PETRAC

PRODUCTS AND SERVICES

WE DESIGN

WE MANUFACTURE

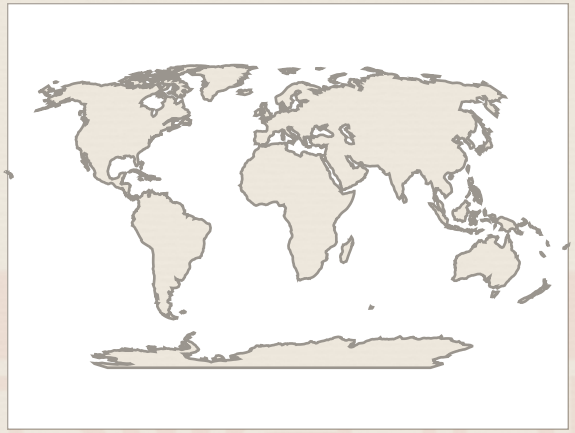
WE MAINTAIN

WE INSTALL

AND

WE DELIVER

OUR PRODUCTS



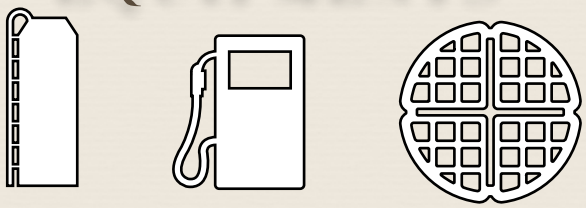
- STORAGE TANK EQUIPMENTS
- PIPELINE PIGGING SYSTEMS
- FIRE FIGHTING
- LOADING ARMS WITH SWIVEL JOINTS

PETRAC
FOR THE NEXT GENERATION OF ENERGY
WWW.PETRAC.COM.TR
İNFO@PETRAC.COM.TR

OUR SERVICES

- Engineering Design and Technical Support for the Customer Needs
- Installation and Maintenance of the Products
- Venting Capacity Calculations
- 1 Year Warranity

STORAGE TANK EQUIPMENTS



Floating Suction Pipe

A) Single Joint Floating Suction Pipe
B) Double Joint Floating Suction Pipe

Floating Roof

A) Internal Full Contantct Aluminum Roof
B) External Floating Roof
C) Floating Roof Sealing System

Folding Stairs

Vents

A) Pressure Vacuum Vent With Flame Arrester
B) Pressure Vacuum Vent With Humidity Control
C) Emergency Pressure Vent
D) Pressure Vacuum Vent
E) Hydraulic Pressure Vacuum Vent
F) Pipe-Away Pressure Vacuum Relief Vent
G) Deck Type
H) Cap Type Breather Valve
İ) Pressure Vacuum Vent For Cargo Tanks
K) Spring Loaded Pressure Vacuum Vent

Flame Arresters

A) Flame Arresters
B) End-Of Line Flame Arrester
C) Detonation Flame Arrester
D) Deflagration Flame Arrester

Sampling Hatches

A) Gauge Hatch
B) Gauge Hatch With Lock
C) Thief Hatch
D) Non-Atmospheric Sampling Hatch
E) Non-Atmospheric Sampling Hatch With Leveling Device

Emergency Pressure Relief Vent

A) Emergency Pressure Relief Vent
B) Weight Loaded Emergency Pressure Relief Vent
C) Spring Loaded Emergency Pressure Relief Vent
D) Manhole Cover

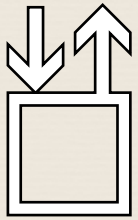
ATEX CERTIFICATED

ISO 9001 2015 CERTIFIED

ENVIRONMENTAL MANAGEMENT SYSTEM ISO 14001

PIPELINE PIGGING SYSTEMS

A. Pıg Receıver
B. Pıg Launcher
C. Pıg Sıgnal
D. Pıg Covers And Manhole

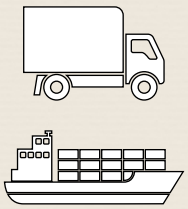


FIRE FIGTING SYSTEMS

A) Foam Maker
B) Foam Fuse
C) Foam Launcher
D) Foam Mixers
E) Sprinklers
F) Tank Roof Cooling Sprinkler

