

COMPANY PROFILE

SAFETY & PROTECTION
FULL-TIME GUARANTEE



Korea **S**teel **P**ower **C**orporation

“ That's a safety issue. There is no question about that. ”

Ken McEldowney

SAFETY IS MY NAME
PROTECTION IS MY GAME
KSPC

SAFETY & PROTECTION

FULL-TIME GUARANTEE





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company information

KSPC at a Glance

company History

organization

KSPC at a Glance



Established

1991.3.1



Capital

\$ 500,000



Sales in 2019

\$15,000,000



Employees

34



World-wide Networks

31 countries



Factory & Head Office

Busan, Kimhae, Gimpo



Plant / Factory Area

7,500 / 3,400 m²



Branch offices

Kimhae, Ulsan, Yeochon 

Company History

1991 Established KSPC at Hanam City, Kyoung-Ki Province
1994 Moved HQ & built new factory at Kimhae City, Kyoung-Nam Province
1996 Established a Research Institute of Technology
1998 Obtained ISO9001 Certificate
1999 Awarded The first Kyoung-Nam Best Trader by Kyoung-Nam Province

1900

2010 Moved office & built new factory at Gimpo City named to Korea Steel Power Corp.

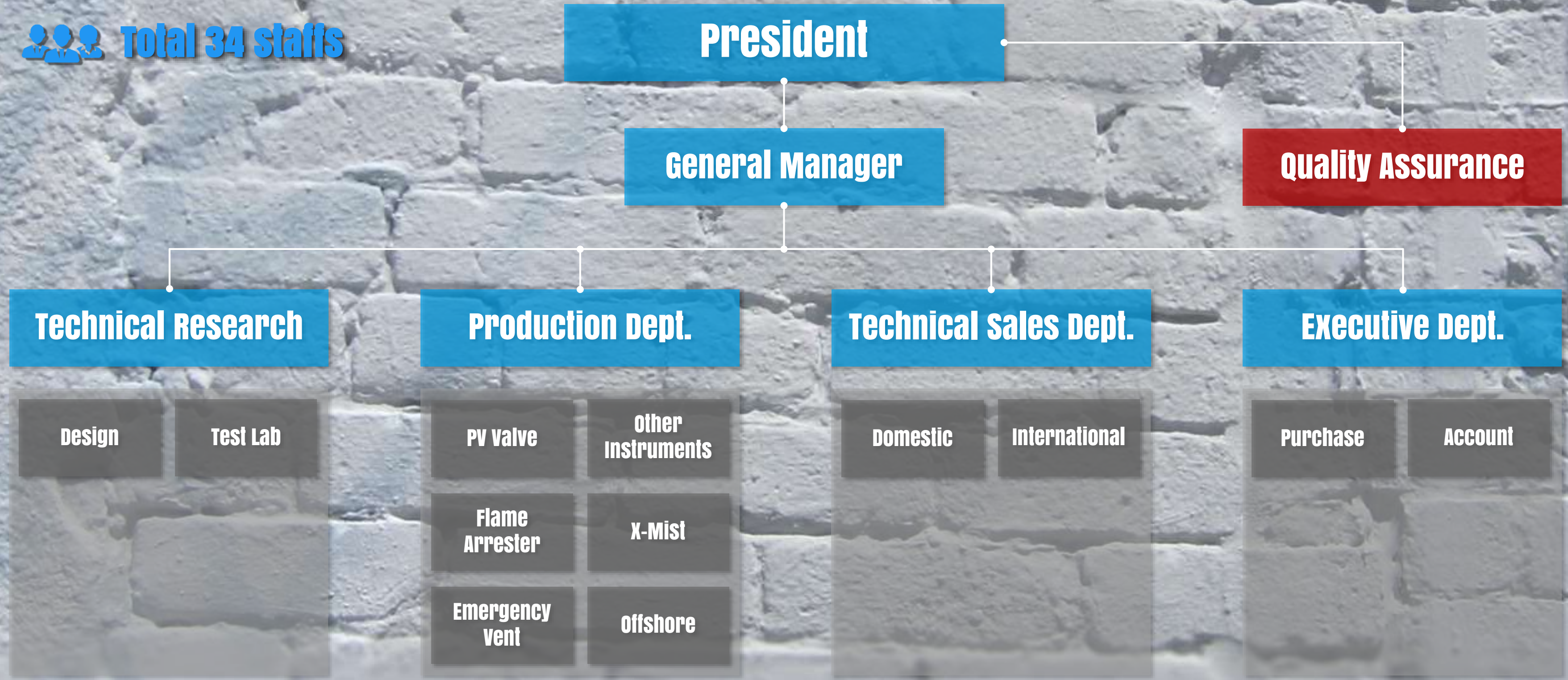
2010

2000

2000 Established company name to TANKTECH CO LTD
2001 Obtained USCG Certification for NEW-ISO-HV SERIES
2002 Won Official Commendation from Minister of Ministry of Commerce
2003 Developed Water Mist Firefighting System (X-MIST) & Tank Cleaning Machine (PM-80)

Organization

 **Total 34 staffs**



2

Main Products

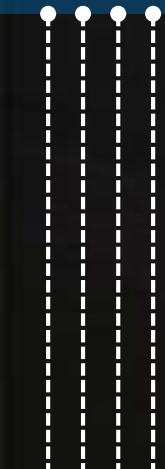
Safety & Protection System

Automatic Tank cleaning system

Fire Fighting System

Safety & Protection system

- **Pressure Vacuum Relief Valve**
- **Flame Arrester**
- **Emergency Vent cover**
- **Gauge Hatch, N2 blanketing system, R/Disc**



Pressure Vacuum Relief Valve

KSPC Pressure Vacuum Relief Valves are designed manufactured and tested according to the API 2000 code, these valves utilize the latest technologies to provide protection against positive or vacuum over pressure and prevent air intake, evaporative losses of product and help to contain odorous and potentially explosive vapor.

