



Catalog

a.b.s. fire fighting

B



DK
Brandtechnik

Navigangen 3
2690 Karlslunde
Tlf 70 26 11 66
Fax 70 27 11 66
www.dkbrandtechnik.dk
info@dkbrandtechnik.dk

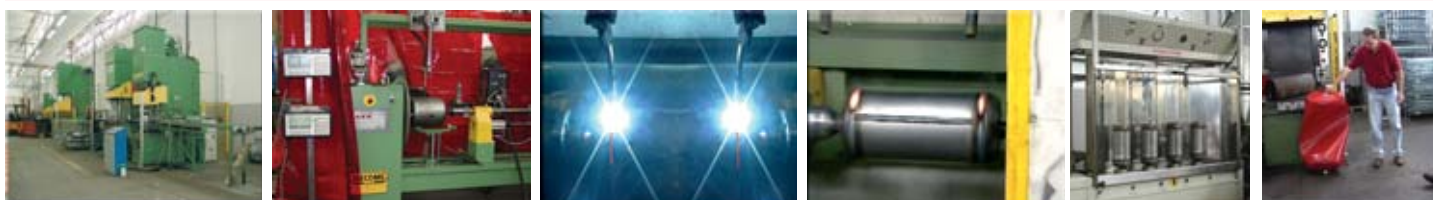


a.b.s. s.r.l.

Lombardia street, 310 - 20047 Brugherio (Milan) Italy
Tel. +39 039 83963.1 (25 line) Fax +39 039 8396452
E-mail info@absfire.it - export@absfire.it - www.absfire.it



COMPANY



A.B.S. S.r.l. 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, offers to the clients a full range of products.

Is always attentive to new market 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..

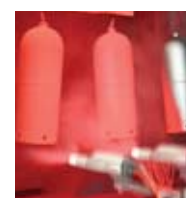
Very active in inert gas systems and HFC 227, UL Listed and

accepted by EPA extremely safe, without any environmental impact, and use unlimited in time, 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 share of the production is exported in most European countries as well Middle East, Asia, Africa, South America.

Owing a modern plant and machinery has the ability to produce on custom request from the smallest fire extinguisher to the large equipments and fix installations. To achieve these objectives we 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.



Fire test on the class 233B with 6 kg powder fire extinguisher

Fire test on 34 A, with 8 minuti of preburning



Tel. +39 039 8396321
+39 039 8396323
25 lines



E-mail:
info@absfire.it
export@absfire.it



Fax. +39 039 2847452
+39 039 8396349



TERMS AND CONDITIONS OF TRADE

1. PRICES and TERMS

The goods shall be purchased or quoted on these Terms and Conditions and at prices prevailing at the order date. These Terms and Conditions shall prevail unless varied in writing.

2. TERMS OF PAYMENT

1. Payment shall be either; by L/C irr and confirmed, or TT in advance, unless prior written agreement. Deposit is requested for non standard materials.
2. If payment is not received by the due date, then the Company may refuse delivery of further goods and stop further credit facilities.
3. The Customer will pay all collection and legal costs actually incurred by the Company (including actual solicitor/client costs) that are related to the collection or recovery of any unpaid account.

3. INTEREST

Payments not made on due date may, at the Company's sole discretion, bear interest from the date of the invoice at the rate of 2% per month until paid (or at such rate as shall be in force at the date of purchase).

4. CREDIT LIMIT

The Company may cancel orders in respect of any undelivered goods or may with hold delivery of future orders if the Customer's account exceeds the credit terms set by the Company.

5. NON RECEIPT OR DAMAGE

All goods must be checked on receipt as to quantity and/or damage. Discrepancies on quantity, weight or damage must be reported by the Customer to both the Carrier and the Company within 3 days from the date of delivery, otherwise the claim may be rejected by the Company. The Company will replace goods covered by approved claims, and transport cost at same conditions of original order.

6. RETURNED GOODS

No goods shall be returned for credit without the Company's prior written approval.

7. CLAIMS

All claims regarding goods supplied or allegations regarding goods not having been supplied as per invoice/packing slip shall be made within 3 days of delivery of the goods and in the absence of any claim the Customer shall be deemed to have accepted the terms of the invoices as correct and accept that the goods specified are as delivered.

8. CLAIMS RETURN POLICY

1. Goods supplied in error are returnable for replacement or credit, providing the error is notified to the Company in writing within 3 days of delivery.
2. No claim will be recognised unless the goods are returned with the original invoice/packing slip, or the number and date of the invoice/packing slip are enclosed.
3. No claim will be recognised unless the returned goods are in sealeable, undamaged and clean condition, and in the original packaging, complete with detachable accessories and instruction manuals.
4. The Company may at its sole discretion accept the return of goods surplus to the requirements of the Customer in which event the credit may not exceed 75% of the original amount charged for those goods.

9. RISK AND DELIVERY

Risk passes to the Customer on delivery of the goods. Delivery shall be deemed complete when the Company gives possession of the goods directly to the Customer, or possession of the goods is given to a carrier, courier, or other bailee for the purposes of transmission to the Customer.

10. WARRANTY

1. Except as provided in the European Communities rules, and by the manufacturer's written warranty (if any) the Company makes no representation, condition, warranty or promise, express or implied, in respect of goods supplied to the Customer.
2. Except as provided in the European Communities rules, the Company shall not be liable for any loss of any kind whatsoever suffered by the Customer as a result of a breach of any of the Company's obligations regarding the supply of goods or any negligence on the part of the Company, its servants, agents or contractors, nor shall the Company be liable for any loss damage or injury caused to the Customer's servants, agents, contractors, customers or other persons. The Customer will indemnify the Company against any claim by such persons.
3. The liability of the Company arising from a breach of any of the Company's obligations regarding the supply of goods, or from any negligence on the Company's part, its servants, agents or contractors will be limited to damages which will not exceed the price of the goods supplied.
4. Where the Customer purchases goods for a particular purpose, it is the Customer's sole responsibility to ensure that the goods will be suitable for the Customer's purpose, and the Company shall have no liability whatsoever in the event that the goods are not fit for the Customer's

purpose, notwithstanding any statements made to the Customer by the Company or its officers or employees.

11. OWNERSHIP

1. **Ownership reserved:** It is expressly agreed that ownership is reserved and legal and equitable title to and property in all goods supplied by the Company is and remains vested in the Company until payment in full has been received by the Company.
2. **Recovery of Goods:** The Company may at any time before sale of any goods by the Customer recover and take repossession of such goods and otherwise exercise in relation to those goods any of its rights where those rights are also covered by common law, contract, statute or in any other way.

12. PRIVACY ACT

1. The Customer authorises the Company:
 - (a) To collect and retain and use personal information about the Customer (the information contained in this document) for the following:
 - (i) Assessing the Customer's credit worthiness.
 - (ii) Administering the financing, whether directly or indirectly of the Customer contracts(s) and enforcing the Company's rights thereunder.
 - (iii) Marketing goods and services provided by the Company.
 - (b) To provide the information:
 - (i) to any person for the foregoing purposes
 - (ii) to employees and agents of the Company and any other person, in the ordinary course of business, for any of the foregoing purposes
 - (iii) to credit agencies for the purpose of maintaining effective credit records.
2. The Customer acknowledges:
 - (a) that the information is held by the Company at the address specified in this document, notwithstanding that it may also be held elsewhere by the Company and other persons for the purposes described above.
 - (b) that where information can be readily retrieved the Customer shall have access to it, the right to request correction and the right to be notified of action taken in response to any such request, subject to payment of any reasonable charge.
 - (c) that the aforesaid authorisations are irrevocable.

13. PERSONAL GUARANTEE OF COMPANY DIRECTORS OR TRUSTEES

If the Customer is a company or trust, the director(s) or trustee(s) signing this contract, in consideration of the Company agreeing to supply goods and grant credit to the Customer at their request, also sign this contract in their personal capacity and jointly and severally personally undertake as principal debtors to the Company the payment of any and all monies now or hereafter owed by the Customer to the Company and indemnify the Company against non-payment by the Customer. Any personal liability of a signatory hereto shall not exclude the Customer in any way whatsoever from the liabilities and obligations contained in this contract. The signatories and Customer shall be jointly and severally liable under the terms and conditions of this contract and for payment of all sums due hereunder.

14. VALIDITY.

If a term or condition herein is held by a Court to be unenforceable then such term or condition shall be severed from all other terms and conditions without affecting the enforceability of those other terms and conditions.

15 Jurisdiction:

Any dispute concerning these conditions will be competent the court of Milan Italy.

16: Solve et repete

Buyer expressly waives the right to plead any exceptions to avoid or delay payment of the debit under these terms, until full payment in full in favour of the supplier.

The customer, declare to have carefully read and accepts the clauses in the above point 1 to 16 points.

Stamp, full address and signature:

.....

VAT number.....

I/We accept the above Terms and Conditions of Trade points 1 to 16
Name of Company or Account Name)

Signed in agreement: Witness Signature:

Full Name: Date: Full Name: Date:

Pages

Pages

1

EXTINGUISHERS EN3 and Marine MED

Portable EN 3 part 7,8,9.	5 to 11
Automatic fire ext. Powder, foam, HFC227	12
Trolleys EN 1866-1	13 to 21
Portable Marine MED 96/98 EC, N° A.1/3.2	23 to 29
Trolleys Marine MED 96/98 EC, N° A.1/3.52	30 to 38
Marine Boat system Easyfire Firekill ISO 9094	39 to 40
Twin Agents Trolleys Powder & Foam	22

ACCESSORIES FOR FIRE EXTINGUISHERS

Cabinets plastic	41,42,54
Cabinets fiberglass	42 and 74
Cabinets steel and stainless	43,74
Floor stand for fire ext.	44
Blankets fiberglass	54
Brackets, wall type	46
Brackets, cars trucks, boats	45,46
Covers rain and dust	46
Hose holders, strip belts	46
Manometers	49
Hoses	47,48
Horns for Co2 Powder.	45,46
Pistol, guns	47,48
Ball valves	49
Valves for CO2, powder, foam	49
Safety valves pins, O'rings, caps, cartridges	49,50
Safety pins	50
Caps, 2", 4"	50
O'Rings	50
Cartridges CO2 portable and trolleys	50,51
Sprinklers for automatic extinguishers	51
Seals	51
Dip tubes	51
Wheels	51
Spanner torque force	52
Inspections lamps, adaptors	52
Weighing scales, pouncing pliers	53,63
Cabinet book recorder, key guard, blankets	54

2

REFILLING MACHINES

Refilling machines dry powder	55,56,57,58
Compressor with dryer dehumidifier	58
Compressors CO2	59,60
Testing cylinders, dryers, accessories	61,62
Weighing scales, dinamometers	63
Compressors High pressure 300 bar	64

3

CHEMICAL EXTINGUISHANT PRODUCTS

Dry powder	65
Foam compound	66
Sealfire supercompound	66

4

FIRE HOSES, CABINETS, ACCESSORIES

Fire hoses EN 14540 & MED	67,68,70
Nozzles, water branchpipe EN 671 & MED	68,69,70
Hose systems with lay flat hoses EN 671-2	71,72
Standing foots for cabinets	69-70
Hose reels EN 671-1	73
Hose cabinets	74
Coupling hoses, landing valves	75
Elbow 90° for hydrants	76
Pillar hydrants	76
Breechings connections	77
Underground hydrants	77
Pump test hoses	78
Spanners for hose and hydrants	78
Standpipe for hydrants	77
Gate valves, flanges, bolts, etc	77
Roller for fire hoses	78
Binding tools for lay flat hoses	78
Test equipments for flow and pressure	79

5

FIXED INSTALLATIONS

HFC 227 FM200 modules and accessories	80,81,82
Inert gases Nyrtrargon modules and accessories	83,87
Door Fan Test	87
Dry Powder skid	88
Sprinklers, UL wet, dry, deluge valves, accessories	89 to 92
Grooved couplings, grooved machinery	93,94
CO2 systems, cylinder, valves, accessories	95 to 99
Liquid level indicators	100
Foam equipments, bladder tanks, mixers, nozzles	101 to 105
Pre-assembled pump and motor pump	104
Smoke detectors, control panel, accessories	107,108

6

FIRE DOORS

Fire doors	109,110
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7

SAFETY EQUIPMENTS

Training LPG fire test	
Smoke machine maker for test and training	111
Safety equipments cabinets	110
Fire suites	111
Safety cabinets according to EN 14470-1	112
Protection equipments and accessories	115-116
Fog fire forest blower	117

8

Maintenance Portable fire extinguishers

Maintenance: does not exist one standard valid on all european countries. Italian Standard UNI 9994 is the most restrictive rule existing in Europe, requiring service every 6 months, while in most countries it is once or twice per year. 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 some countries is **suggested** to change every 5 years. 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, anyway 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.

Fire classes according to European standards.



Class A: fires of solid materials, generally of an organic origin such as, paper, wood, rubber and plastic, which combustion takes place with formation of embers.




Class B: fire involving flammable or combustible liquids, gasoline (petrol), grease, oils, paints, etc



Class C: fires involving flammable gases such as LPG, acetylene, methane, propane, etc. No test requested by EN3 standards for powder or CO2








Class D: fires involving light slag processing metals that burn, such as lithium, magnesium, potassium, sodium, titanium, zirconium. No test requested by EN3 standards.

According to EN3 16.2, for water based extinguishers, label must show if passed or not **electrical conductivity** test as per EN3.7 appendix "C". The symbol  has become obsolete, not more in use. test not requested by EN3 standards for powder or CO2



Class F: fires involving deep fried oils and fats, generally in restaurant kitchens etc.

CLASS OF FIRES							NOTES
		Wood Paper Plastic	Flammable liquids	Flammable gases	Light Metals potassium sodium ec.	Kitchens oils and fats	
WATER	Pure water Lifewater	YES	NO	NO	NO	NO	1) When equipped with special spray nozzle
FOAM	Water + additive Sealfire®	YES	YES	NO	NO	YES (2) Sealfire® F	2) Potassium Sulphate foam
POWDER	ABC	YES	YES	YES (6)	YES (3)	NO	3) Special powder chlorine, boron, ec..
	BC	NO	YES	YES (6)	with special powder	NO	4) Limited outdoor
CARBON DIOXIDE (CO2)		Limited 5	YES	YES (6)	NO	NO	5) Good for initial fires when no embers involved
HALOGENATED Foxer S® HFC		4 - 5	YES	YES (6)	NO	NO	6) After the use shut off the main supply gas valve to avoid explosion risks.

Portable fire extinguishers with Sealfire® and Lifewater, It 2/3/6/9 have special spray nozzle, and may be used under live electricity till 1.000 volt. (standard EN3). EN3 do not require electricity test for Dry powder and CO2. Suggested limited use at 1,000 Volt although tested at 35,000 volt

Water

It has a cooling effect, best effect when used with spray nozzle enabling the use under live electricity. Special additives (SEALFIRE A), gives higher efficiency on class A fire.

Foam

AFFF(Aqueous Film Forming Foam) extinguish the fire by taking away the heat, separate the oxygen element from flammable liquid, it creates a thin film that floats over the combustible. **Sealfire** is the best and stronger additive, available in the market.

CO2

extinguish the fire by reducing the oxygen element of the fire triangle and by removing the heat with a very cold discharge. Non conductive of electricity. EN3 do not require test on class C although very efficient.

Foxer

It is a liquid gas when pressurized inside the extinguisher. It is an HFC. HFC stands for hydrofluorocarbon.

These gases contain a mixture of elements, with prominent amounts of carbon, hydrogen, and fluorine.

It prevents the chemical reaction between heat, fuel and oxygen and halts the production of fire sustaining "free-radicals", thus extinguishing the fire.

It is clean, do not leave residue, not conductive, safe for humans. Based on blend of HFC227, HFC236, HFC134, do not harm Ozone layer, have no law restrictions in most countries on the world. Indispensable for fires against any electronic equipment, high value sites, museum, banks, etc.

It is clean, do not leave residue, not conductive, safe for humans.

Powder

Ammonium Phosphate (MAP) is the most used having efficacy on fires class A,B, and C. Melt and flow at ~177°C creating a protective film on the class A wires embers. Extinguish the fire primarily by interrupting the chemical reaction of the fire triangle. It prevents the chemical reaction between heat, fuel and oxygen and halts the production of fire sustaining "free-radicals", thus extinguishing the fire.

Sodium bicarbonate, good efficiency only in Class B, C.

Potassium Bicarbonate, know as Purple K, twice efficient than Sodium Bicarbonate.

Monnex, Urea Complex & Potassium bicarbonate, used on Class B and C fires. More effective than all other powders due to its ability to deprecitate (where the powder breaks up into smaller particles) in the flame zone creating a larger surface area for free radical inhibition.

WIDELY USED IN HIGH RISK AREA, REFINERY, CHEMICAL INDUSTRIES.

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	Risk type:		
	Low	Medium	High
13 A - 89 B	100 m²	-	-
21 A - 113 B	150 m²	100 m²	-
34 A - 144 B	200 m²	150 m²	100 m²
55 A - 233 B	250 m²	200 m²	200 m²

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.



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.



13111

Kg 1

**8 A
34BC**



13122

Kg 2

**13 A
113BC**



13123

Kg 2

**13 A
89BC**



13131

Kg 3

**21 A
144BC**



13142

Kg 4

**27 A
183BC**

Standard wall bracket

From 3 kg to 12 kg.
Suitable for hook on the brass valve.



21001

Optional brackets

Suitable for cylinders with hook welded on the back.

20919 6 kg

20919_1 9 kg



Latch closure +
safety pin.

20907 6 Kg

20093 9 Kg

20908 12 Kg



20052



20431



20428

3 Kg

Code	Kg Powder	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallet 80x120	
							Q.ty	kgs
13111	1	85	2	335	4	7"	576	1.150
13123	2	110	3.3	370	5	12"	288	1.000
13122	2	115	3.1	310	5	14"	240	860
13131	3	130	5.1	425	5	16"	132	670
13142	4	140	6.8	485	5	16"	132	910

standard supplied
with wire steel
bracket



13162

Kg 6

34 A
233BC

13169

Kg 6

55 A
233BC

13160

Kg 6

43 A
233BC

Cylinders available in stainless steel
and as non magnetic assembly.



13192

Kg 9

55 A
233BC

13172

Kg 12

55 A
233BC

Optionals

Plastic foot

21048

6 kg

21049

9 / 12 kg



21815 Valve M45x1.5

Schroeder
check valve +
locked seal.

Swivel
neck ring

21162



20052

Standard bracket



13163

Kg 6

34 A
233BC

20523 Gauge



Gauge bourdon 40 mm
thread npt unmovable.



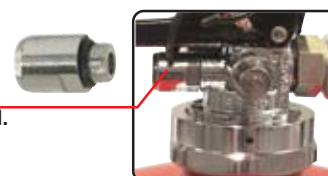
Foot and bottom
manufactured in single
pressing process:
Will never rust.

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.

Code	Kg Powder	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallet 80x120	
							Q.ty	kgs
13160	6	160	9.7	530	7	18,5"	72	750
13162	6	160	10.2	600	7	18,5"	72	745
13163	6	160	10	610	7	18,5"	72	745
13169	6	160	10.1	570	7	18,5"	72	755
13191	9	190	14	600	7	18"	40	580
13172	12	190	17.5	660	7	24"	40	730

21161

Safety valve
preassembled.
Bursting disc
fast release.



- 1 Extinguishers with internal CO2 cartridges allow better and professional maintenance.
Size M74 filling cap allows easier inspection of dry powder and weight checking of the CO2 cartridge.
More expensive compared with stored pressure, it is indicated when reliability in professional places is the priority.



13167

Kg 6

34 A
233BC

13194

Kg 9

55 A
233BC

13173

Kg 12

55 A
233BC

Internal cartridge Portable fire extinguishers PURPLE K or MONNEX Powder



Purple K has higher efficacy on fires class B and has much better performance compared with sodium bicarbonate or multipurpose ABC.

13168

Kg 6

233BC



Monnex, is the most powerful dry powder against any kind of fuel and gas. Product for professional use in refineries and high risk industries.

MONNEX

13193

Kg 9

233BC

Standard wall bracket

Hook is welded on the back of cylinder.



20052



Optional brackets

20919 6 kg

20919_1 9 kg

Steel back wall holder and latch closure.



Strong steel, latch

20907 6 Kg

20093 9 Kg

20908 12 Kg

Code	Kg Powder	Ø mm	Kg full~	H mm~	Jet mm~	Time sec~	Pallet 80x120	
							Q.ty	kgs
13167	6	160	10.7	470	7	18"	72	795
13168	6	160	10.7	470	7	18"	72	795
13193	9	190	16	605	7	19"	40	670
13194	9	190	16	545	7	19"	40	670
13173	12	190	18.5	605	7	19"	40	790

CO2 carbon dioxide, is excellent against fires involving flammable gases Class **B**. EN 3 standard do not require testing on Class **C**, and although excellent is suggested shut down the source of gas leakage.
Limited capacity on class **A** for initial fires when not embers involved. Not electric conductive.



Steel 35 CrMo4 cylinder

13221

Kg 2

34B



Aluminium cylinder

13222

Kg 2

34B

13222_1

Kg 2

34B

NON
MAGNETIC



Side swivel
freeze insulated
horn high
efficacy

13223

Kg 2

70B



Aluminium cylinder

13252

Kg 5

113B

13252_1

Kg 5

NON
MAGNETIC
Kg 5

113B

Dielectric
discharge
horn
high efficacy



Steel 35 CrMo4 cylinder

13251

Kg 5

113B

13253

Shorter cylinder 6,7 Lt,
tested at 300 bar

113B

Dielectric
discharge
horn
high efficacy

21800



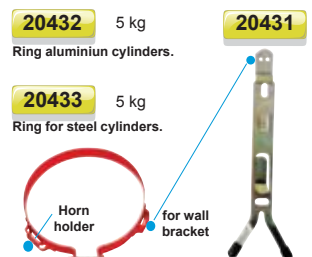
Extinguishers non magnetic, usually are used in hospitals to avoid interference with the computer scanner, RMA, and diagnostic equipments.

Standard wall brackets

Suitable for hook on the brass valve.



Optional brackets



Vehicle Brackets



Code	Kg CO2	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallet 80x120	
							Q.ty	kgs
13221	2	105	6.5	560	3	8"	100	810
13222	2	111	5	535	3	8"	100	610
13223	2	105	6.5	560	3	10"	100	810
13251	5	136	14	735	3.5	12"	50	735
13252	5	152	12	720	3.5	12"	50	600
13253	5	136	15	690	3	14"	50	735

Aluminium

Aluminium

- 1 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.

- Longer time of discharge!
- Visibility the entire time of discharge
- Not dirty! Water 98% + 2% additive
- Ecological, biodegradable to 99,8%
- Easier use against flammable liquids, cooling and sealing effect, no flashback.



13331

Lt 3

13 A
144B



13362

Lt 6

27 A
233B

13392

Lt 9

34 A
233B



SEALFIRE F, and
extending lance gives
best performance against
fires of oils and fat fires.

High design and style, stand
foot, swivel valve, high volume
of cylinder allow longer jet and
professional performances.



13366

Lt 6

34 A
233B

This model is ideal for
homes, small
restaurants, campings.



13320

Lt 2

8 A
55B

Official fire test, carried
by professional
fireman as EN3.7
233 B
6 lt Sealfire®
1 minute preburning
900 °C terrific hot

After only 5"seconds.
Flames and heat already
reduced.

5 seconds



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

10 seconds



15 seconds

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

EXTRAORDINARY!



Code	Lt Sealfire	Ø mm	Kg full~	H mm~	Jet mm~	Time sec~	Pallet 80x120	
							Q.ty	kgs
13320	2	110	3.75	405	3	12"	288	1.000
13331	3	130	5.2	425	4	16"	132	670
13361	6	160	10.3	570	5	30"	72	755
13365	6	160	10.5	570	5	45"	72	755
13366	6	160	10.3	600	5	30"	40	640
13391	9	190	15	635	7	38"	40	640

Optionals

Plastic foot



21048

Lt 6

21049

Lt 9

Metal hose holder
ring



20015

Lt 6

20015

Lt 9

Hose holder strap



20424

Foam Sealfire S extinguishers are the best restaurant kitchen appliance hand portable fire extinguishers you can purchase. Both have been tested and approved for oils and fat fires of restaurant kitchen hazards. Superb performances on flammable liquids fires as well on class A fires with strong cooling and sealing A.F.F.F effect. Passed Electricity conductivity test as EN3 requirements.

These models with internal cartridges allow professional and easy maintenance.

The **Sealfire S** additive is sealed in a small plastic cartridge which is released only at the moment of the activation.

The superior fire fighting capability of the **Sealfire S** agent is placed exactly where you aim it with no chemical residue to clean up.

Optional: antifreeze -30°C for cold environments zones. PLASTCOAT gives 10 year guarantee against internal corrosion



13367

Lt 6



13394

Lt 9



Foam cartridge

33397 Sealfire S

Used for the extinguisher 6 and 9 Lt foam internal cartridge.



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

Code	Lt sealfire	Ø mm	Kg full~	H mm~	Jet mm~	Time sec~	Pallet 80x120	
							Q.ty	kgs
13367	6	160	11.5	550	5	24	72	828
13394	9	190	15	550	5	35	40	600

9 Its LIFEWATER®

LIFEWATER is a special additive added to pure water which improves performances in fires of class A such us, 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, has the cylinder with internal coating PLASTCOAT which is guaranteed 10 years against corrosion.

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

DIELECTRIC non conductive
CLEAN no residues
LIFEWATER only water + additive
Ø POLLUTION 100 % biodegradable



13393

Lt 9

27 A

Code	Lt water	Ø mm	Kg full~	H mm~	Jet mm~	Time sec~	Pallet 80x120	
							Q.ty	kgs
13393	9	190	15.3	655	5	38"	40	640



1 Clean Agent, Cleangreen, and Foxer S® are extinguishant gases ecologic and clean. Main components is a blend of HFC236 , HFC 227, HFC 134, recognized in the NFPA 2001 and accepted by EPA without limitations. They do not leave residue 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.

ENVIRONMENTALLY ACCEPTABLE

EPA approved as "Clean Agent" for Class A, B, use of HFC 236, HFC 227, HFC 134.
Low GWP (Global Warming Potential)
ZERO ODP (Ozone Depletion Potential)
Short Atmospheric Lifetime

CLEAN

Leaves no residue

USER FRIENDLY

Maximum visibility during discharge
No electrical conductivity back to the operator
No thermal or static shock



13420

Kg 2

70B



13410

Kg 1

5 A
34B

13440

Kg 4

13 A
113B

13461

Kg 6

113B

Code	Kg	Ø mm	Kg full~	H mm~	Jet mm~	Time sec~	Pallet 80x120	
							Q.ty	kgs
13420	2	130	4.1	425	5	14	576	1.150
13461	6	160	9.7	530	5	24	132	910
13410	1	85	2	335	2	10	576	1.150
13440	4	140	6.8	485	3	25	132	910

Foxer S

Foxer S

Clean Blue

Clean Green

Automatic fire extinguishers



On request
in Stainless steel

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. The working temperature normally is chosen nearly 30°C over the higher reachable in the area risk. Typically used in heater rooms, storage of flammable liquids, unattended areas.

24001

Sprinkler valve

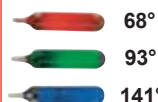
68°C bulb it is the standard mounted



24003

93°C sprinkler valve

Bulbs colours



Spare part

25006

Bulb at 93°C nut included



Powder

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

Code	Kg	Mq~	D mm	H mm
15103	2	2	190	190
15105	4	6	245	350
15109	6	9	245	350
15111	10	12	245	450
15110	12	14	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.

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

HFC 227 extinguisher

Is a clean gas, does not leave any residue, no need cleaning, the gas quickly knocks down the flames in seconds. Versus foam or powder is more expensive **but the time saved for cleaning worth its cost ten times.**

Code	Kg	D mm	H mm	M³*
15109H	6	245	350	10
15110H	12	245	450	20
15225H	24	360	450	40

* 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.

PYROKEY® KITCHEN FIRE SYSTEM

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 is equipped with a control panel 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.

15400 PYROKEY® system thermostatic detection

PYROKEY® system includes:

- Cylinder loaded with Sealfire class F complete with valve
- Aluminium pipe for electric wire protection with couplings
- Antifire electric wire
- Detectors temperature set 141°C;
- Galvanized steel pipe with Couplings and brackets
- Spray nozzles
- Wall or floor bracket for the cylinder;
- Control panel with rechargeable battery 12V - 2Ah including voltage transformer (from 230V to 12V);



97199
Control Panel



47019
Detector

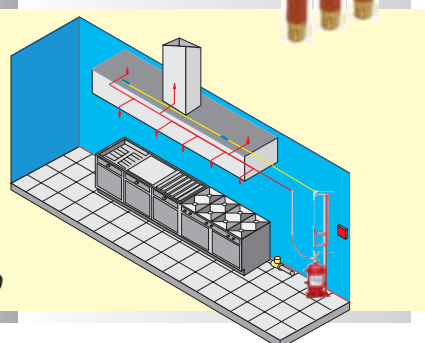
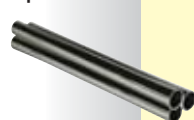
Spray nozzle with protection cap



Elbow, coupling, for aluminium pipe



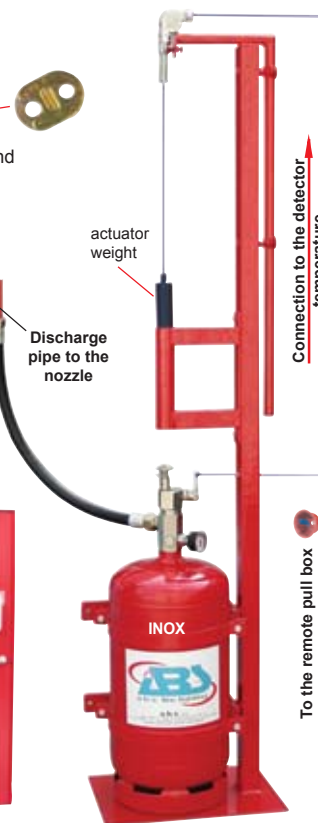
Pipe Zinc steel



15401 PYROKEY® system with fusible link no power supply

PYROKEY® system includes:

- Cylinder loaded with Sealfire class F complete with valve;
- Frame
- Fusible link set 138°C;
- Galvanized steel pipe with couplings and brackets;
- Spray nozzles with protection caps;
- Local manual actuator
- Remote actuator pull box
- Pulleys with wire steel
- Pressure switch;
- Electrovalve G1/2" -12V DC shut OFF for gas LPG



Available also with cabinet



Models:
12 / 30 / 50 / 100
Litres stainless steel cylinders

The largest range of wheeled fire extinguishers available **approved EN 1866-1**

Certificates Masini Institute 1207 - 1442-2009

Trolley fire extinguishers dry chemical powder

STORED PRESSURE

N2 or CO2 CYLINDER OPERATED



Trolley fire extinguishers Foam A.F.F.F.

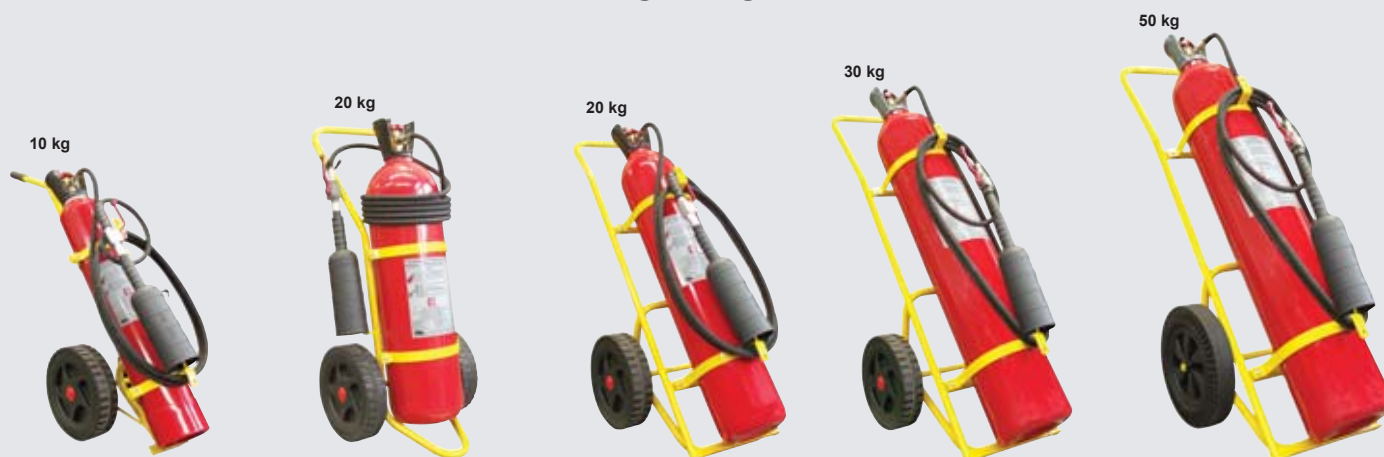
FOAM SEALFIRE A.F.F.F. Permanent stored pressure

FOAM SEALFIRE A.F.F.F. N2 or CO2 Cartridge operated



Trolley fire extinguishers Carbon dioxide CO2

CARBON DIOXIDE




KG 25

Produced in 3 version:

Stored pressure.
CO2 Cartridge
N2 Cartridge

Options:

- Additional horn 
- Hose from 5 up to 10 mt.
- Cap 4" with CE safety valve 1", check valve, inspection gauge.
- Detachable frame may be colored, red, or black.

Detachable frame



Frame yellow for better visibility (on request red or black). No welding on the cylinder ensure better and higher safety.

Welded frame.



The axe and carrying handle are welded on the cylinder body, may cause easier corrosion, less safety.



Swivel coupling

It allows easy unrolling of the hose avoiding twisting



On request available with N2 pressure reducer

18130_1



18131



Standard



Optional



* Stainless steel cylinder All types fire class approved A IVB

Code	Type of frame	Type of valve or cap	Jet length mt~	Discharge time sec~	Std. packing dimension for transport			
					Height mm~	Width mm~	Depth mm~	Weight kg~
Most popular								
STORED PRESSURE								
18130	Welded	2"	11	25"	1.020	430	535	55
18130_1	Detachable	2"	11	25"	1.080	430	535	55
CO2 EXTERNAL CARTRIDGE								
18131	Welded	2"	11	25"	1.020	430	535	60
18131_1	Welded	4"	11	25"	1.020	430	535	60
18131_2	Detachable	4"	11	25"	1.020	430	535	60
18131_5	Detachable	2"	11	25"	1.020	430	535	60
18131_7	Detachable	2"	11	25"	1.020	430	535	60
NITROGEN EXTERNAL CARTRIDGE								
18131_10	Welded	2"	11	25"	1.020	430	535	60
18131_11	Welded	4"	11	25"	1.020	430	535	60
18131_12	Detachable	4"	11	25"	1.020	430	535	61
18131_17	Detachable	2"	11	25"	1.020	430	535	61

1 **KG 50**

Best quality German powder ABC multipurpose, **Furex**, or **Total**.
Bureau Veritas PED 97/23 CE mark, sand blasting, epoxy paint high resistance,
excellent manouvability.

Produced in 3 version:

Stored pressure.
CO2 Cartridge
N2 Cartridge

Options:

- Aluminium horn
- Hose from 5 up to 10 mt.
- Cap 4" with CE safety valve 1", check valve, inspection gauge.
- Detachable frame may be colored, red, or black.

Optional 21038_2

Horn in aluminium,
shock resistant
for 50/100/150 kg.

**18164_1****Swivel coupling**

It allows easy unrolling of
the hose avoiding twisting



On request
available with
N2 pressure reducer

**18163****Standard****Optional****Stored pressure**

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

Code	Type of frame	Type of valve or cap	Jet length mt~	Discharge time sec~	Std. packing dimension for transport			
					Height mm~	Width mm~	Depth mm~	Weight kg~
Most popular								
STORED PRESSURE								
18164	Welded	2"	11	43"	1.050	450	550	80
18164_1	Detachable	2"	11	43"	1.120	450	550	80
CO2 EXTERNAL CARTRIDGE								
18163	Welded	2"	11	41"	1.050	450	550	85
18163_1	Welded	4"	11	41"	1.050	450	550	85
18163_2	Detachable	4"	11	41"	1.050	450	550	85
18163_5	Detachable	2"	11	41"	1.050	450	550	85
18163_7	Detachable	2"	11	41"	1.050	450	550	85
NITROGEN EXTERNAL CARTRIDGE								
18163_10	Welded	2"	11	41"	1.050	450	550	85
18163_11	Welded	4"	11	41"	1.050	450	550	85
18163_12	Detachable	4"	11	41"	1.050	450	550	87
18163_17	Detachable	2"	11	41"	1.050	450	550	87

KG 100

Produced in 3 version:

Stored pressure.
CO2 Cartridge
N2 Cartridge

Options:

- Aluminium horn
- Hose from 5 up to 10 mt.
- Cap 4" with CE safety valve 1", check valve, inspection gauge.
- Detachable frame may be colored, red, or black.

Optional 21038_2



Horn in aluminium,
shock resistant
for 50/100/150 kg.



