 Refilling powder for vehicles



Dimensions
38x60x110 cm
Weight
35 kgs

Perfect and ideal for service extinguishers and trolleys directly to the customers sites. Small compact, fast, efficient. Special version for car service van.

EXXAR, refilling powder unit 98240

98240

EXXAR refilling machines is equipped with an external powerful high flow pump which creates the vacuum and a faster refilling of dry powder extinguisher. A large filter plus a secondary security filter external protects the motor. This unit is faster than the similar CARES in previous page. Ideal for workshops with volume of 200 / 300 extinguishers per day.

Easy and faster refilling of trolleys

Technical characteristics

Electrical motor : 220V 50/60 Hz 1 Hp
 Flow of powder : ~ 13 - 15 kg/min
Weight : 80 kgs

Electrical motor : 380V 50/60 Hz 3 Hp
 Flow of powder : ~ 20 - 30 kg/min
Weight : 110 kgs

Dimension: 500x750x1600

Standard supply includes:
 Adaptors M 30x1 and M 74 for cylinders
 Cylinders and trolley 2".
 Suction pipe L= 1200 D. 22 mm.



Secondary security filter



Emptying bag up to 12 kg

98200_6 Kit powder disposal



Fix the belt and discharge directly into a waste disposable plastic bag
 Use with Cares, Carfill Exxar.



Spare part accessories for CARES, CARFILL, and EXXAR refilling units.

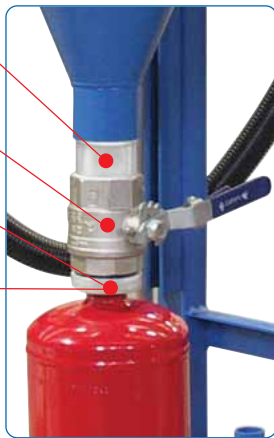
98202 Inspection nipples 2" plexiglas

98251 Butterfly valve 2"

98205 Adaptor for M 74 Internal cartridge

98206 Adaptor for portables M30x1

98208 Suction pipe 900 x 24



98200_4 2" Trolley adaptor

98200_5 2" - 4" - 5" For trolleys external cartridge



System with the Venturi principle. Fast filling trolley with extremely clean. It can suck from the bag and weighed by subtraction or put the trolley on the scale and weighed by addition.

FILTER FOR FILLING POWDER

98221 Filter for filling powder Use with Cares, Carfill Exxar.



98216
Electric vibrator



Trolleys refilling

98200_5
Adaptor
2"-4"-5"



Technical data are subject to modification for improvements without prior notice

"98250 MULTIPLA" AUTOMATIC REFILLING DRY POWDER

Description:

Automatically can transfer any kind of dry chemical powder from a big bag of 1.000 kg to any kind of portable and trolley fire extinguisher. This machine can fill powder up to 25 kg/min. Absolutely clean, no dust at all. A special filter keeps it absolutely clean avoiding the leakage of the minimum part of powder from it.

Total dimensions:

Height : 210 cm
Width : 90 cm
Depth : 90 cm

Work-bench dimensions:

Height : 75 cm
Width : 90 cm
Depth : 90 cm

Technical characteristics:

Vacuum pump: 220 Volt - 1 HP
Scale 40x60 cm
Precision 10 gr.
Flow rate: ~ 1 kg/sec

Filling Speed

- 6 kg: ~10 sec
- 12 kg: ~15/20 sec

The high quality filter doesn't need any special maintenance;
- The display of balance can be programmable from 1 to 200 kg. Fully respects the tolerances of EN3 standards. It stops automatically when weight set is reached.

The automatic refilling machine is complete with:

- Console is painted with epoxy-polyester powder Blue
- Electronic scale display, vacuum pump, check control panel.
- Vacuum cylinder complete with filter, inspection transparent powder pipe;
- Cylindrical powder recycle capacity 12 kgs;
- Electronic scale with platform in stainless steel programmable.
- Work-bench.

Professional, absolutely clean, refills a 6 kg fire extinguishers in 10".

Do not need any tool, just lean the filling head on the cylinder, press start button, and filling is a snap. Absolutely precise and clean. It is a professional unit suitable for high volume refilling up to 150 units of 6 kg per hour.



" 98252 " HOPPER and " 98253 " big bag holder

98252 500 kg Hopper

The hopper can hold 500 kg of dry powder. It can be filled manually with bags of 25 kg or with a big bags of 1,000 kg. Different models on request.



98253

Additional structure to hold a big bag of 1,000 Kg. adjustable height to the hopper.

Multipla + Hopper



"98150" Powder disposal unit Big Bag

98150 Powder disposal unit into a Big Bag

Frame made in steel. Dust filter. No need electrical source.
Clean, it simply insert the trolley fire extinguisher hose into the tube and discharge the extinguisher; within seconds the powder is disposed inside the 1,000 kg Big Bag.

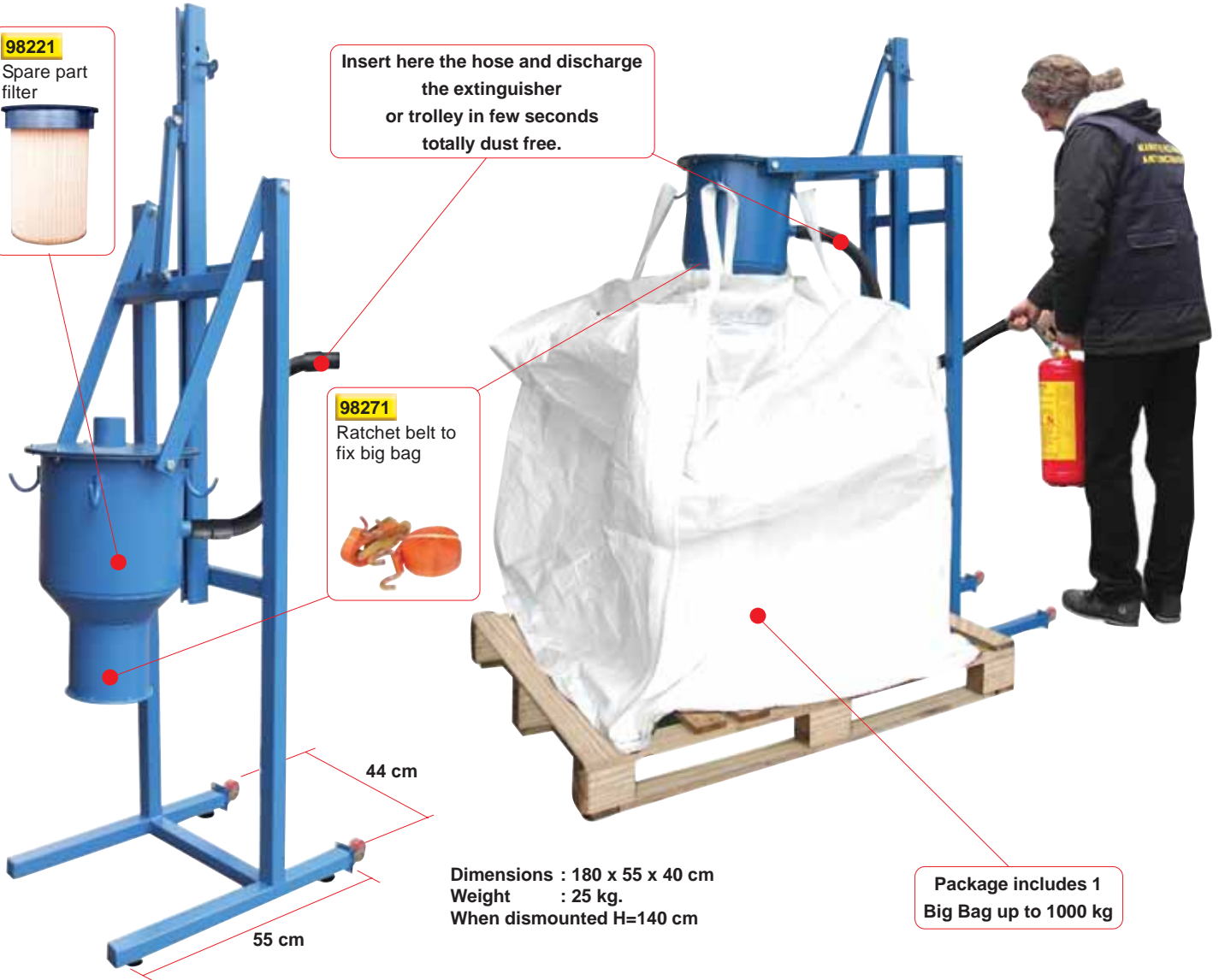
COMPACT, LIGHT WEIGHT, EASY TO TRANSPORT, DETACHABLE

98221
Spare part filter



Insert here the hose and discharge the extinguisher or trolley in few seconds totally dust free.

98271
Ratchet belt to fix big bag



Dimensions : 180 x 55 x 40 cm
Weight : 25 kg.
When dismantled H=140 cm

Package includes 1 Big Bag up to 1000 kg

"98603" Compressor 20 bar with dryer dehumidifier

98603 Air Compressor 20 bar complete with side dryer dehumidifier.

Any standard compressor produce compressed air but with high humidity contents, dangerous if in contact with dry powder as may cause easily its cacking. This unit solve the problem, and cuts high cost of nitrogen cylinders and their expensive managment.

PROFESSIONAL air copmpressor, produce dried and 99,98 % dehumidified air, equivalent to nitrogen. Standard working pressure 20 bar. 98603 includes compressor and dryer.

Compressor

Air flow : 400 l/min
Max electric power : 3 phase 4 hp
Dimensions : 110 x 51 x 85
Weight : 120 kgs



98602 Dryer-dehumidifier stand alone, 220 V 50/60 53x30x51.

98601 Compressor stand alone 20 bar.

"98100" CO2 REFILLING UNIT

The CO2 refilling unit is designed to transfer liquid CO2 from a main supply cylinder into a CO2 extinguisher. Small, compact trolley mounted, easy movement. It works also with low pressure tanks where CO2 is stored at -20°C. It is equipped with:

- High pressure compressor,
- High pressure suction and delivery hoses
- Pressure switch
- Safety valve

- Control board
- Pressure gauge
- Swivel connection with CO2 standard thread 28,8.



Motor: 220 V 50 Hz 2HP monophase.
Flow charge rate: 4 kg / min. (higher on request)
Combined with an electronic scale with display 94005/94006 it is able to charge and stop automatically with safe and precision.

2



98100
CO2 Compressor
Dimensions:
500x500x610
Weight 56 kg.

Spare parts for CO2 Carbon Dioxide refilling units

98116

Swivel adaptor
Ø 21,8, 3/8" f
for CO2 pump



Connected to the
pump **delivery**
port. 2 Mt

98115

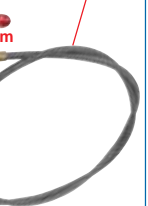
High pressure
ball valve 500 bar



3/8" f

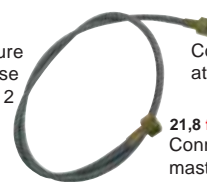
98113

High pressure
delivery hose
for CO2 mt 1,8



98114

High pressure
suction hose
for CO2 mt 2



1/2" fg

Connected to the pump
at **suction** port of

21,8 fg
Connected to
master cylinder

98128 Spare part piston pump

If dirty or rust from master cylinder pass inside the pump then the washer may be worn or striped and need to change, then it need Kit 27 cod 98128.



98108 Pressure switch

Can be set from
30 to 120 bar.
It allow automatic stop
avoiding overfilling and
higher pressure risks.



98107 Safety valve

Safety valve mounted on the
pump. It blow out the gas if
the pressure increase in
case pump is accidentally
forgotten, while refilling.



"98051" CO2 Internal Cartridge Filling Rig

Steel made, small dimensions for easy movement and transport; the easy handling and its small size permit the installation of this unit everywhere without any problem, i.e. it can be easily loaded on a small truck or van for recharge at customer's premises. The unit is equipped with a steel made filling head and many different spanner keys which can be changed inside the filling head and permit in this way the refilling most kind of internal Co2 cartridge in the market.

On request the unit can be supplied with a precise weighing scale in order to reach the exact required charge, and, in addition to this with an electric switch on the weighing scale which stops automatically the CO2 pump at the required weight.

98051 Refilling rig



DIMENSIONS

Height : 210 mm
Depth : 210 mm
Lenght : 1020 mm
Total weight: 14 kg.

20408

10 mm



Safety Disk
for internal
cartridge

41067 Master cylinder 30 kg
filled with CO2



HOW TO FILL A CARTRIDGE

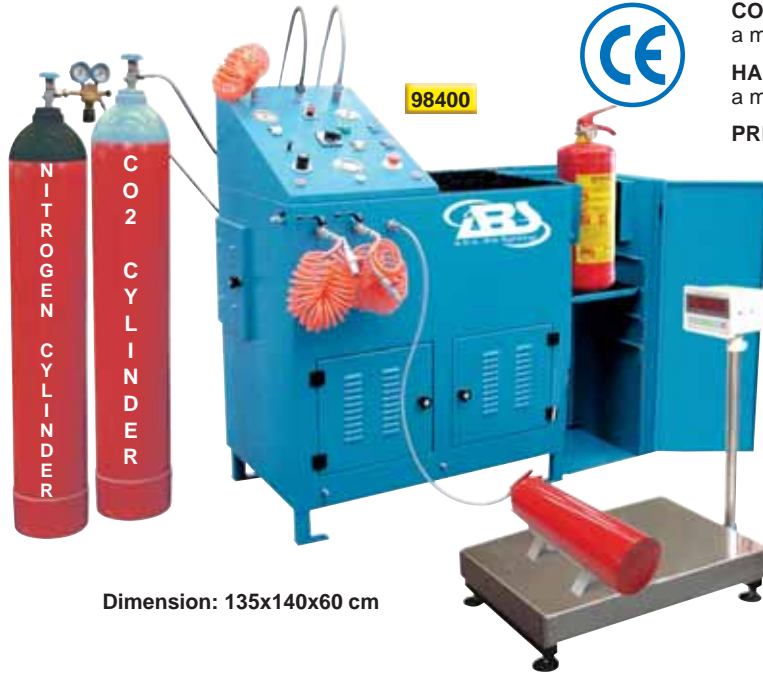
94006

OPTIONAL SCALE:
Programmable electronic
scale, automatic stop
when set weight reached.



98051
Filling unit

"98400" Refilling unit CO2 with clamp



Dimension: 135x140x60 cm

The unit it's composed by:

CO2 CHARGER UNIT: These unit permit to fill CO2 extinguishers from a master cylinder any size to an empty cylinder any size.

HALOGENATES GAS CHARGER UNIT: These unit permit to fill from a master cylinder and pressurize with nitrogen.

PRESSURIZATION UNIT: With a master cylinder nitrogen, any size of stored pressure fire extinguisher.

COMPRESSED AIR UNIT: These unit produce compressed air used to cleaning operations and operate the pneumatic clamp vice.

PNEUMATIC CLAMP VICE UNIT: These vice is used to clamp extinguishers cylinders till 300 mm diameter for mounting valves.

TECNICALS CHARACTERISTICS

Maximum air pressure :16 bar (232 psi)

Flow rate of CO2 :8 kg/min, max 100 bar

Power of pump motor :1.5 Kw

Power of compressor motor :1.5 Kw

Power supply :220 V 50 Hz - (380 V 3phases on request)

Weight :180 Kg

Optional

94002 Electronic scale manual

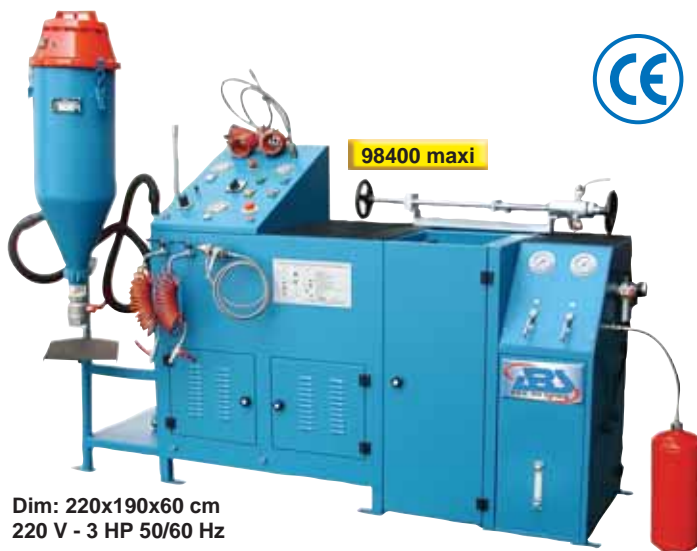
94005 Electronic scale automatic

2

"98400 Maxi" Refilling unit CO2 with clamp

98400 MAXI is a multipurpose machine recommended in any workshop for the maintenance of all kind of extinguishers. It is a unit featuring combined operation: filling CO2 extinguishers, filling halogenated extinguishers, pressurizing extinguisher with nitrogen, producing compressed air for clamping cylinders, hydropneumatic pump to test cylinders till 250 bar.

It is possible to complete the machine with some integrated optionals.



Dim: 220x190x60 cm
220 V - 3 HP 50/60 Hz

The MAXI refilling unit is equipped with:

- CO2 Refilling unit, **98100**.
- Pressurizing extinguisher with nitrogen, fill extinguishers with halogenated Foxer, HFC227, FM200.
- Air compressor up to 17 bar, for control panel and to clean valve.
- Pneumatic clamp for cylinder up to 67 litres, 300 mm diam, **98500**.
- Refilling powder machine CARES, **98200**.
- Hydropneumatic test for cylinder up to 250 bar, **98300**.
- Refilling CO2 internal cartridge, **98051**.
- Electronic scale up to 30 kg, **94004**.

"97300" Valving devalving unit

Allows mechanical valving and devalving on cylinders and extinguishers. Provide with a precise regular torque setting; absence of physical effort reducing accident probability.

97300 Valving unit

Electrical geared motor.

Vertically adjustable shaft for easy use with any size of high pressure cylinder.

Automatic stop at preset torque force.

Cyl diam 70 / 320 mm

Torque force 100 / 300 Nm

Main switchboard 24V.

Electrical motor 220 V 1,5 Kw

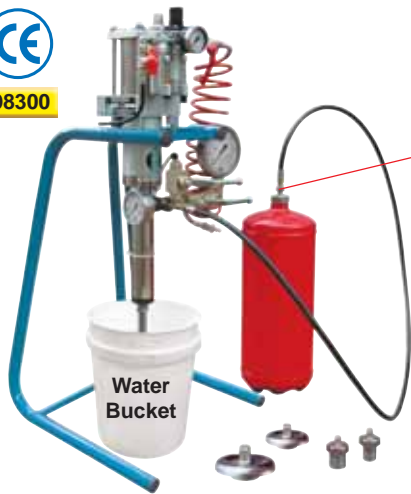
Dim: 140 x 42 x 400 cm.



"98300" Hydropneumatic test



98300



On request 2 models:
480 bar
750 bar

Accessories

98002 Manifold hydraulic testing enable simultaneous of 5 cylinder



This manifold high pressure, includes hoses to test a single or simultaneously 5 cylinder at once.

Unit and hoses are factory tested at 750 bar.

It can test hydraulically one or more cylinders at a time, max 250 bar. The cylinder is filled with water, the hydropneumatic pump compress the water inside it aspirating clean water contained in a bucket below pump head. Max pressure of the pump is 250 bar. No electricity is needed.

It use air to drive the pump from 0,1 up to max 8,5 bar and it multiplies the pressure with a ratio 1:30.

Fully in stainless steel and maintenance free. A high precise pressure reducer allow to supply air at very small steps enabling to set desired hydraulic pressure.

It can be used also to make burst a cylinder; normally dry powder cylinder blasts in a range from 60 to 90 bar.

It can be used to test also flat fire hoses, rubber high pressure hoses, hose reels.

OPTIONALS

The unit can be supplied with adaptors for extinguishers and trolleys M30 x1,5, M74x2, 2", 3/4 " 25E for CO2, 2" Storz for Hoses.

"98901" Hydraulic test and dryer machine



98901



Dim: 176 x 190 x 60 cm. Weight ~ 250 kg.

The hydraulic test and dry machine 5 place can be fill, test and dry cylinder.

Indicated for hydraulic test of extinguishers cylinders.

The unit can make 3 differents operations with 3 integrated units:

- 1) Pump for filling cylinders with water.
- 2) Hydraulic test of cylinders till 80 bar. (available 250 bar)
- 3) Blower for drying tanks.

The unit can test 5 cylinders at once.

Standard configuration:

- Chassis in painted steel sheet;
- Air/water manifold;
- Main electric panel with manual and automatics controls;
- Filling and test fast fittings;
- Water tank in stainless steel complete with filter.
- Continuous pressure set, increase step of 1 bar.

The water is recycled, no waste in drainage.

Specifications:

Filling pump:

- Maximum pressure: 4 bar
- Power supply: 220-240 Vac 50 Hz 1 Kw

Test pump:

- Maximum pressure: 80 bar
- Power supply: 220-240 Vac 50 Hz 1,5 Kw

Blower:

- Power supply: 220-240 Vac 50 Hz 1,1 Kw

"98804" Drying machine 5 units

This product has the advantages of rapid drying, no dust, no pollution, convenient operation, safety and reliability.

Equipped with temperature and timer adjuster.

Auto shut down at preset timer.

- Voltage : 220 V
- Power : Air Blower 250 W
- : Heater case: 3000 W

Approx drying time 2 / 5 min, it depends from residual water inside cylinders.

- Adjusting heating timer.
- Digital temperature adjuster.
- Power indicator lamp.
- Power switch.
- Buzzer.
- Heating indicator lamp.

98804 drying 5 units



Dim: 37x68x120 cm - Weight ~ kg 20

Drying machine 2 units

Dryer blowing machine for extinguishers tanks.

Permit to dry 2 tanks at once manually on/off.

Very light and small, indicated in small workshops or inside a service car van.

Voltage: 220 Volt 1,5 Kw



Dim: 36x55x45 cm - Weight kg 35

“98500” Pneumatic clamp for fire extinguishers and CO2 cylinder



Complete with pressure reducer



98316

Spiral with quick connectors



Dim: 60x100x100 cm

Suitable to fix extinguishers cylinders and CO2 bottles for maintenance, mounting and dismantling valves.

Diameter from 70 to 300 mm.

Clamp are adjustable to fit any kind of cylinder.

The strong structure made of steel is designed to be fixed on the wall or to stand on the floor. Clamps pliers have with protections in special rubber in order to avoid scratches to the paint of the cylinder or bottle. Double activation push-button: needs two fingers to avoid accidents.

Emergency stop and open red push-button.

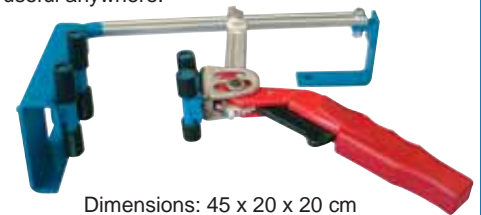
Include the pressure reducer and filter with lubricator.

Pneumatic cylinder with push force up to 800 Kg for a perfect fastening also for larger CO2 bottles.

Manual clamp release

98013 Manual clamp, useful anywhere.

Suitable to fix extinguishers cylinders and CO2 bottles for maintenance, mounting and dismantling valves.



Dimensions: 45 x 20 x 20 cm

Kit torque force spanner for CO2 and powder valve for fire extinguishers

To lock valves on extinguishers according to PED 97/23 standard which specify that they must be tightened with torque force specified by the manufacturer. Included shown accessories.

98023_1 Case complete with :

- 1 Torque force spanner from 20 to 100 Nm.
- 1 Torque force spanner from 40 to 200 Nm.
- 2 Accessories powder extinguishers from 1 to 12 kg.
- 1 Accessories for trolleys and extinguishers with internal cartridge.
- 2 Accessories from 28 to 30 mm CO2 valve.



Conformity Certificate

Guarantee and instruction

98023 Torque force spanner powder extinguishers 20/100 Nm.

98024 Torque force spanner CO2 extinguishers 40/200 Nm.



Regulation neck ring

Trolley multipurpose for fire extinguishers

Revolving device makes possible to rotate the extinguisher completely, shaking the powder.

The 4 position (0°, 90°, 180° and 270°) enable the whole extinguisher to

98029 Trolley multipurpose for fire extinguishers

Manual clamp for different size of extinguishers

Nitrogen cylinder complete with pressure reducer

Base to transport extinguishers

Dimensions: 115x50x80 cm
Weight: 30 kg



Triangular wheel configuration to easy moving on stairs

be checked and serviced.

Includes a toolbox for the necessary accessories.

The special configuration of the three-wheeled trolley allows the unit to be moved up and down stairs easily.

The lower part of the trolley allows extinguishers to be moved easily in different location.

Revolving vice makes possible full rotation



Base to transport extinguishers



COBRA Compressors breathing apparatus

COBRA is a range of quality production of high pressure compressors for breathable air and technical gases like Nitrox, Trimix, Helium, Nitrogen.
A.b.s. kept on evolving in the mechanical area continuously updating planning and designing equipment and producing ever-improving reliable products.

A.b.s. have took up the challenge of the technological evolution and export it is products all over the world also thanks to a widespread distribution network offering qualified service & repair.
A.b.s. produce portable compressors and large-sized recharge stations.

This catalogue shows the recharge station product line: with single-phase and three-phase electric motor.
A.b.s. compressors guarantee the fire fighters and varius quality breathable air and a versatile equipment.

2

98060 Technical characteristics

Charging rate	: 215 l/min - 13 m ³ /h
Filling time cylinder at 300 bar:	
3 lt cylinder	: < 3 min
6 lt cylinder	: 8 min
Working pressure	: 315 bar
Rpm pumping unit	: 1350
Driven by	: Three-phase electric motor
Power	: 4.8 Kw (440/480V - 60Hz)
Dimension	
Height "H"	: 0.84 m (33")
Width "L"	: 0.89 m (35")
Depth "P"	: 0.60 m (23")
Noise	: 71,9 dB ISO 3746
Dry weight	: 177 kg (390 lbs)
Breathing air	: DIN 3188 EN 12021 CGA E

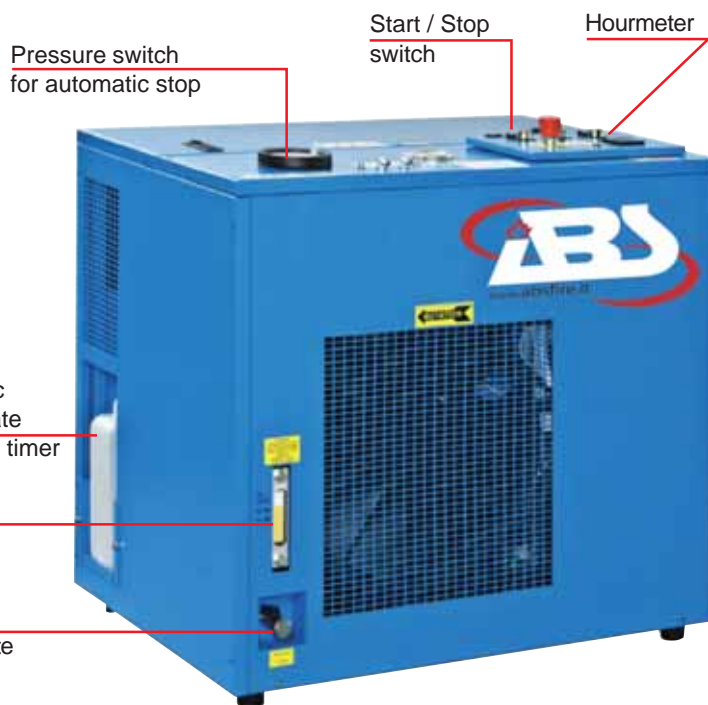


98060_1

Automatic drain, 440V 60Hz 3 phase. With autostop

98060

Automatic drain, 400V 50Hz 3 phase. With autostop.



98060 Optional accessories

- Remote filling panel
- Extra filling hose BC valve (1,2 m) max two pieces
- 300 bar version

98060 Complete with

- Start stop switch
- Pressure switch for automatic stop
- Hourmeter
- Manual drain
- Automatic condensate drain with timer
- Oil level.
- Automatic condensate drain
- Autostop
- Electronic switchboard with hourmeter.

Filling panel "98066"

98066 Filling panel complete with pressure regulator.



2 Outlet at 300 bar

2 Outlet at 200 bar

ACCESSORIES

98068 Glycerine stainless steel pressure gauge 0-400 bar for testing breathing apparatus valves. DIN 300 & DIN 200



98065 Filling device 300F/200M bar DIN With safety valve 225 bar



air H.P. 300 bar from 80 to 215 l/min

Filling station for air cylinder from 80 to 100 l/min

High pressure air compressor suitable to charge compressed air bottles for breathing apparatus and scuba systems. It supply dehumidified air and filtrates through filtration and settling systems.

Technical characteristics

Charging rate	: 100 l/min - 6 m3/h	Dimension	
Filling time cylinder at 300 bar:		Length	: 0.84 m (33")
3 lt cylinder	: < 9 min	Height	: 0.89 m (35")
6 lt cylinder	: 18 min	Width	: 0.60 m (23")
Working pressure	: 315 bar	Noise	: 83 dB ISO 3746
Rpm pumping unit	: 2800	Dry weight	: 56,7 kg COMPACT
Driven by	: Three-phase electric motor		: 37 kg BASIC
Power	: 3 Kw - 4 HP	Breathing air	: DIN 3188 EN 12021 CGA E

COMPACT FRAME



98062 100 lt/min, 400V 50Hz 3 phase

BASIC FRAME



Optional accessories

- Autostop
- 1,2 m extra filling hose
- Stainless steel frame
- Filter cartridge with CO2 catalyst

98067	80 lt/min, 230V 50Hz mono phase
98067_1	80 lt/min, 230V 60Hz mono phase
98064	100 lt/min, 400V 50Hz 3 phase
98064_1	100 lt/min, 440V 60Hz 3 phase



2

98063 Filling station for air cylinder 215 l/min

Complete with Pressure gauge, overpressure valve, maxi filter and manual condensate drain

Technical characteristics

Charging rate	: 215 l/min - 13 m3/h
Filling time cylinder at 300 bar:	
3 lt cylinder	: < 3 min
15 lt cylinder	: 14 min
Working pressure	: 315 bar
Rpm pumping unit	: 1350
Driven by	: Three-phase electric motor
Power	: 4.8 Kw (440/480V - 60Hz)
Dimension	
Height "H"	: 0.84 m (33")
Width "L"	: 0.89 m (35")
Depth "P"	: 0.60 m (23")
Noise	: 71,9 dB ISO 3746
Dry weight	: 100 kg
Breathing air	: DIN 3188 EN 12021 CGA E



98063 Manual 400V 50Hz 3 phase

98063_1 Manual 440V 60Hz 3 phase

Optional accessories

- Automatic condensate drain
- Autostop
- Complete automatic switchboard



Technical data are subject to modification for improvements without prior notice

Powder Extinguishant



RÜHL
FEUERLÖSCHMITTEL GmbH
Germany

All powders are manufactured according to European standard EN 615 and ISO 7202 exceeding all criterias for humidity, particle size, flow and level hygroscopic.

Most used dry powder are based on monoammonium phosphate and ammonium sulphates known as multipurpose as able to extinguish fires of class A / B / and C.

Other types are based on sodium bicarbonate, potassium bicarbonate, urea complex and inorganic salts.

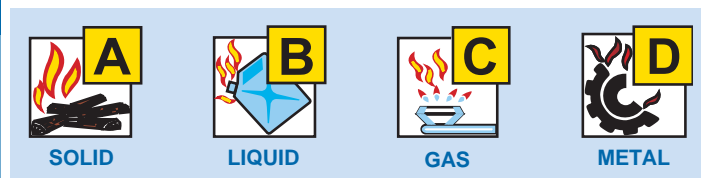
Silicon additives are added to avoid chemical reaction with moisture and checking.

The action of extinguishing powder is produced by decomposition of the at high temperatures reached in the fire, giving rise to chemical effects on the flame and the production of carbon dioxide and water vapor.

The products of combustion of the powder thus separated from fuel combustion, cools the fuel and inhibit the combustion process.

The dry powder used in our fire extinguishers is produced by the largest European companies and experienced leader.

3



Dry powder are tested and approved as EN 615/1995.

Big brands like **Caldic Furex, Rühl Chemie, Croda, Orchidee** are European manufactures over a century of experience.

Perfect mixing of chemical components, experience, severe quality control ensure the necessary physical properties of the product, such as perfect water proofness, smoothness, particle size, stability. Durability is at least 5 years if properly stored below 60°C and dry conditions.



“ABC” Furex / Rühl / Orchidee

Manufactured in Germany EN 615

Cod.	MAP %	25 kg Bags
		Special price for pallets up to 1.000 kg
31129	20%	TERTIA-New , lower environmental impact, super-efficient
31130	30%	MAP, is the abbreviation of Mono Ammonium Phosphate. The higher classes of fire during tests are obtained only by professionals with daily training experience.
31140	40%	
31150	50%	
31170	70%	
31190	90%	

Canister 25 kg “BC” Manufactured in Germany EN 615

Cod.	%	Components
31102	90%	Purple K Potassium Bicarbonate
31110	30%	Potassium Sulphate
31209_1	90%	Potassium Sulphate “ Rühl Karate ”
31111	30%	Sodium Bicarbonate 30%
31210_1	94%	Sodium Bicarbonate 94%

Canister 20 kg “D” Manufactured in Germany EN 615 Furex / Rühl

Cod.	
31100	D for metal fires bucket 20 kg

Canister 25 kg “BC” MONNEX EN 615 Croda England

Cod.	
31101	MONNEX Potassium sulphate/bicarbonate bucket 25 kg

As a good rule, checking an extinguisher, even after many years if the powder appears fine, dry, flowable, it proves that not physical or chemical changes happened and may be considered as good as in the origin.

Dry powder is considered the cheapest and most efficient extinguishing agent to be used with portable and trolleys fire extinguishers.

According to law in force in the country should be disposed by authorized companies carefully to avoid pollution caused by reaction of water with chemical salts.

**DRY POWDER HAS PASSED THE DIELECTRIC TEST UP TO 35,000 V.
FOR HANDHELD AND TROLLEY IS RECOMENDED THE USE UP TO 1,000 Volt AT 1 mt DISTANCE**

The powder ABC 20, ABC 30 and ABC 40 are normally supplied BLUE color.



Fire test on class 233B (155 lts of heptane) with a 6 kg powder fire extinguisher

8 minutes of preburning time of a class fire type 34 A (Length of the test fire 3,4 m)

* MAP= Acronym of Mono Ammonium Phosphate.

Foam Extinguishant



MED MARINE



CANISTER 25 KG

Approvals:
Fire Brigade
UL Listing
MED MARINE



Biodegradable > 90% OECD, Free from PFOA (perfluorooctanoic acid)

A.F.F.F 25 kg

Cod.	Description
33110	AFFF 3%
33124	AFFF 6%
33124_1	AFFF 6% UL Listed EN1568 ICAO

Proteinic 25 kg

Cod.	Description
33112	Proteinic 3%
33127	Proteinic 6%

Fluoroproteinic 25 kg

Cod.	Description
33126_1	Fluoroproteinic 3%
33126	Fluoroproteinic 6%
33131	FFFP fluoroproteinic 3%
33125	FFFP fluoroproteinic 6%
33125_1	Universal 3% alcool resistant
33130	Universal 6% alcool resistant

Synthetic 25 kg

Cod.	Description
33128	Synthetic 1-6%
33128_2	Synthetic 1% Forest fires

DRUMS 200 KG

Approvals:
Fire Brigade
UL Listing
MED MARINE



Biodegradable > 90% OECD, Free from PFOA (perfluorooctanoic acid)

A.F.F.F 200 kg

Cod.	Description
33313	AFFF 3% film forming
33326	AFFF 6% film forming
33326_1	AFFF 6% UL Listed EN1568 & ICAO

Proteinic 200 kg

Cod.	Description
33329	Proteinic 6%
33329_1	Proteinic 3%

Fluoroproteinic 200 kg

Cod.	Description
33328_2	Fluoroproteinic 3%
33328	Fluoroproteinic 6%
33328_1	FFFP fluoroproteinic 3% film forming
33327	FFFP fluoroproteinic 6% film forming
33327_1	Universal 3% alcool resistant
33392	Universal 6% alcool resistant

Synthetic 200 kg

Cod.	Description
33330	Synthetic 6%
33330_1	Synthetic AR 3-6% alcool resistant

Guide to the foam extinguishant



Foam compound is used to fight fires class A and B solids and flammable liquids. It is used with special equipments, said mixers from 1 to 6% with remaining 99 / 94% of water. It is supplied in plastic drums of 200 kg or portable 25 kg of plastic canister. It is indispensable to fight big fires, in industrial and petroleum fields and refineries. **A choice of various type of foam can be made followings basic informations:**



A.F.F.F.

Abbreviation of Acqueous Film Forming Foam, creates a thin floating film on top of fuel surface. It is self-sealing, therefore extremely efficient. When fire is knocked down, reignition is practically almost impossible, being the fuel under the protective AFFF floating film. It can be used also with spray nozzle. Expansion Ratio 1:10

Fluoroproteinic

For low expansion. Available at 3% and 6% concentration. Great heat stability. Suitable for long-preburn-time fires. For petroleum products process and storage areas - Aircraft hangars - Ideal for subsurface injection systems. It creates a resistant blanket resisting to high °C.

F.F.F.P. Fluoroproteinic

Combines the advantages of filming with those of fluoroproteinic.

SEALFIRE

It is a special A.F.F.F. superconcentrate 1% / 3% specially developed for extinguishers. It has a great stability, it creates a floating high resistant film over burning liquids.

Proteinic

Foaming liquid mixable in water at 3% or 6%. Indicated for quickly intervention on Hydrocarbons fires, and others non polar substances. Used to generate low expansion foams.

Synthetic

Synthetic foaming liquid mixable in water at 1% to 6%. Indicated for quickly intervention on Hydrocarbons fires, others non polar class A. Used to generate medium and high expansion foams.

Universal

Universal alcohol resistant, foaming liquid mixable in water at 1% to 6%. Indicated for massive intervention on Hydrocarbons fires and others polar substances. Used to generate low and medium expansion foams.

Replacement spare parts **Foam**

The spare charges SEALFIRE® are ready to use for charging fire extinguishers approved from 6, 9 Lt and trolleys. Genuine spare parts with certificate of conformity and guarantee.

Sealfire® for EN 3.7 - Med Marine & EN 1866-1

Cod.	Description
21135	For portable lt 6 bottle 180 gr.
21134	For portable lt 9 bottle 270 gr.
21154	For trolleys lt 25 bottle 13 LT (-30°C premix)
21154_1	For trolleys lt 25 bottle 0,5 LT
21170	For trolleys lt 50 bottle 1 LT
21178	For trolleys lt 50 bottle 26 LT (-30° premix)
21171	For trolleys lt 100 bottle 2 LT
21172	For trolleys lt 150 bottle 3 LT
21139	Canister 5 Kg super-compound
33395	Canister 20 Kg super-compound

Sealfire A® for Class A EN3.7 and MED

21170_1	For portable lt 6 bottle 0,900 gr.
21170_2	For portable lt 9 bottle 1,35 gr.
33396	Canister 20 kg additive class A

Sealfire X® EN 1866-1 and MED

21180	For trolleys lt 25 bottle 0,25 lt (0°)
21180_1	For trolleys lt 50 bottle 0,50 lt (0°)
21180_2	For trolleys lt 100 bottle 1 lt (0°)
21180_3	For trolleys lt 150 bottle 1,5 lt (0°)

Sealfire X® -30 EN 1866-1 and MED

21181	For trolleys lt 25 bottle 12,75 lt (-30°)
21181_1	For trolleys lt 50 bottle 25,5 lt (-30°)

Sealfire ABF® for EN3.7 and MED

21177	For portable lt 6 13363 - 14363 (0°)
21177_1	For portable lt 9 13396 - 14395 (0°)

Sealfire ABF® -30 for EN3.7 and MED

21174	For portable lt 6 14366 (-30°)
21174_1	For portable lt 2 13320_30 - 14320_30 (-30°)

Sealfire ABF® It is composed mixing
Sealfire X® with Sealfire A®.

Premixed EN3.7 and MED

33398	"AB" - 30°C premixed class A and B (20Kg)
33399	LIFEWATER for class A, -30°C (20 kg)
33393	Fat fires Classe F (20 kg)
33108	Antifreeze for foam extinguishers (20Kg)



Canister 5 kg



Bottle



The Sealfire® is clean and environmentally friendly

Sealfire X®

The fire extinguisher is filled with **SEALFIRE ABF®** a mixture, of water and of **SEALFIRE X® + SEALFIRE A®** concentrate.

Used against fires of wood, textiles, paper and very effective for flammable liquid fires. It is used on fire extinguishers approved according to European standard EN3-7 and passed the test at **35,000 volts** in all European countries: like powder and CO2 it can be used on switchboards **up to 1,000 volts** at **1 meter** distance.

SEALFIRE X® forms a thin film that floats on flammable liquid, quickly turns and prevents re-ignition of the fuel because it insulates the contact with oxygen.

The additive is also called **A.F.F.F. Acqueous Film Forming Foam**.

It offers many advantages respect powder fire extinguishers:

- **Discharge time longer!**
- **Visibility for all discharge time!**
- **Do not dirty! Water at 99%**
- **Environmentally friendly, biodegradable at 99.8%!**

And 'the product best suited for offices, hotels, museums, archives, factories, shops, laboratories, home garages. **Ecological alternative to halon 1211.**

Sealfire X®

Sealfire A®

Sealfire ABF®

Lifewater®

5 seconds

Test with Epthane according to EN3.7
Welded sheet steel circular 233 B diam 3 mt. After 60" ignited, discharge.
A terrific heat ~1000°C!



10 seconds

After only 10"seconds. Flames are almost down due to sealing effect.



15 seconds

After 15 second. Sealing effect is complete. Reignition is no more possible. **EXTRAORDINARY!**



Replacement spare parts **Powder**



Powder for EN3.7 and MED

Cod.	Type of Powder
31104	ABC 40% MAP 6 Kg.
31105	ABC 50% MAP 6 Kg.
31109	ABC 90% MAP 6 Kg.



6 kg



9 kg

Powder for EN3.7 and MED

Cod.	Type of Powder
31119	ABC 40% MAP 9 Kg.
31115	ABC 50% MAP 9 Kg.
2 x 31104	ABC 40% MAP 12 Kg.

GERMANY QUALITY EN 615

In sealed bags, ready to use, no waste, cleaner, genuine spare parts, absolute guarantee. The powder **ABC 20**, **ABC 30** and **ABC 40** are normally supplied BLUE color.

Replacement spare charges for powder and foam extinguishers Marine MED

The SOLAS Convention Chapter II-2 part C **lays the obligation** of the provision of replacement spare change for the 100% for the first 10 extinguishers installed, while the remaining fire extinguishers are needed the 50% of the replacement spare. The maximum quantity of refills shown are 60.

For powder portable extinguisher MED

Stored pressure Marine spare parts includes a box with:



O-ring, sac of dry powder 6 / 9 / 12 kg and anti tamper seal.

Code	Extinguisher type MED
31300_3	14160 St. pressure kg 6
31300	14161 St. pressure kg 6
31300_4	14162 St. pressure kg 6
31300_1	14169 St. pressure kg 6
31301	14191 St. pressure kg 9
31304	14172 St. pressure kg 12

Internal cartridge Marine spare parts includes a box with:



O-ring, sac of dry powder 6 / 9 / 12 kg, CO2 internal cartridge, strip, anti tamper seal, clips and safety pin.

Code	Extinguisher type MED
31300_2	14167 Int. cartridge kg 6
31300_5	14168 Int. cartridge kg 9
31300_7	14193 Int. cartridge kg 9
31301_1	14194 Int. cartridge kg 9
31304_1	14173 Int. cartridge kg 12

For powder trolleys extinguisher MED

Stored pressure

Marine spare parts includes a box with: Orings, sac of dry powder 25 kg, washers, and safety seal.



Code	Extinguisher type MED
31302_3	14133 St. pressure kg 25
31302_1	14164 St. pressure kg 50
31302_6	14181 St. pressure kg 100

External cartridge

Marine spare parts includes a box with: Orings, sac of dry powder 25 kg, washers, safety seal, Co2 or N2 external cartridge.

Code	Extinguisher type MED
31302_4	14134_10 N2 kg 25
31302_5	14134 CO2 kg 25
31302	14163_10 N2 kg 50
31302_10	14151 N2 kg 50
31302_11	14155 N2 kg 50
31302_2	14163 CO2 kg 50
31302_9	14155 N2 kg 50 Monnex
31302_7	14166_10 N2 kg 50 " "
31302_8	14166 CO2 kg 100

For Foam portable extinguisher MED

Stored pressure Marine spare parts includes a box with:



Sealfire AFFF foam supercompound, orings, seal.

Code	Extinguisher type MED
31303_3	14361 - 14363 Lt 6
31303_14	14393 0°C Lt 9
31303_15	14393 -30°C Lt 9
31303_20	14392_1 Lt 9
31303_5	14391 Lt 9

Internal cartridge Marine spare parts includes a box with:



Sealfire AFFF foam supercompound, orings, seal, CO2 internal cartridge, safety pin.

Code	Extinguisher type MED
31303_16	14365 Lt 6
31303_4	14362 Lt 6
31303_7	14366 0°C Lt 6
31303_8	14366 -30°C Lt 6
31303_6	14392 Lt 9

For powder trolleys extinguisher MED

Stored pressure Marine spare parts includes a box with:



Sealfire AFFF foam supercompound, orings, seal, filter, PVC coupling, washers.

Code	Extinguisher type MED
31303_11	14225 0°C Lt 25
31303_12	14225 -30°C Lt 25
31303	14254 Lt 50
31303_17	14226 -30°C Lt 50
31303_10	14281 Lt 100

External cartridge Marine spare parts includes a box with:

Sealfire AFFF foam supercompound, Co2 or N2 external cartridge, Orings, seal, pin, filter, PVC coupling, washers.



Code	Extinguisher type MED
31303_13	14260 Lt 50
31303_9	14260_10 Lt 50
31303_19	14289_10 Lt 100
31303_1	14289 Lt 100
31303_18	14284_10 Lt 150
31303_2	14284 Lt 150

ACIDS ABSORBER

Neutralizing absorbent electrolyte (sulfuric acid) based calcium oxides and carbonates

Tested and certified by authorized Italian Organization by Ministry for Environment.

This certificate makes the product suitable to be used where lead-acid batteries are present with the risk of possible electrolyte spills both liquid and jelly.

SULFURIC ACID NEUTRALIZER

ACIDS ABSORBER Has been tested and certified by authorized Italian Organization by Ministry for Environment. This certificate makes the product suitable to be used where lead-acid batteries are present with the risk of possible electrolyte spills both liquid and jelly.

Sulfuric acid is a highly corrosive and toxic product which can cause severe skin burns; accidental spills need an immediate intervention by means of neutralizers capable of rendering the acid inert.

NEUTRALIZATION

High absorbency and gelling power to neutralize acid, toxic and corrosive features of sulfuric acid.

VISIBLE COLOR CHANGE

Different from commonly used products, **ACIDS ABSORBER** features the "Visible Color change" by which the reaction status can be controlled in order to verify the needed product quantity.

The sorbent powder will quickly change color to signify complete neutralization of spilled acid. Pls. note that the colors in present brochure are simply indicative.

USE

Gradually pour the powder and then wait for color change (check colors on the packaging)

DOSAGE

530 gr **ACIDS ABSORBER** are needed to neutralize 1 lt sulfuric acid.

