SYSTEM PRODUCT

Foam/Water Monitor

Description	Specification		
Model	FWM-80	FWM-100	FWM-150
Operating	Manual		
Material	Stainless Steel 316/316L, Bronze		
Rotation	360 degree		
Max. Working Pressure	16 bar		
Max. Capacity (L/min)	3700	6000	11750

Self Oscillating Device

Description	Specification		
Model	WO-80	WO-100	WO-150
Oscillating Angle	30 ,50, 70, 100 degree		
Material	Stainless Steel 316		
Max. Working Pressure	16 bar		

Pressure Vacuum/Relief Valve

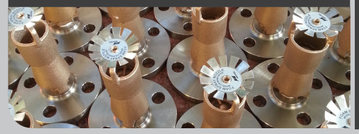
The Pressure Vacuum/Relief Valve is designed to be mounted directly to the top of the tank.

- Type : PRV 1-1/2" Twinact
- Material : Stainless Steel 316
- Operating : Automatic
- Pressure Setting : 0.21 bar
- Vacuum Setting : 25.4 MM Hg

FOAM SPRAY NOZZLE

The Low Expansion Foam Nozzles consist of a body and deflector especially designed for an optimized foam distribution.
The foam solution stream is fractioned and air is sucked in inside brass body, and then distributed by the deflector with covering angles up to ~ 100°.
Foam expansion rate typically 1:5.

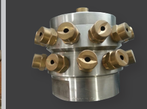
- Material : Body - Brass / Seat - Stainless Steel
- Model : US30, US50, US80, US100, US150

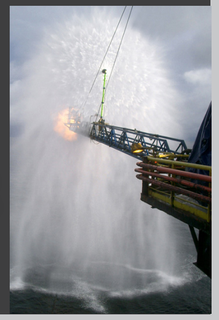


NOZZLE

Premium quality water range of water spray nozzles are designed for use in properly engineered fire protection systems. Ideal for providing exposure protection for capital equipment in refineries, offshore platforms, power stations, process plant and LPG/LNG installations.

Material : Stainless Steel, Bronze or Titanium
(or other optional)





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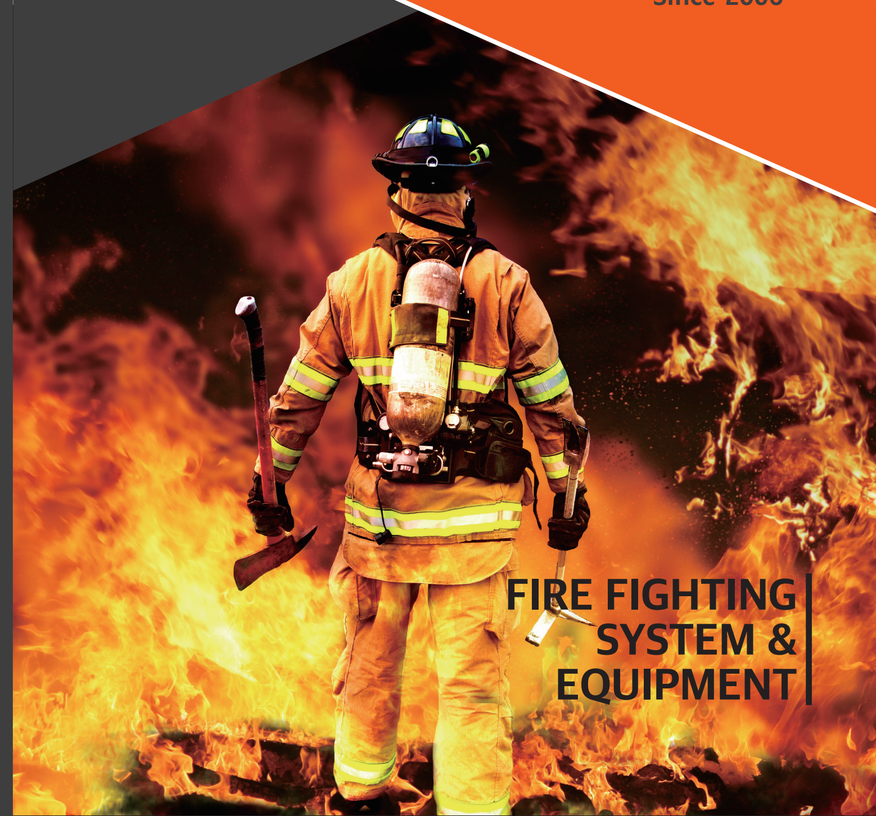


FIRE FIGHTING SYSTEM & EQUIPMENT

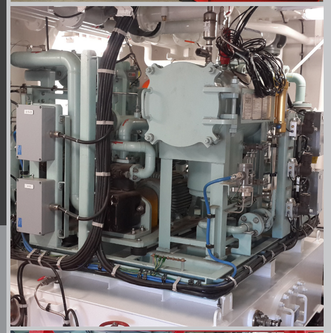
ENGINEERING & FABRICATION

Navutec work with Safety and Loss Prevention Engineering Services, Process Systems and as Safety Contractors. Our competence lies in technology, product know-how, project execution, integrated solutions and overall customer satisfaction. Through subsidiaries, affiliates and agent networking our goal is to be a global oil & gas industry provider of safety engineering and contracting services, integrated solutions and high technology products.