LOADING ARMS WITH SWIVEL JOINTS

A) Top Truck Loading Arms
B) Bottom Loading Arms
C) Marine Loading Arms



FLOATING SUCTION PIPE

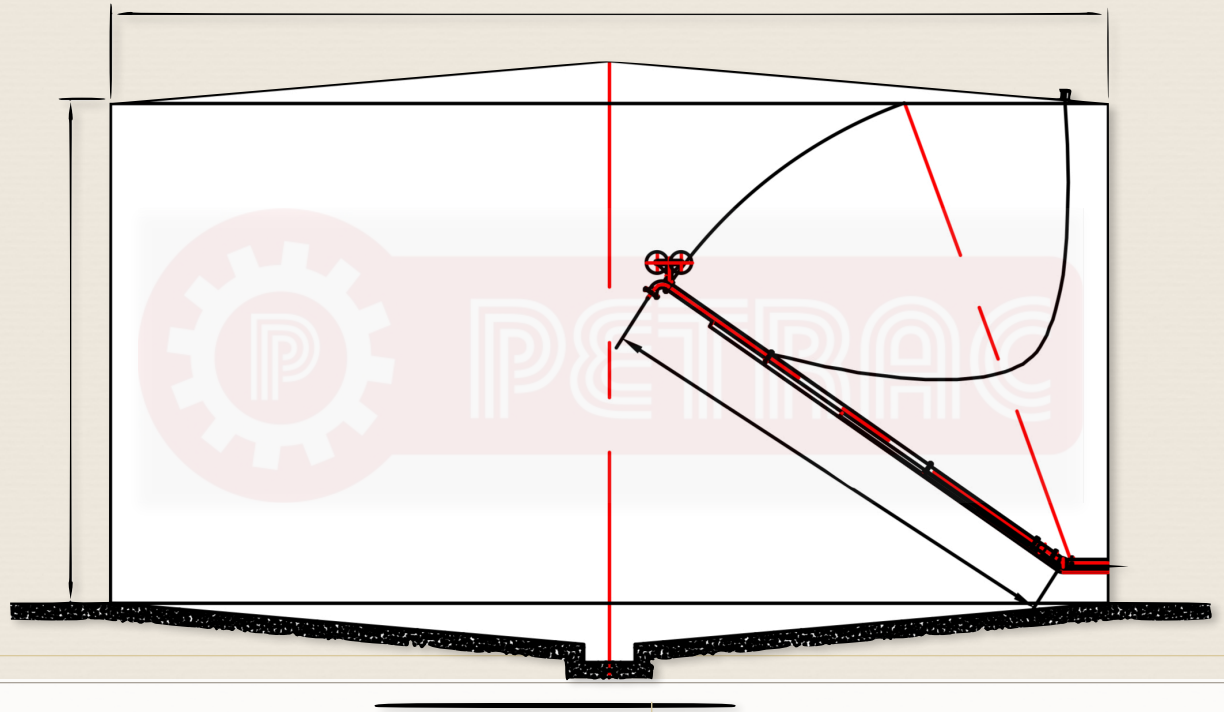
A floating suction pipe is a type of pipe that is used to extract fluids, such as oil or water, from a storage tank or body of water. It is designed to float on the surface of the liquid and move up and down with changes in the liquid level, while still maintaining a constant suction depth. This is achieved by attaching a float to the top of the pipe, which keeps it at the desired depth.

They are especially useful in situations where the liquid level is constantly changing, such as in offshore oil platforms or in tanks that are being filled or emptied.

One of the main advantages of floating suction pipes is that they can help to prevent the suction of unwanted sediments or debris that may settle at the bottom of the tank or body of water. This can help to ensure that the extracted liquid is of a higher quality and does not contain any contaminants.

FLOATING SUCTION PIPE

There are different types of floating suction pipes available, depending on the specific requirements of the application. Some common types of floating suction pipes are:



Single-Joint Floating Suction Pipe: This is a basic design that consists of a single suction pipe with a float attached to it. The float keeps the suction pipe at a constant depth, and the fluid is extracted from the surface of the liquid.

Multi-Joint Floating Suction Pipe: This type of floating suction pipe has multiple suction points that can be adjusted to different depths. This allows for more flexibility in the extraction process and can be useful in situations where the liquid level may vary.

FLOATING ROOF SYSTEM

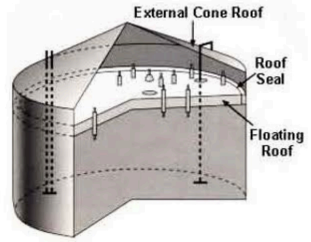
PETRAC offers a range of external and internal floating roof systems that are designed to minimize the evaporation of stored liquids and reduce emissions of volatile organic compounds (VOCs) into the atmosphere.

A floating roof system is a type of industrial storage tank that is designed to reduce the evaporation of volatile liquids such as gasoline, crude oil, and other chemicals. The floating roof is a structure that rests on the surface of the stored liquid and moves up and down with the liquid level, thereby reducing the exposed surface area of the stored liquid and minimizing the amount of vapors that escape into the atmosphere.