When an acid spill occurs, you normally can't verify the exact spilled quantity; thanks to "visible color change" you can understand how much neutralizer you need: the operator just needs to compare product color changing to the identification table on the packaging to be sure the right product quantity has been used to get complete acid neutralization.

DISPOSAL

Once the neutralization has been carried out, the

ACIDS ABSORBER product can be easily disposed of as non toxic special waste.

SHELF LIFE

Grants an optimum absorbency and neutralizing power for 5 years from packaging date printed on each packaging.

530 gr **ACIDS ABSORBER** are needed to neutralize 1 lt sulfuric acid.



33500

Acids Absorber

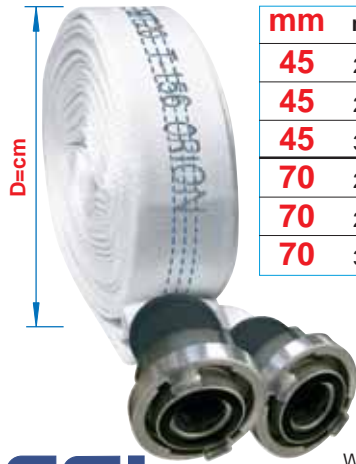
SOME APPLICATIONS

- Battery refilling station.
- Direct Current generation plants.
- Battery manufacturing plants.
- Battery storage warehouses.
- Industries and companies where lift trucks are needed.
- Car and mechanics industry
- Battery disposal and storage areas.

Fire hoses certified EN 14540 - on request mm 38, 52, 75.

ORION

Indicated for indoor applications, condominium, factories, warehouses.
Polyester lining, internally coated with PVC.



mm	mt	code #	Storz	D= cm
45	20	51224	C52	30
45	25	51324	C52	32
45	30	51424	C52	34
70	20	51227	B75	33
70	25	51327	B75	35
70	30	58427	B75	37

Certified EN 14540
CSI certificate DC03/007/F10

CSI

	mm 45	mm 70
Weight gr/mt of hose ~	140	250
Working pressure bar	12	12
Bursting pressure bar~	> 45	> 42

CRYSTAL GOLD

Polyester lining, high quality, internally coated with EPDM. Excellent aging and mould resistance. Good for outdoor cabinets.



mm	mt	code #	Storz	D= cm
45	20	55230	C52	32
45	25	on request	C52	34
45	30	on request	C52	36
70	20	55231	B75	33
70	25	on request	B75	37
70	30	on request	B75	39

Certified EN 14540
CSI certificate DC03-002-F08
Nato code NUC: 4720-15-162-3746

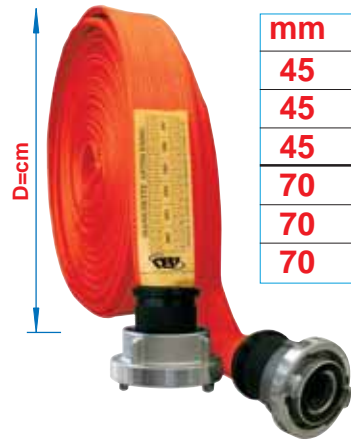
CSI

	mm 45	mm 70
Weight gr/mt of hose ~	220	400
Working pressure bar	12	12
Bursting pressure bar~	> 45	> 42

STAR RED

Double coating, polyester lining, inside and outside with poliuretano, good acid resistant, easy wash, do not need dry after usage. Reinforced anti abrasion. Mould aging resistant.

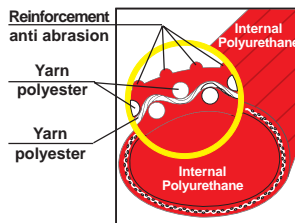
EXCELLENT PRICE / QUALITY



mm	mt	code #	Storz	D= cm
45	20	58225	C52	32
45	25	on request	C52	34
45	30	on request	C52	36
70	20	51427	B75	35
70	25	on request	B75	37
70	30	on request	B75	39

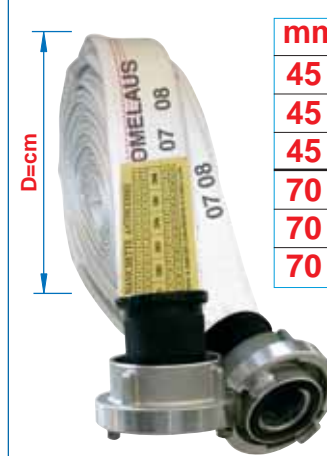
Conform to EN 14540

	mm 45	mm 70
Weight gr/mt of hose ~	350	600
Working pressure bar	12	12
Bursting pressure bar~	> 45	> 42



CHAMPION GOMEL

Polyester high quality, lined with Gomel PVC, Thoni quality, known and appreciated by over 30 years. anti aging, anti mould.



mm	mt	code #	Storz	D= cm
45	20	50224	C52	32
45	25	50324	C52	34
45	30	50424	C52	36
70	20	50227	B75	35
70	25	50327	B75	37
70	30	50427	B75	39

Certified EN 14540

	mm 45	mm 70
Weight gr/mt of hose ~	200	400
Working pressure bar	12	12
Bursting pressure bar~	> 45	> 42

CHAMPION SUPER

Polyester high resistance, internally coated with, Thoni quality, superb in the market appreciated by 30 years. Anti aging, anti mould.



mm	mt	code #	Storz	D= cm
45	20	53224	C52	32
45	25	53324	C52	34
45	30	53424	C52	36
70	20	53227	B75	35
70	25	53327	B75	37
70	30	53427	B75	39

Certified EN 14540

	mm 45	mm 70
Weight gr/mt of hose ~	200	400
Working pressure bar	12	12
Bursting pressure bar~	> 45	> 42

MARINE MED SOLAS

Polyester high resistance, internally coated with EPDM. Approved MED SOLAS. Anti aging, anti mould.



mm	mt	code #	Storz	D= cm
45	20	57224	C52	32
45	25	57324	C52	34
45	30	57424	C52	36
70	20	57227	B75	35
70	25	57327	B75	37
70	30	57427	B75	39

Certified EN 14540 and MED
Certificate CSI MED 0497/205/10

available sizes diam 38/52/75

see page 87

	mm 45	mm 70
Weight gr/mt of hose ~	220	410
Working pressure bar	12	12
Bursting pressure bar~	> 45	> 42

5

HERCULES

Extruded fire hose embedding the high tenacity Polyester weaving into a Nitrile PVC compound, provides the best rubber-to-textile adhesion modern technology can achieve. Is unaffected by low/high temperatures and seawater. No drying required, mildew resistant, rot and vermin proof, flexible and very easy to maintain. Fully conform to EN 14540. Mould aging resistant.

mm	mt	code #	Storz	D= cm
45	20	on request	56225	38
45	25	on request	on request	40
45	30	on request	on request	42
70	20	on request	56228	41
70	25	on request	on request	43
70	30	on request	on request	45

PROFESSIONAL USE FOR TRAINING, FIRE BRIGATE, SUPER ABRASION RESISTANT

mm 45 mm 70

Weight gr/mt of hose ~	410	650
Working pressure bar	12	12
Bursting pressure bar	> 50	> 50

ORION RED

Used by fire brigades, industries, and for irrigation purposes. Requires a minimum of maintenance. Very flexible, mould UV-light/ozone resistant and virtually unaffected by climatic conditions, hot or cold. Made from high tenacity Red Polyester filament yarn, woven on circular looms and EPDM inner lined.

mm	mt	code #	Storz	D= cm
45	20	52224	C52	38
45	25	52324	C52	40
45	30	52424	C52	42
70	20	52227	B75	41
70	25	52327	B75	43
70	30	52427	B75	45

Certified EN 14540

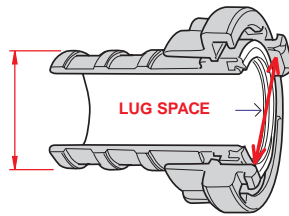
mm 45 mm 70

Weight gr/mt of hose ~	320	640
Working pressure bar	12	12
Bursting pressure bar	> 45	> 42

COUPLINGS Storz, BSS

Hose diameter	
1 1/2"	38 mm
1 3/4"	45 mm
2"	50 mm
2 1/2"	63 mm
2 3/4"	70 mm
3"	75 mm

Other coupling page 81



STORZ

Cod.	Ø	Lug	storz
65302	45	59	45
65344	45	66	52-C
65345	70	89	75-B
65352	52	66	52-C
65363	63	81	65
65370	70	81	65
65371	75	89	75-B

In aluminium. On request brass, or bronze



BSS 336

ORION + BSS

Indicated mainly for indoor applications, condominium, factories, warehouses. Polyester lining, internally coated with PVC.

50428 mt 20, 63 mm, 2" 1/2



All hoses in the pages before may have connections instantaneous BSS 336

BSS 336 Instantaneous

mm 45 mm 70

Weight gr/mt of hose ~	140	250
Working pressure bar	12	12
Bursting pressure bar	> 45	> 42

Hose for reel mm 25 - EN 14540:2006 - EN 694:2005

HOSE FLAT FOR REEL

EN 14540



53222 mt 20, 25, 30 diameter 25 mm

1" 25 mm polyester and EPDM lined flat hose. WP 12 bar, Burst Pressure >45 bar

25 mm

SEMRIGID HOSE EN 694

for reel EN 694:2005

54511	30 mt Diameter 19 mm
54221	20 mt DN 25
54321	25 mt DN 25
54421	30 mt DN 25

Polyester, EPDM lined, nylon spiral, light weight, Working pressure 12 bar, burst >45 bar, couplings 1" on request. Indoor light hose reel applications



RUBBER HOSE EN 694

for reel EN 694:2005

54413 20 mt DN 25, red

Working pressure 12 bar, burst >45 bar, high resistance to the abrasion. Outdoor and indoor professional hose reel application.

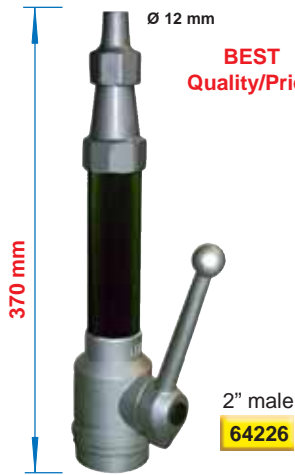


WATER NOZZLE, BRANCHPIPE, EN 671-2



WATER NOZZLE
Shut off - full jet - spray jet
Strong aluminium in light alloy.

K = 79
Ø = 12
Q = 135
P = 0,3



BEST
Quality/Price

2" male
64226

62046 Nozzle 2"
High flow, light alloy

K = 110
Ø = 15
Q = 190
P = 0,3



Storz C52

62048 Nozzle 2 1/2"
High flow, light alloy



Storz B75

Vario High Flow

Robust but light weight, variable jet, angle max 125°, easy rotating gear shut off, full jet or spray.
Rubber coating, light alloy.
Couplings Storz, other types on request.
Jet length about 25 mt.



62047 With handle

WATER CURTAIN, PROTECTS FIREMAN
Shut off - full jet - spray jet
Strong aluminium in light alloy.

K = 79
Ø = 12
Q = 135 + shield
P = 0,3



Additional ring, produce a protective water shield.

Storz C52
64223

BSS INSTANTANEOUS
Shut off - full jet - spray jet
Strong aluminium in light alloy.

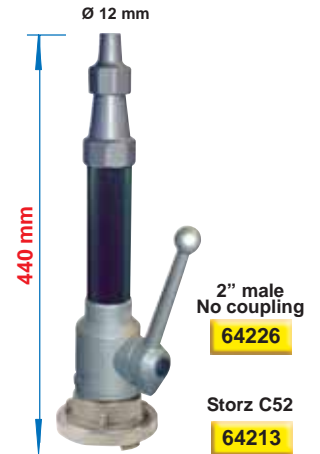
K = 79
Ø = 12
Q = 135
P = 0,3



2"1/2 BSS
64022

STORZ 52-C
Shut off - full jet - spray jet
Strong aluminium in light alloy.

K = 79
Ø = 12
Q = 135
P = 0,3



2" male
No coupling
64226

Storz C52
64213

K=Coefficient - Ø=Nozzle diameter - Q=Flow Lt/min - P=Pressure Mpa

6

WATER NOZZLE

AMERICA

Brass made, variable jet, angle max, easy rotating gear shut off, full jet or spray.
Couplings all types on request.
For professionals.
Jet length about 25 mt.

K = 110
Ø = 15
Q = 190
P = 0,3



1 1/2"
64252

VARIO SHORT

Shut off- full jet - spray jet.
Made in plastic.
Basic use.
Couplings all types available



K = 72
Ø = 12
Q = 120
P = 0,3

1 1/2"
64021

VARIO LONG

Shut off- full jet - spray jet.
Made in plastic.
Basic use.
Couplings all types available.



K = 90
Ø = 13
Q = 156
P = 0,3

UNI 45
64007

WATER NOZZLE

Shut off -full jet - spray jet



Ø 12 mm

Efficacious and cheap
Hard palstic. Light alloy
Storz

Red nylon
tube


Storz C52

64212

Technical data are subject to modification for improvements without prior notice



WATER NOZZLE BRANCHPIPE 70mm

Water curtain shut off- full jet - spray jet
CSI EN 15182 Certified 

K = 145
Ø = 16
Q = 250
P = 0,3

Strong, aluminium in light alloy.

460 mm

64222 Storz B75
64227 2 1/2" male
 No coupling

Additional ring, produce a protective water shield.

435 mm

Strong, aluminium in light alloy.

2 1/2" male
64224


VARIO LONG

Shut off- full jet - spray jet made in plastic.
 Basic use. Couplings all types available

K = 200
Ø = 17
Q = 360
P = 0,3

290 mm

2 1/2" male
64012

Water nozzle branchpipe Marina MED EN 15182 

64125 2" - Ø 12 mm
64126 2 1/2" - Ø 16 mm
64126_2 2 1/2" - Ø 19 mm

64125_1 2" - Ø 12 mm
64126_1 2 1/2" - Ø 16 mm
64126_3 2 1/2" - Ø 19 mm

WATER CURTAIN, PROTECTS FIREMAN
 Additional ring, produce a protective water shield.

Thread BSP

MED see pag 87

For coupling BSS, Storz and other see **pag. 81**

TURBO EASY




Turbo models, produce full or spray jet, variable angle and flow. It can produce very fine spray jet enabling use under electricity. Water curtain protects the fireman. Ergonomic handle and shut off valve. All types of couplings available.

64006 Nozzle turbo JET 2" F

64005 Nozzle turbo JET 2 1/2" F

Fully conform to EN 671-2

Branchpipe for reel EN 671-1

<p>64013 Brass</p>  <p>DN 25</p> <p>K=23 Ø=7 Q=45 STRONG</p> <p>According to EN 671-1</p>	<p>64020 ABS</p>  <p>DN 25</p> <p>K=23 Ø=7 Q=45 STANDARD</p> <p>Cheaper</p>	<p>64009 ABS</p>  <p>1" Fem</p> <p></p> <p>K=33 Ø=9 Q=80 GOOD</p> <p>Certificate according to EN 671-1</p>	<p>64011 Brass/ABS</p>  <p>DN 25</p> <p>64011_1 DN 20 3/4"</p> <p>K=30 Ø=7 Q=60 GOOD</p> <p>According to EN 671-1</p>	<p>64016 Aluminium HIGH FLOW</p>  <p>DN 25</p> <p>64016_1 DN 19</p> <p>K=80 Ø=12 Q=160 SUPERB</p> <p>According to EN 671-1</p>	<p>64025 Alum/ABS</p>  <p>1" F</p> <p>K=30 Ø=7 Q=60</p> <p>According to EN 671-1</p>	<p>66800</p>  <p>Coupling 1" M x UNI 25 mm M</p> <p>66801</p>  <p>Coupling 1" F x UNI 25 mm F</p> <p>K= Q 10P</p> <p>Q= Litri/min. at 4 bar P= Pressure Mpa K= Coefficient</p>
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Technical data are subject to modification for improvements without prior notice

Hose systems with lay flat hoses CE EN 671-2

Technical characteristics for hose systems:

Certified CE EN 671-2, Directive regulation 305/2011/EU

Cabinets in 4 versions:

- Epoxy paint Red Ral 3000.
- Zinc plate + Epoxy paint Red Ral 3000.
- Stainless steel AISI 304, no paint.
- Stainless steel AISI 304 + Epoxy paint Red Ral 3000

Standard supply includes:

- Cabinet, glass, landing valve brass PN16.
- Hose 1" 1/2 certified EN 14540 couplings Storz C52, binding, protective sleeves.
- Light alloy nozzles 3 position, shut off, full, spray jet.
- Hose protective holder.
- Seal (on request with key).

Cabinets in 4 versions:



Plastic glass EASYBREAK breakable, and NOFLAMES unbreakable

EASYBREAK Is yellow transparent plastic anti UV. It is preformatted, and easy breakable, with a simple knock.

NOFLAMES Is unbreakable it is fine and elegant smoked transparent, To open the door, it need breaking the seal at the pull the frame.



EASYBREAK
Breakable

Cabinet	Spare parts plastic glass		
	EASYBREAK	Dim.	NOFLAMES
61242	60008	325 x 525	60008_1
61243	60009	306 x 530	60009_1
61144	60010	325 x 540	60010_1
61145	60011	284 x 500	60011_1
61172	60012	422 x 570	60012_1
61271	60013	390 x 530	60013_1
61272	60014	385 x 628	60014_1
61175	60015	400 x 615	60015_1
61176	60016	365 x 580	60016_1

On request can be supplied with different dimensions (2 x 1 mt) cod. 60031



NOFLAMES
Unbreakable

6

INDUSTRY MODEL "626"

★ See also at pag. 36 - 80

Pleasant design, great care to avoid accidental skin damages . Tamper seal. Plastic windows.



Hose holder

Optional 62046

Painted

Epoxy painted, shock and scratches resistant
Great care to safety.

Industry	
Mod. 626	mt
62126_0120	15
62126_0220	20
62126_0520	25
62126_0320	30

Zinc plate + Painted

epoxy paint red.
10 years guarantee

Industry	
Mod. 626	mt
62126_2120	15
62126_2220	20
62126_2520	25
62126_2320	30

Stainless Steel

Not painted. Maintenance free.
Stainless steel cabinets may have additional red colour Ral 3000 on request

Industria	
Mod. 626	mt
62126_1120	15
62126_1220	20
62126_1520	25
62126_1320	30

Stainless Steel + Painted

AISI 304 + additional paint epoxy red. Maintenance free.
AVAILABLE aisi 316 L for very high corrosion sites.

Industria	
Mod. 626	mt
62126_3120	15
62126_3220	20
62126_3520	25
62126_3320	30

Dimensions 38x63x18 cm

On request with couplings BSS English, NST American, Afnor French , UNI Italy, others...

MODEL "ESS" OUTDOOR

For outdoor, the **ESS** model is efficiency and economy. Inclined roof, areation slits. EASYBREAK sheet. Optional NOFLAMES unbreakable, tamper seal.



37x61x18 cm

Hose holder



On request
NOFLAMES



Optional 62046



Painted

Epoxy powder paint Ral 3000. Impact and scratch resistant. Inclined roof.

ESS	mt
62110_0120	15
62110_0220	20
62110_0520	25
62110_0320	30

Stainless Steel

No paint. Maintenance free.

ESS	mt
62110_1120	15
62110_1220	20
62110_1520	25
62110_1320	30

Painted
Zinc plate +
Galvanized + Painted.
10 year warranty against corrosion.

ESS	mt
62110_2120	15 mt
62110_2220	20 mt
62110_2520	25 mt
62110_2320	30 mt

Painted
Stainless steel +
Stainless steel aisi 304, + paint. Maintenance free.

ESS	mt
62110_3120	15 mt
62110_3220	20 mt
62110_3520	25 mt
62110_3320	30 mt

MODEL "BT" IN AND OUTDOOR

Suitable for in or outdoor. EASYBREAK sheet. Optional with NOFLAMES sheet, tamper seal.



37x60x17 cm

Hose holder



On request
NOFLAMES



Optional 62046



Painted

Epoxy powder paint Ral 3000. Impact and scratch resistant. Round edge, better safety.

BT	mt
62514_0120	15
62514_0220	20
62514_0520	25
62514_0320	30

Stainless steel

Stainless steel aisi 304. Maintenance free. Life warranty against corrosion.

BT	mt
62514_1120	15
62514_1220	20
62514_1520	25
62514_1320	30

Painted
Zinc plate +
Galvanized + Painted.
10 year warranty against corrosion.

BT	mt
62514_2120	15
62514_2220	20
62514_2520	25
62514_2320	30

Painted
Stainless steel +
Stainless steel aisi 304, + paint. Maintenance free.

BT	mt
62514_3120	15
62514_3220	20
62514_3520	25
62514_3320	30

MODEL "IPG" INDOOR OR RECESSED

Wall indoor or recessed, grey primer, EASYBREAK sheet. Optional NOFLAMES sheet, tamper seal



36x56x16 cm

Hose holder



On request
NOFLAMES



Optional 62046



Aluminium frame. Grey primer

Tamper seal



IPG	mt
With tamper seal	
62615_0120	15
62615_0220	20
62615_0520	25
62615_0320	30

Hose system
TM aluminium frame gold.
Cod. 62615_0420 mt 20



36x56 cm

On request with couplings BSS English, NST American, Afnor French, UNI Italy, others.

HOSE REEL CERTIFIED EN 671-1 / MED Marina

TECHNICAL CHARACTERISTICS FOR THE HOSE REEL

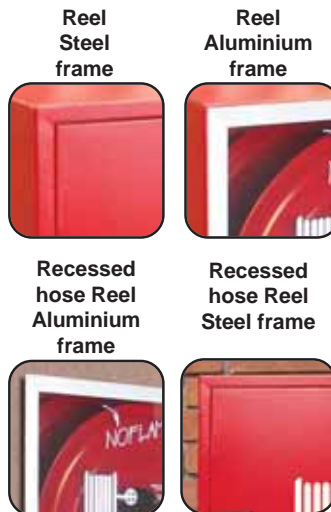
Certified CE EN 671-1, Directive regulation 305/2011/EU and Directive 96/98/CE (MED)
Cabinet made in steel supplied in 4 different versions:

- a) Hose reel with aluminium frame and NOFLAMES sheet.
- b) Hose reel with steel frame.
- c) Recessed hose reel with aluminium frame.
- d) Recessed hose reel with steel frame.

All the hose reel are supplied with:

- 1) Hose reel swinging at 180°, red Ral 3000
- 2) Water nozzle 1", EN 671-1.
- 3) Rubber hose, in according to EN 694 and BS 5274.
- 4) 1" brass ball valve PN16 complete with rubber hose.
- 5) Tamper seal.

Ball valve complete with manometer and 1" rubber hose, mt 1, to water supply connection .



MED

Reel with blind door



68x68x23 cm

Standard rubber hose



Cod.	mt
63120	20
63125	25
63130	30

Semirigid "Optional"



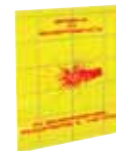
Cod.	mt
63120_1	20
63125_1	25
63130_1	30

Reel with glass

Aluminium frame, NOFLAMES sheet



68x68x23 cm



On request Easybreakable sheet.

Standard rubber hose



Cod.	mt
63120_2	20
63125_2	25
63130_2	30

Semirigid "Optional"



Cod.	mt
63120_3	20
63125_3	25
63130_3	30



Other sheet
see pag. 36 - 72- 80

Reel blind door + extinguisher



95x68x23 cm

On request Easybreakable sheet.

Standard rubber hose



Cod.	mt
63120_4	20
63125_4	25
63130_4	30

Semirigid "Optional"



Cod.	mt
63120_5	20
63125_5	25
63130_5	30

RECESSED HOSE REEL "TM"



68x68x23 cm



68x68x23 cm

Rubber hose

Cod.	mt
63120_6	20
63125_6	25
63130_6	30

Semirigid hose

Cod.	mt
63120_7	20
63125_7	25
63130_7	30

Rubber hose

Cod.	mt
63120_8	20
63125_8	25
63130_8	30

Semirigid hose

Cod.	mt
63120_9	20
63125_9	25
63130_9	30

HOSE REEL MADE IN STEEL RED PAINTED (on request Stainless steel)

PICTURES SHOWS CABINET IN STAINLESS STEEL AS OPTIONAL ORDERS

Wall fixed, blind door



20-25 mt 69x68x23 cm
30 mt 70x70x30 cm

Standard rubber hose

Cod.	mt
63120	20
63125	25
63130	30



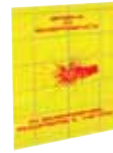
Semirigid "Optional"

Cod.	mt
63120_1	20
63125_1	25
63130_1	30



Wall fixed with easybreak

Unbreakable sheet NOFLAMES



On request
easy breakable
sheet

20-25 mt 69x68x23 cm
30 mt 70x70x30 cm

Standard rubber hose

Cod.	mt
63120_2	20
63125_2	25
63130_2	30



Semirigid "Optional"

Cod.	mt
63120_3	20
63125_3	25
63130_3	30



Recessed cabinet + extinguisher



20-25 mt 102x77x23 cm
30 mt 103x77x30 cm

Standard rubber hose

Cod.	mt
63120_4	20
63125_4	25
63130_4	30



Semirigid "Optional"

Cod.	mt
63120_5	20
63125_5	25
63130_5	30



Recessed cabinet



Standard rubber hose

Cod.	mt
63120_6	20
63125_6	25
63130_6	30



Cod.	mt
63120_8	20
63125_8	25
63130_8	30

Semirigid "Optional"

Cod.	mt
63120_7	20
63125_7	25
63130_7	30



Cod.	mt
63120_9	20
63125_9	25
63130_9	30

Standing foot, for hose reel and cabinet

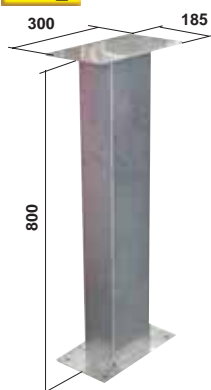
60002 AISI 304

60002_1 AISI 316L

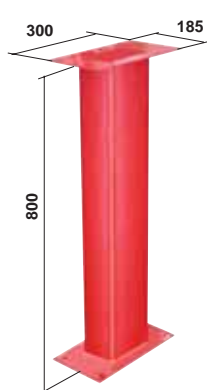
60002_1

60005

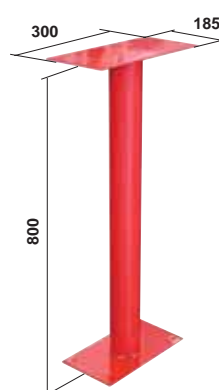
60052



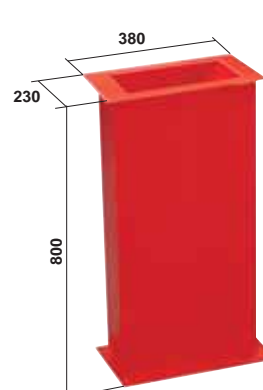
STAINLESS STEEL



Stainless steel AISI 316 +
Painted red RAL 3000



STEEL PAINTED



STEEL PAINTED



ON REQUEST
STANDING FOOT
STAINLESS
STEEL OR
GALVANIZED

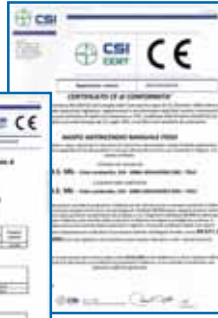
Technical data are subject to modification for improvements without prior notice

Hose reel wall type fix and swinging Certified CE - MED

Hose reel complete with semirigid hose DN 25, Certified CE EN 671-1 Regulation 305/2011/EU and Directive 96/98/CE (MED).

The system is complete with:

- Wall brackets;
- 1" Rubber hose;
- Water branchpipe;
- Rubber hose 1" (3/4" on request)
- Ball valve complete with manometer.



Fix reel

Cod.	mt
63000	20
63000_1	25
63000_2	30



Swinging reel

Cod.	mt
63120_10	20
63120_25	25
63120_30	30

Trolley hose reel

60030

For 1 or 2 hoses Certified EN 14540 up to 30 mt. with water branchpipe EN 671-2 (not included).

Allows a quick and easy transport and use.



Hose cabinet for hydrant according to 10779 mod "INDUSTRIA CR"

6



STEEL

Epoxy powder painted



Inox

Stainless steel AISI 304
On request AISI 316
On request painted red
Ral 3000.

Steel painted

Single kit

cod.	mt
62570	20

Double kit

cod.	mt
62571	20

SINGLE KIT

- 1 Hose
- 1 Water branchpipe
- 1 Key

DOUBLE KIT

- 2 Hoses
- 2 Water branchpipe
- 1 Key

Stainless steel

Single kit

cod.	mt
62550	20

Double kit

cod.	mt
62551	20

SINGLE KIT or DOUBLE KIT:

- Supplied with minimum request by EN 10779:
- Hose cabinet for outdoor painted red Ral 3000 o stainless steel.
- EASYBREAK PLASTIC GLASS.
- 1 or 2 water branchpipe CE EN 671 certified.
- Hose holder for bottom cabinet antiwetting.
- 1 or 2 Hose CE EN 14540 certified complete with coupling mt. 20, 25 or 30.
- Universal key for hydrant, coupling and foam mobile unit.

Empty hose cabinet with transparent EASYBREAK frame, and tamper seal

Model round corner

Aluminium frame, for indoor or outdoor.



Other sheet see pag. 36-72-80

Tamper seal

61243 37x60x17

Easybreak 60009

61272 45x69x23

Model Industrial 626/94

For outdoor use or recessed complete with tamper seal.



61148_1 38x63x18 Stainless steel

61148 38x63x18

61149 37x60x20

61177 45x66x23

61178 50x68x25

Stainless steel AISI 304

Finish polished. Aluminium frame. For corrosive environment.



Other sheet see pag. 36-72-80

Tamper seal

61144 37x61x17

Easybreak 60010

61175 45x70x23

Model recessed

Steel made, grey painted, aluminium frame.



Other sheet see pag. 36-72-80

Tamper seal

61242 36x56x16

Easybreak 60009

61271 45x66x23

Model outdoor

Steel frame, red painted. For outdoor use.



Other sheet see pag. 36-72-80

61142 37x61x18

Easybreak 60011

61172 45x69x23

Plastic cabinet

Extremely strong and climate resistance. 5 years guarantee.



61134

54x72x27

It can hold 2 hoses or 2 extinguishers 12 kg

Fiber glass cabinet

61131 EXTRA LUX For extinguisher, hose or DPI, marine climate

61132 kg 6
28,5x65,5x23

61137 kg 12
30x75x22

61136 56x56x22 for 3 extinguishers from kg 6 or hose

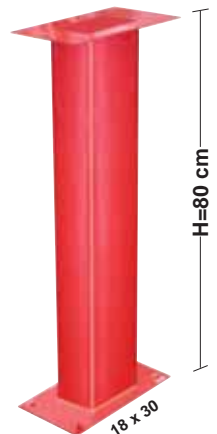


for extinguishers kg 6 / 9 / 12



69x39x26 cm

60002_1
FOOT STAND



H=80 cm

18 x 30

Stainless steel AISI 316
Painted red RAL 3000

Technical data are subject to modification for improvements without prior notice

IDRAKIT - Plastic cabinet Quick replacement

Universal for in or outdoor and wall applicati on without back side. Performed cut for quick replacement without removing landing valve.

61152 Quick replacement. Cabinet with sheet 60032



Cutting



Insert



61152_1 Quick replacement Cabinet without sheet



45x50x19 cm

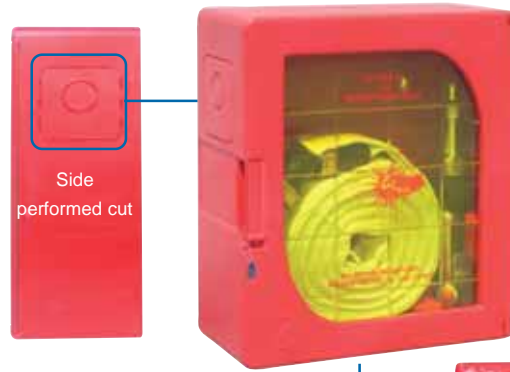
Mounting from below



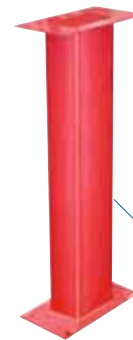
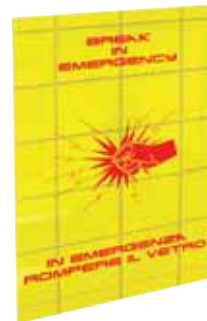
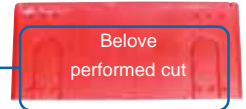
Mounting from the side



61140 Quick replacement wall cabinet with plastic base and sheet 60032



45x50x19 cm



H= 800 mm

60002
Foot stand
Inox / painted

Other see
pag. 75

WALLKIT - Plastic frame

WALLKIT frame with EASYBREAK sheet. It can be used to replace existings frames for recessed base cabinets.



60039 50x56 h cm

Frame for steel cabinet

It can be used to replace existings frames for recessed base cabinets. Easy fixing in the wall. Transparent windows allow easy view of inside equipment. Tamper seal.

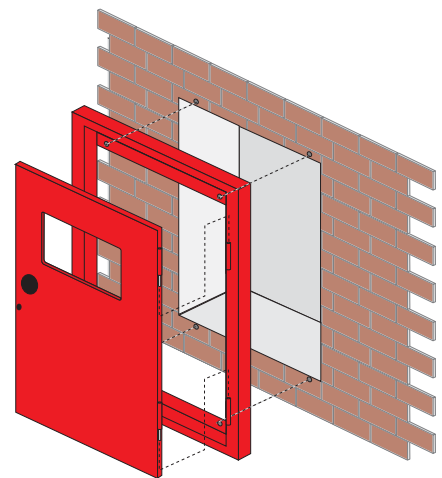
Available stainless steel shine



Tamper seal

61141 41x65x2 cm

61143 49x72x2 cm



Aluminium frame with sheet for wall cabinet

Aluminium frame supplied without sheet. Must be order separately.



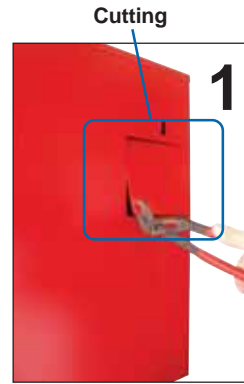
Frame	Type of cabinet	Cabinet	Sheet
69102	Wall type 343 x 567	61243	60009
69103	Wall type 426 x 672	61272	60014
69104	Outdoor 358x585	61144	60010
69105	Outdoor 438x650	61175	60015
69107	Recessed 663x457	61271	60013
69106	Recessed 560x360	61242	60008

Steel hose cabinet "Industria 626" Quick replacement

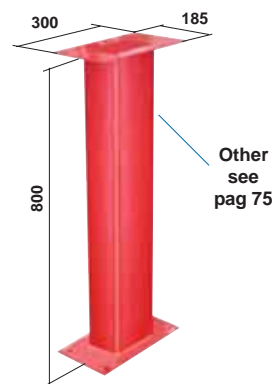
Universal quickreplacement for in - outdoor and recessed use. Performed cut for quick replacement without removing landing valve

61133 Hose cabinet - Dim. 450x550x250

61135 Hose cabinet - Dim. 450x690x270



Mounting from the side



Mounting from below



SPANNER FOR LANDING VALVE

69042 Spanner for landing valve 1 1/2"



Mounting a new landing valve



Remove the nut and the handwheel

ESSENTIAL FOR A CORRECT TIGHTENING

69043 Spanner for landing valve 2"



Insert the key tight the landing valve



Remove the key



Easybreak glass			Cabinet
Cod.	DN cabinet	sheet mm	Cod.
60008	45 Recessed	325 x 525	61242
60009	45 Round border	306 x 530	62143
60010	45 Stainless steel	325 x 540	61144
60011	45 Stainless steel	284 x 500	61145
60012	70 Outdoor	422 x 570	61172
60013	70 Recessed	390 x 530	61271
60014	70 Round border	385 x 628	61272
60015	70 Stainless steel	400 x 615	61175
60016	70 Stainless steel	365 x 580	61176
60038	45 Outdoor	292 x 495	61142
60063	70 Outdoor	366 x 575	61172
60031	custom orders dimensions		

Noflames glass			Cabinet
Cod.	DN cabinet	sheet mm	Cod.
60008_1	45 Recessed	325x 525	61242
60009_1	45 Round border	306x 530	61243
60010_1	45 Stainless steel	325x 540	61144
60011_1	45 Stainless steel	284x 500	61142
60063_1	70 Outdoor	366x 575	61172
60013_1	70 Recessed	390 x 530	61271
60014_1	70 Round border	390 x 530	61272
60015_1	70 Stainless steel	400x 615	61175
60031_1	custom orders dimensions		

NOFLAMES Unbreakable

Cutter for plastic sheet.


Cutter for secure break plastic sheet.

60053 Cutter for plastic sheet.



60054 Spare blades for cut sheets 5 pcs.

Rubber gaskets



60026 DN 45
60027 DN 70

Rubber sleeves

Cod.	DN
65007	DN 25
65002	DN 45
65003	DN 70

Protect the wire clamp or aluminum sleeve.



Aluminium sleeves

More efficient than the wire pressing on hoses.



65001 DN 45
65005 DN 70

Coupling according to Italian standard


Professional heavy couplings complete with gasket.



Cod.	DN	Kg~	Thread
65251	25	0,25	M 34x3
65452	45	0,90	M 56x4
65702	70	2,20	M 85x6

Coupling according to Italian standard

Standard couplings complete with gasket.




Cod.	DN	Kg~	Thread
65451	45	0,48	M 56x4
65701	70	1,65	M 85x6
65100	100	5,20	M 115x6
65125	125	6,60	M 140x6

Landing valve

Weight kg ~

66001 UNI 45 x 1 1/2" 0,7 kg
66070 UNI 70 x 2" 1,45 kg
66071 UNI 70 x 2 1/2" 2,50 kg

Standard 45°



66145 UNI 45 x 1 1/2" Weight >0,91 kg

Long thread
Heavy type PN 16
at 45°



63008 UNI 45 x 1 1/2"

at 90°



66072 UNI 45 x 1 1/2" a 45° with manometer M10x1 according to EN 10779



20512
Spare part manometer

66073 2" x 2" **66076** 2 1/2" x 2 1/2"



66074 STORZ 52-c Lug 66 x 2"
66075 STORZ 52-c Lug 66 x 1 1/2"



66013 2 1/2" - 2 1/2" M BSP



BSS 336 Inst x 2 1/2"

66013_1 2 1/2" Flanged



Blind cap female according to Italian standard

Cod.	Brass	Cod.	C. Iron
66014	DN 45	69031	DN 45
66015	DN 70	69032	DN 70
66016	DN 100		

Cast Iron



Brass



Blind cap male according Italian standard

Cod.	Diameter
66027	UNI 45
66028	UNI 70
66029	UNI 100



Brass made

60082

DN 70 M
Plastic made

Gate valve

Brass made, PN 16.



Cod.	Diam
66004	1/2"
66005	3/4"
66006	1"
66007	1 1/4"
66008	1 1/2"
66009	2"
66010	2 1/2"

Ball valve

Brass made, PN 20.
On request PN 40 o PN250



Cod.	Diameter	66031
66017	1/4"	Ball valve 1" PN 25 with venting valve
66018	3/8"	
66019	1/2"	
66020	3/4"	
66021	1"	
66022	1 1/2"	
98226	2"	



Risers, Breechings connections

68636

Clapped siamese connections

inlet B75 Storz or 2 1/2" bsp



out 2xC52 Storz or 2" bsp

68327

Not clapped siamese connections

inlet B75 Storz or 2 1/2" bsp



out 2xC52 Storz or 2" bsp

all types
of couplings
available

68325

Connection with ball valve

Inlet B75 Storz or 2 1/2" bsp



Out 2xC52 Storz or 2 1/2" bsp

68328

Connection with ball valve

In B75 Storz 2 1/2" bsp



Out 3xC 52 storz or 2 1/2" bsp

Adaptors Storz German Din standards

Used in Germany, in most nord and east european countries. For correct identification specify the hose "d" and LUG space "D".



Storz to Storz
reducer

Cod.	d	LUG	thread
65300	52C	66	2" f
65300_1	52C	66	2" f
65303	75B	89	2 1/2" f

Cod.	LUG	LUG
65305	66	31
65307	81	66
65308	89	81

Adaptor with thread for hydrants

Cap with thread for hydrants



DIN 405



DIN 405

Cod.	d	LUG	thread	thread
65310	52C	66	2"m	50x1/6"
65311	65C	81	2 1/2" f	60x1/6"
65312	75B	89	2 1/2" f	65x1/6"

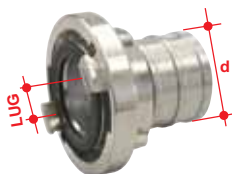
Cod.	d	LUG	thread
65304	52C	66	50x1/6"
65306	65C	81	60x1/6"
65309	75B	89	65x1/6"

Coupling Storz DIN Standard

Cod.	d	LUG
65338	38	41
65302	45	59
65344	45	66
65345	70	89
65352	52	66
65363	63	81
65370	70	81
65371	75	89

Aluminium made.
On request made in
Brass. Add. at the end to
the cod. _1

Used in Germany, in most nord and east european countries. For correct identification specify the hose "d" and LUG space "D" distance between two internal thets.



Adaptors Storz to pipe

Cod.	d	LUG
65300	2" f	66
65301	2 1/2" f	81
65303	2 1/2" f	89

Adaptors Storz - Storz

Cod.	LUG	LUG
65305	66	31
65307	81	66
65308	89	81

Coupling, adaptors BSS instantaneuous

65500	2 1/2" x D = 38 mm	Aluminium made
65501	2 1/2" x D = 63 mm	
65502	2 1/2" x D = 63 mm Brass made	



66820_1 2 1/2" f



66820 2" f

65504 2 1/2" f

65708 2" f

65506



65503 2 1/2" m

65507 2" m

plastic cap

65505 2 1/2" m

65508 2" m

Pillar Hydrant EN 14384 Type AD - ADR

TYPE AD Working pressures up to 16 bar. Tested while open to 24 bar, closed to 21 bar.

It is equipped with an anti-freeze drain that enables the hydrant to be emptied after use.

All the internal components are easy to dismantle and maintain.

Epoxy powder painted in red RAL 3000. Hydrant outlets Storz Din German Standard (other on request). Inlet flange as customer request.

TYPE ADR with pre-set break off point and automatic shut-off in case of breakage to prevent water escape. Above ground section 360° rotational after fitting.

Opening against pressure that guarantees an improved seal when the hydrant is closed due to the pressure interaction.

Pentagonal hydrant key with cap which locks onto the hydrant body to prevent tampering. Axial coupling onto the water mains.

- Surface hydrant in cast iron G 20 ISO 185 for pressures up to 16 bar.
- It is equipped with an anti-freeze drain that enables the hydrant to be emptied after use.
- All the internal components are easy to dismantle and maintain.
- Epoxy powder painted in red RAL 3000. Hydrants outlets Storz german Din Standard (other on request)
- Hydrant tested while open to 24 bar, closed to 21 bar.



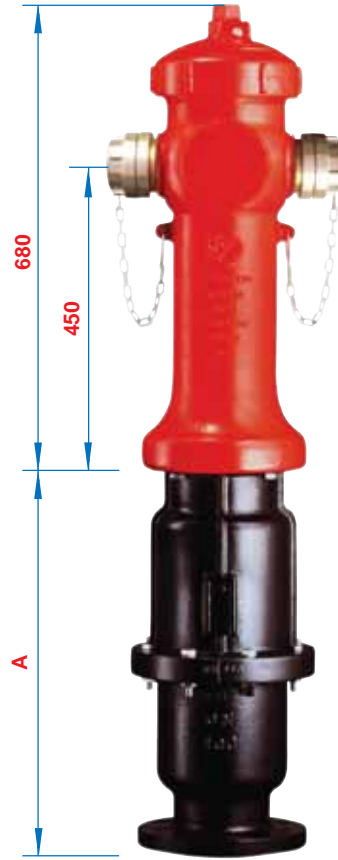
Type AD simple



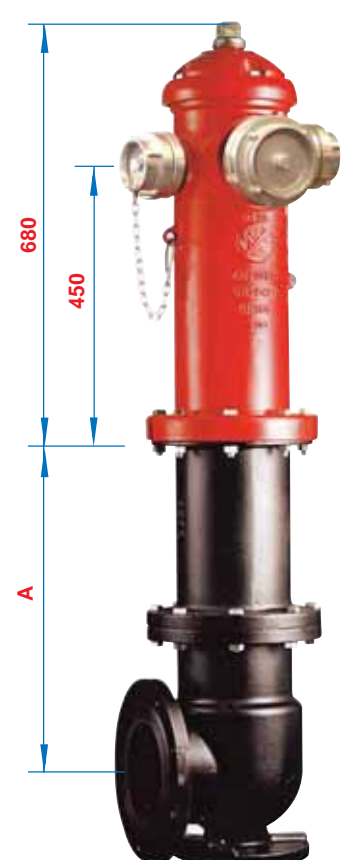
BSS 336

69001

For hydrant, coupling and foam mobile unit.



Type ADR with pre-set break



Type ADR elbow 90° included

Cod.	DN	Outlet	A
69101	50	2 x 2"	500
69202	70	2 x 2 1/2"	500
69204	70	2 x 2 1/2" + 4"	500
69301	80	2 x 2 1/2"	500
69303	80	2 x 2 1/2" + 4"	500
69307	80	2 x 2 1/2"	1000
69308	80	2 x 2 1/2" + 4"	1000
69401	100	2 x 2 1/2"	500
69403	100	2 x 2 1/2" + 4"	500
69407	100	2 x 2 1/2"	700
69408	100	2 x 2 1/2" + 4"	700
69503	150	2 x 2 1/2" + 4"	500
69505	150	2 x 2 1/2" + 4"	1000

Cod.	DN	Outlet	A
69206	70	2 x 2 1/2"	500
69207	70	2 x 70 + 4"	500
69305	80	2 x 2 1/2"	500
69306	80	2 x 2 1/2" + 4"	500
69309	80	2 x 2 1/2"	1000
69310	80	2 x 2 1/2" + 4"	1000
69405	100	2 x 2 1/2"	500
69406	100	2 x 2 1/2" + 4"	500
69409	100	2 x 2 1/2"	700
69410	100	2 x 2 1/2" + 4"	700
69504	150	2 x 2 1/2" + 4"	500
69506	150	2 x 2 1/2" + 4"	1000

Cod.	DN	Outlet	A
69301_1	80	2 x 2 1/2"	500
69303_1	80	2 x 2 1/2" + 4"	500
69401_1	100	2 x 2 1/2"	500
69403_1	100	2 x 2 1/2" + 4"	500
69503_1	150	2 x 2 1/2" + 4"	860

Coupling Storz for hydrant

Cod.	d	LUG	Connection
65310	52	66	50 x 1/6" x 2"m
65311	65	81	60 x 1/6" x 2 1/2"m
65312	75	89	65 x 1/6" x 2 1/2"m

Cabinet for pillar hydrant see page 76

COUPLING ADAPTOR FOR HYDRANT

NH Coupling



On request

Thread adaptor for hydrant

DIN 405



Storz coupling

Thread adaptor for hydrant

DIN 405



BSS coupling



pag. 81

Cod.	d	LUG	thread	thread
65310	52C	66	2"m	50x1/6"
65311	65C	81	2 1/2"f	60x1/6"
65312	75B	89	2 1/2"f	65x1/6"

Cod.	d	LUG	thread
65304	52C	66	50x1/6"
65306	65C	81	60x1/6"
65309	75B	89	65x1/6"

SPECIAL HYDRANT

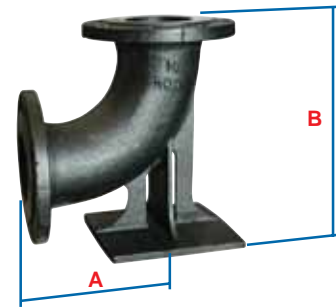
Typically used in High risk area where does not exist freezing risk. Manufactured in various solution from 4 up to 8" and multiple outlet. Main gate valve may be fixed for each outlet or 1 underground. The hydrant can be supplied with 2 x 2 1/2" and 2 x 4" outlets also with gate valve.

