

# Technical Manual



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## GW3P 22031-703L : Portable Fire Extinguisher, 3 L Foam

EXTINGUISHING AGENT SUITABLE FOR LITHIUM BATTERIES



**FLUORINE FREE**



CLIP DETAIL



- **CYLINDER**  
In high-strength alloy steel, with clip, deep drawing, external powder painting Red Ral 3000.
- **EXTINGUISHING AGENT**  
Fluorine free foam, water based.
- **PROPELLANT**  
Nitrogen (N<sub>2</sub>).
- **VALVE**  
M. 30x1.5, brass body, levers with green painting Ral 6018.
- **USE**  
A B F fire rating (solid materials, flammable liquids, cooking oils).

Note: image is for illustrative purpose only, the product purchased can has some difference

3 L foam fire extinguisher, temperature range from +5°C to +60°C, manufactured in accordance to **UNI EN 3-7**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment **PED 2014/68/EU**. Manufactured according to production checks as agreed with **EN 3-10**. Quality Product certification guaranteed by Bureau Veritas Italia. Suitable for use on fire involving electrical voltages up to 1'000 V, at a minimum distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



FIRE RATING :



REPRODUCTION IS PROHIBITED

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- **INSTALLATION** The installation must be carried out in accordance with the provisions in force in the country where the device is used. The commissioning and maintenance activities for maintaining efficiency must be carried out in accordance with the document **PSP\_1-B\_ENG** by qualified
- **USE** technical personnel and in compliance with the regulations in force in the country of use.
- **MAINTENANCE** Any tampering or intervention carried out by unqualified personnel will void the product warranty. It is recommended to place the device in a dry place protected from atmospheric agents.

## TECHNICAL SPECIFICATIONS

FIRE RATING	13 A 55 B 25 F
EXTINGUISHING AGENT	100% Green Wave Premix Lith-M
PROPELLANT	Nitrogen (N <sub>2</sub> ), 15 Bar at 20°C
TEMPERATURE RANGE	+5°C / +60°C
NOMINAL CHARGE	3 Liters
FULL WEIGHT	~ 5,20 Kg
DIMENSIONS	Height 420 (base - valve) +/- 10 mm Diameter (cylinder) 130 +/- 2 mm
DISCHARGE TIME	~ 13,9 seconds
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	3,90 L
SAFETY DEVICE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
TREATMENT	Outside: Sandblast and powder painting, Ral 3000 Inside: Plastic coating

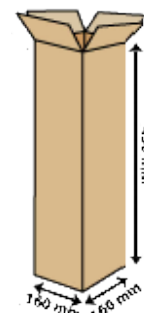
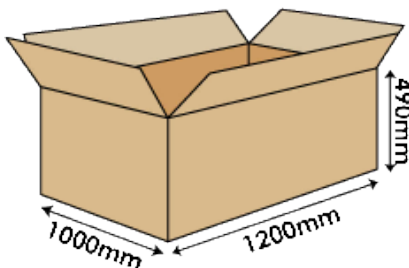
## PACKAGING

(Note: quantities and measurements are indicative and can be subject at changes)

### STANDARD

Maximum nr. 126 pieces for pallet  
(63 pieces for box, max 2 boxes for pallet)  
Pallet dimensions 100x120x115(h) cm