FLOATING ROOF SYSTEMS

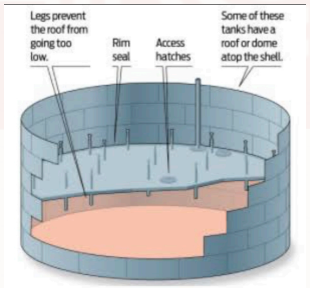
PETRAC floating roof systems is an effective way to reduce the amount of volatile liquids that evaporate into the atmosphere, and can help to minimize the environmental impact of industrial storage tanks.

Petrac's internal floating roof systems are designed to float inside the storage tank and are used to separate the stored liquid from the roof structure. The roofs are made of materials such as aluminum, stainless steel, or polyurethane foam, and can be customized to fit the specific requirements of each application.



Internal Floating Roof Tank

Petrac's external floating roof systems are designed to float on the surface of the stored liquid and move up and down with the liquid level. The roofs are made of lightweight and durable materials, such as aluminum or stainless steel, and can be configured with a variety of accessories, such as pontoons, rim seals, and roof drains.



External Floating Roof Tank

Petrac's external floating roof seals:
Double Seal
Single Seal

FOLDING STAIRS

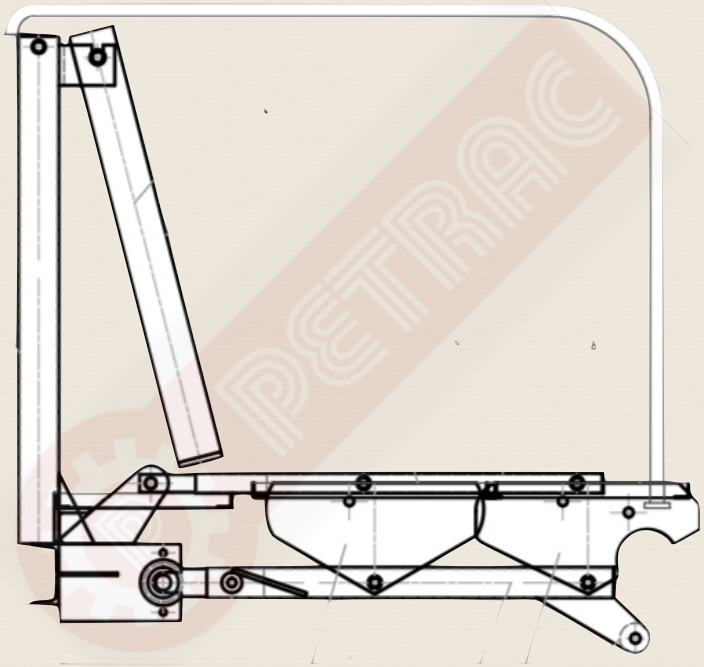
They feature a folding design, which allows them to be easily stored when not in use, and can be deployed quickly when needed.

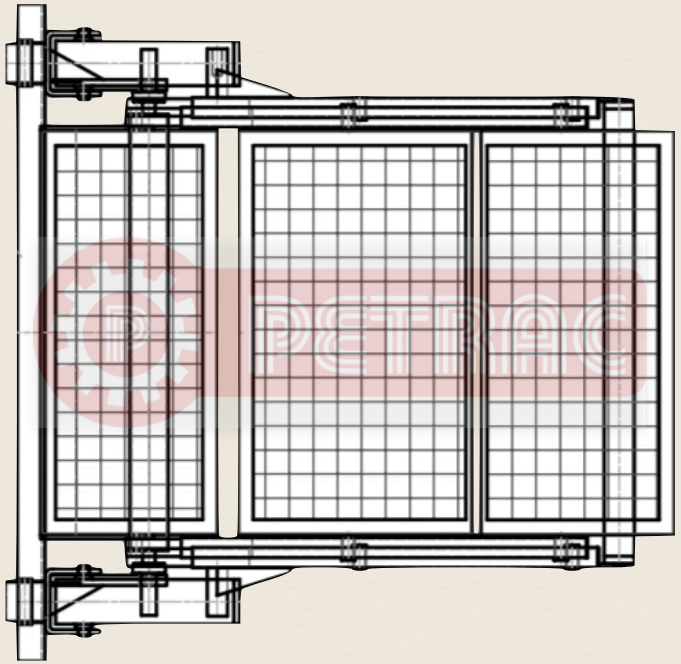
PETRAC's folding stairs are equipped with adjustable legs or wheels, which allow them to be positioned at the optimal angle and height for safe loading and unloading. They may also feature safety features such as handrails, non-slip treads, and locking mechanisms to prevent accidental movement.

Overall, loading folding stairs are an essential component of a safe and efficient loading dock, providing workers with a secure means of accessing transport vehicles and helping to prevent accidents and injuries.

FOLDING STAIRS

PETRAC's 3 Steps Folding Stair have been provided down below.