The hydrant is manufactured in cast iron G22, in cast iron with 3% nickel or in spheroidal cast iron GS 400/15. The hydrant is equipped with a top flange which make it suitable for the possible application of monitors.



PILLAR HYDRANT 90° ELBOW

Necessaria quando si vuole installare una saracinesca.



Cod.	DN	A mm	B mm
69006	50	135	240
69007	70	150	250
69008	80	180	270
69009	100	180	300
69035	150	210	330

Gate valve for pillar hydrant

Manufactured in cast iron, suitable for water till 80°C. Typically used to control the flow in fire fighting applications. Flanges may be according international standards or to customer specifications.



Cod.	DN
69050	50
69051	65
69052	80
69053	100
69054	150

Gasket



Cod.	DN
69036	50
69037	65
69038	80
69039	100
69040	150

Flange PN 16.



Cod.	DN	N° hole	thread
69020	50	4	M 16
69021	65	4	-
69022	80	8	M 16
69023	100	8	M 16
69025	150	8	M 20

Nut and screws



Cod.	DN	N°
69026	50	4
69027	65	4
69028	80	8
69029	100	8
69030	150	8

Underground hydrant and cover

Manufactured in cast iron, suitable for water till 80°C. Also on request DN 80 and 100 EN 14339:2006.

Cover for hydrant or gate valve



69004	DN 50 B45 dim 490 x 257
69005	DN 65 B70 dim 470 x 306

69010	DN 45 240 x 390 x 310
69011	DN 70 240 x 430 x 335

Standpipe for underground hydrant

Can be equipped with all types of couplings, Storz, BSS, UNI, Afnor, etc.



Cod.	UNI	Uscite	H mm
With gate valve			
69012	45	1 x 45	755
69013	70	1 x 70	870
69014	45	2 x 45	755
69015	70	2 x 70	870
Without gate valve			
69016	45	1 x 45	630
69017	70	1 x 70	755
69018	45	2 x 45	630
69019	70	2 x 70	755

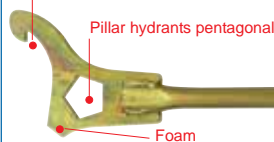
SPANNER FOR PILLAR HYDRANTS AND HOSES

69000 Universal spanner for couplings up to 3"



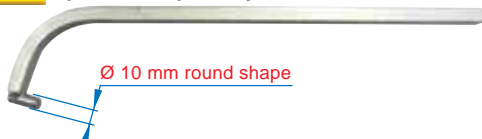
Hose couplings

For pillar hydrants, hose couplings, foam drums.



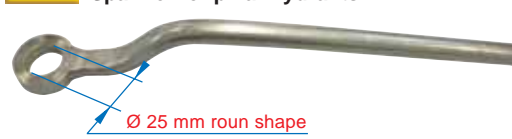
69001

69002 Spanner for pillar hydrants.



Ø 10 mm round shape

69033 Spanner for pillar hydrants.



Ø 25 mm round shape

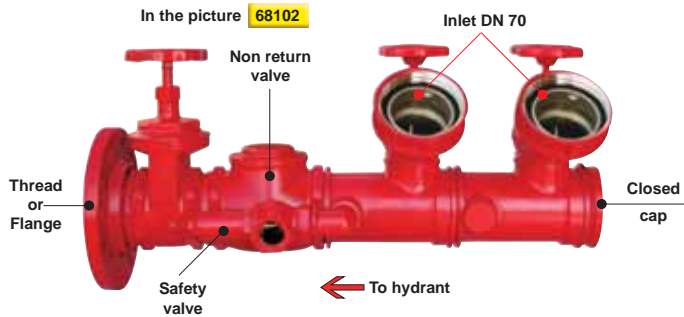
69003 Key for underground valves or gate valves



Square mm 30

Risers, Breechings connections Delivery type according to EN 10779

Are supplied in horizontal version.
With one or two swivel connections DN 70 - female.
They are normally supplied with flow direction from right to left, horizontal mounting. (see photo front view).
If need vertical units specify when ordering.



Cod.	DN	DN 70 inlet	Type Thread/Flange	L mm
68111	2"	1	Oriz / thread	280
68121	2 1/2"	1	Oriz / thread	305
68122	2 1/2"	2	Oriz / thread	445
68101	3"	2	Oriz / flanged	580
68102	4"	2	Oriz / flanged	630
68103	6"	3	Oriz / flanged	1330



For vertical units specify when ordering.

Risers cabinet

Steel door + temper seal and inspection windows. Epoxy powder painted red Ral 3000 external resistant. Recessed or outdoor mounting.

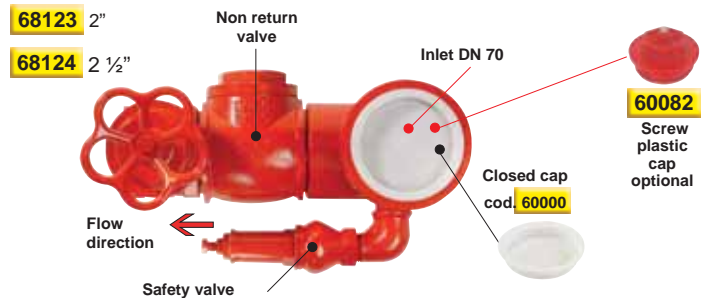


Stainless steel on request, with aluminium frame and NOFLAMESsheet.

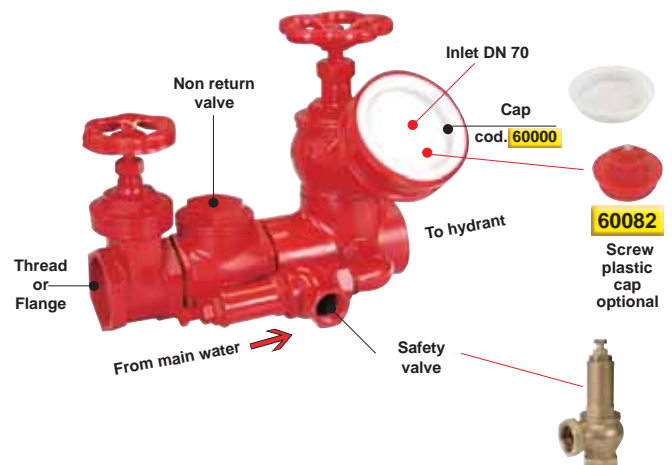
Cod.	Type	Dimensions mm
61301	2"	600 x 500 x 300
61302	3"	800 x 500 x 300
61306	4"	1000 x 500 x 470

Risers, Breechings connections Delivery type according to EN 10779

Are supplied in horizontal version.
With one or two swivel connections DN 70 - female.
They are normally supplied with flow direction from right to left, horizontal mounting. (see photo front view).
If need vertical units specify when ordering.



Risers, Breechings connections according to to EN 10779



Cod.	DN	UNI 70 inlet	Tipo Thread/Flanged	L mm
68111_1	2"	1	Oriz / thread	280
68121_1	2 1/2"	1	Oriz / thread	305
68101_1	3"	2	Oriz / flanged	580

68002 3/4"
68001 1"

For vertical units specify when ordering.

Flanged backflow preventer

Reduced pressure principle prevents potentially contaminated fluid polluting the supply system.
Highly reliable, easy to install and to maintain.
Approved EN 12729
Nominal Pressure: 10 BAR
Technical characteristics
Cast iron GG25 body
Dimensions:
Connections:
DIN 2501/1 - PN10/16
Operating range
Max. temperature: 65°C



Cod.	DN
45300	65
45301	80
45302	100

Filter Y

For water systems, heating, fire prevention.
Easy maintenance and cleaning.
Face to face: DIN 3202 F1
Flanges: DIN 2501, PN 16
Pressure: from 0 to 16 bar
Max pressure:
DN 50÷DN 300 PN16
DN 350 PN 10
Temperature:
from -10 to 120°C



Cod.	DN
45303	65
45304	80
45305	100

Hose roller

According to EN 671-3, hose should be tested periodically. This unit enable quick rolling of the flat hose and discharge of the inner water after its use in case of dire or for testing purpose.

98014 On wheels, indicated for car service on site.

With rewind handle



98014 - 1

With standing base indicated in workshops.



Manual binding unit

98058

Easy to use, small and compact, can make binding of any kind of hose and couplings. It need to be fixed in a clamp

Fast, cheap, efficacious.



Fire hose testing unit EN 671-3

98010 Compressed air testing

The EN 671-3 requires annual pressure test, usually at 3 bar, and testing every 5 years.

Standard manifold 2 place.
On request 4 or 6 places.
With the accessories to the side, unroll the hose along the entire length can test two hoses simultaneously.

Technical characteristics:

Motor 220 V 1,5 Kw
Max pressure 10 bar
Pressure switch from 0 to 10 bar
Manometer Ø 100 mm with oil
Dim. 40 x 32 x 63 cm - Weight kg 22
Just 30 seconds to pressure
1 hose 20 mt 45 mm.

Accessories on request

Coupling 1 1/2" M x 2" F
Coupling 1 1/2" F x 2" M
Manifold enable simultaneous of 6 places.



Electric blinding unit

Electric blinding unit with galvanized wire. Suitable for all type of hose up to 4" DN 100.



220 volt 50/60 hz 1 HP
15 /20 pcs for time

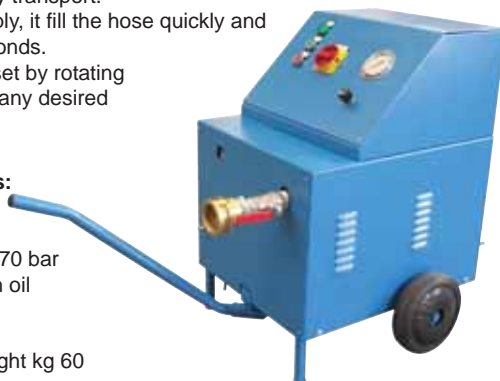
Fire hose testing units EN 671-3

98030 Water pump test

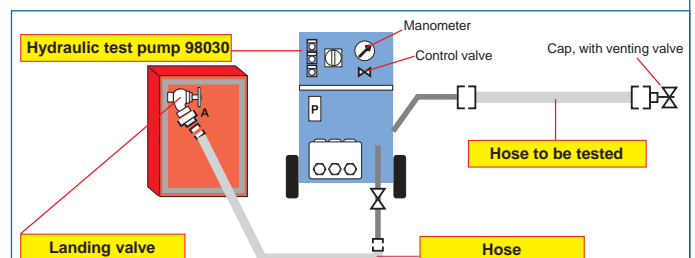
This pump can test all kind of fire hose with water. It is very fast and efficient. EN 671-3 require the test every 5 years at 12 bar. Mounted on trolley for easy transport. Connected to a water supply, it fill the hose quickly and the test is done in few seconds. The pressure test can be set by rotating the control valve slowly to any desired pressure value.

Technical characteristics:

Motor 220 V 1,5 Kw
Max pressure >50 bar
Pressure switch from 0 to 70 bar
Manometer Ø 63 mm with oil
CE Control panel
Complete with couplings
Dim. 59 x 70 x 55 cm Weight kg 60



Suitable to test cylinder for portable and trolleys fire extinguishers in according to local regulation.



Kit for water supply flow test



Indispensable for technicians that have to test a water pipe network. Can check and record static and dynamic pressure. Nozzles has calibrated bore so that can read with a gauge the dynamic pressure of the water flow and compare with a table and the graphic showing the correct value needed. In case the pipe network or a pillar hydrant, or a landing valve has an obstruction can easily discovered as a result of anomalous pressure drop. A gauge 100 mm diam with oil absorbs the back hammer effect and guarantee a correct read.

- 67002** Complete with:
- Nozzle calibrated Ø 16
 - Nozzle calibrated Ø 12
 - Ball valve
 - adaptors
 - Blank cap to read static pressure
 - Spanner for couplings
 - Manual
 - Graphic chart and flow rate chart
 - Conformity declaration.



Dimensions 500 x 255 x 170 mm
Standard Couplings are Storz, other available

Water flow test nozzles

67005 Nozzle diam 12

67006 Nozzle diam 16

Nozzle to make test of water pipe network. Can check static and dynamic pressure and flow rate. Ideal test fire hydrant 1 1/2", 2", 2 1/2"

- Nozzles 12 - 16 mm.
- Manual
- Charts, flow and pressure
- Conformity declaration.



67000 Nozzle diam 7



Suitable to test hose reel flow rate.

Standard Couplings are Storz, other available

**Cap DN 45
With gauge**

Blank cap, gauge, drain valve. It permits to test the static pressure of landing valves and pillar hydrants.



60028

6

Pitot tube for water supply test

It is a device than can check the dynamic pressure and flow speed of water, enabling to know exact flow rate.

For professional technicians

Standard Couplings are Storz, other available

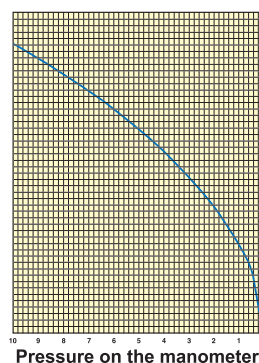


Box complete of:
PITOT Pipe stainless steel
Gauge 0/10bar 0-10 bar
Gauge 0/25 bar0-25 bar

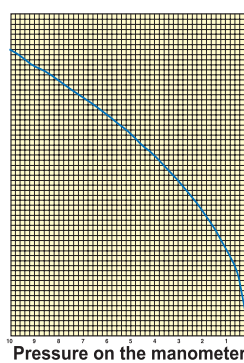
67008
Instructions, flow charts,
conformity certificates'

**Flow diagrams DN 25 - 45 - 70,
used with nozzles calibrated Ø 8 - 12 - 16 mm**

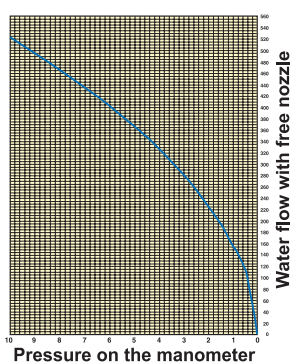
DN 25 nozzle diam.8 mm



DN 45 nozzle diam.12 mm



DN 70 nozzle diam.16 mm



Marina MED / SOLAS equipments

ORION

Industrial or Naval use. Polyester high resistance, PVC internally coated.



Ø 38 mm

Cod.	L = mt
57115	mt 15
57215	mt 20
57315	mt 25
57415	mt 30

Ø 45 mm

Cod.	L = mt
57116	mt 15
57216	mt 20
57316	mt 25
57416	mt 30

Ø 52 mm

Cod.	L = mt
57118	mt 15
57218	mt 20
57318	mt 25
57418	mt 30

Ø 63 mm

Cod.	L = mt
57119	mt 15
57219	mt 20
57319	mt 25
57419	mt 30

Ø 70 mm

Cod.	L = mt
57113	mt 15
57213	mt 20
57313	mt 25
57413	mt 30

The code indicates the hose without connections, specify when ordering the type of connection required.

Available in diameters of, mm 38, 45, 52, 63, 75.

UNI



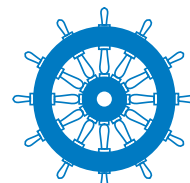
BSS



STORZ



NST



MED

Fire hose MED SOLAS

suitable also, 1 1/2" (38 mm), 2" (52 mm), 2 1/2" (63 mm), with couplings Storz, BSS, NST.

Polyester high resistance, internally coated with, Thoni quality, superb in the market appreciated by 30 years. Anti aging, anti mould.

mm 45

57224 mt 20

mm 70

57227 mt 20

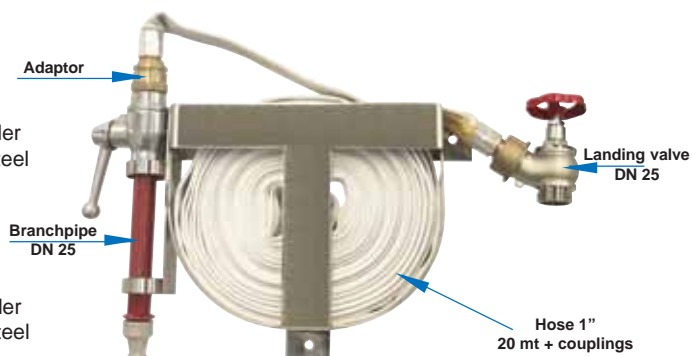


MED

HOSE HOLDER 25/45/52mm. MARINE SHINE, STAINLESS STEEL

50002 Marine hose holder shine stainless steel Ø 45 mm.

50003 Marine hose holder shine stainless steel Ø 25 mm.



Other products Marina MED:

Fire extinguishers	Pag.	Foam equipments	Pag.
- Portable	30	- Foam portable applicator	121
- Trolleys	31		
- Easyfire - Firekill	32 - 33		
		Individual protection	
		- Fire suit Med	142
		- Helmet for naval Fireman	145
Equipments recharge			
- Compressor breathing apparatus	62 - 63		
Fire fightings equipments			
- Hose	68		
- Water branchpipe	71		
- Hose reel	74 - 76		

Water nozzle branchpipe Marina MED EN 15182

WATER CURTAIN, PROTECTS FIREMAN Additional ring, produce a protective water shield.

BSS INSTANTANEOUS
Shut off - full jet - spray jet
Strong aluminium in light alloy.

64125 2" - Ø 12 mm

64125_1 2" - Ø 12 mm

64125_2 2" - Ø 12 mm

64126 DN 70 - Ø 16 mm

64126_1 2 1/2" - Ø 16 mm

64126_2 DN 70 - Ø 19 mm

64126_3 2 1/2" - Ø 19 mm



STORZ

Shut off
full jet
spray jet
Strong aluminium
in light alloy.

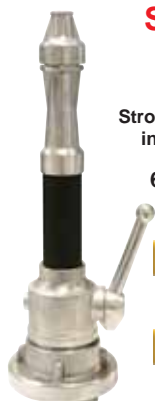
65 Lug 81

64126_4

2 1/2" - Ø 16 mm

64126_5

2 1/2" - Ø 19 mm



64227_2

2 1/2" - Ø 16 mm

64125_10

Nozzle 2 1/2"
High flow.
Brass made



64126_10

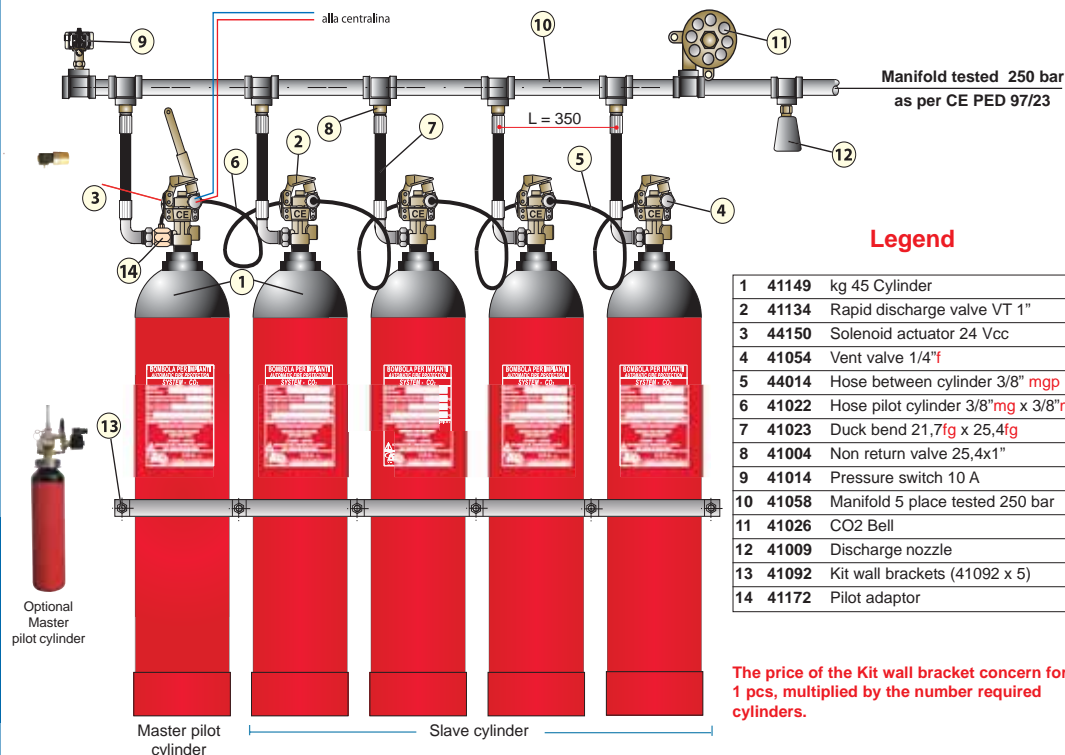
Nozzle 2"
High flow.
Brass made



CO2 system with rapid discharge valve VT

VT valves CE marked, offer many advantages. Complete with pressure and manual actuator. They guarantee high flow, easy maintenance, leakage free.

System with 5 cylinder charged with 45 kg complete with VTI valve



Cylinder, charged with CO2 VT valve and cap



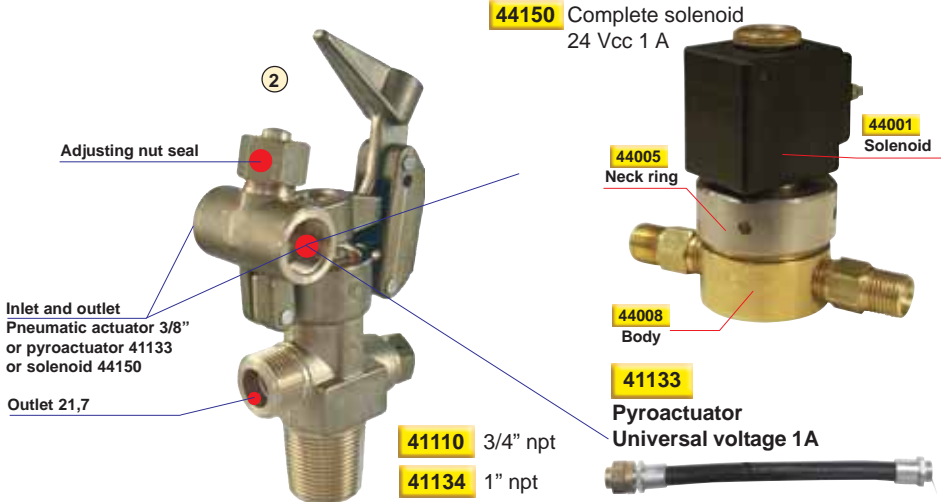
Cod.	kg	Lt	Ø	H
41148	30	40	1"	130
41149	45	67	1"	157
41171	54	80	1"	174

Rapid discharge valve type VT

Therapid discharge valve type VT are characterized by the absolute simplicity and offer numerous advantages respect the traditional rapid discharge valve type VFR (41128). The perfect seal is obtained by the adjustable lever. Also supplied with pneumatic actuator.

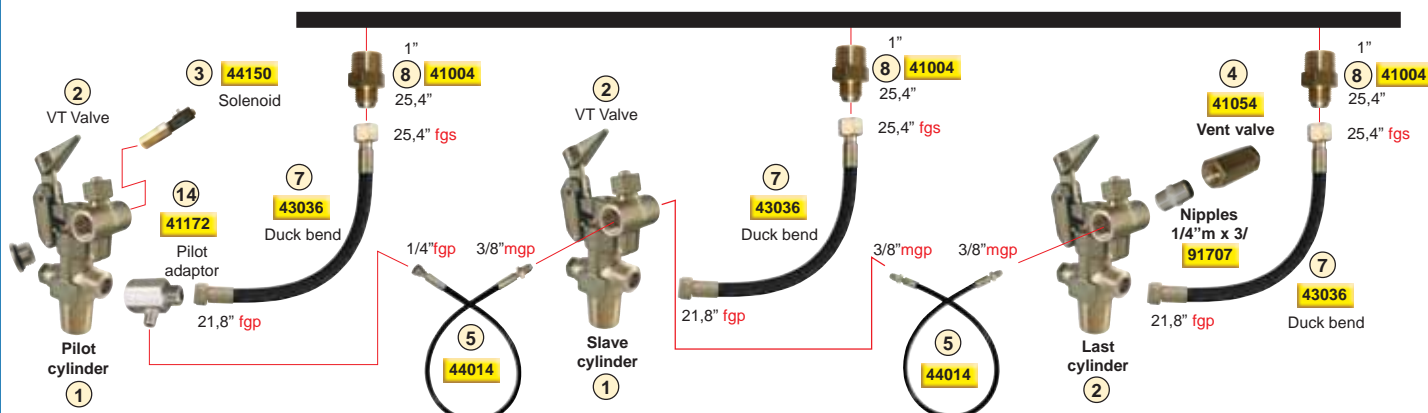
Simple and efficacious

- 1 Easy to recharge
- 2 Built-in pneumatic actuator (in and out).
- 3 The sealing pad resists dozens of actuation before being replaced and its cost is negligible.
- 4 Incorporates the pneumatic actuator.
- 5 For CO2, nitrogen and other gases.
- 6 W.P 250 bar and 300 bar for inert gases.
- 7 Safety pin prevents accidental discharge during maintenance.
- 8 After activation remain open open, and need manual reset.



Electric actuator

Accessories for VT CO2 manifold



f = female g = swivel k = at 90° o = seat ogive p = seat plane s = seat flared

CO2 system with traditional rapid discharge valve type VFR

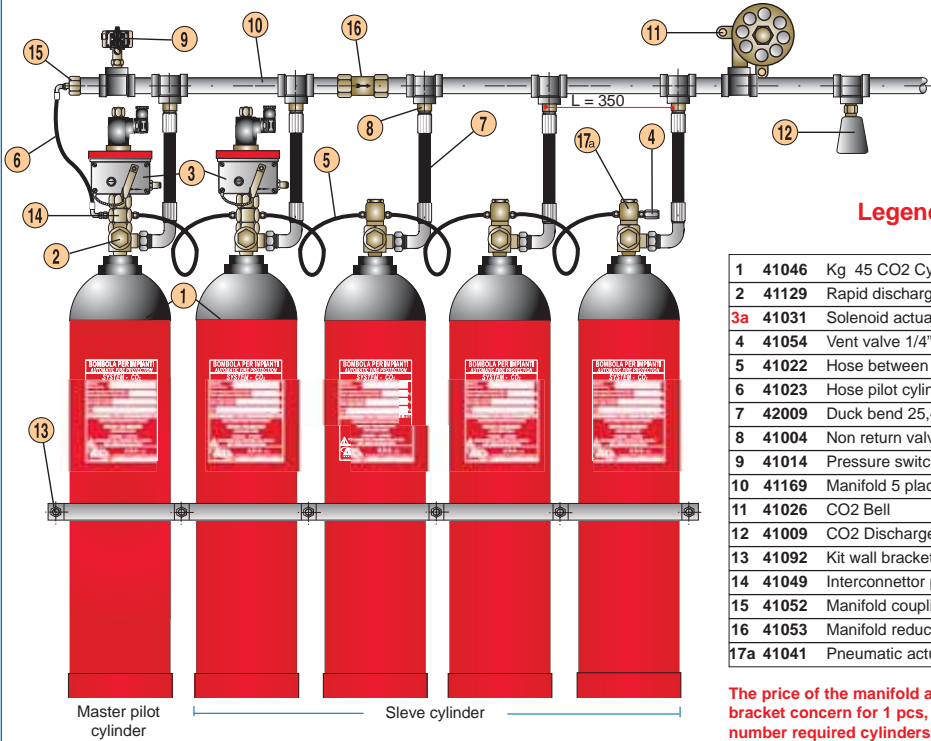
The extinguishing action of Carbon Dioxide (CO₂) is:

- To suffocation by subtracting the oxygen in air;
- For intensive cooling caused by the rapid expansion of the gas.

It can be used on live electrical equipment. It is used to extinguishing fires of flammable liquids, eg. gasoline, oil, paint, alcohol, etc..

System with 5 cylinder charged with 45 kg complete with VFR valve

As actuator can be used a pilot cylinder cod 44010.



Legenda

1	41046	Kg 45 CO2 Cylinder
2	41129	Rapid discharge valve VFR 1"
3a	41031	Solenoid actuator 3 44150
4	41054	Vent valve 1/4" f
5	41022	Hose between cylinder
6	41023	Hose pilot cylinder 1/4" fg
7	42009	Duck bend 25,4fg
8	41004	Non return valve 25,4 x 1" m
9	41014	Pressure switch CO2
10	41169	Manifold 5 places
11	41026	CO2 Bell
12	41009	CO2 Discharge horn 1/4"
13	41092	Kit wall brackets (41092 x 5)
14	41049	Interconnector pilot cylinder
15	41052	Manifold coupling 1" x 1/4"
16	41053	Manifold reduction flow
17a	41041	Pneumatic actuator

The price of the manifold and for the Kit wall bracket concern for 1 pcs, multiplied by the number required cylinders.

Cylinder, charged with CO2 VFR valve and cap



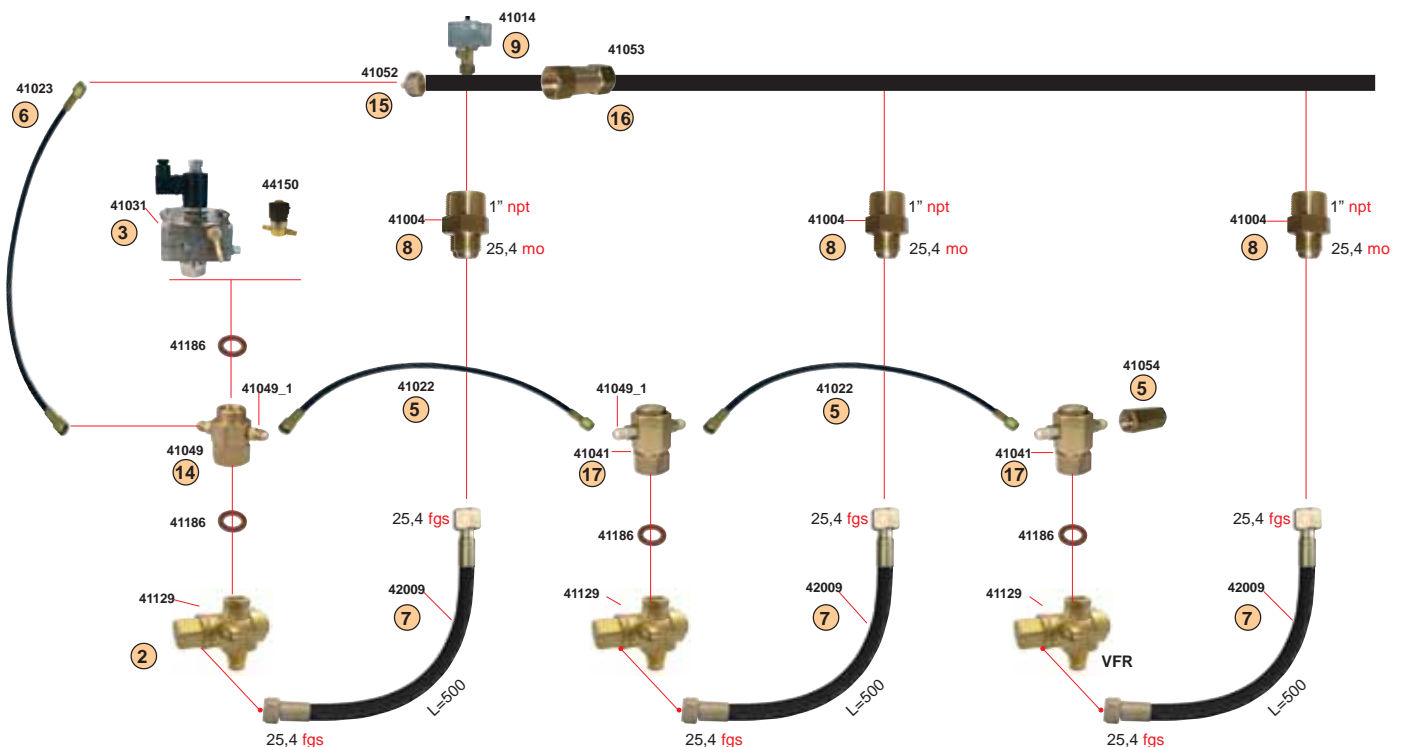
On request
RINA
approved

Cod.	kg	Lt	Ø	H
41044	20	27	3/4"	110
41045	30	40	1"	130
41046	45	67	1"	157
41173	54	80	1"	175

With the implementation of European legislation PED 97/23, manifolds must be tested and certified. All equipment shall be subjected to hydraulic test pressure and the manifold must be marked with a CE label with all their data and issued a

certificate from the manufacturer. ABS made manifolds according to the laws and shall issue the necessary certification. We provide piping and nozzle calculation with a specific computer software according to EN / NFPA.

Accessories for VFR CO2 manifold



f = feale g = swivel k = at 90° o = ogive seat s = flaret seat

VFR CO2 Rapid discharge valve

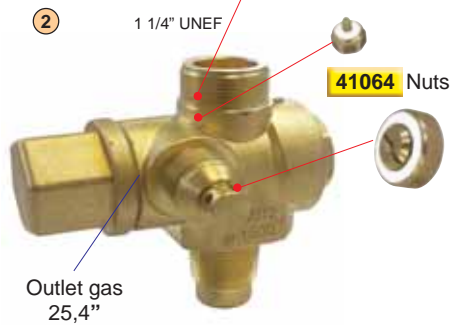
41128 3/4" npt

41129 1" npt

Intermediate copper gasket

41084 0,5 mm

41086 1 mm



VFR Nitrogen valve

40004 VFR 3/4" with manometer



Retarding valve

Is used to delay the discharge of the SYSTEM and is used primarily for boats. It is request compulsory from RINA. Once the system is activated delays the discharge for 1 minute enabling persons to abandon the area before CO2 gas flooding.

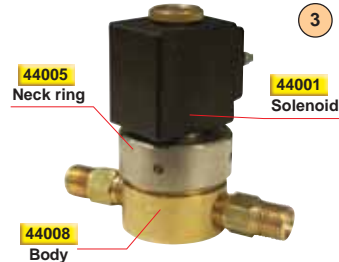


4

Actuator for rapid discharge valve type VFR

Actuator are used to active rapid discharge valve type VFR. Can be automatic, electric manual or mechanical.

44150 Complete solenoid
24 Vcc 1 A



41031 Electric actuator

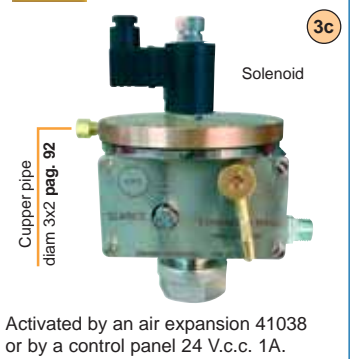


41030 Pneumatic actuator

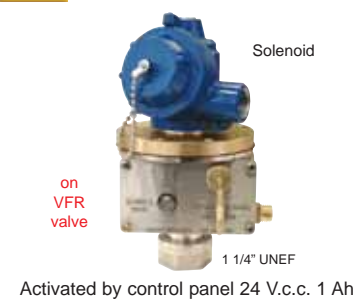
Copper pipe diam 3x2 pag. 92



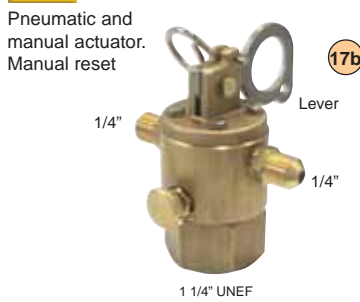
41032 Elettro pneumatic actuator



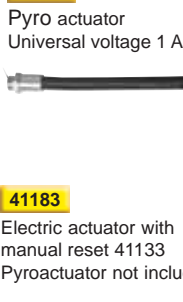
41042 EEx IIB T6 type



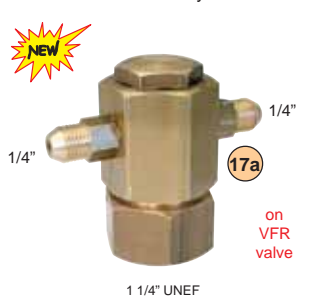
41184 Pneumatic and manual actuator



41133 Pyro actuator



41041_1 Pneumatic actuator for slave cylinder



41166 Handwheel actuator
For rapid discharge valve type VFR



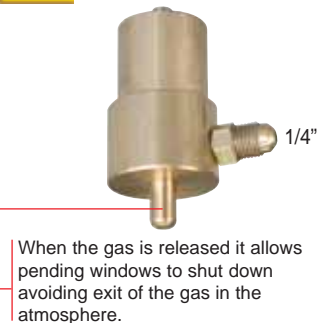
41053 Valve reducing flow 1"
Reduce the flow of master cylinder enabling longer discharge time of the slaves cylinders.



41054 Venting valve
Vent-hole and security valve for pneumatic line. It may be installed on the last actuator of the bottle battery. It's used to avoid over pressures into the pneumatic line, that in case of litle losses can actuate the others valves of the battery. Made in brass OT58 Connection: 1/4" gas female.



41048 Pneumatic release



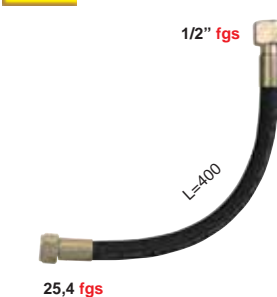
When the gas is released it allows pending windows to shut down avoiding exit of the gas in the atmosphere.

41004 Non return valve



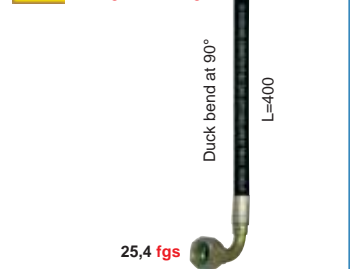
Suitable for system with one cylinder

41024 Hose L400



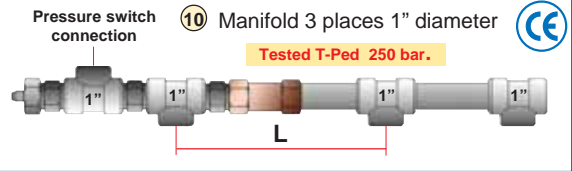
41113 25,4 fgsk x 3/4" fg

41025 25,4 fgsk x 25,4 fgs



CO2 Manifold preassembled complete with accessories

Cod.	diam.	L=mm	n° cylinder	Cod.	diam.	L=mm	n° cylinder
41055	1"	350	2	41058	1 1/2"	350	5
41056	1"	350	3	41059	1 1/2"	350	6
41057	1"	350	4	41170	2"	350	8



H.P Pipe for threaded manifold

Threaded at both sides.
Suitable for cylinder diam. 227 or diam 273 mm.
Gas CO2 / HFC.

Cod.	diam.	L=mm	n° max cylind.
41060	1"	300	4
41063	1 1/2"	300	8
41112	2"	300	12



Also available length of 6 mt.

Tee forged steel coupling



Suitable for CO2 or HFC systems

Cod.	Description
41062	1 1/2" x 1" x 1 1/2"
41051	1"
41071	2" x 1" x 2"
44049	1 1/4" x 1 1/4" x 1 1/4"
44028	1 1/4" x 1" x 1 1/4"

- 41009 Discharge horn 1/4"
- 41010 Discharge horn 1/2"



Discharge CO2 horn, made of aluminium, nozzle with hole determined by a computerized calculation.

41026 Pneumatic bell



The CO2 bell is powered only with the flow of CO2 gas when system is activated. Do not need electrical energy,

Pneumatic pressure switch

- 41014 1 contact 10 A
- 41018 2 contacts 10 A



Activated by the pressure of the CO2 gas. Can be used in all type of systems. It switch off electricity, stop fans, shut doors, remote alarms etc..

41039 Scale for cylinder

Is mounted below each cylinder for added security. In case of loss of CO2 gas weight, the switch sends a signal to the control panel for an audible or visual alarm, if loss weight is more than 10%.

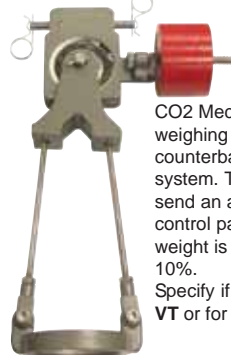


Protection cap for valve

Cod.	Description
21017	Tulip for handwheel valve, or VT.
21017_1	Tulip for handwheel valve, or VT.
41027	Neck ring + aluminium cap.
41065	Steel for handwheel valve
44086	Steel for VT valves VT



41220 CO2 Mechanical weighing scale



CO2 Mechanical weighing scale counterbalance system. The switch send an alarm to control panel if loss weight is more than 10%. Specify if for VT or for VFR valve.

Pneumatic odorizer

Due to the fact that CO2 is a colorless and odorless gas, the fragrance released the odorized allows people to detect the presence of gas in the room in case of discharge.



44200 Pneumatic odorizer 1/2"

CO2 empty cylinder

Cod.	Lt	Kg	Ø	Inlet
21329	27	20	203	3/4"
21341	40	30	227	3/4"
21342	40	30	203	3/4"
20146	67	45	273	1"
20147	60	45	229	1"



Empty cylinder RINA

Cod.	Lt	Kg	Inlet
20109	3	2	3/4"
21210	7,5	5	3/4"
20101	14	10	3/4"
21328	27	20	3/4"
21340	40	30	3/4"



Nitrogen cylinder

Cod.	Lt	Ø	Inlet
20102	2	110	3/4"
20108	3	110	3/4"
20107	7,5	140	3/4"
20114	14	170	3/4"
20127	27	203	3/4"
20140	40	227	3/4"



Charged cylinder with VFR valve

Cod.	kg	lt	inlet	H
41043	10	14	3/4"	83
41044	20	27	3/4"	110
41045	30	40	1"	130
41046	45	67	1"	157
41143	45	60	1"	180



Charged cylinder with VT valve

Cod.	kg	lt	inlet	H
41148	30	40	1"	130
41149	45	67	1"	157



Charged cylinder with handweel valve

Cod.	Lt	Kg	inlet
41119	14	10	3/4"
41066	27	20	3/4"
41067	40	30	3/4"
41118	67	45	1"



CO2 system with air expansion detector

This model allow to install a completely automatic system without energy source, electric power, neither of batteries. The operation is based on the physical principle when the temperature increase, the pressure inside expands (41038) and create a small pressure activating the pneumatic detector (41030)
 The 41037 capillary pipe diam 3x2 transmit the pressure of the air chamber to the pneumatic detector (41030).
 Installed to ceiling, if the temperature increase rapidly in terms of rate of rise detectors, the pressure is sufficient to activate the discharge.
 If the tetemperature rise slowly then the pneumatic actuator has a vent valve to avoid accidental discharge.

41038 Air expansion detector



The heat of the fire, warms the air that is expanded increasing the pressure transmitted with a thin capillary copper tube to the pneumatic control, (41030). It does not need no energy.

41030 Pneumatic actuator



Receives the signal from the expansion detector (41038) and activates the pilot cylinder.

41037 Copper pipe 3 x 2 mm



Connect the expansion detector between them to the pneumatic actuator (41030).

Adaptors for copper pipe 3x2 mm pipe and air expansion detector

41034



End connector for copper pipe thread M6x0.75

41033



Nipple threaded for copper pipe thread M6x0.75

41035



3 inlet for copper pipe thread M6x0.75

41036

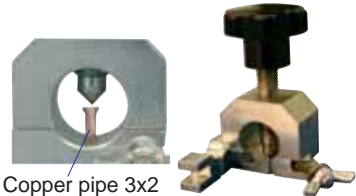


4 inlet for copper pipe thread M6x0.75

4

41040 Copper pipe flaring device

Designed to create a correct flaring of the copper pipe 3x2 to join perfectly the adaptors threaded M 6x0,75.



Copper pipe 3x2

41047 Corner pulley

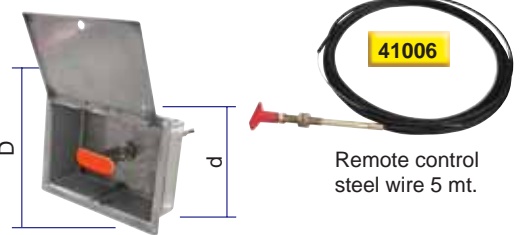


It is used to turn the steel wire used with manual remote control. Angle adjustable 45° up to 160°.

Accessories for remote actuator

23022_2 Stainless steel Silver plated, box pull cable.

These unit may hold the pull lever of the remote cable to activate manually, without electrical energy the systems Easyfire or the Firekill, or CO2 actuators.



Remote control steel wire 5 mt.

Wall brackets for multiple cylinders

41092 KIT for 1 cylinder. The code is for 1 cylinder. Multiply the price for multiple cylinder.

The profile shaped "U" with the groove allows to fix on the wall rapidly and with ease. The nut with the washer runs inside the groove allowing precise positioning of the cylinder.

Wall bracket kit is complete with:

Threaded rod

Nut with the washer

Profile shaped "U"

Available on size lenght max 3 mt

14



Wall brackets for single cylinder

Cod.	Description	
43071	x 3 lt	110 mm
43004	x 14 lt	170 mm
43004_1	x 14 lt	154 mm
43005	x 40 lt	203 mm
43003	x 27-40-60 lt	227 mm
43008	x 67 lt	273 mm
43007	x 27/40 lt	203 mm
43006	x 80/125 lt	360 mm



Use to fix a single cylinder on the wall.

For a system with more than 1 cylinder use the kit 41092

CO2 Selector valve

Selector valve



24 Vcc
0.1 Ah

Available 3", 4" e 6"

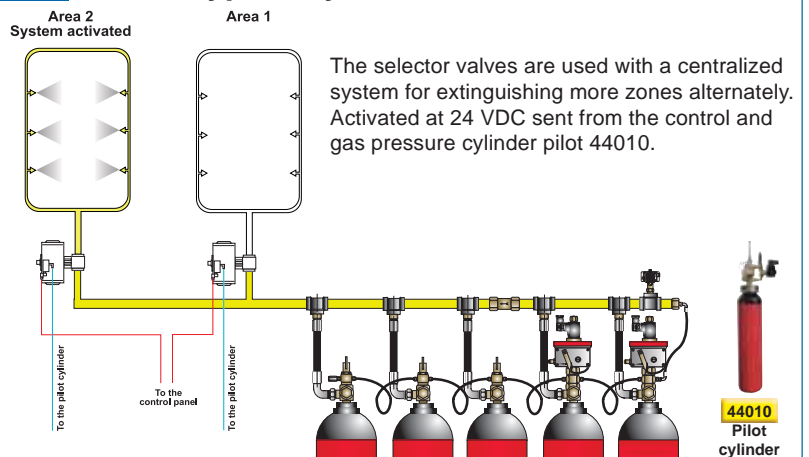
Operating pressure : 300 bar



Cod.	Diameter
44018	2"
44021	1 1/2"
44022	1 1/4"

Cod.	Diameter
41073	1"
41074	1 1/2"
41075	2"
41076	2 1/2"

Typical system with selector valve



CO2 Hose reel

41114 Hose reel mt 20

The reel can be wall or floor fixed. Includes 20 mt high pressure hose, high pressure interception valve and high efficiency and high flow snow horn, 2 mt hose to connect to the one or more CO2 cylinders bank. Typical use in manual applications such as plate rolling mill, painting booths, oils temper process.....