18166_12



Swivel coupling
It allows easy unrolling of
the hose avoiding twisting



On request
available with
N2 pressure reducer



18181_1

Standard



Optional



Stored pressure



* Stainless steel cylinder All types fire class approved A IVB

Code	Type of frame	Type of valve or cap	Wheels diameter mm~	Jet length mt~	Discharge time sec~	Std. packing dimension for transport			
						Height mm~	Width mm~	Depth mm~	Weight kg~
Most popular									
STORED PRESSURE									
18181	Welded	2"	300	12	99"	1.290	540	700	155
18181_1	Detachable	2"	400	12	99"	1.290	540	700	155
CO2 EXTERNAL CARTRIDGE									
18166	Welded	2"	300	12	99"	1.290	540	700	85
18166_1	Welded	4"	400	12	99"	1.290	540	700	166
18166_2	Detachable	4"	300	12	99"	1.290	540	700	160
18166_5	Detachable	4"	400	12	99"	1.290	540	700	166
18166_7	Detachable	2"	400	12	99"	1.290	540	700	166
NITROGEN EXTERNAL CARTRIDGE									
18166_10	Welded	2"	300	12	99"	1.290	450	550	160
18166_11	Welded	4"	300	12	99"	1.290	540	700	160
18166_12	Detachable	4"	400	12	99"	1.296	540	700	166
18166_17	Detachable	2"	400	12	99"	1.296	540	700	166

1

Lt 25 & 50

Produced in 2 version, stored pressure:
from 0 to 60°C and antifreeze up to -60°C.

Options:

- Hose from 5 up to 10 mt.
- Detachable frame may be colored, red, or black.
- Antifreeze up to -30°C

Top quality AFFF SEALFIRE, has the best sealing effect, specially developed for use in portables and trolleys extinguishers.

Bureau Veritas PED 97/23 CE mark, sand blasting, epoxy paint high resistance, excellent maneuverability.

These trolleys are a must in high risk areas such as refinery, flammable storage, warehouse of textiles, papers, rubber.



18225_1

**Swivel coupling**

It allows easy unrolling of the hose avoiding twisting



18251_1

Stored pressure**Replacement spare charge for foam**

- 31303** lt 50
- 31303_1** lt 100
- 31303_2** lt 150



Ready to use, just mix with water. Instructions included.

All types fire class approved A IVB

STAINLESS STEEL cylinder or as alternative cheaper coated inside against corrosion

* **Stainless steel** (X) **Painted inside** Optional: Antifreeze up to -30°C

Code	Type of frame	Type of valve or cap	Jet length mt~	Discharge time sec~	Std. packing dimension for transport			
Most popular					Height mm~	Width mm~	Depth mm~	Weight kg~
25 Lts STORED PRESSURE								
18225	Welded	2"	8	34"	1.020	390	535	60
18225_1	Detachable	2"	8	34"	1.020	390	535	61
18225_2	Welded	2"	8	34"	1.020	390	535	60
18225_3	Detachable	2"	8	34"	1.020	390	535	61
50 Lts STORED PRESSURE								
18251	Welded	2"	8	45"	1.140	450	550	80
18251_1	Detachable	2"	8	45"	1.140	450	550	82
18251_2	Welded	2"	8	45"	1.140	450	550	80
18251_3	Detachable	2"	8	45"	1.140	450	550	82

Lt 50

Produced in 2 version:

CO2 Cartridge

N2 Cartridge

Top quality AFFF SEALFIRE, has the best sealing effect, specially developed for use in portables and trolleys extinguishers.

Bureau Veritas PED 97/23 CE mark, sand blasting, epoxy paint high resistance, excellent maneuverability.

These trolleys are a must in high risk areas such as refinery, flammable storage, warehouse of textiles, papers, rubber.

Options:

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



Swivel coupling
It allows easy unrolling of the hose avoiding twisting



On request
available with
N2 pressure reducer



Standard



Optional



2" valve.



All types fire class approved A IVB

STAINLESS STEEL cylinder or as alternative cheaper coated inside against corrosion

* Stainless steel (X) Painted inside Optional: Antifreeze up to -30°C

Code	Type of frame	Type of valve or cap	Jet length mt~	Discharge time sec~	Std. packing dimension for transport			
Most popular					Height mm~	Width mm~	Depth mm~	Weight kg~
CO2 EXTERNAL CARTRIDGE								
18260	Welded	2"	8	47"	1.145	455	550	85
18260_1	Welded	4"	8	47"	1.145	455	550	85
18260_2	Detachable	4"	8	47"	1.145	455	550	85
18260_3	Welded	2"	8	47"	1.145	455	550	85
18260_4	Welded	4"	8	47"	1.145	455	550	85
18260_5	Detachable	4"	8	47"	1.145	455	550	85
18260_6	Detachable	2"	8	47"	1.145	455	550	85
18260_7	Detachable	2"	8	47"	1.145	455	550	85
NITROGEN EXTERNAL CARTRIDGE								
18260_10	Welded	2"	8	47"	1.145	455	550	85
18260_11	Welded	4"	8	47"	1.145	455	550	85
18260_12	Detachable	4"	8	47"	1.145	455	550	85
18260_13	Welded	2"	8	47"	1.145	455	550	85
18260_14	Welded	4"	8	47"	1.145	455	550	85
18260_15	Detachable	4"	8	47"	1.145	455	550	85
18260_16	Detachable	2"	8	47"	1.145	455	550	85
18260_17	Detachable	2"	8	47"	1.145	455	550	85

1

Lt 100

Produced in 3 version:

Stored pressure.
CO2 Cartridge
N2 Cartridge

Top quality AFFF SEALFIRE, has the best sealing effect, specially developed for use in portables and trolleys extinguishers.

Bureau Veritas PED 97/23 CE mark, sand blasting, epoxy paint high resistance, excellent maneuverability.

These trolleys are a must in high risk areas such as refinery, flammable storage, warehouse of textiles, papers, rubber.

Options:

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



Swivel coupling
It allows easy unrolling of the hose avoiding twisting



18281_1



18289_11



On request
available with
N2 pressure reducer



18289_17

All types fire class approved A IVB

STAINLESS STEEL cylinder or as alternative cheaper coated inside against corrosion

* Stainless steel (X) Painted inside Optional: Antifreeze up to -30°C

Standard

2"
CE

Stored pressure



Optional

4"
CECO
2

Handwheel 2" valve.



CE

N
2

Code	Type of frame	Type of valve or cap	Jet length mt~	Discharge time sec~	Std. packing dimension for transport			
Most popular					Height mm~	Width mm~	Depth mm~	Weight kg~
STORED PRESSURE								
* 18281	Welded	2"	8	99"	1.330	550	700	160
* 18281_1	Detachable	2"	8	99"	1.330	550	700	166
X 18281_2	Welded	2"	8	99"	1.330	550	700	160
X 18281_3	Detachable	2"	8	99"	1.330	550	700	166
CO2 EXTERNAL CARTRIDGE								
* 18289	Welded	2"	8	99"	1.335	550	670	160
* 18289_1	Welded	4"	8	99"	1.335	550	670	160
* 18289_2	Detachable	4"	8	99"	1.335	550	670	166
X 18289_3	Welded	2"	8	99"	1.335	550	670	160
X 18289_4	Welded	4"	8	99"	1.335	550	670	166
X 18289_5	Detachable	4"	8	99"	1.335	550	670	166
X 18289_6	Detachable	2"	8	99"	1.335	550	670	166
* 18289_7	Detachable	2"	8	99"	1.335	550	670	160
NITROGEN EXTERNAL CARTRIDGE								
* 18289_10	Welded	2"	8	99"	1.335	550	670	160
* 18289_11	Welded	4"	8	99"	1.335	550	670	160
* 18289_12	Detachable	4"	8	99"	1.335	550	670	166
X 18289_13	Welded	2"	8	99"	1.335	550	670	160
X 18289_14	Welded	4"	8	99"	1.335	550	670	160
X 18289_15	Detachable	4"	8	99"	1.335	550	670	166
X 18289_16	Detachable	2"	8	99"	1.335	550	670	166
* 18289_17	Detachable	2"	8	99"	1.335	550	670	166

Lt 150

Produced in 2 version:

CO2 Cartridge

N2 Cartridge

Top quality AFFF SEALFIRE, has the best sealing effect, specially developed for use in portables and trolleys extinguishers.

Bureau Veritas PED 97/23 CE mark, sand blasting, epoxy paint high resistance, excellent maneuverability.

These trolleys are a must in high risk areas such as refinery, flammable storage, warehouse of textiles, papers, rubber.

Options:

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



Swivel coupling
It allows easy unrolling of the hose avoiding twisting



On request
available with
N2 pressure reducer



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



2" valve, 1/4" safety valve



All types fire class approved A IVB

STAINLESS STEEL cylinder or as alternative cheaper coated inside against corrosion

* Stainless steel (X) Painted inside Optional: Antifreeze up to -30°C

Code	Type	Type	Jet	Discharge	Std. packing dimension for transport			
Most popular	of frame	of valve or cap	length mt~	time sec~	Height mm~	Width mm~	Depth mm~	Weight kg~
CO2 EXTERNAL CARTRIDGE								
18284	Welded	2"	8	150"	1.380	700	900	230
18284_1	Welded	4"	8	150"	1.380	700	900	230
18284_2	Detachable	4"	8	150"	1.380	700	900	234
18284_3	Welded	2"	8	150"	1.380	700	900	230
18284_4	Welded	4"	8	150"	1.380	700	900	230
18284_5	Detachable	4"	8	150"	1.380	700	900	234
18284_6	Detachable	2"	8	150"	1.380	700	900	234
18284_7	Detachable	2"	8	150"	1.380	700	900	234
NITROGEN EXTERNAL CARTRIDGE								
18284_10	Welded	2"	8	150"	1.380	700	900	230
18284_11	Welded	4"	8	150"	1.380	700	900	230
18284_12	Detachable	4"	8	150"	1.380	700	900	234
18284_13	Welded	2"	8	150"	1.380	700	900	230
18284_14	Welded	4"	8	150"	1.380	700	900	230
18284_15	Detachable	4"	8	150"	1.380	700	900	234
18284_16	Detachable	2"	8	150"	1.380	700	900	234
18284_17	Detachable	2"	8	150"	1.380	700	900	234

1

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 needs one extinguishing that it does not have to leave trace of dirt.

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, if presence of people. Avoid to breathe gas CO₂ and after the discharge always leave the area if has been used in closed rooms. Interception valve. High efficient horn.

OPTIONAL: HOSE UP 10 MT

18311_2

10 KG
Approved fire class 144



18321_6

20 KG



18321_2

20 KG



18322_2

30 KG

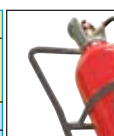


18352_2

50 KG

All types fire class approved 233

Code	Type of frame	Cylinder material	Type of valve or cap	Wheels diameter mm~	Jet length mt~	Discharge time sec~	Std. packing dimension for transport			
							Height mm~	Width mm~	Depth mm~	Weight kg~
18311_2	10 kgs	154	25 E	300	4	17"	900	350	1.045	38
18321	20 kgs	203	25 E	300	4	32"	1000	470	990	70
18321_6	20 kgs	232	25 E	300	4	32"	970	400	600	70
18322	30 kgs	230	25 E / 1"	300	4	35"	1140	490	1.150	85
18352	50 kgs	270	1"	400	4	52"	1435	650	1.400	156



Carring frame
standard yellow
optional **Red** or **Black**

Twin Agents

Code	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, consisting of a single frame mounting two cylinders, one with dry Powder and one with Foam. Wheels are mounted on roller bearings.

Easy manouvability, 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 bot cylinders, than a second cylinder with a pressure reducer garant 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 manouvred by hand or car towed..

Optional stainless steel cylinder

12153 100 KG

approx weight 250 Kg

116
76
cm 164

Trolley fire extinguisher from 250 to 500 kg

Description	code	
	19003	19004
Powder ABC	250	500
Lenght mm	2.460	2.920
Width mm	1.600	1.590
Height mm	1.500	1.600
Weight kg	500	1.250

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





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. Not conductive of electricity.



Cheap, efficacy, multipurpose.



Dirty, it require hard work for cleaning after use.
Low visibility during discharge.

FOR ALL MARINE RANGE, ON REQUEST FOR OFFSHORE APPLICATIONS:

Zinc primer + Top coat -High thickness > 150 µm

Special treatment for highly corrosive salts environment



14111

Kg 1

8 A
34BC



14122

Kg 2

13 A
113BC



14121

Kg 2

13 A
89BC



14132

Kg 3

21 A
144BC



14142

Kg 4

27 A
183BC

Standard wall bracket

From 3 kg to 12 kg.
Suitable for hook on the brass valve.



21001

Optional brackets

Suitable for cylinders with hook welded on the back.



20919 6 kg

20919_1 9 kg



Latch closure +
safety pin.

20907 6 Kg

20903 9 Kg

20908 12 Kg



20052



20431



20428

3 Kg

Code	Kg Powder	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallet 80x120	
							Q.ty	kgs
14111	1	85	2	335	4	7"	576	1.150
14121	2	110	3.3	370	5	12"	288	1.000
14122	2	115	3.1	310	5	14"	240	860
14132	3	130	5.1	425	5	16"	132	670
14142	4	140	6.8	485	5	16"	132	910
14160	6	160	9.7	530	7	18,5"	72	750

standard supplied
with wire steel
bracket



14161

Kg 6

34 A
233BC

14160

Kg 6

43 A
233BC

14169

Kg 6

55 A
233BC

Cylinders available in stainless steel and as non magnetic assembly.



14191

Kg 9

55 A
233BC

14172

Kg 12

55 A
233BC

Optionals

Plastic foot

21048

6 kg

21049

9 / 12 kg



21815 Valve M45x1.5

Schroeder
check valve +
locked seal.

Swivel
neck ring

21162

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.



20052

Standard bracket
back hook



13163

Kg 6

34 A
233BC

20523 Gauge



Gauge bourdon
40 mm thread
npt unmovable.

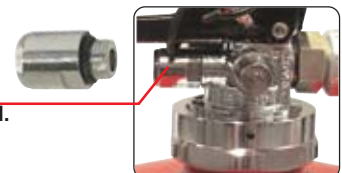
Foot and bottom
manufactured in single
pressing process:
Will never rust.



Code	Kg Powder	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallet 80x120	
							Q.ty	kgs
14161	6	160	9.7	500	7	18,5"	72	745
14162	6	160	10	610	7	18,5"	72	745
14169	6	160	10.1	570	7	18,5"	72	755
14169_1	6	160	10.1	570	7	18,5"	72	755
14191	9	190	14	600	7	18"	40	580
14172	12	190	17.5	660	7	24"	40	730

21161

Safety valve
preassembled.
Bursting disc
fast release.





1

Extinguishers with internal CO2 cartridges allow better and professional maintenance. Big M74 big filling cap allows the inspection of dry powder and the checking of the weight of the CO2 cartridge. More expensive compared with stored pressure, it is indicated when reliability in professional sites is the priority.



14167

Kg 6

34 A
233BC



14194

Kg 9

55 A
233BC



14173

Kg 12

55 A
233BC

Internal cartridge Portable fire extinguishers PURPLE K or MONNEX Powder

Purple K has higher efficacy on fires class B and has much better performance compared with sodium bicarbonate or multipurpose ABC.



PURPLE K

14168

Kg 6

233BC

Monnex, is the most powerful dry powder against any kind of fuel and gas. Product for professional use in refineries and high risk industries.



MONNEX

14193

Kg 9

233BC

Standard wall bracket

Hook is welded on the back of cylinder.



20052



Optional brackets

20919 6 kg

20919_1 9 kg

Steel back wall holder and latch closure.



Strong steel, latch

20907 6 Kg

20909 9 Kg

20908 12 Kg

Code	Kg Powder	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallet 80x120	
							Q.ty	kgs
14167	6	160	10.7	470	7	18"	72	795
14168	6	160	10.7	470	7	18"	72	795
14193	9	190	16	605	7	19"	40	670
14194	9	190	16	545	7	19"	40	670
14173	12	190	18.5	605	7	19"	40	790

CO2 carbon dioxide, is excellent against fires involving flammable gases Class **B**. EN 3 standard do not require testing on Class **C**, and although excellent is suggested shut down the source of gas leakage.
Limited capacity on class **A** for initial fires when not embers involved. Not conductive of electricity .



14221

Kg 2

34B

Steel 35 CrMo4 cylinder



14222

Kg 2

34B

Aluminium cylinder

14222_1

Kg 2

NON
MAGNETIC



Side swivel
insulated
horn
high efficacy

14223

Kg 2

70B

Steel 35 CrMo4 cylinder



14252_1

Kg 5

14252

Kg 5

NON
MAGNETIC

113B

Aluminium cylinder

Dielectric
discharge
horn
high
efficacy



14251

Cylinder 7,5 Lt

Kg 5

14253

Shorter cylinder 6,7 Lt,
tested at 300 bar

113B

Steel 35 CrMo4 cylinder

Dielectric
discharge
horn
high
efficacy

21800



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

Standard wall brackets

Suitable for hook on the brass valve.



21009

2 kg



21001

5 kg

Optional brackets

20432

5 kg

Ring aluminium cylinders.

20433

5 kg

Ring for steel cylinders.



Horn holder



for wall bracket

Vehicle Brackets



20061

2 kg steel
14221

20916

2 kg alum
14222

20047

5 kg steel
14251

20915

5 kg alum
14252

Code	Kg CO2	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallet 80x120	
							Q.ty	kgs
14221	2	105	6.5	560	3	8"	100	810
14222	2	111	5	535	3	8"	100	610
14223	2	105	6.5	560	3	10"	100	810
14251	5	136	14	735	3.5	12"	50	735
14252	5	152	12	720	3.5	12"	50	600
14253	5	136	15	690	3	14"	50	735

Aluminium

Aluminium



1

Ideal for public places, lodges, stores, airports, supermarkets, hotels, etc. etc.

The powder does not allow good visibility during discharge and can create panic.

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.

- Longer time of discharge!
- Visibility for the entire time of discharge
- Not dirty! Water 98% + 2% additive
- Ecological, biodegradable to 99,8%
- Easier use against flammable liquids, cooling and sealing effect, no flashback.



14331

Lt 3

13 A
144B



14361

Lt 6

27 A
233B

14391

Lt 9

34 A
233B

This model is ideal for homes, small restaurants, campings.



14320

Lt 2

8 A
55B



SEALFIRE F, and extending lance gives best performance against fires of oils and fat fires.



14365

Lt 6

13 A
113B

High design and style, stand foot, swivel valve, high volume of cylinder allow longer jet and professional performances.



14366

Lt 6

34 A
233B

Official fire test, carried by professional fireman as EN3.7 233 B

6 lt Sealfire®
1 minute preburning
900 °C terrific hot

After only 5"seconds.
Flames and heat already reduced.

5 seconds



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

10 seconds



15 seconds

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

EXTRAORDINARY!



Code	Kg Sealfire	Ø mm	Kg full~	H mm~	Jet mt~	Time sec~	Pallet 80x120	
							Q.ty	kgs
14320	2	110	3.75	405	3	12"	288	1.000
14331	3	130	5.2	425	4	16"	132	670
14361	6	160	10.3	570	5	30"	72	755
14365	6	160	10.5	570	5	45"	72	755
14366	6	160	10.3	600	5	30"	40	640
14391	9	190	15	635	7	38"	40	640
14393	9	190	15	635	7	38"	40	640

Optionals

Plastic foot



21048

Lt 6

21049

Lt 9

Metal hose holder ring



20015

Lt 6

20015

Lt 9

Hose holder strap



20424

Foam Sealfire S extinguishers are the best restaurant kitchen appliance hand portable fire extinguishers you can purchase. Both have been tested and approved for oils and fat fires of restaurant kitchen hazards.

Superb performances on flammable liquids fires as well on class **A** fires with strong cooling and sealing A.F.F.F effect. These models with internal cartridges allow professional and

easy maintenance. The **Sealfire S** additive is sealed in a small plastic cartridge which is released only at the moment of the activation. The superior fire fighting capability of the **Sealfire S** ensure high performance, no chemical residue to clean up.

Optional: antifreeze -30°C for cold environments zones. **PLASTCOAT polithen inside, gives 10 year guarantee** against internal corrosion.



14362

Lt 6

34 A
233B



14392

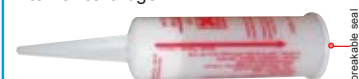
Lt 9

34 A
233B

Foam cartridge

33397 Sealfire S

Used for the extinguisher 6 and 9 lt foam internal cartridge.



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

Code	Lt sealfire	Ø mm	Kg full~	H mm~	Jet mm~	Time sec~	Pallet 80x120	
							Q.ty	kgs
14362	6	160	11.5	550	5	24	72	828
14392	9	190	15	550	5	35	40	600

9 Its LIFEWATER®

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 environments.

The special nozzle discharges very fine drops of water, and can be used on fires involved with electricity until 1000 volt without any danger.

All fire extinguishers with Foam SEALFIRE or LIFEWATER, has the cylinder with internal coating PLASTCOAT which is guaranteed 10 years against corrosion.

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

DIELECTRIC

non conductive

CLEAN

no residues

LIFEWATER

only water + additive

Ø POLLUTION

100 % biodegradable



14393

Lt 9

27 A



Code	Lt water	Ø mm	Kg full~	H mm~	Jet mm~	Time sec~	Pallet 80x120	
							Q.ty	kgs
14393	9	190	15.3	655	5	38"	40	640



1

Clean Agent, Cleangreen, and Foxer S® are extinguishant gases ecologic and clean. Main components is a blend of HFC236 , HFC 227, HFC 134, recognized in the NFPA 2001 and accepted by EPA without limitations. They do not leave residue 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 termal shocks and it are 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 cleanness 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.



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

Fire test with Powder ABC portable fire extinguisher.



ENVIRONMENTALLY ACCEPTABLE
EPA approved as "Clean Agent" for Class A, B, use of HFC 236, HFC 227, HFC 134.
Low GWP (Global Warming Potential)
ZERO ODP (Ozone Depletion Potential)
Short Atmospheric Lifetime
CLEAN
Leaves no residue
USER FRIENDLY
Maximum visibility during discharge
No electrical conductivity back to the operator
No thermal or static shock



14410
Kg 1
5 A
34B



14440
Kg 4
13 A
113B

Code	Kg	Ø mm	Kg full~	H mm~	Jet mm~	Time sec~	Pallet 80x120	
							Q.ty	kgs
14410	1	85	2	335	2	10	576	1.150
14440	4	140	6.8	485	3	25	132	910

Clean Blue

Clean Green

The largest range of wheeled fire extinguishers available **approved MED**
MED 96/98 EC, N° A.1/3.52 **Certificate CSI 0497**

1

Trolley fire extinguishers dry chemical powder

STORED PRESSURE

N2 or CO2 CARTRIDGE OPERATED



Trolley fire extinguishers Foam A.F.F.F.

PERMANENT STORED PRESSURE

N2 or CO2 CARTRIDGE OPERATED



Trolley fire extinguishers Carbon dioxide

CARBON DIOXIDE





1


KG 25

Best quality German powder ABC multipurpose, **Furex**, or **Total**.
Bureau Veritas PED 97/23 CE mark, sand blasting, epoxy paint high resistance,
excellent manouvability.

Produced in 3 version:

Stored pressure.
CO2 Cartridge
N2 Cartridge

Options:

- Additional horn 
- Hose from 5 up to 10 mt.
- Cap 4" with CE safety valve 1", check valve, inspection gauge.
- Detachable frame may be colored, red, or black.

Detachable frame



Frame yellow for better visibility (on request red or black). No welding on the cylinder ensure better and higher safety.

Welded frame.



The axe and carrying handle are welded on the cylinder body, may cause easier corrosion, less safety.



14133_1



Swivel coupling

It allows easy unrolling of the hose avoiding twisting



On request
available with
N2 pressure reducer



14134_5

shown with
optional 10 mt
hose

Standard



2"

CE



CO2



N2

Optional



4"

CE

* Stainless steel cylinder All types fire class approved A IVB

Code	Type of frame	Type of valve or cap	Jet length mt~	Discharge time sec~	Std. packing dimension for transport			
Most popular					Height mm~	Width mm~	Depth mm~	Weight kg~
STORED PRESSURE								
14133	Welded	2"	11	25"	1.020	430	535	55
14133_1	Detachable	2"	11	25"	1.080	430	535	55
CO2 EXTERNAL CARTRIDGE								
14134	Welded	2"	11	25"	1.020	430	535	60
14134_1	Welded	4"	11	25"	1.020	430	535	60
14134_2	Detachable	4"	11	25"	1.020	430	535	60
14134_5	Detachable	2"	11	25"	1.020	430	535	60
14134_7	Detachable	2"	11	25"	1.020	430	535	60
NITROGEN EXTERNAL CARTRIDGE								
14134_10	Welded	2"	11	25"	1.020	430	535	60
14134_11	Welded	4"	11	25"	1.020	430	535	60
14134_12	Detachable	4"	11	25"	1.020	430	535	61
14134_17	Detachable	2"	11	25"	1.020	430	535	61

KG 50

Best quality german powder ABC multipurpose, **Furex**, or **Total**.
Bureau Veritas PED 97/23 CE mark, sand blasting, epoxy paint high resistance,
excellent manouvability.

Produced in 3 version:

Stored pressure.
CO2 Cartridge
N2 Cartridge

Options:

- Aluminium horn
- Hose from 5 up to 10 mt.
- Cap 4" with CE safety valve 1", check valve, inspection gauge.
- Detachable frame may be colored, red, or black.

Optional 21038_2



Horn in aluminium,
shock resistant
for 50/100/150 kg.



14164_1



Swivel coupling
It allows easy unrolling of
the hose avoiding twisting



On request
available with
N2 pressure reducer



14163_10

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

Standard



Optional



Code	Type of frame	Type of valve or cap	Jet length mt~	Discharge time sec~	Std. packing dimension for transport			
Most popular					Height mm~	Width mm~	Depth mm~	Weight kg~
STORED PRESSURE								
14164	Welded	2"	11	43"	1.050	450	550	80
14164_1	Detachable	2"	11	43"	1.120	450	550	80
CO2 EXTERNAL CARTRIDGE								
14163	Welded	2"	11	41"	1.050	450	550	85
14163_1	Welded	4"	11	41"	1.050	450	550	85
14163_2	Detachable	4"	11	41"	1.050	450	550	85
14163_5	Detachable	2"	11	41"	1.050	450	550	85
14163_7	Detachable	2"	11	41"	1.050	450	550	85
NITROGEN EXTERNAL CARTRIDGE								
14163_10	Welded	2"	11	41"	1.050	450	550	85
14163_11	Welded	4"	11	41"	1.050	450	550	85
14163_12	Detachable	4"	11	41"	1.050	450	550	87
14163_17	Detachable	2"	11	41"	1.050	450	550	87



1 KG 100

Best quality german powder ABC multipurpose, **Furex**, or **Total**.
Bureau Veritas PED 97/23 CE mark, sand blasting, epoxy paint high resistance, excellent manouvrrability.

Produced in 3 version:

Stored pressure.
CO2 Cartridge
N2 Cartridge

Options:

- Aluminium horn
- Hose from 5 up to 10 mt.
- Cap 4" with CE safety valve 1", check valve, inspection gauge.
- Detachable frame may be colored, red, or black.

Optional 21038_2



Horn in aluminium,
shock resistant
for 50/100/150 kg.

14166_5



Swivel coupling
It allows easy unrolling of
the hose avoiding twisting



On request
available with
N2 pressure reducer

14181

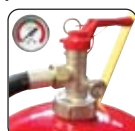


Standard



2"
CE

Stored pressure



CO
2

Optional



4"
CE



N
2

* Stainless steel cylinder All types fire class approved A IVB

Code	Type of frame	Type of valve or cap	Wheels diameter mm~	Jet length mt~	Discharge time sec~	Std. packing dimension for transport			
						Height mm~	Width mm~	Depth mm~	Weight kg~
Most popular									
STORED PRESSURE									
14181	Welded	2"	300	12	99"	1.290	540	700	155
14181_1	Detachable	2"	400	12	99"	1.290	540	700	155
CO2 EXTERNAL CARTRIDGE									
14166	Welded	2"	300	12	99"	1.290	540	700	85
14166_1	Welded	4"	400	12	99"	1.290	540	700	166
14166_2	Detachable	4"	300	12	99"	1.290	540	700	160
14166_5	Detachable	4"	400	12	99"	1.290	540	700	166
14166_7	Detachable	2"	400	12	99"	1.290	540	700	166
NITROGEN EXTERNAL CARTRIDGE									
14166_10	Welded	2"	300	12	99"	1.290	450	550	160
14166_11	Welded	4"	300	12	99"	1.290	540	700	160
14166_12	Detachable	4"	400	12	99"	1.296	540	700	166
14166_17	Detachable	2"	400	12	99"	1.296	540	700	166

Lt 25 & 50

Produced in 2 version, stored pressure:
from 0 to 60°C and antifreeze up to -60°C.

Options:

- Hose from 5 up to 10 mt.
- Detachable frame may be colored, red, or black.
- Antifreeze up to -30°C

Top quality AFFF SEALFIRE, has the best sealing effect, specially developed for use in portable and trolley .
Bureau Veritas PED 97/23 CE mark, sand blasting, epoxy paint high resistance, excellent manouvability.
These trolleys are a must in high risk areas such us refinery, flammable storage, warehouse of textiles, papers, rubber.



Swivel coupling
It allows easy unrolling of the hose avoiding twisting



Stored pressure



Replacement spare charge foam Sealfire

- 31303 Lt 50
- 31303_1 Lt 100
- 31303_2 Lt 150



Ready to use, just mix with water. Instructions included.

All types fire class approved A IVB

STAINLESS STEEL cylinder or as alternative cheaper coated inside against corrosion

* Stainless steel (X) Painted inside Optional: Antifreeze up to -30°C

Code	Type of frame	Type of valve or cap	Jet length mm~	Discharge time sec~	Std. packing dimension for transport			
Most popular					Height mm~	Width mm~	Depth mm~	Weight kg~
25 Lts STORED PRESSURE								
14225	Welded	2"	8	34"	1.020	390	535	60
14225_1	Detachable	2"	8	34"	1.020	390	535	61
14225_2	Welded	2"	8	34"	1.020	390	535	60
14225_3	Detachable	2"	8	34"	1.020	390	535	61
50 Lts STORED PRESSURE								
14254	Welded	2"	8	45"	1.140	450	550	80
14254_1	Detachable	2"	8	45"	1.140	450	550	82
14254_2	Welded	2"	8	45"	1.140	450	550	80
14254_3	Detachable	2"	8	45"	1.140	450	550	82



1

Lt 50

Top quality AFFF SEALFIRE, has the best sealing effect, specially developed for use in portable and trolley .

Bureau Veritas PED 97/23 CE mark, sand blasting, epoxy paint high resistance, excellent manouvability.

These trolleys are a must in high risk areas such us refinery, flammable storage, warehouse of textiles, papers, rubber.

Produced in 2 versions:.

CO2 Cartridge

N2 Cartridge

Options:

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



Swivel coupling
It allows easy unrolling of the hose avoiding twisting



On request
available with
N2 pressure reducer



Standard



Optional



2" valve.



All types fire class approved A IVB

STAINLESS STEEL cylinder or as alternative cheaper coated inside against corrosion

* Stainless steel (X) Painted inside Optional: Antifreeze up to -30°C

Code	Type of frame	Type of valve or cap	Jet length mt~	Discharge time sec~	Std. packing dimension for transport			
					Height mm~	Width mm~	Depth mm~	Weight kg~
Most popular								
CO2 EXTERNAL CARTRIDGE								
14260	Welded	2"	8	47"	1.145	455	550	85
14260_1	Welded	4"	8	47"	1.145	455	550	85
14260_2	Detachable	4"	8	47"	1.145	455	550	85
14260_3	Welded	2"	8	47"	1.145	455	550	85
14260_4	Welded	4"	8	47"	1.145	455	550	85
14260_5	Detachable	4"	8	47"	1.145	455	550	85
14260_6	Detachable	2"	8	47"	1.145	455	550	85
14260_7	Detachable	2"	8	47"	1.145	455	550	85
NITROGEN EXTERNAL CARTRIDGE								
14260_10	Welded	2"	8	47"	1.145	455	550	85
14260_11	Welded	4"	8	47"	1.145	455	550	85
14260_12	Detachable	4"	8	47"	1.145	455	550	85
14260_13	Welded	2"	8	47"	1.145	455	550	85
14260_14	Welded	4"	8	47"	1.145	455	550	85
14260_15	Detachable	4"	8	47"	1.145	455	550	85
14260_16	Detachable	2"	8	47"	1.145	455	550	85
14260_17	Detachable	2"	8	47"	1.145	455	550	85

Lt 100

Produced in 3 version:

Stored pressure.
CO2 Cartridge
N2 Cartridge

Top quality AFFF SEALFIRE, has the best sealing effect, specially developed for use in portable and trolley .

Bureau Veritas PED 97/23 CE mark, sand blasting, epoxy paint high resistance, excellent manouvability.

These trolleys are a must in high risk areas such us refinery, flammable storage, warehouse of textiles, papers, rubber.

Options:

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



Swivel coupling
It allows easy unrolling of the hose avoiding twisting



14281_1



14289_4



On request
available with
N2 pressure reducer



14289_17

2" valve.



Cap 4", large 1" safety valve, vent valve, gauge.



Handwheel 2" valve.



Stored pressure



CO2



N2

All types fire class approved A IVB

STAINLESS STEEL cylinder or as alternative cheaper coated inside against corrosion

* Stainless steel (X) Painted inside Optional: Antifreeze up to -30°C

	Code	Type	Type	Jet	Discharge	Std. packing dimension for transport			
	Most popular	of frame	of valve or cap	length mt~	time sec~	Height mm~	Width mm~	Depth mm~	Weight kg~
STORED PRESSURE									
*	14281	Welded	2"	8	99"	1.330	550	700	160
*	14281_1	Detachable	2"	8	99"	1.330	550	700	166
X	14281_2	Welded	2"	8	99"	1.330	550	700	160
X	14281_3	Detachable	2"	8	99"	1.330	550	700	166
CO2 EXTERNAL CARTRIDGE									
*	14289	Welded	2"	8	99"	1.335	550	670	160
*	14289_1	Welded	4"	8	99"	1.335	550	670	160
*	14289_2	Detachable	4"	8	99"	1.335	550	670	166
X	14289_3	Welded	2"	8	99"	1.335	550	670	160
X	14289_4	Welded	4"	8	99"	1.335	550	670	166
X	14289_5	Detachable	4"	8	99"	1.335	550	670	166
X	14289_6	Detachable	2"	8	99"	1.335	550	670	166
*	14289_7	Detachable	2"	8	99"	1.335	550	670	160
NITROGEN EXTERNAL CARTRIDGE									
*	14289_10	Welded	2"	8	99"	1.335	550	670	160
*	14289_11	Welded	4"	8	99"	1.335	550	670	160
*	14289_12	Detachable	4"	8	99"	1.335	550	670	166
X	14289_13	Welded	2"	8	99"	1.335	550	670	160
X	14289_14	Welded	4"	8	99"	1.335	550	670	160
X	14289_15	Detachable	4"	8	99"	1.335	550	670	166
X	14289_16	Detachable	2"	8	99"	1.335	550	670	166
*	14289_17	Detachable	2"	8	99"	1.335	550	670	166



1

Lt 150

Produced in 2 version:

CO2 Cartridge

N2 Cartridge

Top quality AFFF SEALFIRE, has the best sealing effect, specially developed for use in portable and trolley .

Bureau Veritas PED 97/23 CE mark, sand blasting, epoxy paint high resistance, excellent manouvability.

These trolleys are a must in high risk areas such us refinery, flammable storage, warehouse of textiles, papers, rubber.

Options:

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



14284_12



Swivel coupling

It allows easy unrolling of the hose avoiding twisting



On request
available with
N2 pressure reducer



14284_1

All types fire class approved A IVB

STAINLESS STEEL cylinder or as alternative cheaper coated inside against corrosion

* Stainless steel (X) Painted inside Optional: Antifreeze up to -30°C

Code	Type of frame	Type of valve or cap	Jet length mt~	Discharge time sec~	Std. packing dimension for transport			
					Height mm~	Width mm~	Depth mm~	Weight kg~
Most popular								
CO2 EXTERNAL CARTRIDGE								
14284	Welded	2"	8	150"	1.380	700	900	230
14284_1	Welded	4"	8	150"	1.380	700	900	230
14284_2	Detachable	4"	8	150"	1.380	700	900	234
14284_3	Welded	2"	8	150"	1.380	700	900	230
14284_4	Welded	4"	8	150"	1.380	700	900	230
14284_5	Detachable	4"	8	150"	1.380	700	900	234
14284_6	Detachable	2"	8	150"	1.380	700	900	234
14284_7	Detachable	2"	8	150"	1.380	700	900	234
NITROGEN EXTERNAL CARTRIDGE								
14284_10	Welded	2"	8	150"	1.380	700	900	230
14284_11	Welded	4"	8	150"	1.380	700	900	230
14284_12	Detachable	4"	8	150"	1.380	700	900	234
14284_13	Welded	2"	8	150"	1.380	700	900	230
14284_14	Welded	4"	8	150"	1.380	700	900	230
14284_15	Detachable	4"	8	150"	1.380	700	900	234
14284_16	Detachable	2"	8	150"	1.380	700	900	234
14284_17	Detachable	2"	8	150"	1.380	700	900	234

Cap 4", large 1/4" safety valve, check valve, gauge.



2" valve with 1/4" safety valve



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, benzine, oils, varnishes, alcohol, etc where needs one extinguishing that it does not have to leave trace of dirt.

