



# **EVERSAFE®**

**Your Solution to *FIRE SAFETY***



**NAF S 125®**

(HFC-125 + D-LIMONENE)

**NAF S 227®**

(HFC-227ea + D-LIMONENE)

**UL LISTED**

**TOTAL FLOODING CLEAN AGENT  
FIRE EXTINGUISHING SYSTEMS**

**[www.eversafe.net](http://www.eversafe.net)**

| APPROVED BY



## 1 About Us :



Eversafe Extinguisher Sdn. Bhd. incorporated in year 1979, a member of Leeden National Oxygen Ltd, Singapore. Our production of fire-fighting equipment is housed within 2.844 acres of manufacturing and R&D facilities which allows us to offer an extensive range of high-quality products and systems.

## 2 Vision :

We aim to be the global leader in the production and marketing of firefighting equipment, systems, and solutions, through the use of innovative design.



## 3 Core Values :



## 4 Quality Control :

Manufacturing process and quality management systems have been approved to BS EN ISO 9001 by British Standards Institution.

## 5 Manufacturer/Distributor of :

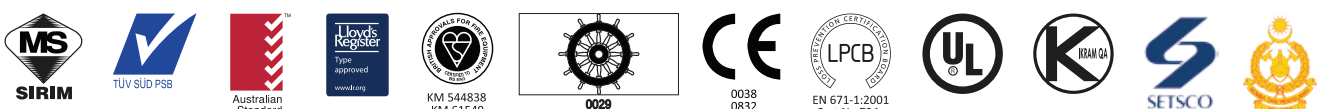
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|--|---|---|
| ■ Portable and Mobile Fire Extinguishers | ■ Nozzle                                    | ■ NAF S 227 Fire Extinguishing System (FM200 Alternative) |
| ■ Fire Hose Reels                        | ■ Smoke Alarm                               | ■ NAF S 125 Fire Extinguishing System                     |
| ■ Landing Valves                         | ■ Fire Blanket                              | ■ NAF S 1230 Fire Extinguishing System                    |
| ■ Breeching Inlets                       | ■ Canvas Hose                               | ■ Inert Gases Fire Extinguishing System                   |
| ■ Hydrant                                | ■ Cabinets                                  | ■ Kerr Fire Foam Compound                                 |
|  | ■ CO <sub>2</sub> Fire Extinguishing System | ■ Wet Chemical Fire Suppression System                    |

## 6 Product Standards / Certification / Directives :

Our products are in compliance with the following product standards / certification bodies:

- |  |  |
|--|--|
| a) American Standard ( <b>UL</b> )                                   | h) Marine Equipment Directive, Wheel mark ( <b>Apragaz</b> )   |
| b) Australian Standard ( <b>SAI Global</b> )                         | i) Offshore Special Requirement - Sarawak Shell Bhd / Sarawak Shell Petroleum Co ( <b>SSB / SSPC</b> ) |
| c) European Standard ( <b>BSI / LPCB</b> )                           | j) Kuwait National Petroleum Co ( <b>KNPC</b> )  |
| d) Malaysian Standard ( <b>SIRIM / IKRAM</b> )                       | k) Kuwait Oil Company ( <b>KOC</b> )   |
| e) Singapore Standard ( <b>TüV SÜD PSB / SETSCO</b> )                |  |
| f) Construction Product Directive, CPD / CPR ( <b>BRE</b> )          |  |
| g) Pressure Equipment Directive, CE mark ( <b>Lloyd's Register</b> ) |  |

### PRODUCT APPROVALS



**EVERSAFE®** NAF S 125® & NAF S 227® Engineered Total Flooding Clean Agent Fire Extinguishing System offers a wide range of cylinder capacity fire extinguishing systems in the market by choosing from four different valve types and cylinders ranging from 5 to 240 litres.

Our seamless cylinders range from 5 to 120 litres, are super-pressurized to 42 bar (600 psi). These 42 bar pressurised cylinder assemblies are the perfect choice for systems with long pipe runs or retrofitting existing Halon 1301 systems.

The working pressure of 26.8, 40.2, 75, 120, 175 and 240 litres welded cylinders is marked at 25 bar (360 psi), providing lower cost option for new systems.

