WE

TRANSFORM CHALLENGES WITH EXPERTISE

CELEBRATING 25 YEARS

FIRETECH

www.firetechindia.com

ABOUT US

Since our inception in 1994, Firetech has been a leading Indian company in firefighting industry. Firetech has been a pioneer of foam based suppression system in India. Today 25 years later, we stand tall as a manufacturer of Water, Foam and Dry Chemical based firefighting system for Indian and International markets. Apart from manufacturing, we provide design and engineering solutions for industries. Our in-house Design and Engineering team is adept at providing a customized solutions for various types of fire hazards.

Till date, We have completed design and engineering of more than 500 fire fighting systems and supplied more than 1,500 fire fighting systems to customers across Oil & Gas, Petrochemical, Chemical, Fertilizer and other industries.

Firetech is recognized for its 'Expertise in Foam Systems' and has been invited to develop systems that are required to perform in the most demanding condition with minimal maintenance. We have been the choicest partner of Indian defence agencies. Firetech has supported the development of foam suppression system for India's first indigenously developed nuclear submarine – Arihant. We have also supplied foam system for the India's high altitude military aircraft hangers in Himalayan region.

Today, Firetech has served more than 600 clients across 25 countries including UAE, UK, Turkey, Italy, Vietnam, Sri Lanka etc. We are already present in around 10 countries and growing rapidly.

PHILOSOPHY

- Providing progressive solutions which embrace the modern trends to enhance safety
- Delivering end to end reliable services that encourage the development of the fire safety industry
- Making a positive impact and bringing a quality difference in the lives of our stakeholders

MILESTONES

1994 – Inception of Firetech

1999 – Received the 'Best SME Award' in the region

2000 – First international project executed rimseal protection for 32 tanks in Iraq

2013 – Launched UL listed bladder tank

2014 – Desinged high expansion foam system for Indian Airforce aircraft hanger

2015 – Launched UL listed high velocity long range monitors (HVLR)

2016 – Supply of India's larges foam based fire protection system for IOCL LNG project Ennore

2018 – Launched UL listed foam discharge equipment

2019 – Firetech celebrates 25 years of protecting critical assets

2020 – Launched UL listed MV Spray Nozzles

PRODUCT SUMMARY

Foam Bladder Tanks

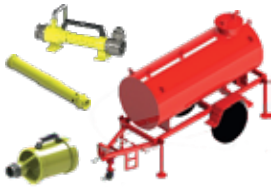
Fixed Foam Equipmemt

Foam Proportioning Devices

Foam Generator

Water & Foam Monitors

Portable & Mobile Skid



Deluge Valve

Spray Nozzles

Foam Tanks & System Skid

DCP Units & Twin Agent Skid

Foam Concentrates

Design & Engineering Services

FOAM BLADDER TANKS

- Capacity: 53 Gal. to 4000 Gal. (200 L to 15,000 L)
- Foam Proportioners: 50 NB to 200 NB
- Wide Flow Range: 75 LPM to 30,000 LPM
- Foam Vessel: Carbon Steel / Stainless Steel
- Bladder: Nylon Reinforced Nitrile (BUNA-N)
- Designed as per ASME Sec. VIII Div. 1
- Rated Pressure: 12 Bar (175 psi)kg/cm^2

FOAM PROPORTIONERS

INLINE BALANCED PRESSURE PROPORTIONER

- Available Sizes: 65 NB, 80 NB, 100 NB & 150 NB
- Flow range from 300 to 11,000 LPM
- Stainless Steel Construction (SS 304 & SS 316)
- Working Pressure: 3 to 12 kg/cm^2
- Flanged End Connection
- Manual over-ride not required
- Compact in Size

INLINE INDUCTOR

- Available Sizes: 50 NB, 65 NB, 80 NB, 100 NB
- Flow range from 75 to 2,700 LPM
- Body: Stainless Steel Construction (SS 304 & SS 316), Bronze Construction
- Working pressure: 7 to 12 kg/cm^2
- Flanged End Connection

FOAM MAKER

- Size: 50 NB, 65 NB & 80 NB
- Flow range from 66 LPM to 1,476 LPM
- Carbon Steel & Stainless Steel Construction
- Working Pressure: 2.1 - 7 Kg/cm^2
- Flanged End Connection