OPTIONS

Petrac's Mechanic Folding Stairs

Petrac's Pneumatic Folding Stairs

Petrac's Folding Stairs:

3 Steps 4 Steps and 6 Steps Options

Electrostatically Galvanized Carbon Steel or Aluminium Material

VENTS

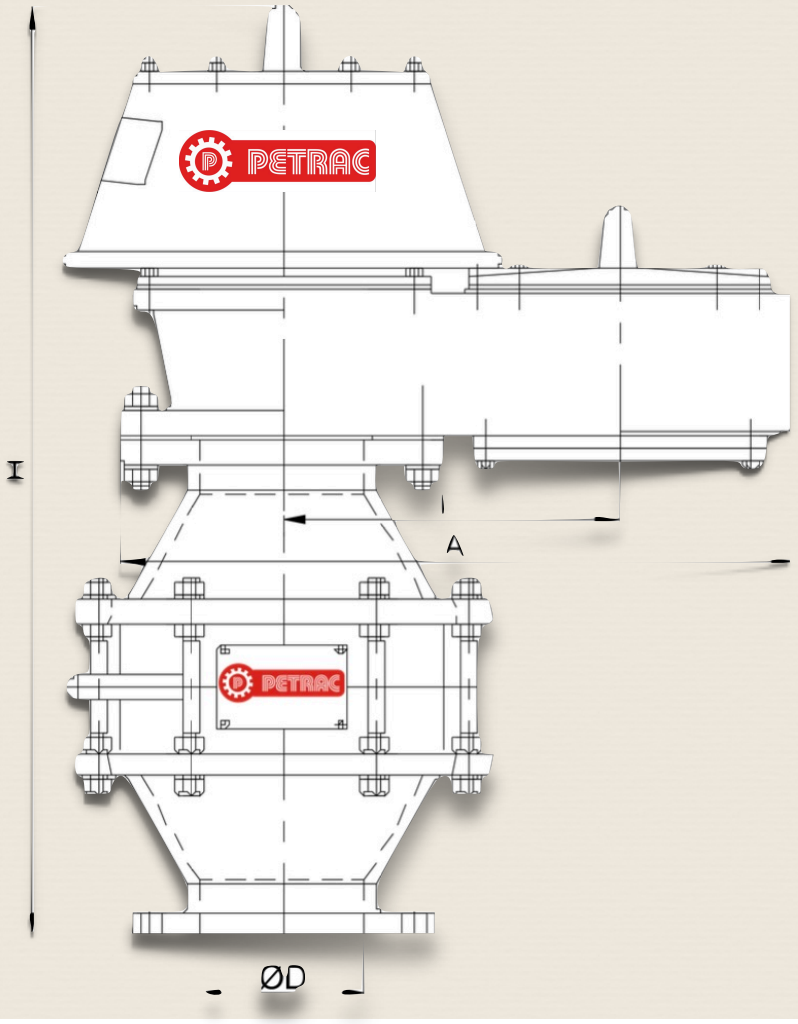
Petrac has a range of different vents with different specifications and different applications.

a) Pressure Vacuum Vent with Flame Arrester
b)Pressure vacuum vent with humidity control
c) Emergency Pressure Vent
d) Pressure Vacuum Vent
e) Hydraulic Pressure Vacuum Vent
f) Pipe-Away pressure vacuum relief vent
g) Deck Type
h) Cap Type Breather Valve
i) Pressure Vacuum Vent for Cargo Tanks
k) Spring Loaded Pressure Vacuum Vent

A PV (pressure/vacuum) vent is a valve that allows pressure or vacuum to escape from the tank or container. It is designed to open and close automatically, depending on the pressure inside the container. The pressure can build up due to temperature changes, evaporation of the contents, or other reasons. If the pressure is not released, it can cause the container to rupture, leading to a potentially dangerous situation.

PRESSURE VACUUM VENT WITH FLAME ARRESTOR

PV-Vent with Flame arrester is one of the PETRAC's top selling vents so you can review it and for the other types you can request the document from our compayTogether, the PV vent with a flame arrestor provides protection against explosions and fires by releasing pressure and preventing flames from entering the container or tank. They are commonly used in industrial settings where flammable liquids or gases are stored or processed.



ATEX CERTIFICATED

Nominal sizes:

2″

3″

4″

6″

8″

10″

12″

Pressure and Vacuum values can be set accordence to the customers needs and applications

FLAME ARESSTERS

Flame arresters are commonly used in industrial settings where flammable gases or liquids are transported or stored, such as in pipelines, storage tanks, and processing facilities. They are also used in the exhaust systems of internal combustion engines and in fuel storage containers.