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, if presence of people. Avoid to breathe gas CO2 and after the discharge always leave the area if has been used in closed rooms. Interception valve. High efficient horn.



14311
10 KG
Approved fire class 144



14321_6
20 KG



14321
20 KG



14322
30 KG



14352
50 KG

All types fire class approved 233

Code	Type of frame	Cylinder material	Type of valve or cap	Wheels diameter mm~	Jet length mt~	Discharge time sec~	Std. packing dimension for transport			
							Height mm~	Width mm~	Depth mm~	Weight kg~
14311	10 kgs	154	25 E	300	4	17"	900	350	1.045	38
14321	20 kgs	203	25 E	300	4	32"	1000	470	990	70
14321_6	20 kgs	232	25 E	300	4	32"	970	400	600	70
14322	30 kgs	230	32 E	300	4	35"	1140	490	1.150	85
14352	50 kgs	270	32 E	400	4	52"	1435	650	1.400	156



Carring frame
standard yellow
optional Red or Black



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 is conform to NFPA 2001, accepted by EPA. It fully respects the Ozone layer because its ODP is ZERO. Its use is admitted in rooms with 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 living person and animals. The fire is extinguished immediately upon 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 FRIENDLY ENVIRONMENTAL RESPECTS,
CLEAN, do not damages computer equipments, not
harmful for humans and animals.

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
15233	12	190	600	20

Optional Accessories suitable for Easyfire® and Firekill

Termocable

47033	105°C standard
47034	88°C
47035	105°C
47036	138°C



Termocable act as a temperature fire detector. With fire, It melts and the short circuit act 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

Boxes to house the pull lever cable



41003

Aluminium red paint
Dimension: 90x60

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.



20412 Manual actuator optional

Manual actuator in combination with remote cable in the dashboard for manual emergency activation. Complete kit need codes 24012 + 41006 + 23022 or 41003

- 41006 Remote pull cable 5 mt
- 23001 Remote pull cable 10 mt

Pull lever



43001 Electric actuator



It works with any source of DC or AC electricity, from 3 up to 220 Volt. Usually connected to the main battery at 12 Volt DC, it needs only 0,3 Amp.

Can be connected :

MANUALLY: with a safety push button 23022.

AUTOMATICALLY :

Joined with a termocable fire detector and with our Control Box 23023. The Control Box it stops the fuel and fans, actuate visual and sound alarm and may send alarm with mobile phones.

Warns for low pressure, it actuates alarms, other safety device. 23009_1 Switch is N.O. and when low pressure or activation due to fire, will close the contacts.

Instead 23009 Switch is N.C. and open the contact when pressure is low. Contacts support max 220 Volt 10A



23009_1 Pressure switch N.O.

23009 Pressure switch N.C.

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 ensure that children may activate the system.

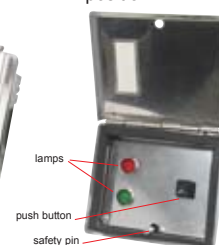
23022_1 Gold plated 24K



23022 Stainless steel Silver plated



Picture in open position.



Firekill® 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 141°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.

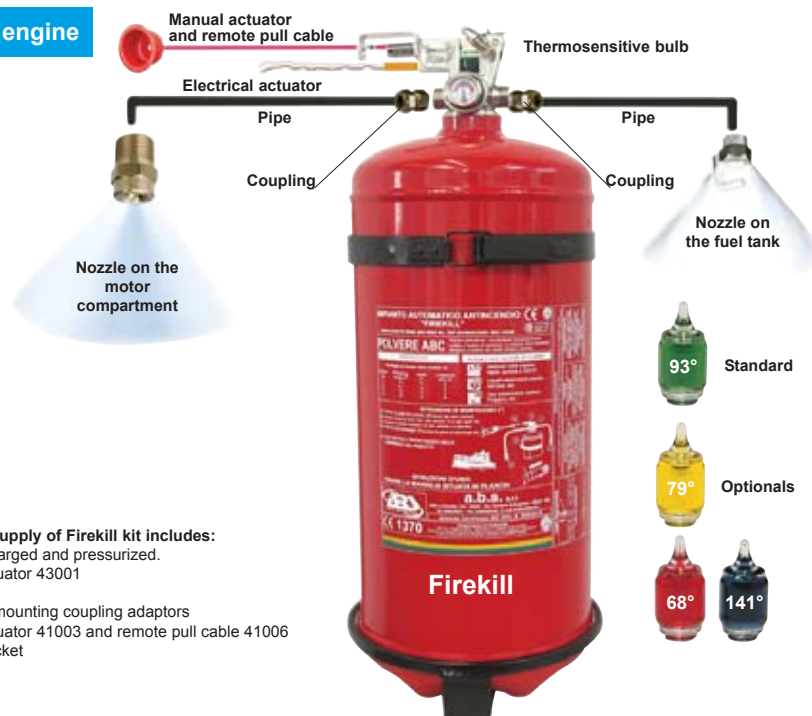
Assembly without necessity to thread tubes, extremely easy and quick.

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

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

Standard supply of Firekill kit includes:

Cylinder charged and pressurized.
Electric actuator 43001
2 nozzles
Pipes and mounting coupling adaptors
Manual actuator 41003 and remote pull cable 41006
Marine bracket



Powder FIREKILL®					
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
15229	12	20	190	610	8

HFC 227 FIREKILL®					
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
15240	12	20	190	610	8

It protects max 20 m3

* HFC 227 known as FM 200®,
OZONE FRIENDLY ENVIRONMENTAL RESPECTS, CLEAN, do not damages computer equipments, not harmful for humans and animals.

23023

Marine control Box for Firekill & Easyfire

CHASSIS IN ABS, IP 65

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 double insulated cable 60 mt;
- 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.

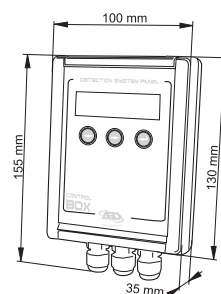
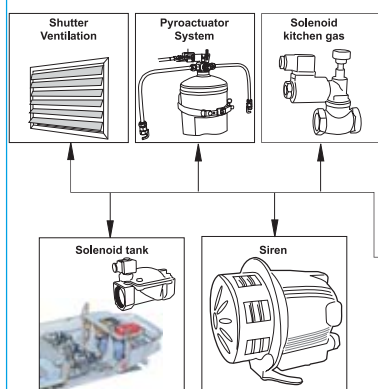
Upon system discharge, it shutdown engine, forced ventilation, fans, electrical system, actuate sound and visual alarm.



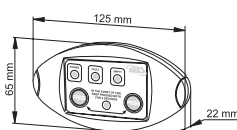
Technical specifications

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

kg 6/9 Fire extinguisher cabinet model BASIC polyethylene

For use inside or outside, resistant from -30° to +70°C. Weatherproof, shockproof, anti-aging.

26302 For kg 6 and 9 fire extinguisher, cheaper, total protection.



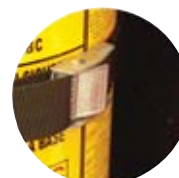
Best sealing
Dust seal

230 x 670 x 300 mm

Cheap, universal, for use inside or outside, protecting from dust and tampering.



Double closure,
safety pin, seal.



Nylon strap with
locking steel



91016

Aluminium label
adhesive fire
extinguisher
dim.105x105 mm



Additional seal



In fiber glass
see page 74

Fire extinguisher cabinet for trucks ADR STRONG polyethylene

Heavy for trucks, buses, for internal and external use, resistant from -30 ° to +70 ° C, vibration, weather, shockproof, anti-aging.



26315 kg 6

26316 kg 9/12

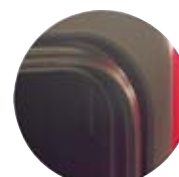


Best sealing
Dust seal

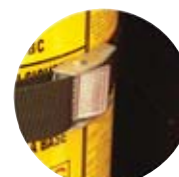
250 x 700 x 300mm



260 x 830 x 310 mm



Dust seal



Nylon strap with
locking steel



91015

Aluminium label
adhesive fire
extinguisher
dim.120x80 mm



Double closure,
safety pin, seal.

Polyethylene fire extinguisher cabinet for truck

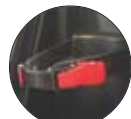
Quick cover release. Window to control the gauge.
High resistance against vibration extinguisher. Latch galvanized.

26321 KGS 6 Red/Black, 250 x 600 x 300 mm

26322 KGS 9/12 Red/Black, 300 x 750 x 350 mm



Dust seal



Look for
extinguisher



Quick fastener
Galvanized steel
and may be
padlocked



26317 kg 6

Particularly hard.
Suitable up to 6 kg
extinguishers.

type Top Load



250 x 640 x 245 mm

Cabinets plastic for fire extinguisher



26307 kg 6
Dim 313 x 618 x 220

26301 kg 9 / 12 / 5 CO₂
Dim 370 x 835 x 245

Strong plastic ABS, shine finishing.
Suitable for 6 kg powder.
Includes two sides latch locked
with safety pin and seal.
Excellent quality and price.



26310 kg 6
dim 313 x 618 x 220

26304 kg 9 / 12 / 5 CO₂
dim 370 x 835 x 245

Strong plastic ABS, shine finishing.
Suitable for 6 kg powder.
Includes two sides latch locked
with safety pin and seal.
Transparent cover anti U.V.

Accessories for cabinets



26302 Upper bracket with clips for
6 kg Ø 160 ~ 162 mm



26307 Bottom bracket for 6 kg
Ø 160 ~ 162 mm



Permit fixing of extinguisher
inside cabinets avoiding its
overturning.

EUROPE model ADR

Very strong plastic ABS, excellent design and finishing.
Includes two sides latch, transparent window, hard rubber bracket



26308
Dim 313 x 618 x 220 - kg 6

26323
Dim 370 x 835 x 245 - kg 9



Fiberglass cabinet



61132 kg 6 30x56x22 cm
61137 kg 12 30x75x22 cm

For areas of extreme
aggressiveness, chemical or
marine environments.
Withstand all weather
conditions and environmental
toxic fumes.
Stainless steel lock.

★ other
see page 74

Plastic cabinet

61134 Very strong and hard plastic. Suitable to store 2 extinguishers 12 kg, or 2 fire hoses, nozzles, breathing apparatus, safety equipments.



OR



Dim. 54x72x27cm

SUPERSAFE Cabinet 626 for extinguisher

Code		Type	Dimensions cm
	Kg	lock	L x H x P
26213	6	key	31x65x22
26214	6	seal	31x65x22
26215	12	key	34x78x24
26216	12	seal	34x78x24
26209	5 CO2	seal	30x85x18

Red epoxy 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.

With protected key



On request also in stainless steel, polished or red epoxy painted

Detail closure with seal



Round edge improves safety



With a numbered seal



The most request

Steel cabinet with plastic glass

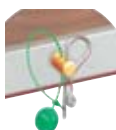
CABINET			PLASTIC GLASS		
Code	Kg	LxHxP	NOFLAMES	EASY BREAK	cm
26202	6	30x65x20	60033_1	60033	25x54
26201	12	30x78x25	60021_1	60021	25x71
26101	6	30x65x20	60018_1	60018	25x54
26103	6	30x65x28	60017_1	60017	21x51
26102	12	30x79x28	60020_1	60020	22x67

Epoxy paint, complete with

NOFLAMES transparent sheet.

The plate unbreakable, non-flammable, protects against accidental breakage

Closure with anti tamper green seal.



Elegant finishing aluminium door frame or stainless steel

Stainless steel



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

Plastic glasses



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 shockproof epoxy painted closure with handle and tamper seal protection.



26104

kgs 6, steel frame with seal.
Cm: 32x60x27



Green seal



26105

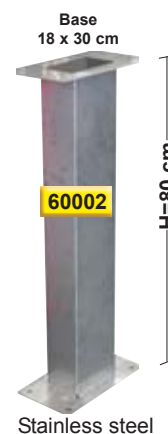
kg 9/12/CO2 kg 5, steel frame with seal.
Cm: 32x80x27

Foot stand for cabinet



60005

Red steel



60002

Stainless steel

Fire extinguishers floor stand

The floor stand, avoids drilling walls to fix bracket.
Made with steel tubular frame, epoxy polyester painted or chrome. Optional colors: black.
Available with hook "V" fix on the valve or "C" for cylinders having the back hook welded on the body.

On order specify valve hook "V" or "C"



"V" - hook on the valve



"C" - hook on the cylinder

28012 "QH"

Base + extension
+ sign
h=193 cm
Red color
Standard hook "V"



28026 "THCR"

Base + extension + sign
h=193 cm
polished
chromed
Standard hook "V"



Double stand.

28033 Red

28034 Chrome

Standard hook "V"



28017
Bar and sign, red

28043
Bar and sign, chrome

28027 "PCH" h=190 cm

sign,
advertising
emergency numbers,
ashtray or flowers,



28031 "PCB"

with ashtray or
flowers decoration
h=120 cm

ashtray or
flowers,



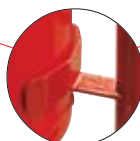
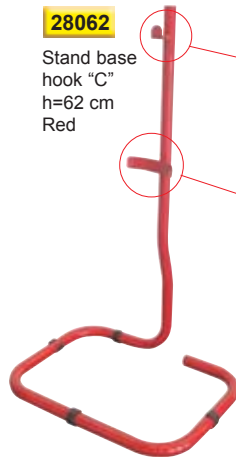
28011

Stand base
hook "V"
h=62 cm



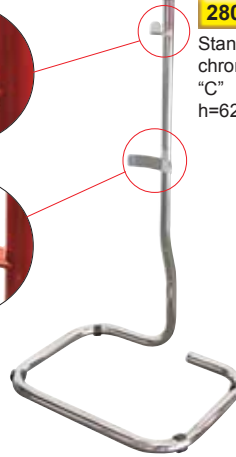
28062

Stand base
hook "C"
h=62 cm
Red



28063

Stand base
chrome, hook
"C"
h=62 cm



Brackets for cars, trucks, marine use

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

20919 6 kg diam 160

20919_1 9/12 kg diam 190



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



Code	Tipo	diam
20907	kg 6	160/162
20093	kg 9/12	190
20907_1	Lt 6	160/162
20918	kg 4	140

Code	Tipo	diam
20061	kg 2 CO2	104 steel
20916	kg 2 CO2	111 alum
20915	kg 5 CO2	152 alum
20047	kg 5 CO2	136 steel

Wire brackets



Code	Type	diam
20426	kg 1	85
20427	kg 2	110
21040	kg 2	115
20428	kg 3	130

Brackets for racing cars

21150 4 kg diam 140

Accepted in all races requested by F.I.A.



ON REQUEST OTHER SIZE

Stainless steel. Corrosion free

Latch locker with safety pin.



Code	Type	diam
20094	kg 6	160
20404	kg 9/12	190
20095	kg 5 CO2	136

Brackets for Easyfire

With latch for extinguisher with sprinkler in the bottom

20908 12 kg diam 190

20917 3 kg diam 130

20910 6 kg diam 160



Hard steel brackets

Hard steel.

Rubber antivibration.
Safety pin lockable.
Very strong steel plate.
For trucks and heavy machines.

21138 6 kg

21138_9 9/12 kg



Marine brackets

20906

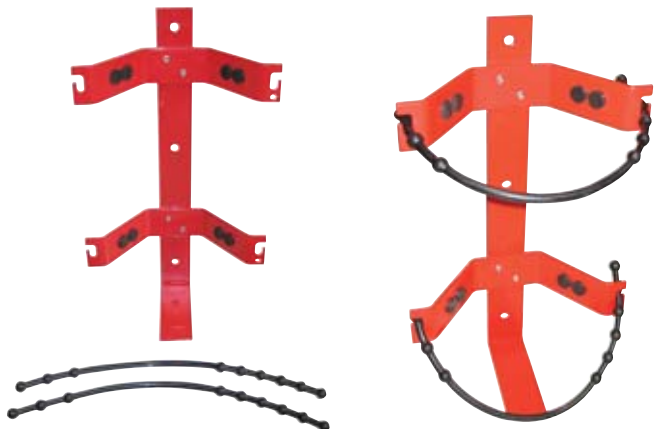
9/12 diam 190 for extinguisher
with hook on the back of
cylinder type "C"



American bracket

20920

Universal bracket from up to 200 mm diam
Strong steel structure, 2 hard durable rubber latches



Brackets for cabinets

26302 Upper bracket with clips for
6 kg Ø 160 ~ 162 mm



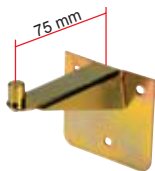
26307 Bottom bracket for 6 kg
Ø 160 ~ 162 mm



Permit fixing of extinguisher
inside cabinets avoiding its
overturning.

Wall holders and hose holders

21001 Universal for valves with hole holder type "V"

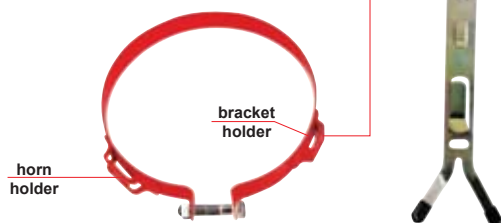


21009 For kg 2 CO2 diam 110 ~ 130 mm



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

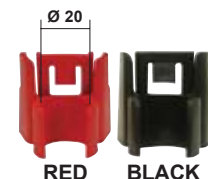
20052 Universal for holder on the cylinders type "C"



21826 Hard rubber hook hose holder.



20098 Plastic clips for kg 6-12 internal cartridge.

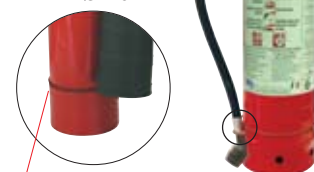


Galvanized steel wire Ø 4 mm

20034 Ring holder hose for cylinder Ø160 mm 6 kg

20015 Ring holder hose for cylinder Ø190 mm 6/12 kg

20000 Ring holder horn for CO2 cylinder Ø140



20000 Ring holder horn

20034 Ring holder hose

20015 Ring holder hose



Plastic strip

20424 For 6/12 kg universal Black or RED



RAIN 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
Dimension:
H: 64 cm - L: 34 cm
Window 16x10 cm

91009 for 9 kg
Dimension:
H: 73 cm - L: 39 cm
Window 16x10 cm

91011 for 12 kg or CO2 5 kg
Dimension:
H: 82 cm - L: 40 cm
Window 16x10 cm



FOR TROLLEY FIRE EXTINGUISHERS

POWDER OR FOAM

91010 for 30-50 kg
Dimension: H: 140 cm - L: 90 cm

91012 for 100 kg
Dimension: H: 160 cm - L: 90 cm

CARBON DIOXIDE

91030 for 10 kg
Dimension: H: 100 cm - L: 46 cm

91032 for 20 kg
Dimension: H: 115 cm - L: 70 cm

91031 for 30 kg
Dimension: H: 140 cm - L: 70 cm



FOR FOAM MOBILE UNIT

91013 Rain dust cover for foam mobile unit 200 lt
Dimension:
H: 125 cm - L: 60 cm W: 95 cm



FOR TWIN AGENT

91014 Rain dust cover for Twin Agent 50+50
Dimension:
H: 150 cm - L: 90 cm W: 90 cm

Available on custom size and printing request.

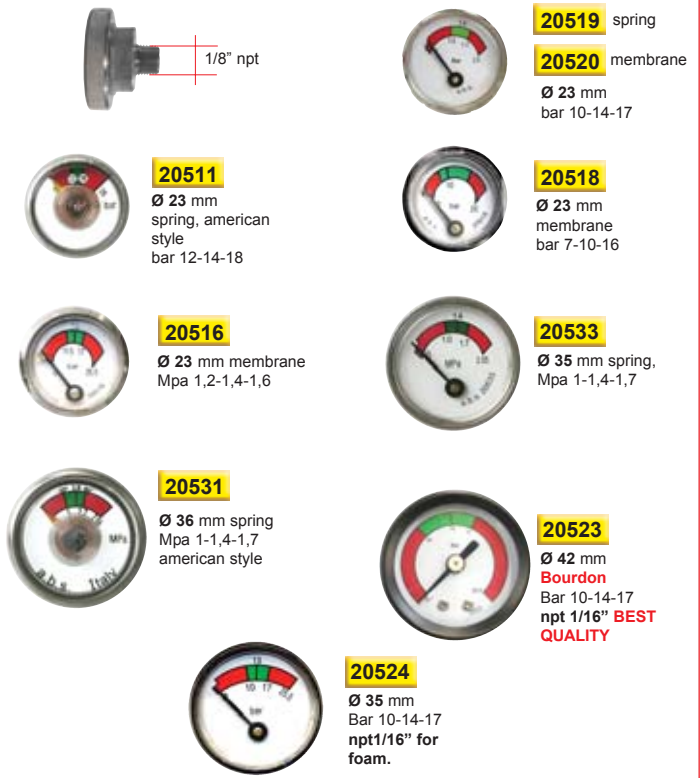


Manometer M10x1 with O-ring



Membrane gauges are indicated for foam or halon Foxer

Manometer without O-ring



Membrane gauges are indicated for foam or halon Foxer

Hose for powder fire extinguisher

Code	connection	Ø mm	L/mm	Extinguisher type
21648	1/4"M	13x20	450	P3
21649	1/4"M	13x20	520	P4
21612	1/4"M	10x19	530	P6
20617	1/4"M	10x19	655	P6 plastic nozzle
21614	1/4"M	10x19	605	P9
21615	1/4"M	10x19	655	P12
for internal cartridge extinguishers				
20659	1/4"M	13x20	655	P 6/9/12

Steel or plastic



Synthetic rubber. Burst > 55 bar. couplings steel galvanized

Hose and horn for CO2 extinguisher



21029 Horn original A.B.S.-SNOW with 1 hook standard.
Co2 kg 5, kg 20 e kg 30 (inside nozzle 20010 not included)

Hook standard.



Additional hook on request

21037

Rubber washer
19x11x3 for horns
Co2 kg 2

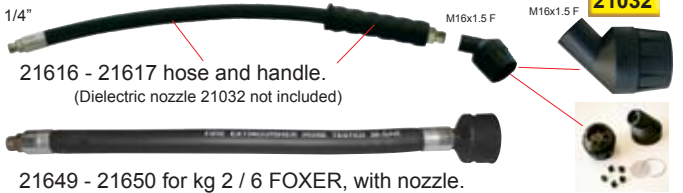
21030



CO2 horn for kg 2 Co2, special aluminium inside net, Ø 21,8F

Hose for foam and Foxer

Code	Connection	Ø mm	L/mm	Extinguisher type
21647	1/4"M	13x20	13331- lt 3	
21616	1/4"M	10x19	520	13362 - lt 6
21651	1/4"M	10x19	1055	13365 - lt 6
21617	1/4"M	10x19	600	13392/3 - lt 9
21650	1/4"M	13x20	420	13420 - kg 2 Foxer
21649	1/4"M	13x20	520	13461 - kg 6 Foxer



Hose + extension + nozzle for
class F 13365 foam
extinguishers

21651

Hose for trolley fire extinguishers

Code	Connection	Ø	L/mt	Type
20635	21,8"fx1/2"m	1/2"	0,36	CO2 k60 tee 2x30 kg
20648	1/2"fx3/8"f	1/2"	5	CO2 k60 export
20640	3/4"fx18x1.5m	16x26	5	P25 N2 / CO2 cart
20649	3/4"fx3/4"m	16x26	5	P50/100 F50/100
21640	3/4"fx1"m	19x31	5	P25 pressurized
20655	3/4"fx3/4"m	16x26	5.1	F50/100
20656	3/4"fx3/4"m	16x26	5.4	F100/150
20652	21,8"fx3/8"m	3/8"	5	CO2 kg 10/20
20652-1	21,8"fx3/8"m	1/2"	5	CO2 kg 30/50



For foam or powder



For CO2

3/4"m to ball valve swivel 45°

Ø 21,8fg to CO2 valve

1/2" o 3/8"f to ball valve h.p.

3/4" f, to dry powder valve

On request longer length

20021 Hose gasket 3/4" Ø 15,2 x 24 thickness 2 mm

20021_1 Hose gasket Polythene Ø 19 x 11 thickness 2 mm



21036 Hose gasket 21.8" Ø 18,5 x 11,6 thickness 2 mm

Foam nozzle trolleys

Aluminium, for SEALFIRE trolley fire extinguishers

21006 Ø 6,5 - 50,100,150 lt

21007 Ø 10 rapid discharge for Twin Agent 2 Lt/sec



3/4" M

Co2 Discharge horn

21015 Horn big size, pipe+ ball valve 1/2" high pressure trolleys CO2



1/2"



21127

Horn Ø 100mm, pipe+ ball valve 3/8" high pressure trolleys CO2

20017 Swivel horn 21,8 for CO2, 2 Kg side out



20025_1 Horn insulated 10x1 for 2 kg CO2

20025 Horn 10x1 for 5 kg CO2



Ball valve

Code	diam
66017	1/4"
66018	3/8"
66019	1/2"
66020	3/4"
66021	1"
66022	1 1/2"
98226	2"



For powder, foam, nitrogen, PN 25 bar.

98039 1/4"F

98115 3/8"F

98001 1/2"F

For CO2 or nitrogen PN 300 bar.

Pistol for powder fire extinguishers

21118

For kgs 6 / 9 / 12 Internal cartridge



M18x1,5

Ø 5 mm

21035

For trolley powder kg 30



M18x1,5

M16x1,5 Ø 9 mm

3/8"

21035_1

Swivel connector avoid twisting when unrolling the hose



Swivel M18x1,5

M16x1,5

21008

Nipples M16x1,5 x 3/8"

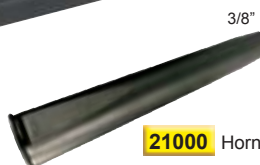


M18x1,5

3/8"

22001 For kgs 6 / 9 / 12 Internal cartridge

21000 Horn 3/8" female

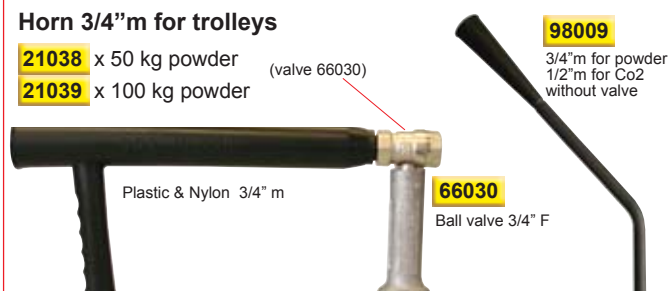


Horn 3/4"m for trolleys

21038 x 50 kg powder

21039 x 100 kg powder

(valve 66030)



Plastic & Nylon 3/4" m

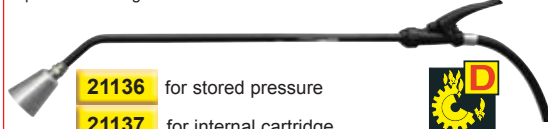
66030 Ball valve 3/4" F

21038_2

Aluminium 3/4"m 50 / 100 kg. Strong, unbreakable.



Special extending lance 1 mt for smoother fires of metals class "D"



21136 for stored pressure

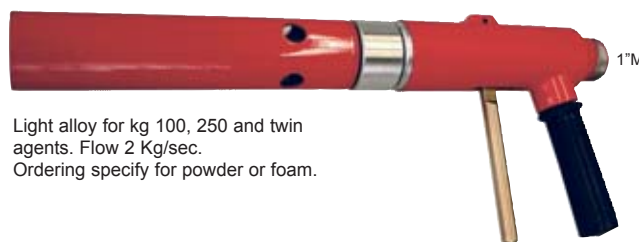
21137 for internal cartridge



USEFUL FOR FIRES IN HIGH LEVEL, LIKE RACKS, PLANES, STORAGE, etc.

EXTENDING LANCE mt 2 FOR TROLLEYS POWDER OR CO2

20099 Discharge gun



1" M

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

20425 Discharge gun



1" M

Plastic antischock, for dry powder trolleys

Valve for portable and trolley fire extinguishers

21807 M30x1,5 for 1 kg Brass handle
No corrosion

21812 M24x1,5

1/8" npt

M10x1

M30x1,5

21026

Ø 6

H= 31 mm

21083

21807_1 Lever in stainless steel

No corrosion

21806 Valve M30x1,5 for 2 kg

1/8" npt

M10x1

M30x1,5
21044

21026

Ø 6

H= 31 mm

21083

21806_1 Lever in stainless steel

No corrosion

21821 Powder from 3 to 12 kg

21821_1 Water & Foam

1/4"

M10x1

M30x1,5
21044

21027

Ø 6

H= 43 mm

21083

21821_1 Lever in stainless steel

No corrosion

21815 Valve M45x1,5 for 6 kg powder

21815_1 6 lt foam

21162

Complete
check valve

M16x1,5

Swivel
M45x1,5

1/16" gauge

21161

Check valve with
bursting disk 24 bar

21819 CO2

21804 CO2 from
CPF Italy

21,8

M25x2 - O'ring
21086

21063

Ø 6

H= 51 mm

21800 Non Magnetic valve, stainless steel levers

20809 M25x2
Side Outlet

M25x2 - O'ring
21086

21,8

21803 3/4" - 25E - CO2

20817 1/2" - 1/2" npt 17E

21,8

21023

Ø 6

H= 48 mm

21806 1" - 32E - CO2

20808 3/4" - 25E

20810 1/2" - 17E

21,8

Npt

21023

Ø 6

H= 48 mm

21820 For trolley

3/4" M

21083

M10x1

Swivel 2" Female

Ø neck ring on cylinder 50 mm EN 1866

20802 kg 30 - 50 - 100

1/2" M

1/8" npt

21083

Swivel 2" Female

Ø neck ring on cylinder 45 mm EN 1866

21801 CPF Italy for kg 30 - 50 - 100

3/4" M

M10x1

Bursting disc
24 bar

Swivel 2" Female
O'Ring 21052

Ø neck ring on cylinder 45 mm EN 1866

21820

3/4" M

EN
1866

M10x1

Swivel 2" Female
O'Ring 21052

Ø neck ring on cylinder 50 mm EN 1866

21802 3/4" npt - 25E

21802 1" npt - 32E

21,8 Male

3/4" 25E / 1" 32E

For trolley CO2
K10 - K20 - K30 - K50 - K60

20831 Handwheel M25x2, with O'Ring

21,8 M

M25x2 with O-ring
21086

For Co2 cylinders with parallel thread M 25x2

21818 Nitrogen

21,8 Female inside
thread

21,8 F

3/4" npt 25E

21818_1

W24,32 X 1/14"
DIN 477 male
thread

Bursting disc
250 bar is not
compulsory but
increase safety

NITROGEN N2

21028 Safety valve

22/24 bar
M30x1,5 high
flow
foam trolleys

**28024 Safety valve**

22/24 bar.
1/4"



Nut not included



21021
Bursting disc valves
2"
trolleys EN1866

22/26 bar

21010 Like tyres valve,
1/8" npt



21142 Bursting disc CO2 valves
170/200 bar



21020 bursting disc CO2
170/200 bar + washer



Nut non included



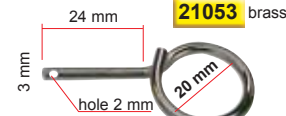
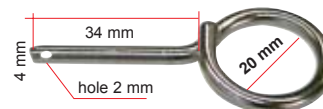
21025

Schroeder valve

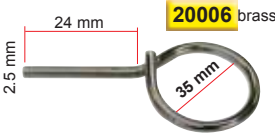
21050 Tool for assembling Schroeder
valves 21025

**Safety pin**

21096 steel chromed

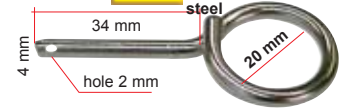


21053 brass

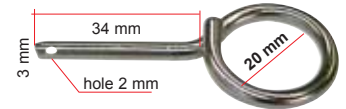


20006 brass

21018 stainless
steel



21089 brass



20406 2 kg
brass

20400 6 kg
brass

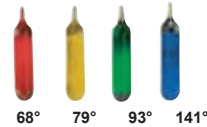
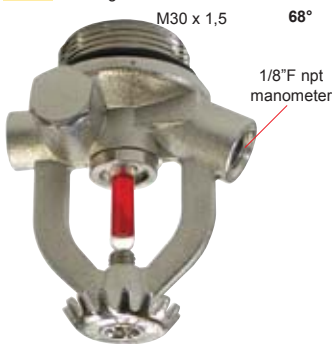
**O-rings for valves, pistons, manometers**

	Code	spare part for:	box.	Ø int. mm	thick
	20080	valve trolley 1"	25 pcs	33	3,5
	21052	valve trolley 2"	10 pcs	45	3,5
	20028	valve M24x1,5	100 pcs	23	3,5
	21044	valve M30x1,5	100 pcs	27	3
	21045	manometer M10 x 1	100 pcs	7,6	1,8
	21046	piston kg 6/12 M30	100 pcs	3	1,8
	21047	piston kg 1/2 M30	100 pcs	3	1,8
	21086	valve CO2 M25x2	100 pcs	25	3,5

Sprinkler for automatic extinguishers

24001

Standard 68°C red
24003 a 93°C green



141°C optional
overpriced

Standard bulb 93°C
for automatic application

24002

Connection for
pressure switch
23009
1/8" F npt

pressure
Schroeder
check valve

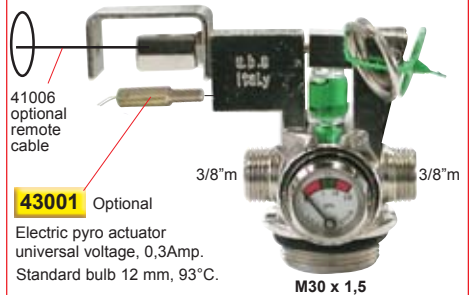
Connection for
electric pyro actuator
43001
or manual actuator.



25006 spare
bulb kit 93°C

Valve automatic

25000 93°C, M30x1,5 with gauge, suitable for small
systems till 25 kg, powder or FM200



43001 Optional
Electric pyro actuator
universal voltage, 0,3Amp.
Standard bulb 12 mm, 93°C.

Bulbs spare

cod °C

25002 68°

25007 79°

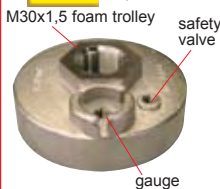
25008 93°

25005 141°

Optional:
41006 remote cable

Accessories for cartridge extinguishers

21042 Cap 4"



20826 blank cap 4"



21144 Cap 4"



66016

Cap Uni100
M115x6
1/4" e 1/8 npt



21034 Cap 2" + safety disc

21034_1 With hole 1/4"



Cap washers



20022 2" 56 x 41 x 3 mm
21041 4" 115 x 92 x 5 mm

20040 Valve M74x2 cartridge
connection 3/8"



20824

Valve M74x2 cartridge
connection 3/8"



20408

10 mm

Disk for
cartridge



33397

Used for the extinguisher 6 and 9 lt
foam internal cartridge.



20091 Clip safety
for valve
M74x2
Cod. **20040**

20131

20177 55 gr CO2

20180

20208

20300

20201 200 gr

20351 350 gr

Cartridges CO2 filled



External cartridges
filled with CO2

Nitrogen and Co2 trolleys external cartridge

N2 external cartridge

max pressure 200 bar
outlet female W 21,8
valve 21818



N2 external cartridge

max pressure 200 bar
outlet male W 24,32
valve 21818_1



Code	Volume lt	Pressure bar	Cylinder mm	Outlet thread
41213	2	105	104	W 21,8
41213_1	2	140	104	W 21,8
41198	3	140	104	W 21,8
41198_1	3	155	104	W 21,8
41198_2	3	160	104	W 21,8
41198_4	3	180	104	W 21,8
41198_3	3	190	104	W 21,8
41214_1	7,5	115	140	W 21,8
41214_2	7,5	135	140	W 21,8
41214	7,5	90	140	W 21,8

Code	Volume lt	Pressure bar	Cylinder mm	Outlet thread
41231	2	105	104	W 24,32
41230	3	140	104	W 24,32
41230_1	3	155	104	W 24,32
41230_2	3	160	104	W 24,32
41232	7,5	90	140	W 24,32

CO2 external cartridge

valve 21802



Code	Charge gr/kg	Cylinder mm	Outlet thread
41199_1	1,3 kg	105	W 21,8
41199	2 kg	105	W 21,8
41236	4 kg	136	W 21,8
41219	3,2 kg	136	W 21,8

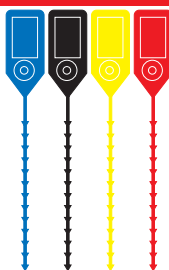
Seals

28019 Colored seals

Anti tamper seal for fire extinguishers valves.