Other advantages of **EVERSAFE®** NAF S 125® & NAF S 227® are :

### Environmental Friendly

Zero ODP

### Electrically Non-Conductive

Suitable For Electronic And Delicate Equipment

### Low Order Of Toxicity

Safe For Human Occupancy

### No Residue

Ease Of Clean-up

### Cost Effective

Compact And Minimal Space Consumption

NAF S 125® Requires 20% Less Agent By Weight Than HFC-227ea Systems

### Class of Fires

Suitable For Class Fires A, B and C

## WHAT D-LIMONENE DOES ?

What edges NAF S 125® & NAF S 227® among other HFCs is the patented additive **D-Limonene**

### Patented Additive D-Limonene

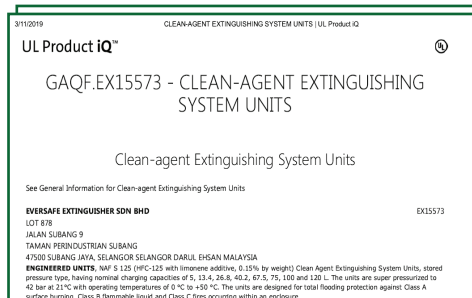
- ✓ D-Limonene reduces the level of decomposition by-products which are harmful to humans and assets
- ✓ Increase the extinguishing performances
- ✓ Citrus odor contributes to early detection on leakage



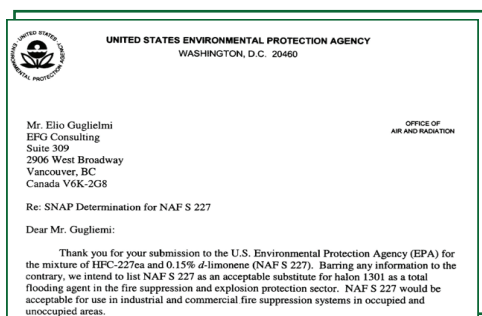
# CERTIFIED SAFETY PASSION

**EVERSAFE**® NAF S 125® & NAF S 227® engineered total flooding systems comply with the requirements specified in the NFPA 2001 Standard for Clean Agent Fire Extinguishing Systems, and UL Listed. The systems are designed with maximum quality and reliability. With the credibility of EVERSAFE NAF S 125® & NAF S 227®, it is definitely a good alternative to FM 200.

UL LISTING



**EVERSAFE**® NAF S 125® (HFC-125 + D-LIMONENE) & NAF S 227® (HFC-227ea + D-LIMONENE) are gaseous extinguishing agents that are approved by Underwriters Laboratory Inc. (UL) as well United States Environmental Protection Agency (EPA) Significant New Alternatives Policy (SNAP) as acceptable substitutes for Halon 1301 and listed in the Classification of Agents as per NFPA 2001 Standard.



US EPA SNAP LIST



HUGHES ASSOCIATES, INC CERTIFICATION

The use of a UL Validated Flow Calculation Program specifically developed by Hughes Associates, Inc. allow system designers to properly design NAF S 125® & NAF S 227® systems and Authority Having Jurisdiction to determine that all design parameters have been met.





# NAF S 125® & NAF S 227®

**EVERSAFE®** NAF S 125® & NAF S 227® engineered systems are tested according to MSC/Circ. 848 and MSC/Circ. 1267 and DNV certified for marine applications such as machinery spaces and cargo pump rooms.



DNV MARINE CERTIFICATION



EVERSAFE Extinguisher SDN. BHD. operates a Quality Management System which complies with the global requirements of BS EN ISO 9001: 2015 and holds ISO 9001 certificates from BSI, United Kingdom.

BSI ISO 9001 CERTIFICATION

EVERSAFE Extinguisher Sdn. Bhd. is UL approved Alternative Manufacturing Location (AML) to design, assemble, fill, refill, maintain and service a wide range of gas based fire protection systems with an available stock of GAS and Hardware.



BOMBA APPROVAL CERTIFICATE



**EVERSAFE®** EVERSAFE NAF S 125® & NAF S 227® are approved by BOMBA Malaysia for land applications in Malaysia Market, as well granted Sijil Guna Pakai (SGP) by Tenaga Nasional Berhad (TNB).