(Cylinder co2 not included)



CO2 hose reel can be fixed on the wall or on the floor.

On request: cabinet



Gas liquid level indicator, CO2, HFC, FM200, Novec

98059 Ultrasonic liquid level

The 98059 is an ultrasound apparatus used to measure the level of liquid compressed gases into bottles of fire fighting systems. Easy to use and transportable. For CO2 cylinders is suggested to be used with temperature below 25°C.



Ultrasonic probe



RINA Certificate



Battery charge connector

Control panel



Complete with bags, instruction of use and warranty



98048 Digital liquid level indicator for CO2, HALON, NOVEC, FM200

The PORTALEVEL is a liquid level indicator for level location and contents verification of all gaseous fire extinguishants stored in liquid state in cylinders. The Portalevel is designed for use on CO2, Halon, FM200™ and other liquid Halon replacements stored in all commonly used cylinder types. It is not designed to work on fire extinguishants that are not stored as liquid. Good result lower than 25°C

**RINA
APPROVED**

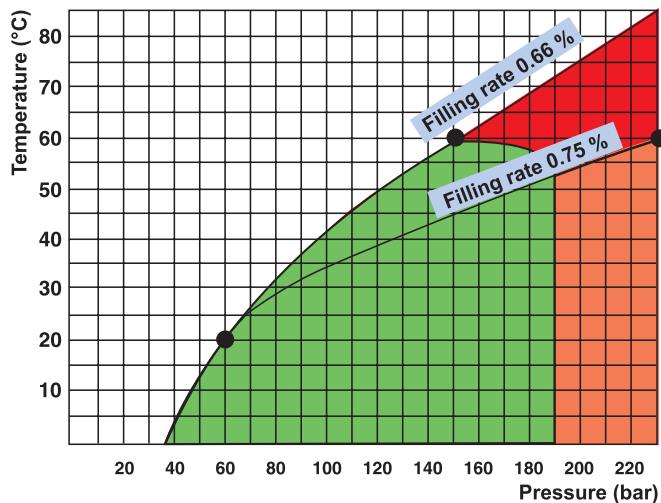


Optional accessories

98049 Extension rod for digital liquid level indicator



Diagram of the pressure variation in function of the temperature and the percentage of fill density in the CO2 cylinder.



The pressure in the cylinder charged with CO2 changes in function with the fill density and the temperature. The graphic show how 1 liter cylinder charged with 750 grams of gas at 20 °C has a pressure of 57 bar approximately. If the temperature of the cylinder reach at 60 °C the pressure increases approximately 4 times at 235 bar taking part the safety valve if set (normally between 170 and 200 bar) or carrying the cylinder to a dangerous pressures. In tropical and hot countries, It is advisable not to exceed the charge 2/3 with totals capacity that is 667 grams per liter.

Avoid exposure under direct sun x-rays that risk to pass a temperature of 60°C.

SPRINKLER SYSTEM UL. LISTED - "CE mark also available"



The sprinkler is an automatic thermo sensible valve. A small glass bulb encloses a liquid sensible to the temperature that in case of fire it expands, breaks the bulb and leaves a rain water on the surface. A single sprinkler it protects "approximately 10 mq, if placed at 3 meters height". In case the fire extends, others sprinkler take part exclusively in the zone assaulted from the fire. For the greater part of the risks the standard 3 bar waterworks pressure is sufficient, other times need to install an electric pump, and an automatic power pumps in case the demanded pressure is insufficient or there is risk of electric power lack. The sprinkler systems are most diffused fire installation to protect, supermarkets, hotel, garages, etc. The bulb is a fast response, thin just 5 millimetres. Strong reductions on the insurance policy, render a sprinkler system an economic and amortizable investment in few years. Our tech department can assist in the engineering, computer pipe dimensioning, installation and final test complying with the regulation in force. **This page shows the main, all range available in a separate catalogue**

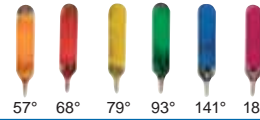
Sprinkler pendent during the discharge



PROTECTOR SPRINKLER



Color of the bulb in degrees centigrade

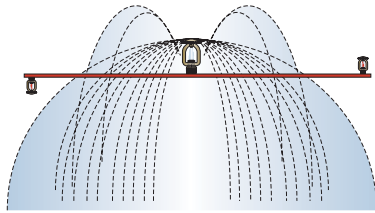


National Fire Protection Association
The authority on fire, electrical, and building safety

4

Conventional

Conventional sprinkler direct the jet also on the bearing structures of the ceiling and assure a good cooling of beams and pillar. The deflector can be mounted on the one or the other side.

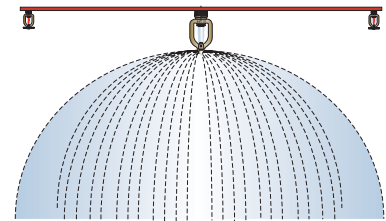


Cod.	Description	K 80
45210	1/2" Chromed export 68°C	
45111	1/2" export 68°C	
45113	1/2" LPC 68°C	
45117	1/2" LPC - FM 68°C	
45110	1/2" export 141°C	

On request other temperature

Pendent

The deflector can be mounted only on the bottom side.



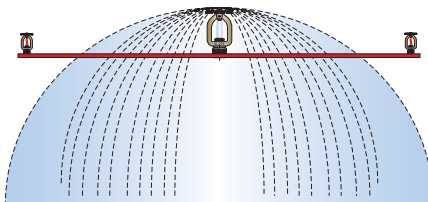
Cod.	Description
45112	1/2" UL listed 68°C K80
45220	3/4" UL listed 68°C K112



On request other temperature

Upright

The deflector can be mounted only on the side up position.



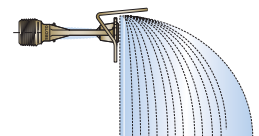
Cod.	Description
45114	1/2" UL listed 68°C K80
45221	3/4" UL listed 68°C K112



On request other temperature

Sidewall

Sidewal sprinklers. Used near walls or bookcase.

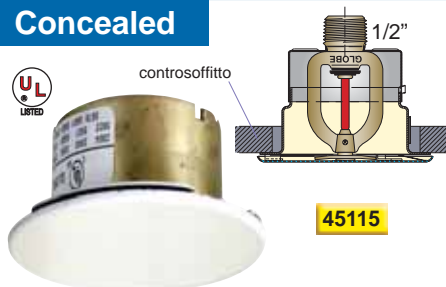


45116	1/2" UL listed 68°C
	3/4" UL listed 68°C



On request other temperature

Concealed



45115

Installed indoor of false ceilings and are invisible for aesthetic reasons. The retainer is adjustable for imperfections of false ceiling and in case of fire come down allowing the flow rain.

Connector flex for sprinkler

Connector flex for sprinkler systems Stainless steel Aisi 316L, available from 1/2" to 3/4" different lenght from 700 to 2200.

- Complete with:
- 1 Stainless steel AISI 316L / 304 flex
 - 2 Nut 2 Brass
 - 3 Nylon gasket
 - 4 Silicon Gasket
 - 5 Galvanized steel coupling
 - 6 Galvanized steel Nipples
 - 7 Bracket type A
 - 8 Bracket type B
 - 9 Galvanized steel bar



45046



Technical Characteristics

Work pressure 200 PSI
Test pressure 1000 PSI
Working temperature 120 °C
Inlet connection 1" M ISO
Outlet connection 1/2" F NPT
Minimum bending 3" (76 mm)

Technical data are subject to modification for improvements without prior notice

SPRINKLER WET VALVE PREASSEMBLED UL. FM.



Preassembled UL.FM		
Cod.	Diam	DN
45061	3"	80
45062	4"	100
45063	6"	150
45064	8"	200

Preassembled wet valve U.L. 4"
cod. 45062 complete with:
 Body valve 45814, preassembled trim 45043, Retard chamber 45012, shipped in packing wood box.
Optional separately Gate valve 45005, Pressure switch 45008, Water motor gong 45011

This valve must be used in areas with no risk of freezing.
 The pipe are always full of water.
 In case of fire the automatic sprinkler open, the hydraulic alarm bell set in action.
 The pressure switch active the pumps and other equipment.

Wet body valve UL. FM.		
Cod.	Diam	DN
45832	3"	80
45814	4"	100
45816	6"	150
45818	8"	200

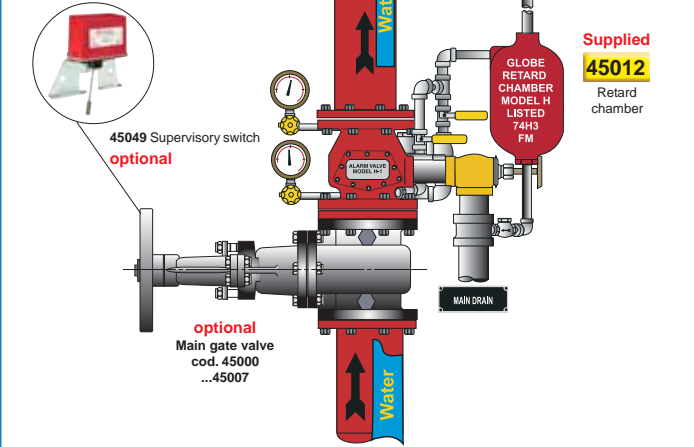


Body valve made in cast iron flanged UL listed

Trim wet valve	
Cod.	Description
45043	Trim universal 3" - 8"

45043 Trim wet valve UL

Preassembled trim rim complete with:
 2 manometers, valve and ball valve, for drain test, thread pipe and couplings.
 All inclusive in the preassembled.



SPRINKLER DRY VALVE PREASSEMBLED U.L.

Preassembled UL.FM		
Cod.	Diam	DN
45065	4"	100
45066	6"	150
45067	8"	200

Preassembled dry valve U.L. 4"
cod. 45065 complete with:
 Body valve 45914, preassembled trim 45016, accelerator 45009, trim accelerator preassembled, 45010 shipped in packing wood box.
Optional separately Gate valve 45005, Pressure switch 45008, Water motor gong 45011

This valve is particularly recommended in areas or plants where the danger of freezing is high and therefore the system must be pressurized with compressed air.

The system can also be equipped with an accelerator (optional) which release the air very quickly in case of fire, even if only one single sprinkler head has opened.

Dry body valve U.L.		
Cod.	Diam	DN
45914	4"	100
45916	6"	150
optional	8"	200



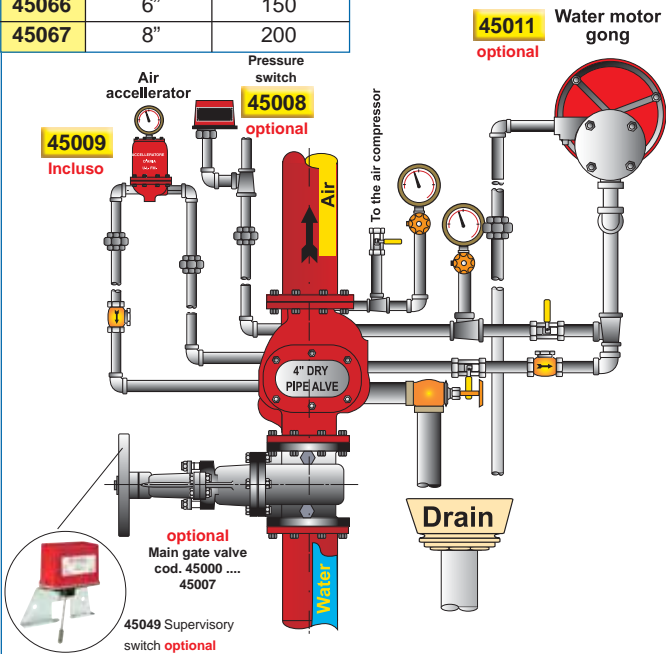
Body valve made in cast iron flanged UL listed

Trim for body valve	
Cod.	Description
45016	Standard Trim 4" - 8"
45009	Air accelerator+Antiflood
45010	Accelerator Trim U.L.

45016 Trim body valve UL-FM



Preassembled trim rim complete with:
 2 manometers, valve and ball valve, for drain test, thread pipe and couplings.
 All inclusive in the preassembled.

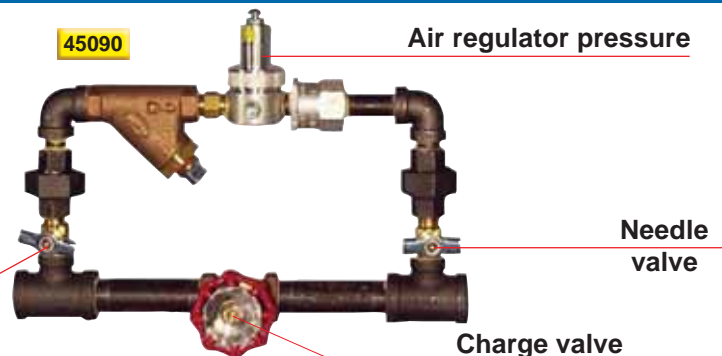


MAINTENANCE AIR DEVICE FOR DRY CHECK VALVE

The model F and G Air Maintenance Devices are designed to provide direct filling of a Dry Pipe Sprinkler System to the required air pressure and also maintain, through a bypass arrangement, the correct air pressure in the system at all times.

The system pressure desired may be obtained by adjusting the air pressure regulator. (Refer to the Dry Pipe Valve literature for the proper air pressure required.)

The model F is used when a sprinkler system air compressor is the air source. The air pressure switch is used to control the air compressor motor and is field adjustable to the desired system air pressure. The model G is normally used when the compressed air is supplied by the owner of the building.



SPRINKLER DELUGE VALVE UL Listed



Preassembled U.L.

Cod.	Diam	DN
45071	2 1/2"	65
45068	3"	80
45069	4"	100
45070	6"	150
Optional	8"	200

45008

Pressure switch

45011

optional Water motor gong

"DELUGE" is a pipe network of open sprinklers, which protect a determined area under fire risk. The valve once activated through the fire detectors it open and the area is simultaneously flooded. DELUGE system is used in areas where the risk of fire is high and cannot be controlled with bulb sprinkler which open one by one on demand of increasing the fire.

One single open sprinkler misure an area coverage of approx 9 sqm. Pipe and flow calculations are performed and computerized with an appropriate software. DELUGE system requires usually large quantity of water. Being empty, galvanized pipes and fittings must be used.



Preassembled deluge valve U.L. 4" cod. 45069 complete with: Body valve 46104, preassembled trim 46005, shipped in packing wood box.

Optional separately

Gate valve 45005, pressure switch 45008, Water motor gong 45011, Tamper switches 45049

Body valve U.L.

Cod.	Diam	DN
46003	2 1/2"	70
46125	3"	80
46104	4"	100
46106	6"	150
46107	8"	200



Cast iron flanged body valve UL - FM.

Trim for body valve

Cod.	Description
46000	Universal from 2 1/2 to 6"

46000 Trim for body valve UL - FM



Trim and necessary accessories to complete a body valve: manometers, test and drain gate and ball valves, gate, check valve, pipes, coupling.



4" front view



4" rear view



2" 1/2 view

Flow switch UL listed



Cod.	Diameter
45035	2"
45036	2 1/2"
45037	3"
45038	4"
45039	6"

The waterflow detector is a device that slides in the pipe and close an electrical contact useful for alarms.

Air accelerator UL listed

45009



The air accelerator is used in the dry systems. It accelerate the air exhausting quickly from the pipes, allowing water to arrive timely to the sprinkler activated by the fire.

Retarding chamber UL listed

45012

UL listed

45031

abs



It serves primarily as an hydraulic time delay to prevent most false alarms associated with fluctuation of water supply pressure. In situation where excessive water pressure surges occur, the retard chamber is needed.

Water motor gong UL listed



45011

UL

It produce a strong alarm sound when a sprinkler is activated by a fire. It no need any electrical energy. The sound continue as long as the water flows through the sprinkler network pipes.

Pressure switch UL listed



45008

Pressure switch N.C. and N.O. contacts support 10A. When water flows through the pipes, gives alarm, stop fan and other services.

Tamper switches

Supervisor switch is used on the main gate valve, that must be kept always open.

In case of tampering of the valve it marks an alarm to the control panel.

Contact Max 10A UL listed

45049



Sprinkler cage

45041

pendent



The sprinkler headguard are used to protect the bulb if it is at risk of accidental impact.

Wall escutcheons

45060

adjustable
20 mm



45047 3/4"



Large choice plastic or chrome.

Sprinkler head cabinet UL - FM

Cod.	N° Pcs	Ø
48003	12	1/2"
48004	24	1/2"
48005	12	3/4"
48006	24	3/4"
48007	36	1/2"
48008	36	3/4"



head cabinet empty

48002 x 12 **48001** x 24

45109

Sprinkler wrench



UL. Listed Gate Valve

UL listed & FM

Cod.	Diam.	DN
45004	3"	80
45005	4"	100
45006	6"	150
45007	8"	200



PN10 ASA 150

Cod.	Diam.	DN
45000	3"	80
45001	4"	100
45002	6"	150
45003	8"	200

UL. Butterfly wafer valve

PN10 ASA 150

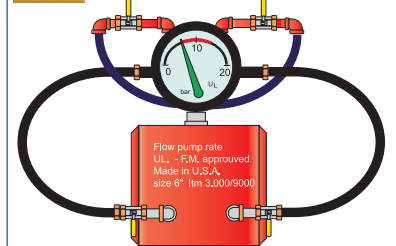


Cod.	Diam.	DN
45080	3"	80
45081	4"	100
45082	6"	150
45083	8"	200

UL. FM Flow meter

4" DN 100 from 800 to 3.200 Lt/min mod K 450
6" DN 150 from 2.300 to 9.000 Lt/min mod K 1250

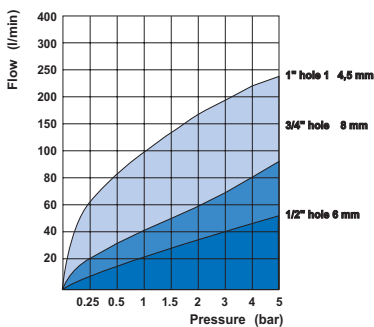
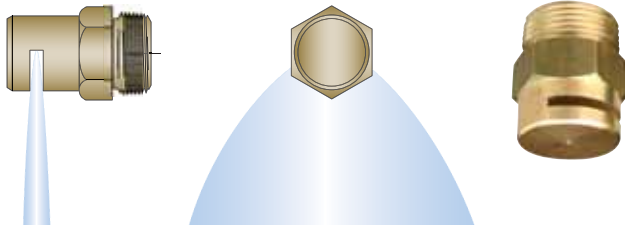
45048



Flowmeter FM - UL approved, for water systems. Soldering type Ø 6"

Water curtain nozzle

Cod.	diam	Ltm	Angle
45050	1/2"	40	120°
45051	3/4"	70	120°
45052	1"	235	120°

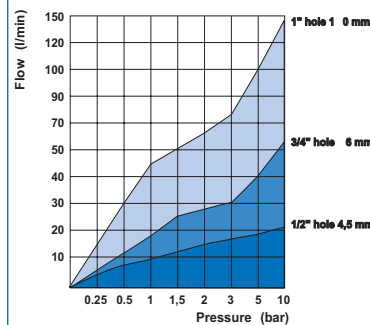
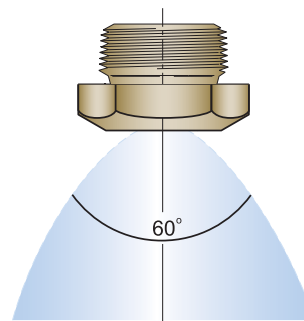


Water curtain nozzle provides a jet at 180° relatively flat. They are generally used to provide a water curtain over a glass windows or apertures to prevent fire/heat penetration, to cool oil tanks and steel columns to give more resistance to the structures.

Structural Resistance

Spray nozzle

Cod.	diam	Ltm	Angle
45053	1/2"	18	60°
45054	3/4"	30	60°
45055	1"	80	60°



Spray nozzle are generally used in deluge systems. They provide 60° spray jet, composed by relatively fine drops. Used in industries for multiple purposes and in fire fightings specially to protect transformers and oil containers. The fine drops are not conductive to electricity. **Available in different diameters, flow and angle jet.**

Air compressor for dry system

45034

Supplied with check valve, gate valve for connection to the dry pipe valve.

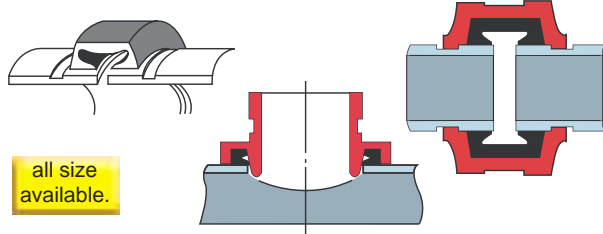


Used for filling and pressure maintenance of dry valves. Automatic 100 lt max 8 bar

Our technical department is available for advices comprehensive planning, certifications, installations in full compliance with norms requirements.

Grooved coupling U.L. F.M. (available separate complete detailed catalogue)

The grooved end method provides piping systems, the most versatile, economical and reliable type of connection. The following table shows the advantages of grooved products compared to other pipe joint methods. Both rigid and flexible couplings are available for the grooved piping system. With the housing held into the groove, the rigid coupling is designed to achieve straight runs of pipe without any flex at the joint, whilst the flexible coupling accommodates expansion / contraction and deflection.



all size available.

Comparative Advantages	Threaded	Flanged	Welded	Grooved
Allows angular deflection-misalignment				x
Expansion, Contraction or, no need for expansion joint				x
Reclaimable, no need for union		x		x
Allows fast connection with valves				x
Allows rotation of pipe for alignment		x		x
No Special skills required	x			x
No welding slags	x			x
No weakening of pipe at joints		x	x	x
No fire hazard during installation	x	x		x
Quick installation	x			x
Easy to maintain				x
Allows prefabrication	x	x		x
Low installation cost	x			x

45700_2 Rigid coupling



45701_2 Flexible coupling



45703_2 Heavy duty flexible coupling



45704_53 Grooved mechanical tee



Available from 1 1/4" to 6"

45705_53 Mechanical cross grooved



45706_30 Strap tee



45707_52 Mechanical cross threaded grooved



45708_53 Reducing tee



45709_52 Threaded reducing tee



45710_5 Equal cross



45711 Reducing cross



45712 Flange adaptor



45713_5 Hinged flanged adaptor



45714_5 Cap



45715_30 End-line reducing elbow



45716_43 Reducing coupling



45719_52 Threaded mechanical tee



45720_2 90° elbow



45721_2 45° elbow



45722_2 22.5° elbow



45723_2 Grooved equal tee



45724 Grooved concentric reducer



45725 Threaded grooved reducer



45726 Grooved eccentric reducer



45727 Grooved flanged



45728_5 Cap with hole



PIPE MACHINERY

Grooving machine type 2"-12"

45700_1

This machine is used to chase of zinc-plated pipes, seamless pipes, stainless steel pipes and plastic-lined pipes of various sizes ranging from 2" to 12".

CAPACITY

Pipe Diameter (mm) : 2"-12"
 Max. Wall-thickness (mm) : 10
 Output RPM (r/min) : 23



Single-phase Motor

Voltage (V) : 110-240
 Power (W) : 1100
 Frequency (Hz) : 50-60
 Net weight (Kg) : 129
 Dimension (mm) : 920x460x960

Three-phase Motor

Voltage (V) : 110-460
 Power (W) : 750
 Frequency (Hz) : 50-60
 Net weight (Kg) : 123
 Dimension (mm) : 860x460x860

Grooving machine type 1"-4"

45700

This machine is used to chase of zinc-plated pipes, seamless pipes, stainless steel pipes and plastic-lined pipes of various sizes ranging from 1" to 4".

CAPACITY

Pipe Diameter (mm) : 1"-4"
 Max. Wall-thickness (mm) : 5
 Output RPM (r/min) : 23



Single-phase Motor

Voltage (V) : 110-240
 Power (W) : 750
 Frequency (Hz) : 50-60
 Net weight (Kg) : 98
 Dimension (mm) : 690x580x1080

Three-phase Motor

Voltage (V) : 110-460
 Power (W) : 550
 Frequency (Hz) : 50-60
 Net weight (Kg) : 92
 Dimension (mm) : 650x580x1080

Pipe cutting machine

44699

The whole construction allows quick change of cutting disc.
 The cutting disc while using supporting roller on cam holder: 2 1/2" - 6".
 The cutting disc while using supporting roller on main unit: 8" - 12".

CAPACITY

Pipe Diameter (mm) : 2 1/2"-12"
 Max. Wall-thickness (mm) : 10
 Output RPM (r/min) : 23



Single-phase Motor

Voltage (V) : 110-240
 Power (W) : 750
 Frequency (Hz) : 50-60
 Net weight (Kg) : 120
 Dimension (mm) : 660x710x960

Three-phase Motor

Voltage (V) : 110-460
 Power (W) : 750
 Frequency (Hz) : 50-60
 Net weight (Kg) : 120
 Dimension (mm) : 660x710x960

Hole cutting machine

44699_1

Stable feeding mechanism with the support of dovetail guide.
 Three-phase motor, contributes to high efficiency.

CAPACITY

Max. tapping Diameter (mm) : 4"
 Max. tapping Wall-thickness (mm) : 10
 RPM (r/min) : 120



Single-phase Motor

Voltage (V) : 110-240
 Power (W) : 550
 Frequency (Hz) : 50-60
 Net weight (Kg) : 24
 Dimension (mm) : 340x340x620

Three-phase Motor

Voltage (V) : 110-460
 Power (W) : 550
 Frequency (Hz) : 50-60
 Net weight (Kg) : 24
 Dimension (mm) : 340x340x620

Technical data are subject to modification for improvements without prior notice

Fire systems EN 15004 Inerte gas 100% ecologico.

NYTRARGON®



IT IS OZONE FRIENDLY

300 bar!



Used for "total flooding" application. It is a mixture of gases normally present in the air, 50% "A" Argon and 50% "N2" Nitrogen. It is classified in the international standards with the trade name Ig-55. *Being gases normally present in the Earth Atmosphere, there will never be restrictions on their use.* In fact the impact on pollution is zero. Dimensioning is realized using NFPA 2001, or EN 15004, requesting respectively minimum concentrations of 38% - 42%.

NYTRARGON® does not cause thermal shocks to computers.

The mix of pure gases does not stratify, allowing an optimal visibility during the discharge and uniform saturation in the protected area.

NYTRARGON® has zero environmental impact (ALT, GWP, and ODP=zero)

NYTRARGON® extinguishes the fire reducing the oxygen concentration in the protected volume; it is, therefore, necessary to ensure good tightening of doors and windows before discharge. For this reason after installation is highly recommended to perform the **Door Fan Test**, which discover possible leakages in the enclosures. It is efficient against all the types of fire, and is particularly used to protect great values, where others extinguishing like water, powder, or foam cannot be used because they would cause damages.

Typical uses are computer rooms, museums, telecommunication centres, banks, etc.... Normally used in closed areas, it is calculated to reduce the percentage of oxygen at 12-13% arresting the combustion after the discharge in approximately 60 sec. The system previews an acoustic/optical pre-alarm before the discharge. Presence of people in the area during and after the discharge is not a danger. They can breathe for a long time without danger, and the visibility is not reduced. No toxic gases are generated from the combustion in contact with NYTRARGON®.

Accepted from standards NFPA and EPA. **It demands an accurate computer calculation in order to avoid that concentrations lower than 12% may cause an excessive breathing problems.**

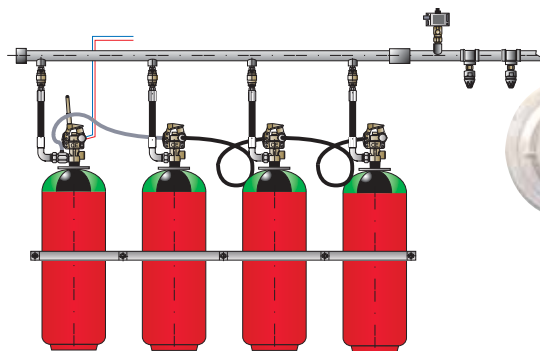
47039 Control panel EN 54-2/4 EN12094-1



For system cross zone with cross zone detector. EN 54-2/4 EN 12094-1 Certified.

Professional

NYTRARGON® it is a trade mark from a.b.s. S.r.l.



NFPA 2001 Table

Characteristics

Chemical composition

GWP, ODP, ALT

Dielectric rigidity at 1 atm-mmHg at +25°C (N2=1,0) 1,01

Design concentration according to NFPA or ISO 14250-14

Protection area for a cylinder 80/140 Lt..... a 300 bar **M³** 43 / 75

Cylinder capacity.....80/140 LT charged at 300 bar

Nytrargon quantity in the cylinder 80/140 Lt at 300 bar Nmc 22,1 / 39

System design.....Computerized calculation Huges or VDS according to NFPA

International standard..... NFPA IG - 55 - ISO 14520-14

Application (CED - warehouse - archive)

Gases

Nitrogen 50%+ Argon 50% purity 99,99%

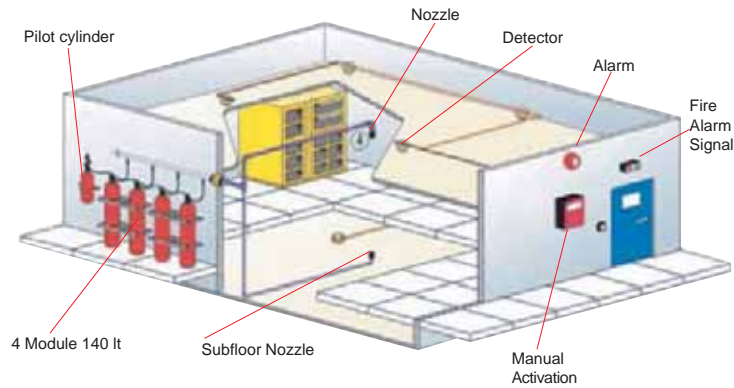
0 (zero)

Also with presence of people in a room

The percentage of OXYGEN at 12/13% allows a sufficient respiration

Application Area

Control rooms, Computer rooms, Telecommunication facilities, Libraries, Museums.



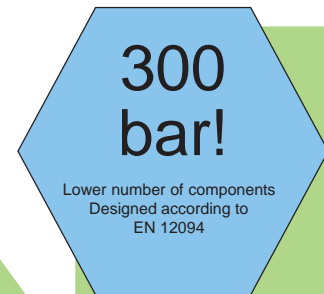
Example of total flooding application ISO 14250-14:2005 (E).

Design concentration 40,3 % for a class A fire
(table 4 of the current norm) at 20°C, 0,729 Kg/mc.

One cylinder protection examples:

Code	Cylinder Capacity lt	Fill pressure bar	Protection room mc	Charge kg	mc gas in the cylinder
44080	80	200	30,5	22.22	15.73
44084	80	300	42,8	31.18	22.08
44140	140	200	53,6	39.04	27.65
44145	140	300	75,5	55	38.95

For more information contact our technical office.



Advantages and benefits

- *It dose not leave residual*
 - *Safe for the people*
 - *Low cost of recharge*
- *Electrically not conductive*
- *Environmental respect with ODP , ALT, e GWP = 0*
- *Advantage to place the cylinder at distance from protected room*

47007



ECOLOGIC 100%



ALT atmosphere life time
GWP global warming potential
ODP ozone depletion potential
=Zero

Nitrogen and argon are gases normally present in air, pure, clean and dielectric; do not react when in direct contact with flames and do not produce harmful products, non corrosive and return in the atmosphere without damage to the environment.

NYTRARGON® safeguards people and really

protects delicate materials.

NYTRARGON® system uses large-capacity, 80 and 140 liters , cylinders, tested and approved CE TPED and they need to be reinspection every ten year.

The initial high pressure on the manifold through a special "ORIFICE" is reduced to 40-60 bar, enabling remarkable cost cosaving on the installation pipes. Cylinders can be placed at great distance from the enclosure and, with the use of directional valves, it guarantees flexibility and convenience to protect with one bank of cylinders multiple areas.

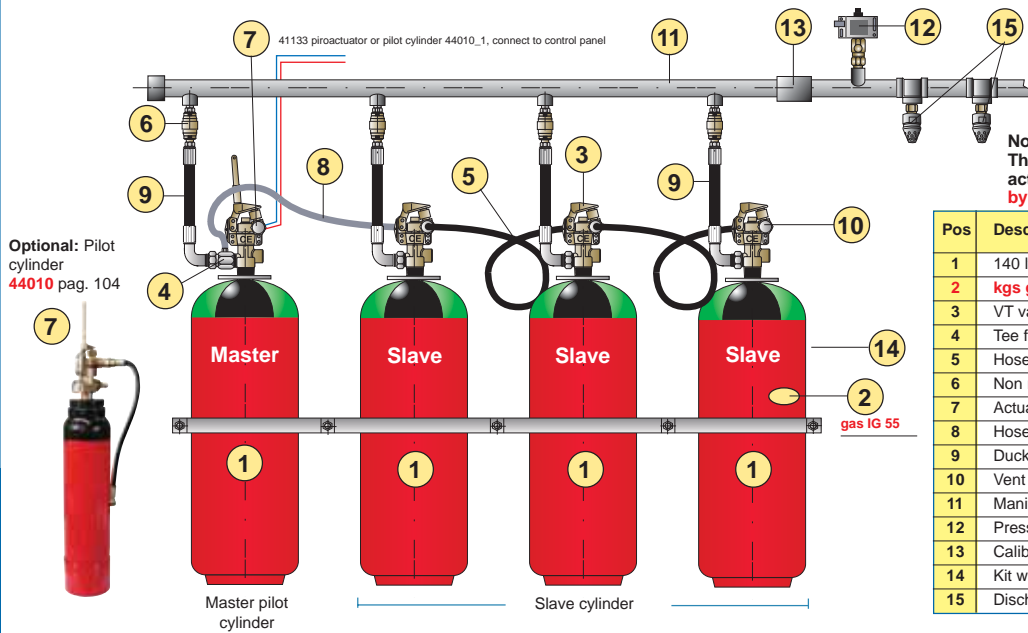
Engineering, design, computerized software calculation, installation, service.

Inert system gas with Nytrargon® IG 55 - IG 01 Argon, IG 100 Nitrogen 200 or 300 bar

Manifold is made with pipe SCH 160 with fittings ASA 6000, while after the "calibrated orifice" are SCH 40 and fittings ASA 3000. Manifold is tested at 700 bar and certified according to PED.

The pilot cylinder, activated by the control panel or manually with the lever, through the hoses allows to simultaneously activate all the other slave cylinders.

Separate pilot cylinder is needed to open selector valves, used to switch the discharge in different areas to be protected with a single bank of cylinders.



Example calculation:

CED room dimension 16x10x3 = 480 Mc
Number of cylinder at 300 bar: 5 x 140 Lt / each

Note:
The VT valve at 300 bar is complete with pneumatic actuation. Pipe and nozzles diameters determined by computerized calculation.

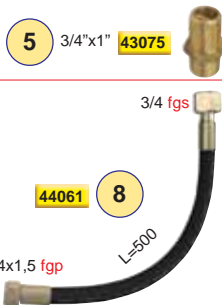
Pos	Description	Cod.	N°
1	140 Lt Module charged at 300 bar	44145	5
2	kgs gas IG 55 included in 5 module		275
3	VT valve at 300 bar	44082	5
4	Tee for pilot cylinder	41164	1
5	Hose between cylinder H.P.	44014	3
6	Non return valve	43075	5
7	Actuator 41133 / 44150 / 44010	44010	1
8	Hose pilot cylinder H.P.	44015	1
9	Duck bend H.P.	44061	5
10	Vent valve	41054	1
11	Manifold 5 place H.P. 1 1/4"	44046	1
12	Pressure switch	41014	1
13	Calibrated orifice	44006	1
14	Kit wall brackets 5 places 41092	41092	5
15	Discharge nozzle	49008	..

4

Cylinder module at 200 or 300 bar



1 Module 140 Lt complete with:
- kg 55 / m³ 38,95 gas
- Non return valve
- Duck bend

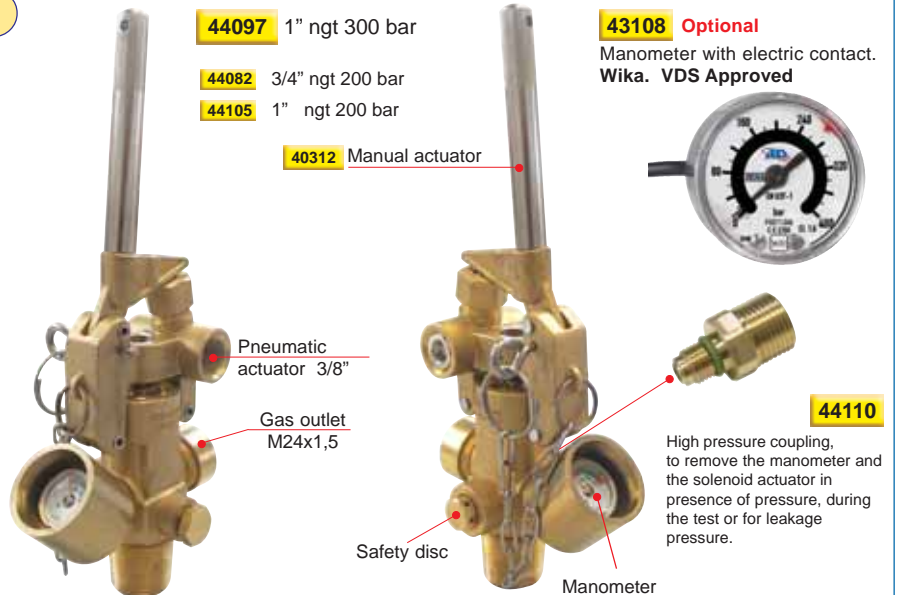


cod.	lt	diam mm	h cm	bar	m3 protected
44079	80	267	210	200	36
44139	140	358	200	200	55
44083	80	267	210	300	50
44144	140	358	200	300	85

VT valve at 200 or 300 bar

VT valve complete with pneumatic actuator, manometer, safety disc. Can be activated with a pyro actuator (41133), by hand with lever (43012), pilot cylinder (44010), solenoid actuator (44150).

3



Wall bracket kit

41092 KIT for 1 cylinder. The code is for 1 cylinder. Multiply the price for multiple cylinder.

The profile shaped "U" with the groove allows to fix on the wall rapidly and with ease. The nut with the washer runs inside the groove allowing precise positioning of the cylinder.

Wall bracket kit is complete with:

Threaded rod

Nut with the washer

Profile shaped "U"

Available on different size max lenght 3 mt



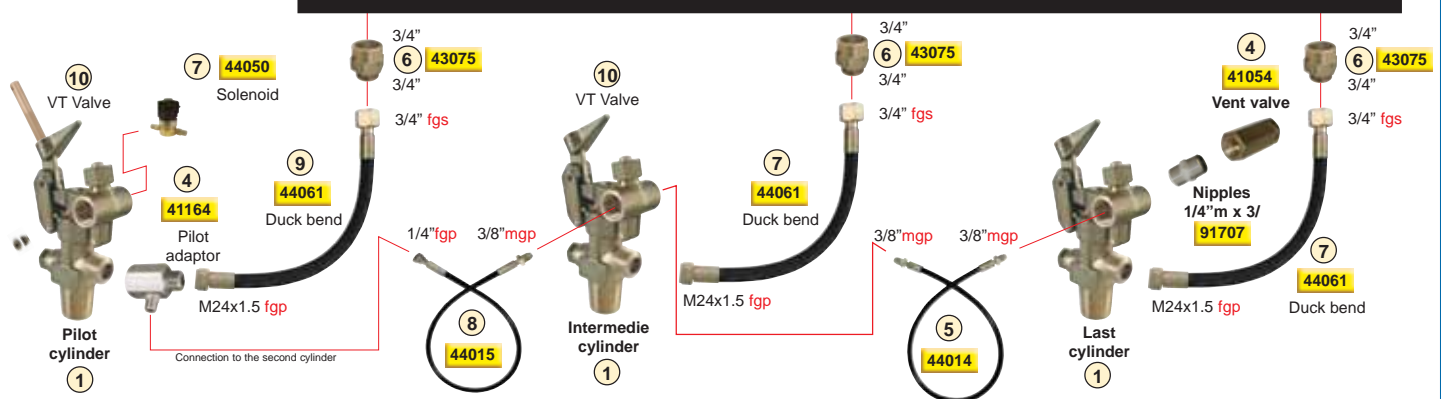
Pressure switch

41014 1 contact 10 A
41018 2 contacts 10 A

The pressure switch, placed on the discharge manifold reveals. One contact NA and NC. The passage of Nytrargon® sends alarms sounds, disconnects electrical circuit, stops fan ventilation, shut the doors, etc...



Hose and Duck bend for manifold



m = male f = female g = swivel k = at 90° o = ogive seat p = plane seat s = flaret seat

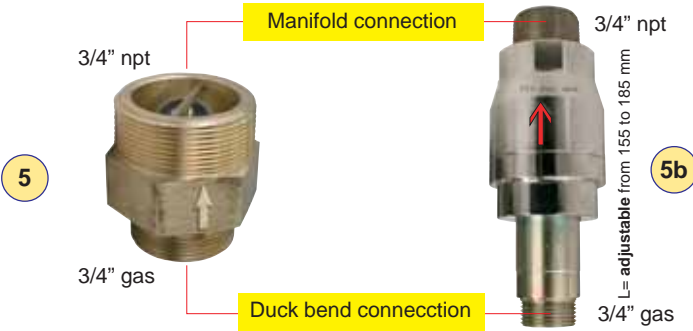
Non return valve

Prevents the return of the gas into cylinder.

43075 3/4" x 3/4" npt

Standard fix type

Optional telescopic

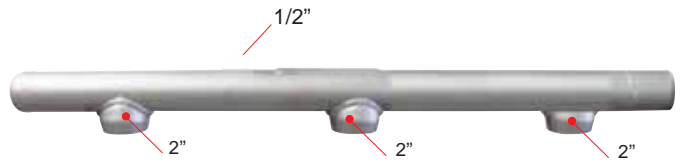


Operating pressure: 300 bar

Manifold preassembled tested at 300 bar

H.P. pipe type XXS diam. 2" and welded couplings. Tested and certified CE PED 97/23. Test 550 bar

10



Cod.	diam	Place
44043	1"	2
44045	1"	4
44046	1 1/4"	5
44047	1 1/4"	6

Cod.	diam	Place
44048	1 1/4"	7
44062	2"	8
44062_1	2"	10
44062_12	2"	12

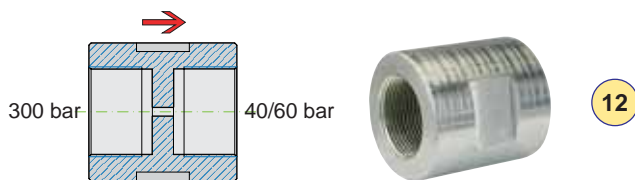
Calibrated orifice for manifold

Necessary to reduce gas pressure during the discharge from manifold to distribution lines, from 300 bar of the cylinder to 40 ÷ 60 bar after the orifice. Orifice size is determined by computer calculation.

44040 Diameter 3/4"

44006 Diameter 1 1/4"

44017 Diameter 2"



Discharge nozzle

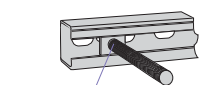
In aluminium, supplied with a calibrated hole according to computing calculation. Flaps at 90° used far from walls.



Flaps at 90° or 180°

Wall brackets for multiple cylinders

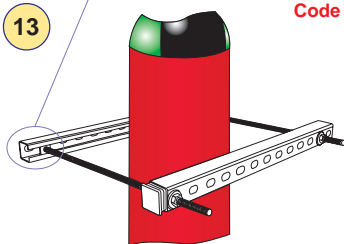
Detail to the wall, sliding nut and threaded rod.



41092 Wall bracket for 1 cylinder

This code 41092 includes:
1 Section bar, customised
2 Threaded rods
3 Nuts with washers.

Code 41092 is for 1 cylinder only.



The profile shaped "U" with the groove allows to fix on the wall rapidly and with ease. The nut with the washer runs inside the groove allowing precise positioning of the cylinder.

Pneumatic odorizer

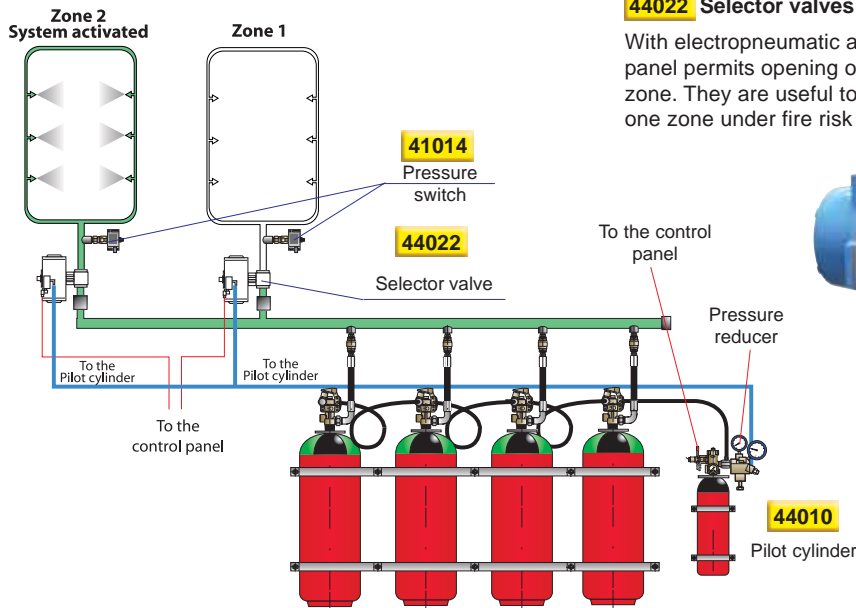
Device which is installed in the discharge manifold and that releasing a characteristic smell when the system is activated. Due to the fact that CO2 is a colorless and odorless gas, the fragrance released the odorized allows people to detect the presence of gas in the room in case of discharge.

44200 Pneumatic odorizer 1/2"



Material Brass EN 12135:98tab4
Working pressure 57 bar at 20°C
Connection 1/2" gas conic
Odorizer charge 10 cm3
Max kg of CO2 for odorizer 1000 kg

Typical system with high pressure selector valve



44022 Selector valves

With electropneumatic actuator at 24 Vdc, CE marked. The system control panel permits opening of alarmed fire zone and discharge the gas in single zone. They are useful to protect with a single bank of cylinders more than one zone under fire risk enabling a considerable saving.



Cod.	Diameter
44022	1 1/4"
44021	1 1/2"
44018	2"
44023	2 1/2"
44093	3"
44068	4"

4

It 3 Pilot cylinder complete

44010_1

Lt 3, with solenoid max 50 bar 24 VDC 1A

44010

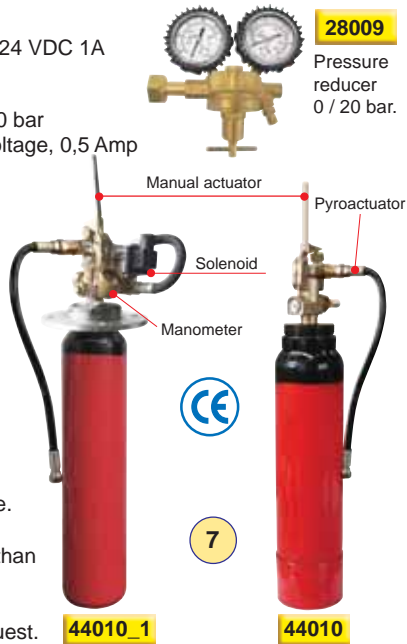
Lt 3, with pyroactuator max 200 bar
Pyroactuator uses universal voltage, 0,5 Amp

It is used to actuate a bank of multiple cylinders.