It is possible to mark your logo for minimum quantity of 10,000

Box of 1.000 units



28022 Plastic seal numbered

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



Box of 100

28004

Anti tamper seal nylon. Box of 1.000 pcs



28015

Plastic seal red short. Box of 1.000 pcs



Anti tamper seal for safety pins

20005 Safety pin holder or service label.

Box of 200 pz



20004 Service card holder. Box of 1.000 pcs



28045 Roll of wire to use with lead seals.



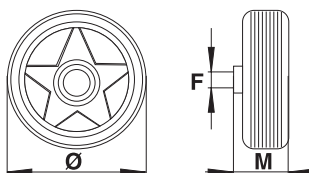
28014

Lead seals. Box of 5 kg



Wheels for trolleys

Code	Ø	M	F	Kg max	Notes
20911	100	--	--	70	swivel
20912	150	--	--	150	swivel
20913	300	70	20	200	galvanized steel disc
20941	350	80	25	200	plastic / rubber
20942	350	80	25	200	like 20913 + ball bearing
20943	410	80	25	300	like 20913 + ball bearing
20944	400	80	25	300	like 20913 + ball bearing
21921	200	47	20	120	plastic / rubber
21931	300	57	20	150	plastic / rubber
21941	400	85	25	180	plastic / rubber



20943

20944

20945



Carrying cylinders

Code	Model	diam	wheels
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



100 and 150 mm swivel

20911



21921



21931



21941



Siphon tubes

Code	Ø tube	L/mm	Type	Code	Ø tube	L/mm	Type
21700	16x12x1,5	260	P kg 1	20728	M8x1x6	300	PI6 int cart
21734	16x12x1,5	295	P kg 2	21701	14x10x1,5	440	CO2 kg 2 alum
21733	16x12x1,5	307	P kg 3	21703	14x10x1,5	590	CO2 kg 5 alum
21738	16x12x1,5	380	P kg 4	21704	3/8"x13	990	CO2 kg 20 alum
21736	16x12x1,5	420	P kg 6	21705	3/8"x13	1190	CO2 kg 30 alum
21713	16x12x1,5	390	P kg 6	21733	16x12x1,5	307	foam lt 3
21714	16x12x1,5	465	P Kg 9	21720	16x12x1,5	460	foam lt 6
21709	16x12x1,5	525	P Kg 12	21706	27x21x3/4"	830	foam lt 50
21711	3/4"x21	760	P kg 30	21722	16x12x1,5	285	Firekill 3 kg
21715	3/4"x21	860	P kg 50	21723	16x12x1,5	355	Firekill 6 kg
21708	3/4"x27	1080	P kg 100	21724	16x12x1,5	553	Firekill 12 kg



Note: for all type of CO2 siphon tubes are made in aluminium

Accessories for maintenance

98316 mt 3 Spiral complete of quick connector code 97105

97105 Quick connector

28009 Pressure reducer 200 to 0/20 bar

28010 Pressure reducer 200 a 0/60 bar

20029 Nozzle adaptor

97140 Nozzle adaptor

98015 Stainless steel pliers

Quick connection to spiral code 98316

Nitrogen cyl 200 bar capacity 7,5-14-27-40 lt

other see page 98

ESTINTORE
1 KG POLVERE ABC 33A 2300 C
TOGLIERE LA SPINA DI SICUREZZA
IMPIGNARE IL TUBO DI SCARICA
PREMIERE LA LEVA E DIRIGERE IL GETTO ALLA BASE DELLE Fiamme
ATTENZIONE: L'APPARECCHIO IN TENSIONE
NON TOCCARE IL CILINDRO O LE PARTI METALLICHE

98015 Pressing the lever the pliers connect the valve 1/4", no tools, **time saving. Maintenance free.**

Inspection lamp

Includes batteries, inspect inside cylinders for rust, corrosion or damages. Includes extension 650 mm

21123



INSPECTION CYLINDER



Washers

Code	Description	mm
20021	Fiber red 3/4"	24 x 15,2 x 2
20049	Polythene 3/4"	24 x 13 x 2
20050	Fiber green 1"	30 x 21 x 2
20051	Copper 3/8"	23 x 17 x 1,5
21036	Fiber x powder/CO2	18,5 x 11,6 x 2
98315	Copper 1/4"	13 x 8 x 1

28005 Liquid seal. It substitute the teflon. Good for manometers, or npt CO2 valves.

45030

Teflon in rolls 1/2"



Test gauge for fire extinguisher

High quality precise can check the pressure of extinguishers..

20065 Test gauge for extinguisher with check valve M10x1 and 1/8".

98160 Test gauge for external N2 cartridge till 300 bar



Glycerine gauge in Stainless steel and brass with box.

Box with certificate of quality on conformity. 2 adaptors

Torque force spanner

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.

98024 Adjustable range 40/200 Nm
Factory set at 130 Nn for CO2

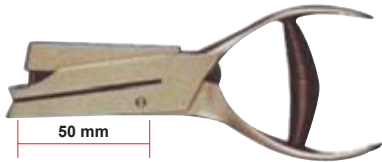


98023 Adjustable range from 20/100 Nm
Factory set at 70 Nn for dry powder complete with accessories.



Punching pliers

21131 Hole punching for tag of maintenance labels



21124 Hole punching for tag of maintenance labels



21132 Hole punching for tag of maintenance labels



21125 Collar ring EN3.7 useful after a recharge, can be punched with pliers.
On request your logo min 5.000 pcs.



Portable dynamometer

94003

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



Weighing scale

94004 Load cells, strong and reliable double display.
Precision 10 grams! **Max weight 30 Kg**, very light, small high precision.
Rechargeable battery included, just plug 220 volt to recharge.
Stainless steel plate.

94004 30 Kg



Dimension 25x25x15 cm

94005 Scale with display **programmable**.
Easily connectable with refilling CO2 or powder units enabling automatic stop when desired filling weight is reached. Rechargeable battery included, just plug 220 volt to recharge. Precision 10 grams!, **Max weight 60 Kg**. Solid metal frame, Stainless steel plate 30x40 cm.

94005 60 Kg



base cm 30x40

94002 Workshop type

Stainless steel cm 30x40
Max Weight kg 60
Precision 20 gr
Powered 220 Volt
Large display
Hard solid frame
Load cells



base cm 30x40

Trolley scale

94006

PROFESSIONAL
Stainless plate 60x80 cm
Proper weight kg 54
Precision 100 gr
220 Volt power supply recharger, includes batteries.
Extra strong metal framedisplay **programmable**.
Easily connectable with refilling Co2 or powder units enabling automatic stop when desired filling weight is reached.



base cm 60x80

Stainless plate 50x70cm
Proper weight kg 30
Precision 100 gr
220 Volt power supply recharger, includes batteries.
Load cells. Ideal for trolleys

94001



base cm 50x70

Fixed at floor level

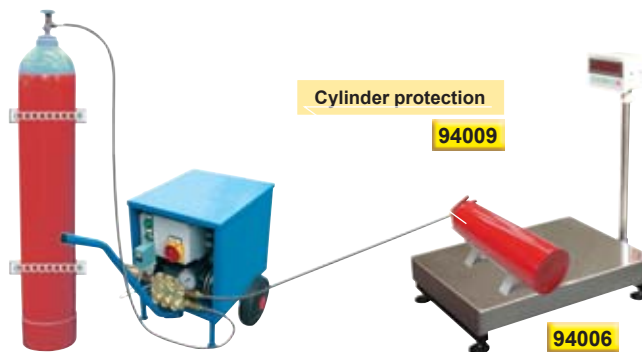


Optional lifting platform



Cylinder protection

94009



94006



Optional: electric board to join with programmable display. It stops CO2 pump automatically.

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 2 keys. Can be fixed on wall.

Label available in different languages.

91007 Plastic box for maintenance register for fire fighting equipments



60062 Metal box for maintenance register for fire fighting equipments



Key guard

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

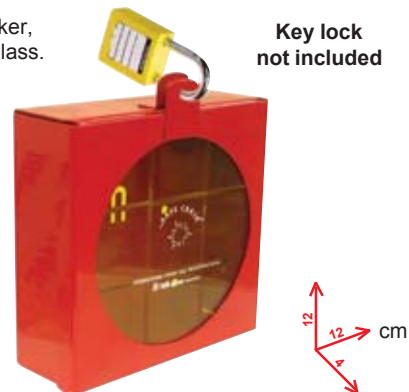
60064 In plastic. Break glass.



Economical, corrosion free.

60051 In metal, locker, Easybreak glass.

Key lock not included



60001 Made in plastic ABS, Easybreak glass



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 watereproof 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



Certified EN1869

92018 90x120 cm

92021 180x120 cm

CARES refilling powder unit 98200

98200

Suitable to refill and also to empty mobiles and trolleys.

Strong and compact steel structure.

Two wheel allow easy movements.

Inspection transparent plexiglas sleeve.

Filter easy to mantein. Ideal start-up to refill **with speed, ease, and very clean way.**

Dimension cm: 61x83x200

Weight: 110 kgs

Standard supply includes:

Adaptor for M 30x1 Cylinders

Adaptor for M74 and trolley 2".

Suction pipe cm 90 x 18 mm.

Suction pipe cm 120 x 22 mm



Optional

94001 scale up to 200 Kg

94004 scale up to 60 Kg

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 cylinder of kg 6 in less than one minute. .

Dry powder is aspirated from the sac and poured inside cylinder.

Can also pour from one cylinder or trolley to a secondary cylinder.

Exhausted dry powder



98285 Drum for powder exhausted

Refilling a trolley

It need adaptor 98200_3



Emptying cylinder

It need adaptor 98200_3



CARFILL, refilling powder unit 98200 1

98200_1 Refilling powder unit

Perfect and ideal for service extinguishers and trolleys directly to the customers sites.

Small compact, fast, efficient.

Special version for car service van.

Dimension cm: 50x75x160

Weight: 110 kgs

Standard supply includes:

Adaptor for M 30x1 Cylinders

Adaptor for M74 and trolley 2".

Suction pipe cm 90 x 18 mm.

Suction pipe cm 120 x 22 mm.



IMPACT TEST

This unit can perform the impact test of portable extinguishers as requested by EN 3.7 point 5.

The extinguisher shall be held in the vertical position in the compation test machine and dropped vertically 500 times, from a height of 15 mm, at a frequency of 1 hz, onto a rigid horizontal steel plate.

Voltage : 380 V 50/60 Hz IP 55

Dimensions : 560 x 800 x 400



FILLING KIT

98200_3 Accessories to refill trolleys



Special adaptor permits to fill portable and trolley powder fire extinguishers with inlet neck ring form 50 mm to 130 mm.
Use with Cares, Carfill Exxar

Adaptor belt

98200_2 Kit of 50 x 6 kg bags

98200_5 Kit of 50 x 12 kg bags



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



EXXAR, refilling powder unit 98201

98201

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

Electrical motor 380V 60 Hz 3 Hp
Flow of powder: ~ 15 kg/min
Refill 6 kg in almost 30"
Dimension: 500x750x1600
Weight: 110 kgs
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



High power vacuum pump



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

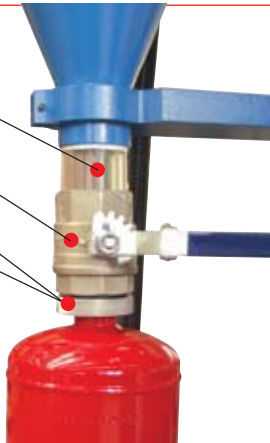
98202 Inspection nipples 2" plexiglas

98251 Butterfly valve 2"

98205 Adaptor for M 74 cartridge

98206 Adaptor for portables M30x1

98208 Suction pipe 900 x 24



FILTER FOR FILLING POWDER

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



98216

Electric vibrator



TROLLEY FILLING KIT

98200_3

Adaptor in special rubber cone suitable to refill any trolley with filling neck ring from 50 mm to 130 mm; just place it over and start a quick refill.

98200_4

Adaptor that connect directly the unit with a swivel screw 2".
Suitable for trolleys stored pressure or cartridge with neck ring 2"

98200_3 Trolley adaptor



98200_4 Direct flex trolley adaptor 2"



“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. 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.

Technical characteristics:

Vacuum pump: 220 Volt - 0,75 Kw
Scale 40x60 cm, precision 10 gr.
Flow rate: ~ 1 kg/sec
Vacuum pump till 2 Kw optional for higher performance



Console dimension:

Height :100 cm
Width :50 cm
Depth :40 cm

Work-bench dimensions:

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

Filling speed

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

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;
- Cylinder 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 brass 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.

98250

Automatic refilling dry powder of portable extinguishers.

Vacuum filter, stop impurity

vacuum recover 12 kg

For tools or to fix additional CO2 filling unit

same unit to fill portable and trolley, quick, automatic stop

Suction pipe: connect to hopper for automatic operation or manual dip tube when use small quantity such as Monnex, Purple K, special powders.

Multipla can refill easily and quickly fire extinguishers and trolleys. The brass filling head is designed and suitable for both, without any tool. It suck the powder from a hopper or big bags 1,000 kg (see next page).

EASY PROGRAMMABLE DISPLAY



Optional:
Scale 200 Kg
Lift board
94007

“ 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.



dim:100 x100 cm

98253

Additional structure to hold a big bag of 1,000 Kg. It keeps free the fork lift for other uses.



Multipla and hopper



“98150” Powder disposal unit Big Bag

98150 Powder disposal unit into a Big Bag

This unit solve the problem to empty exhausted extinguisher and recover the powder for correct disposal respecting the environment. The unit consist in very large filter connected to a 1,000 kg big bag.

The pallet below holds the big bag fixed to the filter easily with fast belts and metal structure.

The structure is supplied with 4 wheels for easy movement.

The structure is easy assembled with bolts, enabling the shipment with a very small volume obstruction.



Just connect a hose of pressurized extinguisher or trolley any size and discharge it in few seconds. Absolutely clean, dust free, no electricity needed. Maintenance almost free, just a flow of low pressure compressed air to clean the large filter.

Color : Blue
Weight : 200 kgs
Dimensions : 260 x 160 x 160 cm

“98603” Compressor 20 bar with dryer dehumidifier

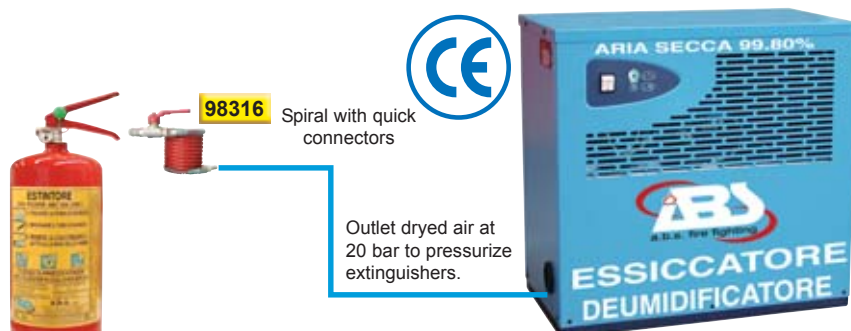
98603 Air Compressor 20 bar complete with side dryer dehumidifier.

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

PROFESSIONAL air compressor, 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 : 0,32 kw 220 one phase
Dimensions : 530 x 510 x 300 mm
Weight : 36 kgs



98602 Dryer-dehumidifier stand alone, 220 V 50/60 Hz max 35 bar.



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.

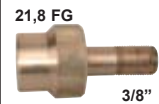
Motor: 220 V 50 Hz 2HP monophase. **Highly suggested 3 phase.**
Flow charge rate: 4 kg / min. (higher on request)
Combined with an electronic scale with display 94005/94006 it is able to charge and stop automatically with safe and precision.



Spare parts for CO2 Carbon Dioxide refilling units

98116

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



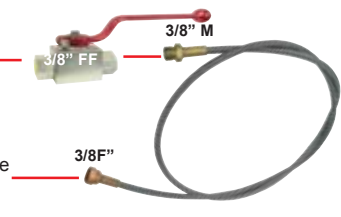
98115

High pressure
ball valve 500 bar



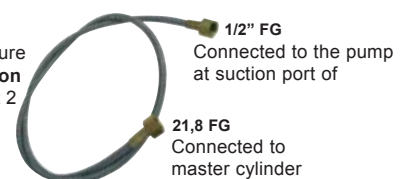
98115

High pressure
delivery hose
for CO2 mt 1,8



98114

High pressure
hose suction
for CO2 mt 2



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.

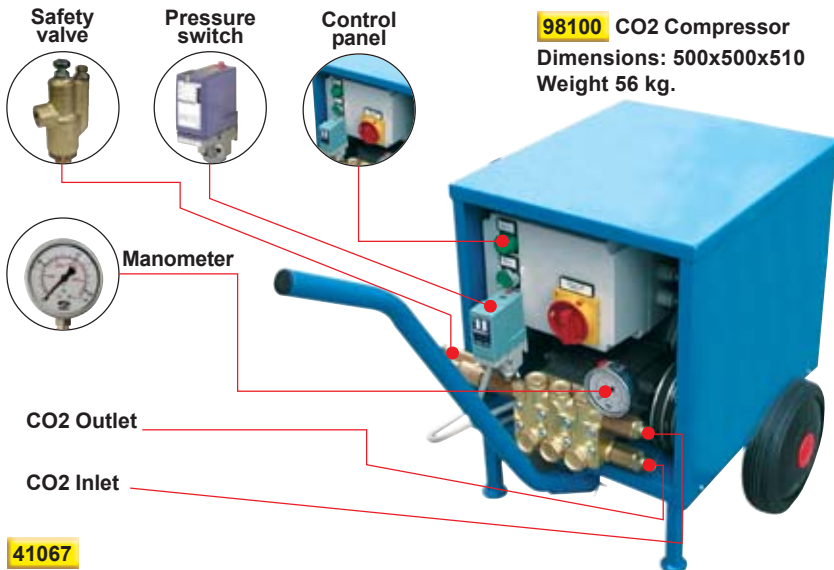


98107 Safety valve

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



3



41067



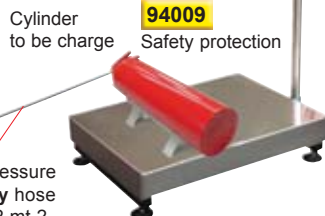
High pressure
hose suction
for CO2 mt 1,8

Cylinder
to be charge

94009

Safety protection

High pressure
delivery hose
for CO2 mt 2



"98051" CO2 Internal Cartridge Filling Unit

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.

HOW TO FILL A CARTRIDGE

98051 Refilling rig



DIMENSIONS

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

20408

10-mm

Copper Disk
for internal
cartridge



41067 Master cylinder 30 kg
filled with CO2



98100

CO2 compressor



94006

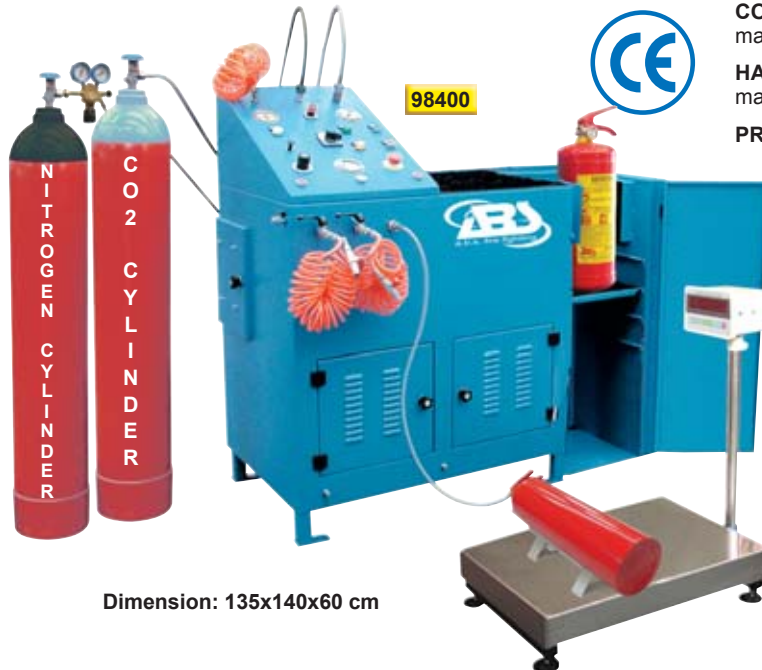
OPTIONAL SCALE:
Programmable electronic
scale, automatic stop
when set weight reached.

Cartridge
to be charged



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 syze 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.

TECHNICALS 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 3pahses on request)
Weight :180 Kg

Optional
94002 Electronic scale manual
94005 Electronic scale automatic

“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: 135x140x60 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.

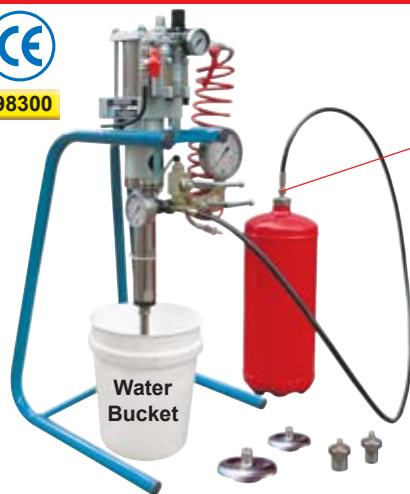
Cyl diam 70 / 320 mm
Torque force 100 / 300 Nm
Main switchboard 24V.
Electrical motor 220 V 1,5 Kw
Dim: 140 x 42 x 400 cm.



"98300" Hydropneumatic test



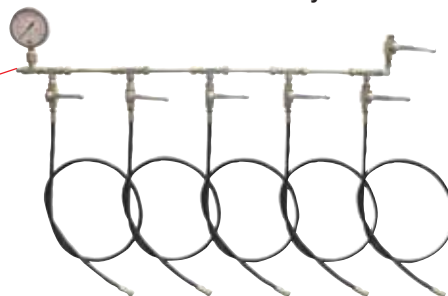
98300



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. The unit is supplied with adaptors for extinguishers and trolleys M30 x1,5, M74x2, 2", 3/4 " 25E for CO2, 2" Storz for Hoses. 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 use also to make a burst a cylinder; normally dry powder cylinder blasts at range from 60 to 90 bar. It can be used to test also flat fire hoses, rubber high pressure hoses, hose reels.

3

"98901" Hydraulic test and dryer machine

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



98901

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

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

"98804" Drying machine 5 units

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

Equipped with a 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 80

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



98801

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
The slips is adjustable to fix in comfortable height the cylinders.
The strong structure made of steel is design to be fixed to wall or floor.
Clamps pliers are with protection in special rubber in order to avoid scratches to the paint of the cylinder or bottle.
Double activation push-button: need 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 a larger CO2 bottles.

Torque force spanner

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

98024

Adjustable range 40/200 Nm
Factory set at 130 Nm for CO2 valves
CH 30 mm



Other size on request



98023

Adjustable range from 20/100 Nm
Factory set at 70 Nm for dry powder complete with accessories.



6 mm

For internal cartridge and trolley with cap 2"

For powder extinguishers from 1 to 12 kgs

9 mm

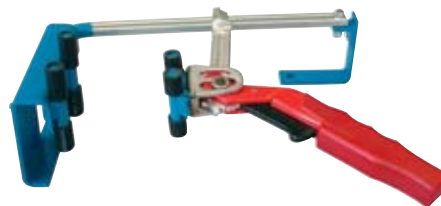


Manual clamp release

98013

Manual clamp, useful anywhere.

Dimensions: 45 x 20 x 20 cm



Trolley multipurpose for fire extinguishers

Revolving vice makes possible to rotate the extinguisher completely throughly shake the powder.
The 4 position (0°, 90°, 180° and 270°) enable the whole extinguisher to

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 when work must be carried out in different location.

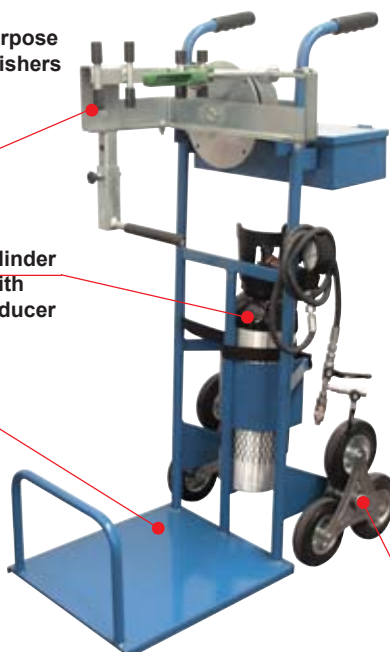
98029 Trolley multipurpose for fire extinguishers

Manual clamp for different size of extinguishers

Nitrogen cylinder complete with pressure reducer

Base for transport extinguishers

Dimensions: 115x50x80 cm
Weight: 30 kg



Triangular wheel configuration for easy moving on stairs

Revolving vice makes possible full rotation

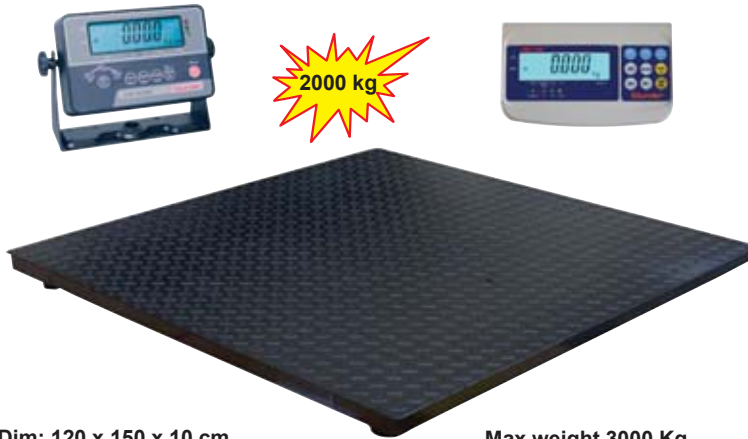


ELECTRONIC SCALE AND DINAMOMETERS

Platform scale

94001_1 Digital 4 cells platform scales

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.



Dim: 120 x 150 x 10 cm

Max weight 3000 Kg

Portable dynamometer

94003

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



94010

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



94010_1 Certified



94004 Electronic balance. Load cells

LIGHT, COMPACT, PRECISE.

Large display, stainless steel scale-pan.

Maximum weight capacity : 30 Kg

Weight precision : 10 gr

Scale-pan dimensions : 25x25xH15cm

Power supply : 220 Vac + battery charger included



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



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



Multi use scale

94001 Electronic scale. Load cells. For

portable and wheeled extinguishers, with

electronic display over metallic pole and

stainless steel

scale-pan.

Rechargeables batteries

Includes battery charger

220 Vac - 50 Hz



Maximum weight capacity: 300 Kg
Weight precision : 100 gr
Dim : 60 x 80 cm

94006 Electronic balance. Portable and

trolley. 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.

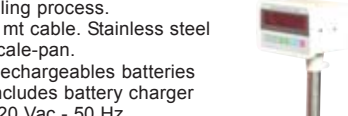
2 mt cable. Stainless steel

scale-pan.

Rechargeables batteries

Includes battery charger

220 Vac - 50 Hz



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



94009

Protection for
CO2 Cylinder

94006

Example at
floor level.



Example with lifting
platform



Lifting
platform
optional

COBRA Compressors breathing apparatus air H.P. 300 bar from 80 to 215 ltm

COBRA is a range of quality production of high pressure compressors and scuba diving equipment for breathable air and technical gases like Nitrox, Trimix, Helium, Nitrogen, Hydrogen and Methane.

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 taken up the challenge of the technological evolution and export their 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 divers quality breathable air and a versatile equipment. From the firefighters who need to rely on the equipment even in the most extreme conditions to the keen Paintball players, everybody is enthusiastic about a.b.s. products which embody passion and accuracy.

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	: 0.84 m (33")
Width	: 0.89 m (35")
Depth	: 0.60 m (23")
Noise	: 71,9 dB ISO 3746
Dry weight	: 177 kg (390 lbs)
Breathing air	: DIN 3188 EN 12021 CGA E

Optional accessories

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

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.



98060 Automatic drain, 400V 50Hz 3 phase.

98060_1 Automatic drain, 440V 60Hz 3 phase.

3

Filling station for air cylinder 100 l/min

WITH FRAME



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

Technical characteristics

Charging rate	: 100 l/min - 4,8 m3/h
Filling time cylinder at 300 bar:	
3 lt cylinder	: < 6 min
15 lt cylinder	: 37 min
Working pressure	: 315 bar
Rpm pumping unit	: 2800
Driven by	: Three-phase electric motor
Power	: 3 Kw - 4 HP
Dimension	
Length	: 0.84 m (33")
Height	: 0.89 m (35")
Width	: 0.60 m (23")
Noise	: 83 dB ISO 3746
Dry weight	: 56,7 kg (125 lbs)
Breathing air	: DIN 3188 EN 12021 CGA E

Optional accessories

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

Filling station for air cylinder 80/100 l/min

WITHOUT FRAME



98067 80 lt/min, 230V 50Hz mono phase

98064 100 lt/min, 400V 50Hz 3 phase

98064_1 100 lt/min, 440V 60Hz 3 phase

Filling station for air cylinder 215 l/min

Complete with

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



Optional accessories

- Automatic condensate drain
- Autostop
- Complete automatic switchboard

98063 Semi automatic 400V 50Hz 3 phase

98063_1 Semi automatic 440V 60Hz 3 phase

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	: 0.84 m (33")
Width	: 0.89 m (35")
Depth	: 0.60 m (23")
Noise	: 71,9 dB ISO 3746
Dry weight	: 177 kg (390 lbs)
Breathing air	: DIN 3188 EN 12021 CGA E

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



Filling panel 98066

Filling panel complete with pressure regulator.

2 Outlet
at 300 bar



98066

2 Outlet
at 200 bar

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.

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

Big brands like FUREX and TOTAL, CRODA KERR are European manufacturer 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.

As a good role, checking an extinguisher, even after many years if the powder appears fine, dry, flow able, without any checking principle it proves that not physical or chemical changes happened and may be considered as good as in the origin.



SOLID



LIQUID



GAS



METAL

DRY POWDER HAVE PASSEDTHE DIELECTRIC TEST UP TO 35,000 V.
FOR HANDHELD AND TROLEY IS RECOMMENDED THE USE UP TO
1,000 Volt AT 1 mt DISTANCE

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.



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

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

The powder ABC 30 and ABC 40 are normally supplied BLUE color.
On request can be supplied yellow, or white.

Dry Powder ABC / BC / D

Code	Class	MAP	in bags of 25 kg
31130	ABC	30%	Total or Furex
31140	ABC	40%	Total or Furex
31150	ABC	50%	Total or Furex
31170	ABC	70%	Total or Furex
31190	ABC	90%	Total or Furex
31100	D	for metal in pail of 20 kg	
31101	BC	MONNEX CRODA KERR pail of 25 kg	
31102	BC	Purple K , BC Potassium bicarbonate	
31111	BC	Potassium chloride 30% (available at 90%)	

Code	Class	(*) MAP	Bags of 1.000 kg
31230	ABC	30%	Total or Furex
31240	ABC	40%	Total or Furex
31290	ABC	90%	Total or Furex
31210	BC	30%	Potassium chloride

ABC powder are known as multipurpose and MAP contents distinguish the efficiency. **Purple K** potassium bicarbonate, is high efficient on B and C fire only. **Monnex** composed of potassium bicarbonate, and urea complex, is the best in B and C fires widely used in refineries. Class D fires is a special composed by salt efficient only for fires involving metals such us aluminium, zirconium, etc.

* MAP= Acronym of Mono Ammonium Phosphate. Highest is the percentage of MAP better is the performance on ABC fires



Foam extinguishant

Code	Canister of 25 Kg
33110	AFFF 3% UL LISTED on request
33124	AFFF 6% UL LISTED on request
33117	AFFF - AR 6% alcohol resistant
33125	FFFP fluoroproteinic
33126	Fluoroproteinic 6%
33112	Proteinic 3%
33127	Proteinic 6%
33128	Synthetic 6%
33130	Universal Univex 6%
33129	AFFF 6% CRODA



Code	Drum of 200 kg
33313	AFFF 3% film forming foam
33326	AFFF 6% film forming foam
33327	FFFP fluoroproteinic film+blanket
33328	Fluoroproteinic 6%
33329	Proteinic 6% general A and B fires
33330	Synthetic 6% medium/high expansion 1:800
33392	Universal Univex 6%
33398	Premixed -30°C Sealfire AB



Replacement spare charges for powder and foam extinguishers Marine MED

For powder extinguisher MED	
Code	Extinguisher type MED
31300	14161 Stored pressure kg 6
31300_1	14169 Stored pressure kg 6
31300_2	14167 Internal cartridge kg 6
31300_3	14160 Stored pressure kg 6
31301	14191 Stored pressure kg 9
31301_1	14194 Internal cartridge kg 9
31304	14172 Stored pressure kg 12
31304_1	14173 Internal cartridge kg 12



For Foam extinguisher MED	
Code	Extinguisher type MED
31303	14254 stored pressure lt 50
31303_1	14289 external cartridge lt 100
31303_2	14345 Stored pressure lt 150
31303_3	14361 Stored pressure lt 6
31303_4	14362 Internal cartridge lt 6
31303_5	14391 Stored pressure lt 9
31303_6	14392 Internal cartridge lt 9
31303_7	14360 (0°) stored pressure lt 6
31303_8	14360 (-30°) stored pressure lt 6



Sealfire AFFF super compound cartridge

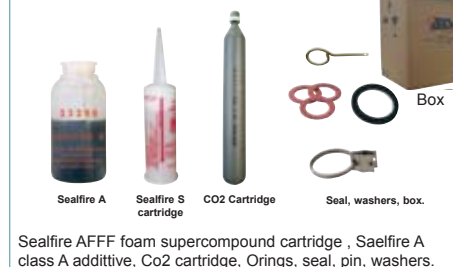
33397 Sealfire S AFFF cartridge 90 ml

Sealed cartridge for fire extinguisher 6 / 9 lt with internal CO2 cartridge operated.
The super compound **SEALFIRE S** sealed guarantee long life, unchanged performance for at least 5 years.
The pressure of CO2 cartridge, when operated, breaks the seal enabling its mixing with water.
It is compatible with water premixed with Inilam and antifreeze agents.



Sealfire MED with cartridge

1 box includes: replacement spare charges
FOAM extinguishers cartridge types:
14362 - 14392 - 13367 - 13394



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 from followings basic informations:

AFFF: Abbreviation of **A**queous **F**ilm **F**orming **F**oam, 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. Ratio 1:10

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.

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

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.

F.F.F.P. Fluoroproteinic: Combines the advantages of filming with those of fluoroproteinic.

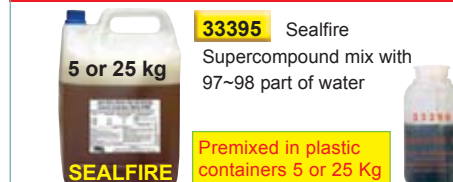
Synthetic: Synthetic foaming liquid mixable in water at 1% to 6%. Indicated for quickly intervention on Hydrocarbons fires, others non polar class A. Used to generate medium and high expansion foams.

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.

Sealfire bottles spare part

Code	Description	Supercompound
21134	for 9 lt - 270 gr	
21135	for 6 lt - 180 gr	
21170	for 50 lt - 1 kg	
21171	for 100 lt - 2 kg	
21172	for 150 lt - 3 kg	

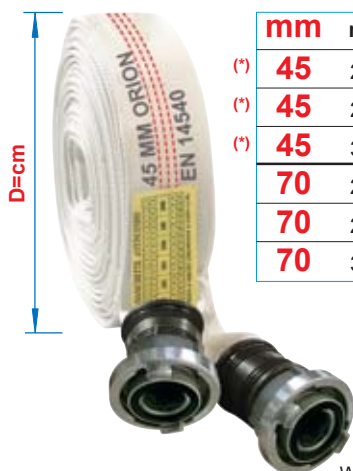
Sealfire and premixed foam



Code	Description
33396	Sealfire "A" premix improves class "A"
33399	Lifewater premix -30°C class A only
33398	Sealfire "AB" - 30°C premix class A-B
33393	Sealfire "F" premix kitchen fat fires.
33108	Antifreeze, mix 50% with water to -30°C

ORION

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



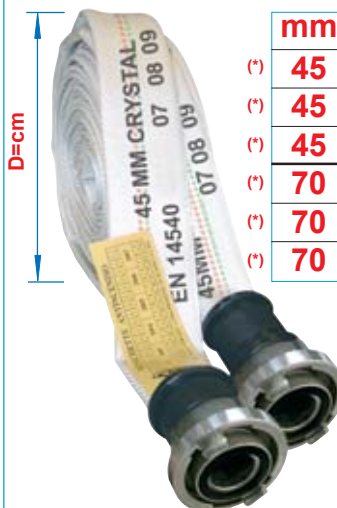
mm	mt	code #	Storz	D= cm
(*) 45	20	51224	C52	30
(*) 45	25	51324	C52	32
(*) 45	30	51424	C52	34
70	20	51227	B75	33
70	25	51327	B75	35
70	30	58427	B75	37

(*) Certified EN 14540
CSI certificate DC03/007/F10

	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

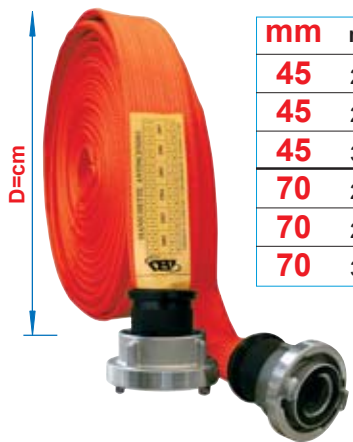
(*) Certified EN 14540
CSI certificate DC03-002-F08
Nato code NUC: 4720-15-162-3746

	mm 45	mm 70
Weight gr/mt of hose ~	200	370
Working pressure bar	12	12
Bursting pressure bar~	45	42

STAR RED

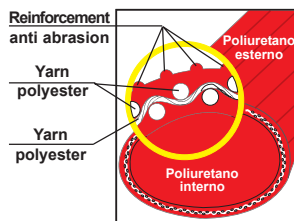
Double coating, polyester lining, inside and outside with poliuretano, good acid resistant, easy wash, do not need dry after usage. Reinforced anti abrasion. Mould aging resistant.