FOAM CHAMBER

- Size: 50 NB, 65 NB, 80 NB & 100 NB
- Flow range from 66 LPM to 2,838 LPM
- Carbon Steel & Stainless Steel Construction
- Working Pressure: 2.1 - 7 Kg/cm^2
- Glass/Acrylic Vapour Seal
- Flanged End Connection

FOAM POURER

- Size: 80 NB, 100 NB & 150 NB
- Carbon Steel & Stainless Steel Construction
- Compatible with Flanges: ANSI B 16.5, 150 #
- Used with foam maker for floating roof tanks

FOAM DEFLECTOR

- Size: 80 NB, 100 NB, 150 NB & 200 NB
- Carbon Steel & Stainless Steel Construction
- Compatible with Flanges: ANSI B 16.5, 150 #
- Used with foam chamber for fixed roof tanks

HVLR WATER CUM FOAM MONITOR (VARIABLE FLOW)

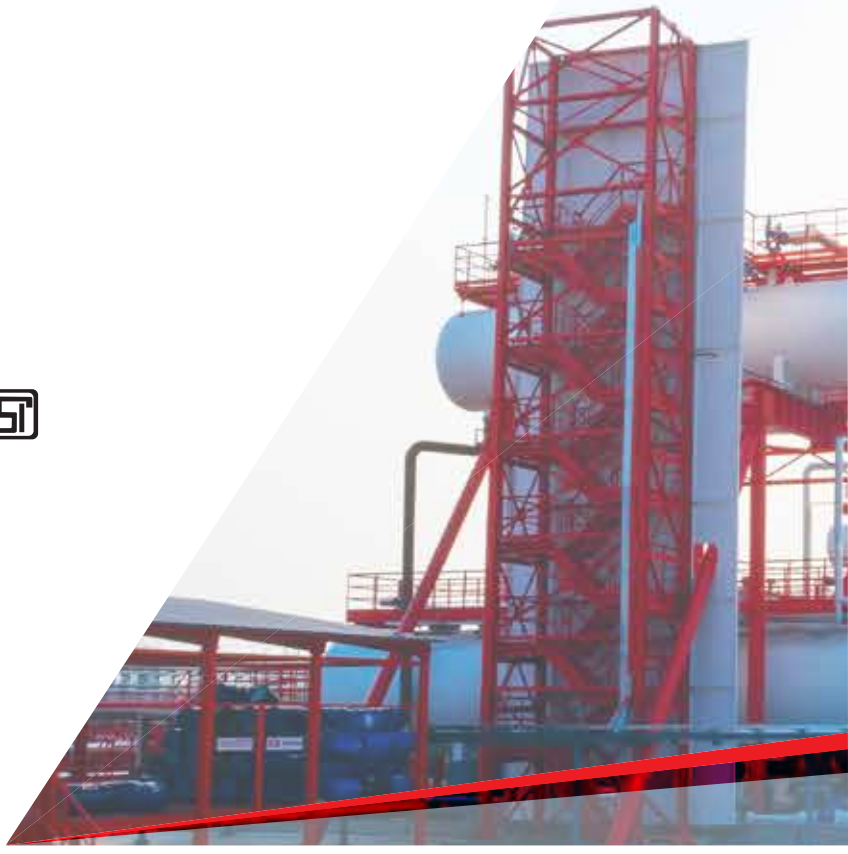
- Variable Flow: 1000-1500-2000 GPM
- Size: 150 NB (6") flanged inlet
- Stainless Steel waterway
- Gear for horizontal and vertical movement
  - ✓ 360°- continuous horizontal rotation
  - ✓ +90°, - 45°- vertical Rotation

WATER CUM FOAM MONITOR - 750 GPM

- Capacity: 750 GPM
- Size: 100 (4") flanged inlet
- Stainless Steel waterway
- Gear for horizontal and vertical movement
  - ✓ 360° - Continuous horizontal rotation
  - ✓ +90°, -45° - Vertical Rotation
- Horizontal Range with water @ 30 Deg. 60 Mtr.