It is equipped with pressure gauge, hand manual actuator lever, delivery hose 1.5 mt non return valve.

Solenoid valve may be on request explosion proof. The standard pilot cylinder of 3 Lt is sufficient to actuate a bank of 12 cylinders, when the cylinders are located very close.

When it need to actuate more than 12 cylinders, or system with selector valves, then a bigger capacity of pilot cylinder is request.



Pyroactuator

41133 Pyroactuator

Universal voltage, 0,6 A.

Gun powder creates a high pressure enabling valve activation

Includes protective tube; threaded both sides 1/4"m x 1/4"m

Safer than solenoid which instead need critical voltage and current.



Pilot solenoid valve

Suitable for VT valve.

Complete with calibrated pipe.

44150 Complete solenoid 24 Vcc 1 A



Door Fan Test

It is an essential test according to NFPA and ISO 14520.

The fan is fitted in a door and blows into and out of the room creating a temporary pressure different not less than 25 Pa (in kg/m3).

By measuring the air flow through the fan and its effect on the air pressure in the home or office, the blower door system measures the air tightness of the entire building envelope. Additional infrared camera may be used to determine the air infiltration points to help with a more accurate evaluating indoor air leakages.



44032



Kidde FM-200 FIRE SUPPRESSION SYSTEMS



Clean, People-Safe Fire Protection for Vital Facilities

FEATURES

- Designed for "Drop-In" Replacement for Halon Retrofit Applications
- Well Suited for Complicated Pipe Networks and Large Area Coverage with Minimal Room for Cylinder Storage
- Optional Liquid Level Indicator
- UL Listed
- FM Approved

SYSTEM DESIGN

The Kidde GX20 system comprises a versatile range of cylinders, valves and related components which have been selected for use with FM-200® and have been subject to stringent testing procedures. Flexibility, quality and reliability make the Kidde GX20 range the world's finest in fire safety and the equipment carries third party listing through FM Global and the Loss Prevention Certification Board, UL2166 compliance and Lloyds Register of Shipping.

KIDDE GX20 CYLINDERS

A wide range of cylinder sizes from 5 to 368 litres is available, offering a choice of fill capacities to meet specific requirements and ensure maximum economy in installation. Each cylinder is manufactured from high strength alloy steel and both TPED and DOT approved cylinders are available.

KIDDE GX20 VALVES

Valves are designed for optimum system performance, allowing pipe sizes to be reduced and installation costs to be lowered. They are manufactured from tough, corrosion-resistant brass under stringent quality control standards. A pressure monitoring gauge and optional supervisory pressure switches are provided for easy servicing. Valves can be actuated by electric solenoid, pneumatic pressure, or local manual release at the control head.



All related components from discharge nozzles to control heads are designed to be compatible allowing a complete system to be configured using FM Global and UL approved Kidde Fire Protection Equipment.

NOZZLES

Custom-designed nozzles are available with normal pipe sizes from 1/2" to 2", including 180° and 360° configurations.

ASSURED RELIABILITY

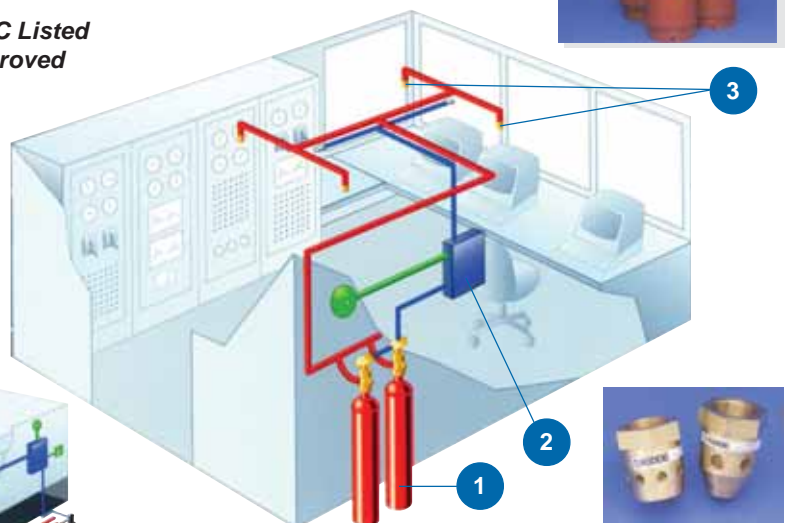
Kidde GX20 systems are designed to conform to NFPA 2001 and ISO 14520 requirements. An empirically-verified computer program is used to model two-phase agent flow and ensure that the correct concentration of agent is achieved within 10 seconds throughout the protected zones as required by the NFPA and ISO Standards.



Typical Applications

- Computer suites
- Telecommunications Facilities
- Internet Service Providers
- Control rooms
- Railway signalling Centres
- Air traffic control centres
- Stores & Archives
- Heritage sites - art
- Galleries and Museums
- Medical and laboratory Equipment
- Petrochemical Plant
- Offshore Oil and Gas Installations
- Pipeline Pumping Stations
- Ship's Engine Rooms

UL Listed, ULC Listed
and FM Approved



System Components:

1. Main Argonite Cylinders
2. Control Panel
3. Discharge Nozzle



Technical data are subject to modification for improvements without prior notice

The Natural Choice in Fire Protection: Kidde Argonite™ Suppression System



Argonite™ is an inert gas clean agent consisting of equal parts pure Argon and pure Nitrogen.

As a clean agent, Argonite will extinguish a fire without endangering personnel nor damaging business equipment or property. With a simple two-gas mixture, local Argonite refilling sources may be found throughout the world, decreasing ownership costs and minimizing business downtime.

By using natural elements, Argonite offers an Ozone Depletion Potential (ODP) and Global Warming Potential (GWP) of zero.

Argonite provides the fire suppression agent solution for companies, industries and governments adopting environmentally-conscious policies. Simple to design with a flexible installation, the Kidde Argonite system accommodates on-site field changes more easily than other clean agent systems. A single Kidde Argonite system may easily protect multiple separate hazards using one common cylinder bank, which reduces component costs and provides the flexibility demanded by businesses incorporating future expansion.



Kidde Fire Systems Innovation in Fire Protection.



UL Listed, ULC Listed and FM Approved

4



Kidde Argonite System Features:



- Safe for Personnel and Equipment
- Ozone Depletion Potential (ODP) and Global Warming Potential (GWP) of Zero



- Remote Cylinder Storage Capability



- Local Refill Sources
- Automatic or Manual Actuation
- No Residue Clean-Up—Minimizes Downtime

Why Choose a Kidde Argonite System?

Effective. Argonite is a colourless, odourless, electrically-nonconductive gas whose molecular weight is similar to that of air, therefore holdtimes are greatly increased. As a result, the need to seal the hazard area to achieve the concentration level necessary for suppression may be reduced with the use of a Kidde Argonite System.

Clean. A combination of naturally-occurring atmospheric elements, Argon and Nitrogen, Argonite dissipates into the air allowing an almost immediate return to “business as usual” without the interruption of a costly clean-up and the expense of damage to assets from suppressant residue. This results in fewer repair costs and reduced downtime.

Safe. Argonite offers an Ozone Depletion Potential (ODP) and Global Warming Potential (GWP) of zero.

In the event of a fire-related discharge, Argonite will not decompose, emit by-products or produce obscuration when exposed to a flame-allowing personnel unimpeded escape during an evacuation.

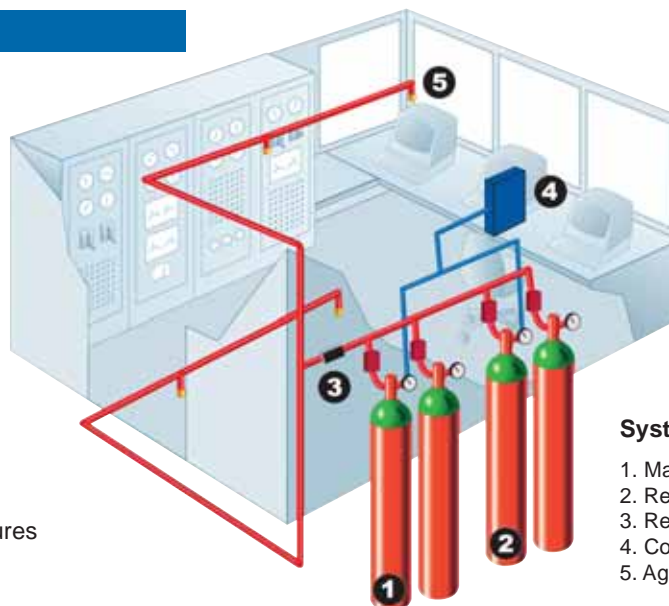
Trusted. At Kidde, we know a fire-related business interruption can keep your company from being competitive in a global market. We are committed to researching, developing and providing the most advanced fire protection technology and best customer service in the industry. We understand the marketplace demands an “up and running” business world around the clock. We are dedicated to keeping industry “in business” by keeping fires out.

Typical Applications

The Kidde Argonite System is ideal for :

- Electronics/Data Processing Equipment
- Pharmaceutical Facilities
- Banks/Stock Exchanges
- Museums/Art Galleries
- Colleges/Universities
- Electrical Rooms
- Libraries
- Control Rooms
- Medical Facilities
- Records/Archive Storage
- Telecommunications Facilities
- Railway/Airport Signal Traffic Controls

A Kidde Argonite System designed specifically for the hazard and operated automatically, assures immediate detection and rapid suppression.



System Components:

1. Main Argonite Cylinders
2. Reserve Cylinders
3. Restrictor
4. Control Panel
5. Agent Nozzle

**Protecting Your Assets Today;
Protecting Our Environment Tomorrow...
Kidde Engineered Fire Suppression System**



Designed for use with 3M™ Novec™ 1230 Fire Protection Fluid

Kidde Fire Protection is constantly striving to make our product offering as comprehensive as possible to ensure that we will have the right system available for your application. With that in mind, Kidde Fire Protection, together with 3M™, have designed an engineered system that is both environmentally responsible and ideal for special applications.

**3M™ Novec™ 1230
Fire Protection Fluid
is stored as a liquid
and discharged into the
protected space as a gas.**

It puts fires out quickly by a combination of heat absorption and chemical interference with the flame.



Environment Friendly

Novec 1230 fluid has a zero Ozone Depletion Potential, a Global Warming Potential of just one, and an atmospheric lifetime of only five days.

Efficient

Novec 1230 fluid puts fires out quickly, before they can do any serious damage. It does this by reaching extinguishing concentrations in ten seconds or less. It is effective on a wide range of Class A, B and electrical fires.



Safe

Independent scientific studies have proven that Novec 1230 fluid poses no safety risk to people in occupied spaces at the normal design concentration. It also offers a safety margin of up to 100% - that's higher than any other type of clean fire suppression agent.

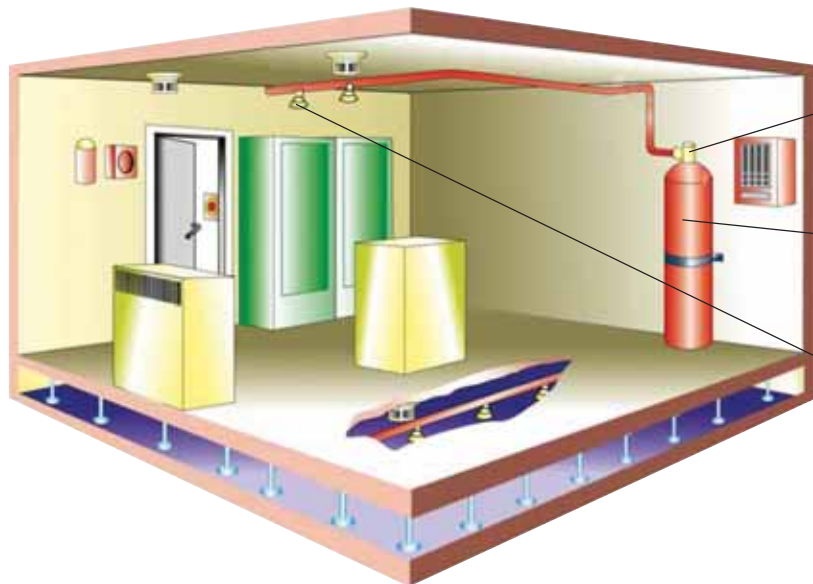
Clean

Novec 1230 fluid discharges as a colourless, electrically nonconductive, and non-corrosive gas. It does not leave any residue behind, and there is no need for costly clean-up operations.

Cost-Effective

By using its tried and trusted range of 25 bar equipment, Kidde has produced a cost-effective Novec 1230 fluid Fire Suppression System with independent third party approvals recognised worldwide.

The Kidde Engineered Fire Suppression System consists of 3M™ Novec™ 1230 Fire Protection Fluid stored in cylinders connected to distribution pipework and nozzles.



Applications

Archive Stores
Art Galleries
Museums
Clean Rooms
Computer Suites
Operation Rooms
Control Rooms
Railway Signalling Centres

Air Traffic Management Centres
Data Processing Equipment
Electronic Data Processing Facilities
Financial Centres and Banks
Electronics and Data Processing
Heritage Sites
Insurance Industry
Internet Service Providers

Libraries
Medical and Laboratory Equipment
Military Installations
Offshore Oil and Gas Installations
Pipeline Pumping Stations
Petrochemical Plants
Pharmaceutical and Medical Facilities

Power Generation
Process Industry Control Rooms
Rare Book Libraries
Record Storage
Substation Control Rooms
Switch Rooms
Telecom Centres
Universities and Colleges

Technical data are subject to modification for improvements without prior notice

FIRE SYSTEM GAS HFC ECOLOGIC HFC 227

Various products can replace Halon 1301 forbidden as severely damages the ozone layer.

Most known is FM200[®] identified as HFC227 from the international standards as agent for total flooding applications.

The product is safe for humans, ecologic, without restrictions being compatible with the ozone layer.

In facts, its ODP = 0 and NFPA classify it as safe for total flooding application even in presence of humans when used in the proper concentration suggested by the standards NFPA 2001 and further updates.

Concentration normally requested is 8%, means 633 gr/mc at 20°C. Do not leaves residue, ideal to protect high value equipments such as museum, banks, EDP computer servers, switching rooms, archives, caveau, etc....

EPA, Environments Protection Agency and NFPA recognize it as one of most efficient substitute of halon 1301 available.

It is chemically very stable, and having a low ALT of 36 years it is accepted all over the world.

ADVANTAGES versus INERT GASES.

After discharge in a total flooding application oxygen concentration remain high, close to 19% enabling easy breathing also to persons with respiration chronic disease, comparing with inert gases which drop to 12%, which may cause serious breathing problems.

The extinguishing time it is less than 10 seconds, comparing to more than 1 minute of inert gases.

Lower pressure at 42 bar comparing with 300 bar.

Lower number of cylinder.

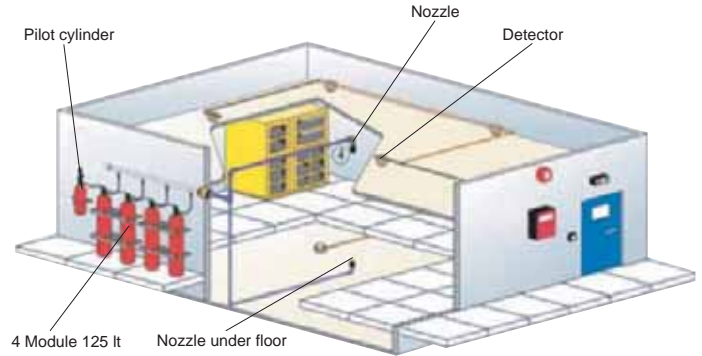
Rechargeable on site.

More service points can make a fast refilling.

HFC 227 gas extinguishing system

Application Area

Control rooms, Computer rooms, Telecommunication facilities, Libraries,



Comparization to protect 1.000 m3

Extinguishant Agent	Discharge time sec"	Extinguish time sec"	Quantity needed Kg	Number of cyl	Total weight
HFC 227 (best known as FM200[®] (2))	10	> 10	633	5 da 120	1.230
Halon 1301 (out of market)	10	> 10	331	3 of 20	715
HFC 125	10	> 10	502	5 of 120	1.142
HFC 23 (known as PF23 [®] o FE 13 [®]) (2)	10	> 10	644	7 of 120	1.540
IG-01 (100% argon)	60	> 60	514 m ³	12 of 140	3.073
IG-55 (50% argon 50% nitrogen)	60	> 60	439m ³	11 of 140	2.702
IG-100 (100% nitrogen)	60	> 60	486 m ³	13 of 140	3.151
IG-541 (1)	60	> 60	587 m ³	21 of 80	4.275

Sources: (1) INERGEN Tyco/Wormald - FM 200[®] Great Lakes - (2) (3) PF23[®] FE13[®] Dupont

Concentration %

Design concentration* % for class risk Class "A" e "B" according to NFPA

Product	volume (%) "A"	gr/mc "A" *	volume (%) "B"	gr/mc "B" **	esposure persons min'
HFC 227ea	7,9	625	8	725	5'
Halon 1301	5,0	331	5,0	331	5'
HFC 125	9	502	10,44	589	5'
HFC 23/FE13	18	644	14,4	493	5'

* Test with "woodpile" + 20% safety factor

** Test "cup-burner", heptan +20% of safety factor

Properties HFC 227

Chemical formula:	CF ₃ CHFCF ₃
Chemical name:	Heptafluoropropane
Molecular weight:	170
Boiling point at 1,013 bar	16,4 °C
Freezing point	127 °C
Critical Temperature	101,7 °C
Critical Pressure	29.26 bar
Critical volume	274 cm ³ /mol
Critical Density	573 kg/m ³
Vapour Pressure 20 °C	3.90 bar
Liquid density at 20 °C	1410 kg/m ³
Saturated vapor density at 20 °C	31,035 kg/m ³
Specific volume of heated steam at 1,013 bar and 20 °C	0,1374 m ³ /kg

Cylinders details HFC 227 or HFC 125

The modules ready for installation include: cylinder, discharge valve 42 bar, protection cap, gauge.

NOT INCLUDED: extinguishing agent, electric or pneumatic actuator.

The charge and quantity of gas (not included) depend on the computer calculation to be carried out by our technical department.

HFC 227 is calculated 0.625 kg/m³. Filling Factor: 1.15 * Kg / Lt.

HFC 125 is calculated 0.502 kg/m³. Filling Factor: 0.93 * Kg / Lt.

Maximum coefficient of charge: 1.1 kg / l for HFC227 and 0.93 for HFC125

The 85 and 125 Lt cylinders manufactured from A.B.S. are tested by T-PED BV. The hydraulic calculation of the diameter pipes, the number of nozzles and their diameter must be done by computerized and certified calculation, which allows with absolute precision, the correct and homogeneous discharge. A.B.S. have the software certificate, and the technicians with the expertise gained in hundreds of installations in Italy and abroad.

Flows pipe kg/sec

diameter tubi	Min	Max
1/2"	0.454	1.361
3/4"	0.907	2.495
1"	1.588	3.855
1 1/4"	2.722	5.67
1 1/2"	4.082	9.072
2"	6.35	13.61
2 1/2"	9.072	24.95
3"	13.61	40.82
4"	24.95	56.7
5"	40.82	80.72
6"	54.43	136.1

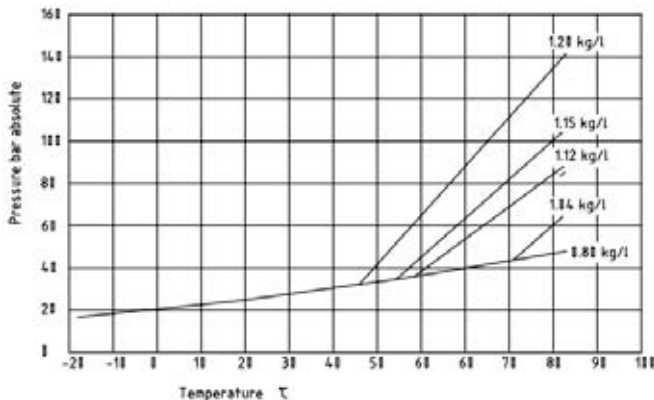
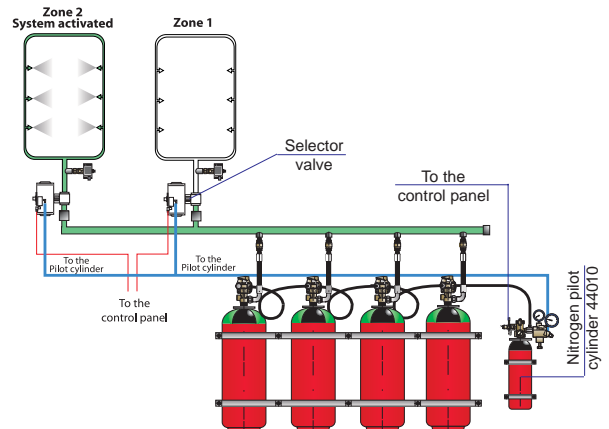


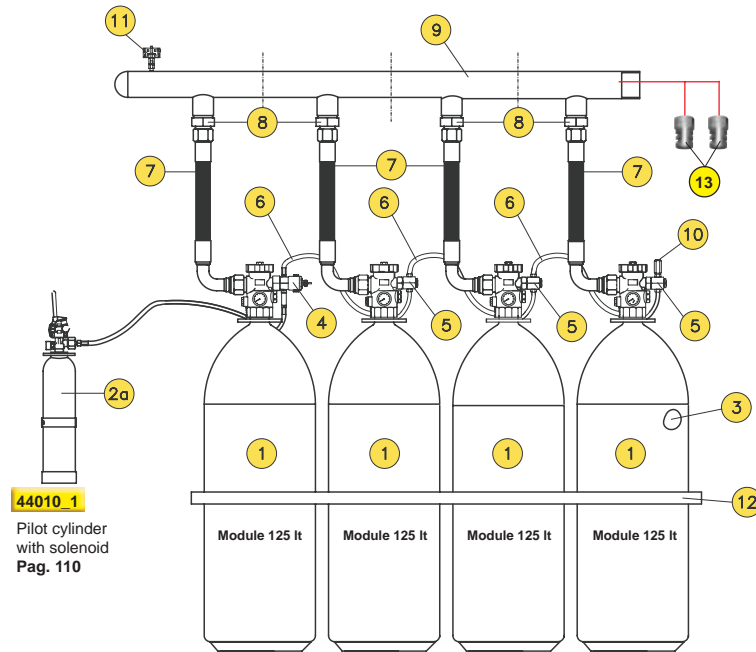
Figure 2.1 FM-200 Pressure/Temperature Curve

Gas extinguishing system with selector valve



Example calculation

The pilot cylinder 44 010 activated by the control panel or with manual actuator, allows the opening and simultaneous discharge for all cylinders.



CED mt 20x20x3 = 1200 Mc at 42 bar
Necessary Gas: 0,633 kg/m³ = Kg 760 = 8 module 125 lt

The diameter pipe, number of nozzles and orifices discharge must be calculated with the computerized calculation certificate.

Pos	Description	Cod.	Num
1	Module 125 lt, at 42 bar	43041	8
2a	Pilot cylinder (Solenoid 24 Vdc)	44010_1	1
3	kgs gas HFC 227	43141	750
4	Pneumatic/manual actuator	41184	1
5	Pneumatic actuator	41188	7
6	Hose between cylinder 1/4"mgo	44011	7
7	Duck bend	43037	8
8	Non return valve	43069	8
9	Manifold 8 places 6"	42007_1	1
10	Venting valve	41054	1
11	Pressure switch	41014	11
12	Kit brackets 8 places 41092	41092	8
13	1 1/2" Discharge nozzle at 360°	44091	12

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HFC assembled module

1 Complete with: Cylinder, valve, protection cap, tested at 42 bar, gas is not included.

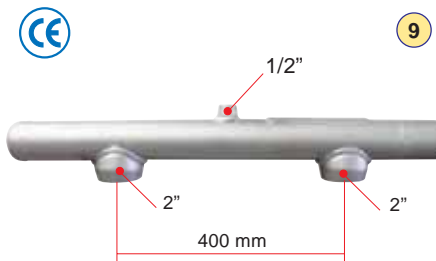
For systems with more cylinders, each module can be filled with a minimum and maximum amounts in the table below. Larger quantities are permitted only on the single module and in any case must be made a verification of computing.

Cod.	Lt	D	H	Kg/max	Valv.
43034	7	136	695	7	3/4"
43035	14	154	1000	13	3/4"
47027	27	232	950	25	3/4"
47027_1	27	203	1170	25	3/4"
43047	40	232	1330	31	1"
43038	60	267	1330	55	2 1/2"

Cod.	Lt	Diam mm	H~ mm	HFC227 kg min	HFC227 kg max	Empty kg~
43039	80	360	1240	42,5	67	100
43041	125	356	1650	62,5	95	85

Manifold certified

Manifold marked and tested at 120 bar



Dimension of the manifold and number cylinder. Must be checked by computer calculation

Cod.	Diam mm	Max kg	Cylinder 125 Lt
42007_0	2 1/2"	250	2
42007	2 1/2"	250	3
42007_1	3"	375	4
42007_2	4"	500	5
42007_3	5"	625	6
42007_4	6"	760	8
42007_5	2"	190	2

Nozzle

Supplied with calibrated orifice from the computer calculation.

3 model 90° - 180° - 360°
 On request other model.



Cod.	diam	Flow Kg/sec	
		min	max
44007	1/2"	0,45	1,36
43026	3/4"	0,97	2,45
49008	1"	1,59	3,85
44090	1 1/4"	2,72	5,67
44091	1 1/2"	4,08	9,07
44092	2"	6,35	13,61

Wall bracket kit

41092 KIT for 1 cylinder. The code is for 1 cylinder. Multiply the price for multiple cylinder.

The profile shaped "U" with the groove allows to fix on the wall rapidly and with ease. The nut with the washer runs inside the groove allowing precise positioning of the cylinder.

Wall bracket kit is complete with:

Threaded rod

Nut with the washer

Profile shaped "U"

Available on size lenght max 3 mt



Pressure Switch

41014 Pressure switch 1 contact NC-NO 10 A

The pressure switch, placed on the discharge manifold, shows, it's one contact NA and NC. Pressure switch through a pneumatic system, the passage of the gas extinguisher through the distribution line and, through an electrical contact, sends alarm sounds, it disconnects the electrical circuit, etc.

41014 Pressure switch 2 contact NC-NO 10 A

On request
EEx IIB T6 type

41054 Venting valve



Valves and actuator for gas HFC 227 / 125

43072 3/4" npt x 3/4" m

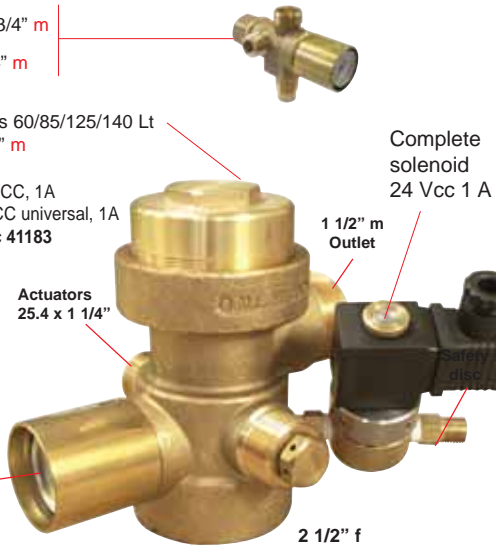
43051 1" npt x 3/4" m

43052 2 1/2" f
for cylinders 60/85/125/140 Lt
Outlet 1 1/2" m

Activated by:
Solenoid **41031** at 24VCC, 1A
Pyroactuator **41133** VCC universal, 1A
Manual e/or pneumatic **41183**

43101

Manometer with pressure switch
Wika. VDS
Approved
Optional



Complete solenoid
24 Vcc 1 A

2 1/2" f

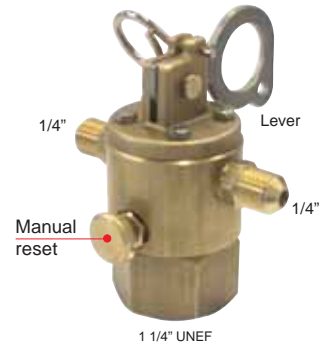
44150 Complete solenoid
24 Vcc 1 A

41031 Solenoid actuator 24Vcc 1 A

41138 EEx IIB T6 type

41183 Manual actuator and
pyro pneumatic

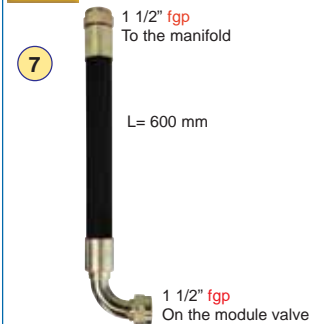
41184 Pneumatic and
manual actuator



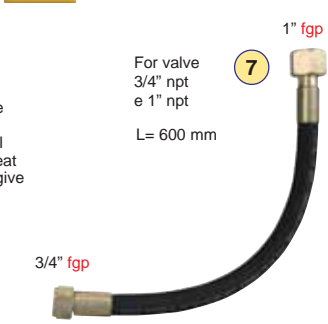
41188 Pneumatic actuator



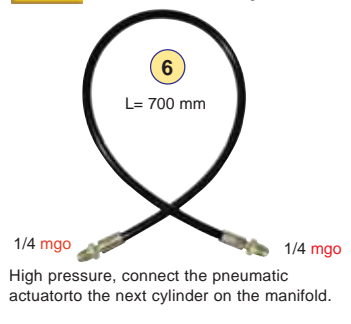
43046 Duck bend 90°



43037 Flexible duck bend



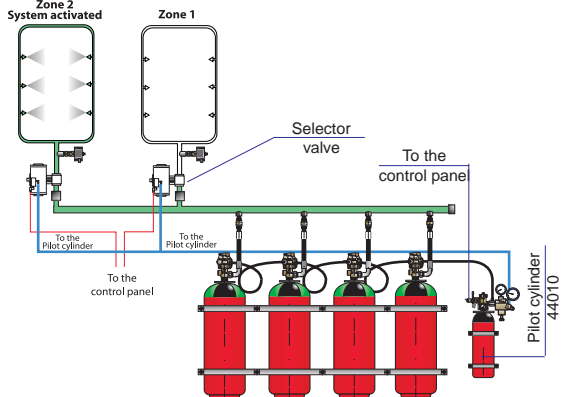
44011 Hose between cylinder



44022 Selector valves



With electropneumatic actuator at 24 Vdc, CE marked. The system control panel permits opening of alarmed fire zone and discharge the gas in single zone. They are useful to protect with a single bank of cylinders more than one zone under fire risk enabling a considerable saving.



Cod.	Diameter
44022	1 1/4"
44021	1 1/2"
44018	2"
44023_1	2 1/2"
44093_1	3"
44068_1	4"

Non return valve

Prevents the return of the gas into cylinder.

43069 2" x 1 1/2"



43048 Optional telescopic
2" npt



Operating pressure: 300 bar

POWDER FIRE SYSTEM

- Timeliness of extinguishing action
- Great effectiveness of extinction
- Activation less than 10 seconds
- ABC powder, or MONNEX.



Cylinder made of carbon steel, working pressure 12 bars tested and approved CE -TPED Bureau Veritas.

The main valve is activated when the tank is pressurized.

Unique technology pressurize the tank in less than 10 seconds.

All accessories are preassembled on skid.

Equipped with high pressure nitrogen bottles, rapid discharge valve, pressure reducer, actuator electrical, pneumatic and manual.

Each skid have 2 extra outlet standard to connect optionally 2 manual hose reel with machine gun nozzle flow 2 kg/sec.

Almost zero residual after discharge.

IFP POWDER SKID SYSTEM

Preassembled skids, ready to instal.

Complete with filling cap 100 mm, safety valve, pneumatic high flow ball valve, nitrogen cylinders.

Optional cylinder in stainless steel and also foam version.

On request explosion proof EEXD actuator.



Cod.	Capacity KG	N° Cylinders Nitrogen LT	Valve outlet
40030	30	1 x 3	1"
40050	50	1 x 7,5	1"
40100	100	1 x 14	1"
40250	250	1 x 14 + 1 x 27	3"
40500	500	1 x 27 + 1 x 40	3"
40xxx	1000	3 x 40 lt	4"



4

Characterized by great efficiency. Employed in risks sites in presence of flammable liquids and gases, as in the industries of paints, oil platforms, warehouses, booths and paint lines, etc. Dry powder knock down the flames very rapidly.



Manufactured in various solution upon customer request

Powdersystem with selector valve

Selector valve

Cod.	Diameter
40016	1"
40010	1 1/2"
40013	2 1/2"
40006	3"



Solenoid.
24 Vcc 0.1 Ah



Max working pressure 50 bar

40014 Horn discharge powder 60°

Brass open nozzle 1/2" , aluminium diffuser horn.
Enable soft drop of powder for max efficiency.

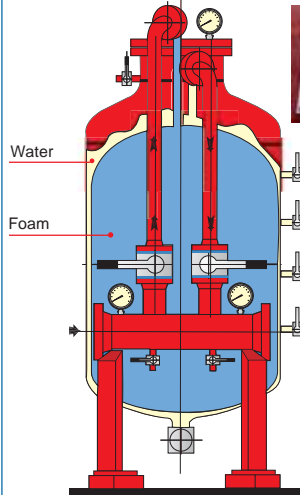
Connection 1/2" M



FOAM FIRE SYSTEMS

It consists, in a cylinder with a rubber diaphragm bladder inside containing the foam concentrate. The water put in pressure by a pump flows through the Venturi mixer. Part of it goes into the hollow space between tank and diaphragm and forces the foam through the calibrated hole into the Venturi mixer and

subsequently to the foam nozzles, or whatever foam equipment. It is equipped with all operating and checking devices. It can be manufactured in different models and sizes according to the customers' request. It is commonly used for hazards which requires a big quantity of foam concentrate. The normal work pressure is 5 - 12 bar and for this reason the premixer is particularly recommended where only low pressure is available. Mixer average pressure loss: ~ 1 bar.



Vertical bladder tank					
Code	Capacity lt.	Diameter mm	Height mm	Depth mm	Weight Kg
83207	300	600	1100	1070	150
83208	600	800	2115	960	440
83209	1.000	1000	2195	1145	519
83210	1.500	1000	2785	1145	625
83211	2.000	1100	3045	1232	845
83215	3.000	1270	3330	1352	1137
83216	4.000	1450	3420	1506	1307
83217	5.000	1600	3495	1670	1435
83218	6.000	1750	3575	1825	1589
83219	7.000	1750	3925	1825	1741
83220	8.000	1960	3705	1967	2124
83221	9.000	2100	3795	2118	2668
83222	10.000	2200	3845	2200	2826

4

83212 Manual pump for foam charge



Horizontal bladder tank						
Code	Capacity lt.	Diameter mm	Width mm	Height mm	Depth mm	Weight Kg
83209_1	1.000	1000	1670	1590	1200	320
83210_1	1.500	1000	2260	1590	1200	415
83211_1	2.000	1100	2540	1690	1300	665
83215_1	3.000	1270	2840	1865	1435	880
83216_1	4.000	1450	2950	2045	1575	1270
83217_1	5.000	1600	3025	2200	1750	1440
83218_1	6.000	1750	3110	2340	1900	1610
83219_1	7.000	1850	3170	2495	2000	1810
83220_1	8.000	1960	3225	2565	2100	2030
83221_1	9.000	2100	3305	2700	2225	2650
83222_1	10.000	2200	3365	2800	2325	2835

Self suction mixer



Nozzle: Brass
Pick-up Pipe: PVC with reinforced spiral
Connections: Flanged
Manufactured at custom requirements and system calculations.

Code	Flow rate lt/1'-5bar	Mixing ratio %	Working pressure range applicable	Pressure loss %	Weight kg	A DN	B mm
83230	1000 - 2300	3 - 6	6 - 12	37	15	80	210
83230_1	2000 - 4000	3 - 6	6 - 12	33	15	100	275
83230_2	4000 - 6000	3 - 6	6 - 12	33	25	100	310

High expansion generator

Used to flood in very short time environments such as large storage warehouses, airport hangars, tunnels. Foam creates a barrier to oxygen, because its big bubbles incorporate a large volume of air, preventing the oxygen to be involved in the combustion, and preventing the expansion of the fire. The foam is lightweight, non-toxic and does not constitute any danger for people who can breathe in case accidentally trapped in a site where foam is flooded. In optimal conditions one liter of water can produce from 600 to 800 liters of foam.

Cod.	DN mm	Ltm	Foam M3/min
83213	40	200	150
83214	65	400	300

Example for a warehouse:
Dim 50x50x5 = 12.500 cub/mt
10 generators 300 M3/min = 3000 mc
Time in minutes 12500 / 3000 = 4',16
Water used: 400x10x4,16 = 16,64 cub/mt
Foam used 16,64x3% = 500 Lt



83214

Dimensions 925x1850x925 cm.

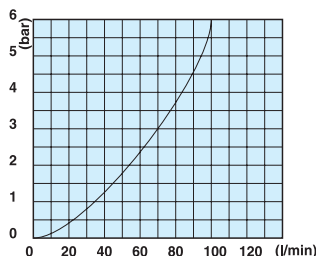
Expansion ratio from 1:600 to 800.
Foam used: Synthetic 97% water and 3% foam
Made in galvanized steel. Optiona Stainless

Foam nozzle



1/2" **42001**

Spray jet
Low expansion 1:8
Body made in bronze
On request in stainless steel.



Foam spray nozzle

42000



1/2"

Spray jet
Low expansion 1:8
Body made in bronze and stainless steel.
Low profile, small footprint, high efficiency, produce an excellent spray foam. Suitable for deluge system.

SYMPLE SYSTEMS, CHEAPER, EFFICIENT HIGH EXPANSION FOAM GENERATOR

The high expansion foam generator use a solution of 97 % water and 3% foam compound, in order to produce great quantity of foam. The foam is very light, it occupy easily the volume of the protected zone imprisoning the oxygen in its big bubble and preventing the combustion.

Expansion ratio is 1:400.

Specific weight ~ (2,2 kg to m3).

Stainless steel foam generator.
Can be used also as a portable.



83200 200 lt/min 550x550x550 mm

83204 400 lt/min 700x700x700 mm

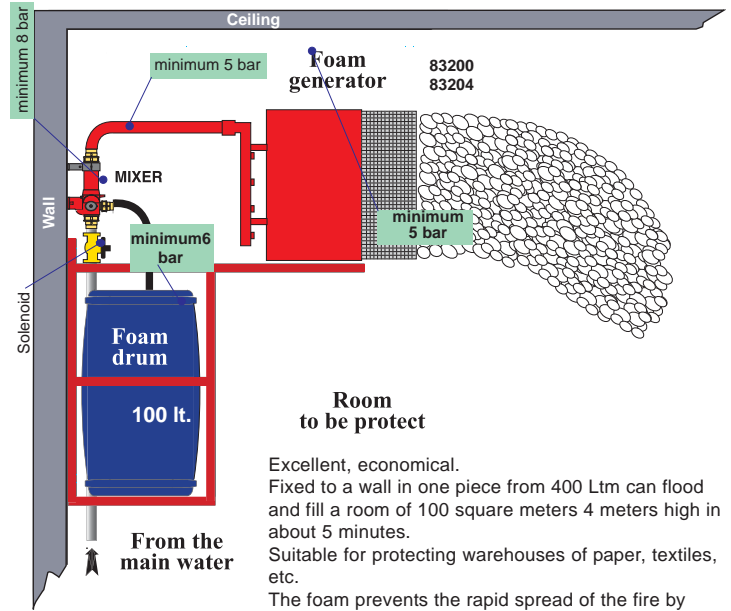
Stainless steel foam generator, Wall fixed, with 100 Lt foam.
Drum of 200 Lt available.



83201
83205

145
56
115
cm

Example of use Cod. Generator **83202** , **83206**.



Room to be protect

Excellent, economical.
Fixed to a wall in one piece from 400 Ltm can flood and fill a room of 100 square meters 4 meters high in about 5 minutes.
Suitable for protecting warehouses of paper, textiles, etc.
The foam prevents the rapid spread of the fire by isolating oxygen.

Expansion about 1:400. Required pressure 8 bar on the mixer inlet.
More information on the Technical bulletin.

cod.	Flow Lt/min	Discharge min'	Foam m3/min'	Data at 8 bar diameter
83200	200	30	80	2" only generator
83201*	200	30	80	2" + mixer
83202*	200	30	80	2" + mixer + canister + solenoid
83204	400	15	160	2 1/2" only generator
83205*	400	15	160	2 1/2" + mixer
83206*	400	15	160	2 1/2" mixer + canister + solenoid

Models **83200** and **83204**, must be feed from a solution foam coming from a mixer, or bladder tank.

Models **83201** and **83205**, have the incorporated mixer, they inhale the foam compound directly from 100 Lt foam drum.

Models **83202** and **83206** in addition to mixer and the foam cylinder have also a solenoid valve that allow automatic discharge through a control panel and fire detectors.

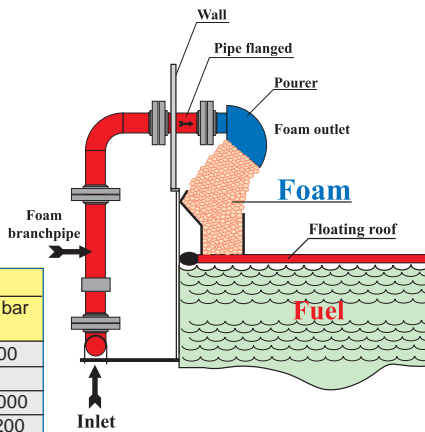
All the models are made in stainless steel, with filter to protect the nozzle against the impurity.

*** Complete with a steel frame to be fixed on the wall and a 100 Lt Foam synthetic drum.**

Oil tank foam pourer

Used to protect oil or flammable liquids tanks.
The pourer drops gently the foam inside the tank or in the edges of the floating roof.

Made in steel, painted red Ral 3000 after a deep shot sand blasting.
On request hot-dip galvanized or stainless steel AISI 304 / 316.



Foam branchpipe		
Diam.	Pressure bar	Flow at 5 bar Lt/min
2" x 3"	5 ÷ 16	200 ÷ 400
3" x 4"	5 ÷ 16	800
4" x 6"	5 ÷ 16	1600 ÷ 2000
5" x 8"	5 ÷ 16	2400 ÷ 3200

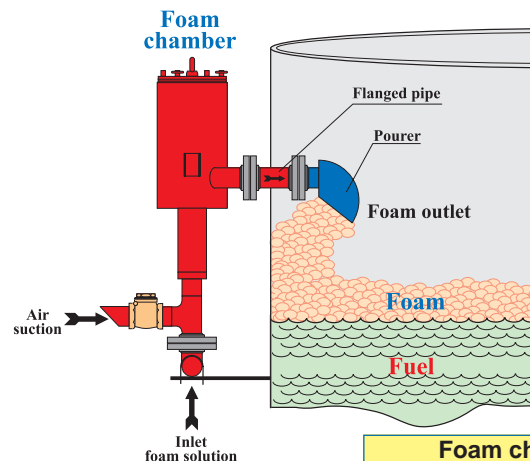
Flanged pipe		
Diam.	Pressure bar	Flow at 5 bar Lt/min
2" x 3"	5 ÷ 16	200 ÷ 600
3" x 4"	5 ÷ 16	800 ÷ 1200
4" x 6"	5 ÷ 16	1600 ÷ 2000
6" x 8"	5 ÷ 16	2400 ÷ 3200

Pourer		
Diam.	Pressure bar	Flow at 5 bar Lt/min
3"	5 ÷ 16	200
4"	5 ÷ 16	400
6"	5 ÷ 16	800
8"	5 ÷ 16	1600

Foam chamber

Used to protect flammable liquids tanks with fixed roof.
The device is equipped with a seal to avoid that vapors on the tank may return back on the pipe line.

Made in steel, painted red Ral 3000 after a deep shot sand blasting.
On request galvanized or stainless steel AISI 304 / 316.



Foam chamber		
Diam.	Pressure bar	Flow at 5 bar Lt/min
3"	3 ÷ 16	200
4"	3 ÷ 16	400
6"	3 ÷ 16	800
8"	3 ÷ 16	1500

Technical data are subject to modification for improvements without prior notice

Adjustable monitor



On request special version up to 8" remote.

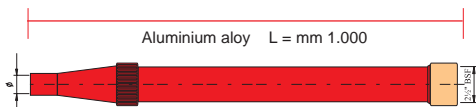
ADJUSTABLE NOZZLE

Full jet or spray fog adjustable.
Flow up to 3.000 Litres/min.
Suitable for water and spray foam.
Made in brass, on request in aluminium or stainless steel.



82050

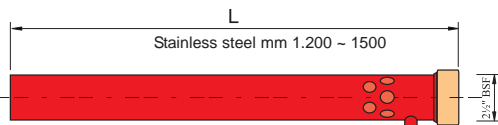
82500 Water branchpipe for monitor 2 1/2" made in aluminium



WATER BRANCHPIPE FOR MONITOR

Nozzle mm	Flow=lt/min			Jet mt		
	bar 8	10	12	8	10	12
25	1150	1300	1400	40	43	46
30	1700	1840	2040	45	49	53
35	2280	2480	2730	50	54	58
40	3000	3250	3600	56	60	63

82225 Foam branchpipe 1600 lt with mixer



FOAM BRANCHPIPE FOR MONITOR

Nozzle mm	Flow=lt/min			Jet mt		
	bar 8	10	12	8	10	12
L5	800	900	1000	32	36	42
L10	1150	1300	1400	40	44	48
L20	2100	2350	2600	46	49	52
L30	3200	3450	3700	49	53	56

Monitor foam / water

82012 Carbon steel

82034 Stainless steel INOX

AISI 304 /316

Mobile available
with 2 inlet DN 70



4" Flanged , (3" on request)

2 1/2" water monitor

-75 +85° vertical
0 - 360° horizontal
Inlet 2 1/2" female.
Supplied with water branchpipe DN 70 L1
L1 and L2 only for water.
LS1 and LS2 suitable for foam complete with mixer

Nozzle mm	Flow=lt/min			Jet / mt		
	bar 3	8	10	8	10	12
L1	800	900	1000	32	36	42
L2	1150	1300	1400	36	40	43
LS1	----	800	900	26	30	35
LS2	----	1200	1200	30	35	40

On request mobile available with 1 inlet DN 70



Inlet 2 1/2" female.