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

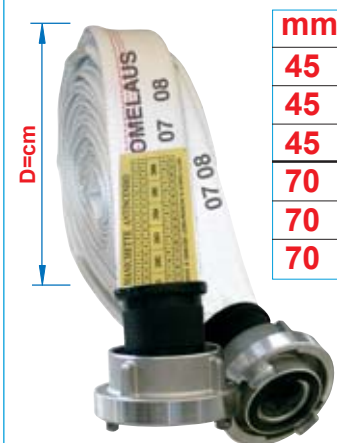
Conform to EN 14540



	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	370
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

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

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.



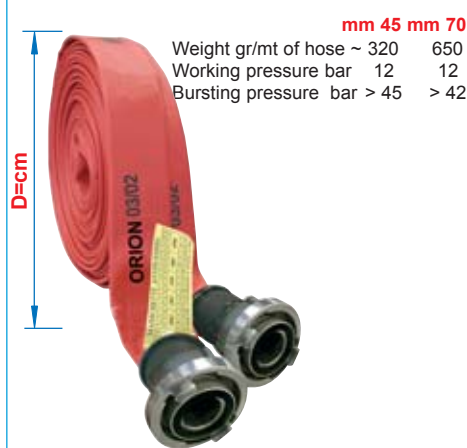
mm 45 mm 70
Weight gr/mt of hose ~ 410 650
Working pressure bar 15 12
Bursting pressure bar > 55 ≥ 50

PROFESSIONAL USE
FOR TRAINING, FIRE
BRIGADE, SUPER
ABRASION 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

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 45 mm 70
Weight gr/mt of hose ~ 320 650
Working pressure bar 12 12
Bursting pressure bar > 45 > 42

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

ORION + BSS

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

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



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

53222 mt 20, 25, 30
diameter 25 mm

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



SEMRIGID HOSE EN 694

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

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.



Branchpipe for reel EN 671-1

64025

Alum/ABS



1" Fem
K=30
Ø=7
Q=60

64013

Brass



DN 25
K=23
Ø=7
Q=45

64020

ABS



DN 25
K=23
Ø=7
Q=45

64009

ABS



1" Fem
K=80
Ø=9
Q=100

64011

Brass/ABS



64011_1 DN 20 3/4"
DN 25
K=30
Ø=7
Q=60

64016

Aluminium
HIGH FLOW



DN 25 o 1"
K=80
Ø=12
Q=160

Available with storz or
other connection on
request

GOOD

SUPERB

WATER NOZZLES, BRANCHPIPE, EN 671-2

K=Coefficient - **Ø**=Nozzle Diameter - **Q**=Flow Lt/min - **P**=Pressure in Mpa

"VARIO" flow nozzle

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.



62046

Nozzle 2"
High flow, light alloy

Storz C52



62048

Nozzle 2 1/2"
High flow, light alloy

Storz B75

Branchpipe High PRESSURE

64001 Nozzle gun 40 bar, 1" 180lt/min

Typically used in forest fire fires with pumps high pressure. Special design prevents the back hammer effect. 1" fem connection.



Fully conform to EN 671-2

64002 Nozzle gun 20 bar

Nozzle produce full or spray jet and shut off. Light alloy body, couplings all type available. Typically used by fire brigades.



shut off- full jet - spray jet

K=79
Ø=12
Q=135
P=0,3



Ø 12 mm

Efficacious and cheap
Hard palstic. Light alloy
Storz

Red nylon tube

Storz C52

64212

shut off- full jet - spray jet

K=145
Ø=16
Q=250
P=0,3



Ø 16 mm

Strong, all in light alloy.

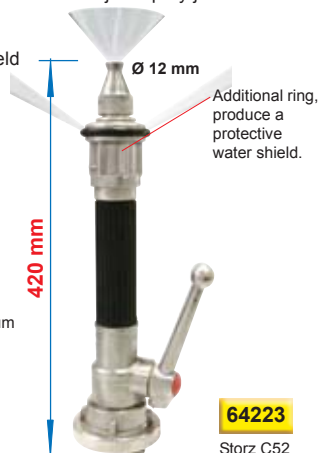
64222 Storz B75

64227 2 1/2" male
NO COUPLING

5

water curtain, protects fireman
shut off- full jet - spray jet

K=79
Ø=12
Q=135 + shield
P=0,3



Additional ring,
produce a
protective
water shield.

Strong, aluminium
in light alloy.

64223

Storz C52

water curtain, protects fireman
shut off- full jet - spray jet

K=145
Ø=16
Q=250 + veil
P=0,3



Ø 16 mm

Additional ring,
produce a
protective
water shield.

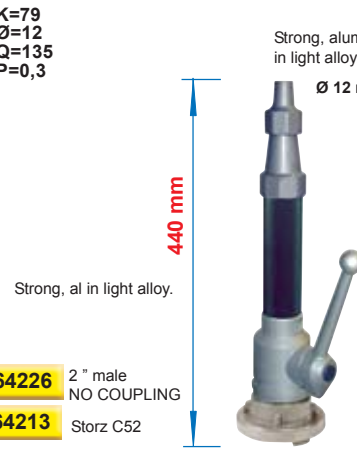
Strong, aluminium
in light alloy.

64224

Storz B75

shut off- full jet - spray jet

K=79
Ø=12
Q=135
P=0,3



Strong, aluminium
in light alloy.

Ø 12 mm

64226 2" male
NO COUPLING

64213 Storz C52

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



115 mm

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



145 mm

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



1 1/2"
64007

320 mm

K=200
Ø=17
Q=360
P=0,3



2" 1/2"
64012

290 mm

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

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.

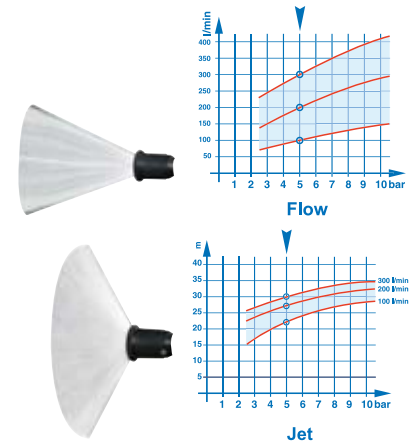
64006 Nozzle turbo JET 2" M



64005 Nozzle turbo JET 2 1/2" M



Fully conform to EN 671-2



Fire hose, branchpipe nozzle RINA MED SOLAS Approved



Hose manufactured according to EN 14540
Certified MED according to directive 96/98 EC

The Crystal fire hose is made with woven in polyester with high resistance, inner waterproofed with EPDM. Great resistance to the UV X-ray and to the ageing test. Mould-prevention. Light.
Available in diameters of, mm 38, 45, 52, 63, 75.

MARINE MED SOLAS

Poliester high resistance, internally coated with EPDM.
Approved MED SOLAS.



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

mm 45 mm 70

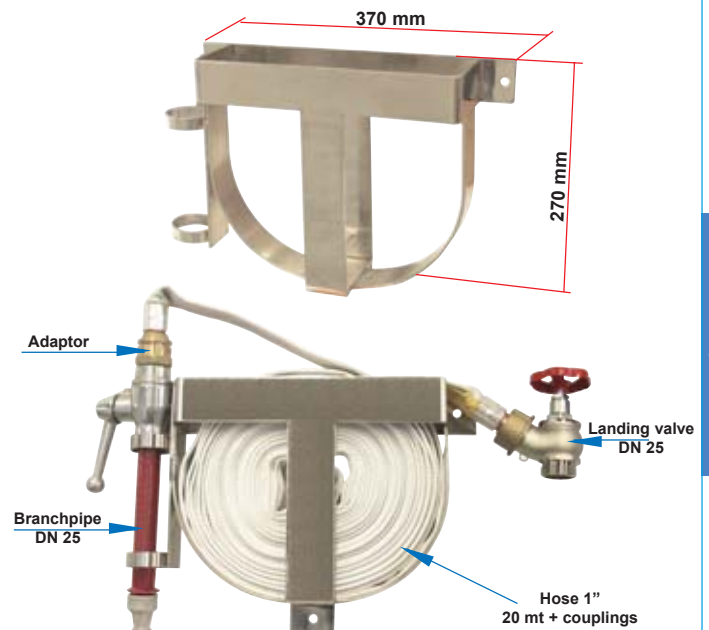
Weight gr/mt of hose ~ 220 410
Working pressure bar 12 12
Bursting pressure bar > 45 ≥ 42

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.



Available couplings for hoses of, mm 38, 45, 52, 63, 75.

Coupling STORZ



Coupling Afnor



Coupling BSS



Coupling Barcelona



Water branchpipe MED Marine Solas Approved



Branchpipe nozzle
MED Approved.
Full jet or spray.
Light alloy body.



2" C52 Storz
2" 1/2 B75 Storz

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

Hose systems with lay flat hoses CE EN 671-2

Specifications:.

Certified CE EN 671-2, directive 89/106/CEE.

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:

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

Special version for high corrosion climate condition may be produced with marine paint treatment.

Cabinets in 4 versions:



INDUSTRY
"626"



ROUND
EDGE "BT"



OUTDOOR
"ESS"



RECESSED
"IPG"



Accessories on request

All the cabinets may be with:

- steel metal blind door
- visible easy and safe breakable plastic sheet
- visible unbreakable plastic sheet

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.

Sheet in plastic easy breakable and unbreakable are use in cabinets with aluminium or brass frames.

EASYBREAK

NOFLAMES

Cabinet	spare part sheet #	
	Breakable	NOFLAMES
61242	60008	60008_1
62143	60009	60009_1
61144	60010	60010_1
61145	60011	60011_1
61172	60012	60012_1
61271	60013	60013_1
61272	60014	60014_1
61175	60015	60015_1
61176	60016	60016_1
61142	60038	60038_1



Breckable



Unbreckable

5

MODEL INDUSTRY "626" CE

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



Painted

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

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

Painted Zinc plate

Zinc plate + additional epoxy paint red.
10 years guarantee

"626"	mt
Industry	
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

"626"	mt
Industry	
62126_1120	15
62126_1220	20
62126_1520	25
62126_1320	30

Painted STAINLESS

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

"626"	mt
Industry	
62126_3120	15
62126_3220	20
62126_3520	25
62126_3320	30

Cabinet dimension 38x63x18 cm

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

Model "ESS" outdoor EN 671

Inclined roof, aeration slits.
EASYBREAK sheet. Tamper seal.



CE

On request
NOFLAMES



37x61x18 cm

Painted

Epoxy paint Ral 3000.

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

Painted
Zinc plate

Zinc plated sheet + additional
paint Red Ral 3000 10 years
guarantee.

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

Stainless steel

Not painted
Maintenance free.

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

Painted
Stainless steel

Additional paint Ral 3000.
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 EN 671

In or outdoor. **EASYBREAK** sheet. Tamper seal.



CE

On request
NOFLAMES



37x60x17 cm

Painted

Epoxy paint Ral 3000. Round
edge, better safety.

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

Painted
Zinc plate

Zinc plated steel + additional
paint Red Ral 3000 10 years
guarantee.

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

Stainless

AISI 304 not painted
Maintenance free.

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

Painted
STAINLESS

Additional paint Ral 3000.
Maintenance free.

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

Model "IPG" indoor or recessed EN 671

Wall indoor or recessed, grey primer, **EASYBREAK** sheet. Tamper seal.



CE

On request
NOFLAMES



36x56x16 cm

Aluminium frame. Grey primer.

Tamper
seal



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

"TM" aluminium frame gold
Code 62615_0420 mt 20



36x56 cm

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

Fire fighting equipments

info@absfire.it

Pag. 72

HOSE REELS Certified CE EN 671

SPECIFICATIONS:

Certified CE EN 671 Directive 89/106/CEE

4 main versions:

- Wall fixed, blind door.
- EASYBREAK** plastic transparent or unbreakable.
- Recessed, with easy break plastic.
- Recessed, with blind steel door.

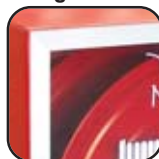
Standard supply includes:

- 1) Reel swinging 180°.
- 2) Nozzle 1" En 671-2.
- 3) Rubber hose, certified EN 694.
- 4) Brass shut off valve 1", with gauge
- 5) Tamper seal.

Wall blind



EASYBREAK glass



Visible recessed



Blind recessed



Reel with blind door, EN 671



68x68x23 cm

Standard rubber hose



Code	mt
63120	20
63125	25
63130	30

Semirigid "Optional"



Code	mt
63120_1	20
63125_1	25
63130_1	30

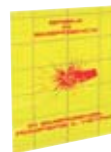
Reel with glass, EN 671

The sheet is unbreakable, elegant smoked transparent, frame in metal, optional luxury aluminium frame.



68x68x23 cm

NOFLAMES ★ other see page 43



On request easy breakable sheet see page 43

Rubber hose "Standard"



Code	mt
63120_2	20
63125_2	25
63130_2	30

Semirigid "Optional"



Code	mt
63120_3	20
63125_3	25
63130_3	30

Reel blind door + extinguisher, EN 671



95x68x23 cm

Standard rubber hose



Code	mt
63120_4	20
63125_4	25
63130_4	30

Semirigid "Optional"



Code	mt
63120_5	20
63125_5	25
63130_5	30

Recessed hose reel "TM" EN 671

Frame aluminium, unbreakable glass.

Blind door.



68x68x23 cm



68x68x23 cm

Rubber hose

Semirigid hose

Rubber hose

Semirigid hose

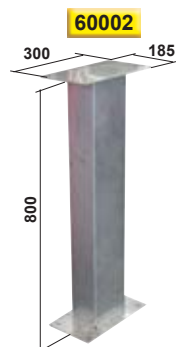
Code	mt
63120_6	20
63125_6	25
63130_6	30

Code	mt
63120_7	20
63125_7	25
63130_7	30

Code	mt
63120_8	20
63125_8	25
63130_8	30

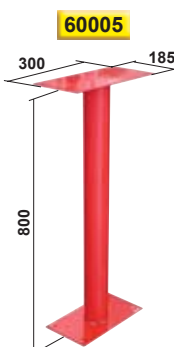
Code	mt
63120_9	20
63125_9	25
63130_9	30

Standing foot, for hose reel and cabinet



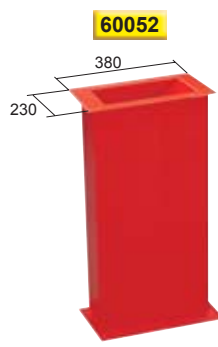
60002

STAINLESS STEEL



60005

STEEL PAINTED



60052

STEEL PAINTED



On request

Special version manufactured on customer specification and design.

HOSE CABINETS

Model wall type

Aluminium frame, **EASYBREAK** sheet, tamper seal.



Tamper seal



On request
NOFLAMES
see page 43

61243 37x60x17 cm for 2" hose 20 mt

61272 45x69x23 cm for 2" 1/2 hose 20 mt

Model Industrial "626"

Indoor or outdoor, tamper seal

Available in stainless steel
steel shine or painted



61148 38x63x18 cm **61149** 37x60x20 cm

61177 45x66x23 cm **61178** 50x68x25 cm

Stainless steel AISI 304

EASYBREAK plastic glass.



Tamper seal



On request
NOFLAMES
see page 43

61144 37x61x17 cm

61175 45x70x23 cm

Model recessed

Grey primer, Aluminium frame, **EASYBREAK** sheet, tamper seal.



Tamper seal



On request
NOFLAMES

60008_1 DN 45

60013_1 DN 70

Unbreakable glass spare

61242 36x56x16 cm

61271 45x66x23 cm

Model outdoor

Steel frame, **EASYBREAK** sheet, tamper seal, inclined roof.



On request
NOFLAMES

60038_1 DN 45

60012_1 DN 70

Unbreakable glass spare

61142 37x61x18 cm

61172 45x69x23 cm

Plastic

Extremely strong and climate resistance.



It can hold 2 hoses or 2 extinguishers 12 kg

61134 54x72x27 cm

Fiberglass cabinets

FIBERGLASS

Fire extinguisher

2 hoses or 2
extinguishers.

for marine or aggressive
climate conditions.



61136 56x56x22 cm

61132 6 Kg 30x56x22 cm

61137 12 kg 30x75x22 cm

Wall frames

It can be used to replace existings frames for recessed base cabinets. Easy fixing in the wall.

Made in steel

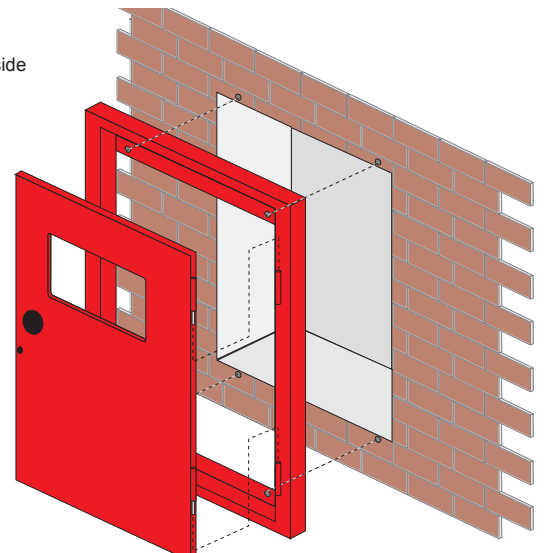
Transparent windows allow easy view of inside
equipment. Tamper seal.



Tamper seal

61141 41x65x2 cm

61143 49x72x2 cm



Available stainless steel shine

Hose coupling Italy UNI

Standard

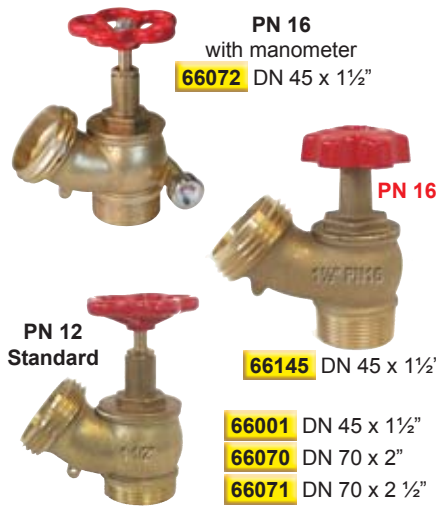
Heavy



Code	DN
65451	45
65701	70
65100	100
65125	125

Code	DN
65251	25
65452	45
65702	70

Landing valve Italy UNI

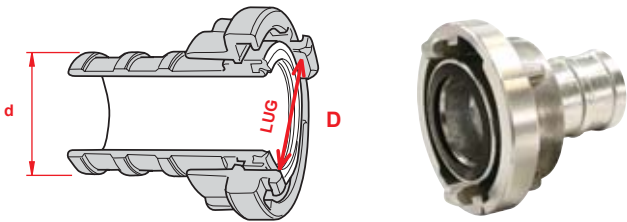


Key for landing valve



Coupling 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" distance between two internal thets.



Code	d	LUG
65302	45	59
65344	45	66
65345	70	89
65352	52	66
65363	63	81
65370	70	81
65371	75	89

Adaptors Storz German Din standards

Used in Germania, in most nord and east european countries. For correct identification specify the hose "d" and LUG space "D" distance between two internal thets.



Storz to Storz reducer

Code	d	LUG	thread
65300	52C	66	2" f
65300_1	52C	66	2" f
65303	75B	89	2 1/2" f

Code	LUG	LUG
65305	66	31
65307	81	66
65308	89	81

Adaptor with thread for hydrants
DIN 405



Cap with thread for hydrants
DIN 405



Code	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"

Code	d	LUG	thread
65304	52C	66	50x1/6"
65306	65C	81	60x1/6"
65309	75B	89	65x1/6"

Landing valves



66147 1" DN 25
Brass Chrome

66147 2" x 2"
Brass

66147 2" 1/2 X 2" 1/2
Brass

66074 2" 52-C LUG 66

66013 2 1/2"

666013_1 2 1/2"

66075 1 1/2" 52-C LUG 66

2 1/2" M BSS

Flanged

Coupling, adaptors, BSS

Know as John Morris BSS 336 INST, for english market.

65501 2 1/2" inst x d = 63 mm

65500 2 1/2" inst x d = 38 mm



BSS 336

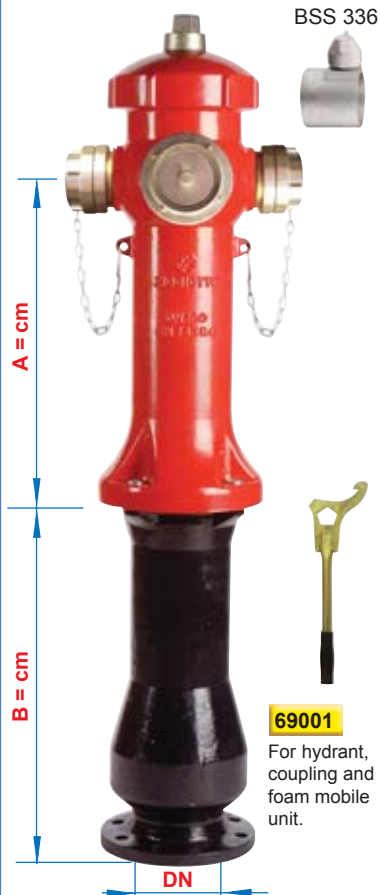
ADAPTORS

65503	BSS336 m x 2 1/2" m
65504	BSS336 f x 2 1/2" F
65505	BSS336 f x 2 1/2" m
65506	BSS336 m cap
66820	BSS336 m x 2" f

66013 Landing valve
BSS 336 x 2 1/2"



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



Type AD simple

Code	DN	Outlet	B / A
69101	50	2x2"	50/65
69202	70	2x2"1/2	50/65
69204	70	2x2"1/2+4"	50/65
69301	80	2x2"1/2	50/65
69303	80	2x2"1/2+4"	50/65
69401	100	2x2"1/2	50/65
69403	100	2x2"1/2+4"	50/65
69503	150	2x2"1/2+4"	50/68
69307	80	2x2"1/2	96/65
69308	80	2x2"1/2+4"	96/68
69407	100	2x2"1/2	70/65
69408	100	2x2"1/2+4"	70/65
69505	150	2x2"1/2+4"	98/68

Type ADR with pre-set break

Code	DN	Outlet DN	B / A
69206	70	2x2"1/2	50/65
69207	70	2x2"1/2+4"	50/65
69305	80	2x2"1/2	50/65
69306	80	2x2"1/2+4"	50/65
69405	100	2x2"1/2	50/65
69406	100	2x2"1/2+4"	50/65
69504	150	2x2"1/2+4"	50/68
69309	80	2x2"1/2	96/65
69310	80	2x2"1/2+4"	96/62
69409	100	2x2"1/2	70/65
69410	100	2x2"1/2+4"	70/65
69506	150	2x2"1/2+4"	98/68

69001

For hydrant, coupling and foam mobile unit.

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.

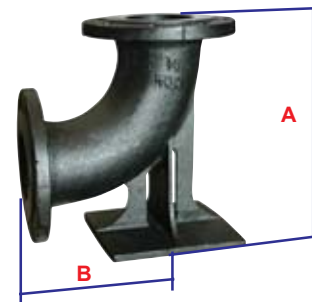
Epoxy powder painted in red RAL 3000.

Hydrant outlets Storz Din German Standard (other on request).

Inlet flange as customer request

Pillar hydrant 90° Elbow

90° elbow, cast iron with foot stand.



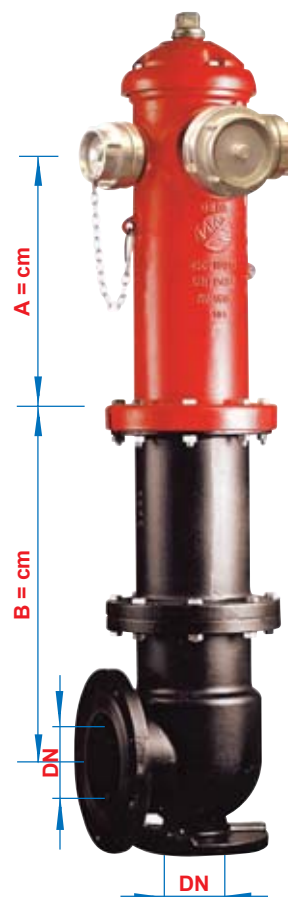
Code	DN	A cm	B cm
69006	50	13	24
69007	70	15	25
69008	80	18	27
69009	100	18	30
69035	150	21	33

TYPE ADR with pre-set break elbow 90° included

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.

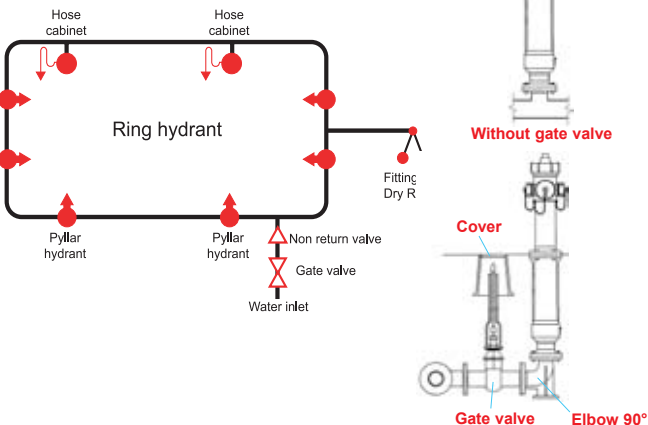


BSS 336

69001

For hydrant, coupling and foam mobile unit.

Code	DN	Outlet	B / A
69301_1	80	2x2"1/2	50/65
69303_1	80	2x2"1/2+4"	50/65
69401_1	100	2x2"1/2	50/65
69403_1	100	2x2"1/2+4"	50/65
69503_1	150	2x2"1/2+4"	50/68



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.



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

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.



 **UL Listed**
see page 92

Code	DN
69050	50
69051	65
69052	80
69053	100
69054	150

Standpipe for underground hydrant

Can be equipped with all types of couplings, Storz, BSS, UNI, Afnor, etc..



Code	DN	Outlet	H mm
With gate valve			
69012	45	1 x 2"	755
69013	70	1 x 2" 1/2	870
69014	45	2 x 2"	755
69015	70	2 x 2" 1/2	870
Without gate valve			
69016	45	1 x 2"	630
69017	70	1 x 2" 1/2	755
69018	45	2 x 2"	630
69019	70	2 x 2" 1/2	755

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 dim 490 x 257

69005 DN 65 dim 470 x 306

69010 DN 45 240 x 390 x 310

69011 DN 70 240 x 430 x 335

Gasket



Flange PN 16



Nut and screws



Code	DN
69036	50
69037	65
69038	80
69039	100
69040	150

Code	DN	N° Thread hole
69020	50	4 M 16
69021	65	4 -
69022	80	8 M 16
69023	100	8 M 16
69025	150	8 M 20

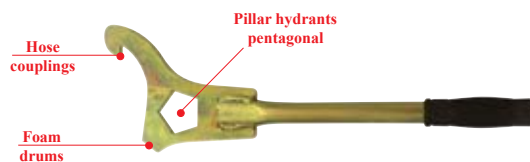
Code	DN	N°
69026	50	4
69027	65	4
69028	80	8
69029	100	8
69030	150	8

SPANNER FOR PILLAR HYDRANTS AND HOSES

69000 Universal spanner for couplings .



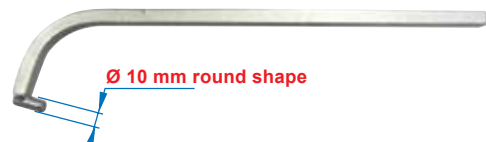
69001 For pillar hydrants, hose couplings, foam drums.



69003 Key for underground valves or gate valves



69002 Spanner for pillar hydrants.



69033 Spanner for pillar hydrants..



Square mm 30

RISERS, BREECHINGS CONNECTIONS

68636 Clapped siamese connections

inlet B75 Storz or 2 1/2" bsp



out 2xC52 storz or 2 1/2" bsp

all types
of couplings
available

68327 Not clapped siamese connections

inlet B75 Storz or 2 1/2" bsp



out 2xC52 storz or 2 1/2" bsp

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

Risers cabinets



Suitable to store the risers and protect them against improper use or vandalism.

Code	type	Dimensions cm
61301	2"	60 x 50 x 30
61302	3"	80 x 50 x 30
61306	4"	100 x 50 x 47

Hose roller

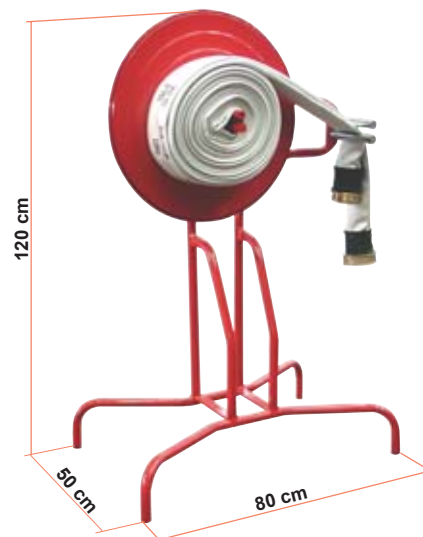
According to EN 671-3, hose should be tested periodically.

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.

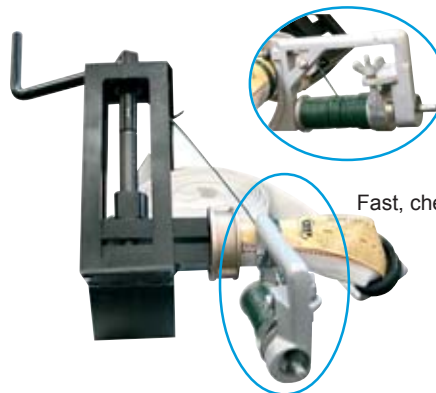


With standing base, indicated in workshops.



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 units EN 671-3

98010 Compressed air

Small portable mini air compressor, developed to be carried easily by hand having an advantage of small clutter.

The standard EN 671-3 consider the test every 5 years at 12 bar.

This units reach 17 bar, it has a pressure switch to set desired pressure.

Connection on customer request, Storz, BSS, Afnor, UNI, ecc.



Specifications:

Motor 220 V 1,5 Kw

Pressure 17 bar

Pressure switch 0 to 17 bar

Manometer Ø 100 mm with oil

May test 2 hoses simultaneously.

Dim. 65 x 60 x 50 cm - Weight kg 40

98030 Water

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.

Specifications:

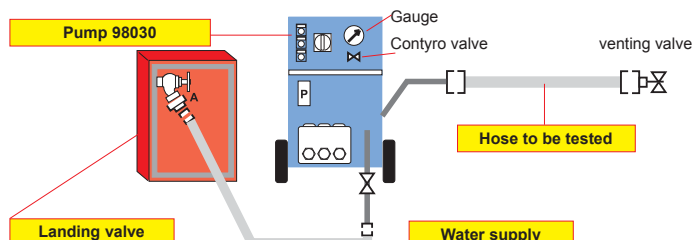
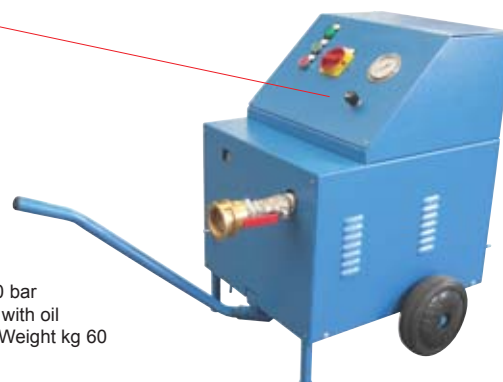
Motor 220 V 1,5 Kw

Pressure 60 bar

Pressure switch 0 to 70 bar

Manometer Ø 63 mm with oil

Dim. 59 x 70 x 55 cm Weight kg 60



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.

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.

67002



Dimensions 500 x 255 x170 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 UNI 45

Pitot tube.

It is a device than can check the dynamic pressure and flow speed of water, enabling to know exact flow rate.

Standard Couplings are Storz, other available



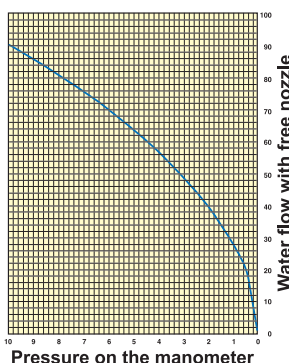
Box complete of:
PITOT Pipe stainless steel
Gauge 0/10bar 0-10 bar
Gauge 0/25 bar0-25 bar

67008 UNI 45
Instructions, flow charts,
conformity certificates'

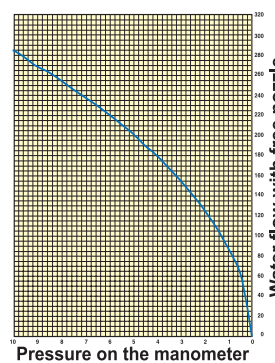
For professional technicians.

Flow diagrams DN 25 - 45 - 70,
used with nozzles calibrated Ø 8 - 12 - 16 mm

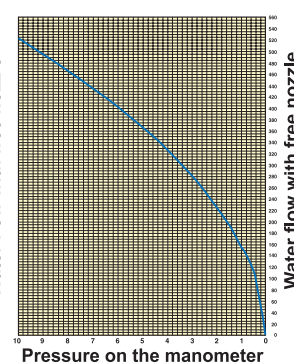
DN 25 nozzle diam.8 mm



DN 45 nozzle diam.12 mm



DN 70 nozzle diam.16 mm



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.



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 120	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 m³	12 of 140	3.073
IG-55 (50% argon 50% nitrogen)	60	> 60	439m³	11 of 140	2.702
IG-100 (100% nitrogen)	60	> 60	486 m³	13 of 140	3.151
IG-541 (1)	60	> 60	587 m³	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	8	633	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

~~Halon 1301 out of the market. NOT ADMITTED~~

Physcal properties

Chemical formula:	CF3CHFCF3
Chemical name:	Heptafluoropropane
Molecular weight:	170
Boiling point a 1,013 bar	16,4 °C
Freezeing point	127 °C
Critical Temperature	101,7 °C
Critical Pressure	29.26 bar
Critical volume	274 cm³/mol
Critical Density	573 kg/m³
Vapour Pressure 20 °C	3.90 bar
Liquid density at 20 °C	1410 kg/m³
Saturated vapor density at 20 °C	31,035 kg/m³
Specific volume of heated steam at 1,013 bar and 20 °C	0,1374 m³/kg

Filled cylinders with HFC 227

Cylinders 85 and 125 litres are approved CE-TPED, certified and inspected by Bureau Veritas, tested at 85 bar, working pressure 42 bar, directly manufactured in our factory. This is an example for preliminary analisys of cost purpose. Diameters of pipes and nozzles bore, must be performed by computer software calculation according to NFPA.

Code empty cylinder	Capacity lt	Kg charge HFC 227		Kg charge HFC 125		Diam. mm	Height with valve. mm	Cylinder Connect.	Valve Outlet connect.
		max	max	max	min				
43034	7,5	3.5	7.5	6.5	4.8	140	745	3/4"	3/4"
43035	14	7	13	13	8	176	890	3/4"	3/4"
47027	27	13.5	25	25	15	229	1500	3/4"	3/4"
43047	40	20	31	37	22	229	1550	1"	3/4"
43038	60	30	60	55	33	229	1900	2 1/2"	1 1/2"
43039	85	42.5	67	74	44	269	1825	2 1/2"	1 1/2"
43041	125	62.5	95	111	66	356	1640	2 1/2"	1 1/2"

43141 code for gas HFC227 ----- 43045 code for gas HFC125

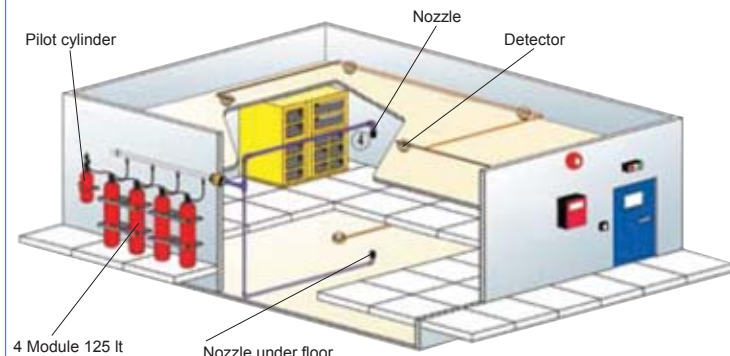
Flow rate Kg/sec

Pipe diameter	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

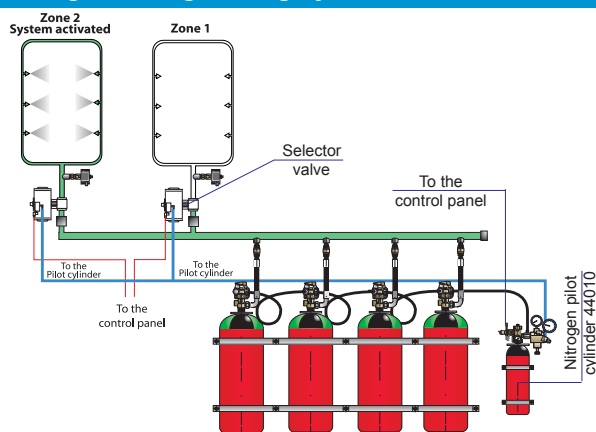
HFC 227 gas extinguishing system

Application Area

Control rooms, Computer rooms, Telecommunication facilities, Libraries, Museums.