WATER MONITOR

- Fixed Flow
- Available Flow: 1750 / 2580 / 3500 LPM
- Barrel Diameter Size: 63 NB, 80 NB & 100 NB
- Inlet Flange Size: 100 NB
- Barrel Construction: Carbon Steel / SS 304 / SS 316
- Nozzle Construction: Aluminium / SS 304 / SS 316



HIGH EXPANSION FOAM GENERATOR

- Flow range: 200 LPM -1000 LPM
- Expansion ratio: 1:500 – 1:600
- Inlet size: 50 NB /65 NB flanged
- Body: Stainless Steel
- No outside power source required
- Compatible with 2% high expansion foam

MEDIUM EXPANSION FOAM GENERATOR

- Flow range: 225 LPM -1600 LPM
- Expansion ratio: 1:35
- Inlet size: 50 NB /65 NB flanged
- Body: Stainless steel
- No outside power source required

FOAM CONCENTRATE STORAGE TANK

- Capacity: 200 L - 50,000 L
- Designed as per ASME Sec. VIII, Div. 1
- Body: Stainless steel/Carbon steel with FRP lining
- Available in horizontal & vertical mounting
- Flat end & dome end

FOAM CONCENTRATE

- FIRETECH AFFF 3% and 6%
- FIRETECH Freeze Protect AFFF 3%
- FIRETECH AR-AFFF 3 x 3% and 3 x 6%
- FIRETECH FP 3% and 6%
- FIRETECH FFFP 3% and 6%
- FIRETECH AR-FFFP 3%

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DELUGE VALVE

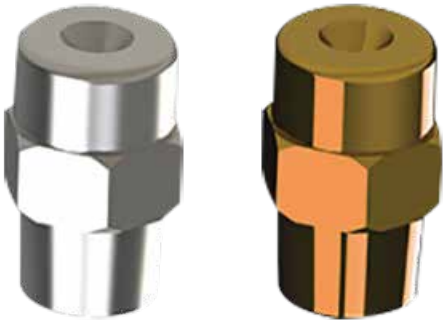
- Size: 40 NB, 50 NB, 80 NB, 100 NB, 150 NB & 200 NB
- Body: Ductile iron, Cast steel and Ni-Al Bronze
- Wet and electric trim with GI tubing & Brass valves
- Horizontal and vertical installation
- Automatic and optional manual resets
- End connections: Flanged to ANSI B16.5 #150

MEDIUM VELOCITY WATER SPRAY NOZZLES

- End connection: 15 NB (1/2")
- Material: Brass, Brass with Nickel Chrome finish, Ni-Al Bronze
- K factor (metric): 18, 22, 30, 35, 41, 51, 64, 79, 91 and 102
- Discharge angle (degrees): 90, 120, 140

HIGH VELOCITY WATER SPRAY NOZZLES

- End connection: 20 NB (3/4")
- Material: Brass, Brass with Nickel Chrome finish, Stainless Steel
- K factor (metric) x Discharge angle (degrees): 18 x 75, 22 x 80, 26 x 90 and 32 x 100
- Discharge angle (degrees): 90, 120, 140



FOAM SPRAY NOZZLE

- Construction: Brass nozzle with SS screen
- End connection: 15 NB (1/2")
- Material: Brass, Brass with Nickel Chrome finish, Ni-Al Bronze
- K factor (metric): 43 and 75
- Discharge angle (degrees): 120

MOBILE FOAM UNIT

- Tank capacity: 100, 200 & 500 L
- Tank body: Carbon Steel or Stainless Steel
- Portable inductor capacity 225 LPM
- Provision for mounting fire hoses
- Easily manoeuvrable

REVOLVING NOZZLE FOR TANK

- Gun metal construction
- K factor, Metric (US): 700 (49), 800 (56) 900 (63) & 1000 (70)
- End connection: 100 NB (4")
- M.S. flang as per ANSI B16.5 #150

FOAM TRAILER WITH MONITOR

- Foam tank and monitors: Stainless Steel
- Mounted on heavy duty steel trolley
- With towing facility and integrated stabilizing jack
- Capacity: 1000 L (other sizes available on request)
- Monitor: 750 / 1000 / 1500 / 2000 GPM

FOAM PUMP SKID

- Consisting foam pump, foam concentrate tank, inline balance proportioner , electrical panel and associated piping with valves mounted on singe skids
- Completely engineered, assembled and tested at factory as per project specific requirements