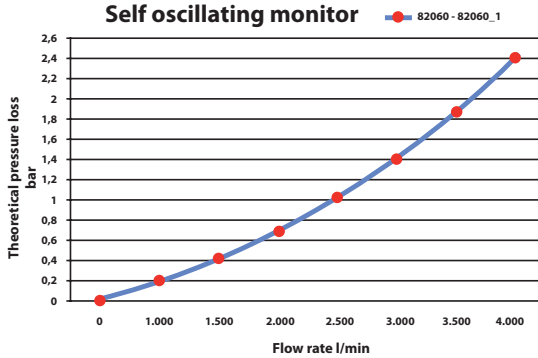
64008

82060 Manual control monitor in Bronze or corrosion proof light alloy

CHARACTERISTICS

Body Size	: 3"
Flow rate	: Less than 4500 l/min
Rotation with lever	: 360°
Vertical rotation	: +85° -50°
Horizontal throw	: Dependent by compatible nozzle or branchpipes
Design pressure	: 18 bar
Test Pressure	: 27 bar
Standard base flange	: Carbon steel
Outlet flange	: External diameter Ø 160 mm
Final coating	: Polyurethanic red coat

- Painting cycles on customer's request
- Third-Party Certifications
- Pressure gauge on outlet
- Drain valve
- Nozzle for thermal irradiation protection
- Elevation lever with compass system



COMPATIBLE NOZZLES OR BRANCHPIPES

- Foam and self inducing foam branchpipes
Cod. 82072 - 82076
- Water branchpipe
Cod. 82071
- Jet spray nozzles
Cod. 82070 - 82070_1
- Jet spray self inducing nozzles
Cod. 82075 - 82075_1

Weight:
Bronze ~24 Kg
Aluminium ~10 Kg

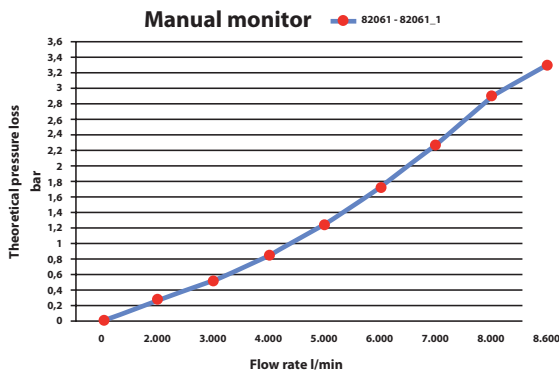


82061 - 82061_1 Manual control monitor in Bronze or corrosion proof light alloy for high flow rates

CHARACTERISTICS

Body Size	: 4"
Flow rate	: Less than 8600 l/min
Rotation with lever	: 360°
Vertical rotation	: +90° -50°
Horizontal throw	: Dependent by compatible nozzle or branchpipes
Design pressure	: 18 bar
Test Pressure	: 27 bar
Standard base flange	: Carbon steel
Outlet flange	: External diameter Ø 160 mm
Final coating	: Polyurethanic red coat

- Painting cycles on customer's request
- Third-Party Certifications
- Pressure gauge on outlet
- Drain valve
- Ø 240 mm outlet flange with adaptor
- Nozzle for thermal irradiation protection



COMPATIBLE NOZZLES OR BRANCHPIPES

- Foam and self inducing foam branchpipes
Cod. 82072 - 82076
- Water branchpipe
Cod. 82071
- Jet spray nozzles
Cod. 82070 - 82070_1
- Jet spray self inducing nozzles
Cod. 82075 - 82075_1

Weight:
Bronze ~40 Kg
Aluminium ~25 Kg

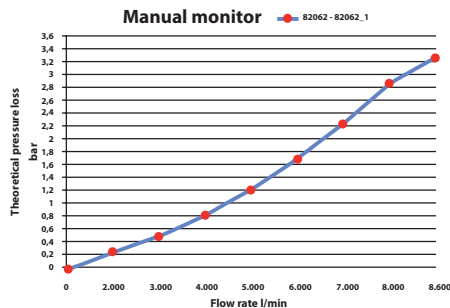


82062 - 82062_1 Manual control monitor in Bronze or corrosion proof light alloy with double handwheel

CHARACTERISTICS

Body Size	: 5"
Flow rate	: Less than 8600 l/min
Rotation with lever	: 360°
Vertical rotation	: +85° -60°
Horizontal throw	: Dependent by compatible nozzle or branchpipes
Design pressure	: 18 bar
Test Pressure	: 27 bar
Standard base flange	: Carbon steel
Outlet flange	: External diameter Ø 160 mm or square flange 150x150
Final coating	: Polyurethanic red coat

- Painting cycles on customer's request
- Third-Party Certifications
- Pressure gauge on outlet
- Drain valve
- Ø 240 mm outlet flange with adaptor
- Nozzle for thermal irradiation protection
- Elevation +90° -75°



COMPATIBLE NOZZLES OR BRANCHPIPES

- Foam and self inducing foam branchpipes
Cod. 82072 - 82076
- Water branchpipe
Cod. 82071
- Jet spray nozzles
Cod. 82070 - 82070_1
- Jet spray self inducing nozzles
Cod. 82075 - 82075_1

Weight:
Bronze ~55 Kg
Aluminium ~32 Kg



82070 Water/Foam nozzle

Test in still air, length dependent on flow rate and pressure at the nozzle.

Base flange made in carbon steel

- External diameter Ø 160 mm
- Final coating (only flange)**
- Polyurethanic red coat

Body Material

- Stainless steel and bronze
- Actuation** : Manual
- Jet type** : Fog, full



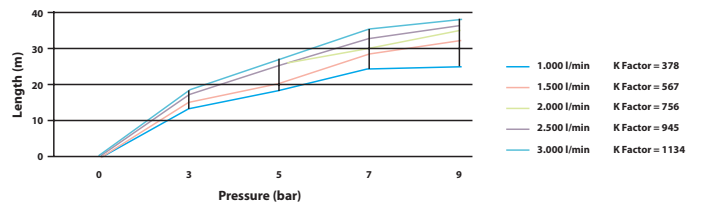
Weight : 5 Kg

EXECUTIONS ON REQUEST

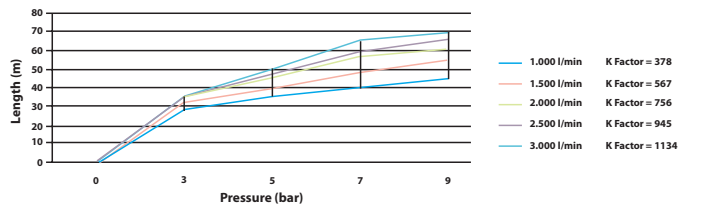
- Other material types for body and base flange
- Painting cycles on customer's request
- Third-Party Certifications

Flow rate : From 1000 to 3000 l/1' calculated at 7 bar

Horizontal throw diagram Nozzle - 82070 - Fog jet horizontal throw Nozzle elevation 20° + 30°



Horizontal throw diagram Nozzle - 82070 - Full jet horizontal throw Nozzle elevation 20° + 30°



4

82070_1 Water/Foam nozzle

Test in still air, length dependent on flow rate and pressure at the nozzle.

Base flange made in carbon steel

- External diameter Ø 160 mm or Ø 240 mm
- Final coating (only flange)**
- Polyurethanic red coat

Body Material

- Stainless steel and bronze
- Actuation** : Manual
- Jet type** : Fog, full



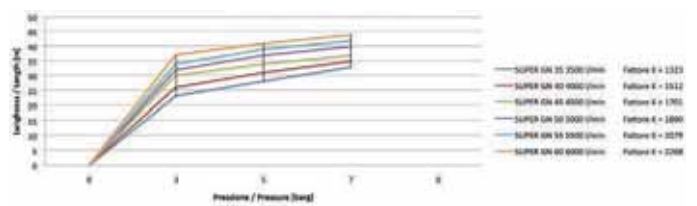
Weight : 12 Kg

EXECUTIONS ON REQUEST

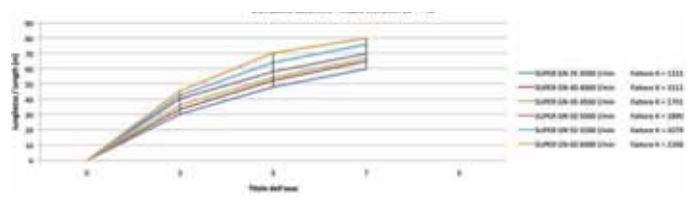
- Other material types for body and base flange
- Painting cycles on customer's request
- Third-Party Certifications

Flow rate : From 3.500 to 6.000 l/1' calculated at 7 bar

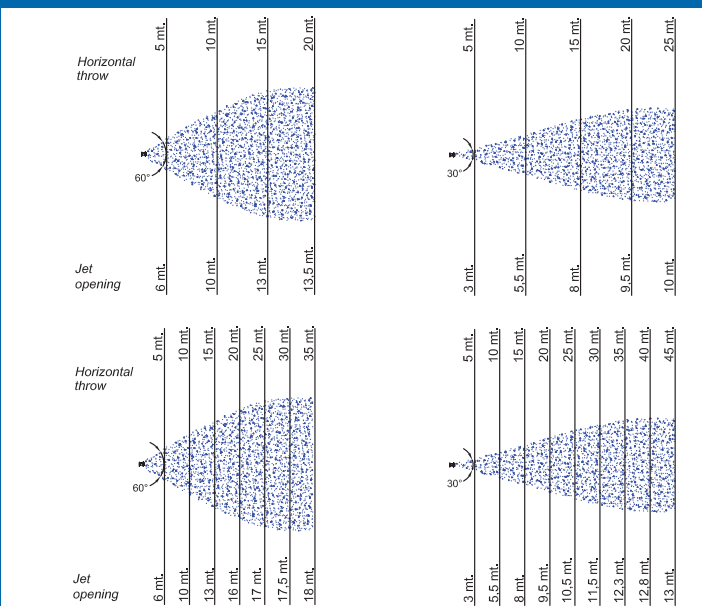
Horizontal throw diagram Nozzle - 82070_1 - Fog jet horizontal throw Nozzle elevation 20° + 30°



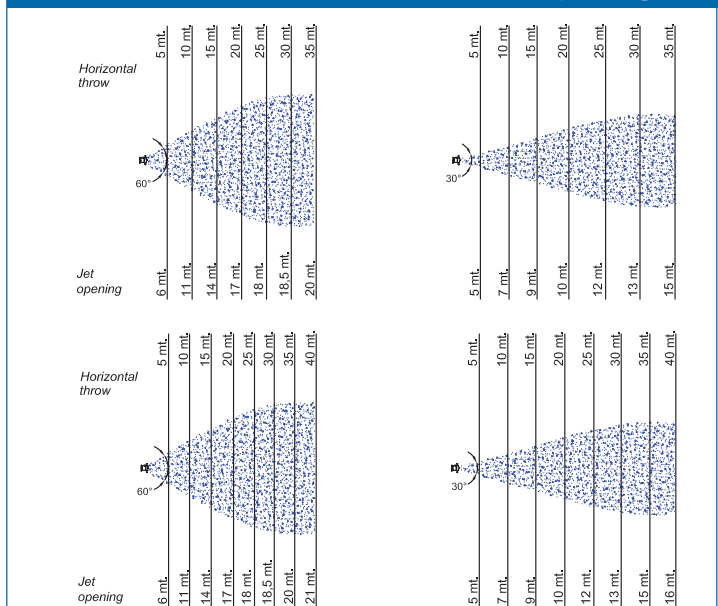
Horizontal throw diagram Nozzle - 82070_1 - Full jet horizontal throw Nozzle elevation 20° + 30°



82070 Horizontal throw and Jet opening



82070_1 Horizontal throw and Jet opening



82075 Self induction water/foam nozzle

Base flange made in carbon steel

- External diameter Ø 160 mm
- Final coating (only flange)**
- Polyurethanic red coat

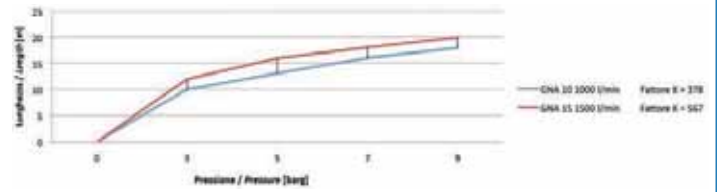
Body Material

- Stainless steel and bronze
- Actuation** : Manual
- Jet type** : Fog, full

Flow rate : From 1.000 to 1.500 l/1' calculated at 7 bar

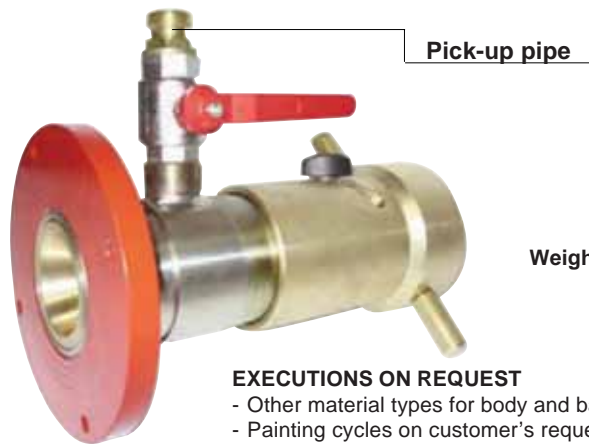
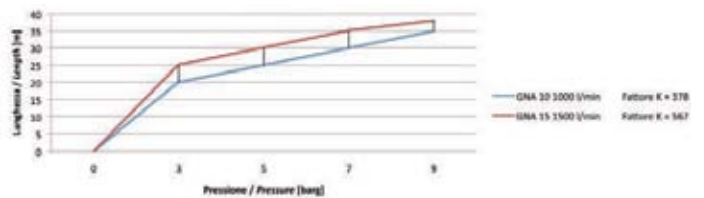
Horizontal throw diagram

Nozzle - 82075 - Fog jet horizontal throw
Nozzle elevation 20° + 30°



Horizontal throw diagram

Nozzle - 82075 - Full jet horizontal throw
Nozzle elevation 20° + 30°



Weight : 6 Kg

EXECUTIONS ON REQUEST

- Other material types for body and base flange
- Painting cycles on customer's request
- Third-Party Certifications
- Double mixing percentage

82075_1 Self induction water/foam nozzle

Base flange made in carbon steel

- External diameter Ø 160 mm or Ø 240 mm
- Final coating (only flange)**
- Polyurethanic red coat

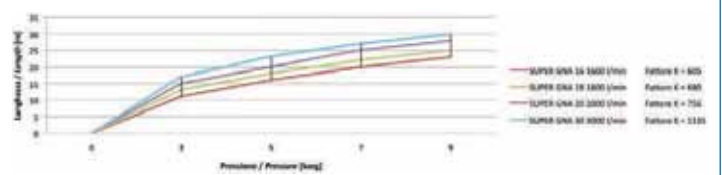
Body Material

- Stainless steel and bronze
- Actuation** : Manual
- Jet type** : Fog, full

Flow rate : From 1.600 to 3.000 l/1' calculated at 7 bar

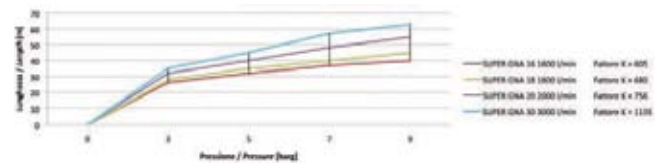
Horizontal throw diagram

Nozzle - 82075_1 - Fog jet horizontal throw
Nozzle elevation 20° + 30°



Horizontal throw diagram

Nozzle - 82075_1 - Full jet horizontal throw
Nozzle elevation 20° + 30°



Pick-up pipe

Weight : 12 Kg

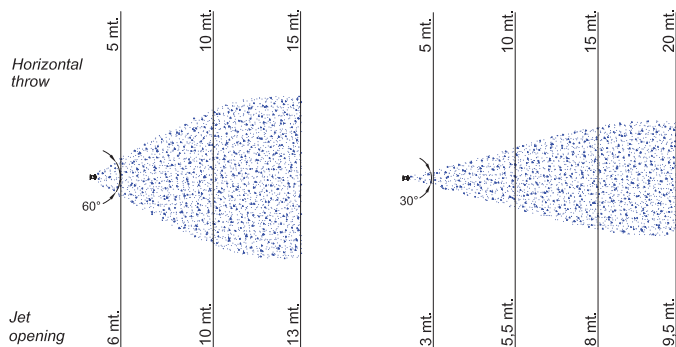


EXECUTIONS ON REQUEST

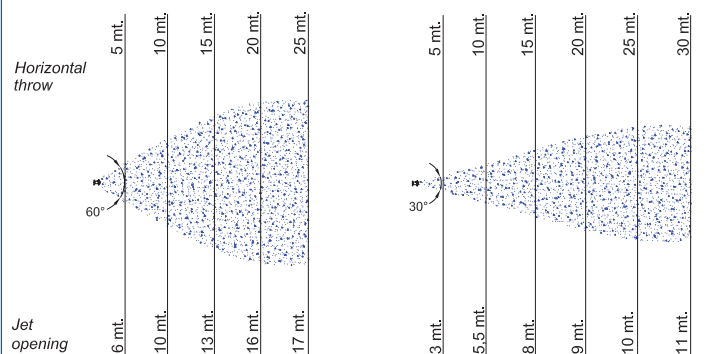
- Other material types for body and base flange
- Painting cycles on customer's request
- Third-Party Certifications
- Double mixing percentage

4

82075 Horizontal throw and Jet opening



82075_1 Horizontal throw and Jet opening



82071 Full jet water branchpipe for monitors

CHARACTERISTICS

Body size: 3", 4", 5", 6"
 Body material: Stainless steel
 Base flange made in carbon steel
 External diameter Ø 160 mm or Ø 240 mm
 Final coating: Polyurethanic red coat

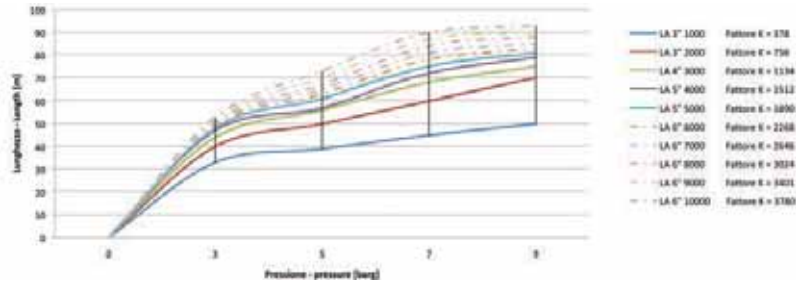
Flow rate: From 600 to 10.000 l/1' calculated at 7 Bar

Cod. 82071	3"	from 1.000 to 2.000 lt	~7 Kg
" 82071_1	4"	3.000 lt	~8 Kg
" 82071_2	5"	4.000 to 5.000 lt	~12 Kg
" 82071_3	6"	6.000 to 10.000 lt	~16 Kg

- Branchpipe body material AISI 316
- Base flange material stainless steel
- Flow rates higher than 10.000 l/1'
- Painting cycles on customer's request
- Third-Party Certifications



Horizontal throw diagram - Water branchpipe - 82071
 Horizontal throw tested up to 80 meters due to pump capacity, tested over 80 meters performed on site by customers



4

82072 Foam branchpipe for monitors

CHARACTERISTICS

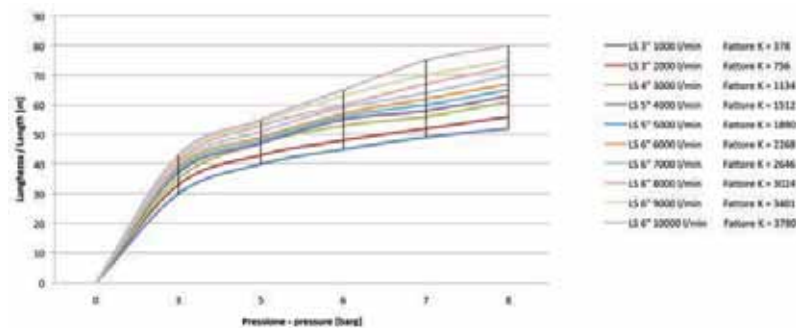
Body size: 3", 4", 5", 6"
 Flow rate: From 1.000 to 10.000 l/1' calculated at 7 Bar
 Body material: Stainless steel
 Nozzle material: High resistance PVC
 Base flange made in carbon steel
 External diameter Ø 160 mm or Ø 240 mm
 depending on requested flow rate
 Final coating: Polyurethanic red coat

Cod. 82072	3"	from 1.000 to 2.000 lt	~7 Kg
" 82072_1	4"	3.000 lt	~8 Kg
" 82072_2	5"	4.000 to 5.000 lt	~12 Kg
" 82072_3	6"	6.000 to 10.000 lt	~16 Kg

- Nozzle material in aluminium, bronze or stainless steel
- Branchpipe body material AISI 316
- Base flange material stainless steel
- Flow rates higher than 10.000 l/1'
- Painting cycles on customer's request
- Third-Party Certifications
- Threaded connection



Horizontal throw diagram - Foam branchpipe - 82072
 Horizontal throw tested up to 80 meters due to pump capacity, tested over 80 meters performed on site by customers



82076 Self induction foam branchpipe for monitors

CHARACTERISTICS

Body size: 3", 4", 5", 6"
 Flow rate: From 1.000 to 10.000 l/1' calculated at 7 Bar
 Body material : Stainless steel
 Nozzle material : Bronze or aluminium
 Horizontal throw : See diagram
 Suction percentage : Fixed, on customer's request
 Base flange made in carbon steel
 External diameter Ø 160 mm or Ø 240 mm
 depending on requested flow rate
 Final coating : Polyurethanic red coat

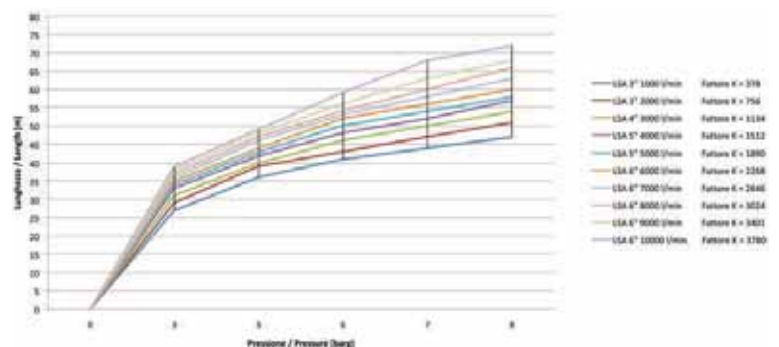
Cod. 82076	3"	from 1.000 to 2.000 lt	~11 Kg
" 82076_1	4"	3.000 lt	~16 Kg
" 82076_2	5"	4.000 to 5.000 lt	~22 Kg
" 82076_3	6"	6.000 to 10.000 lt	~27 Kg

Pick-up pipe

- Nozzle material in stainless steel
- Branchpipe body material AISI 316
- Base flange material stainless steel
- Flow rates higher than 10.000 l/1'
- Painting cycles on customer's request
- Third-Party Certifications



Horizontal throw diagram - Foam branchpipe - 82076
 Horizontal throw tested up to 80 meters due to pump capacity, tested over 80 meters performed on site by customers

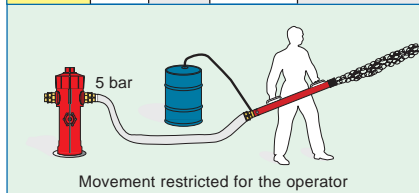


Foam branchpipe in stainless steel

Low expansion, foam ratio 1:8.



Cod.	With foam mixer			
	size	Lt' 5bar	type	Jet mt
82112	2"	200	low	10 - 16
82114	2"	400	low	10 - 16

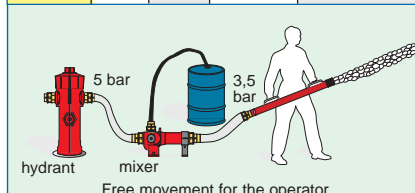


Supplied 2" BSP, with storz, bss, other coupling on request

Low expansion, foam ratio 1:8.



Cod.	Without foam mixer			
	size	Lt' 3,5bar	type	Jet mt
82212	2"	200	low	10 - 16
82214	2"	400	low	10 - 16



Medium expansion, foam ratio 1:70



Cod.	con o senza miscelatore			
	size	Lt'	type	Jet mt
82122	2"	200	medium	5 - 8
82124	2"	400	medium	5 - 8
82222	2"	200	medium	5 - 8
82224	2"	400	medium	5 - 8

With mixer

Without mixer

With 200 liters of solution
194 liters of water and 6 lt of foam (3%)
in 1 minute we produces 14 mc of foam.

Made in stainless steel couplings Storz or BSS 336 or others.

Epoxy paint finish in yellow polyurethane.

Low expansion foam branchpipe have the advantage of a jet longer and may be used with any type of foam.

Medium expansion foam branchpipe can produce expansion ratio 1:70 only with synthetic foam.

Both may have built the mixer, economical alternative.

Mixer separated offers greater freedom of movement.

All are individually tested carefully.

The flow rate in liters' calculated at 5 bar from inlet of the mixer. The mixer and the foam branchpipe works only if they have the same flow rate.

Foam mixer "Venturi"

The minimum working pressure is 3,5 max 12 bar, best 8 bar
supplied 2" BSP with Storz, or BSS coupling on request.

Cod.	Size	Lt' 5bar
81102	2"	200
81302	2"	400

Fix suction 3% or 6% in lega leggera.
Supplied complete with suction pipe 81012
Prefixed with suction at 6%

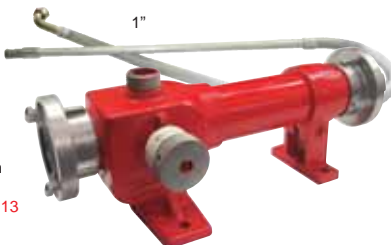
Available on request high flow rate up to 800 lt/min

Made in aluminium.



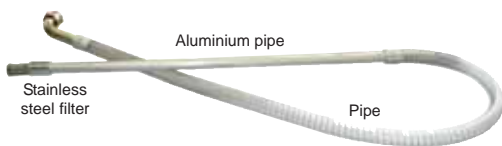
Cod.	DN	Lt' 5bar
81201	45	200
81401	70	400

Adjustable foam mixer from 1% to 6%
Necessary if use different types of foam
with concentrations 1%, 3%, 6%.
Supplied complete with suction pipe 81013



Suction pipe 1,2 mt with stainless steel filter

81012 3/4" F



81013 1" F

Stainless steel filter
Pipe

The mixers work on the Venturi principle.

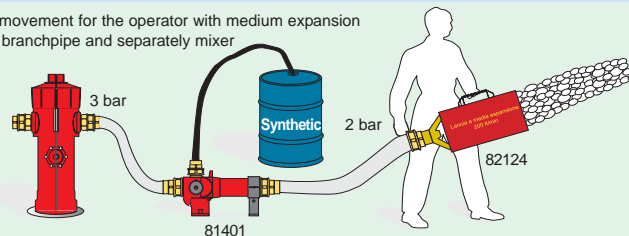
Suitable for use with branchpipe and foam generator at both low and medium and high expansion.

The flow produces suction and mixing effect "Venturi"

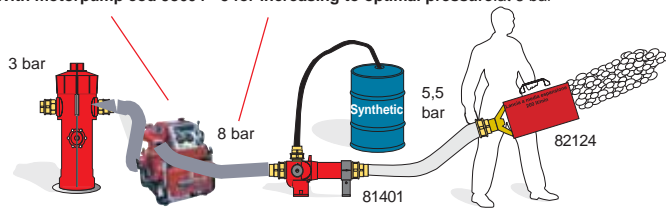
The minimum operating pressure is 3.5 bar, best 8 bar, while the drop loss and about 30% of supply pressure of the water.

The brass model allows adjustment of foam from 1% to 6% and is recommended only for professionals when need both synthetic and protein use that have different concentrations 1%, 3%, 6%.

Free movement for the operator with medium expansion foam branchpipe and separately mixer



With motorpump cod 98604 - 5 for increasing to optimal pressure at 8 bar



Cabinet foam set

84001

Essential in activities with high-risk .

Has the same characteristics of the mobile foam.

The set foam is mounted in a fixed location on the wall and is quick to intervene.

Foam compound autonomy is 6 minutes.

Complete with:

n° 1 Box in steel painted with epoxy powder Red Ral 3000.

n° 1 200 lt/min low expansion foam branchpipe 1" 1/2

n° 1 200 lt/min medium expansion foam branchpipe 1" 1/2

n° 1 Water branchpipe 3 effects 1" 1/2

n° 1 Mixer 1" 1/2 complete with coupling

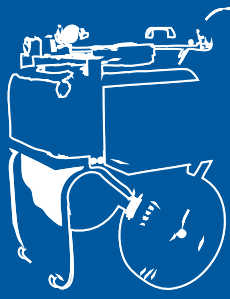
n° 1 20 mt hose 1" 1/2 Couplings Storz C52 (other types on request)

n° 2 Drum of 25 Lt synthetic foam

Flow rate 200 Ltm 5 bar



On request 2" 1/2



FOAM

MOBILE FIRE UNIT

**100 LT
FOAM**

CE 1370
Directive
97/23/EC

EFESTO mobile foam unit is our brand new professional fire fighting tool, perfect for all those high risk situations, such as flammable liquid storages and wood/paper warehouses.

EFESTO's core is the 100 liters foaming liquid tank made in polypropylene, and everything is build around this: the system comprises a mixer, 2 high quality fire hoses, a low expansion nozzle (some models mount also a medium expansion nozzle), everything fitted in a strong and versatile structure which grants a proper handling. Water, coming from a pillar hydrant or from another similar source, passes through the mixer which, thanks to Venturi effect, it's able to draw the correct foaming liquid quantity and mix it with water: mixer is set to 3%, meaning that for every 100 liters of water, some models allow the suction to be adjust up to 6%.

EFESTO's models equipped with Synthetic and Universal AR foaming liquid, developed for a high level, professional use, are equipped with a medium expansion nozzle, designed to generate a 70:1 expansion ratio.

EFESTO is designed with DN 45 and DN 70 couplings: other standards available according to customer's request (STORZ, BSS.).

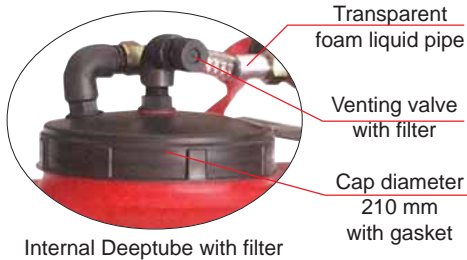


Cod. 80120

Models and Technical Characteristics

1 Nozzle, Low expansion models

Code	Coupling DN	Tank Capacity [L]	Foam type	Induction Rate %	Flow Rate [L/min.]
80120	45	100	AFFF	Fixed 3%	200
80120_1	70	100	AFFF	Fixed 3%	400
80120_2	45	100	Fluoro P.	Fixed 3%	200
80120_3	70	100	Fluoro P.	Fixed 3%	400
80120_4	45	100	Proteinic	Fixed 3%	200
80120_5	70	100	Proteinic	Fixed 3%	400



Internal Deeptube with filter



Draining Cap 1 1/4"

Low expansion branchpipe

Medium expansion branchpipe



2 Nozzles, Low & Medium expansion models

Code	Coupling DN	Tank Capacity [L]	Foam type	Induction Rate %	Flow Rate [L/min.]
80120_6	45	100	Synthetic	Adjustable 3-6%	200
80120_7	70	100	Synthetic	Adjustable 3-6%	400
80120_8	45	100	Universal AR	Adjustable 3-6%	200
80120_9	70	100	Universal AR	Adjustable 3-6%	400

Minimum working pressure 3,5 bar, recommended working pressure 5/12 bar
-If water pressure is below 3,5 bar is suggested the use of, a online motorpump, codes 98604 or 98605.

Standard components:

- 10 mt fire hose (to connect EFESTO to water supply)
- 10 mt fire hose (to connect EFESTO to low/med. expansion nozzle)
- 1 foam mixer
- Low expansion nozzle
- Medium expansion nozzle (only some particular models)
- Foaming liquid tank and steel structure
- Universal spanner

Weights and Dimension

- Height : 1000 mm
- Width : 800 mm
- Depth : 1100 mm
- Wheels diameter : 400 mm
- Weight : 160 kg

4

EFESTO

Foam mobile unit



Indispensable in sites where are stored great quantities of materials such as wood, paper, fabrics, plastic, rubber, oils. It is connected with a fire hose to a landing valve or a pillar hydrant.

The foam mixer works with a venturi principle so that the flow creates a vacuum and the foam is inducted and mixed with the water.

The percentages of the foam compound is 3% or 6% and remaining 97% or 94% is water.

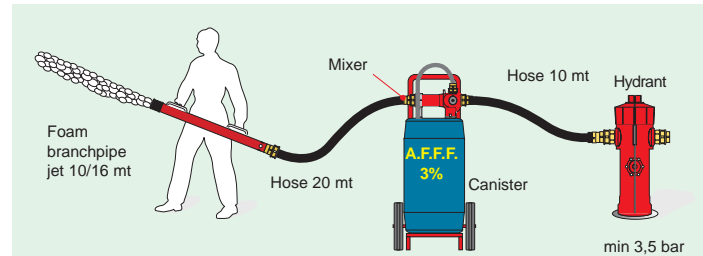
It is a very powerful unit.

With a 200 Lt of foam compound can have almost 30 min of discharge time covering high risk.

It is an equivalent of more than 120 trolley fire extinguisher of 50 Lt capacity.

Best performance achieved with W.P 8 bar. Works at minimum W.P. 3,5 bar.

Powerful, up to 400 cubic meters of foam in 30 minutes! the unit of 200 Lt it cover an area of 4000 square meters producing a blanket of 10 cm medium expansion foam.

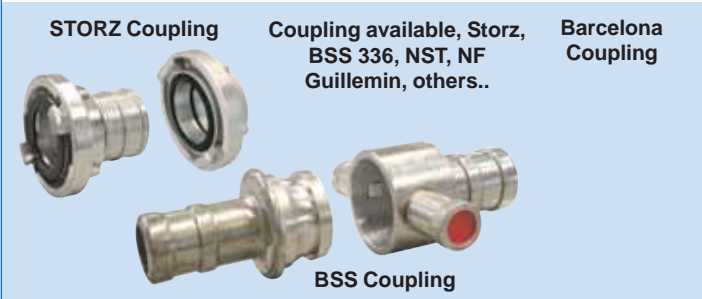


Foam floats over flammable liquids, it insulate the burning surface with air. Foam AFFF creates a thin film over the flammable liquids preventing the contact with the air and therefore preventing reignition after the extinction.

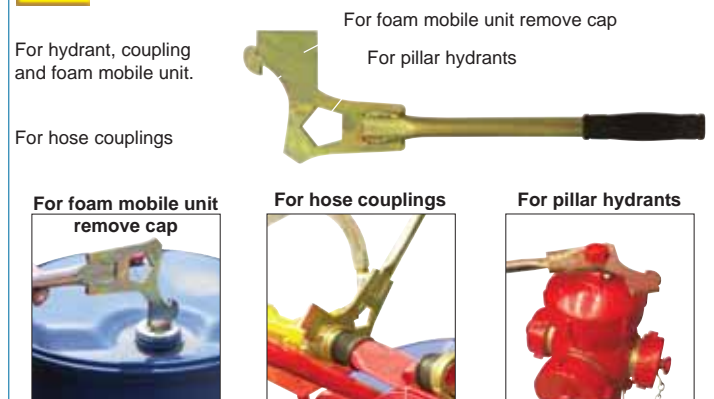
Low expansion branchpipe has a expansion ratio 1:8 and a long jet, useful if fire is strong and operator need better protection in his action. Medium expansion branchpipe has a reduced jet but it has an expansion ratio of 1: 70 and is used with synthetic foam to fight fires in distance 5 / mt in very short time.

The unit is supplied with:

- n° 1 10 mt hose connection between hydrant and mixer
- n° 1 20 mt hose connection between mixer and foam branchpipe
- n° 1 Mixer (Venturi effect)
- n° 1 Stainless steel foam branchpipe
- n° 1 Trolley and foam.



80003 Universal



Cod.	DN	Litres	Foam type	Type branch Expansion	3% / 6% Min'	3% / 6% M3 foam	Jet mt 5 / 8 bar
80111	1 1/2"	100	AFFF	Low	16' / 8'	24 / 12	10 / 16
80121	1 1/2"	200	AFFF	Low	30' / 15'	48 / 24	10 / 16
80114	2"	100	AFFF	Low	8' / 4'	12 / 6	10 / 16
80126	2"	200	AFFF	Low	16' / 8'	24 / 12	10 / 16
80112	1 1/2"	100	Proteinic	Low	no / 8'	no / 12	10 / 16
80122	1 1/2"	200	Proteinic	Low	no / 16'	no / 24	10 / 16
80115	2"	100	Proteinic	Low	no / 4'	no / 6	10 / 16
80124	2"	200	Proteinic	Low	no / 8'	no / 12	10 / 16
80211	1 1/2"	100	Synthetic	Medium	16' / 8'	200 / 100	5 / 8
80221	1 1/2"	200	Synthetic	Medium	30' / 15'	400 / 200	5 / 8
80212	2"	100	Synthetic	Low	8' / 4'	200 / 100	10 / 16
80222	2"	200	Synthetic	Medium	16' / 8'	400 / 200	5 / 8
80213	1 1/2"	100	Synthetic	Low	16' / 8'	24 / 12	10 / 16
80223	1 1/2"	200	Synthetic	Low	30' / 15'	48 / 24	10 / 16
80113	1 1/2"	100	Universal	Low/Medium	16' / 8'	24 / 12	10 / 16
80117	2"	100	Fluoroprot.	Low	8' / 4'	12 / 6	10 / 16
80116	1 1/2"	100	Fluoroprot.	Low	16' / 8'	24 / 12	10 / 16
80123	1 1/2"	200	Universal	Low/Medium	30' / 15'	48 / 24	10 / 16
80125	2"	200	Universal	Low/Medium	16' / 8'	24 / 12	10 / 16

FOAM PORTABLE APPLICATOR RINA TYPE APPROVAL

- 82600** Foam portable applicator 20 Lt
Rina Med Approved
Equipped with:
- Tank capacity 20 LT.
 - Foam branchpipe
 - Fire hose (on request)
 - Spare foam liquids (on request)



Trailer for foam drum and monitor

Characteristics

- Trailer material : Carbon steel
- Typology : Single-axle trailer
- Drum positioning : Vertical
- Flanged connection for monitor
- Working deck
- Removable side supports for easy insertion and removal of drums
- Pneumatic tires
- Final coating: Polyurethanic red coat
- Foam casing suitable for foam 200 lt foam drum.

Executions on request

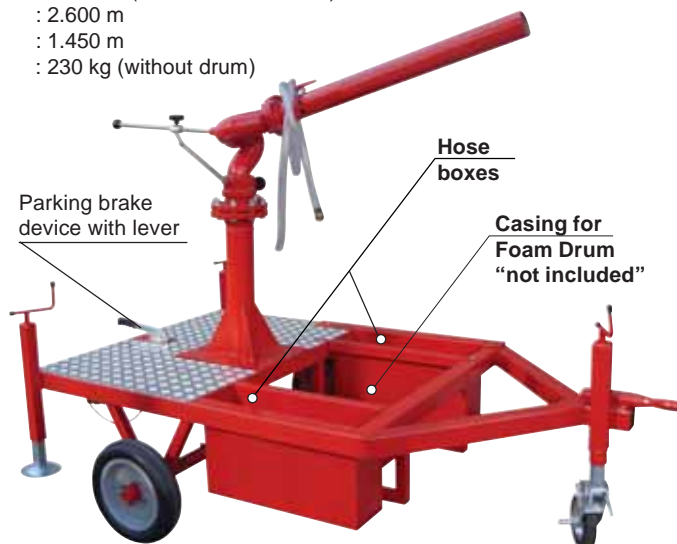
- Painting cycles on customer's request
- Hot dip galvanized trailer frame
- Triple way feeding
- Solid tyres

Dimension

- Height "H" : 1.150 m (Monitor not included)
- Width "L" : 2.600 m
- Depth "P" : 1.450 m
- Weight : 230 kg (without drum)



Feeding
Double way
with internal clasp



4

Trailer for monitors with steel foam tank

Characteristics

- Trailer material : Carbon steel
- Cylinder material : Carbon steel or Stainless Steel
- Typology : Single-axle trailer
- Flanged connection for monitor.
- Front Working deck.
- Pneumatic tires
- Final coating : Polyurethanic red coat

Executions on request

- Painting cycles on customer's request
- Hot dip galvanized trailer frame
- Triple way feeding
- Solid tyres

Code

- 82048_05** 500 lt Steel cylinder
- 82048_10** 1.000 lt
- 82048_15** 500 lt **Stainless steel cylinder**
- 82048_20** 1.000 lt

Dimension	500	1.000
Height "H"	: 1.080 m	1.230 m
Width "L"	: 2.600 m	3.100 m
Depth "P"	: 1.550 m	1.550 m
Weight	: 450 kg	515 kg



Feeding
Double way
with internal clasp



Mobile foam monitor

Made in according to custom specification , with foam stainless steel tank, mobile for high-risk areas.



Trolley with monitor 2 1/2" or 4" manifold with 4 inlet. Equipped with brakes, lights, foot stabilizers.



Trolley with tank 800 lt complete with foam monitor, equipped with brakes, lights, foot stabilizers.

Trolley with tank 800 lt manifold with 4 inlet, complete with foam monitor, equipped with brakes, lights, foot stabilizers.

Pyrokey® Sealfire Class F

Kitchen and restaurant Fire Extinguisher

Heavy greases and sticky smokes, continuously accumulates inside the aspirating ducts, on filters and on exhaust fan of kitchen hood, are a real potential fires hazard point.

Any small sparks, caused by fans or if aspirated from the cooking top, could break out an unexpected fire inside the ducts; this fire is practically unreachable with standard and usual portable extinguishers that are also considered ineffective on such greased film extended inside the air ducts lengths.

As before said, it is inconceivable to the use of portable powder, CO2 extinguishers due the inefficiency on these kind of extinguishants.

Pyrokey is the special formulated product to be used in all kitchen fires. Our system is pre-engineered, automatic and it can be equipped with a control panel (optional) powered 220V 50/60Hz and rechargeable battery 12V, with optical LED and sound bell.

Pyrokey is a water based product premixed with some chemical additives;

it has a fast cooling effect on the burning area, the fat / grease material will be soaked by Pyrokey and its reactions forms a thick heat resistant foam layer that stops and prevents the combustion.

After intervention, Pyrokey is easy to remove, washing the area using water only.

Pyrokey is the safe product adopted by major fast-food networks and hotels.

In most countries all communities and restaurants is compulsory to protect their kitchen.

Pyrokey unit has a quick installation and very simple maintenance.

Foam mixture, a special formula for "class F" fires, must be replaced every 10 years only.

Pyrokey system can be activated manually or automatically.

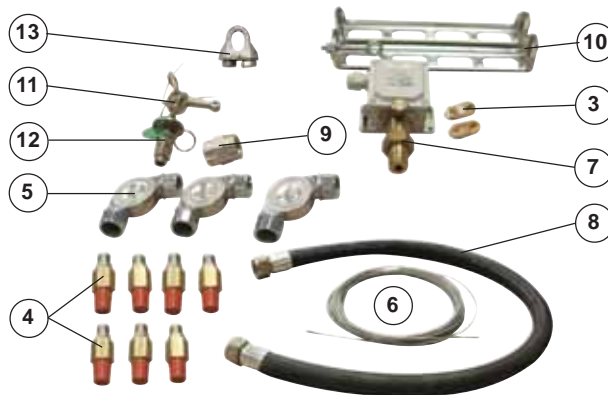
It stops automatically the main gas supplying LPG to the kitchen system.



Cod.	Capacity Lt	Dimension cm			Max Q.ty nozzle Supported
		A	B	C	
15401_9	9	34	30	96	7
15401_12	12	34	30	96	7
15401_18	18	34	30	126	10
15401_30	30	41	36	153	15
15401_60	60	49,5	45,5	169,5	28



PACKAGES SYSTEM INCLUDES:



- 1) Cabinet "LUXURY";
- 2) Cylinder filled with Sealfire class F complete with valve;
- 3) Fusibles link set 138°C;
- 4) Spray nozzles with filter and protection cap;
- 5) Pulley
- 6) Wire steel;
- 7) Pressure switch;
- 8) Hose;
- 9) Coupling 3/8" FF;
- 10) Fusible link bracket U.L.;
- 11) Manual actuator;
- 12) Valve actuator;
- 13) Fusible clamp;

OPTIONAL ACCESORIES

97199 Control Panel



Solenoid valve



Remote pull cable



97199 Control panel with rechargeable battery 12V - 2Ah including voltage transformer (from 230V to 12V);

- Connection for solenoid valve or Electric actuator;
- Red light indicate that circuit is operative;
- Green light indicate that electric actuator is operative;
- Red light indicate that extinguishers has been discharged.

470.... Solenoid valve 230 Vca or 12/24 Vcc, 1,5A shut OFF for GAS LPG Diameter available: 1/2" - 3/4" - 1" - 1 1/2" - 2";

41006 Remote manual pull actuator permits quick, sure manual actuation of the system by anyone regardless of fire fighting experience. It is equipped with a manual actuator, remote pull cable, pull box and a break rod indicating manual system operation. The remote manual pull actuator should be mounted at a point of exit and positioned at a height determined.

Container Units by "GLORIA"

GLORIA offers an individual container solution with efficient fighting effectiveness.

This is the particular requirements of the hedged fire hazards will be customized.

Fittings, hoses and fire guns are tailored to the particular quenching medium and optimized.

There are three fire on this building platform media:

FOAM - POWDER - CARBON DIOXIDE.

The special feature of the quenching container LC 250 is including its dimensions 80 x 110 cm.

This allows this nimble to maneuver on steerable wheels mounted container through every door and DIN standard for buildings, factories, industrial plants, etc. for the preventative and protective fire protection ideal.

Fire extinguishing container on wheel castors (cartridge) with 250 kg ABC dry powder.

Easily maneuverable containers, which by -DIN- fits standard doors.

Steel platform with fiberglass hood, retro-reflective marking, detailed control panel drying, fire shutters, braking casters.

A heavy-extinguishing tanks including pressure relief valve in the tank top.

Includes an erasable medium optimized fast attack gun, ergonomic design, switched off.

With a scrolling form stable hose 30 m. Hose reel rückkurbar.

The powder extinguishing agent is foam-friendly makes it well suited for combined foam-powder-use!



Extinguishing container

- 250 kg ABC powder.
- Cartridge operated (N2).
- According to PED; CE compliant.
- With safety valve and with pressure gauge.
- With operation panel.
- With quick action device through two rotating hose reels, each with 25 m inherently high pressure hose with suppressible pistol and with hand crank.
- 690 kg gross weight.
- **Dimensions:** 1010 x 1350 x 1150 mm (W x H x D)

Extinguishing container in a container

- 250 kg ABC powder.
- Cartridge operated (N2).
- According to PED; CE compliant.
- With safety valve and with pressure gauge.
- With operation panel.
- With quick action device through two rotating hose reels, each with 25 m inherently high pressure hose with suppressible pistol and with hand crank.
- 650 kg gross weight.
- **Dimensions:** 1200 x 1350 x 800 mm (W x H x D)

Extinguishing container in a container

4



Extinguishing trailer

- 250 kg ABC powder.
- Cartridge operated (N2).
- According to PED; CE compliant.
- With safety valve and with pressure gauge.
- With Operation panel.
- With quick action device through two rotating hose reels each with 25 m inherently high pressure hose with suppressible pistol.
- Trailer with torsion-spring axle, adjustable brackets.
- 680 kg gross weight.
- **Dimensions:** 1620 x 1400 x 3200 mm (W x H x D)



Extinguishing container on wheel frame

- 250 kg ABC powder.
- Cartridge operated (N2).
- According to PED; CE compliant.
- With safety valve and with pressure gauge.
- With Operation panel.
- With quick action device through two rotating hose reels.
- 690 kg gross weight.
- **Dimensions:** 1010 x 1350 x 1150 mm (W x H x D)

Trolley fire extinguisher from 250 to 500 kg

Made in Italy  

Description	Cod.	
	19003	19004
Powder ABC kg	250	500
Lenght mm~	3.220	3.220
Witdth mm~	1.540	1.540
Height mm~	1.600	1.600
Weight kg~	500	1.150

Special model on request

Car or truck towed, equipped with lights, flashing lights indicators, brake lights.

Plug with repeating signals to the car.