SIJIL GUNA PAKAI (SGP) TNB CERTIFICATION

## COMPARISON BETWEEN NAF S 125® & NAF S 227® AND OTHER CLEAN AGENTS

	HALOCARBONS (HFC)	INERT GAS	PERFLUOROKETONES
Gaseous Agent	✓	✓	
Low Chemical Reactivity	✓	✓	
Electrical Non-Conducting	✓	✓	✓
High Weight Efficiency	✓	✓	
Low Number of Cylinders	✓		✓
Low Enclosure Pressure	✓		✓
Zero ODP	✓	✓	✓
Zero GWP		✓	
Non-VOC	✓	✓	
Discharge Time (sec)	10	60	10

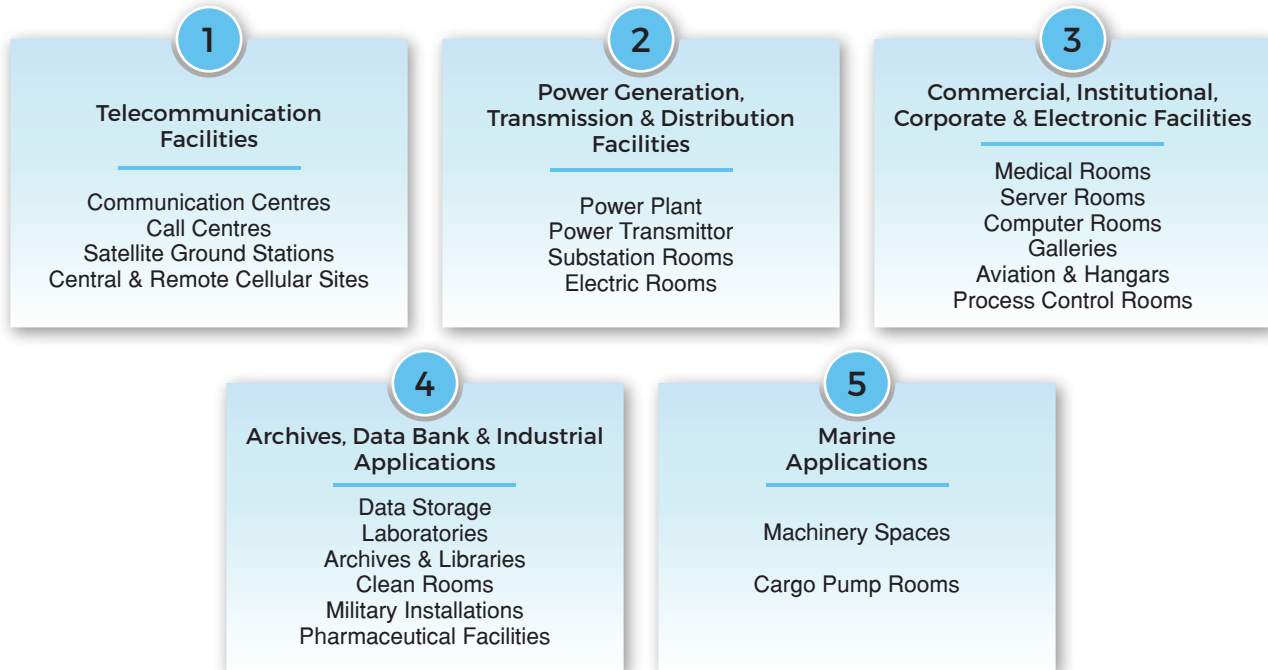
## THE AGENTS PHYSICAL PROPERTIES

**EVERSAFE®** NAF S 125® & NAF S 227® agents are colorless liquefied gaseous. Physical properties of the agents are very similar to those of Halon 1301, making them an ideal total flooding agent. When the gaseous are released to atmosphere their boiling point and vapor pressure cause the agents to vaporize creating an homogenous agent / air mix throughout the enclosure.