P/V Valve Types



KSBBS



KSVR/VS



KSBG/GS



KSBBFI/BSFI



KSBBFH/BSFH



KSPO



KSBBJ/BBJS



KSPR



KSPS



KSBD/DS



KSBGFI/GSFI

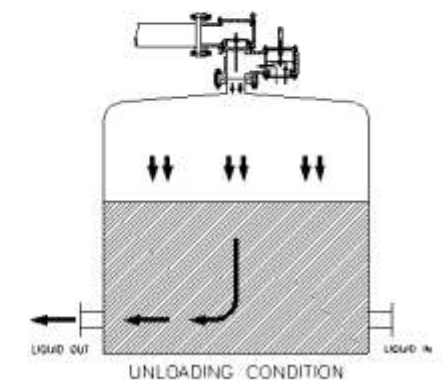
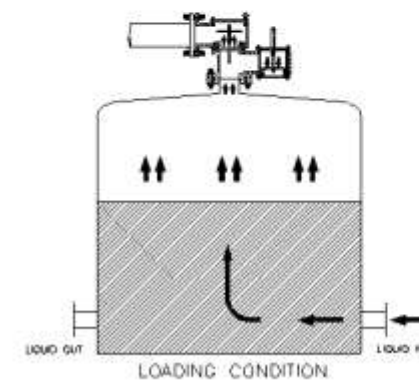
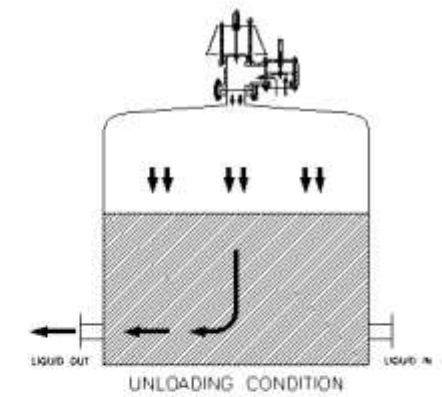
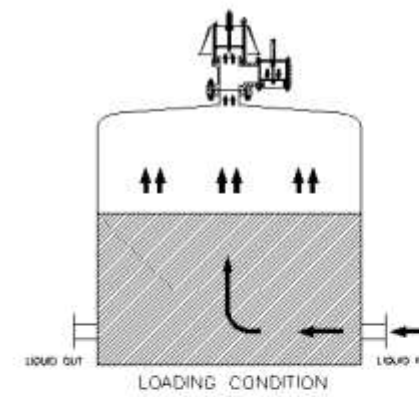


KSBGFH/GSFH



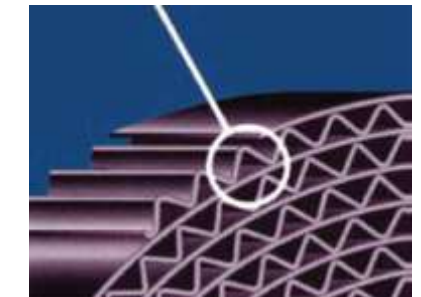
KSBBFY

Operation



Flame Arrester

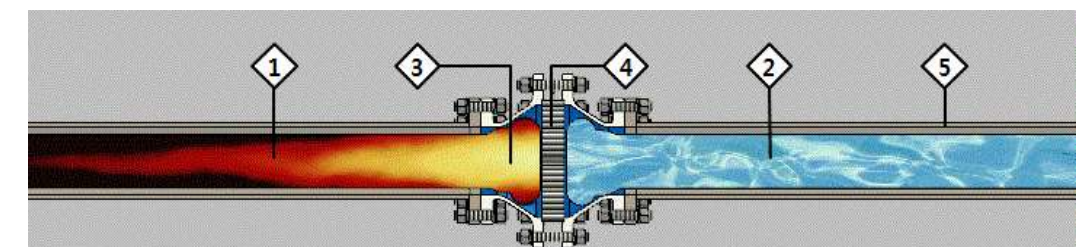
KSPC Flame Arrester of the model KSFI/FH is designed, manufactured, and tested according to ISO 16852 / EN12874 code. Installed in the top nozzle of the several kinds of the flammable low pressure storage tank (the ignition point below 65°C), it is the explosion proof and deflagration proof which blocks the influx of flame ignited externally into the tank.



Flame Arrester Types



Operation



- 1 Exposed Side
- 2 Protected Side
- 3 Flame Stabilized on arrester element
- 4 Flame arrester element absorbs
- 5 Piping

Emergency Vent cover

KSPC Emergency Vent Covers provide the capacity to meet API standard 2000 for emergency venting due to fire exposure when properly sized. These covers also provide quick easy access for tank inspection and maintenance.

The KSEP/EPK emergency pressure relief vent provides pressure relief only.

Vacuum relief must be supplied by normal venting devices, or use our KSEV emergency pressure and vacuum relief vent covers.

When excessive pressure builds within the storage tank the KSEP series emergency pressure relief vent begin to open at a predetermined set pressure relieving excessive pressure. And when the overpressure has dissipated the cover reseal onto the base.