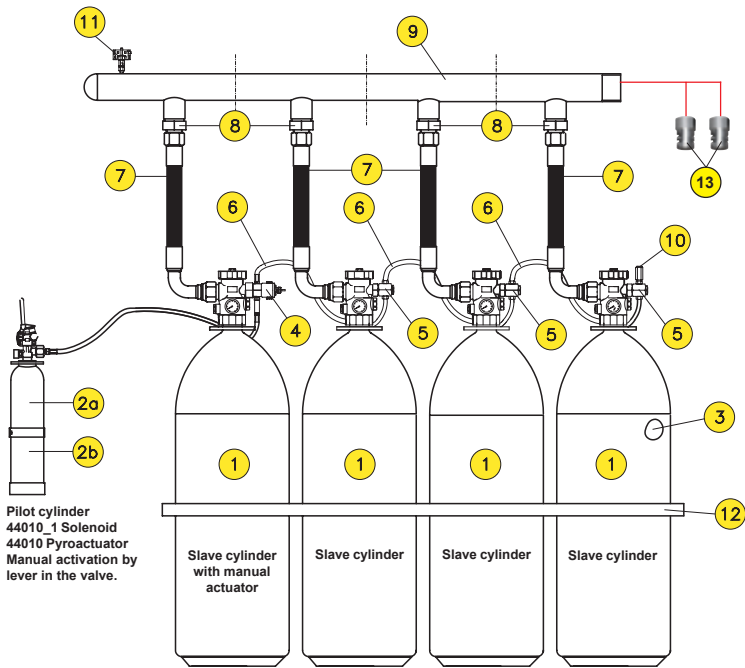
HFC 227 gas extinguishing system with selector valve



The pilot cylinder 44010 through the automatic fire detection and the control panel activate all the other slaves cylinders simultaneously.

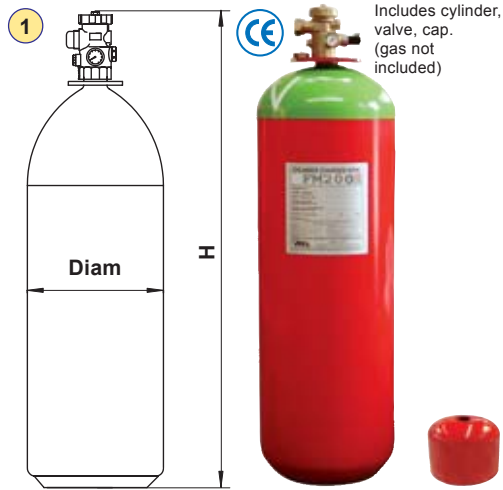
Example calculation

Archive room mt 20x20x3 = 1200 Mc at 42 bar WP
Necessary gas: 0,633 kg/m3 = Kg 760 = 8 module 125 lt
Diameter pipe and nozzle hole determined by computer software of Hughes Association U.S.A.



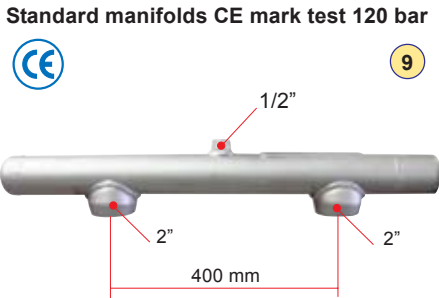
N°	Description	Code	Pos
8	Module with valve 125 lt, 42 bar	43041	1
1	Pilot cylinder (Solenoid 24 Vdc act.)	44010_1	2a-2b
750	kgs gas FM200	43141	3
1	Manual and pneumatic actuator	41184	4
7	Pneumatic actuator	41188	5
7	Hose between cylinders 1/4"mgo	44011	6
8	Duck bend	43037	7
8	Non return valve	43069	8
1	Manifold 8 places 6"	42007_1	9
1	Vent valve	41054	10
1	Pressure switch on manifold	41014	11
8	Wall bracket 8 unit of 41092	41092	12
12	1 1/2" Nozzle at 360°	44091	13

HFC Module



Code	Lt	Diam mm	H~ mm	Fm200 kg min	max	Empty kg~
43039	85	356	800	42.5	67	64
43041	125	356	1200	62.5	95	85

Manifold certified



Maximum flow in Kg and cylinders N. admitted in manifolds, must be verified and confirmed by computer calculations

Code	Diam mm	Max kg	Cylinder 125 Lt
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

Discharge nozzle

Supplied with a calibrated hole according to the computing calculation.
2 version 180° and 360°
On request other angle



Code	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 Wall bracket (KIT for 1 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.

1 Unit Wall bracket kit is complete with:

Threaded rod

Nut with the washer

Couple of profile "U" shaped. Available on size length max 3 mt



Pressure switch

41014 Pressure switch

The flow of the gas it close an electrical contact to turn off fans, doors, send an additional alarms etc.
Has a contact nc-no 10 A.
On request double contact.
Minimum pressure actuation just 2 bar.

On request
Pressure switch EEx

41018 Pressure switch
Version with 2 contacts 1+1



Valves and actuators for gases HFC

Rapid discharge, activated by:
Solenoid actuator **41031** a 24VCC. 1A
Pyro actuator **41183** universal voltage, 1A
Pneumatic and manual actuators **44010**

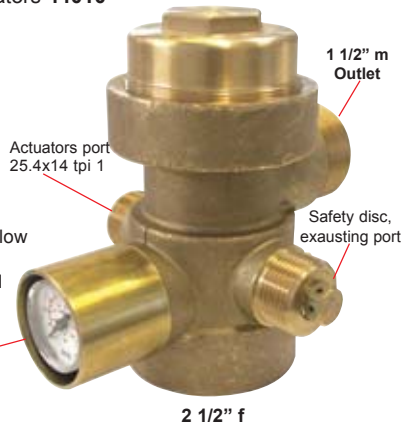
43072 3/4" npt outlet 3/4" m

43051 1" npt outlet 3/4" m

43052 2 1/2" f for cylinder
60/80/120/140 Lt
outlet 1 1/2" m

43101 Gauge with switch for low
pressure cylinder.
Wika. VDS Approved

Optional



2 1/2" f

41031 Electric actuator solenoid
24V.C.C. 1 A
41138 EEx explosion proof.



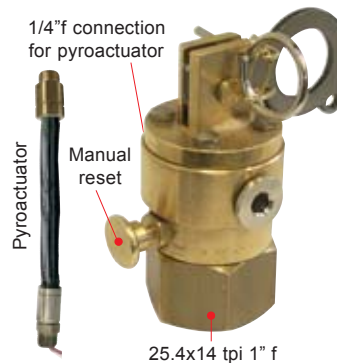
Usually used in a single cylinder

41184 Manual and
pneumatic actuator



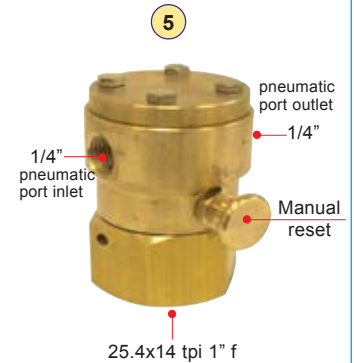
25.4x14 tpi 1" f

41183 Manual and pyroactuator



25.4x14 tpi 1" f

41188 Pneumatic actuator



25.4x14 tpi 1" f

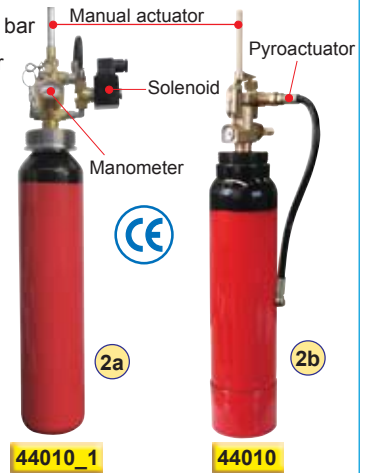
Pilot cylinder with solenoid or pyroactuator

44010 Lt 3, with pyroactuator max 200 bar

44010_1 Lt 3, with solenoid max 50 bar

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.

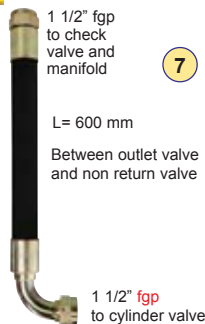
When it need to actuate more than 12 cylinders, or system with selector valves, then a bigger capacity of pilot cylinder is requested.



44010_1

44010

43046 Duck bend

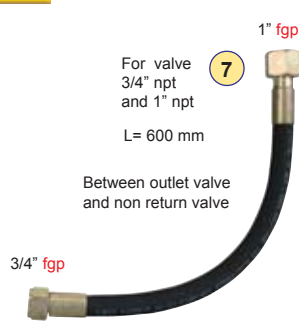


L= 600 mm

Between outlet valve and non return valve

1 1/2" fgp to cylinder valve

43037 Duck bend



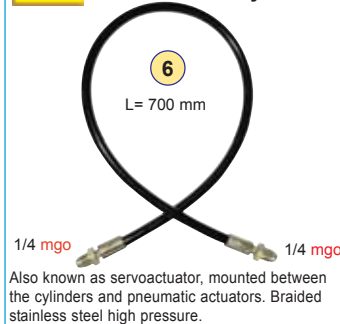
For valve 3/4" npt and 1" npt

L= 600 mm

Between outlet valve and non return valve

3/4" fgp

44011 Hose between cylinders



L= 700 mm

1/4 mgo

1/4 mgo

Also known as servoactuator, mounted between the cylinders and pneumatic actuators. Braided stainless steel high pressure.

41054 Vent valve

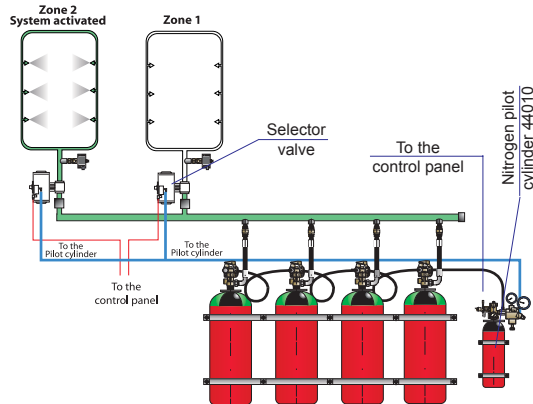


Mounted on the last cylinder system. In case of slight losses on the circuit, avoids the accidental discharge of the system.

44022 Selector valve PN 300 With electropneumatic servo-control at 24 Vcc CE marked. The solenoid valve, make it possible the passage of the gas from the pneumatic activation line (pilot bottle) to the pneumatic activator of the valve (maximum pressure 8-10 bar).



Code	Diameter
44021	1 1/2"
44022	1 1/4"
44018	2"
44023	2 1/2"
44093	3"
44094	4"
44095	5"
44096	6"



43069 Non return valve

Mounted between manifold and cylinder. Prevents the return of the gas from the manifold to the cylinder



2" m

1 1/2" m

43048 Telescopic non return valve

Manifold 2" m



Adjustable from 155 to 185 mm

In alternative at the 43069

Duck bend 1 1/2" m

Fire systems Inert gas 100% ecologic.

NYTRARGON®



300 bar!

Used for "total flooding" application. It is a mixture of gases present in the atmosphere, 50% "A" Argon and 50% "N2" Nitrogen. It is classified in the international standard with the trade name Ig-55. *Being natural gases in the earth atmosphere , never will be restrictions* on its use. In fact its impact in the pollution is zero. Dimensioning is realized If allowing NFPA 2001, or ISO 14520-14, with respective concentration min. 38% - 42%. *No thermal shock to computers.* The pure mixture gas does not stratify, permit an optimal visibility during the discharge and uniform saturation in the protected area.

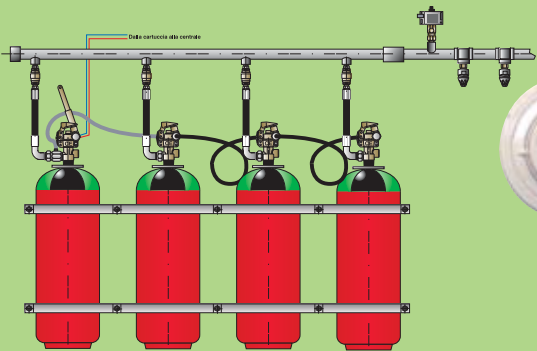
NYTRARGON® has zero environmental impact (ALT, GWP, and ODP=zero) NYTRARGON® extinguishes the fire reducing the oxygen concentration in the protected volume; it is, therefore, necessary ensure good tightening of doors and windows before discharge. For this reason after installation is performed the **Door Fan Test**, which discover eventual leakage of closures.

Is efficacious against all the types of fire, and is particularly used in to protect great values, where others extinguishing like water, powder, or foam cannot be used because they would cause damages.

Typical employee in a 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 wide time without danger, and the visibility does not come 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.*

NYTRARGON® it is a trade mark from a.b.s. S.r.l.



47039 Control panel EN 54-2/4 EN12094-1



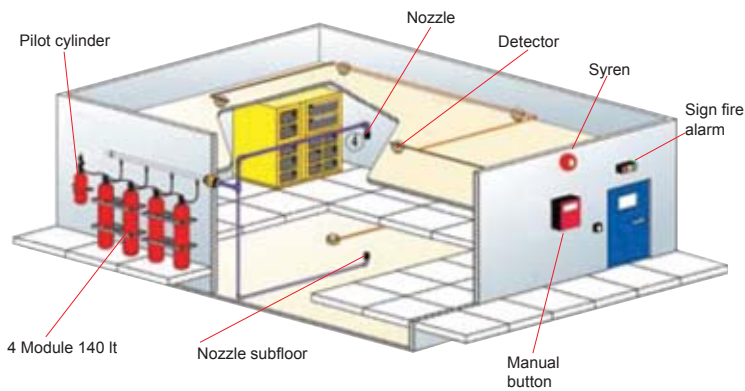
For system cross zone with cross zone detector.
EN 54-2/4 EN 12094-1 Certified.

Professional

NFPA 2001 Table

Characteristics	Gases
Chemical composition	Nitrogen 50%+ Argon 50% purezza 99,99%
GWP, ODP, ALT	0 (zero)
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 on the cylinder 80/140 Lt	at 300 bar Nmc 22,1 / 39
System design.....	Computerized calculation Huges orVDS according to NFPA
International standard.....	NFPA IG - 55 - ISO 14520-14
Application (CED - warehose - archive)	Also with presence of people in a room The percentage of OXIGEN 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 it protects:					
Code	Cylinder Capacity lt	Fill pressure bar	Protection room mc	Charge kg	mc gas on 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 the our technical office.

300
bar!



Advantages and benefits

- *It dose not leave residual*
- *Sure 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 the protection room*

ECOLOGIC 100%



ALT atmosphere life time
GWP global warming potential
ODP ozone depletion
potential = **Zero**

The nitrogen and argon are gas present in the air, pure, cleaned and dielectric, when they have a contact with flames, do not have reaction, they are not harmful products, non corrosive and return in the atmosphere without damage the environmental.

NYTRARGON® safeguards the people and

protect with effective safe way the delicate materials.

NYTRARGON® system uses cylinder of large-capacity 80 and 140 liters tested and approved CE TPED and the inspection test is ten-yearly.

The initial high pressure on the manifold through a special "ORIFICE" is reduced at 40-60 bar enabling remarkable savings costs on the installation pipes. The **NYTRARGON®** cylinder can be placed to great distance 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 55 200 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 in according to PED.

The pilot cylinder activated by the control panel or manually through the hoses allows to simultaneous activation of all the other slave cylinders.

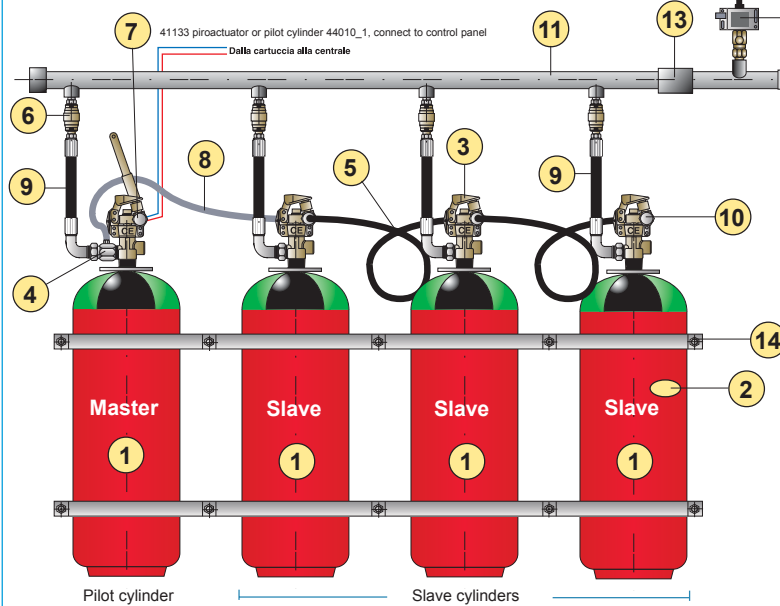
Separate pilot cylinder is needed to open selector valves used to switch the discharge in different area to be protected with a single bank of cylinders.

Example calculation:

CED room dimension 16x10x3 = 480 Mc
Number of cylinder at 300 bar: 5 of 140 Lt.

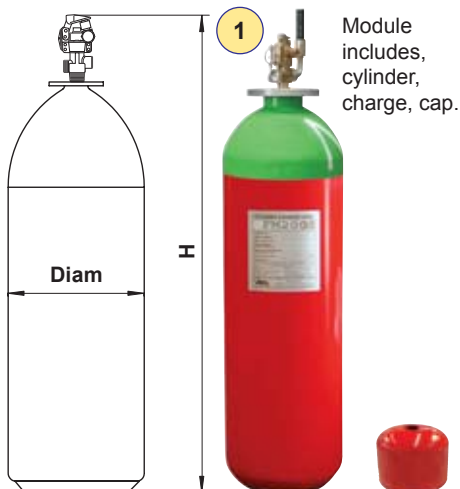
Note: The VT valve at 300 bar is complete with pneumatic actuation.

The diameter pipe and of the nozzle are determined from the computerized calculation.



N°	Description	Code	Pos
5	140 Lt Module charged at 300 bar	44145	1
275	kgs gas IG 55 included in 5 modules		2
5	VT valve at 300 bar	44082	3
1	Tee for pilot cylinder	41164	4
3	Hose between cylinders	44014	5
5	Non return valve	43075	6
1	Pyroactuator 41133 or pilot cilinder 44010		7
1	Hose pilot cylinders	44015	8
5	Duck bend	44061	9
1	Vent valve	41054	10
1	Manifold 5 places 1 1/4"	44046	11
1	Pressure switch	41014	12
1	Orifice calibrated	44006	13
5	Wall bracket 5 unit of 41092	41092	14
.....	Nozzle according to calculation	49008	15

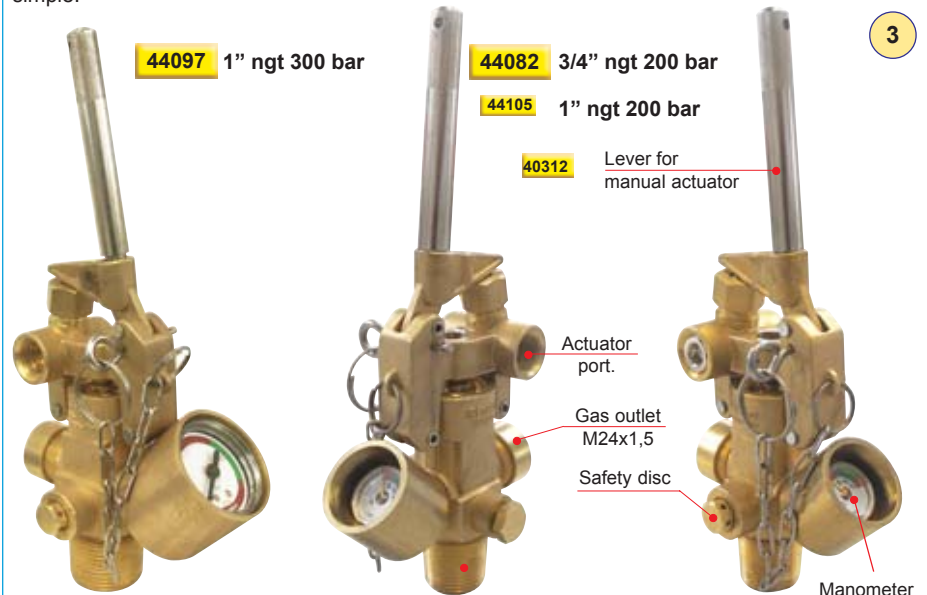
Cylinder module at 300 bar



code	lt	diam mm	h mm	bar	m3 protected
44079	80	267	2100	200	36
44139	140	358	2000	200	55
44083	80	267	2100	300	50
44144	140	358	2000	300	85

VT valve at 200 or 300 bar, CE PED

VT valve complete with pneumatic actuator, manometer, safety disc. Can be activated with a pyro actuator (41133), by hand with lever (43012) or with a gas pressure. Efficacious and simple.



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.

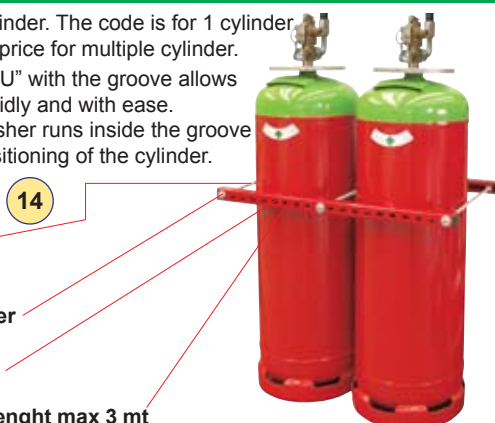
Wall bracket kit is complete with:

Threaded rod

Nut with the washer

Profile shaped "U"

Available on size lenght max 3 mt



Pressure switch

41014 1 contact 10 A

41018 2 contacts 10 A

The pressure switch, placed on the discharge manifold. One contact NA and NC.

Through the passage of the Nytrargon® in the manifold, it sends alarms sounds, it disconnects the electrical circuit, stops fan ventilation, shut the doors, etc...



Pilot cylinder with solenoid or pyroactuator

44010_1 Lt 3, with solenoid max 50 bar 24 VDC 1A



44010 Lt 3, with pyroactuator max 200 bar
Pyroactuator use 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.

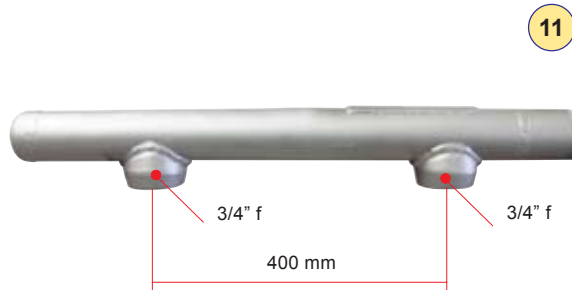


Manifold preassembled at 300 bar

44062 H.P. pipe type XXS diam. 2" and welded coupling.



Steel pipe schedule 160 & XXS, coupling ASA 6000.
Tested and certified CE PED 97/23. Test 750 bar



Number of Cylinders in manifold On stock available manifolds

Diam	N° cylinder	pipe
1"	4	sch 160
1 1/4"	8	sch 160
2"	14	XXS
2 1/2"	20	XXS
3"	34	XXS
4"	63	XXS

Cod	diam	Cylinder
44043	1"	2 place
44045	1"	4 place
44046	1 1/4"	5 place
44047	1 1/4"	6 place
44048	1 1/4"	7 place

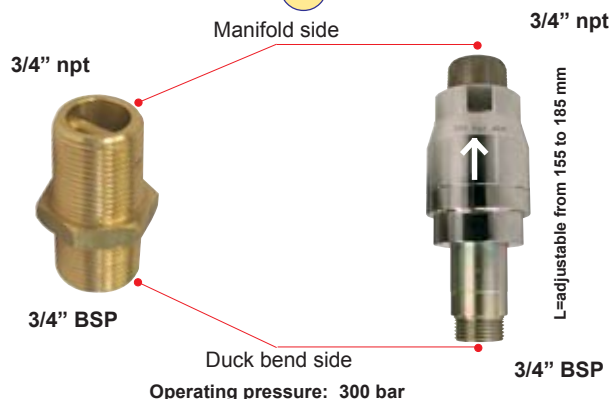
Non return valve

43075 Non return valve 3/4" x 3/4"npt

Prevents the return of the gas into cylinder.

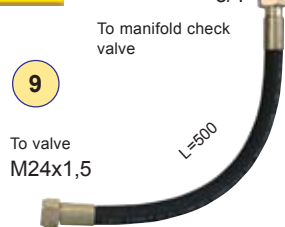
6 Standard type fixed

6b Optional type telescopic

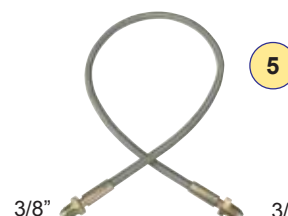


Operating pressure: 300 bar

44061 Duck bend 3/4"



44061 Hose between cylinders



41133 Pyroactuator

For for pilot cylinder. Drive in a few milliseconds.
Possibility of monitoring the current on the panel.
Universal voltage, 0,5A



41150 Solenoid actuator

24 V DC 1 A for for pilot cylinder



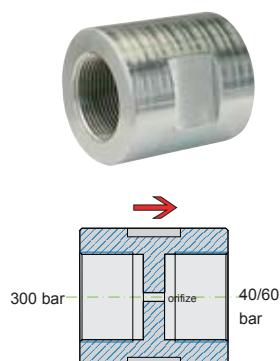
Orifice calibrated for manifold

44040 3/4"

44006 1 1/4"

44017 2"

13



Necessary to reduce the gas pressure during the discharge from the manifold to the distribution lines, from 300 bar of the cylinder to 40 ÷ 60 bar after the orifice. Orifice size is determined by computing.

Discharge nozzle

In aluminium, supplied with a calibrated hole in according to the computing calculation.
Flaps at 360° used far from walls, 180° the walls. 90° angle available.

15

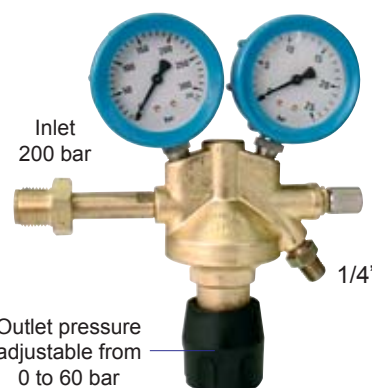


Flow Kg/sec

Code	diam	min	max
44007	1/2"	3,51	20,96
43026	3/4"	6,34	37,86
49008	1"	10,54	62,89
49090	1 1/4"	18,75	112
49091	1 1/2"	25,93	154,7
49092	2"	43,85	261,7

Pressure reducer

28009 0/20 bar to activate the selector valve
Used to active the selector valve, requiring the maximum pressure of 8 bar.



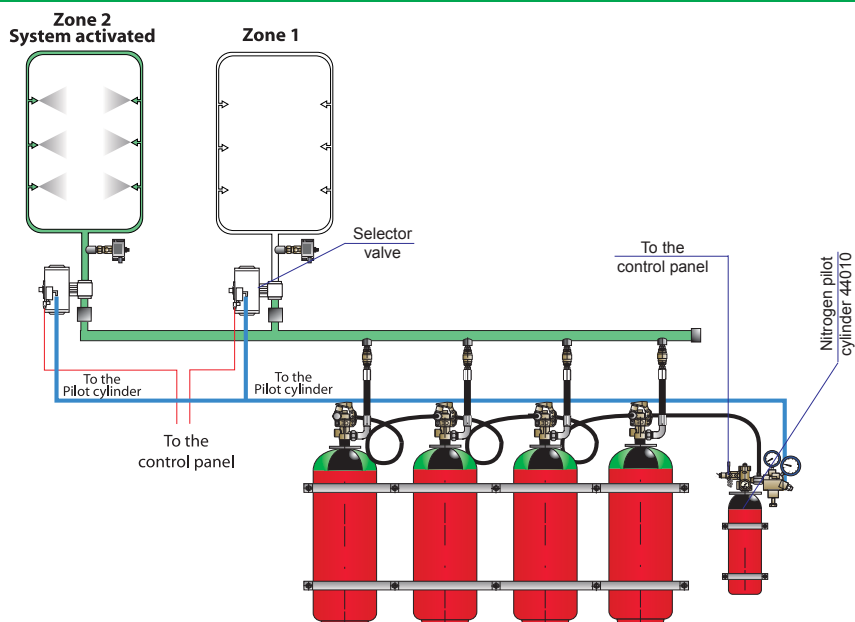
28010 0/60 bar high flow. For powder system
Also used to pressurize halogenated fire extinguishers or modules up to 42 bar.

Typical system with high pressure selector valve

44022 Selector valves

With electropneumatic actuator at 24 Vdc max 8 bar 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.

Code	Diameter
44021	1 1/2"
44022	1 1/4"
44018	2"
44023	2 1/2"
44093	3"
44094	4"
44095	5"
44096	6"



44032 Door Fan Test

It is an essential test according to NFPA and ISO 14520. The fan is fitted in a door and blow air into the room creating a temporary over pressure not less than 25 Pa (P_a =air density) (1,205 at 20 °C e 1,013 bar) (in kg/m³). Then, one hand held computer can detect eventual leakages in the room protected.

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

Includes, handheld computer, instructions, fan, door closure adaptors, strong packing bags.



Spare parts and accessories for LPG valves

6

Pilot multiple actuator

44041 Suitable for LPG valve or other type of valve with connection M30x1,5

Manual activation
Pyroactuator, connection 1/4" m
for pyroactuator code 41133
Pneumatic from 8 to 300 bar.



Connection 1/4" f for pyroactuator or for pneumatic actuator from 8 to 300 bar.

M30 X 1,5

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.



Pneumatic actuator

44027 Pneumatic actuator



1/4" f

1/4" f

M 30 x 1,5

Valve LPG compatible.
Works with only 12 bars.
Allows battery operation of the cylinders. Has two incoming and outgoing connections 1/4" to connect the hoses between the cylinder 44014.

Pilot solenoid valve

43042 Solenoid at 24V cc 1A

Solenoid actuator Valve LPG
Connecting with nut M36x1
Compatible with valves that have the same diameter.



- Timeliness of extinguishing action
- Great effectiveness of extinction
- Activation less than 10 seconds
- ABC powder, or MONNEX.

EN 12416-2

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 filing 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.



Code	Capacity kg	N° Cylinders Lt N2	Valve Outlet
40030	30	1 x 3	1"
40050	50	1 x 7,5	1"
40100	100	1 x 3 + 1 x 14	1"
40250	250	1 x 14 + 1 x 27	3"
40500	500	1 x 27 + 1 x 40	3"
40.....	1000	3 x 40 lt	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



Selector valve

Electropneumatic 24 V DC 1 Ah



Code	Diameter
40016	1"
40010	1 1/2"
40020	2"
40013	2 1/2"
40006	3"



Used when with a single IFP skid protect more than one risk. Activation is controlled by the control panel fire detectors

40014 Discharge nozzle



Brass open nozzle 1/2" , aluminium diffuser horn.
Enable soft drop of powder for max efficiency.

Numbers of nozzle and piping diameters are determined by a computer software calculation.

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.

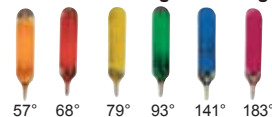
Our tech department can assist in the engineering, computer pipe dimensioning, installation and final test complying with the regulation in force.

This page shows the main, all range available in a separate catalogue

Pendent sprinkler during discharge

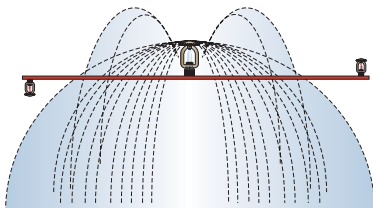


Color of the bulb in degrees centigrade



Conventional

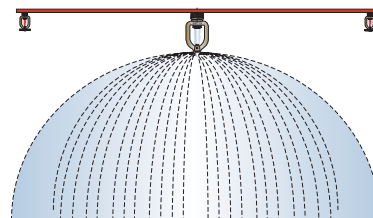
Conventional sprinkler direct the jet also on the bearing structures of the ceiling and assure a good cooling of beams and pillar. The deflector can be mounted on the one or the other side.



Code	Description
45110	1/2" brass export 68°C
45111	1/2" chrome export 68°C
45113	1/2" LPC 68°C
45117	1/2" LPC - FM 68°C

Pendent

The deflector can be mounted only on the bottom side.

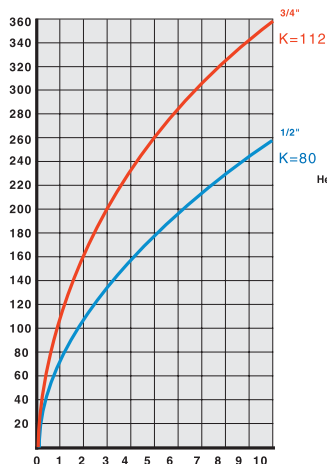


Code	Description
45112	1/2" UL 68°C
45220	3/4" CE 68°C

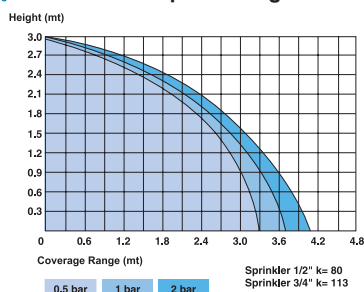
45113 1/2" CE mark

Sprinklers diagram

FLOW DIAGRAM

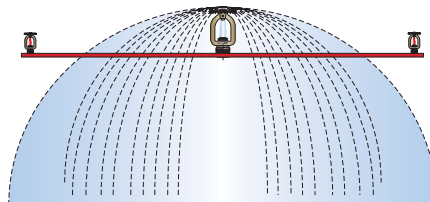


Jet sqm coverage



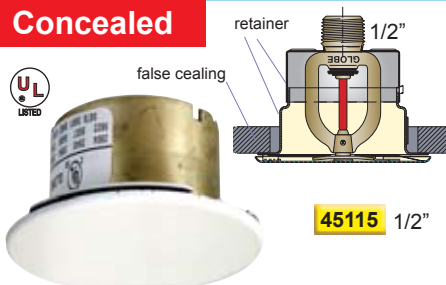
Upright

The deflector can be mounted only on the side up position.



Code	Description
45114	1/2" UL 68°C
45221	3/4" CE 68°C

Concealed



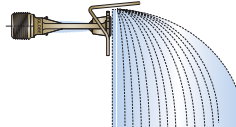
45115 1/2"

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.

Sidewall

45116 1/2" UL 68°C
3/4" UL 68°C

On request different temperature



Sidewall sprinklers. Used near walls or bookcase.

PROTECTOR SPRINKLER



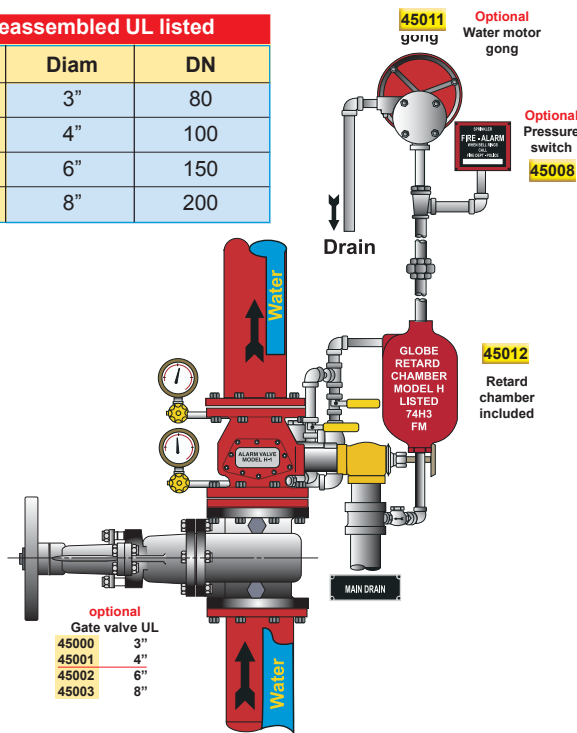
National Fire Protection Association
The authority on fire, electrical, and building safety

SPRINKLER WET VALVE PREASSEMBLED UL listed / CE Mark



Preassembled UL listed

Code	Diam	DN
45061	3"	80
45062	4"	100
45063	6"	150
45064	8"	200



45062 4" Preassembled includes:

Body 45814, trim 45043, retard chamber 45012, preassembled 99998 packing in wood box.

Optional 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 listed

Code	Diam	DN
45832	3"	80
45814	4"	100
45816	6"	150
45818	8"	200

Body valve made in cast iron flanged UL listed.



Body valve made in cast iron flanged UL listed.