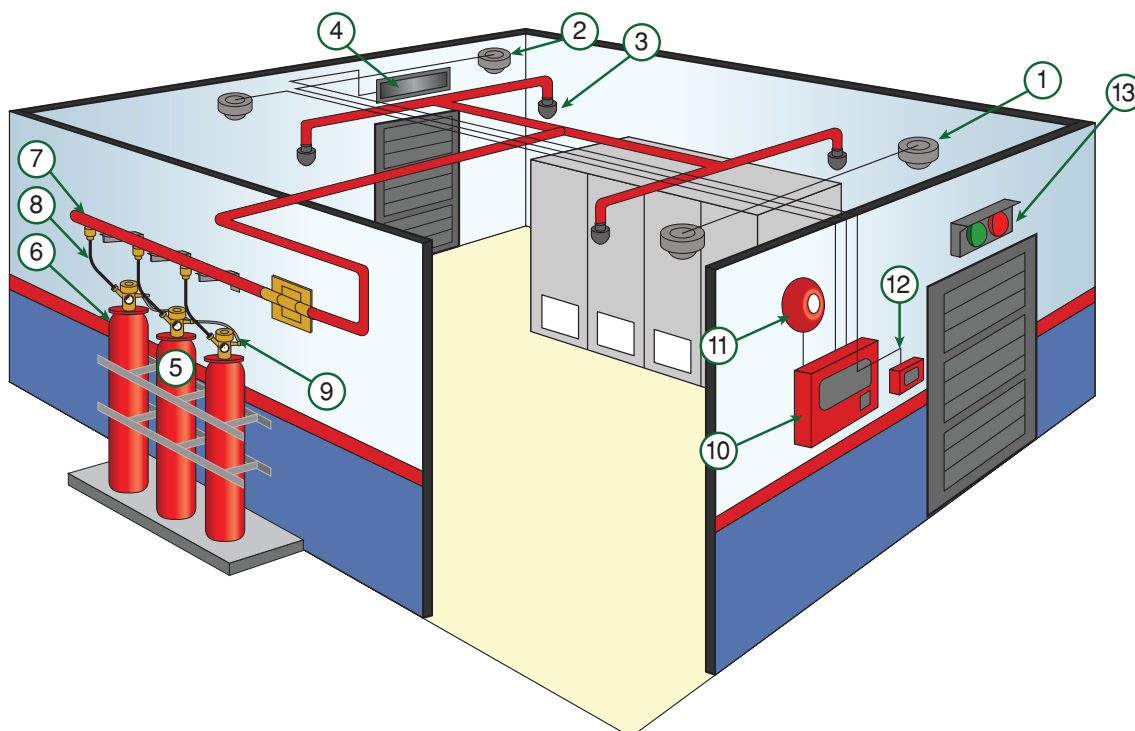
PHYSICAL PROPERTIES	NAF S 125®	NAF S 227®
Composition	HFC-125 (99.85%) + D-Limonene (0.15%)	HFC-227ea (99.85%) + D-Limonene (0.15%)
Molecular Weight	120.02	170.03
Boiling Point @ 760 mm Hg	-48.5°C	-16.4°C
Critical Temperature	66°C	101.7°C
Critical Pressure	3.395 kpa	2912 kpa
Critical Density	571 kg/m <sup>3</sup>	621 kg/m <sup>3</sup>
Vapour Pressure @ 20°C	13.5 bar	4.57 bar
Freezing Point	-102.8°C	-131.1°C
Viscosity of Liquid @ 25°C	0.154 cP	0.184 cP
Solubility of Water in Agent @ 21°C by weight	0.07 %	0.06 %
Specific Heat of Liquid @ 25°C	1.260 kJ/kg°C	1.184 kJ/kg°C
Heat of Vapourization @ Boiling Point (25°C)	164.7 kJ/kg	132.6 kJ/kg
Ozone Depletion Potential	0	0
Global Warming Potential	3500	3220
Atmospheric Lifetime	29 years	33 years

# THE NAF S 125® & NAF S 227® SYSTEM APPLICATION

**EVERSAFE®** NAF S 125® & NAF S 227® Fire Extinguishing Systems are designed with the ability to suppress fire in the shortest time possible, especially in enclosed areas occupied by human. Its clean and zero residue properties makes it the perfect solution to protect areas such as:



## GENERAL INSTALLATION OF NAF S 125® & NAF S 227®



### General Installation

- 1 Heat Detector
- 2 Smoke Detector
- 3 Discharge Nozzle
- 4 LED Evacuate Sign
- 5 Slave Cylinder
- 6 Master Cylinder
- 7 Manifold
- 8 Discharge Hose
- 9 Actuation Hose
- 10 Fire Control Panel
- 11 Alarm Bell
- 12 Abort Switch/Manual Call Point
- 13 Twin Flashing Light

\*Refer to system components for details and informations



## Seamless Steel Cylinder Valve Assembly 42 Bar Systems

Part No. NAF S 125	SH70025410	SH70025409	SH70025408
Part No. NAF S 227	SH70027410	SH70027409	SH70027408
Nominal Cylinder Capacity	5 litre	13.4 litre	26.8 litre
Discharge Valve Type	SHT V20		
Thread Valve	1" - 11.5 NPT		
Working Pressure	42 bar		
Working Temperature	-20°C to 50°C		
Overall Height	615 mm	1250 mm	1000 mm
External Diameter	140 mm	140 mm	229 mm
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating		
Approvals	2010/35/EU TPED, ADR, UL Listed		