PRE-MIX FOAM SOLUTION SKID

- Consisting of premixed foam solution tank, Pressurised Nitrogen tank, and accessories
- Tank storage capacity: Up to 2000 L
- Electrical & remote actuation (optional)
- No external electric power & foam proportioning equipment required

DRY CHEMICAL POWDER SKID

- Self-contained DCP skid with hose reels and monitors
- DCP storage tank capacity: Up to 2000 Kgs
- Electrical or remote actuation
- Trailer mounted (optional)
- Nitrogen charging pressure: 150 Kg/cm^2

TWIN AGENT SKID

- Self-contained twin agent skid– Foam & DCP based
- Consisting of pre-mixed foam solution tank, DCP tank, Pressurised Nitrogen tank, foam hose reel and accessories
- Suitable for multiple class of hazards such as flammable liquids, gases and hydrocarbons
- Electrical & remote actuation (optional)
- No external electric power & foam proportioning equipment required

DELUGE VALVE SKIDS

- Consisting of deluge valves, isolation valves, strainer and other accessories
- Deluge Valve Size: 50 NB, 80 NB, 100 NB, 150 NB & 200 NB
- Body: Ductile iron, cast steel, Ni. Al Bronze
- Valves & accessories as per customer requirement

FOAM BLADDER TANK SKIDS

- Consisting of two or more bladder tanks, proportioners & accessories
- Bladder tank Capacity: Up to 15,000 L
- Carbon Steel or Stainless Steel Tanks
- Completely pre-piped with foam proportioner
- Multiple proportioners for multiple hazards

DESIGN & ENGINEERING SERVICES

At FIRETECH, we take safety seriously and hence it is our endeavour to provide most suitable and optimum solution to customers' requirements. We provide specialised design and engineering services related to various Fire protection systems to our customers.

Our services include:

- Development of fire-fighting philosophy based on type of hazard
- Basic & detailed engineering of firefighting systems
- On-site assistance for installation
- Testing & commissioning

We have executed over **400** designing and engineering assignments across multiple industries for their firefighting needs.

OUR SERVICES

- Oil storage tank protection
- Dyke protection
- Tanker loading bay protection
- LNG drain pit fire suppression
- Oil jetty protection
- Warehouse fire suppression system
- Off-shore platform protection
- Hydro-carbon pumping station protection

INDUSTRIES WE SERVE

- Oil & Gas
- Power Plants
- Port & Jetty
- Chemical and Paint
- Pharmaceuticals
- Fertilizers
- Defence & Aviation
- Power transmission

CUSTOMISED ENGINEERED SYSTEM SOLUTIONS

Every problem is unique and standard products don't always solve the problem. We recognize that our clients are trying their best to provide elegant solution to the problems posed to them and we assisted them by designing customised products solution that are easy to install, require low maintenance and easy to interface with rest of the systems. These solutions are designed by our in-house team of experts with vast industry and on-site experience and are tested for performance. Our customised product solution includes -

- **Fixed Foam Skids**
  - ✓ Foam Pump based Foam Proportioning Skids
  - ✓ Bladder Tank based Foam Proportioning Skids
  - ✓ Multiple Bladder tank based Foam Proportioning Skids
  - ✓ Inline Inductor based Foam Skids
  - ✓ Turbine Driven Foam Pump based Foam Proportioning Skids
  - ✓ Hydro-pneumatic Foam Skid
- **Twin Agent (DCP + Pre-mix Foam Solution) Skid**
- **Self-contained DCP Skid**
- **Deluge Valve Skids**

CLIENTELE

adani Ports and Logistics | asianpaints | Bharat Petroleum | BHEL | BLACK & VEATCH | BLUE STAR

Cairn | CPCL | CRODA | DOOSAN | EIL A Navratna Company | HMEL

HP | IndianOil | MINIMAX | NTPC | Oil India Limited

ONGC | Petrofac | Punj Lloyd | Reliance Industries Limited | SIEMENS | STERLING & WILSON

TATA PROJECTS LIMITED | Technip | thyssenkrupp | TOSHIBA Leading Innovation | TOYO ENGINEERING | UTC Fire & Security

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