Navutec acknowledge the strict international requirements and adopt the specification into high quality and reliable fire protection systems.
We offer the completed range of systems.

Supply Items are

- DIFF System
- Deluge System
- Dual agent System
- Dry Chemical System
- Fixed Monitor System
- Foam System (Local, Centralized, Hi-Expansion)
- Foam/Water Hose Reel Unit
- Sprinkler System
- Water Mist System
- Hydrants
- Heli-Refueling System
- Chemical Injection Nozzle
- Hydro power pack
- E-house (HVAC, E&I, Fire fighting system)



Navutec brings many years of manufacturing experience to customers who require high-quality fabrication and mechanical assemblies.

Our capabilities include:

- Module & Structure
- Pressure vessel
- Piping
- E & I (Electrical & Instrument)
- Installation construction

LOOSE & SAFETY EQUIPMENT

Safe and efficient fire response operations require the readiness of high quality, effective safety equipment approved according to marine, offshore and national standards. We offer a complete range of Loose and Safety equipment based on individual vessel, rig and national requirements.
Loose & Safty Equipment are designed and tested to the latest regulations and requirements of the marine offshore industries. Approvals include SOLAS/MED, USCG, EN469 and NFPA.

Fireman's Outfit / Personal Protection Equipment

Fireman's Outfit and Personal Protection Equipment shall consist of the following ;
Self contained breathing apparatus
Fire suits, Helmet, Boots, Gloves, Hood
Safety belt, Lifeline, Fire axe, Safety Lamp

Additionally Breathing Air Compressor, EEBD and Radio Communication etc.are supplied.

Fire Extinguishers

Fire extinguishers are an active fire protection device used to extinguish or control small fires in emergency situations.
We supply the right size and weight of fire extinguisher & the suitable fire extinguisher type for the relevant class of fire.

- Water
- Foam
- Carbon Dioxide, CO_2
- Water Mist
- Dry Powder
- Wet Chemical

Container Fire Fighting

Mobile Water Monitor / WM-80M

Specification

- Material : Corrosion resistance material / Body - Stainless Steel 316 / Nozzle - Bronze
- Flow & Discharge rate : 1000 L/Min & 43 m at 4 bar
- Working Pressure : max. 16 bar
- Pivoting area : Horizontal 0 ~ 250 degree / Elevation range 0 ~90 degree

Water Mist Lance / NVT-WM Lance with Special Hammer

NVT-WM Lance

- Material : Stainless steel 316
- Water Consumption : 72 L/min at 4 bar(K-Factor : 34.6)
- Working Pressure : max. 20 bar
- Throwing Distance : approx. 10m

Special Hammer

Heavy hammer for making an opening for extinguishing lances in doors, steel tanks, roller shutters, roofing tiles etc. Made from gal'v steel, solid welded-on impact tip and non-slip handle.

FIRE HYDRANT EQUIPMENT

On the open sea, it is imperative to have marine fire fighting equipment on hand. From marine grade MED Approved fire hoses and nozzles to hydrant valves, ship-to-shore adaptors and a huge choice of International fire fittings.
We are your one-stop single source supplier for high quality, cost-effective fire hydrant equipment.

Fire Hose

High quality lay flat hose for all fire-fighting operations
Non-percolating lay flat fire fighting hose
- FH 38mm 52mm, 64mm /
  MED (Range of the inside diameter from 25mm to 52mm)

Hydrant Nozzle

Dual purposed Jet/Spray type
- NV- Nozzle : NV-12, NV-16, NV-19 / MED
- NV- Hand Grip Type : NV-250, NV-360, NV-475 / MED

Hydrant Couplings

Storz, JIS (Japan), Instantaneous BS336,
Gost Roct 2217-76(Russia), US-Standard NFPA 194,
Guillemin NF E 29-572 (France), Nor(Norway), Machino(Japan)

Hydrant Valves

Pressure Regulating Valve, Globe & Angle type etc..
Available for Class inspection certificate

International Shore Connection

* Hydrant couplings & valves are made with brass or bronze.
* Other material is also available.

Hydrant Cabinet

Cabinets come in all shapes and sizes.

Navutec have a variety of cabinets for fire hose, nozzle, foam making branchpipe, foam liquid, hose reels and valve for use in physically demanding locations from offshore and marine applications to onshore industrial uses.

And cabinet is designed to an installation condition. When outside temperature is minus, heater and insulation will be added.

These cabinets are available in Steel, Stainless Steel, Aluminum and GRP.

Hose Reel / Hose Reel Cabinet

Navutec offer a new, comprehensive range of easily installed hose reels, which combine high performance and rugged construction with compact and elegant design.

We have three kinds of hose reels.

Offshore hose reels have been specifically designed and developed for use in extreme conditions, therefore, the offshore hose reels are suitable for seawater. Wall mounting and self standing type are available.

Marine hose reel is typically in an indoor installation, therefore, they are designed for use in fresh water. Hose Reel mounted behind the door or inside the cabinet.

The general hose reel is stored in fire hose and nozzle.