## Seamless Steel Cylinder Valve Assembly 42 Bar Systems

Part No. NAF S 125	SH70025407	SH70025412
Part No. NAF S 227	SH70027407	SH70027412
Nominal Cylinder Capacity	40.2 litre	67.5 litre
Discharge Valve Type	SHT V25	
Thread Valve	G.1 ½"	
Working Pressure	42 bar	
Working Temperature	-20°C to 50°C	
Overall Height	1370 mm	1625 mm
External Diameter	229 mm	267 mm
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating	
Approvals	2010/35/EU TPED, ADR, UL Listed	



## Seamless Steel Cylinder Valve Assembly 42 Bar Systems

Part No. NAF S 125	SH70025405	SH70025403
Part No. NAF S 227	SH70027405	SH70027403
Nominal Cylinder Capacity	75 litre	120 litre
Discharge Valve Type	SHT V40	
Thread Valve	2 ½" - 12UN - 2B	
Working Pressure	42 bar	
Working Temperature	-20°C to 50°C	
Overall Height	1785 mm	1680 mm
External Diameter	267 mm	358 mm
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating	
Approvals	2010/35/EU TPED, ADR, UL Listed	



## Welded Cylinder Valve Assembly 25 Bar Systems

Part No. NAF S 125	SH70025414	SH70025415
Part No. NAF S 227	SH70027414	SH70027415
Nominal Cylinder Capacity	175 litre	240 litre
Discharge Valve Type	SHT V65	
Thread Valve	3 ½" - 12UN - 2A	
Working Pressure	25 bar	
Working Temperature	-20°C to 50°C	
Overall Height	1540 mm	1945 mm
External Diameter	445 mm	445 mm
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating	
Approvals	2010/35/EU TPED, ADR, UL Listed	





## Welded Cylinder Valve Assembly 25 Bar Systems

Part No. NAF S 125	SH72525408
Part No. NAF S 227	SH72527408
Nominal Cylinder Capacity	26.8 litre
Discharge Valve Type	SHT V25
Thread Valve	G ½" A
Working Pressure	25 bar
Working Temperature	-20°C to 50°C
Overall Height	750 mm
External Diameter	350 mm
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating
Approvals	2010/35/EU TPED, ADR, UL Listed



## Welded Cylinder Valve Assembly 25 Bar Systems

Part No. NAF S 125	SH72525407
Part No. NAF S 227	SH72527407
Nominal Cylinder Capacity	40.2 litre
Discharge Valve Type	SHT V40
Thread Valve	2 ½" - 12UN - 2A
Working Pressure	25 bar
Working Temperature	-20°C to 50°C
Overall Height	850 mm
External Diameter	350 mm
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating
Approvals	2010/35/EU TPED, ADR, UL Listed



## Welded Cylinder Valve Assembly 25 Bar Systems

Part No. NAF S 125	SH72525405
Part No. NAF S 227	SH72527405
Nominal Cylinder Capacity	75 litre
Discharge Valve Type	SHT V65
Thread Valve	3 ½" - 12UN - 2A
Working Pressure	25 bar
Working Temperature	-20°C to 50°C
Overall Height	1230 mm
External Diameter	350 mm
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating
Approvals	2010/35/EU TPED, ADR, UL Listed



## Welded Cylinder Valve Assembly 25 Bar Systems

Part No. NAF S 125	SH72525403
Part No. NAF S 227	SH72527403
Nominal Cylinder Capacity	120 litre
Discharge Valve Type	SHT V65
Thread Valve	3 ½" - 12UN - 2A
Working Pressure	25 bar
Working Temperature	-20°C to 50°C
Overall Height	1750 mm
External Diameter	350 mm
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating
Approvals	2010/35/EU TPED, ADR, UL Listed

### Discharge Valve SHT V20



Part No. NAF S 125	SH20025128
Part No. NAF S 227	SH20025129
Admissible Cylinder Capacities	5 litre, 13.5 litre, 26.8 litre
Valve Thread	1" - 11.5 NPT
Test Pressure	250 bar
Working Pressure	42 bar
Safety Disc Pressure	95 ± 7 bar
Body Material	Brass
Approvals	2014/68/EU PED, UL Listed