The cylinder is made in according to PED 97/23

and "CE" marking. Complete with two boxes

galvanized steel, hose mt 10 for powder

discharge and complete with interception

machine gun: **discharge rate 2 kg/sec.**

Unique system allow immediate pressurization and constant pressure for all discharge time with almost zero residual. Complete with valve for internal cleaning of dry powder hoses after use or in case of partial discharge. The trolley is made in zinc coated steel, with two wheels diameter 145 SR -10" or 6.70 - 14".



Standard hook



Towing hook, on request



Pre-assembled skid pump and motor pump



Assembled in skid ready to install in pump fire station.

According to NFPA 20
Skid includes:
Jokey pump to maintain pressure.
Primary fire pump.
Diesel motor pump.
Start and stop pressure switch.
Automatic control panel.
Batteries controlled, automatic power supply.
Automatic starting of the motor pump in case of failure of primary pump or lack of electricity.
Manual emergency or for maintenance purpose.
Possibility to operate both pumps in parallel.

The horsepower and flow rate depends on the hydraulic software calculation.

Motorpump

Varios versions:
Standard models 800 or 1800 Ltm 8 bar
In and out coupling according to customer request.



4

Portable motorpumps

Cod.	Ltm	bar	Hp	Kg
98604	270	5	4	25
98605	400	7,5	5,5	28

Useful to increase the water pressure in order to be able to supply foam branchpipe or to increase the jet for the water branchpipe. Are self-priming. Honda engine, easy start.

Gasoline powered

On request other version

98604
DN 45 x DN 45



98605
DN 70 x DN 70



Rigid suction pipe and accessories

66914 Internal diameter : 102 mm
Lenght : 3 mt
Working temperature : -30°C +80°C



65100
DN 100 mm
Coupling
DN 100

98682
Strainer
or foot valve



Technical data are subject to modification for improvements without prior notice

Fire Fighting

The module firefighting motor pumps are composed of membrane and piston pumps, self-priming and assembled on a welded steel frame, protected by corrosion with epoxy coating. The fire hoses, axial power supply, are in zinc steel with retractable rewinding handle and block system.

The electric rewinding system is optional.

The motor pump is also supplied with full/spayed-jet switch gun.

The motor pumps can be supplied both with the traditional mixing system and the innovative FHP mixing system that allows a regular mixing, insensitive to head losses, whatever length, roughness and diameter of the delivery pipe.

The kit is finally equipped with a PRFV or STAINLESS STEEL 304 L or 316 L monolithic tank, whose capacity ranges between 200 to 600 litres, T-shaped and L-shaped.



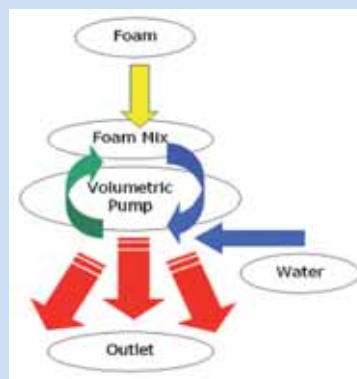
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AUTOMATIC ACCELERATION FOR MEMBRANE MOTOR PUMPS



Innovative and revolutionary system in the sector, the motor is accelerated only when the operator supplies water. Under this condition, the water saving (resource often lacking in the operation service), the personnel saving (one operator only per motor pump can intervene) and the energy saving (reduction of the motor fuel consumption) involve the success of the system.

The system can be assembled on pre-existing motor pumps too.



Motorpump	Flow l/min	Pressure bar	Motor gasoline hp	Motor diesel hp	Diameter pipe (2)	Pipe material
01 B/D	50	40	9	10	10X17 (3/8")	R1/PVC
02 B/D	70	40	9	10	10X17 (3/8")	R1/PVC
03 B/D	80	50	13	12	13X19 (1/2")	R1/PVC
04 B/D	100	50	13	12	13X19 (1/2")	R1/PVC
10 B/D	42	100	13	15	10X17 (3/8")	R1
11 B/D	42	150	18	19	10X17 (3/8")	R1

Hose diameter more or equal to 12 mm according to EN 1947



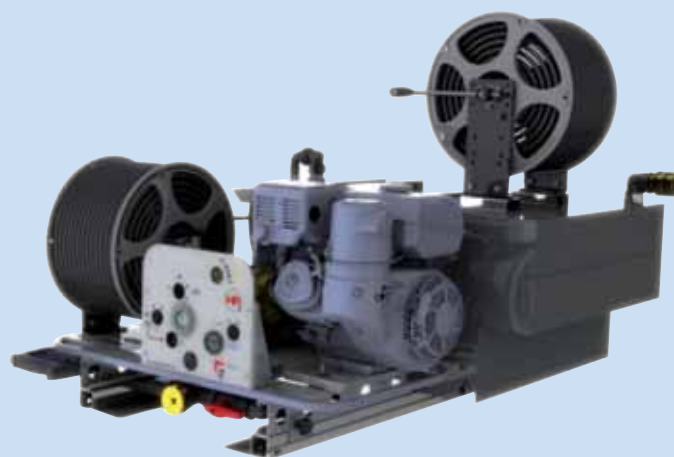
Technical data are subject to modification for improvements without prior notice

FIREFIGHTING MODULES WITH FIBREGLASS TANK

Thanks to PRFV tanks, on average the module weights about 50% less than the tanks produced with other materials (stainless steel), allowing a less load on the vehicle and the possibility of increasing, for the same weight, the litre capacity of the same tank.

The mix of fibre glass and resin fabrics, manufactured through modern technologies, guarantees better solidity and resistance in comparison to other materials, being, at the same time, easier to be repaired (the same technology can be used for race cars, regatta sailing boats and airplanes).

Cylinder	Capacity Lt	T Shape	L Shape	C Shape
010	100			X
020	200			X
030	300			
035	350	X	X	
040	400	X	X	X
045	450	X	X	
050	500	X	X	
055	550	X	X	
060	600	X	X	
065	650			
080	800			X
100	1000			X
125	1250			X
150	1500			X
200	2000			X
250	2500			X



4

FIREFIGHTING MODULES WITH STAINLESS STEEL 304 L - 316 L CYLINDER

304 L and 316 L stainless STEEL tank with thicknesses up to 15/10 and 25% weightreduction in comparison to tradition tanks.

The surface treatment is performed withpickling in acid bath and sheet metal engine turning.

Cylinder	Capacity Lt	T Shape	L Shape	C Shape
010	100			X
020	200			X
030	300			X
035	350	X	X	X
040	400	X	X	X
045	450	X	X	X
050	500	X	X	X
055	550	X	X	X
060	600	X	X	X
065	650			X
080	800			X
100	1000			X
125	1250			X
150	1500			X
200	2000			X
250	2500			X



GUARD, Control panel 2 detection zone, 1 extinguishing channel

47014 Control panel 2 detection zone, 1 extinguishing channel

Conventional fire-detection control panel series offers a 2 zone non-expandable. The extreme compactness, trouble-free installation, uncomplicated programming procedures and simple end-user operation make this highly competitive control panel ideal for all small and medium applications, especially those applications where fast installation and programming are among the most important aspects of the system. The numerous functions (timers, equational logic, etc.), extensive flexibility (automatic output balancing, multifunction inputs, customizable outputs, gas function integration, etc.), provide the tranquillity of knowing for sure that this powerful tool is capable of satisfying every need of every type of installation.

System information is provided through the graphic display and LEDs on the control panel frontplate. These repeater panels replicate all the fire alarm system data and allow users to access and control the system in accordance with their authorized access level.

- Conventional fire-detection control panel.
- Certified EN54 / EN54-2
- Certified EN12094-1 (Fire extinction)
- Supports up to 32 devices per zone
- Manages Fire Extinction board (Function EN12094-1 Approved)
- Mains power supply 230Vac
- Switching power supply/battery charger 1.4A @ 27.6Vdc
- Battery housing for two 7Ah - 12V batteries (**not included**)
- Dimensions (HxWxD): 325x325x80mm
- Weight (without batteries): 3Kg



47002 12V 7Ah single

47014_1 Extinguishing board 1 zone

Fire extinction board.

Addition of a SmartLetLoose/ONE fire suppression board to any control panel provides the system with GAS suppression control capabilities in compliance with EN12094-1.

47014_1 enhanced control panels provide all the functions required by the applicable normative and are capable of managing all devices required for fire extinction system management.



4

GUARD, Control panel 4 detection zone expandable up to 20

47054 Control panel 4 detection zone expandable up to 20

Conventional fire-detection control panel series offers a 4 zone expandable up to 20. The extreme compactness, trouble-free installation, uncomplicated programming procedures and simple end-user operation make this highly competitive control panel ideal for all small and medium applications, especially those applications where fast installation and programming are among the most important aspects of the system.

The numerous functions (timers, equational logic, etc.), extensive flexibility (automatic output balancing, multifunction inputs, customizable outputs, gas function integration, etc.), provide the tranquillity of knowing for sure that this powerful tool is capable of satisfying every need of every type of installation. System information is provided through the graphic display and LEDs on the control panel frontplate. These repeater panels replicate all the fire alarm system data and allow users to access and control the system in accordance with their authorized access level.

- Conventional fire-detection control panel.
- Certified EN54 / EN54-2
- Certified EN12094-1 (Fire extinction)
- Manages Fire Extinction board (Function EN12094-1 Approved)
- Mains power supply 230Vac
- Switching power supply/battery charger 4A @ 27.6Vdc
- Battery housing for two 17Ah - 12V batteries (**not included**)



- Dimensions (HxWxD): 325x325x80mm
- Weight (without batteries): 3Kg

47054_1 Detection board 8 zone

8 zone expansion board equipped with an additional supervised output.



47002_1 12V 17Ah single

GUARD, Control panel 4 detection zone expandable up to 36

xxxxxx Control panel 4 detection zone expandable up to 36

Conventional fire-detection control panel series offers a 4 zone expandable up to 36. The extreme compactness, trouble-free installation, uncomplicated programming procedures and simple end-user operation make this highly competitive control panel ideal for all small and medium applications, especially those applications where fast installation and programming are among the most important aspects of the system.

The numerous functions (timers, equational logic, etc.), extensive flexibility (automatic output balancing, multifunction inputs, customizable outputs, gas function integration, etc.), provide the tranquillity of knowing for sure that this powerful tool is capable of satisfying every need of every type of installation. System information is provided through the graphic display and LEDs on the control panel frontplate. These repeater panels replicate all the fire alarm system data and allow users to access and control the system in accordance with their authorized access level.

- Conventional fire-detection control panel.
- Certified EN54 / EN54-2
- Certified EN12094-1 (Fire extinction)
- Manages Fire Extinction board (Function EN12094-1 Approved)
- Mains power supply 230Vac
- Switching power supply/battery charger 4A @ 27.6Vdc
- Battery housing for two 17Ah - 12V batteries (**not included**)



- Dimensions (HxWxD): 497x380x87mm
- Weight (without batteries): 6Kg

47054_1 Detection board 8 zone

8 zone expansion board equipped with an additional supervised output.



47002_1 12V 17Ah single

Conventional GUARD Detector

47049_1 Smoke and Heat detector with base



The smoke and heat detector has new smoke and temperature sensing technologies. As a result, this improved-reliability detector responds well to all types of fires (especially to fast burning blazing fires involving inflammable liquids, which produce a limited amount of smoke) and is highly immune to false alarms. The smoke and heat detector can be set to the sensitivity mode which best suits the application (by means of 47058 driver).

Operating voltage: 10-30Vdc

Operating temperature: -5°C +40°C

Diameter 110 mm - Weight (without base):90g

47012_1 Optical smoke detector complete with base



The optical smoke detector is based on the Tyndall effect (diffusion of light) and provides first-rate early warning in the event of fire. It offers wide-spectrum detection of smoke particles generated by the majority of fires. The newly designed optical chamber with sealed upper-part and 500 µm holes diameter mesh insect screen ensure high immunity to false alarms. The sensitivity can be configured to suit a wide range of applications (sensitivity configurable as: 0.08dB/m; 0.10dB/m; 0.12dB/m; 0.15dB/m).

Operating voltage: 10-30Vdc

Operating temperature: -5°C +40°C

Diameter 110 mm - Weight (without base):90g

47013_1 Heat detector complete with base



The response characteristics of the heat detector have been carefully set in A1R mode (fixed threshold at 58°C with thermovelocimetric detection).

However, it can be set (by means of 47058 driver) to operate in B mode (fixed threshold at 72°C); in A2S mode (fixed threshold at 58°C); in BR mode (fixed threshold at 72°C with thermovelocimetric detection). As a result of such flexibility, this detector is useful in places where the environment is dusty or smoky and the risk of false alarms is high.

Operating voltage: 10-30Vdc

Operating temperature: -5°C +40°C

Diameter 110 mm - Weight (without base):90g

47056 Smoke detector battery operated

Specially designed for domestic applications and EN14604:2001 compliant.

Alarm LED, sounder and Output.

Battery operated 1 da 9 V.

Battery life minimum 12 months

Self-employment, requires no additional power supply or control unit.

Ideal for unattended premises, such as attics, closets, etc.



47057 Remote indicator

Remote indicator. LED repeater replicates the alarm signal of a detector in alarm status.



Configuration, maintenance and diagnostics system

47058

The 47058 kit comprises an EDRV1000 driver and FireGenius software. The kit lets you to take full advantage of all the unique features of the Versa++ technology integrated into IRIS series conventional detectors. The 47058 allows you to configure each detector to suit its specific environment. It also permits you to connect directly to the detector line for a complete diagnosis of each device and thus test its operating capacity, verify its real-time values, read the contamination level in the optical smoke chamber and change its sensitivity and operating mode. Each detector has a non-volatile memory which allows you to read the smoke and temperature levels measured in the period prior to the last alarm detected.

The EDRV1000 driver (included in EITK1000 kit) is capable of operating autonomously by way of its internal battery, keypad and display.

When the EDRV1000 driver is connected to a PC, it is powered through the USB port, in this way, it is possible to make full use of the FireGenius software application. By means of an intuitive graphic interface, FireGenius allows you to interact with detectors, configure them, view their status and check the course of their real-time smoke/temperature levels. The EITK1000 is the professional tool which will make your life a whole lot easier when it comes to system maintenance. The EITK1000 comes with a 24Vdc power supply, essential cables and software application CD, all contained in a handy pouch.



Suitable for detector model GUARD



Control panel 3 detection zone, 1 extinguishing channel

47010 Control panel for detection zone and extinguishing channel

Conventional fire control panel three lines that can control a channel release with inert gases, CO2. Each line allows the connection of maximum 30 detectors, while the third line is configurable for sensors or call points. Relay output for warning, alarm, fault, release, finished evacuation, disabled or fault.

Two alarm outputs controlled.

Extinguishing channel programmable single or dual consense and discharge time programable up to 90 seconds with two separate circuits of activation, the second activated by an external manual control input. The control unit may, by key, set the release automatic and manual, only manual or disabled. CPD certified according to EN 12094-1:2003, 54-2 and 54-4.

Technical characteristics

Mains power supply 110-220 VAC.

Operating voltage 24VDC.

Power utilities 24 Vdc with current of 0.5 A and 0.2 A resettable.

Recharge two 12V 7Ah batteries.



CPD certified according to EN 12094-1:2003, 54-2 and 54-4.

Dimensions 382 x 357 x 94 mm

Conventional Fire Detection Panel

47010_1 Conventional control panel 4 detection zone

Control panel can support any conventional device like detectors, call points, sounders, beam detectors product range.

The panel provide 4 detection different zones to connect field Sensors and Manual Call Points.

It has four detection levels in normal operation which allow to differentiate if an alarm comes from a detector or call point or if the fault has been caused by an open circuit or a short circuit.

TECHNICAL CHARACTERISTICS

Number of zones : 4 Zones.

Max. detectors by zone : 32

Connection: Plug-in terminals for 2.5mm² cable

Power Supply : 230Vac +- 15% 50/60Hz

Batteries : 2x 12V/5.7Ah

ON REQUEST

- Keyswitch for Level 2 access

Mechanical Characteristics

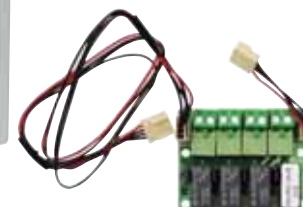
Dimensions (mm) 357 (h) x 382 (w) x 94 (d)

Weight 5Kg, without batteries.



47010_2

4-relay board
Programmable for conventional control panel.
Provides contacts NO or NC (1A 30 VDC resistive load)



24V power supply unit

47016

24Vcc 4 A + 1A power supply unit with box for additional power supply in fire detection systems. Signal LED on front panel. Relay output for fault signal and relay output for delayed power supply signal. CPD certified according to EN54 part 4 (A2) standards. 2 15Ah batteries charge.

ELECTRICAL SPECIFICATIONS

- Voltage: 230 Vac +10% ÷ -15%
- Frequency: 50 Hz sinusoidal.
- Current from mains: 1,1A max. full load.
- Output: 27,6Vdc (-15% ÷ +10%).
- Minimum voltage: 20Vdc full load, without mains and low batteries.
- Threshold voltage shutdown: 20Vdc.
- Current: 5A max.
- Max charging current: 2A.
- Max loads current: 3A.
- Capability to adjust for voltage fluctuation at full load (+10% ÷ -15%): better than 1%.
- Capability to adjust for loads variations (0 ÷ 100%): better than 1%.
- Temperature compensation: 4 mV/°K.
- Protection against battery polarity reverse: Diode.
- Recommended batteries: 2 x 12V in series, 17 Ah, housing with flammability class UL-94-V2 or greater, type: YUASA NP 17-12 o equivalent.
- Alarm threshold for internal battery resistance: 1Ω.
- Relais output: 25Vac or 60Vdc 1A MAX free voltage contact.



Rechargeable battery

47059 12V 17Ah single

47060 24V 17Ah (2x12V)

Dimensions 373 x 310 x 170.

Optical smoke and thermal detector

47049 Optical smoke and thermal detector

Optical smoke and thermal detector consists of an optical chamber sensitive to light scattering and a thermistor sensitive to heat.

Programmable sensitive through external device.

Ready for testing by remote control laser.

Alarm LED. Output for alarm repeater.

Possibility for addressing through additional module.

CPD Certificate in accordance with EN54 Part 5 and 7.

Operating voltage: 8-30Vdc

Operating temperature: -20°C +60°C

Diameter 102 mm - Weight (without base):75g

Relative humidity up to 95% non-condensing.



Optical smoke detector

47012 Optical smoke detector

Optical smoke detector consists of an optical chamber sensitive to light scattering.

Programmable sensitive through external device.

Ready for testing by remote control laser.

Alarm LED. Output for alarm repeater.

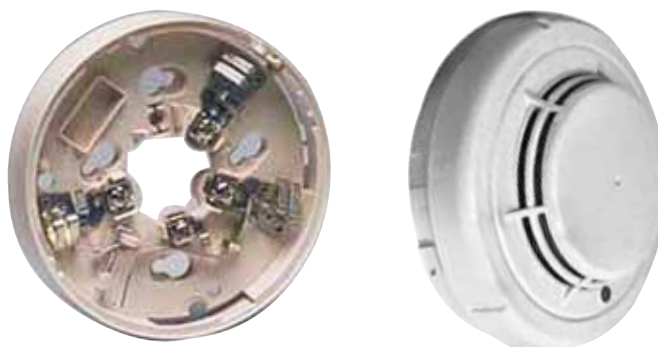
Possibility for addressing through additional module. CPD Certificate in accordance with EN54 Part 7. 8

Operating voltage: 8-30Vdc

Operating temperature: -20°C +60°C

Diameter 102 mm - Weight (without base):75g

Relative humidity up to 95% non-condensing.



Rate-of-rise detector

47013 Rate-of-rise detector

Rate-of-rise detector consists of a double thermistor.

Alarm temperature set at 58°C.

Ready for testing by remote control laser.

Alarm LED. Output for alarm repeater.

Possibility for addressing through additional module.

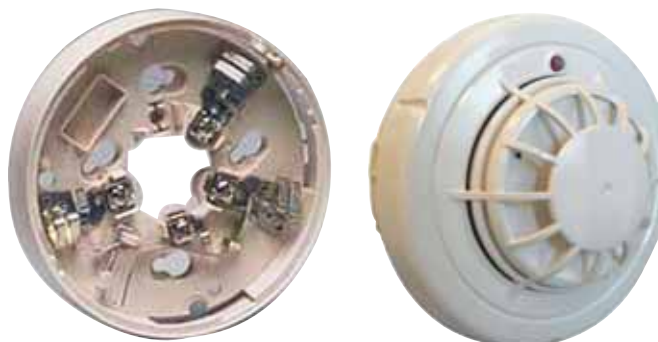
CPD Certificate in accordance with EN54 Part 5. 8

Operating voltage: 8-30Vdc

Operating temperature: -20°C +60°C

Diameter 102 mm - Weight (without base):75g

Relative humidity up to 95% non-condensing.



Optical repeater for detector

47024

Optical repeater for conventional and analog fire detectors. It combines small dimensions, high efficiency and low consumption.

The repeaters are controlled and powered directly by detectors.

In analog systems is possible to take external power from communication loop.

The repeater, placed outside of a room protected by fire detector, allow the early location of the alarm condition.

Repeater can be mounted in wall, ceiling mounting or flush mounting.

Current: 9,5mA @3,7Vdc



Dimensions: 70 x 35 x 23 mm.

Rechargeable battery

- 47000 12V 1,9Ah single
- 47001 24V 1,9Ah (2x12V)
- 47002 12V 7Ah single
- 47003 24V 7Ah (2x12V)



Push button for alarma and discharge

47050 Conventional push button

Push button box 1 contact with plastic cover
Conforme to EN 54.



47051 Manual push button

Glass in the plastic housing suitable for surface mounting. In the yellow version for extinguishing command. Made in accordance with the regulations.



47006 Conventional push button

Push button break glass alarm.
2 contacts n.o. and n.c. 10 A



Signal alarm

47041 Red bell with brackets 12/24Vcc

4 tones electronic sounder. CPD certified in accordance with EN54-3. Power supply 9-33Vdc. Consumption in alarm 11mA with continuous tone and maximum volume. Protection IP54 or IP66
Dimensions: 124 x 92 x 41,5.



47043 Red optical signal xeno 2 W

Strobe with 2W power and consumption 100mA in alarm. Power supply 9-33Vdc. Protection IP54 or IP66 used.
Dimensions: 124 x 92 x 70.



47047 Electronic bell 24Vcc

14 tones electronic sounder with strobe. CPD certified in accordance with EN54-3. Power supply 9-33Vdc. Protection IP54 or IP66.
Dimensions: 124 x 92 x 70.



47004 Electric bell 24Vcc

Steel, epoxy painted.
Current supply: 24 Vcc 80 mA
Dimensions: Ø 160 mm, depth 62 mm
Sound poweriness: 97 dB at 1 mt
Weight: 700 gr.



47007 Local alarm signal device

Built with LED technology assuring high light reflection and reliability over time.
Pictographs applicable on plates
Technical characteristics
Protection degree: IP 40
Dimensions (in mm): 360x150x70
Buzzer acoustic frequency: 3200 Hz
Max absorption: 100 mA
Flashing frequency: 1 Hz
Nominal supply voltage: 24 V (default) or 12V



47009 Electronic siren 24Vcc

Electronic siren fan model.
Made in ABS high resistance.
Sound power: from 98 dB at 1 mt
Current supply: 24 Vcc.



47040 Siren for premises evacuation

Red siren for premises evacuation in compliance with regulation 626/94 and 64/98. Two-tone alarm, xenon visual signalling, c/w battery.
Operation voltage: 230 Vac
Protection degree: IP 44
Sound pressure: 104 dB (A) at 3 mt distance
Acoustic frequency: 1500-2300 Hz
Operation temperature: -25°C/+55°C (13°F/131°F)
Assignable accumulator (not included): 12 Vcc 2,1 Ah



Dimensions (HxLxD): 265x210x65 mm
Weight: 2,1 Kg

47042 Siren for premises evacuation

Self-powered electronic sounder with strobe. Requires only one battery. CPD certified in accordance with EN54-3. Sound power 100 dB at 1 meter. Power 15-33Vdc. Operating temperature -25 ° C to +55 ° C. Degree of protection IP33C.
Dimensions: 330 x 210 x 115.



47018 Solenoid valve 1/2" 12 V DC shut off for LPG gas system

Safety electrovalve for GPL with manual rearmement.
Used to shut off gas alimentation in emergency situations.
Current supply: 12 Vcc
Intervention time: 1 sec.
maximum work pressure: 550 mbar (8 psi)
Protection grade: IP 65
Flow: 6 m3/h



Temperature detector adjustable

47019 Temperature detector preset at 68° but adjustable from 58° to 300°

The apparatus consists of two contacts mounted on two curved strips of nickel-iron low expansion coefficient, the contacts are electronically isolated from the strips, however, a complex that is called "crew" is in turn mounted in stress

conditions in a sheath consisting of a tube extruded AISI. The magnitude of the voltage is variable, depending on the position of the screw, and by the temperature at which the sheath is taken.

The unit is calibrated to the desired temperature by turning the adjustment screw until the contacts separate.

Any change in temperature dilates the sheath, which thus increases the tension that it exerts on the plate, causing or breaking the contact, as appropriate.



Available
UL Listed 89°C

47038 Temperature detector preset at 141°

The 47038 series can be supplied with normally closed contacts NC (opening up for increase in temperature), with normally open contacts NO (close for temperature rise).



1/2"

Temperature detector adjustable ADPE

47020 Temperature detector 59° C adjustable 300°C EXPL PROOF

Maximum temperature detector, candle model, suitable for dirty and polluted rooms in ADPE version (anti-explosion).

Contact: NO 10 A
Model with calibration screw.

Standard calibration 68°C (155°F). On request calibrations just to 300°C (572°F).

Certified ATEX



Smoke detector infrared

47029 Smoke detector infrared

Linear infrared smoke detector composed by an emitter and a receiver that if the infrared signal is interrupted from the smoke presence, it send an alarm signal to the main control panel.
Maximum distance between emitter and receiver: 50 mt

Current supply: 24 Vcc

Dimensions: 103x103x63 mm



Certified
EN54 part 12

Thermosensible cable U.L./F.M.

Linear heat detector, (heat sensing cables) is a twisted double steel conductor cable with a special insulated sheath sensible to heat, wrapped with a protective tape, and overall surrounded with a special vinyl outer jacket (EPC) that has low moisture absorption, excellent resistance to UV radiation, and to a chemical agents (Gasoline, Ammonia, Methanol, Nitric Acid), and resistance to low temperatures (-40°C).

The cable is suitable for commercial / industrial application, and both for indoor / outdoor installations.

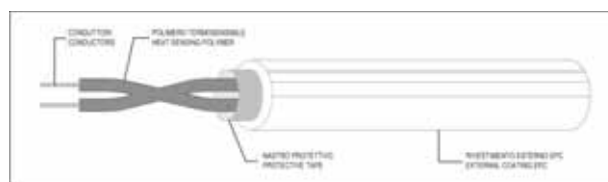
When intervention temperature has been reached, the insulation of the conductors, fuses.

Due to the twisted condition of the steel wires, there is the necessary mechanical strength to trigger immediately short circuit conditions.

Linear heat detectors, are normally used to control wide areas and/or structures, but, based upon their good performance, reliability and cost effectiveness, they can be used on each kind of installation, where a heat detection is requested.

By means of heat sensing cables, is possible to realize fire alarm systems, with the capability of command fixed extinguishing systems: linear heat detectors can be connected to all the electronic system for Fire Detection purposes.

Heat sensing cables can be installed in hazardous locations, where "ex" apparatus is required, with the insertion of power limiting devices (i.e. intrinsically safe barriers).



47033 Thermosensible cable at 105°C (Minimum 50 mt)

47034 Thermosensible cable U.L./F.M. at 88°C

47035 Thermosensible cable F.M. at 105°C

47036 Thermosensible cable U.L./F.M. at 137,8°C

Technical data

Alarm Temperature:	88°C - 190°F
Conductors material:	Steel
Conductor resistances:	~ 0.66 K /Km
Operative voltage:	42 Vdc, 30 Vac max.
Insulation materials:	Heat sensing
Outer jacket:	EPC
Overall cable dia:	~ 4 mm
Approval:	UL, FM

47044 Fixing base for cable thermosensible



Control panel for fire doors - Certified EN 5-2 and

79007 Control panel fire door

79007_1 Control panel fire door complete with: Battery, 2 Push button, electronic bell.

79007_2 Control panel fire door complete with: Battery,



The control panel 79007 has been designed and manufactured in accordance with regulations EN 54 Part 2 and Part 4 and is particularly suitable for small size fire detection systems.

This unit allows, once detected the fire, the release of electromagnetic, closing the fire doors.

In addition give, a signal alarm resettable manually.

It can handle up to 4 fire doors (4 electromagnetic) 5 smoke detectors / heat and 5-push button.

Main panel with LED to indicate operational status of the panel
2 Auxiliary provided by 2 12Vdc 1.1/1.3 Ah batteries.

La centrale gestisce:

- Smoke and thermal detector line
(max. 5 unit, compulsory, and supplied separately and EN54-5/7 certified)
- Push Button alarm remote control
(min. 2 unit, compulsory, and supplied separately and EN54-11 certified)
- Remote manual electromagnetic release button(s) line
- External alarm buzzer silencing/reactivation push button following alarm condition.

Output:

- Magnetic line (Up to n. 4 at 24Vdc - Max. 300 mA)
- Output connection up to 2 external electronic bell (additional electronic bell compulsory, sold separately and EN54-3 certified).
- 1 relay output on COM./N.O./N.C contacts (2 A) for external indication of out of order/fault status of the panel

Dimensions : 150 x 240 x 48 mm

Conformity : EN54-2 (control panel) and EN54-4 (alimentatore)

ATTENTION:

In base alla norma EN54-4 la centrale monozona deve essere obbligatoriamente dotata di:

- nr.1 Smoke detector or Thermal detector **47039_2 - 47013_2**
- nr.1 Rechargeable battery **47005**
- nr.2 Push button **47050**
- nr.1 Electronic bell **47041**

47049_2 Dual heat and smoke detector

Box in white ABS

Operating voltage : 24 Vdc (10,5 – 33 Vdc)

Operating temperature: - 20 to + 70 °C

Operational technology: optical, heat (in case of temperature rise, it growing their sensibility to detect the smoke)

Supplementary detector complete with base for ceiling mount, can be connected to article 52002

Compliance: EN54-7 (smoke)

Use: this dual optical and heat rate of rise detector triggers an alarm condition in case of smoke detection or heat and smoke detection



Dimensions (mm): 110 diameter x 54 height

47013_2 Thermal detector

Box in white colour plastic material

Operating voltage : 24 Vdc (10,5 – 33 Vdc)

Operational technology: heat rate of rise with trigger for increases greater than 30°C per minute.

Operating temperature: - 20 to + 70 °C

Supplementary detector complete with base for ceiling mount, can be connected to cod 79007

Compliance: EN54-5 (heat)

Use: this heat rate of rise detector triggers an alarm condition in case of detection of a rapid rise in temperature.



Dimensions (mm): 110 diameter x 54 height

47050 Push button box 1 contact

The buttons are equipped with a normally open contact and one normally closed. Approved in accordance with standard EN54-11.



Weight: 110 gr
Color: red RAL3001

47005 Rechargeable battery 12V 1.2 Ah



47041 Electronic bell 12/24Vcc

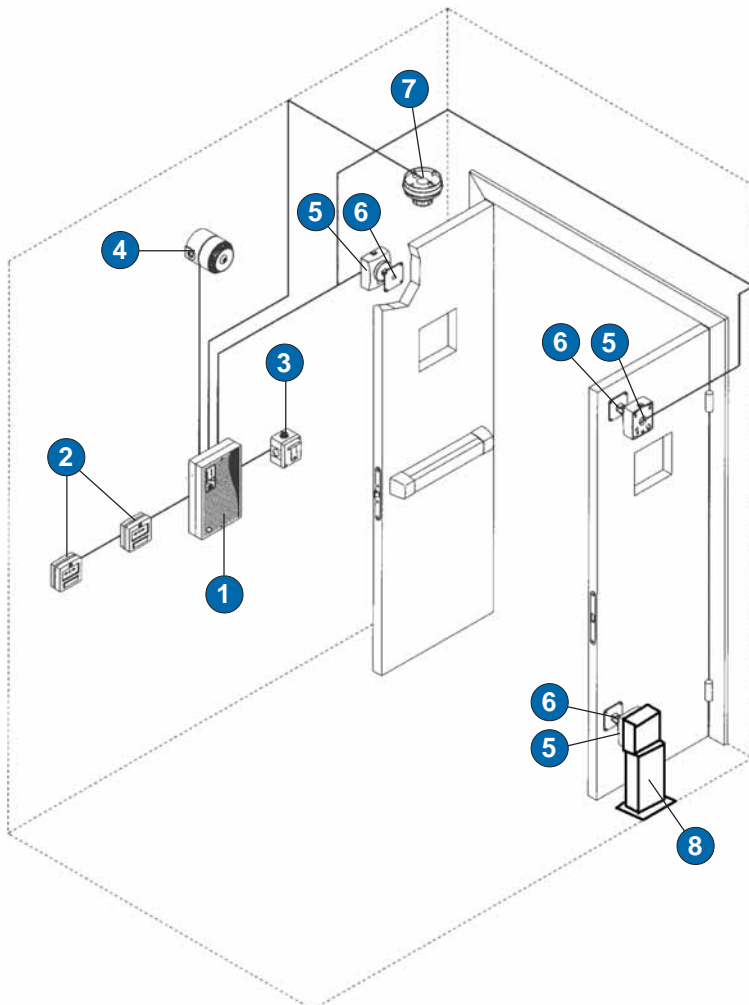
Electronic bell for rooms evacuation 4 different tones.

Power supply: 12/24 Vcc.

In according to EN-54-3.



Typical installation



Pos.	Description	Cod.	Pos.	Description	Cod.
1	Control panel	79007	5	Electromagnete	79007
2	Alarm button	47050	6	Swinging armature	47050
3	Switch button		7	Smoke detector	47049_2
4	Electric bell	47041	8	Telescopic brackets	79026-27

Telescopic brackets

Telescopic "wall" or "floor" mounting brackets for electromagnet.
 Column extendable by section (square mm) 40 x 40 for horizontal fixing to wall or vertical to floor of the fire door electromagnets.
 Body black painted steel.
 Plate for fixing of the electromagnets adjustable to 180°.

79026

Length 140 mm
 (Adjustable up to 220 mm)

79027

Length 218 mm
 (Adjustable up to 360 mm)
 for electromagnet cod.79002

Horizontal fixing to wall
 or vertical to floor



Horizontal fixing to wall



47070 Electronic bell

Box in red colour plastic material
 Operating voltage : 12 / 24 Vdc – 15 mA
 Sound power: Max 114 dB @ 24 Vdc
 IP rating: IP42
 32 tones selectable by internal dip switches.
 Compliance: EN54-3
 Use: electronic bell which can be used in conjunction with single zone panel
 Cod. 79007



Dimensions: mm. 92,5 diameter x 94 Height

79002 Hold open electromagnet

Box in black painted steel
 Operating voltage :
 24 Vdc / Absorbed current : 70 mA
 Holding force: > 140 Kg.
 Residual anti-magnetism pin on the electromagnet body
 Connector with anti-disturb varistor
 Provided without Armature plate
 With push button release
 Compliance: UNI EN 1155
 Use: hold open electromagnet for swing fire doors



Dimensions: mm. 85 x 75 x 35

79002_1 Swinging armature

Swinging Armature plate for electromagnets
 Base in galvanized steel
 Overall dimensions:
 65 x 65 of the base x h 54
 Armature plate diameter: 55



Dimensions: mm. 65 x 65 x 54 Height

FIRE DOORS REI 120

Certified fire resistance for 2 hours REI 120 .
 Available 1 hour REI 60 and 3 hours REI 180 Reversible for right or left
 open with a threshold removable sheet 'completely galvanized steel.

Epoxy polyester powder coating.
 Can be supplied in different colours and with anti panic bars, and
 other various accessories.



- Versions REI 120
- Reversible doors LX or RX
- Immediate delivery from stock
- Fix with anchors or expansion screws
- Adjustable hinges
- With or without bottom frame
- Preassembled



Cerniera dotata di spinotto a molla per l'autochiusura.



Ball-bearing hinge with screw for the vertical adjustment.



Zanca da murare.



Fast wall fixing with expansion screw.

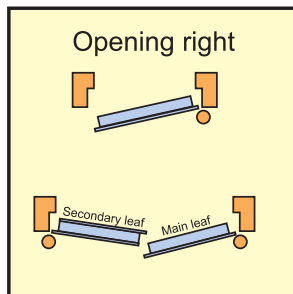
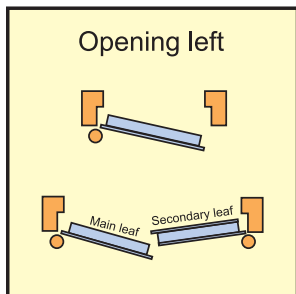
Safety handle



Bottom-part frame, removable.



Immediately delivery from stock



STANDARD DOORS REI 120 approved fire resistant 120 minutes

Code	Wall opening mm		clear passage mm		external size mm	
	width	height	width	height	width	height
72820	800	2050	726	2010	832	2042
72920	900	2050	826	2010	932	2042
72120	1000	2050	926	2010	1032	2042
72921	900	2150	826	2110	932	2142
72121	1000	2150	926	2110	1032	2142

7

Accessories for fire doors

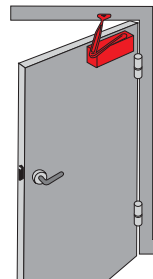
79005 Adjustable antipanic bar reversible DX e SX



79013 Lock complete with handle and cylinder for fire door.

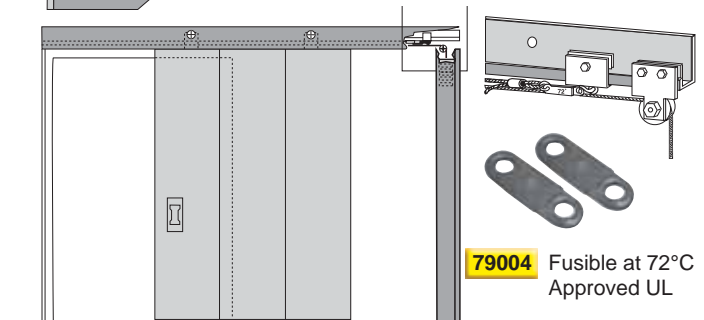


79001 Door shutter strong spring 150 kg



79009 Spring for fire doors

79010 Gasket for fire doors



79004 Fusible at 72°C Approved UL

Digital Force Gauges



79025 Digital Force Gauges

DESCRIPTION

Our digital portable dynamometers can measure the force weight, both in traction, both in compression, Alpha in three different scales: N, Kg, e lb. The instruments, retrofitted to operate on stators, are equipped with a full set of accessories easy to install (flathead adapter, conical, chisel, hook, extension) RS232 interface very intuitive and a resistant case where they can be stored and transported.

TECHNICAL CHARACTERISTICS

Measuring range	500N ~50Kg
Resolution	0,1N
Accuracy	±0,5%
Unit of measure	N/Kg/Lb
Display	LCD
Data output	Si
Power supply	ricaricabile
Load cell	Interna
Operating condition	5°C÷35°C
	15%÷80% RH
Dimensions	230x66x36mm

Working environment

- Keep away from vibrations

Additional features

- Hold peak function
- Automatic deletion of the peak value
- 888 memory allocations
- 5 selectable test modes
- Automatic gravity acceleration reset
- Setting maximum and minimum limits of tolerance
- Automatic conversion of the the measured value in 3 different scales
- Auto switch off
- Backlight display

Standard delivery

- 4 compression adapters
- 1 traction adapters
- 1 extension rod
- Cable USB & software
- Battery charger
- Carrying case
- Operation manual

Optional accessories

- Handle
- Clamps
- Test stands
- Certificate

Trolley tools for maintenance fire doors (empty)

79020 Trolley tools for maintenance fire doors (empty)

Modular system includes:

- Dimension 18" with two organizer inside
- Lid, tank and retractable handle.
- Metal hinges
- Fixed base single room with 18" pocket and external fabric
- Large and sturdy wheels to ensure stability on uneven surfaces
- Handle removable aluminum-intensive use
- Load capacity 40kg



7

79022 Suction Cup 210 mm Ø - over 150 kg vertical lifting capacity



With integrated manual pump. Diameter: 210 mm.
Aluminum-body.
A few pushes of the manual pump make the suction cup ready for use.
Weight: 1700 g
Vertical Lifting
Capacity: approx. 150 kg



79023 Small spatulas glass black.

Small spatula used to safely move windows and doors



79024 Big spatulas glass black.

Big spatula used to safely move windows and doors

79021 Raises doors scope 200 kg.



To lift with ease and security doors, furniture, panels etc..

- 360° swivel
- With adjustable leg
- Foot-wide and milled slip
- Sustainable weight up to 200 kg
- Good relationship between leverage and scale show

Extending Rod to test smoke detectors

47037_1 TYPE "A" "MAGIC"

With its length, this telescopic rod is suitable for maintenance of smoke detectors, it sprays the gas inside the black rubber cap simulating the smoke, verifying in this way the functionality of the smoke detectors and in the meanwhile cleaning it from dust.

Spray cartridge 47032_1 to be ordered separately. The rod is equipped also of a magnet suitable to check the electromagnets, generally applied on the fire doors.



47032_1
Bottle gas to test smoke detectors TYPE "A" MAGIC

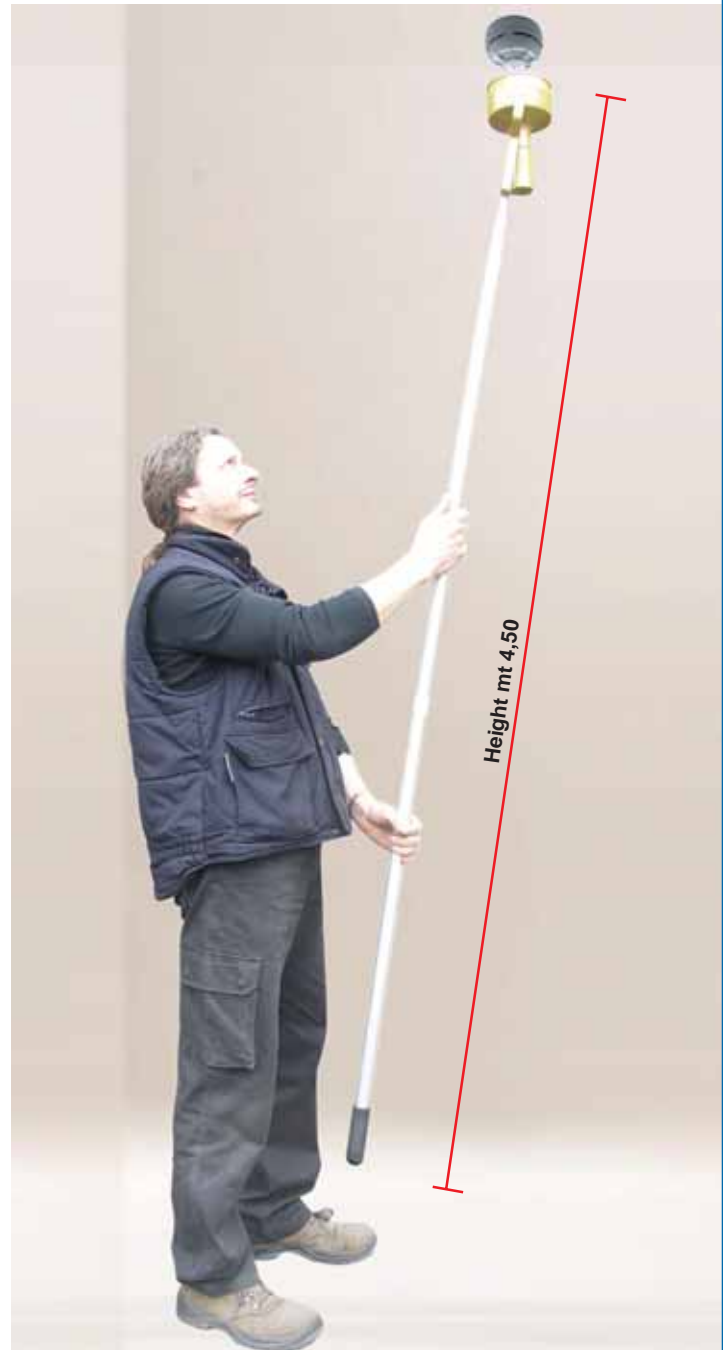


47037 TYPE "B" "BASIC"

With its length, this telescopic rod is suitable for maintenance of smoke detectors, it sprays the gas inside the black rubber cap simulating the smoke, verifying in this way the functionality of the smoke detectors and in the meanwhile cleaning it from dust.



47032
Bottle gas to test smoke detectors TYPE "B" BASIC



Fire testing training pan with GPL LPG

98701 Gas fire testing MAXI Dim 115x115

98701_1 Gas fire testing MINI Dim. 80x85

Fire simulator for fire fighting training composed by:

Stainless steel basin with adjustable feet, burner in copper pipe, valve with pressure reducer for LPG gas cylinder, Automatic valve of gas shut off with thermostat and 10 Mt for gas LPG rubber hose.



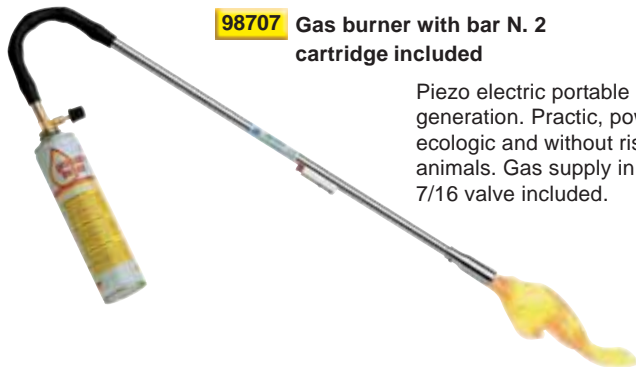
TRAINING AND EDUCATION

**Lightweight, portable,
ideal for training
in customers company.
It weighs only 40 kg.**

detail
thermoelectric
valve



Particular GPL cylinder
with pressure regulator
and safety valve



98707 Gas burner with bar N. 2 cartridge included

Piezo electric portable burner of new generation. Practic, powerfull, safe, ecologic and without risk for people and animals. Gas supply in cartridge with 7/16 valve included.



98708 Cartridge spare part for burner 330g

Technical data are subject to modification for improvements without prior notice

98709 Professional fog maker machine

The fog machine FOG F1 it's a machine for creation of high density fog curtains, ideal to produce suggestion atmosphere, ideal for clubs, discotheques, concerts and spectacular events.

The liquid used for creation of the fog it's absolutely non toxic, in accordance with CEE standards.

TECHNICAL DATA:

Heating power: 1000W
Heating-up time: 3/5 minutes
Tank size: 2 l
Fog output approx: 280m3/min.
Power supply: 230V~/50Hz/700VA
Dimensions: 270x280x480mm
Weight: 6kg

SMOKE NON TOXIC



Dim: 27 x 28 x 48

98710

Liquid spare charge 5 litres

Wire remote control included

98709_1 Fog maker machine

Metal housing with movable mounting bracket. Fixed tank, level indication. Activation supplied cable-connected remote control.

TECHNICAL DATA:

Heating power: 700W
Heating-up time: 4 minutes
Tank size: 0.8 l
Fog output approx: 71m3/min.
Power supply: 230V~/50Hz/700VA
Dimensions: 160x170x330mm
Weight: 3.5kg



Safety equipments cabinets

60025 Safety equipment cabinet - Red epoxy painted, 3 shelves, lockable with key
2 doors complete with Safecrash sheet.



Dim. 1000x1000x400 mm

On request with NOFLAME sheet and seal



60045 Safety equipment cabinet
1 shelf complete with EASYBREAK sheet.
In stainless steel INOX 1 shelf.
Suitable for outdoor.