Emergency Vent Cover Types



KSEP



KSEPK



KSES



KSEV



KSEVK



KSESV

Gauge Hatch, N2 Blanking, R/Disc

Gauge Hatch Cover with Sampling System



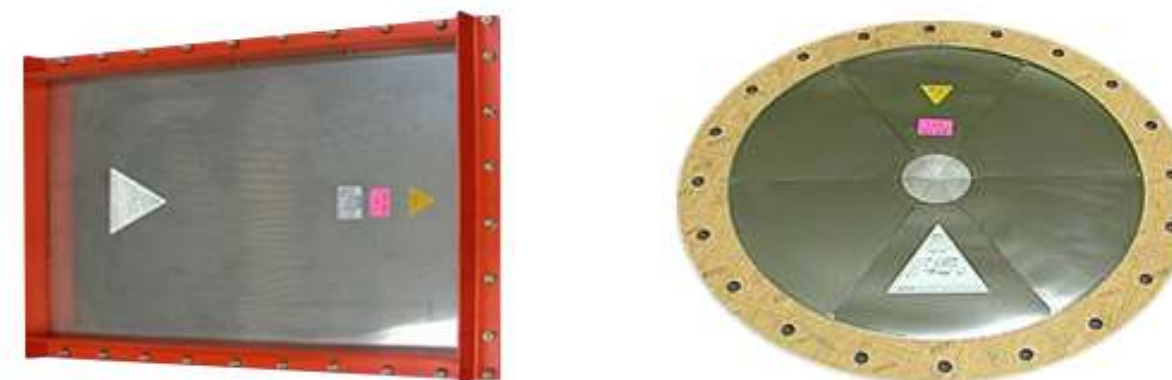
N2 Blanking System



Rupture Disc



Explosion Panel



Gauge Hatch with Tank Measuring

Portable Oil/Water Interface Detector, T2000 series offer total solution for management of cargo in tanks. This device can detect and measure the Ullage, Oil/Water Interface and Temperature Gauging of cargo at the same time.

- Measurement of tank liquid storage level, Water bound and Ullage
- Measurement of tank liquid temperature
- Inert Gas Sampling
- Liquid Sampling
- Inert Gas Pressure measurement
- Dryness check (hand Dipping)

Portable Measuring Devices



T2000-TFC-01
Oil/Water/Ullage



T2000-TSS-01
Liquid Sampling



T2000-TOS-01
Inert Gas Sampling

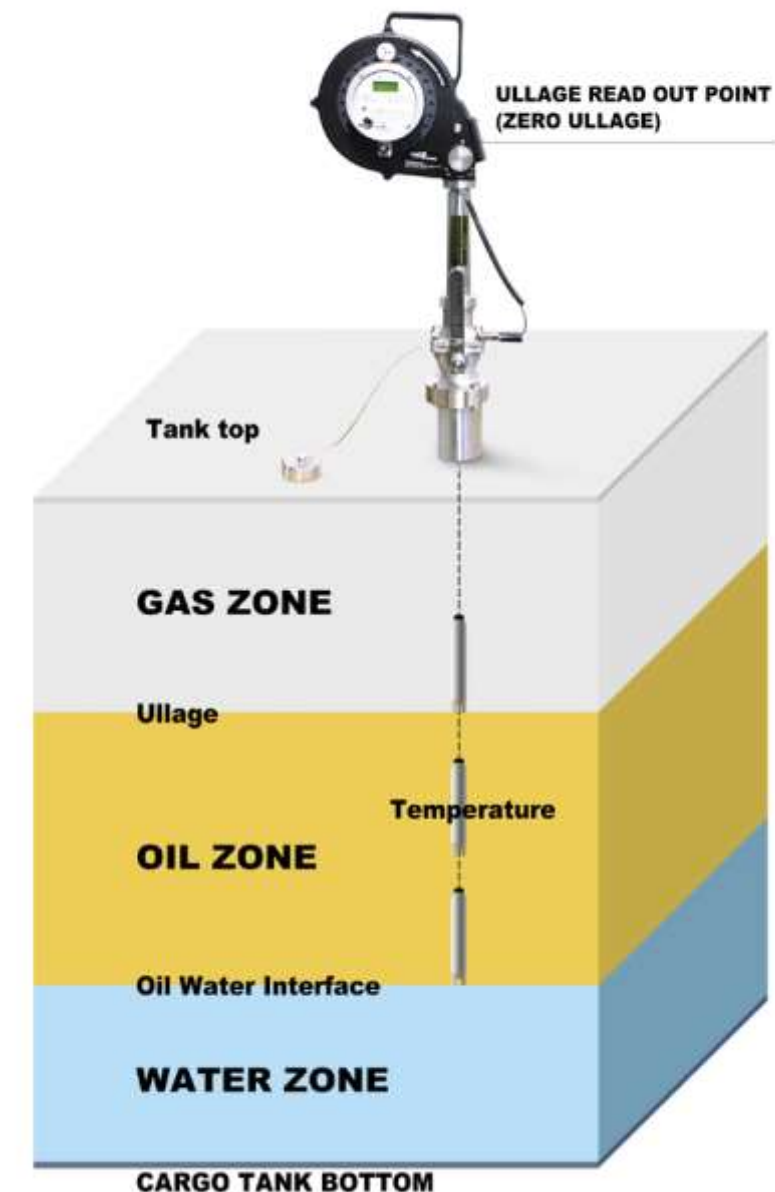


T2000-TPG-01
Inert Gas Pressure



T2000-TLS-01
Dryness Check

Tank Measuring on Gauge Hatch Cover



Air Release Valve

KSPC Air release valves are designed to release accumulated air pockets from the system, while pressured pipelines. Air pockets increase energy consumption because pumping operation will be at higher water heads to overcome pressured air. Air release valves have function to protect high shock and surge pressure, water hammer and liquid overflow from fresh or sea water pipelines.