### Discharge Valve SHT V25/B & SHT V25



Part No. NAF S 125	SH22525145	SH20025145
Part No. NAF S 227	SH22525146	SH20025146
Admissible Cylinder Capacities	26.8 litre	40.2 litre, 67.5 litre
Valve Thread	G. 1½"	
Test Pressure	250 bar	
Working Pressure	25 bar	42 bar
Safety Disc Pressure	60 ± 3 bar	95 ± 7 bar
Body Material	Brass	
Approvals	2014/68/EU PED, UL Listed	



### Discharge Valve SHT V40/B & SHT V40

Part No. NAF S 125	SH22525190	SH20025190
Part No. NAF S 227	SH22525191	SH20025191
Admissible Cylinder Capacities	40.2 litre	75 litre, 100 litre, 120 litre
Valve Thread	2 ½" - 12UN	
Test Pressure	250 bar	
Working Pressure	25 bar	42 bar
Safety Disc Pressure	60 ± 3 bar	95 ± 7 bar
Body Material	Brass	
Approvals	2014/68/EU PED, UL Listed	



### Discharge Valve SHT V65

Part No. NAF S 125	SH20025001
Part No. NAF S 227	SH20025027
Admissible Cylinder Capacities	75 litre, 120 litre, 175 litre, 240 litre
Valve Thread	3 ½" - 12UN - 2A
Test Pressure	150 bar
Working Pressure	25 bar
Safety Disc Pressure	60 ± 3 bar
Body Material	Brass
Approvals	2014/68/EU PED, UL Listed



## Manual Release

Part No.	SH31009401
Connection	M 30 x 1.5
Material	Brass
Approvals	UL Listed



## Manual Pneumatic Release

Part No.	SH31009402
Connection	M 30 x 1.5
Pneumatic Connection	G 1/8"
Material	Brass
Approvals	UL Listed



## Solenoid Valve

Part No.	SH21006403
Tension	24 V DC
Protection	IP-65
Current	530 mA
Temperature Limit	Class 105
Max. Working Pressure	170 bar
Valve Body Material	Brass
Approvals	UL Listed



## Solenoid Valve with Pneumatic Outlet

Part No.	SH21006404
Tension	24 V DC
Protection	IP-65
Current	530 mA
Temperature Limit	Class 105
Max. Working Pressure	170 bar
Valve Body Material	Stainless Steel AISI-303
Approvals	UL Listed



## Nitrogen Pilot Cylinder Assembly

Part No.	SH70025411
Capacity	3 litre Cylinder Filled with N <sub>2</sub> at 100 bar
Valve Thread	W 28.8 x 1/4"
Discharge Valve Type	SHT V 20-N <sub>2</sub>
Working Pressure	100 bar
Working Temperature	- 20°C + 50°C
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating
Approvals	MED, CE, TPED, UL Listed



## Release Hoses

Part No.	SH30503290	SH30506014	SH30522001
Connection	ISO 228 G. 7/8" (MF) x R. 1/8" (HG)	ISO 228 R. 1/4" (MG) x R. 1/4" (MG)	ISO 228 R. 1/4" (MG) x R. 1/4" (MG)
Size	DN 6	DN 8	DN 8
Length	160 mm	580 mm	700 mm
Material	Teflon PTFE & Stainless Steel Wire Braids		
Working Pressure	132 bar		
Burst Pressure	396 bar		
Approvals	UL Listed		



## Discharge Flexible Hoses

Part No.	SH30502140	SH30506070	SH30506001
Connection	ISO 228 G. 1" (HG) x G. 1" (HF)	ISO 228 G. 3/4" (HG) x G. 3/4" (HF)	ISO 228 G. 1" (HG) x G. 1" (HG)
Admissible Valve Type	SHT V25 & SHT V25/B	SHT V20	SHT V25 & SHT V25/B
Size	DN 25	DN 20	DN 25
Length	400 mm		
Material	Synthetic Rubber & High Tensile Steel Wire Braids		
Working Pressure	185 bar	240 bar	185 bar
Burst Pressure	740 bar	960 bar	740 bar
Approvals	UL Listed		



## Discharge Rigid Hoses

Part No.	SH30508080	SH30508000	SH23070204
Connection	ISO 228 G. 1/2" (FG-M)	ISO 228 G. 1/2" (FG-FG)	ISO 228 2 1/2" x 3" Groove
Admissible Valve Type	SHT V40 & SHT V40/B		SHT V65
Size	DN 40		DN 65
Body Material	Steel		
Working Pressure	132 bar		36 bar
Burst Test Pressure	396 bar		108 bar
Approvals	UL Listed		