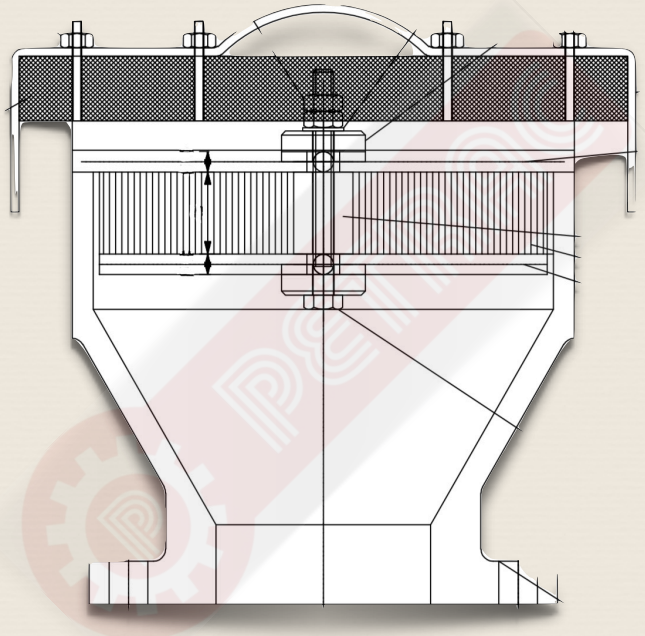
A flame arrester typically consists of a series of metal plates or wire mesh that are arranged in a grid pattern. When a flame or spark enters the device, the metal plates or mesh quench the flame by cooling and separating the combustible gas or vapor from the oxygen needed for combustion.

Flame Arrester Types;

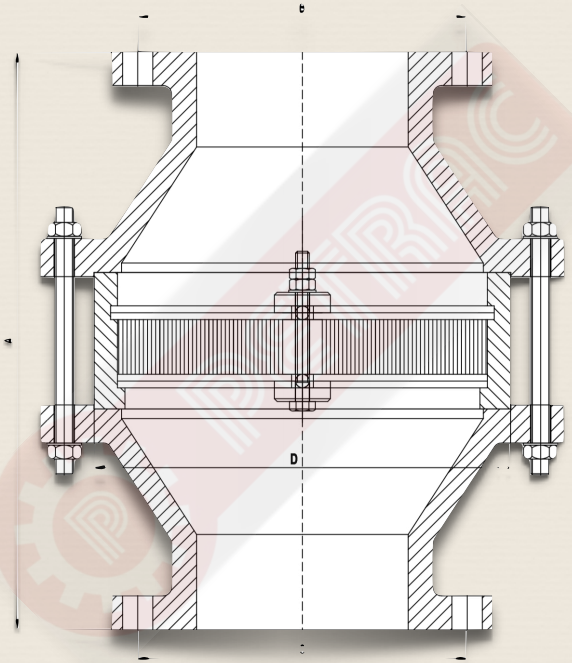
- In-Line Flame Arrestor
- End-of Line Flame arrester
- Detonation Flame arrester
- Deflagration Flame arrester

FLAME ARRESTERS

Flame arresters are an important safety feature because they can prevent catastrophic explosions and fires that can result from the ignition of flammable gases or liquids.



Petrac's End of Line Flame Arrester:



Petrac's In Line Flame Arrester:

SAMPLING HATCHES

.Sampling hatches, also known as tank hatches or inspection hatches, are a type of access point that is installed on the top of an industrial storage tank. Sampling hatches are typically used to allow workers to take samples of the stored product, or to inspect and maintain the interior of the tank.

Sampling hatches are typically made of materials such as stainless steel, aluminum, or plastic, and may be hinged or bolted in place. They can be equipped with a range of features, such as gaskets or seals to prevent leaks, locking mechanisms to prevent unauthorized access, and screens or filters to prevent debris from entering the tank.

Sampling Hatches

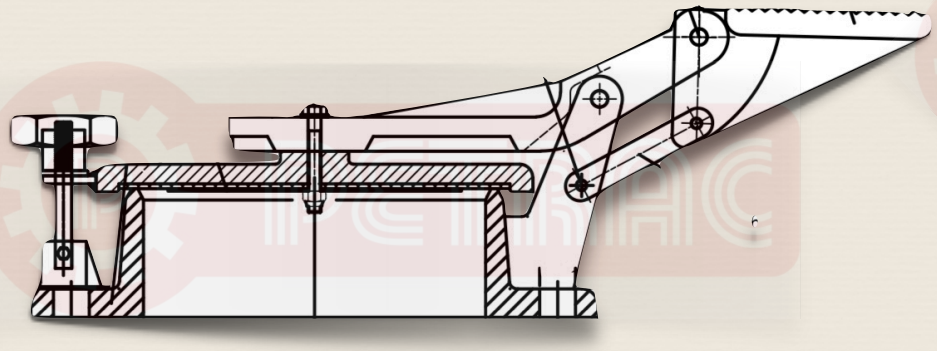
a) Gauge Hatch
b) Gauge Hatch with Lock
c) Thief Hatch
d) Non-Atmospheric Sampling Hatch
e) Non-Atmospheric Sampling Hatch with Leveling Device