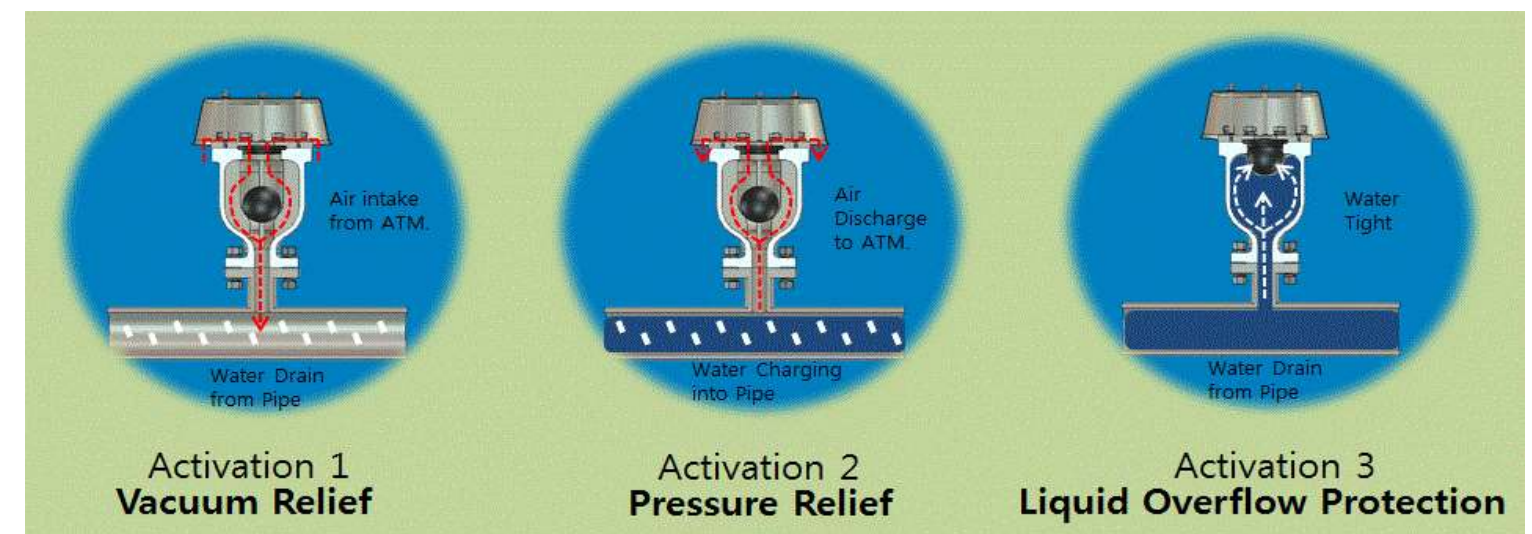
KSBJ air release valve can provide low cost insurance to protect expensive maintenance cost of pipelines and pump systems.

Air Release Valve Function

- Anti-Surge & Anti-Shocks
- Surge and Water-hammer Protection
- Liquid Overflow Protection
- Release air pocket from pipeline
- Increasing of pump efficiency
- Less system energy
- Maintenance free