Trim wet valve

Code	Description
45043	Universal trim 3" - 8"

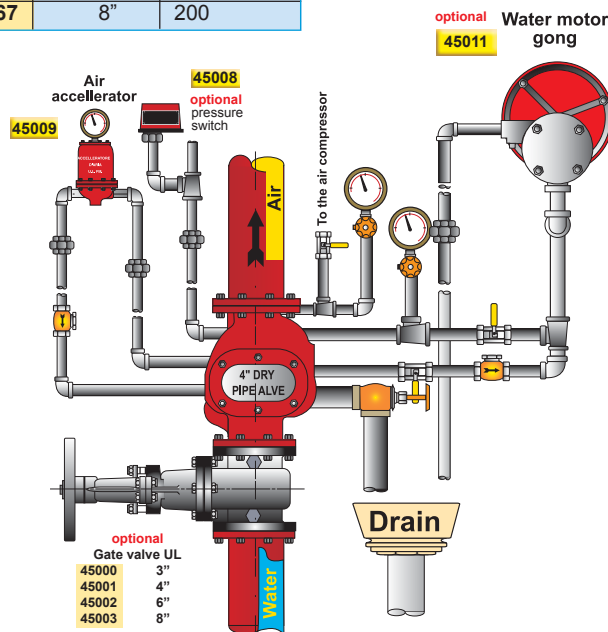
Trim and necessary accessories to complete a body valve: manometers, valves, check valve, pipes, coupling.



SPRINKLER DRY VALVE PREASSEMBLED UL listed CE Mark

Preassembled UL listed

Code	Diam	DN
45065	4"	100
45066	6"	150
45067	8"	200



45065 4" Preassembled includes:

Body valve 45914, trim 45016, air accelerator 45009, trim air accelerator 45010, packing in wood box.

Optional gate valve 45005, pressure switch 45008, 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 UL. FM.

Code	Diam	DN
45914	4"	100
45916	6"	150
optional	8"	200

Body valve made in cast iron flanged UL listed.



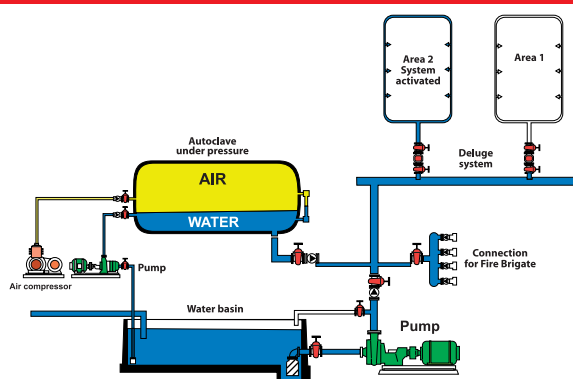
Trim for body valve

Code	Description
45016	Universal trim 4" - 8"
45010	Trim air accelerator UL

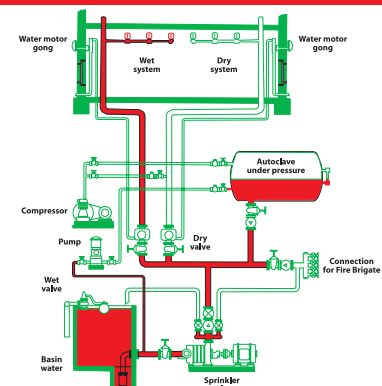


45016 Trim and necessary accessories to complete a body valve: manometers, valves, check valve, pipes, coupling.

Typical Deluge system



Typical Dry and Wet system



SPRINKLER DELUGE VALVES UL listed

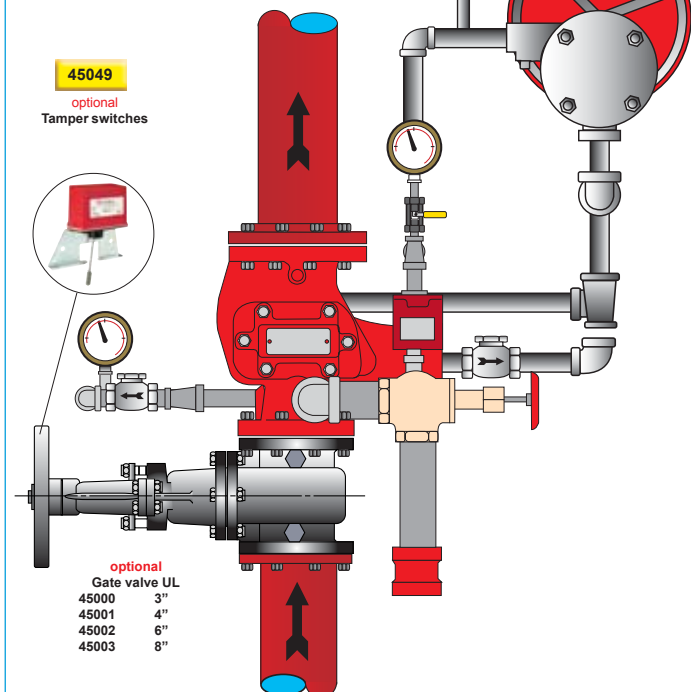


Preassembled UL listed

Code	Diameter	DN
45068	2 1/2"	80
45068	3"	80
45069	4"	100
45070	6"	150
optional	8"	200

"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.



45069 4" Preassembled Deluge valve includes:

Body valve 46104, trim 46000, shipped in packing wood box.

Optional Gate valve 45005, pressure switch 45008, water motor gong 45011, tamper switches 45049

Body valve UL listed

Code	Diam	DN
46003	2 1/2"	70
46125	3"	80
46104	4"	100
46106	6"	150
46107	8"	200



Cast iron body valve flanged UL listed

Trim for body valve

Code	Description
46000	valves 4" 6" 8"
46005	valves 2 1/2 - 3"



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



Code	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



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



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 keep always open. In case of tampering of the valve it marks an alarm to the control panel. Contact Max 10A UL listed

45049



Sprinkler Headguards

45041



The sprinkler headguard are used to protect the bulb if it is at risk of accidental impact.

Escutcheons

45060

adjustable
20 mm



45047 3/4"



Large choice plastic or chrome.

Sprinklers cabinet UL - FM

Code	N° Pcs	Diam
48003	12	1/2"
48004	24	1/2"
48005	12	3/4"
48006	24	3/4"
48007	36	1/2"
48008	36	3/4"

Complete
with
sprinklers

Only empty
cabinet

48002 x 12

48001 x 24



UL. Listed Gate Valve



Code	Diam. DN
45004	3" 80
45005	4" 100
45006	6" 150
45007	8" 200

UL. Butterfly wafer valve



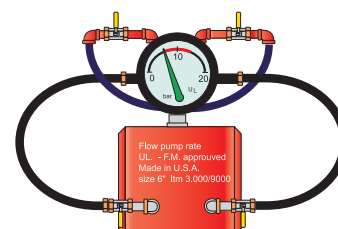
PN10 ASA 150

Code	Diam. DN
45080	3" 80
45081	4" 100
45082	6" 150
45083	8" 200

UL Flow meter

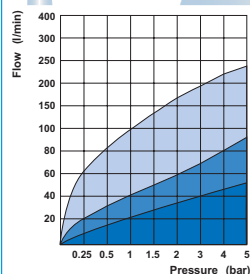
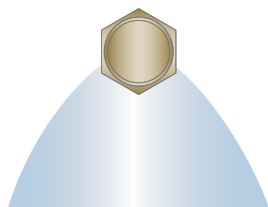
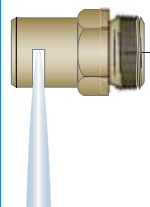
4" DN 100 da 800 a 3.200 Lt/min mod K 450
6" DN 150 da 2.300 a 9.000 Lt/min mod K 1250

45048



Water curtain nozzle

Code	diam "	Ltm 3 bar	Angle
45050	1/2"	40	150°
45051	3/4"	70	150°
45052	1"	235	150°

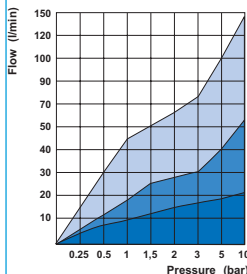
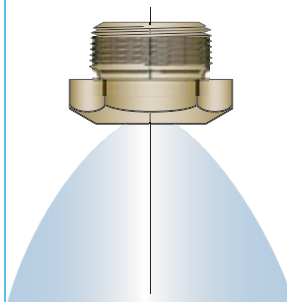


Water curtain nozzle provide a jet at 180° relatively flat. They are generally used to provide a water curtain over a glass window or apertures to prevent fire/heat penetration, and to cool oil tanks, steel columns to give more resistance to the structures.

Spray nozzle

Code	diam "	Ltm 3bar	Angle
45053	1/2"	18	60°
45054	3/4"	30	60°
45055	1"	80	60°

Available with filter and various angles



Spray nozzle are generally used in a deluge systems. They provide a jet of 60° relatively of fine spray drops pattern. Used in industries for multiple purpose and in fire fightings specially to protect transformers, oil containers. The fine drops are not conductive of electricity. Ask the technical data sheet. Available in a different diameters, flow and angle jet.

High Velocity Water Spray Nozzle UL



The minimum pressure
(50 psi).

High Velocity Water Spray Nozzles are internal swirl plate type open nozzles designed for use in fixed water spray or deluge system for the fire protection application.



These nozzles produce solid uniform and dense core of high velocity water spray to effect fire control. Are normally used to cool the surface as well as for extinguishment. Typically used for Deluge protection of special hazards such as oil filled transformers, switch-gear, chemical process equipments, conveyor system and flammable liquid storage areas.

Medium Velocity Water Spray Nozzle UL



Medium velocity water spray nozzle has an external deflector, which discharges water in a directional cone shaped pattern of small droplet size.



The water is uniformly distributed over the surface to be protected.

The nozzle is used in deluge water spray system for special hazard fire protection application.

Water curtain UL



Nozzle distributes water in a flat curtain extending all the way to the ground.



When mounted in pendent position acts as a window spray nozzle to protect interior walls, windows and other opening of the building which are affected by fire.

When mounted in horizontal position with flow towards ground, a flat water curtain is produced to segregate the area which is under fire.

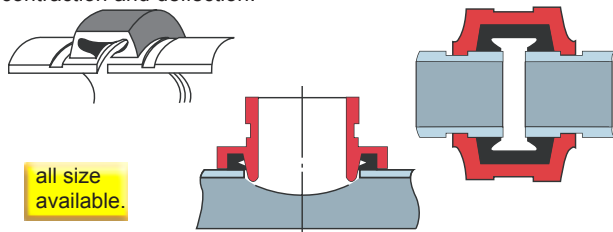
Water Curtain Nozzles are available in Brass and Stainless Steel construction with different flow rate.

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.



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 Rigid coupling



45701 Flexible coupling



45702 Heavy duty rigid coupling



45703 Heavy duty flexible coupling



45704 Grooved mechanical tee



Available from 1 1/4" to 6"

45705 Mechanical cross grooved



45706 Strap tee



45707 Mechanical cross threaded grooved



45708 Reducing tee



45709 Threaded reducing tee



45710 Equal cross



45711 Reducing cross



45712 Flange adaptor



45713 Hinged flanged adaptor



45714 Cap



45715 End-line reducing elbow



45716 Reducing coupling



45719 Threaded mechanical tee



45720 90° elbow



45721 45° elbow



45722 22.5° elbow



45723 Grooved equal tee



45724 Grooved concentric reducer



45725 Threaded grooved reducer



45726 Grooved eccentric reducer



45727 Grooved flanged



45728 Cap with hole



PIPE MACHINERY

Grooving machine type 2-12

This machine is applicable for channeling 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

This machine is applicable for channeling 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

Hole cutting machine

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

Pipe cutting machine

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

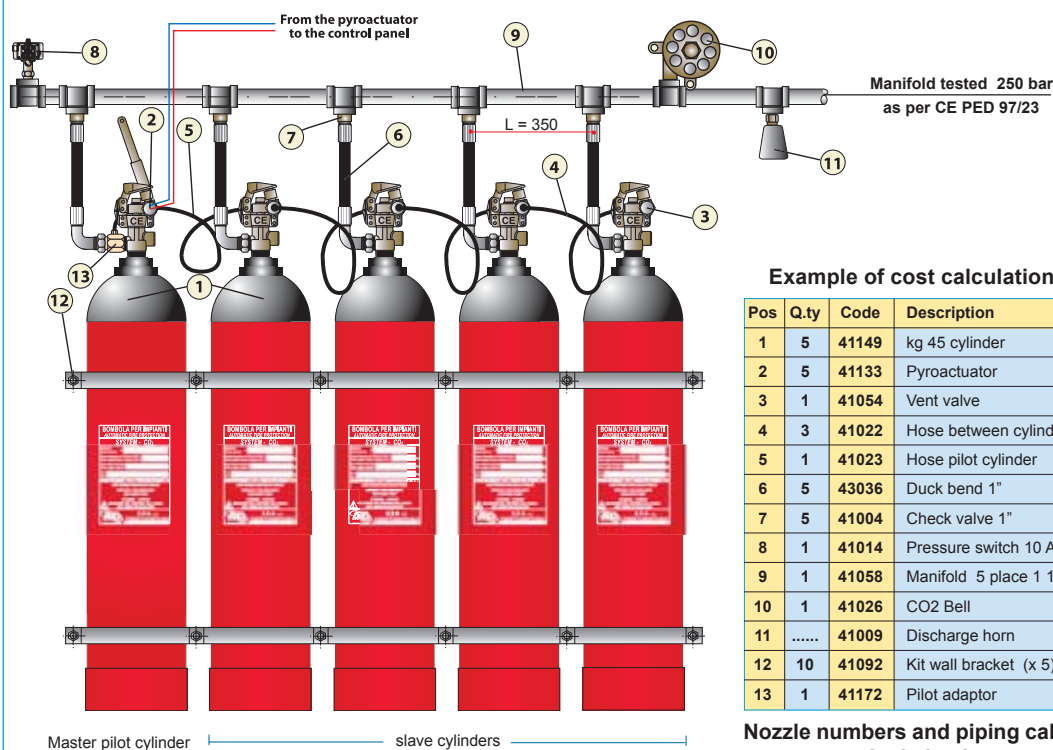
Voltage (V) : 110-460
Power (W) : 550
Frequency (Hz) : 50-60
Net weight (Kg) : 24
Dimension (mm) : 340x340x620

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



Example of cost calculations

Pos	Q.ty	Code	Description
1	5	41149	kg 45 cylinder
2	5	41133	Pyroactuator
3	1	41054	Vent valve
4	3	41022	Hose between cylinders
5	1	41023	Hose pilot cylinder
6	5	43036	Duck bend 1"
7	5	41004	Check valve 1"
8	1	41014	Pressure switch 10 A
9	1	41058	Manifold 5 place 1 1/2"
10	1	41026	CO2 Bell
11	41009	Discharge horn
12	10	41092	Kit wall bracket (x 5)
13	1	41172	Pilot adaptor

Nozzle numbers and piping calculation must be performed with computer calculation by our technical department.

Cylinder, charged with CO2 VT valve and cap

Code	kg	Lt	diam
41148	30	40	227
41149	45	67	273
41171	54	80	273

Protection cap

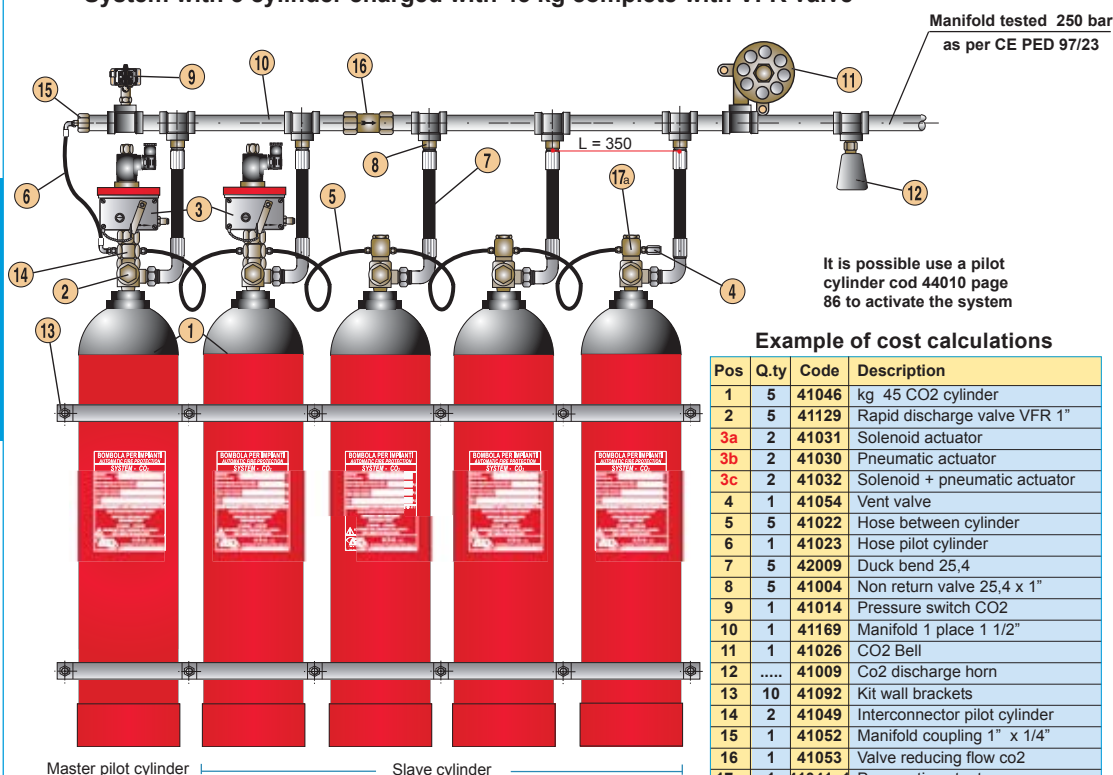


On request
RINA
approved

CO2 system with rapid discharge valve VFR

This system use the traditional valves known as VFR, VFR is a old but consolidated technology. This system may use pneumatic detector that not need electricity for actuation.

System with 5 cylinder charged with 45 kg complete with VFR valve



Example of cost calculations

Pos	Q.ty	Code	Description
1	5	41046	kg 45 CO2 cylinder
2	5	41129	Rapid discharge valve VFR 1"
3a	2	41031	Solenoid actuator
3b	2	41030	Pneumatic actuator
3c	2	41032	Solenoid + pneumatic actuator
4	1	41054	Vent valve
5	5	41022	Hose between cylinder
6	1	41023	Hose pilot cylinder
7	5	42009	Duck bend 25,4
8	5	41004	Non return valve 25,4 x 1"
9	1	41014	Pressure switch CO2
10	1	41169	Manifold 1 place 1 1/2"
11	1	41026	CO2 Bell
12	41009	Co2 discharge horn
13	10	41092	Kit wall brackets
14	2	41049	Interconnector pilot cylinder
15	1	41052	Manifold coupling 1" x 1/4"
16	1	41053	Valve reducing flow co2
17a	1	41041	Pneumatic actuator

Nozzle numbers and piping calculation must be performed with computer calculation by our technical

Cylinder, charged with CO2 VFR valve and cap

Code	kg	Lt	diam
41044	20	27	3/4"
41045	30	40	3/4"
41046	45	67	1"
41143	45	60	1"
41173	54	80	1"

Protection cap



On request
RINA
approved

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.

VT

ADVANTAGES AND DISADVANTAGES

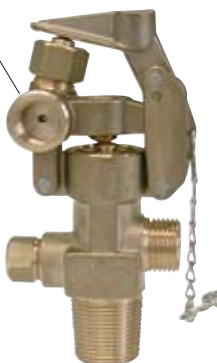
VFR

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.
- 5 W.P 250 bar and 300 bar for inert gases.
- 6 Safety pin prevents accidental discharge during maintenance.
- 7 After activation remain open open, and need manual reset.

41110 3/4" npt

41134 1" npt



Traditional, very popular.

- 1 Refilling is more difficult, it need skilled tech: it need a delicate accuracy of sealing nuts small and large (41064)
- 2 It need a separate pneumatic pressure.
- 3 It need on every recharge to replace the two nuts (41064)
- 4 It need to adjust with extreme accuracy the copper ring 41084
- 5 The pneumatic actuator need a constant pressure during the total time of discharge.
- 6 Can use detectors type 41038 in critical application were is not available electricity or in high risk of explosion.

41128 3/4" npt

41129 1" npt



41031 Master cylinder solenoid actuator



41030 Master cylinder pneumatic actuator

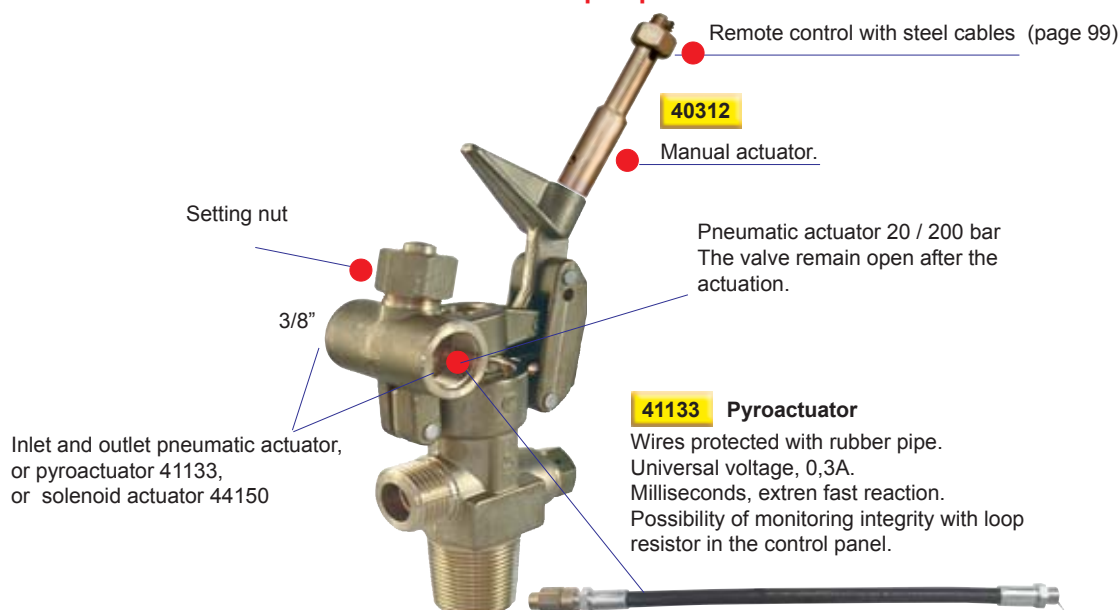


41041 Slave Cylinders Pneumatic actuator



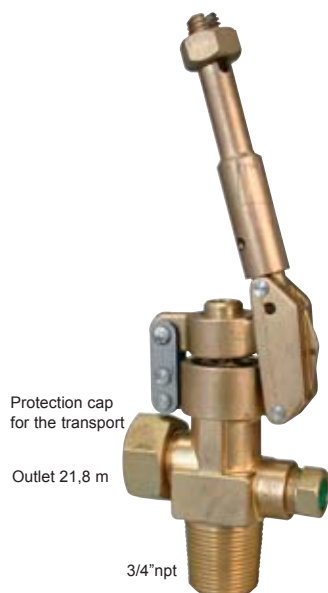
Nut set 2 pcs 41064

Valve in open position.



41109 3/4" npt

This model is without pneumatic actuator. Used with mobile extinguishers or small stationary with manual activation, or by remote pull cable.



44081 3/4" npt for nitrogen 200 bar

Complete with manometer, used for pilot cylinder.



40312

OPTIONAL Manual lever activation

Complete with manometer, used for pilot cylinder.

Rapid discharge valve

Known as rapid discharge valve known as VFR. It is used for equipment installed in CO2 system.

For CO2 gas

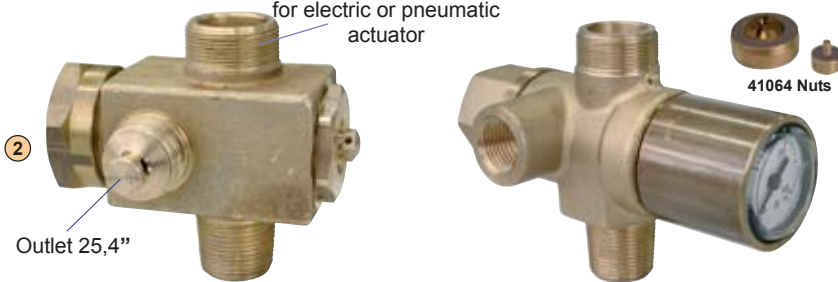
41128 3/4" npt

41129 1" npt

VFR

Connection 1 1/4" UNEF for electric or pneumatic actuator

40004 VFR 3/4"
For nitrogen gas



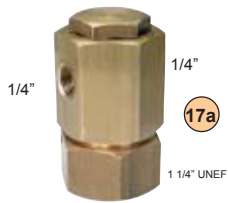
Retarding valve

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.



Manual actuator

41041_1 Pneumatic actuator for slave cylinders



used in slave cylinder VFR valves

41041 Pneumatic and manual actuator



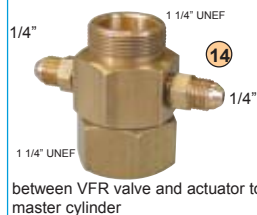
pull up lever to activate manually VFR valves

41167 Electric actuator with manual reset.
41133 Pyroactuator not included



It replace the solenoid 41032 to activate the VFR master pilot cylinder

41049 Interconnector for pilot cylinder



between VFR valve and actuator to master cylinder

Copper rings for VFR precise connection..

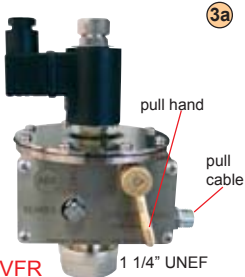


41166 Handwheel actuator for rapid discharge valve



Rotating the upper knob, actuate the VFR valve. Usued for manual systems only.

41031 Solenoid actuator



for VFR

Activated by a remote control panel 24 V.c.c. 1A. On request 220 V.c.a. Active the pilot cylinder.

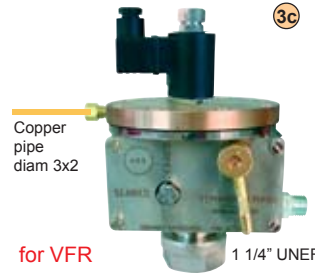
41030 Pneumatic actuator



for VFR

Activated by an air expansion 41038 detector. It does not need an additional electrical energy.

41032 Solenoid/pneumatic actuator



for VFR

Activated by an air 41038 expansion detector or by voltage 24 V.c.c.1 A.

41138 EEx IIB T6 type

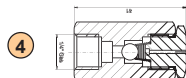
Explosion proof solenoid.



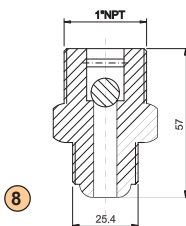
for VFR

Activated by a remote control 24 V.c.c. 1A .

41054 Venting valve

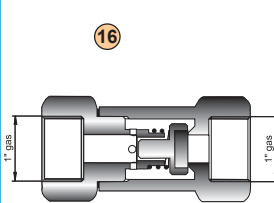


41004 Non return valve for manifold 1" npt x 25,4.

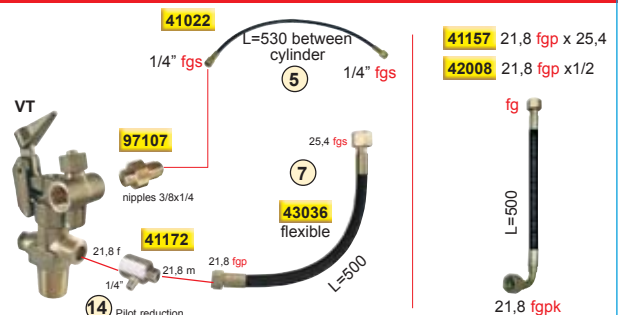


41053 Valve reducing flow 1"

Reduce the flow of master cylinder enabling longer discharge time of the slaves cylinders.

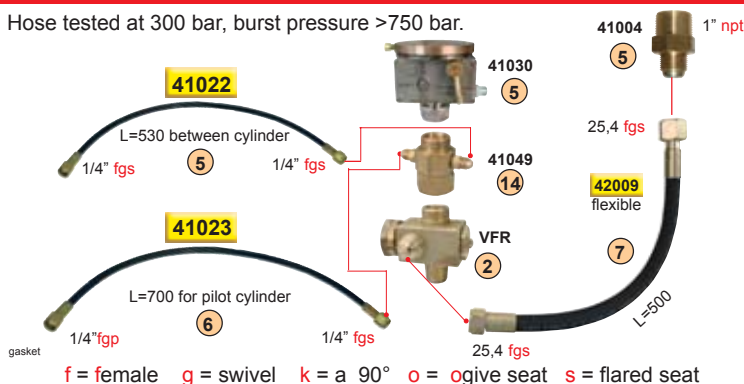


Hose and duck bend for VT valve



Hose and duck bend for CO2 VFR manifold

Hose tested at 300 bar, burst pressure >750 bar.



f=female
g=swivel
m=male
p=flat
o=ogive
k=at 90°
o=ogive
s=flared

41024

1/2" fgs



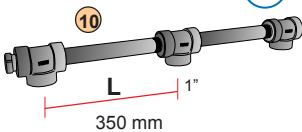
25,4 fgs


41113 25,4 fgsk x 3/4" fg


41025 25,4 fgsk x 25,4 fgs



25,4 fgs

Manifold CO2 preassembled				
Code	diam.	Places n°	max cyl	
41056	1"	3	4	
41057	1"	4	4	
41058	1 1/2"	5	8	
41059	2"	6	12	

H.P Pipe for threaded manifold				
Code	diam.	L=mm	n° max cylinder	
41060	1"	300	4	
41063	1 1/2"	300	8	
41112	2"	300	12	

Tee forged steel coupling			
 <p>Available in ASA 6000 for inert gas manifold at 300 bar</p>	Code	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"	

Pneumatic 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..

A photograph of a pneumatic switch. It has a blue, rectangular, slightly weathered plastic or metal housing. Below the housing is a brass-colored metal body with a threaded section at the bottom for mounting. A small black cap is visible on top of the blue housing.

9

41064

2 Nuts, highly suggested to be replaced before recharging an VFR valve.

Two brass nuts are shown. The larger one on the left has a central hole with a small pin inside. The smaller one on the right has a central pin.

41084

0,5 mm

41186

1 mm



A copper ring is shown, which is a flat, circular disc with a hole in the center.

Copper rings ensure correct tightening to be placed between VFR valve and any actuator.

41220	CO2 Mechanical weighing scale		
<p>CO2 Mechanical weighing scale counterbalance system. The switch send an alarm to control panel if loss weight is more than 10%.</p> 			


41039	Scale for cylinder
<p>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%.</p>	

A mechanical scale for a cylinder, featuring a flat weighing platform supported by four legs. A vertical rod with a red-handled switch and a green electrical box is attached to the front.


41009	Discharge horn 1/4"		
41010	Discharge horn 1/2"		
41009	41010	41010 FL	
			
flanged			

Discharge CO2 horn, made of aluminium, nozzle with hole determined by a computerized calculation.

12


41026	Pneumatic bell
	
<p>3/8"</p>	
<p>The CO2 bell is powered only with the flow of CO2 gas when system is activated. Do not need electrical energy,</p>	
<div><div></div><div>11</div></div>	


41047	Corner pulley
	
<p>It is used to turn the steel wire used with manual remote control. Angle adjustable 45° up to 160°.</p>	

41048	Pneumatic release		
			
When the gas is released it allows pending windows to shut down avoiding exit of the gas in the atmosphere.			

Empty CO2 cylinder					RINA cylinder			
Code	Lt	Kg	Ø	Thread	Code	Lt	Kg	Thread
20146	67	45	273	1"	20109	3	2	3/4"
20147	60	45	229	1"	21210	7,5	5	3/4"
20148	80	54	273	1"	20101	14	10	3/4"
21329	27	20	203	3/4"	21328	27	20	3/4"
21330_1	27	20	232	3/4"	21340	40	30	1"
21341	40	30	227	3/4"				
21342	40	30	203	3/4"				

Nitrogen cylinder				HFC cylinder			
Code	Lt	Ø	Thread	Code	Lt	Ø	Thread
20102	2	110	3/4"	43054	14	170	3/4"
20108	3	110	3/4"	21330_1	27	229	3/4"
20107	7,5	140	3/4"	20216	40	229	1"
20127	27	203	3/4"	43056	60	267	1"
20114	14	170	3/4"	43079	85	356	2"1/2
20140	40	203	3/4"	43078	125	356	2"1/2

Protection cap for valve	
Code	Description
21017	Plastic
41027	For valve big sizes neck ring + cap.
41065	Steel (side blow)
44086	Steel for VT valves (open top)
	

Full CO2 cylinder with handwheel valve			
Code	Lt	Kg	Ø connection
41119	14	10	170 3/4"
41066	27	20	203 3/4"
41067	40	30	227 1"
41118	67	45	273 1"
 <p>Suitable for small system with manual activation or refilling maintenance purpose. With rapid discharge valve see page 93.</p>			

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



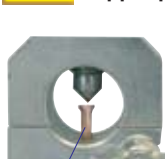
3 inlet for copper pipe thread M6x0.75

41036



4 inlet for copper pipe thread M6x0.75

41040 Copper pipe flaring device



Copper pipe 3x2



Designed to create a correct flaring of the copper pipe 3x2 to join perfectly the adaptors threaded M 6x0,75.

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.



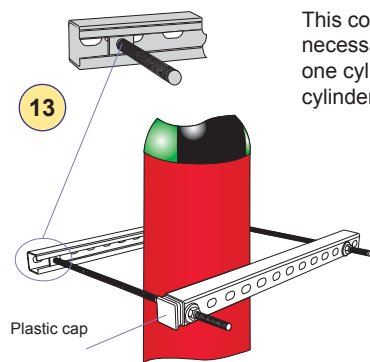
Remote control steel wire 5 mt.

Wall brackets for multiple cylinders

Detail to the wall, sliding nut and threaded rod.

41092

This code 41092 includes all necessities accessories shown to fix one cyl. Specify the number of the cylinders when placing the order.



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 for single cylinder

Code	Cylinder	Diam mm
43003	40 / 60 lt	227
43004	14 lt	170
43005	27 / 40 lt	203
43006	40/60 lt	227
43008	67 lt	273
43007	27/40 lt	203



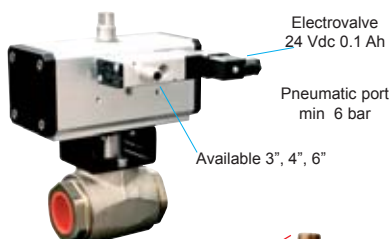
Use to fix a single cylinder on the wall.

For a system with more then 1 cylinder use the kit 41092

CO2 Selector valve

Typical system with selector valve

Code	Diameter
44018	2"
44021	1 1/2"
44022	1 1/4"



Electrovalve 24 Vdc 0.1 Ah

Pneumatic port min 6 bar

Available 3", 4", 6"

Code	Diameter
41073	1"
41074	1 1/2"
41075	2"
41076	2 1/2"

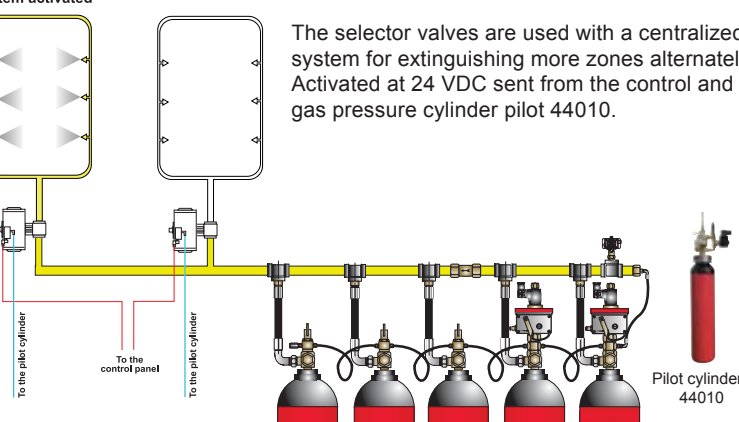
This model has a port and accepts the actuators 41030, 41031, 41032, 41042



Area 2
System activated

Area 1

The selector valves are used with a centralized system for extinguishing more zones alternately. Activated at 24 VDC sent from the control and gas pressure cylinder pilot 44010.



Pilot cylinder 44010

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 boots, oils temper process.....

(Cylinder co2 not included)



On request: cabinet



Gas liquid level indicator

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.



**RINA
APPROVED**



Ultrasonic probe



Control panel



Complete with bags, instruction of use and warranty

Battery charge connector



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

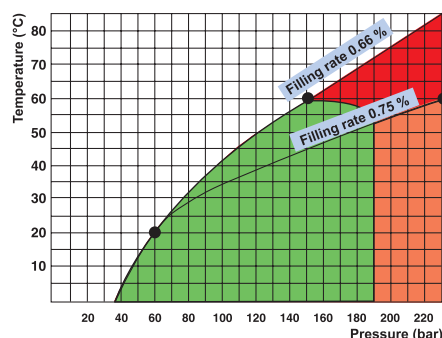
**RINA
APPROVED**



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.

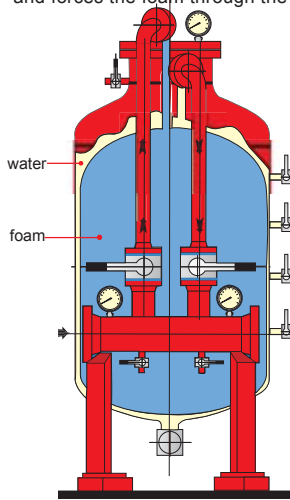
Avoid exposure under direct sun x'rays that risk to pass a temperature of 60°C.