SAMPLING HATCHES

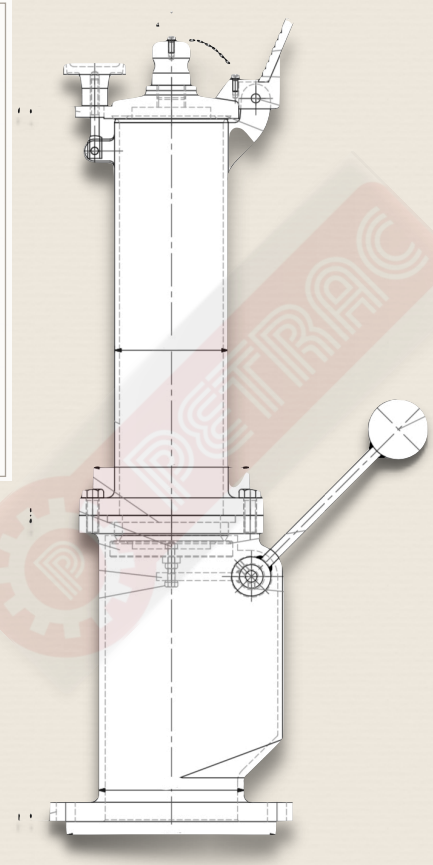
Overall, sampling hatches are an essential component of any industrial storage tank, providing workers with safe and reliable access to the stored product and helping to ensure the safe and efficient operation of the tank.

Two main of the PETRAC's sampling hatches has been provided to view. For the needs and specifications of the customer sampling hatches can be designed at the desired sizes and material options.

Body Material	Gasket	Arm	Disk	Cover
Aluminum Carbon Steel 304 SS 316 SS	P.T.F.E. Neoprene	Carbon Steel 304 SS 316 SS	Aluminum Carbon Steel 304 SS 316 SS	Aluminum Carbon Steel 304 SS 316 SS



Petrac's Gauge Hatch



Petrac's Non-Atmospheric Sampling

EMERGENCY PRESSURE RELIEF VENTS

An emergency pressure relief vent is a safety device installed on industrial storage tanks that is designed to relieve excess pressure in the event of an emergency. The vent works by allowing gas or vapor to escape from the tank when the pressure inside exceeds a certain threshold, which helps to prevent the tank from rupturing or exploding.

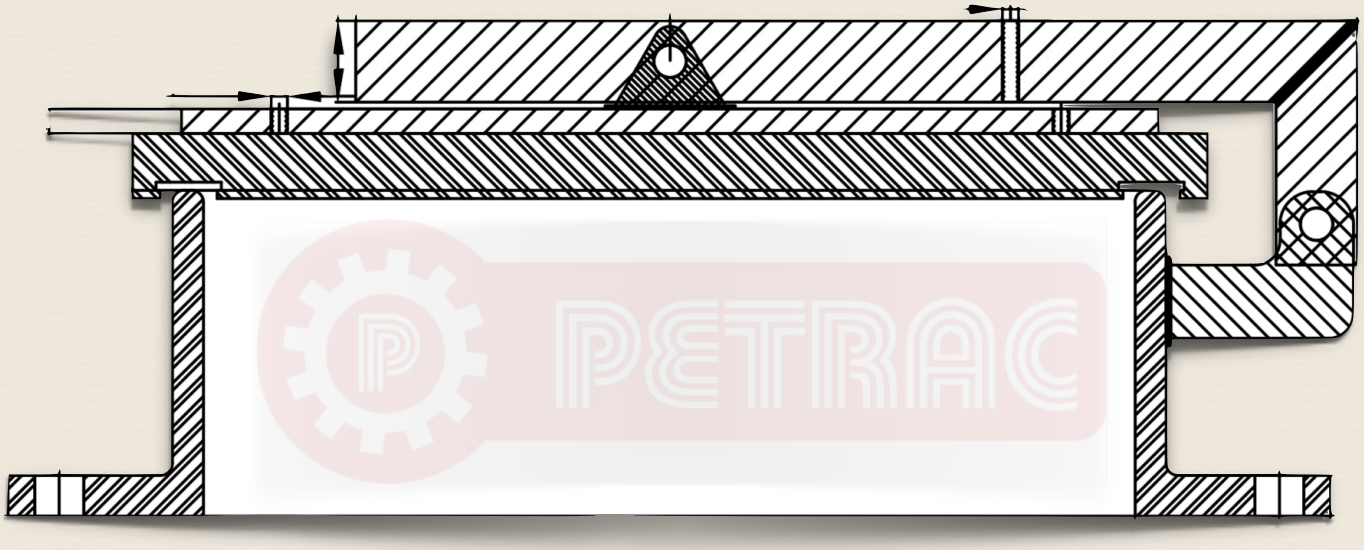
Emergency pressure relief vents may also be equipped with additional features, such as flame arrestors, which are designed to prevent the escape of flames or sparks that could ignite the escaping gas or vapor. They may also be equipped with filters or screens to prevent debris or other contaminants from entering the tank.