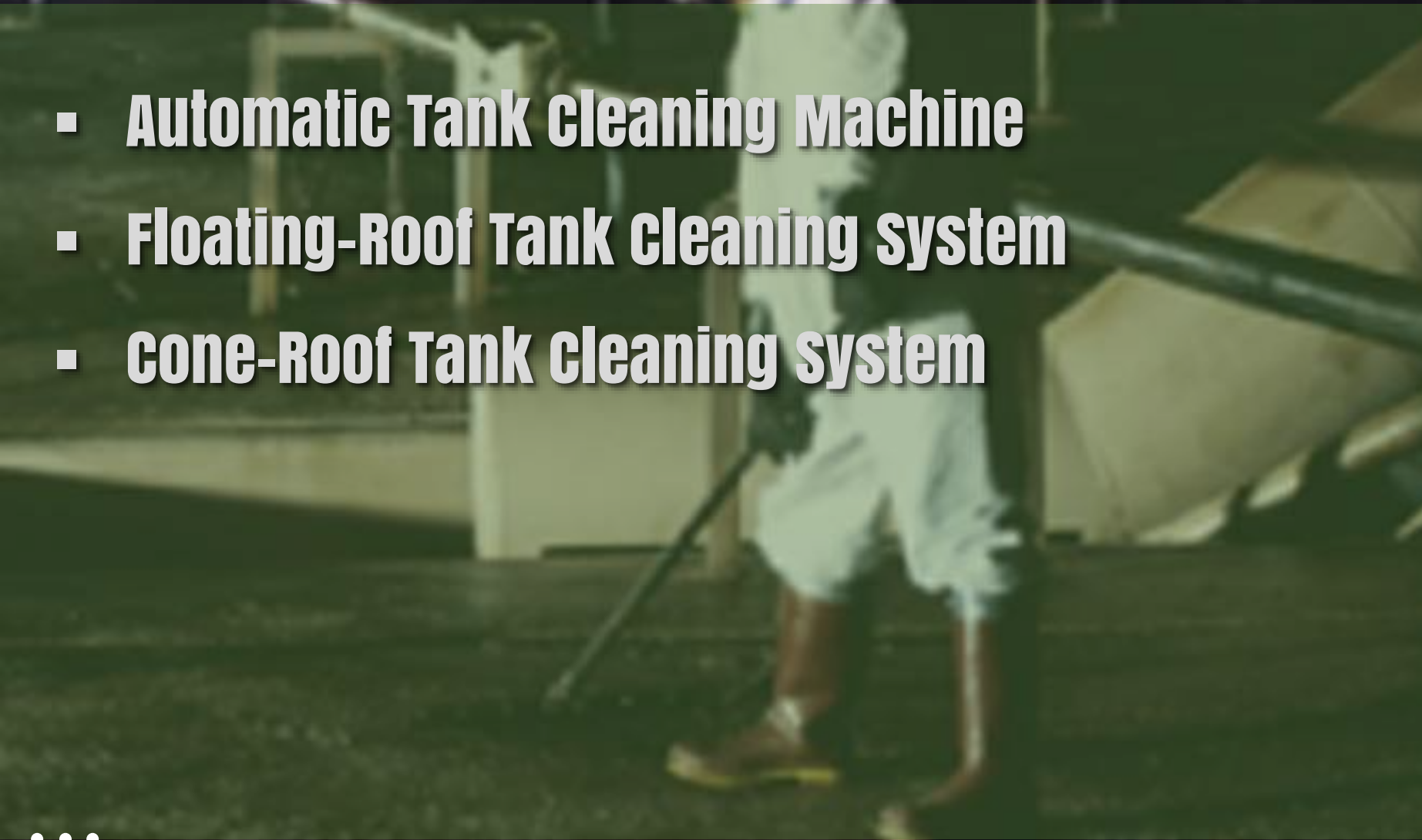


Operation



Automatic Tank cleaning system

- Automatic Tank Cleaning Machine
- Floating-Roof Tank cleaning system
- Cone-Roof Tank cleaning system



Automatic Tank Cleaning Machine



Automatic Tank Cleaning System is using fresh crude oil or cleaning chemical as cleaning agent. And the cleaning pump supplies the fresh crude oil to the tank cleaning machine through the flexible hoses.

Application Procedure









- 1** Measuring of sludge profile
- 2** Installation plan
- 3** Automatic tank cleaning
- 4** Extraction of sludge-oil mixture
- 5** Measuring of sludge profile
- 6** Repeat step 3 ~ 5 until cleaning completed

Easy Installation & Mobilization



Container Module



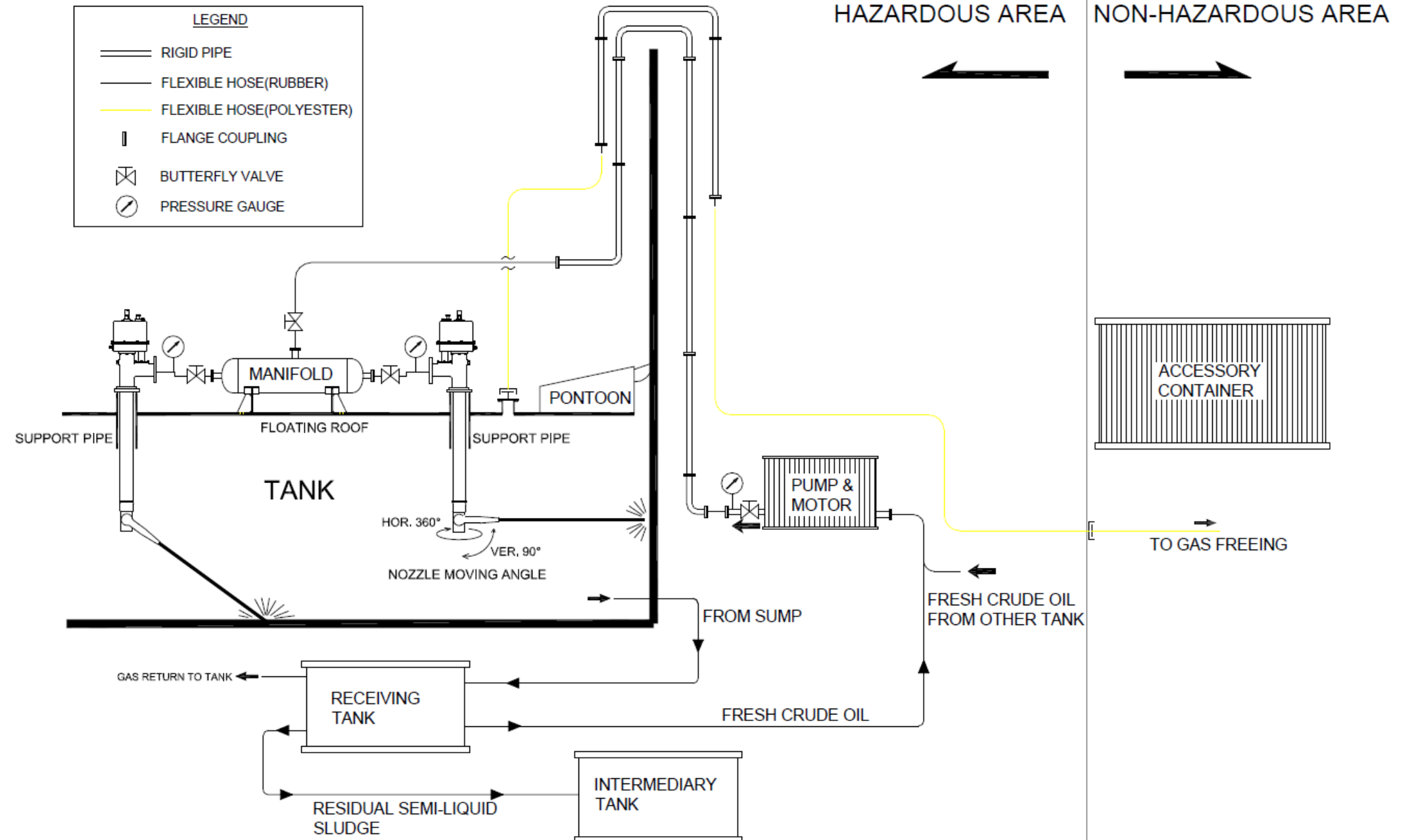
	Project	Customer	Oil Field / Operator	Qty
Offshore	Floating Production Unit		Moho Bilondo field, Congo	10 sets
			Bahregan field, Persian Gulf, Iran	101 sets
	Floating Storage and Offloading Unit		Abu Cluster field, Malaysia	55 sets
			Bunga Orkid field, Malaysia	46 sets
				Bach Ho field, Vietnam
	Floating Production Storage and Offloading Unit		Cendor Phaze II field, Malaysia	48 sets
Onshore	External Floating Roof Tank		North Refineries, Iraq	44 sets
			Al Ghaith, Qatar	1 full system
			Akita Oil Storage, Japan	10 sets