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 require 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	1000	150
83208	600	800	2055	1050	1160
83209	1.000	1000	2165	1250	1715
83210	1.500	1000	2755	1250	2410
83211	2.000	1100	3010	1400	3340
83215	3.000	1270	3310	1500	4740
83216	4.000	1450	3420	1680	6270
83217	5.000	1600	3465	1850	7640
83218	6.000	1750	3580	2025	9000
83219	7.000	1850	3690	2575	10080
83220	8.000	1960	3780	2180	11680
83221	9.000	2100	3750	2350	13400
83222	10.000	2200	3835	2450	14760

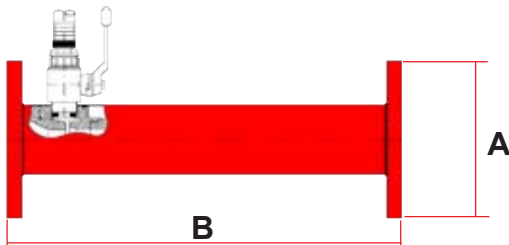
83212 Manual pump for foam charge



Horizontal bladder tank

Code	Capacity lt.	Diameter mm	Width mm	Height mm	Depth mm	Weight Kg
83209_1	1.000	1000	1670	700	1250	1810
83210_1	1.500	1000	2260	1100	1250	2510
83211_1	2.000	1100	2540	1250	1350	3360
83215_1	3.000	1270	2840	1400	1495	4780
83216_1	4.000	1450	2950	1450	1700	6370
83217_1	5.000	1600	3025	1500	1850	7745
83218_1	6.000	1750	3110	1500	2025	9120
83219_1	7.000	1850	3170	1500	2125	10475
83220_1	8.000	1960	3225	1500	2230	11830
83221_1	9.000	2100	3305	1500	2350	13650
83222_1	10.000	2200	3365	1500	2450	15035

Self suction mixer



Body: Carbon steel
Nozzle: Brass / aluminium
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
83200	1000	3 - 6	4 - 12	37	15	80	500
83200_1	2000	3 - 6	4 - 12	33	15	100	500
83200_2	3600	3 - 6	4 - 12	33	25	150	500

High expansion generator

6 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.

Code	DN mm	Foam Ltm	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



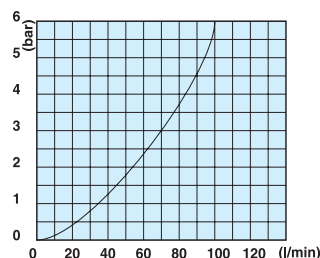
Expansion ratio from 1:600 to 800.
Foam used: Synthetic 97% water and 3% foam
Made in galvanized steel. Optiona Stainless

Foam nozzle



Spray jet
Low expansion 1:8
Body made in bronze
On request in stainless steel.

More information see technical data sheet.



Foam spray nozzle



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.

PRE ENGINEERED 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,
Wall fixed, with 100 Lt foam.
Drum of 200 Lt available.

Stainless steel foam generator.
Can be used also as a portable.



83200 200 Lt/min 550x550x550 mm
83204 400 Lt/min 700x700x700 mm



83201
83205

145
56
115
cm

code	Flow Lt/min	Discharge min'	Foam m3/min'	Data at 8 bar diam
83200	200	30	80	2" only generator
83201*	200	30	80	2" + mixer
83202*	200	30	80	2" + mixer + cylin.+ 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 + cylin.+ 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.

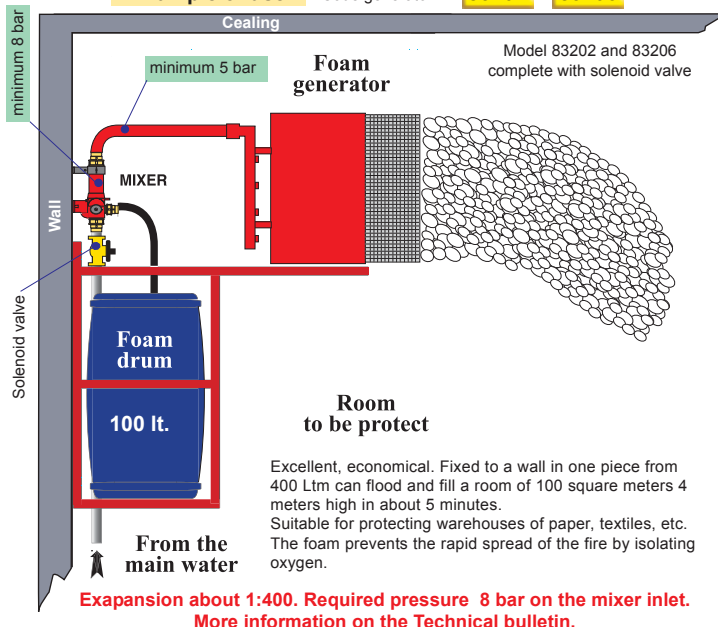
*** Complete with a steel frame to be fixed on the wall and a 100 Lt Foam synthetic drum.**

Example of use

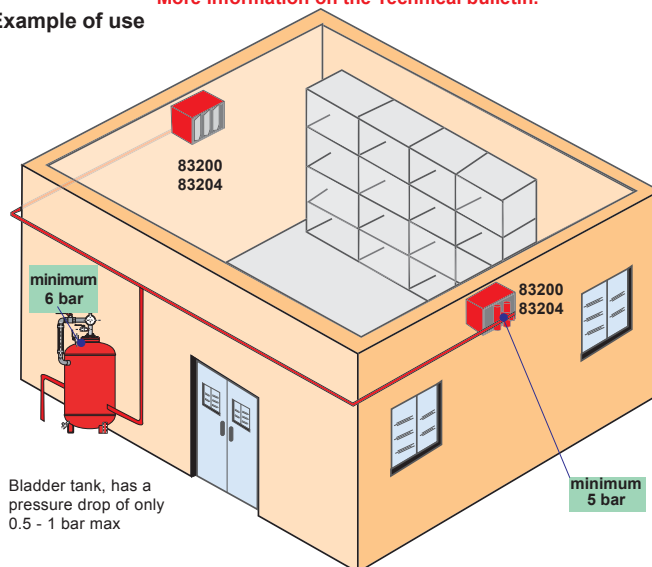
Code generator

83202

83206



Example of use



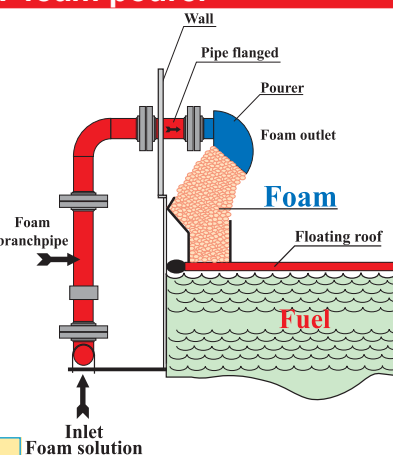
Oil tank foam pourer

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.



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

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

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

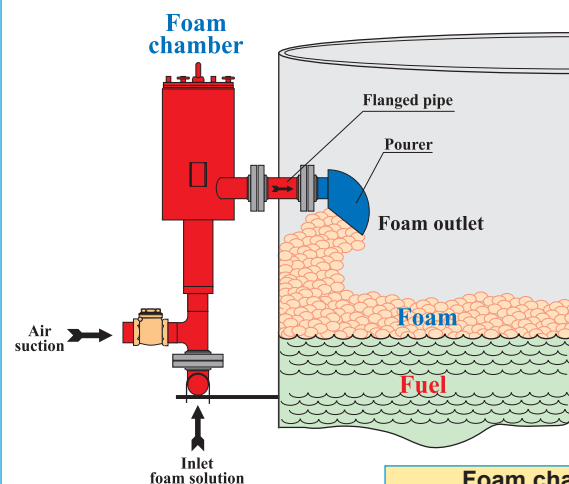
Foam chamber

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

Foam mobile unit

**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.**



Indispensable in sites where are stored great quantities of materials such us wood, paper, fabrics, plastic, rubber, oils.

It is connected with a fire hore 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.

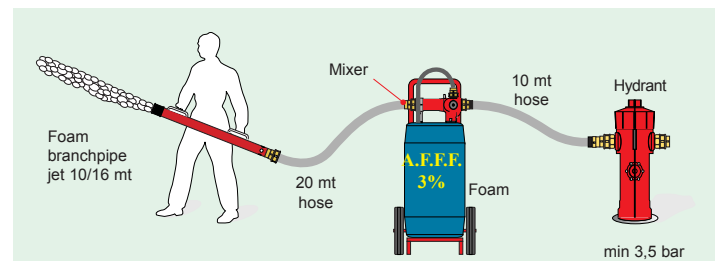
The percentages of the foam compound is 3% or 6% and remaining 97% or 94% is water.

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 minum W.P. 3,5 bar.



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.

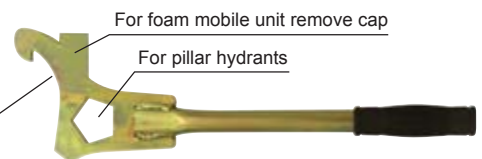
The unit is supplied with:

- 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

For hydrant, coupling and foam mobile unit.



For hose couplings

For foam mobile unit remove cap



For hose couplings



For pillar hydrants



6

Code	UNI	Litres drum	Type foam	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)



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 mixer "Venturi"

The minimum working pressure is 3,5 max 12 bar, best 8 bar
supplied with Storz, or BSS coupling

Code	Dn	Lt' 5bar
81101	1" 1/2	200
81301	2"	400

Suction factory set 3%

Supplied complete with suction pipe 81012

Available on request high flow rate up to 800 lt/min (see page 101)

Made in aluminium.

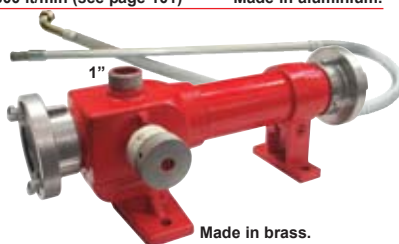


Code	Dn	Lt' 5bar
81201	1" 1/2	200
81401	2"	400

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

Made in brass.



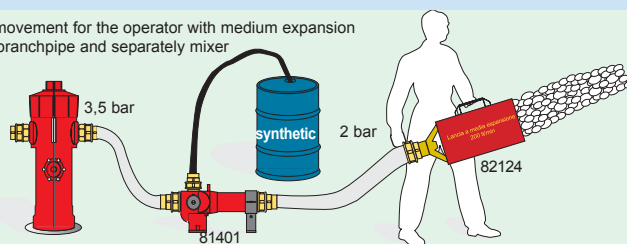
The mixers work on the Venturi principle.

Suitable for use with branchpipe and foam generator at both low and medium and high expansion.

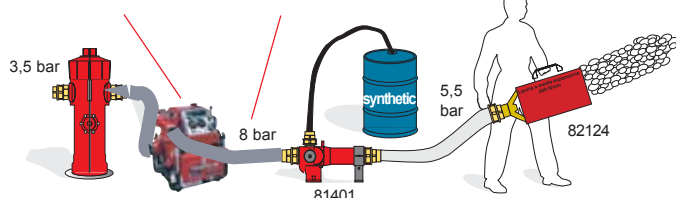
The flow produces suction and mixing effect "Venturi"

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

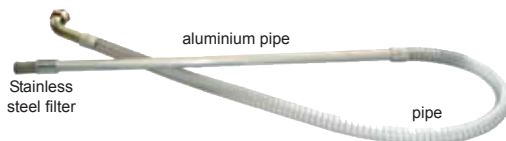


With motorpump cod 98604 - 5 for increasing to optimal pressure at 8 bar



Suction pipe 1,2 mt with stainless steel filter

81012 3/4"F



81013 1"F

Stainless steel filter

aluminium pipe

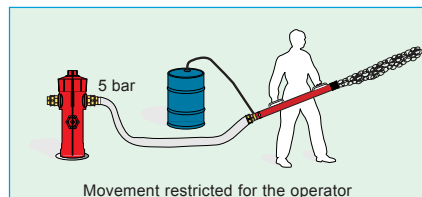
pipe

Foam branchpipe in stainless steel

Low expansion, foam ratio 1:8.



Code	Dn	Lt' 5bar	Jet mt
82112	1" 1/2	200	10 - 16
82114	2"	400	10 - 16

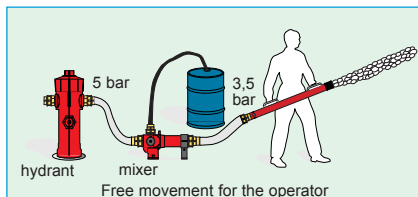


Movement restricted for the operator

Low expansion, foam ratio 1:8.



Code	Dn	Lt' 3,5bar	Jet mt
82212	1" 1/2	200	10 - 16
82214	2"	400	10 - 16



Free movement for the operator

Medium expansion, foam ratio 1:70



Code	Dn	Lt' 3,5bar	Jet mt
82122	1" 1/2	200	5 - 8
82124	2"	400	5 - 8
82222	1"1/2	200	5 - 8
82224	2"	400	5 - 8

Without mixer

With 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.

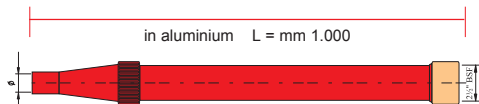
All are individually tested carefully.

The mixer and the foam branchpipe works only if they have the same flow rate.

Adjustable monitor

Monitors are made with two swivel joints that allow continuous 360° horizontal rotation and vertically from -75° to +85°. They are suitable for mounting on vehicles, boats, fixed locations. Can be equipped with water branchpipe, foam branchpipe, or with special spray nozzles. **The branchpipe is not included.** For more information see technical data sheet.

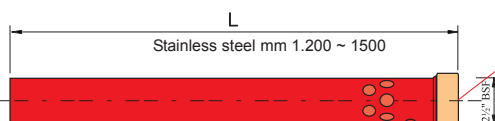
82500 Water branchpipe for monitor 2 1/2" made in aluminium



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

82050 ADJUSTABLE NOZZLE

Full jet or o 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.



On request special version up to 8" remote.

Monitor foam / water

82012 Carbon steel

82034 Stainless steel

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
On request mobile available with 1 inlet DN 70

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

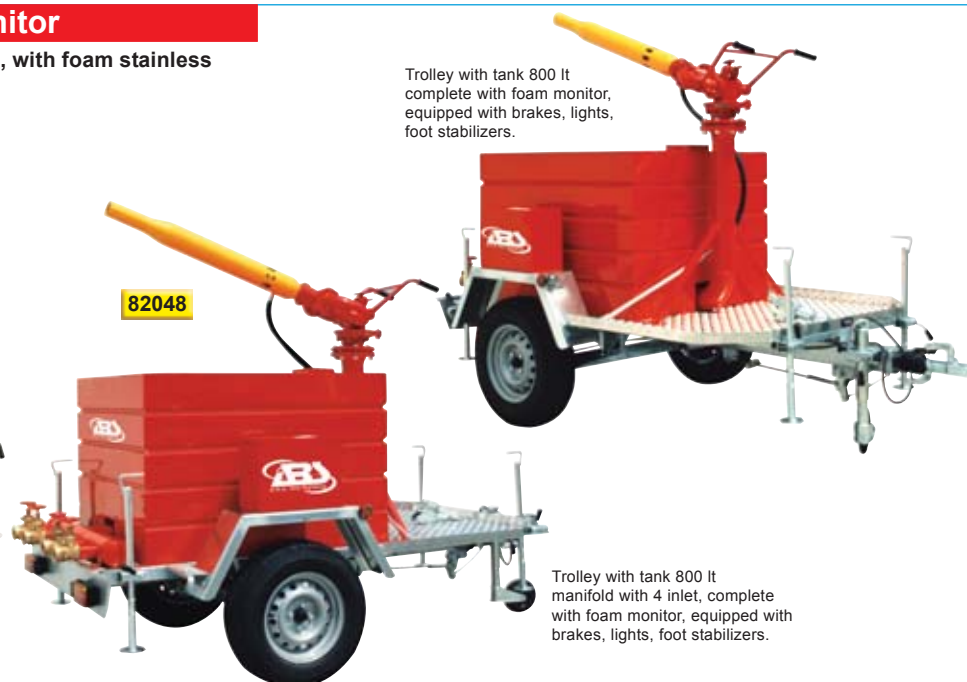


6 Mobile foam monitor

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.

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.
Automatically 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 the hydraulic software calculation.

Motorpump

Variuos versions:
Standard models 800 or 1800 Ltm 8 bar
In and out coupling according to customer request.



Portable motorpumps

Cod.	Ltm	bar	Hp	Kgs
98604	270	5	4	25
98605	400	7,5	5,5	28

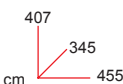
Useful to increase the water pressure in order to be able to supply foam branchpipe or to increase the jet for the water branchpipe. Are self-priming. Honda engine, easy start. Gasoline powered

Rigid suction pipe see page 51

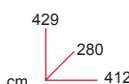
On request other version



98604
DN 45 x DN 45



98605
DN 70 x DN 70



Control panel 1 extinguishing channel 3 detection zone

Three zones. Programmable as cross zone 2 or 3 alarms before discharge.
Usually used 2 cross zone + 1 for manual push button alarm switch.
32 detectors per zone
Key tamper switch
On-off key
Includes a protected manual switch for extinguishing gas release
7 buttons for activation, test, stop alarm and stop discharge
Connections for repeaters
Relais output for remote alarms or stop fans, electricity....
Automatic power supply, recharge batteries
Batteries: 2x12 Volt 7 A.



47039 Certified EN 54-2 EN 54-4 EN12094-1



protected manual
gas release

Ideal to pilot the extinguishing gas systems as EN 12094-1

Elegant, easy programmable, status local display

Microprocessor control panel extinguishing and detection



47010

4 detection zone
2 extinguishing zone with module 47011
Fully programmable.
Versatile and complete.
Accepts smoke, temperature detectors, manual
push button alarm.
Connectors for remote alarms.
2 batteries 12 V 7,2A.
Certified En 54-2

Dimension: 37x27x11

47011 Optional card 2 gas system

4 zones used as cross zone detector,
allow discharge of 2 different bank of
cylinders of FM200 or inert gases.



Certified EN 54-2 EN 54-4

Control panel extinguishing and detection S 300 Certified EN 54-2 EN 54-4



Series 300 is built with easy add in expandable modules.
Professional, realized with very high quality electronics.
Strong durable structure, more than 100 severe test carried
before shipping. Can hold any type of fire detectors.
Basic cabinet manufactured in 4 models, 4, 11, 23, 35
zones painted grey RAL 7032.
Includes local sound alarm, additional key switch for
emergency gas release, all additional switches for remote
alarms, fans, etc..
Can use cross zone for extinguishing gas release; led
signal 220Vca, 24Vcc, failure, short circuit, battery charger,
pre-alarm, fire, switch manual/automatic, led test, stop
alarms, exclusion zone, discharge, low pressure cylinders
Conform EN 50081-1 EN 50082-2 N 453-453/99
Dimension basic model 4 detection: 40x50x25

47015 4 detection + 2 extinguishing

Rechargeable battery

- 47000** 12v 1,9A single
- 47001** 24v 1,9A (2 x 12 volt)
- 47002** 12v 7,2A single
- 47003** 24v 7,2A (2 x 12)



6

Optical smoke detector approved EN 54-7



47012 Optical smoke detector

Optical detector with the same features of
47013 model and improved by temperature
sensor rate-of-rise detector. ASIC internal
circuit, process signal from the two sensor with
independent algorithm and value results.
purposely studied to improve velocity response
and stability system, keeping high immunity
from false alarms.

Certified EN-54.2000 (par 5 and part 7).
Simple installation on standard base unit.
Standard output for remote indicator.

Thermal detector



47013 Thermal detector

Use a circuit with double thermistor for high
performance and reliability, but temperature
sensor rate-of-rise with static element regulated
at 57°C. In this way detector will give a fast
response with sudden and high increase of
temperature.

Certified EN-54.2000 (par 5 and part 7).
Simple installation on standard base unit.
Standard output for remote indicator.

Gas detector



47027 Gas detector

Available with 2 different semiconductor heads:
 - Type TGS 813 for combustibles gas methane, LPG, etc.
 - Type TGS 800 for carbon monoxide (CO)
 Detection calibration: from 50 ppm to 300 ppm.
 Current supply: 12/30 Vcc 45mA

Linear smoke detector



47029 Linear smoke detector

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

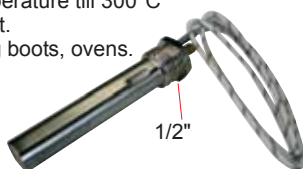
Certified EN54 parte 12

47019 Temperature detector

47038 Temperature detector adjustable

Sensor is housed in a stainless steel tube
 Standard supplied at 68°C.
 Adjustable temperature till 300°C
 on order request.
 Used in painting booths, ovens.

available not adjustable.
 UL Listed 89°C



47020 Temperature detector **adpe**
 Fixed calibration
 from 59°C to 300°C

Like 47019 model, but **explosion proof. ATEX Certified**



Flame detector UV

47030 Flame detector UV

185-260 nm
 24 Vdc 250mA
 Detection angle cone 120°.
 H=70 mm
 Diam 100 mm.



Extending bar to test smoke detector

47037 Extending bar mt 4,50

Extensible fiberglass bar, it sprays a gas simulating smoke and cleaning inside from dust.



47032
 Spray cartridge



This telescopic bar can perform maintenance of smoke detectors.
 Allows you to spray through the spray jet that activates the detector and cleans the dust.
 Available extension bar from 1 mt to reach higher heights.

Thermosensible cable

47033 Thermosensible cable 105°C

47034 Cable U.L./F.M. calibrated at 88°C

47035 Cable F.M. calibrated at 105°C

47036 Cable U.L./F.M. calibrated at 137,8°C

The temperature it melts the insulation and creates a short circuit, giving the alarm to control panel. (Minimum order 50 mt)



Alarm buttons, discharge and inhibition under glass.

47050 Push button box 1contact with plastic cover

47006 Push button break glass alarm. 2 contacts n.o. and n.c. 10 A



Optical acoustic indicator

47040 Red siren for premises evacuation.



Electronic siren for rooms evacuation, color Double tone alarm, optical xeno light signal.
 Current supply: 230 Vac
 Protection grade: IP 44
 Acoustic power: 104 dB(A) at 3 mt.
 Temperature range: -25°C/+55°C
 Battery (not included): 12 Vcc 2,1 Ah
 Dimensions: 265 x 210 x 65 mm
 Weight: 2,1 Kg.

Electric bell

47004 Electric bell

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.



Electric bell 12/24 Vcc

47041 Electronic bell 12/24 Vcc

Electronic siren for rooms evacuation
 4 differents tones.
 Power supply:
 12/24 Vcc.



Solenoid valve for GPL

47018

Used to shut off LPG gas supply
 12 Vcc 1 A. Size 1/2"
 Available: 1" 2" 3" 4"



Local alarm signal device

47007

- Lamps 24 Vcc
 - Buzzer 24 Vcc
 Dim: 31 x 12 x 6 cm



FIRE DOORS REI 120

Certified fire resistance for 2 hours REI 120 . Avalable 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.



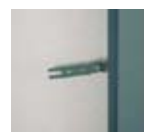
- Versions REI 120
- Reversible doors LX or RX
- Immediate delivery from stock
- Fix with anchors or expansion screws
- Adjustable hinges
- With or without bottom frame
- Preamsembled



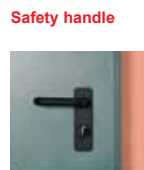
Hing with self-closing spring.



Ball-bearing hinge with screw for the vertical adjustment.



Fast wall fixing with expansion screw.

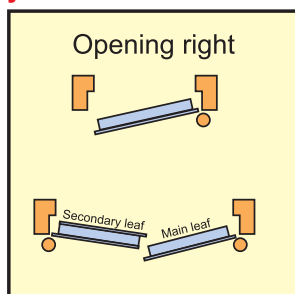
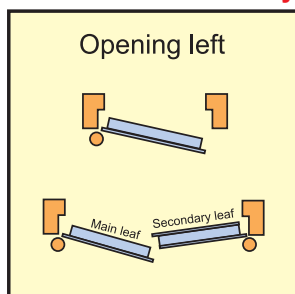


Safety handle



Bottom-part frame, removable.

Immediately delivery from stock



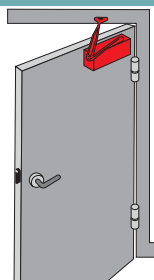
STANDARD DOORS REI 120

approved fire resistant 120 minutes

Code	Wall opening mm		clea 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

Accessories for fire doors

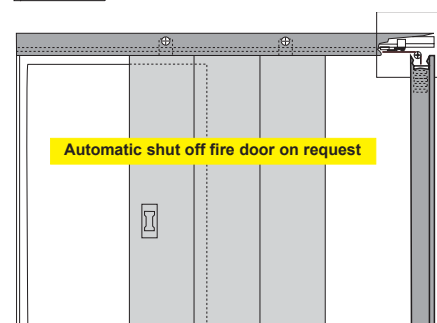
79005 Adjustable antipanic bar reversible DX e SX



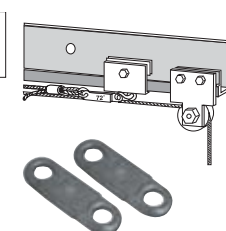
79001 Self closure



79013 Lock complete with handle and cylinder for fire door.



Automatic shut off fire door on request



79004 Fusible at 72°C Approved UL

79007



Dimension: 240x48x150 mm



This control includes all indicators and switch to control electromagnets, and smoke or temperature detectors.

It must be mounted over the door.

In presence of smoke or heat it releases the electromagnet which keeps the door open, and the door will shut off automatically.

Technical Characteristics

Power Supply recharger: 230 Vac. 50/60 Hz
 Battery (not included): 12 Vdc 1,2 Ah
 Smoke detector: Tyndal optical effect
 Heat detector: Alarm temp. 70°C
 Optical alarm: Red blinks on both sides
 Acoustical alarm: Buzzer
 Work temperature: -10 to + 80°C
 Timer to shut door: 0 to 15 sec.
 Controlled magnet max: 4 pcs

Light indicators

Fire alarm
 Power on
 Battery failure
 General failure
 Detectors failure
 Push button failure
 Siren failure
 Magnet power on

47012 Optical smoke detector



Optical detector with the same features of 47013 model and improved by temperature sensor rate-of-rise detector. ASIC internal circuit, process signal from the two sensor with independent algorithm and value results. purposely studied to improve velocity response and stability system, keeping high immunity from false alarms.

Certified EN-54.2000 (par 5 and part 7).
 Simple installation on standard base unit.
 Standard output for remote indicator.

47013 Thermal detector



Use a circuit with double thermistor for high performance and reliability, but temperature sensor rate-of-rise with static element regulated at 57°C. In this way detector will give a fast response with sudden and high increase of temperature.

Certified EN-54.2000 (par 5 and part 7).
 Simple installation on standard base unit.
 Standard output for remote indicator.

47041 Electronic bell 12/24 Vcc

Electronic siren for rooms evacuation
 4 different tones.
 Power supply:
 12/24 Vcc.



47050 Push button box 1contact with plastic cover



Alarm signal and bells for fire doors remote controls



Code	Description
47004	Bell 24 Vcc

24V V - 50/60 Hz - IP 30 - Weight 0.53 kg
 Dimensions Diameter=152 mm



Code	Description
47009	Electronic siren 24 Vcc

220 V - 50/60 Hz - IP 30 - Weight 0.53 kg
 Dimensions H= 87mm-L=94mm - P=94mm

47040 Red siren for premises evacuation.



Electronic siren for rooms evacuation, color
 Double tone alarm, optical xeno light signal.
 Current supply: 230 Vac
 Protection grade: IP 44
 Acoustic power: 104 dB(A) at 3 mt.
 Temperature range: -25°C/+55°C
 Battery (not included): 12 Vcc 2,1 Ah
 Dimensions: 265 x 210 x 65 mm
 Weight: 2,1 Kg.

79003 Electromagnete No release button



The electromagnetic work at 24 Vcc 50mA.
 Coupling force 50 kg. The magnete must be mounted on the wall, while the disk on the door that is always open. The electromagnete release the door in case of fire alarm.
 Dimensions Magnete : mm 90x55x48
 Dimensions Disk : mm 55x55x60

79008 Electromagnete, push button release door floor mounting



79002 Electromagnete push button release door floor mounting



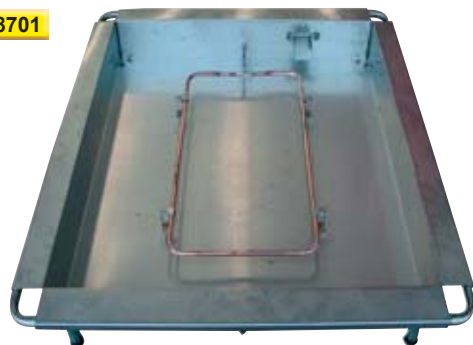
79006 Push button

Break glass and press for emergency door release



Fire testing training pan with GPL LPG

98701



Stainless steel

detail thermoelectric valve

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.

Dimensions: 1160 x 1160 x 250 mm

Weight: 40 Kg

TRAINING AND EDUCATION

Lightweight, portable, ideal for training in customers company. It weighs only 40 kg.

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



98709 Professional fog maker machines 1.000 W

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.

Specifications:

Power supply: 220/240 Vac - 1 Kw

Smoke launch: 12 Mt.

Ignition time: 3/5 minutes

Liquid tank: 2 Lt

Remote control and thermal protection included.

Fog generator liquid (code 98710) not included.

TRAINING AND EDUCATION



dim 27x28x48



98710 Liquid spare charge 5lt for professional FOG-MAKER

Fire suite MED Approved



93180 Naval fireman med - solas approved. Complete with: jacket, trousers, gloves, helmet, boots, bags.

93181 Jacket and trousers in Rayon MED Approved

93183 Safety rubber boots with steel cap MED Approved (Height 38 cm)

93187 Helmet for Naval Fireman MED Approved

93182 Protective gloves MED Approved

Nape detail in the helmet



93101 Complete firesuite approach fire Max temp. 200°C

93101 includes followings sold also separately

93005 Boots

93006 Helmet

93007 Gloves



93101 Full immersion suit with hood overshoes and gloves



Safety equipments cabinets

60025 Red epoxy paint, 3 shelves, lockable 2 doors with EASYBREAK sheets included.



Dim. 1000x1000x400 mm

On request with NOFLAMES sheet and seal.



60042 Red epoxy paint, 3 shelves, lockable with key 1 door with Safecrash sheet included.



Dim. 700x1000x400 mm

60043 as 64002 but stainless steel



60045 Stainless steel 1 shelf complete with EASYBREAK sheet.



STAINLESS STEEL

On request RED epoxy painted

Dim. 500x700x260 mm

60047 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



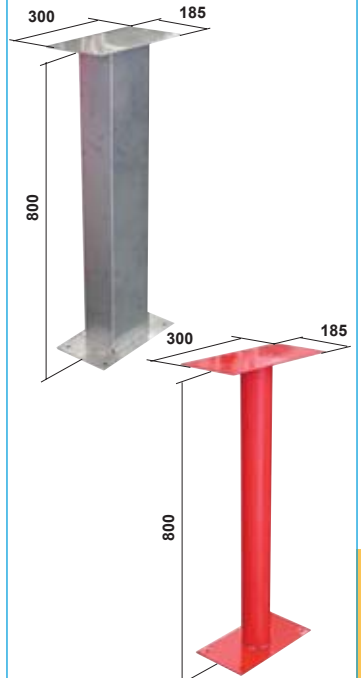
Dim. 900x2000x350 mm

Version with 4 shelves + full side compartment for shovels, hang clothing. Safecrash sheet included.



Foot stand for cabinet

60002 Foot stand cabinet in stainless steel



60005 Steel red epoxy painted RAL 3000

Suitable for:
60042 - 60043 - 60044
60045 - 60047

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

Dimension.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

Dimension.185hx57x50 cm

60077 Fire cabinet 2 doors

Fireproof safe, epoxy coated red RAL3000, rounded edges prevents skin accidents, locker, 2 blind doors, 2 shelves.



Dimension.110hx107x50 cm

60078 Fire cabinet 2 doors with EASYBREAK

Fireproof safe, epoxy coated red RAL3000, rounded edges prevents skin accidents, locker, 2 windows doors, 2 shelves.



Dimension.110hx107x50 cm

60079 Fire cabinet 1door

Fireproof safe, epoxy coated red RAL3000, rounded edges prevents skin accidents, locker, 2 blind doors, 2 shelves.



Dimension.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.



Dimension.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.



Dimension. 60hx42x30 cm

Safety cabinet according to EN 14470-1

60069 1 door

optional
Easyfire

60070 2 doors



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

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.
- **EASYFIRE 3 KG SYSTEM**, SEE PAGES 39 FOR AUTOMATIC EXTINGUISHING.

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 materials in hospital, chemical lab, 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 2 doors + safe locker

60072 1 door + safe locker



Dimension L x H x P (mm)
External about. 1400 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



Individual protection

93099 Fire helmet type Gallet F1S EN 443



93100 Fire helmet EN 443



93039 Safety helmet EN 443 Red/Yellow



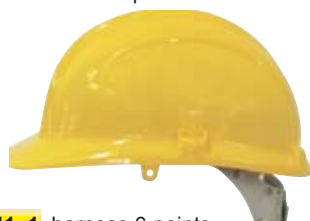
Nape protection included

93040 Nape protection for head cap fireman



Nape protection for safety helmet 93039

93011 Helmet shell polyethylene harness 4 points



93011_1 harness 6 points

93012 Polycarbonate face shield frame for helmet



Mounting kit

93013 Semimask CE EN 140 without filter



93014 Filter for semimask (2 pieces)

93015 Full face mask with panoramic visor.



93016 Multipurpose filter for 93015

93016_1 Multipurpose filter for CO

93094 Nylon rope with 2 hooks



Ø 12 mm mt 20 with 2 hooks

93045 Kevlar rope



Ø 10 mm mt 20

93044 Holster safety belt EN361



93194 Fireman German belt DIN 14927/EN 358



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

Contents:
2 Orange signalling lamps - fringes
4 Batteries for lamps
4 Reflecting cones H.52 cms
2 Fluorescent waistcoats approved EN 471
2 Aluminium antispark pocket lamps at intrinsic security



93042_2 ADR bag kit complete with accessories class 2, compressed gas not flammable

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

Compressed air breathing apparatus

93030 Breathing apparatus SOLAS/MED 6 lt cylinder filled at 300 bar mask included



Proven technology for 200- and 300 bar. Unsize 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 accommodation 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.

60091 Wall cabinet for autobreath Dimension 57.5 x 50 x 105 cm



Cylinder			Air breathing			
Capacity Litres	Pressure Bar	Ø mm	Dimension mm l x h x d	Weight Kgs	Endurance min.	Alarm calibration
6	300	140	310x660x220	15,6	55	55+/-5

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-12V



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



93201 Lamp rechargeable portable anti black-out 230V led



230 V rechargeable lantern
Power full are tight 30 LED's high brightness
Operating time: 30 hours with 6 LED's, 10 hours with 24 LED's integrated power supply cord housing 12 V charger included
Sizes: 160x285x100mm
Batteries: Pb6V 4 Ah

93195 Portable force 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 force 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 candlepower (50 lumens)
Runs up to 5.5 continuous hrs.
21.7cm / 400g
Waterproof/Dustproof IP65
Wrist lanyard connection and a spring-loaded clip



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

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).



Technical Characteristics	
Engine	Single cylinder, two stroke, air cooled
Maximum power	3,6 Kw (5HP)
Fuel	Mixture of leaded or unleaded gasoline and oil for two stroke engine
Electric system	Electronic ignition
Starting	with recoil starter
Air volume	20 m³/min
Air speed	125 m/sec
Liquid maximum range	hor. 17 m, vert. 15 m
Autonomy at max al max speed	70 min
Weight	11,6 kg (SS02 Model)
Peak load's weight	25 kg for women, 30 kg for men (SS02 Model)
Fuel tank capacity	1,9 L
Liquids tank capacity	17 L (13,5 L of maximum filling)
Shoulder straps	In fireproof material, with fast safety release
Standard supplies	Spanners bag for the common maintenance instructions manual
Packing	Carton box cm 75x50x39 Pipes are supplied separately

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).



Technical Characteristics	
Engine	Single cylinder, two stroke, air cooled
Maximum power	3,6 Kw (5 HP)
Fuel	Mixture of leaded or unleaded gasoline and oil for two stroke engine
Electric system	Electronic ignition
Starting	with recoil starter
Air volume	20 m³/min
Weight when empty	9,9 kg.
Fuel tank capacity	1,9 L
Shoulder straps	In fireproof material with fast safety release
Standard supplies	Spanners bag for the common maintenance, extension pipes, air exit spreader and instructions manual
Packing	Carton box cm 51 x 49 x 39

NOTE

Handwriting practice area with 30 horizontal dotted lines.



Navigangen 3
2690 Karlslunde
Tlf 70 26 11 66
Fax 70 27 11 66
www.dkbrandteknik.dk
info@dkbrandteknik.dk