Emergency Pressure Relief Vents

a) Emergency Pressure Relief Vent
b) Weight Loaded Emergency Pressure Relief Vent
c) Spring Loaded Emergency Pressure Relief Vent
d) Manhole Cover

EMERGENCY PRESSURE RELIEF VENTS

Overall, emergency pressure relief vents are an essential safety device for any industrial storage tank, helping to protect workers and prevent catastrophic accidents or damage to the tank or surrounding environment.



PETRAC's emergency pressure relief vent has been provided to view. For the needs and specifications of the customer emergency pressure relief vents can be designed at the desired sizes and material options.

Sizes: 8" to 36"

Base	Arm	Disk	Seal	Seal Support
Carbon Steel 304 S.S. 316 S.S.	Carbon Steel 304 S.S. 316 S.S.	Carbon Steel Aluminum 304 S.S. 316 S.S.	Buna-N FEP Teflon Viton	Aluminum 304 S.S. 316 S.S. Zinc

Petrac's Emergency Pressure Relief

PIPELINE PIGGING SYSTEMS

In the oil and gas industry, a pig launcher is a piece of equipment used to launch pipeline inspection gauges, commonly known as "pigs," into a pipeline. A pig launcher typically consists of a chamber where the pig is loaded into the pipeline, as well as valves and fittings to control the flow of the product being transported in the pipeline. A pig receiver, on the other hand, is a piece of equipment used to receive the pig at the end of its journey through the pipeline.

Pig launchers and receivers are essential components of pipeline systems, as they allow for the safe and efficient insertion and removal of pigs during pipeline maintenance, cleaning, and inspection. They also help to prevent product loss and minimize the risk of environmental damage or safety hazards during the pigging process.

a) Pig Receiver

b) Pig Launcher

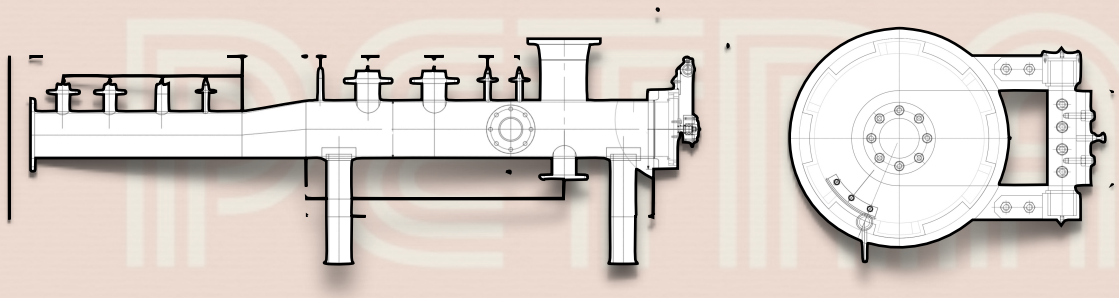
c) Pig Signal

d) Pig Covers And Manhole

PIPELINE PIGGING SYSTEMS: PIG RECEIVER AND LAUNCHERS

Overall, the design of pig receivers and launchers is crucial to the safe and efficient operation of pipeline systems. It is important to work with experienced engineers and manufacturers to ensure that the pig launcher and receiver design meets the specific requirements of the pipeline system.

Petrac's Pig Receiver And Launchers



Petrac's Pig Receiver and Launchers Design Considerations;

i) Size

ii) Material

iii) Valfs and Fittings

iv) Pressure Rating

v) Safety Features

vi) Accessibility

FIRE FIGHTING SYSTEMS

Petrac has different fire fighting systems specilized for refirenery equipments. These products are;