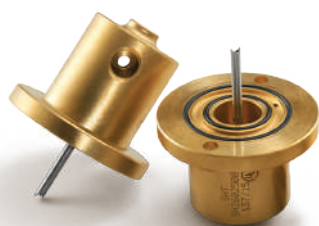
### 1 Way & 2 Ways Pneumatic Cone Release

Part No.	SH30027302	SH30027303
Cone Type	1 Way	2 Ways
Connection	ISO 228 M 30 X 1.5	
Triggering Pressure	15 bar -150 bar	
Working Pressure	200 bar	
Material	Brass	
Approvals	UL Listed	



### Decompression Screw and Relief Valve

Part No.	SH30027300	SH30027301	SH21006304
Type	Decompression Screw Type L	Decompression Screw Type C	Relief Valve
Working Pressure	140 bar		240 bar (Max)
Test Pressure	420 bar		NIL
Activation Pressure	NIL		20 bar (Min)
Material	Brass		
Approvals	UL Listed		



### Pneumatic Head for SHT V 65 Valve

Part No.	SH26025001	SH26025002
Head Type	Blind Pneumatic	2-Ways Pneumatic
Pneumatic Connection	G. 1/4"	
Material	Brass	
Approvals	UL Listed	



### Check Valves

Part No.	SH21006300	SH21006302	SH23070221
Size	1"	2"	3"
Manifold Connection	ISO 228 R1"	ISO 228 R2"	4" Coupling
Hose Connection	ISO 228 R1"	ISO 228 G. 1/2"	3" Groove
Material	Brass	Galvanized Steel	Brass
Approvals	UL Listed		





### Pressure Switch With Locking Device

Part No.	SH30330010
Connection	G. ½"
Min. Actuation Pressure	10 bar
Max. Working Pressure	370 bar
Working Temperature	-25°C to 80°C
Material	Brass
Approvals	Dir. 2006/95/EC ; 2006/42/EC ; 2004/108/EC ; UL Listed



### 180° & 360° Nozzles

Part No. 180° Nozzle	SH30400007	SH30400008	SH30400009	SH30400010	SH30400011	SH30400012	SH30400013
Part No. 360° Nozzle	SH30400000	SH30400001	SH30400002	SH30400003	SH30400004	SH30400005	SH30400006
Thread Size	¾"	½"	¾"	1"	1 ¼"	1 ½"	2"
Thread	NPT						
Working Pressure	60 bar						
Material	Steel						
Approvals	UL Listed						



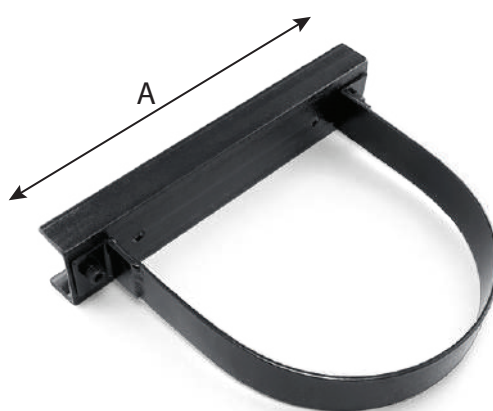
### Nozzles Threaded Diaphragms

Part No.	SH30440032	SH30440042	SH30440052	SH30440062	SH30440072	SH30440082	SH30440092
Thread Size	¾"	½"	¾"	1"	1 ¼"	1 ½"	2"
Material	Steel AISI 303						
Approvals	UL Listed						

## Manifold

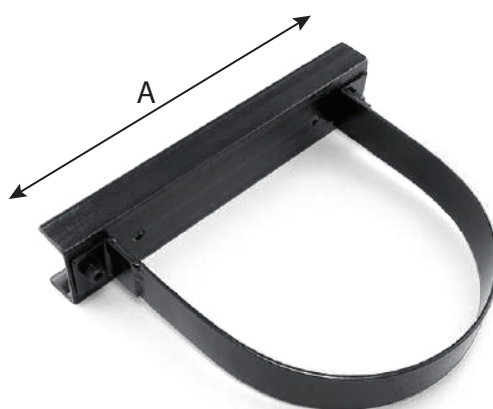


Pipe Connection	BSPT Male
Size Ø	2 ½" - 4"
Test Pressure	100 bar
Material	Carbon Steel ASTM A-105
Internal Coating	Galvanized
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating
Approvals	UL Listed



