

Industrial Fire Brigade



Fire Protection Solutions



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OVERVIEW

Since 1977 SA has been a leader in the manufacturing of fire equipment designed to cope with harsh environments and difficult fire hazards. Since then our fire equipment have been selected by many chemical and petrochemical companies in order to protect their men and equipment.

Throughout these years, the Company has been working closely with industrial fire brigades, learning from their experience and listening to their difficulties. The results have been a tailor made design facility, providing each fire brigade with the best fire equipment that suits their specific fire needs. SA manufactures mobile dry-chemical units, foam monitor trolleys, water guns and foam nozzles, in-line mixers, fire hoses and a special line of high performing portable and wheeled fire extinguishers. All fire equipment is designed and manufactured with extreme care with materials highly resistant to chemicals that ensures durability, high performance and reliability every time they are called for duty.

FIRE EXTINGUISHERS

PB100

One of the most appreciated items of fire equipment manufactured by SA is the PB100. A wheeled fire extinguisher designed for the petrochemical industry with extraordinary technical characteristics.

Designed to be easy to maintain, it uses a hot deep galvanized carbon steel frame shaped to perfectly balance the whole extinguisher weight on the axis of the wheels. This makes the PB100 very easy to manoeuvre even by a single operator

carrying a nominal fire extinguishing power of 100 kgs of 88SA ABC-E 97 Powder. The tank is hot-dip galvanized, inside and outside,

with welded head plates manufactured according to ENI specification

for wheeled fire extinguishers to be deployed in petrochemical industries. The extinguisher is propelled with

Nitrogen,

contained in a 27 L bottle charged at 200 bars and equipped with a gas admission-type reducer. The gun is fed by an oil resistant hose, allowing precise dry chemical powder delivery with provisions for balancing backpressure reaction forces. At present the PB 100 is the most used wheeled fire extinguisher within the Italian petrochemical industries.

AC20 E AC30

AC20 and AC30 are wheeled CO₂ fire extinguishers of 18 kg and 27 kg respectively. Installed in a completely dismantable galvanised trolley, they are provided with hard rubber wheels that allow easy climbing over obstacles. The delivery gun is derived from the PB100 giving the operator the possibility to open/close the discharge very easily.



PB 12

One of the most appreciated portable extinguishers within the petrochemical industry is the PB 12. A fire extinguisher with internal CO₂ cartridge, charged with 88SA ABCE 97 powder. Manufactured according to EN 3-7 and ENI/AGIP specifications it is extremely efficient on Class A, B and C fires.

PP6

Portable powder extinguisher conceived for the protection of offices and laboratories that require rapid and efficient intervention. Permanently pressurized, it has a 6 kg charge of dry chemical powder. The valve protection allows preventing unintentional activation due to accidental impacts and safeguards the valve body from consequential trauma. Moreover, the in valve protector turns fluorescent in the dark making it easier to identify the extinguisher during fire emergency.



AC5

Portable carbon dioxide extinguisher, capacity 5 kg, conceived for the protection of offices and laboratories that require rapid and efficient intervention. The valve protection allows preventing unintentional



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activation due to accidental impacts and safeguards the valve body from consequential trauma. Moreover, the valve protector turns fluorescent in the dark making it easier to identify the extinguisher during fire emergency.

PORTABLE LINE MIXERS

LINE MIXERS SERIES ML - PORTABLE

Line mixers are manufactured in Bronze and can be provided with BSP threading or with UNI, BSP, DIN, AFNOR, BSS, NH and GOST quick connections.



Available for flow rates from 200 to 600 L/min at 7 bar they ensure a perfect mixing in a pressure range between 4 and 12 bar.

PORTABLE FOAM BRANCH PIPES

SERIES LSBEP

Low-expansion branchpipes, Series LBE are manufactured in AISI 304 or 316 stainless steel and with UNI or BSP, AFNOR, STORZ, DIN, BSS, NH, GOST brass fittings.



They are provided with plastic a handle for lifting and easy orientation. They are available in the self-suction version LSBE/A that includes the Venturi tube and the control valve.