Floating-Roof Tank Cleaning System

Operation Concept



Schematic Drawing

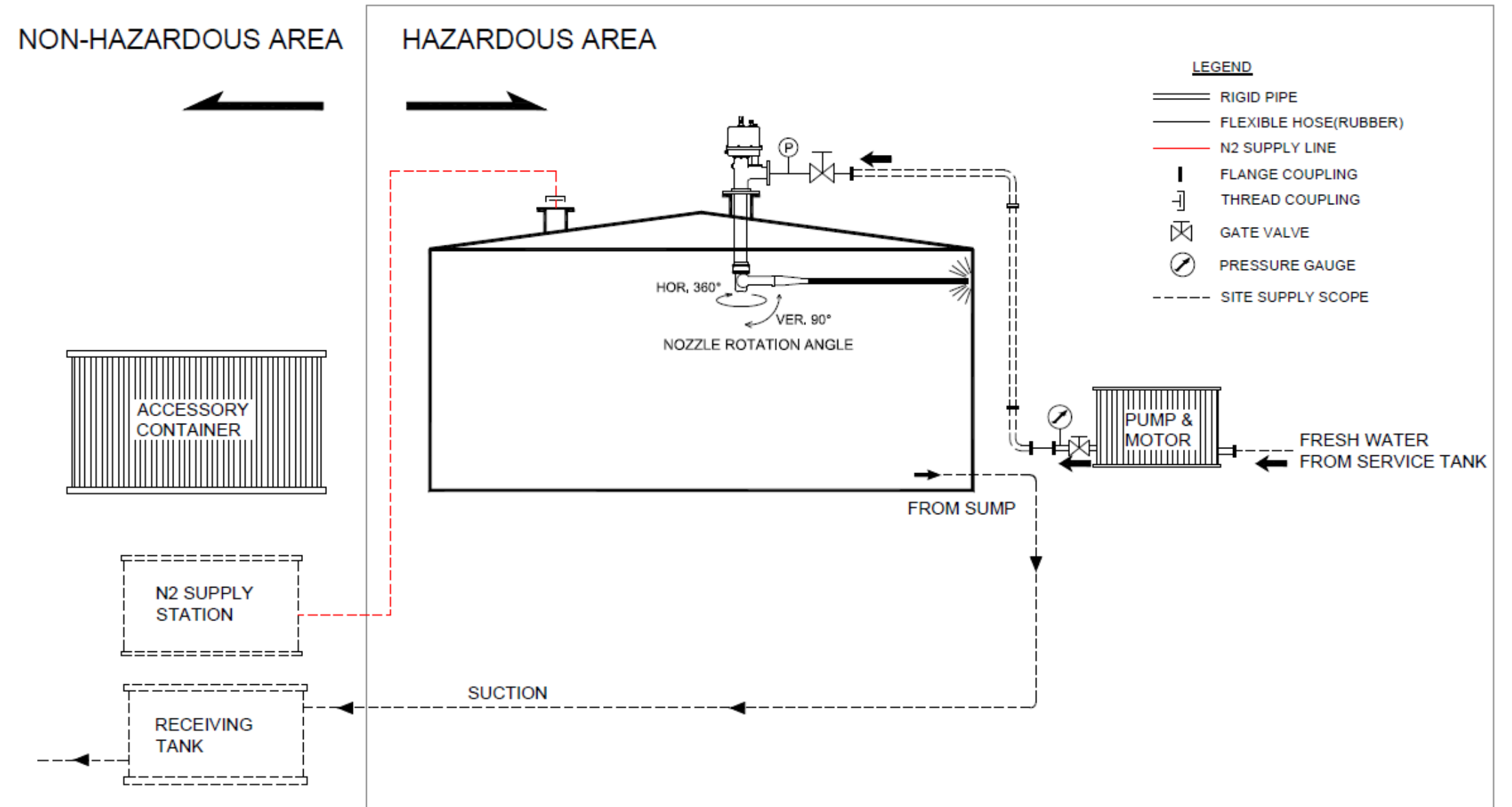


Cone-Roof Tank cleaning system

Operation Concept



Schematic Drawing



Fire Fighting system

- **Water-mist Fire Fighting system**
- **Deluge Fire Fighting system**



Water-Mist Fire Fighting System



X-MIST® SYSTEM is the next generation of fire fighting solutions and this system extinguishes fires by water vapor (water-mist). The exceptional cooling effect of water mist is a result of the division of water into very fine droplets, which increase the total surface area available to absorb heat and maximizes the evaporation rate of the water. All fire types, i.e. A, B, C type, can be covered by this new fire fighting system.