### ON REQUEST: SINGLE PACKAGING



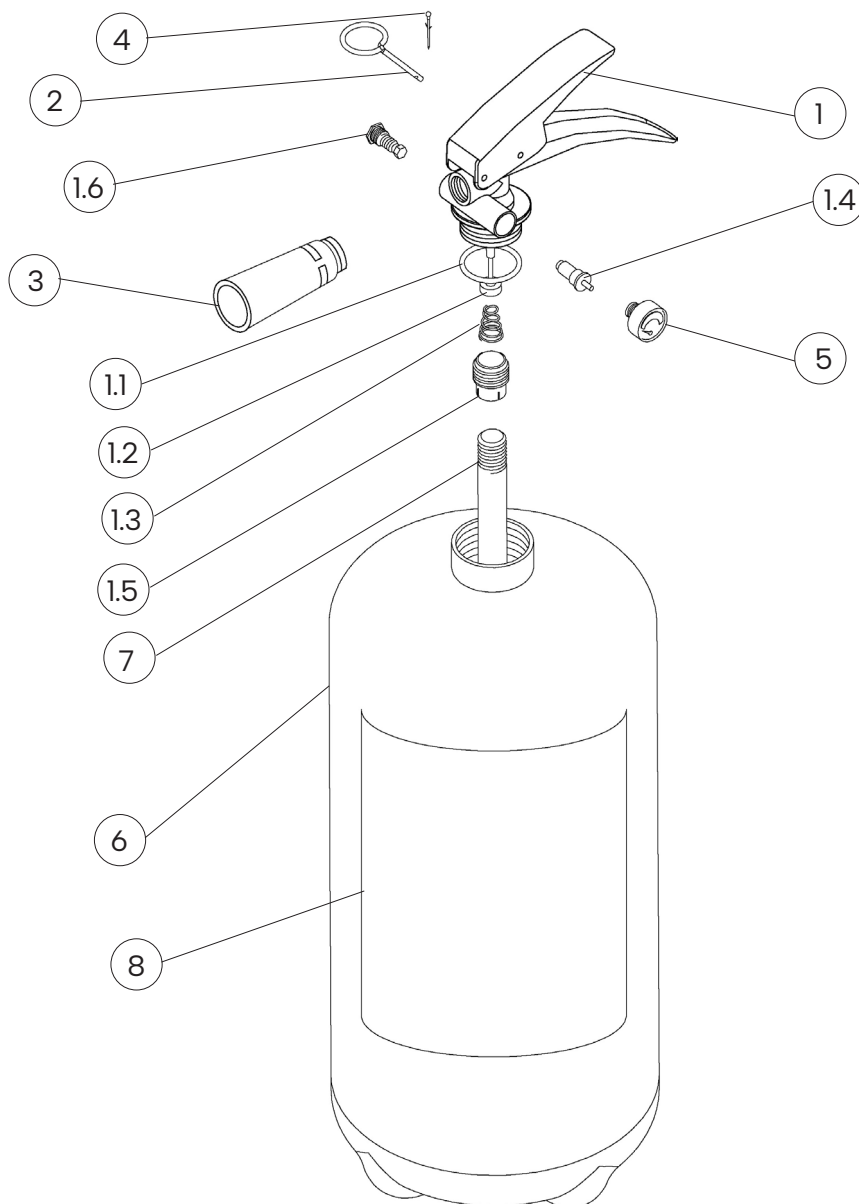
## TRANSPORT DISPOSAL

Land transport : Exemption for the purposes of ADR disposal 594  
Ship Transport : IMDG Code - UN 1044 class 2.2 Fire Extinguishers

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## COMPONENTS AND SPARE PARTS LIST



NUM.	DESCRIPTION	CODE
1	Valve M. 30x1.5	SL0211-3V
1.1	O-ring valve	n.a.
1.2	Valve stem	n.a.
1.3	Internal spring of the valve	n.a.
1.4	Test valve for pressure gauge	1163
1.5	Dip tube holder	n.a.
1.6	Safety device	0261R
2	Safety pin	0282-1
3	Dispensing nozzle	1645-5

NUM.	DESCRIPTION	CODE
4	Safety pin seal	0285
5	Pressure gauge	1576
6	Cylinder	1583-6
7	PVC dip tube with filter	0152-1F
8	Label	1585-703L
OPTIONAL	Wall-mounted bracket for fire extinguisher with clip	3036

The spare part at number 1 includes already all others components indicated from 1.1 to 1.5  
 "n.a." mean that the component is not available as single spare part

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## Prerequisite when using the fire extinguisher on lithium batteries

According to tests executed with this fire extinguisher, it's possible to stop the combustion of a lithium-ion battery with a water based fire extinguisher with foam additives. It has been verified that the use of the fire extinguisher allows to lower the temperature and control any re-ignitions of the cells present inside the battery (generated by the chain reaction of the same and due to their shape inside the battery pack).

The fire extinguisher tested is therefore effective in containing the flames emanated from a battery with same or inferior characteristics compared to the one tested.

*\*NOTE: the test was executed on a new battery and so at full efficiency.*

### SAFETY WARNING



*The combustion of lithium-ion batteries releases very harmful gases and fumes. Direct exposure to high concentrations of gases emanating from the combustion of lithium-ion batteries can cause serious damage to health. Lithium-ion batteries can have unpredictable phenomena during fire, such as explosive reactions caused by the pressure of the cells inside the battery pack. It's advisable to use appropriate safety devices. The use of fire extinguisher is recommended for professional and expert staff. The use of fire extinguisher by uninformed people can lead to lower results and cause damage to involved people.*

### DISCLAIMER

The result of the tests performed refers exclusively to the fire extinguisher model used during the tests themselves. The fast development of lithium-ion batteries and portable fire extinguishers means that the performance achieved during the test phase is not guaranteed when using lithium-ion batteries or shutdown techniques other than those tested. It is not possible to understand where and to what extent these fire extinguishers can be installed due to the outer casing of the lithium-ion battery pack.

The fire extinguishers tested are intended to help contain the principle of fire resulting from the triggering of a lithium-ion battery.

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