## Seamless Cylinder Bracket

Part No.	SH30621310		SH30625010		SH30626710		SH30621010	
Cylinder Capacity	5.0 litre	13.4 litre	26.8 litre	40.2 litre	67.5 litre	75 litre	100 litre	120 litre
Size (A)	215 mm		330 mm		365 mm		440 mm	
Thickness	5 mm							
Material	Carbon Steel							
Finishing	Black							



## Welded Cylinder Bracket

Part No.	SH30621010				SH30601175	
Cylinder Capacity	26 litre	40 litre	75 litre	120 litre	175 litre	240 litre
Size (A)	440 mm				600 mm	
Thickness					5 mm	
Material	Carbon Steel					
Finishing	Black					



## Extinguishant Control Panel

Model	EE1810-13
Size (W x H x L)	368 mm x 310 mm x 90 mm
IP Rating	IP30
Mains Supply	230V AC
Finishing	Signal Red Painted
Approvals	UL/FM Listed



## Extinguishant Control Panel

Model	QUESTOR-SZU
Part No.	SHC80003
Size (W x H x L)	368 mm x 310 mm x 90 mm
IP Rating	IP30
Mains Supply	230V AC
Finishing	Signal Red Painted
Approvals	UL/FM Listed



## Optical Smoke Detector

Model	VENATOR-DU
Part No.	SHD90006
Operating Voltage	9-33V
Feature	Equipped with Flashing LED
Approvals	UL Listed



## 135F Heat Detector

Model	VENATOR-DU
Part No.	SHD90007
Operating Voltage	9-33V
Feature	Equipped with Flashing LED
Approvals	UL Listed



## Abort Switch

Model	QUAESTOR-U
Part No.	SHW80001
Finishing	Signal Red Painted
Approvals	UL Listed



## Manual Call Point

Model	EE-302M
Size	88 mm x 88 mm x 59 mm
Maximum Voltage	30V DC
IP Rating	IP24D
Operating Temperature	-20°C to 70°C
Finishing	Signal Red Painted
Approvals	EN 54-11 / MS1745-11 BOMBA Approved



## Fire Alarm Bell

Model	EE-301
Size (Ø x W)	150 mm x 62 mm
DC Rated Voltage	24V DC
IP Rating	IP33C
Operating Temperature	-20°C to 70°C
Finishing	Signal Red Painted
Approvals	EN 54-3 / MS1745-3 BOMBA Approved



## Battery

Model	NP7-12
Size (W x H x L)	65 mm x 98 mm x 151 mm
Voltage	12V
Capacity	7 Ah
Operating Temperature	-20°C to 60°C
Approvals	UL Listed



### Surge Arrestor

Model	V20	FRD-24
Size (W x H x L)	78.5 mm x 90 mm x 35.6 mm	60.5 mm x 90 mm x 17.5 mm
Maximum Voltage	280V AC	19V AC
Approvals	EN 61643-11 , CE Marked	UL Listed



### Twin Flashing Light

Part No.	KP-305
Size (W x H x L)	74 mm x 90 mm x 179 mm
Operating Voltage	24V DC
Material	Mild Steel
Finishing	Black
Approvals	Factory Manufacturing Standard



### LED Evacuate Sign

Part No.	KP-309
Size (W x H x L)	89 mm x 102 mm x 254 mm
Operating Voltage	20-28V DC
Current Consumption	15mA@24V DC
Finishing	Black
Approvals	Factory Manufacturing Standard



# ENCLOSURE INTEGRITY TEST

It is laid down in NFPA 2001 standard that all total flooding clean agent systems shall have the enclosure examined and tested to locate and then effectively seal any significant air leaks that could result in a failure of the enclosure to hold the specified agent concentration level for the specified holding period of 10 minutes. Wherefore Eversafe offers a systematic gas integrity pneumatic test and provides with documented quantitative test results to our clients.

Our technicians are Retrotec certified level 3 testers who are comfortable with performing the enclosure integrity test, use Retrotec's FanTastic Integrity software to evaluate peak pressure, free vent area & etc., and also able to do larger and more complex tests.



Our Retrotec blower door fan unit and other test equipment are calibrated and reliable, it gives accurate measurement and test results.



# Our Global Network

*EVERSAFE® products are available in more than 45 countries worldwide*



**EVERSAFE EXTINGUISHER SDN. BHD.** (053162-V)

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