System Component

Pump Unit (MOV type)



Supply water to each protected area.
Composed of pump/motor, MOV valve, motor starter panel.

Benefits

- Motor operation valve with manual override
- No leakage while pump's running
- Easy maintenance

Main Control Panel



Receive fire signal from alarm control panel.
Operate pump/motor and section valve.
Check an error of system.

Local Control Panel

The panel is installed at each section.
Manual release of water mist.



Smoke / Flame Detector



Addressable type

Alarm Control Panel



Receive fire data from detector consisted loop.

Fire Monitor (Repeat Panel)



Receive fire data from main control panel.
Display the state of fire at each section.

Major Component

Water-Mist Nozzles for Local Area Application



Water-Mist Nozzles for Total Flooding Application

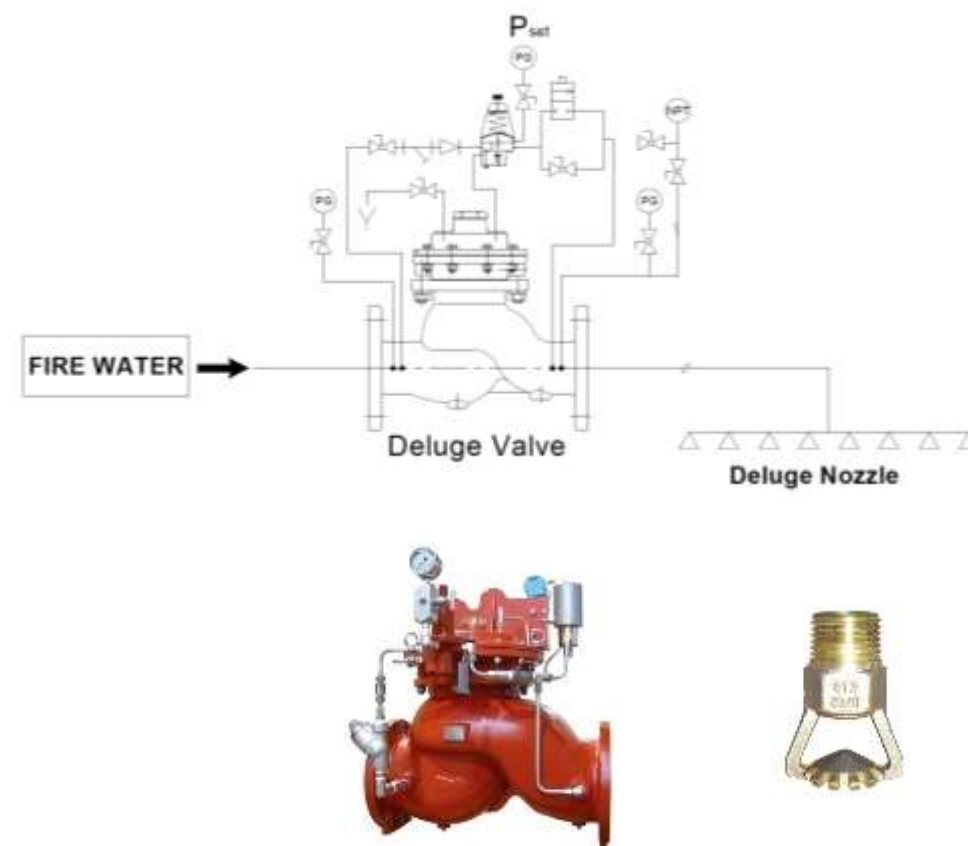


Deluge Fire Fighting System



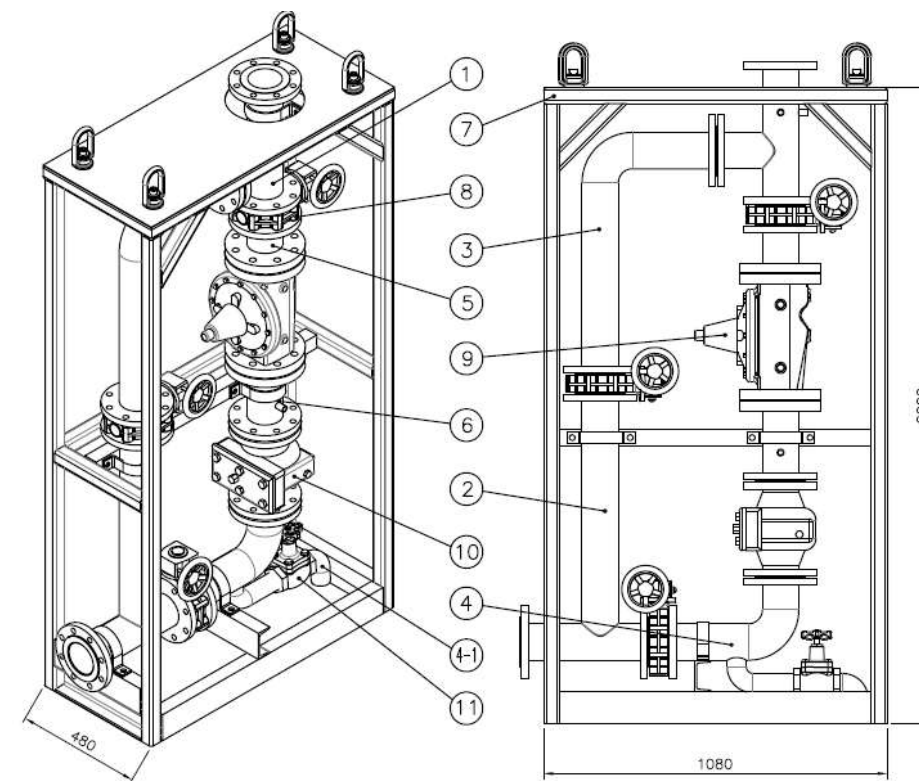
Deluge system is keeping closing state. When fire breaks out or in other emergency situation, the system is opened by electric actuating or manual and supply the fire water or foam to each deluge nozzle of the fire water line. And this system has the pressure regulating function which can preset the outlet pressure and supply the fire water as the preset pressure when the valve is opened.