SERIES LSMEP

The medium-expansion Foam Branchpipes are suitable for firefighting in basins or in confined spaces. They are provided with UNI, BSP, AFNOR, STORZ, DIN, BSS, NH and GOST brass fittings. They are also provided with a plastic handle and are manufactured in AISI 304 or 316 to ensure high resistance against exposure to acid atmosphere.



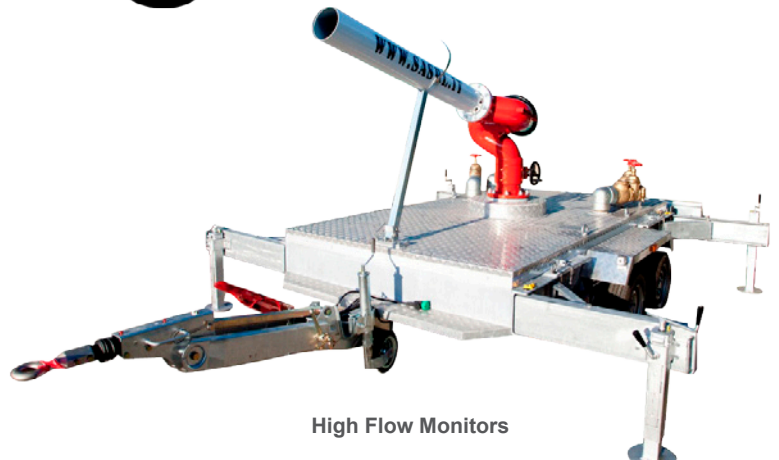
MOBILE FIRE EQUIPMENT

Mobile firefighting equipment has a significant role in high-risk industrial facilities.

They are designed to be pulled rapidly and can carry foam generation stations, monitors or true high-capacity dry-chemical systems.



Monitor Chart



High Flow Monitors



Dry Chemical Unit



Each trolley is provided with a self-supporting frame designed according to the weight and speed with which the equipment is to be pulled. The wheels can be provided with road-type tyres that allow good manoeuvrability also on bumpy sections.

Various versions are available, according to the customer needs, such as:

Portable foam mixing stations

Trolley-mounted monitors

Powder systems

Upon request, the trolleys can be provided with firefighting hoses, foam generation tanks, pumps and mixing systems.

HOSES

The flexible hoses, precious allies of industrial firefighting brigade, are developed to withstand oils and acids attacks, generally present in chemical and petrochemical industries. Flexible hoses have a triple stainless steel binding that makes them safe and practically indestructible. Available in two versions, type B and type C, the former has a synthetic fibre external coating, while the latter has a rubber external coating, that makes it even more durable.



WATER SCREEN

Barrier-type water screens are devices used to create cold paths or water barriers for protecting against fire irradiation. SA manufactures portable water screens in die-cast aluminium designed to create a 180-degree water barrier with variable flow rate. They are often supplied by means of flexible hoses and can be provided with UNI, DIN, AFNOR, BSS, AFNOR, NH and GOST connections.



MAGNUM JET GUNS

Magnum Jet is a particularly efficient atomised-jet gun.

It is designed with an aluminium body that ensures great handling capability and with internal stainless steel parts that ensure great durability and low maintenance.



It is often used with a flexible hose and can be supplied with UNI, BSP, AFNOR, STORZ, DIN, BSS, NH and GOST connections.

STEAM NOZZLES AND FITTINGS

Saturated steam, often present within refineries as a service system, is an optimum extinguishing agent, capable of suffocating the flames, with very high extinguishing performance.

SA manufactures kits equipped with hose reels, hoses and steam nozzles, that can be integrated in the site steam distribution systems creating a steam fire fighting station in the most risky zones.

Although their effectiveness is high, steam systems are dangerous due to the high temperature involved.

For this reason the "Vap" line products developed by SA are conceived to ensure the safety of operators.

Vap fittings are provided with countersunk quick connections and therefore do not require gaskets.

This solution allows easy and fast coupling in case of emergency and above all ensures maximum seal, excluding the risk of gasket failure.

Each fitting is also protected by an anti-release device that prevents the fitting from escaping from the hose, also in case of high pressure.







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