STAINLESS
STEEL

On request
RED
epoxy painted

Dim. 500x700x260 mm

60042 Safety equipment cabinet
Red epoxy painted, 3 shelves, lockable with key 1 door complete with Safecrash sheet.



Dim. 700x1000x400 mm



60043 STAINLESS STEEL

60047 Safety equipment cabinet
Red epoxy paint, 3 shelves, lockable with key 1 door.



Dim. 450x650x270 mm

60046 4 adjustable shelves, key lock.
Made of sheet steel certified FE42 with suitable reinforcing ribs, top lever,
red epoxy paint. Windows inspections in EASYBREAK

Version with 4 shelves + full side compartment for
shovels, hang clothing. Safecrash sheet included.



Dim. 900x2000x350 mm



FOOT STAND FOR CABINET

60002 Foot stand cabinet in stainless steel



Steel red epoxy
painted RAL 3000

60005

Suitable for:
60042 - 60043 - 60044
60045 - 60047

Technical data are subject to modification for improvements without prior notice

Fire Cabinets , modular assembly kit

ASSEMBLY cabinets are quick and easy assembly, supported by detailed manual of instruction.

SPECIAL PACKING Packing resistant, compact, strapped on a pallet size for easy handling and a significant reduction for the transport costs.

60073 Fire cabinet 2 doors



Fireproof safe, epoxy coated red RAL3000, rounded edges prevents skin accidents, locker, blind doors, 4 shelves.



60074 2 windows doors with EASYBREAK

Dimensions.185hx107x50 cm

60076 Fire cabinet 1 door



Fireproof safe, epoxy coated red RAL3000, sheet with rounded corners, sheet, rounded edges prevents skin accidents, locker, blind door, 3 shelves.



60075 Fire cabinet 1door with EASYBREAK

Dimensions.185hx57x50 cm

60077 Fire cabinet 2 doors

Fireproof safe, epoxy coated red RAL3000, rounded edges prevents skin accidents, locker, 2 blind doors, 2 shelves.



Dimensions.110hx107x50 cm

60078 Fire cabinet 2 doors with EASYBREACK

Fireproof safe, epoxy coated red RAL3000, rounded edges prevents skin accidents, locker, 2 windws doors, 2 shelves.



Dimensions.110hx107x50 cm

60079 Fire cabinet 1door

Fireproof safe, epoxy coated red RAL3000, rounded edges prevents skin accidents, locker, 2 blind doors, 2 shelves.



Dimensions.110hx57x50 cm

60080 Fire cabinet 1 door with safecrash

Fireproof safe, epoxy coated red RAL3000, rounded edges prevents skin accidents, locker, 2 windows doors, 2 shelves.



Dimensions.110hx57x50 cm

60081 Fire cabinet 1 door EASYBREAK

Fireproof safe, epoxy coated red RAL3000, rounded edges prevents skin accidents, locker, 1 windows door, 1 shelves.



Dimensions.60hx42x30 cm

Fire suit MED Approved

93180 Naval fireman med - solas approved.

Complete with: jacket, trousers, gloves, helmet, boots, bags.
93180 include (93181+93182+93183+93187)

Certified MED 96/98 CE EN 531 EN 1486 type 1

93187 Helmet for Naval Fireman MED Approved



Nape protector for headcap included

93181 Jacket and trousers in Rayon MED Approved

93182 Protective gloves MED Approved

Heat resistant gloves, palm side of black aramid fiber silicon coating, back side aluminized aramid fiber, Lining woo/flameproof polyester, Membrane 100% polyurethane waterproof and breathable.
EN 659:2003 + A12008



MED



93184

Knitted Balaclava, all face opened.

Handbag



93183

Safety rubber boots with steel cap MED Approved (Height 38 cm)



93009 Complete firesuite approach

The suit consists of:

Firesuite complete with:

One-piece suit manufactured from 100% preoxidized para-aramidic aluminized fibre and unlined.

Front opening with double inside fastening by F.R. Velcro® fixed flap and protection covering with F.R. Velcro®. Korean style collar Comfortable set-in sleeves

INTEGRAL HOOD:

It is suitable to be used with full mask and air dispenser It is supplied with replaceable panoramic gold, temperate visor with inner polycarbonate protection.

Inner adjustable helmet conforming to EN 397.

BOOTS:

100% reinforced para-aramidic sole rear Velcro® F.R. fastenings

GLOVES:

Fingered model with total length:35 cm. 100% para-aramidic fabric palm 100% para-aramidic fabric aluminized back and cuff, Fire resistant coated inner
Manufactured to EN 659 – EN 1486

Overall is supplied in a PVC bag

Overall is manufactured according and to EN 531 Norm- III Category



93101 Fire crossing suite

Firesuite complete with:

Overall model 93101 outer fabric made of 100% aluminized and preoxidized para-aramidic fibre;
2-layer carbon quilted insulating internal liner.

One-piece multi layer suit, maximum comfort.

Comes complete with built-in hood: designed to accommodate face shield and breathing mask, helmet according to EN 397, gold-vaporized compound glass (removable) visor with internal protection layer made of compressed polycarbonate; back pocket for holding the breathing apparatus.

Frontal opening Double internal zipper with wide flap closed with Velcro® F.R. strap completed with external cover flap with Velcro® F.R. fastening strap

Adjustable straps at ankle hems with Velcro® F.R. fastening

Boots

(over-boots) model S202 same fabric as the overall, with 100% para-aramidic fibre reinforced sole and back closure with Velcro® F.R. fastening strap

Gloves

Finger gauntlet, same fabric as the overall, completed with Velcro® F.R. fastening strap on the forearm.
Total length 40 cm.

The suit comes complete with PVC carrying bag

Designed according to EN 1486, Type 3 - Category III FIRE CROSSING



Heat protective suits

93186 Jacket in cotton Fire-Proof red color

100% cotton flame resistant, 380 gr / sqm. (red), Lining 100% modacrylic FR 200 gr / sqm. knee length, center front zip closure over zipper cover band and metal buttons, two lower pockets with flaps and snaps coverage. Inside pocket.



93035 Jacket in Nomex fiber III EN531

100% Nomex III, padded with aramid, FR cotton lining to EN 340 - EN 531, category II PPE. High collar, big side sleeves, 2 pockets and two chest pockets, zippered, reflective tapes in fireproof fabric, not self removable vest. Weight: 260 g / sqm. Washed in water at 40 ° C.



93034 Jacket + trouser with vest

JACKET

with zip fastener in the middle (or buttons) and covering, shirt-collar, arm-holed sleeves, two applied upper pockets with covering wings and Velcro and two applied lower pockets with covering wings and Velcro, seaming with aramidic yarn.

VEST

american-styled trousers with two applied front pockets with covering wings and Velcro and one applied pocket closed with Velcro on the back.

Elastic waist with openings on the hips closed with button, front under-bib closed with buttons, adjustable suspenders with quick release buckles, large pocket applied on the breast with covering wing and Velcro, seaming with aramidic yarn.

Available models: 100% fireproof cotton 380 gr./sq.m.(red).

CERTIFICATION:

The I.P.D.s (jacket and vest suit) are EC certified in compliance with directive 89/686/EEC dated 21.12.1989 and L.D. 475/92 by the Notified EEC Agency no. 0302 as protection apparel of 2nd category (EN 531).

The I.P.D.s (jacket and vest suit) in aramidic combined with under-overalls suit code L11MAG + L11PAN are certified in compliance with directive 89/686/EEC dated 21.12.1989 and L.D. 475/92 by the Notified EEC Agency no. 0302 as protection apparel of 3rd category (EN 531).



93010 Coverall Nomex III orange "fire brigade"

One-piece, central locking with metal hinge double slider, shirt collar, set-in sleeves two pockets above, applied with Velcro flaps, two lower pockets, applied with Velcro flaps, rear elastic waist seams with aramid yarn.

Packed with fabric aramid to 185 gr / sqm.



93185 Cotton overalls fireproofed 380 gr / sqm EN 531 "Fire brigade"

One-piece, central locking with metal hinge double slider, shirt collar, set-in sleeves, two pockets above (applied) with flaps and Velcro closure, two pockets lower (applied) with top flaps and Velcro closure, elastic back in life, seams with aramid yarn.



Individual protection

93203 Winter jacket for manteiners tech, with detachable sleeves

Jacket with detachable sleeves
65% polyester 35% cotton

specifications:

- Polyester padding and nylon lining
- Button closure automatic and hinge
- 2 outside pockets with flap Velcro closure and two with hinges
- 2 phone pockets
- Collar Band
- Blue color night
- Detachable sleeves
- Size: M L XL XXL



93204 Summer jacket for manteiners tech

Sleeveless quilted vests 65% polyester 35% cotton midnight blue

Specifications:

- Polyester lining
- Closure with snaps and hinge
- 2 outside pockets with flap Velcro closure
- 2 outside pockets with zipper
- Mobile phone pocket
- Collar Band
- Internal elastic armholes
- Nylon lining
- Size: M L XL XXL



93030 Breathing apparatus SOLAS/MED 6 lt cylinder filled at 300 bar mask included



acomadation of one or two air cylinders with 4 to 6.8 liters.

Approvals and Standards EN 137 and MED 96/98/EC

Wherever sudden outbreaks of hazardous gases and oxygen deficiency are to be expected, in particular in industry and merchant marine, the compact is ready to immediately provide breathing air.

Other size and type available on request.

Proven technology for 200- and 300 bar. Unisize carrying plate of sturdy heat resistant plastic. Carrying harness of non-flammable Modacrylic-Aramide fibres. Comfortable hip-pad for equal weight distribution. Self-luminescent pressure gauge, or alternatively Integrated Control Unit ICU. The compressed air breathing apparatus offers a choice of options for all requirements, like the warning signal near the ear, Quick-Fill or second connection. The cylinder holder with variable strap permits

60091 Wall cabinet for autobreath



Dimension 57.5 x 50 x 105 cm

Cylinder				Air breathing			
Capacity Litres	Pressure Bar	Stock N litres	Ø mm	Dimension mm l x h x d	Weight Kgs	Endurance min.	Alarm calibration
6	300	1670	140	310x660x220	15,6	55	55+/-5

93027 PVC safety boot

Category II, EN 345-1/92
Toe cap and steel midsole.
Antistatic, for industry and agriculture.



93183 Stivale anticalore tomaio in pelle pieno fiore x VV.F.

Composite anti-perforation mid-sole
Outside height (size 8): 370 mm
Weight (size 8): 1900g / pair
Elastomer: fireproofed NBR (fireproofed nitrile rubber)
Reference: FIREMAN SA Boots (safety toe cap + anti-perforation mid-sole)
Excellent resistance to heat flow, heat contact, fire. Excellent resistance to chemicals: fuels, oils, weak and diluted acids, solvents. Excellent resistance to abrasion and cuts.
Used with chemical protective suits (satisfy permeation tests according to EN 943-2).



93042 Handbag for ADR accessories (EMPTY)



Protection for drivers supplied in sturdy waterproof nylon bag, 1 side pocket with zipper closures, handles and shoulder strap for transport.

93042_1 ADR bag kit complete with accessories class 1, Explosive

93042_2 ADR bag kit complete with accessories class 2, compressed gas not flammable



Can be contents

- 1 Full-face gas mask
- 1 Mask filter - A2 B2 E2 K2
- 2 Orange signalling lamps - fringes
- 4 Batteries for lamps
- 1 PVC boots
- 1 Antiacid and anti-cut latex gloves as per EN 374
- 4 Reflecting cones H.52 cms
- 1 Fluorescent waistcoat approved EN 471
- 1 Aluminium antispark pocket lamp at intrinsic security
- 1 Protection glass
- 1 Antiacid, impermeable overalls

93187 Helmet for naval fireman MED Approved

140°C/15 min / 250°C/30 min. Luminescent and reflective tapes, Polycarbonate anti-scratch and anti-fog coated visor. Flame retardant high temperature resistant copolymer plastic



93040
Nape protection for head cap fireman

93100 Helmet Fireman EN 443

140°C/15 min / 250°C/30min 1.000°C/10sec
Glass fibre fire fighter's helmet with incorporated visor, leather head guard according to EN 443 adjustable size from 52 to 62.



93099 Fire helmet type Gallet F1S EN 443

140°C/15 min / 250°C/30min 1.000°C/10sec
The F1 is the fire helmet used by fire brigades throughout Europe. An optimal protection of the head, the face and the neck. The F1 offers excellent shock absorption, face shields that are pulled out of the helmet when needed protect from chips and glare, an additional eye screen provides protection at general work.



93013 Semimask CE EN 140 without filter



93014 Filter for semimask (2 pieces)



93016_1 Multipurpose filter for CO



93015 Full face mask with panoramic visor.



93016 Multipurpose filter for 93015



93011 Polycarbonate face shield frame for helmet

93012 Polycarbonate face shield frame for helmet



Mounting kit

93043 Antinoise earphone CE EN 352-1



93046 Ear caps



93069 Goggles mask CE EN 1661 B



93044 Holster safety belt according to EN 358:2000



93194 Fireman German belt DIN 14927/EN 358



93094 Nylon rope with 2 hooks



Ø 12 mm mt 20 with 2 hooks

93045 Kevlar rope



Ø 10 mm mt 20

Technical data are subject to modification for improvements without prior notice

93036

Rake aluminium handle
mm 1200



93037

Shovel America wood
handle mm 1000



93038

Shovel pliant aluminium
antispark mm 1030



93004

Axe handle type for
Fire Brigade big mm 870



93002

Fire beating shovel with a
wooden handle mm 1000



93053

Fire forest beater
aluminium handle
60 cm



93032

Fire forest beater
aluminium handle
120 cm

93054

Fire forest beater
wooden handle
60 cm



93033

Fire forest beater
wooden handle
120 cm

93003

Axe handle type for
Fire Brigade small



Fire brigade hatchet with leather
sheath, tubular handle and
rubber antiskid handgrip.
Weight gr. 1100 L.33 cm

93195 Portable torch EEX waterproof

Powered by 2 "AA" alkaline batteries
Xenon gas-filled bi-pin bulb, many times
brighter than conventional flashlights
Up to 4,500 peak beam candlepower
(9 lumens)
Runs up to 4 continuous hrs.
Waterproof / IPX7
Features a wrist lanyard connection and
pocket clip 15 cm / 100g



93196 Portable torch EEX waterproof

A powerful and incredibly handy flashlight
that features a momentary blink or constant
on tailcap switch. Powered by 3 "C" alkaline
batteries 3.7 volt, 785 mA xenon gas-filled
module. Up to 16,000 peak beam candle
power (50 lumens)
Runs up to 5.5 continuous hrs.
21.7cm / 400g
Waterproof/Dustproof IP65
Wrist lanyard connection and a spring-loaded
clip.



Road mirror

93097 Ø 600 mm

93098 Ø 900 mm



93202 Head lamp equipped with 5 LED
and a krypton

Head lamp equipped with 5 LED and a krypton
bulb 4 mode switch: 1 LED, 3 LED's or 6 LED's
together, krypton bulb.
Low power consumption.
Sizes: 74x51x56 mm
Batteries: 3xLR03AAA



93200 Rechargeable halogen spotlight

Super bright beam bulb (12 W) 2 hours of
continuous light after a complete charge
Waterproof
AC230 V and DC 12 v car/boat plug
Useful industry, electricians use, home use,
hobby, camping and all outdoor activities
Sizes: 215x125 mm



Batteries:
Bulbs Pb6V4Ah
24455 6V-12W

93199 Atex rechargeable vulcan lantern

Rechargeable lantern light with
powerful long range use.
APPROVED ATEX EX II 3G EEx ALIIC
T4ATEX FTZU 2004 0180 EX II 3G EEx
ALIIC T2
SPECIAL FEATURES
LED displays battery
status.
Dual power
supply 12
and 220 Volt



93182 Gloves for Fireman MED Marine Approval

Description

Heat resistant gloves, palm side of black aramid fiber silicon coating, back side aluminized aramid fiber, Lining wool/flameproof polyester, Membrane 100% polyurethane waterproof and breathable. EN 659:2003 + A12008



93149 5 finger glove NBR NITROTOUGH nylon grey

Application:

Specifically for heavy duty, industrial automotive, construction and maintenance in general. Category Risk II.



Package
10 pcs

93157 5 finger glove, made in leather cotton and polyester

Glove with palm, thumb and protection nails in flower, back made in cotton and wrist in elastic cotton.

Application:

Manipulations of wooden box, cardboard plastic and general maintenance. Category Risk II.



Package
10 pcs

93140 5 finger glove for welder

Glove with internal lining, safety cuff, cut resistant, abrasion, tearing and heat.

Application:

Manual welder of metal manipulation of metallurgical products, cutting and related techniques. Category Risk II.



Package
10 pcs

93155 Sleeve double layer 355 mm spun Kevlar up to 100 ° C

Glove with double-layer thin but Dupont Kevlar yarn in 15 gauge for maximum comfort.

The sleeves have the exclusive elastic band "Stay-Up" that ensures absolute adherence to the arm.

The number of signs indicating the length in inches.

Providing protection from welding sparks and burns usual in bakeries and are used where necessary to protect the arm, especially nell'handing of metal plates or glasses.

Application:

ideal for industry automotive and glass.

also used

in storage

component

metal and

produce

metallurgy.

Size: Universal



93146 NBR glove with ventilated back

NBR glove with ventilated back

Application:

specifically for heavy-duty, automotive, construction and maintenance in general. Risk Category II.



Package
12 pcs

93153 5 finger glove made with heavy natural rubber

Glove made with heavy natural rubber high chemical resistance against water-based substances.

Bright color for high visibility and sandblasted finish on the entire hand for an excellent grip in the wet hose with special grooves to increase ventilation and vestibilità.

Application:

Ideal for the chemical and pharmaceutical industries, laboratories, hospitals, wood and ceramics industry .



Package
10 pcs.

Technical data are subject to modification for improvements without prior notice

Fire proof cabinets - data - Fire Proof for paper and data

60065 Archiver

For paper documents
Certified U.L. 30'.
Key look, black color.



Dim. 155x309x260 mm
Weight 5,3 Kgs.

60066 Archiver

For digital and paper documents
Certified U.L. & ETL. 30'.
Key look, light gray color.



Dim. 357x441x437 mm
Weight 23,1 Kgs.

60068 Bauletto

Per supporti cartacei e digitali
Certified U.L. & ETL. 30'
up to 850°C.
Tubular key look
Dark gray color.



Dim. 387x159x308 mm
Weight 7,7 Kgs.

60044 Classificatore

For paper and digital data.
Certified U.L. & ETL



Dim. 701x438x591 mm
Weight 78 Kgs.

Fire proof cabinets - data - Fire Proof for paper and data

60067 Cassaforte

For magnetic data
Certified U.L. 60' - Small model



Dim. 603x472x491 mm
Weight 73 Kgs.
Capacity 56,6 litres



Used to protect digital data (CD, DVD, USB key, hard disk, etc.) in case of fire up to 920°C.

Electronic lock with 5 digits.
Inner shelf, interior drawer with lock, and racks for folders.
Color: Light gray.

60083 Cassaforte

For paper and magnetic data
Certified U.L. 60' - Big model



Dim. 1210x646x608 mm
Weight 283 Kgs.
Capacity 163 litres



Used to protect digital data (CD, DVD, USB key, hard disk, etc.) in case of fire.

Electronic lock + key-lock time after entering three wrong codes.
2 shelves adjustable in height,
1 drawer with lock.
Color: Light gray.

Security and armored cabinets for paper and data

60086 Security cabinet

For paper data
Certified ECB-S, 60'

Used to protect paper in case of fire.

Key double-locked.
180° opening
3 shelves.

Standard color: gray RAL 7024.



Dim. 1490x686x463 mm
Weight 410 Kgs.
Capacity 241 litres

60087 Security cabinet

For paper and magnetic data
Certified ECB-S, 120'

Used to protect paper and magnetic data in case of fire.

Key double-locked.
180° opening
1 shelf.

Standard color: gray RAL 7035.



Dim. 1090x570x658 mm
Weight 313 Kgs.
Capacity 140 litres

Safety cabinet according to EN 14470-1

Safety cabinet

(Available also with folding doors)

60069 Safety cabinet 1 door according to EN 14470-1

60070 Safety cabinet 2 doors according to EN 14470-1



Safety cabinets

- Resistance to fire from 30 to 90 minutes according to EN 14470-1 (Type 30)
- GS approved, CE compliant
- Labelling according to standard EN 14470-1

Fixed shelf

- Adjustable shelves height (32 mm each)
- Shelves unmovable
- Load (distributed in uniform): approx. 75 kg
- Bottom recipient recover leakages
- Bottom easy removable to clean
- Maximum safety in case of fire!

OPTIONALS:

- Lock the door with automatic opening device integrated thermal release (Connection with fuse), closure automatic door.

Dimension L x H x P (mm)
External about. 600 x 1970 x 600
Internal about. 530 x 1650 x 505
Weight: about. 200 kg

Dimension L x H x P (mm)
External about. 1200 X1970 x 600
Internal about. 1130 x 1650 x 505
Weight: about. 280 kg

Cabinet according to EN 14470-1

Efficient storage and disposal of hazardous substances

The fire resistant cabinets are suitable in laboratories.
Useful to store dangerous materilas in hospital, chemical la, industries.
Fire resistant 90 minutes

Fire resistant for 90 minutes according to EN 14470-1, GS Approved
CE compliant. Color RAL 7035, perforated metal sheet, collection tank
bottom, sheet steel, plastic laminate and base height 30 mm.

60071 Safety cabinet safe loker 1 door according to EN 14470-1

60072 Safety cabinet safe loker 1 door according to EN 14470-1



Dimension L x H x P (mm)
External about. 1100 x 600 x 570
Internal about. 470 x 500 x 450
Weight about. 165 kg



Dimension L x H x P (mm)
External about. 590 x 600 x 570
Internal about. 470 x 500 x 450
Weight about. 90 kg



Eye-washers

93096 Emergency eyewash showers

Emergency eyewash showers:
Bench or wall mounted, straight or inclined, single or double

- Brass body
- Anti-corrosive epoxy coating
- Open, regulated spray

(Standard DIN EN 246)

- Min. pressure 2 Bar
- Capacity:
6 l/min (single spray head)
12 l/min (double spray head)



Showers and eye-washers for body/eyes

93047 Safety showers Installation: floor, wall or ceiling mounted

Fast mounting of pre-assembled parts
Easy maintenance of extractable, controllable parts.

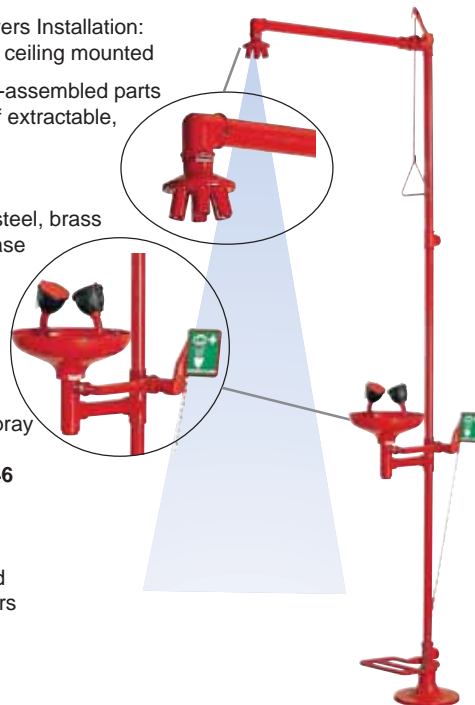
Materials:

Pipes in galvanised steel, brass fittings, aluminium base and pedals, anti-corrosion epoxy paint

Eye-washers with:
bowl in ABS
aerated, regulated spray

Standard DIN EN 246

Min. pressure 2 Bar
Capacity:
30 L/min/ single head
12 L/min/ eye-washers



Fog fire forest blower to carry on the back

93193 Fog fire forest blower to carry on the back

Model 93193 is provided with:

- Diaphragm carburettor and specific fitting-out to prevent accidental fuel leaks;
- Fuel tank in safety position with airtight closure cap;
- Blower pipe and spreader in aluminium reinforced with a steel ring;
- All plastic materials endure heating;
- Shoulder straps in fireproof material with fast safety release;
- Accelerator, stop and liquid cock controls are situated on the safety handle on the air exit pipe;
- "Instructions and Maintenance" manuals with safety procedures (drawn up by fire fighting qualified people).



Fog fire forest blower

93192 Fog fire forest blower

Model 93192 is provided with:

- Diaphragm carburettor and specific fitting-out to prevent accidental fuel leaks (the fuel tank cap has an airtight closure);
- Air blower pipe in aluminium;
- All plastic materials endure heating;
- Shoulder straps in fireproof material with fast safety release;
- Accelerator, stop and liquid cock controls are situated on the safety handle on the air exit pipe;
- "Instructions and Maintenance" manual with safety procedures (drawn up by fire fighting qualified people).



Maintenance Portable fire extinguishers

Maintenance

Does not exist one standard valid on all European countries.

Italian Standard UNI 9994-1:2013 is the most restrictive rule existing in Europe, requiring service every 6 months, while in most countries it is once per year, or every 2 years. Here below some good suggestions:

Surveillance

Visual inspection of correct position and installation: every day.

Maintenance

Must be made by an authorized technician. Series of control and maintenance with purpose to ensure the correct functionality of the extinguisher. Inspection of pressure, weight, integrity of all components.

Refilling

Must be made when the extinguisher has been used even partially. When the gauge shows low pressure, and needle is in the red area, or weight is less than recorded in the service card.

Disposal

must be made according to regulation in the own country.

CO2 carbon dioxide and Halogenated **FOXER** do NOT need to be changed, they never change their properties when stored in the fire extinguisher.

Dry powder: in England is **required** to make a discharge test every 5 years, in Germany discharge, check for impurities or caking, and refill after filtering, different behaviours in other countries.

A good rule is check at least every 2 years. If the powder appears fine, with a good fluidity and smoothness, without any caking, that means its chemical and physical properties are intact, and it is still good to be used.

Generally a good powder manufactured and approved according to EN615, kept in sealed fire extinguishers, within temperature -30°C + 60°C will not change its chemical and physical properties.

Replace the powder it appears start of caking and low fluidity.

Foam: when it is a premixed solution is a good rule change and recharge with fresh solution every 3 / 5 years, better check the instructions of the manufacturer.

When the foam compound is sealed in a plastic cartridges and not in contact with sunlight and water, validity is at least 5 years. Follow the instructions of the manufacturer.

Test: Hydraulic test of cylinder, the rule valid in all Europe every 12 years for cylinders produced with CE PED mark. CO2 cylinders with CE PED or T-PED mark every 10 years.

Choice and number of extinguishers

The choice of portable fire extinguishers should be determined according to class of fire and the level of risk in the workplace.

The number and capacity of portable fire extinguishers depends on the risk, and laws in force in respective countries.

Generally risk can be: Low, Medium, High.

The chart beside is good rule, but depends also by law in force in the respective countries and therefore may be some time significantly different. Anyway: Install at least 1 fire extinguisher in each floor of the house.







Always install in a visible position and easy to be used, fixed in a wall, with a sign on top.

Distance between extinguishers never more than 30 mt.

Surface protected by 1 extinguisher			
Class of fires	Low	Risk type:	
		Medium	High
13 A - 89 B	100 m ²	-	-
21 A - 113 B	150 m ²	100 m ²	-
34 A - 144 B	200 m ²	150 m ²	100 m ²
55 A - 233 B	250 m ²	200 m ²	200 m ²

A good suggestion: only a very good trained operator can achieve the rate of the fire class shown in the extinguisher. It is suggested to buy always a bigger size, with higher quality raw material.

Unless used simultaneously, by 2 operators, 2 extinguishers of 6 kg, have less result than 1 of 12 kg. When medium and specially high risk area, trolley and or foam mobile units, must be severely considered.

Extinguishant	Advantages	Disadvantages	Extinguishing method
POWDER   	ABC Dry Powder fire extinguishers are a multi-purpose and highly effective extinguishing agent, making them an excellent choice for use in most circumstances. They are ideal for use in warehouse and factory environments and other areas where the considerable advantages offered by their effectiveness and multi-purpose application outweigh the disadvantage of their residual properties.	The downside is that they leave a fine powder residue, making the clean-up process of small fires more problematical, and causing damage to sensitive electronic equipment that the mono-ammonium phosphate extinguishing agent comes into contact with. For this reason, they should not be used in contaminant-sensitive environments such as offices or food preparation areas, etc.	ABC Dry Powder fire extinguishers work by fusing particles of blended ammonium phosphate and ammonium sulphate powder over a fire to form a barrier that starves it of oxygen and prevents re-ignition, and acts to knockdown a fire.
WATER 	Water fire extinguishers are good for tackling class A fires involving burning wood, paper, textiles and general combustible materials. They don't contain any harmful chemicals or residual agents and they are kind to the environment. As water fire extinguishers are cleaner than other extinguishing agents, they are a good choice for assisting in the emergency egress from a building when cited along escape routes where, for example, a powder extinguishing agent could enter the eyes of the user due to forward movement into the powder residue or other factor.	The downside is that they are strictly for class A use only and can make the fire worse or be very dangerous to the user if used on the other classes of fire. For example, water conducts electricity and thereby presents a risk of electrocution to the user, so this type of fire extinguisher must never be used on live electrical equipment. In addition, burning oils and water most definitely do not mix and can create an explosion or fireball!	Water fire extinguishers work by cooling and quenching a fire, thereby absorbing heat from the fire and reducing its temperature below the critical level needed to sustain the fire.
FOAM  	Foam extinguishers are especially suitable for class B flammable liquid fires such as paints, thinners, petrol, and oil spills. Foam is also very effective on class A fires such as man-made furnishings. They have a higher class A fire rating per litre than their water counterparts and can therefore be more lightweight and portable, making them a good choice for an office fire extinguisher.	Cannot be used on domestic chip or fat pan fires.	Foam fire extinguishers work by covering a fire with a film of foam that starves it of oxygen and prevents re-ignition, in addition to penetrating absorbent materials and having cooling and quenching properties due to the water content.
CARBON DIOXIDE	Carbon Dioxide (CO2) fire extinguishers are safe for use on electrical appliances and are non-residual, making them ideal for use in office environments where sensitive computer equipment would be damaged by using other types of extinguishing agents.	As CO2 does not cool the fire very well, there is a risk of the fire re-igniting. Fumes from CO2 extinguishers can be harmful if used in confined spaces. The horn freezes during discharge, so care must be taken not to touch it.	CO2 fire extinguishers work by displacing oxygen at the source of the fire with an inert gas, thereby starving the fire of the oxygen that is essential to the combustion process. They also have some cooling properties.
CLEAN AGENT HFC FOXER	Clean agent (Clean Green, Clean Blue, Foxer S) fire extinguishers are safe for use on electrical appliances and are non-residual, making them ideal for use in office environments where sensitive computer equipment would be damaged by using other types of extinguishing agents. Do not leave residues, and is safe for humans and animals.	Rapid vaporization of the gas they have to be limited outdoor. Costs more than most extinguishing agent.	Clean Agent fire extinguishers work by displacing oxygen at the source of the fire with an inert gas, thereby starving the fire of the oxygen that is essential to the combustion process.

TERMS AND CONDITIONS OF TRADE

1. General Provisions.

(a) The following definitions are used hereafter in this document.

- "Seller": refers to ABS s.r.l. with its office and premises in Lombardia Street, 310, 20861 Brugherio, Milan, Italy;

- "Buyer": refers to the person, firm or company the purchase order is received from.

(b) The terms and conditions set out below (the "General Terms and Conditions of Sale") shall form part of all the agreements executed between the Seller and the Buyer for the supply of the Seller products (the "Products"), and they will prevail over any general rules submitted by the Buyer, unless accepted in writing by the Seller.

(c) The Seller reserves the right to change, integrate or vary the General Terms and Conditions of Sale, by including such variations in the quotations or in any other written correspondence sent to the Buyer.

2. Offers and Orders.

(a) Quotations and offers will keep in force for a period of 30 days from the date of issue, unless differently stated by the Seller in writing. Anyhow the Seller will be entitled to cancel or change the quotations or offers at any moment before issuing the written confirmation of order acceptance.

(b) Orders placed by the Buyer shall not be regarded as accepted before these have been confirmed by the Seller in writing. If the Seller should fail to confirm an agreement in writing which it has entered into verbally, the Seller's invoice or the execution of the order by the Seller shall be regarded as confirmation. The minimum invoice amount is 350,00 Euro.

(c) Any order, order proposal, or supply request forwarded to the Seller represents an irrevocable contractual proposal to the Seller for a period of sixty (60) days from the date of supplier's reception, being the Seller free to accept or refuse the order according to the Seller's unquestionable judgment.

Orders and/or amendments of orders placed verbally or by telephone, must be confirmed in writing by the Buyer. Otherwise the Seller does not accept any responsibility for errors or consequent misunderstandings. The proposals submitted through agents, collaborators or brokers are usually meant as received "subject to the Seller's approval".

(d) The eventual request of modification of the order already confirmed, received more than five(5) working days from the issuance of order confirmation involves the application at Buyer's charge of the "Burden for order modification management service", quantifiable at 50,00 Euro, even in the case of subsequent impossibility by the Seller to implement the requested modification.

(e) The order confirmed by the Seller is irrevocable by the Buyer exceeded five (5) working days from the issuance of order confirmation. It doesn't affect the right of the Seller to accept the request to cancel the order, in that case the Buyer could be charged of the "Burden in compensation", quantified in at least 10% of the total amount of the order with a minimum of 150,00 Euro.

3. Prices and Terms of Payment.

(a) The prices of the Products shall exclude any statutory VAT which shall be payable at the date of delivery or pursuant specific provisions included in the invoice.

Unless otherwise stated all prices quoted in any document or correspondence issued by the Seller do not include packaging and transport costs, nor the ancillary expenses as indicated in the Seller's sales catalogue in force at the moment of the conclusion of the contract. Taxes, stamps, custom duties and any other supplementary cost are not included in the prices. Unless an exception is made, those costs and expenses will be paid by the Buyer and, in case they are paid by the Seller, their amount will be invoiced to the Buyer as well as with the quoted prices. The prices will be corrected in case of printing errors.

(b) The payment of the Net Invoice Price shall be paid free of any reduction by the Buyer according to what stated in the confirmation of order and the same invoice.

(c) In addition to other remedies permitted under the applicable law and these General Terms and Conditions of Sale, the Seller reserves the right to recover default interest on delayed payments starting from the due date, calculated at the official reference rate of the European Central Bank increased by 7 (seven) basis points.

(d) In case of notification of faults and defects, the Buyer will not be entitled to start or continue proceedings without previously paying the total price in accordance with the contract. The payment will, in no case, be suspended or delayed: should disagreements arise, the related proceedings will not be started or continued unless the payment has been made according to the fixed terms and procedures.

(e) The Seller will be entitled to interrupt the product delivery should, in the Seller's unquestionable opinion, the Buyer's statement of assets and liabilities put the payment at risk.

(f) In any case, the product ownership is handed to the Buyer only with the total payment of the price is made, even if the products have already been mounted or installed in other products owned by the Buyer or third parties. Should the price not be paid, the Seller will expressly have the right to claim the ownership of the products also towards third parties or towards the Buyer, as well as the right to have the products released and returned (also with the right to obtain release and return injunctions). The Seller will have the right to disassemble and remove the products.

(g) The Buyer shall have no right to make any compensation, retention or reduction unless the counterclaims have been conclusively accepted by the Seller.

4. Terms of Delivery.

(a) Unless otherwise agreed, the delivery of the products shall be EXW (Incoterms 2010) from the Seller plant.

(b) The Buyer shall provide the means of transport and shall be responsible for its availability on time. The Seller shall immediately be informed of any delays. Any costs arising thereof shall be at the expense of the Buyer.

(c) All the time terms, also in relation to delivery time, return, installation, completion, etc, although defined as strict by the Buyer, will anyhow be considered as approximate by the Seller, and subject to a tolerance margin.

Unless otherwise expressly agreed in writing any indicated time of delivery shall be non-binding for the Seller. Unless different agreement between the parties, the approximate term for the delivery is the one specified in the confirmation of order.

(d) The delivery terms will be automatically considered as extended in the following case:

(i) should the Buyer not communicate the data that are necessary for the supply within the due time or should the Buyer require changes during work execution or answer late to the request of drawing and executive layout approval;

(ii) should the Buyer have outstanding payments;

(e) The Seller reserves the right to reasonably delivery in installments.

(f) Any liability to supply as a result of force majeure or other unforeseen incidents outside the Seller responsibility including, without limitation, strike, lock out, acts of public authorities, subsequent cease of export or import opportunities shall, for their duration and in accordance with their impact, relieve the Seller from the obligation to comply with any agreed time for delivery.

(g) The Seller is not obliged to accept the Products returns, unless otherwise agreed in writing. Any costs arising thereof shall be at the expense of the Buyer.

5. Duty to Inspection and Acceptance of Products.

(a) Upon taking possession of the Products, the Buyer shall immediately:

(i) check quantities and packaging of the Products and record any objections on the delivery note; and

(ii) conduct a conformity check on the Products compared to the data indicated in the confirmation of order and record any objections on the delivery note.

(b) In case of a notice of defect the Buyer shall comply with the following procedures and deadline:

(i) the notification shall be made by no later than [5 (five) working days] from the taking possession of the Products by the Buyer. In the event of an objection to a defect which, despite a first inspection has remained undiscovered, the objection must be raised within the early of the expiry of the working day on which the defect has been discovered but in any event by no later than [2 (two) weeks] after take over of the Products;

(ii) the above mentioned notice must be sent in writing to the Seller.

Any notice by telephone conversation shall not be accepted;

(iii) the notice must clearly specify the kind and amount of the alleged defect;

(iv) the Buyer agrees to make available for inspection the objected Products; such inspection shall be done by the Seller or by any expert designated by the Seller.

(c) No objections with regard to the quantities, quality, type, and packaging of the Products shall be possible unless a note has been placed on the delivery note in accordance with the above mentioned procedure.

(d) Any Product to which objection shall not have been raised in accordance with the procedures and deadlines set out above shall be regarded as approved and accepted by the Buyer.

6. Terms of Warranty.

(a) The Seller hereby represents and warrants that the Products shall be free from defect and shall comply with the technical specifications forwarded by the Seller.

(b) Under warranty obligation, the Seller commits to replacing and/or repairing the spoil and/or faulty defect within the limits of this contract and without any further refunding obligation deriving from direct and/or indirect and/or subsequent damage deriving to the Buyer or any third parties due to product defects (as an example, also provoking product losses, damage to things or people, etc).

(c) The warranty shall be valid only on the products used in suitable environment and for suitable applications in appliance with what has been foreseen at the moment the project has been studied; every improper use of the products is forbidden. The Products are guaranteed for a period of 12 (twelve) months unless differently written by the Seller in the commercial offer, period which will not be able to be in any event longer than 24 (twenty-four) months from the date of the shipment of the Products themselves.

(d) Such warranty only includes the substitution or repair of the defective Products with the exclusion of any other and different obligation.

The Product will be repaired by the seller at its own office, its secondary office or its own authorized reseller. The Buyer must request return material authorization to the Seller in writing, strictly according to the instruction contained therein, and forwarded. Only after the confirm of the return material authorization the Buyer will provide with the sending at his own expenses the defective Product with reason "return on repairing account" to the office, secondary office, or authorized reseller as indicated by the Seller. The Seller will transmit to the Buyer the new Product or the repaired Product, bearing therefore the costs of the shipment.

TERMS AND CONDITIONS OF TRADE

(e) Should the Buyer, agreeing with the Seller, require the replacement and/or repair to be carried out at the Buyer's plant, the Buyer will pay for travel expenses and accommodation for the technical staff provided by the Seller and will provide with all the equipment and auxiliary staff needed in order to carry out the intervention in the fastest and safest way.

(f) The warranty shall not be valid if the defect or not conformity will prove to be depending on not correct on not suitable applications of the product, or if the product has been non correctly placed in operation. Any alteration, change or replacement of product parts, which has not been authorized by the Seller may represent an accident risk and therefore releases the manufacturer from any civil or penal liabilities, and makes the warranty void.
The warranty does not cover the normal products parts subject to consumption.

(g) The repair of the product resulted as out of warranty is totally at Buyer's charge and it will be performed after approval from the latter of the estimate issued by the Seller when the amount of the same exceed 300,00 Euro;

(h) General rule on the warranty of the fire extinguisher
A fire extinguisher is a mechanical mean intended to extinguish the onset of a fire. It is designed to work under conditions/characteristics considered in the operating instructions/user's manual and not to represent a source of danger for the user. In case of doubt about its functionality due to external appearance, corrosion or impact damage, a qualified technician will verify with his experience the fire extinguisher and in some extreme cases will perform a 30 bar hydro pressure test on all of its components to prove mechanical seal.

(i) Storage
Fire extinguisher must be stored and/or installed in a safe place, protected from rain, snow, ice, direct sunlight and corrosive environment such in a chemical plants or sea. In case of exposition to corrosive atmosphere it is important to protect the fire extinguisher with blankets, caps, cabinets or cases, waterproof and sun proof.

Corrosion of the cylinder and other components.
Devices with no signs of tampering and presenting visible/external signs of corrosion will be warranted only if the technician responsible for maintenance establishes complete inoperability, or excessive dangerousness for the user.

To consider a fire extinguisher "Unqualified/unsuitable", it is necessary to execute a normal operating Pressure test (the PT pressure test can be found in the "Declaration of Conformity" issued by the Manufacturer and is normally grooved on the cylinders). If this test is "positive" and no anomalies are found, the fire extinguisher cannot be considered subjected to warranty and corrosion will be considered normal deterioration due to usage and handling of the product.

Also the paint is covered by guarantee but only against the leaf of the paint due to the not well adhesion of the paint on the support. It is instead not considered covered under guarantee any eventual corrosion signs started from points where the paint has been damaged by hurts or very aggressive environment.

(ii) Internal Corrosion
For powder or CO2 fire extinguishers, brownish stains or spots usually don't represent sources of particular danger: they can be caused by processing residues or by chemical reactions due to decomposing gases. For AISI 304 stainless steel cylinders, filled with water and chemical foaming additives, visible brownish stains are to be considered normal processing residues and are not source of corrosion. Some foaming additives, can be source of a slight corrosion even during normal warranty time: this corrosion is not intended to be dangerous. In case of doubt anyway, technical personnel is recommended to execute a 30 bar pressure test, to verify the absence of leakage from weldings, applying a water-soap solution on them. All External accessories of AISI 304 cylinders are made in standard carbon steel and are welded using special electrodes suitable for AISI 304 stainless steel. Possible traces of external corrosion are normal and due to normal ageing.

(iii) Flexible Pipes
All flexible pipes are made with EPDM rubber plus some various additives, with textile or metallic reinforcements. Exposition to direct sunlight or corrosive atmospheres could cause visible fissures and cracks. Technical personnel, during normal periodic maintenance, can verify whether the textile reinforcement is damaged or not: in case of doubt he should run a 30 bar pressure test. If there are any visible leakage an immediate substitution is required.

(iv) Wheels
Trolleys are not intended to go upstairs or downstairs; trolleys completely filled and ready-to-use can climb a step – max. height 15cm – otherwise they could occur in some serious damage.

7. Limitation of Liability.

(a) The Seller shall do its best endeavor to deliver the Products within the time agreed (if any), but it shall not be liable for any loss or damage of any kind whatsoever caused directly or indirectly by any delay in the completion of the contract or delivery of the Products.

(b) All the drawings, photographs, illustrations, descriptions, technical data and performances or any other data and information about the products, contained in documents or drawings annexed to the Seller's offer or included in catalogues, prospects, tables, pricelists, Seller's advertising, are to be considered purely as approximate indications. Any departures or variances will not be considered as a good reason for not accepting the goods or vitiating the contract or as a good reason to lodge a complaint to the Seller.

(c) All the drawings sent to the Buyer for approval will be considered as automatically approved by the Buyer unless they are returned to the Seller with notes and comments within ten (10) working days or within the time agreed when submitted to the Buyer.

(d) All the tables, technical data, and any other material and technical information included in the offer or provided with the supply will remain under the Seller's ownership and will not be reproduced or communicated to any third parties unless a written agreement is provided by the Seller. The Buyer will not be entitled to use them for purposes other than the ones indicated on this contract.

(e) The Buyer declares it has freely chosen the goods from the wide range of the Seller's products according to its free and unquestionable judgment. The Seller does not know and will not be responsible for the practical use of the products by the Buyer. The Seller will not be liable for the use of the products and the suitability of the product for the use and practical purpose the product is bound to, be the product used individually or in connection with other products outside and/or inside complex systems. The Buyer freely chooses the product from the Seller's range and will have to verify the connection and functioning of the product inside the systems and complex equipment the product will be implemented in. The Seller will be exclusively responsible for the correct functioning of the supplied products in accordance with the characteristics and performance indicated by the Seller. The Seller's responsibility is limited to the replacement and/or fixing and/or refund of the invoiced value. Apart from the above-mentioned liability, the Seller will in no case be deemed as responsible for any direct and/or indirect and/or subsequent damage deriving to the Buyer or to any third parties due to defects of the product, including production losses, damage to things, people or others.

(f) The Seller will be entitled to make changes to the product at any moment, due to production needs, provided those changes do not alter the product performance and/or specifications in a substantial way.

8. Retention of Title.

(a) The Product supplied shall remain in the property of the Seller until the date of the full payment by the Buyer of the entire price of the Products and of all amounts due to the Seller. Until that time the Buyer shall hold the Products as the Seller's fiduciary agent and shall keep the Product properly stored, protected and insured.

(b) In the event of any third party action against the Seller's Products delivered under retention of title, the Buyer shall notify such party of the Seller's property and shall immediately inform the Seller about such action. The Buyer shall bear the costs of any intervention.

9. Brands.

(a) Any identification brand and/or any other identification form positioned on the products which are sold by the Seller will not be removed without the Seller's written agreement. Any distortion and/or change of the brand name or technical data or labels applied by the Seller without the Seller's written confirmation, will lapse the Buyer's warranty.

10. Testing.

(a) All the products produced by the Seller are subject to a final standard test before the delivery. That test is to be considered as final and conclusive. Each additional test and/or each special test must be requested and specified by the Buyer on the purchase order, and it has to be accepted by the Seller and will be carried out at the Buyer's expense.

11. Jurisdiction.

(a) Any dispute arising between the parties in connection with the interpretation, validity or performance of the present General Terms and Conditions of Sale and of all the relevant agreements, shall be of the exclusive competence of the referred to the Court of Milan.

(b) It is agreed between parties that the Seller, at its own discretion, may have the faculty to waive the exclusive jurisdiction set forth in paragraph (a) to bring an action against the Buyer in its domicile and before any court of competent jurisdiction.

Name:.....

Street.....

Zip CodeCity.....

VAT number.....

Email.....

Tel/fax/mobile.....

I/We accept the above Terms and Conditions of Trade points 1 to 11
Name of Company or Account Name)

Signed in agreement: Witness Signature:

Full Name: Date: Full Name: Date:

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a.b.s. s.r.l.

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HOW TO REACH US

- By car:**
 A4 Milano - Venezia exit Agrate B.
 or Tangenziale Est (Ring-way)
 exit 12 Cologno Monzese.
- By plane:**
 Milano Malpensa 70 Km
 Milano Linate 16 Km
 Bergamo Orio al Serio 35 Km
- By train:** time 30 min.
 Milano Centrale Station,
 subway green line 2, stop to
 Cologno Monzese, + bus 5 km.



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