Schematic Drawing & Major Component



System Design Capacity

- **Deluge Full Package : Valve + Nozzle + Control + Foam + Skid**



3

quality Management

quality Management system

ERP Management system

Quality Management System

QUALITY CERTIFICATION



CLASS CERTIFICATION



ERP Management system

ERP SYSTEM INTEGRATION



ERP SYSTEM APPLICATION



4

Major customers

customer List

Major customers

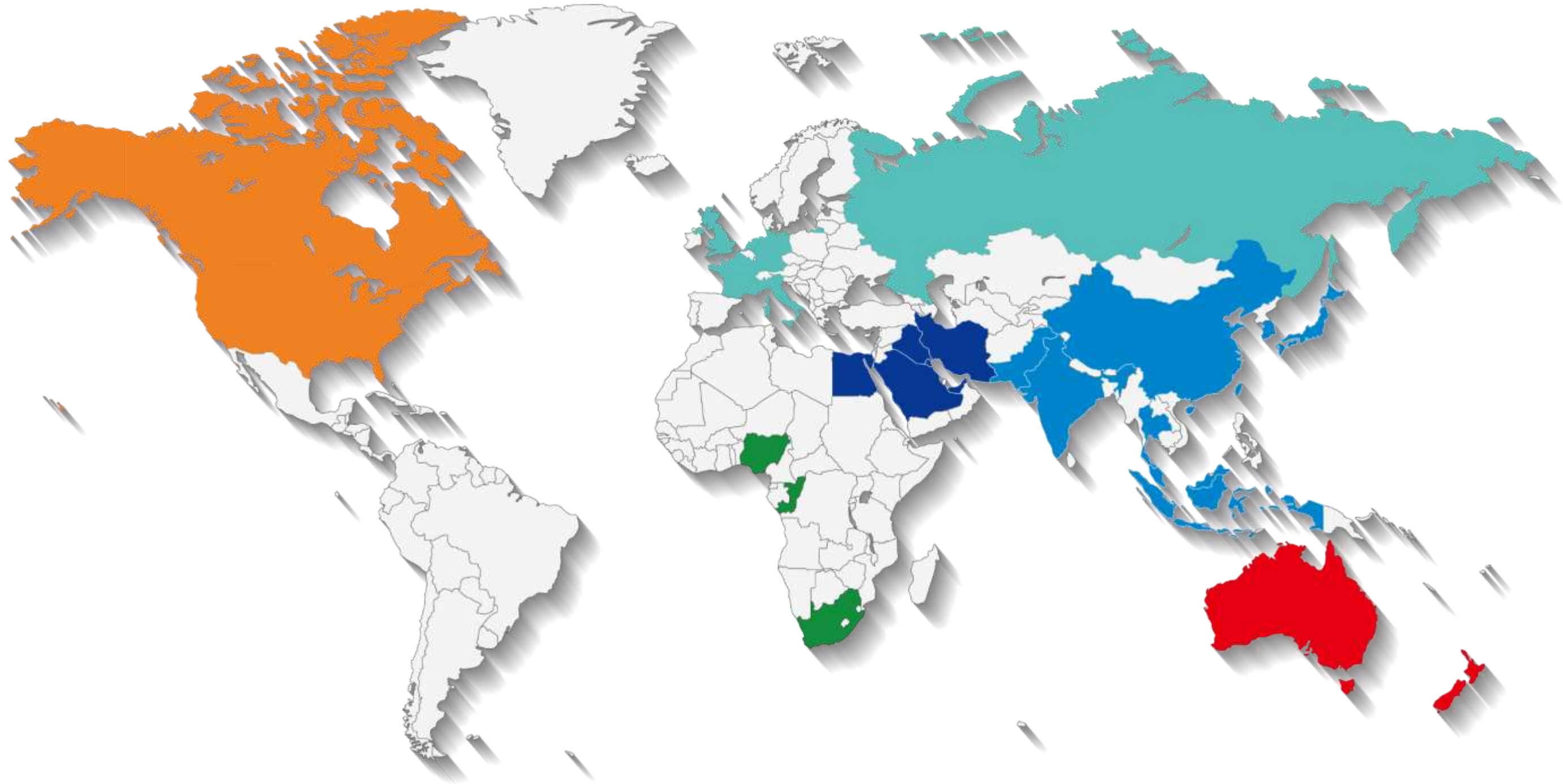


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World-wide Networks

KSPC Networks Map

KSPC Networks Map



AMERICA

EUROPE

AFRICA

MIDDLE EAST

ASIA

OCEANIA