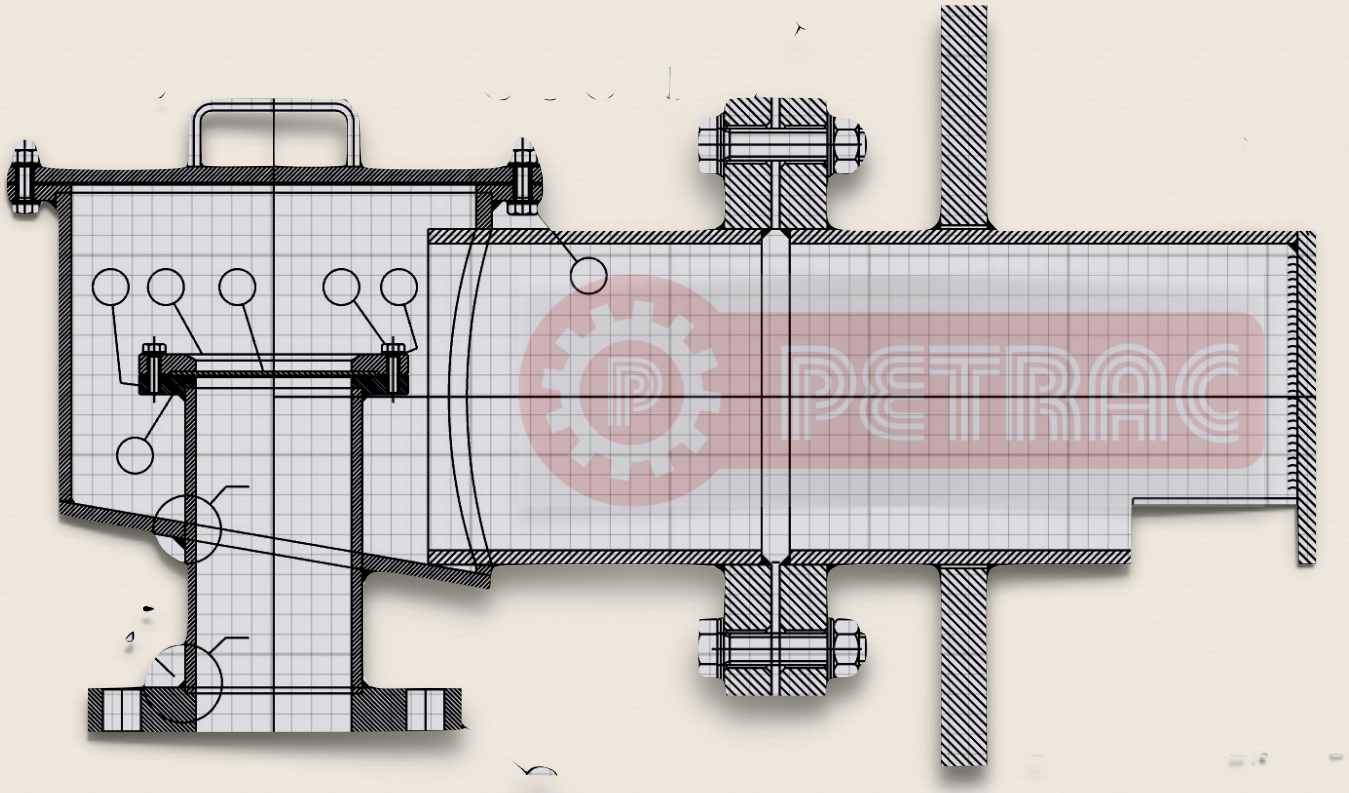
a) Foam Maker
b) Foam Fuse
c) Foam Launcher
d) Foam Mixers
e) Sprinklers
f) Tank Roof Cooling Sprinkler

Petrac's one of the top selling fire fighting product is Foam Makers. A foam maker, also known as a foam generator, is a device that is used to create foam for firefighting applications. Foam makers are typically used in combination with water and specialized foam concentrate to produce a thick, foam-like substance that is highly effective at extinguishing fires.

Foam makers are commonly used in a variety of applications, including industrial fire protection, oil and gas production, and aircraft firefighting. They may be installed as a fixed system or used as a portable device, depending on the specific needs of the application.

FIRE FIGHTING SYSTEMS: FOAM MAKER

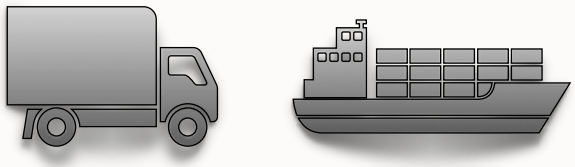
Overall, foam makers are an essential tool for firefighting and industrial safety, providing an effective means of extinguishing fires and protecting personnel and property from damage.



Petrac's Foam Makers can be customized according to the customers needs in terms of sizes and applications.

Sizes: 3"x6" and 4"x8"

Petrac's Foam Maker



LOADING ARMS

Loading arms are specialized equipment used in various industries, such as oil and gas, chemical, and food and beverage, to transfer liquids or gases from a storage tank or railcar to a transportation vehicle.

Loading arms are typically designed to be flexible and maneuverable, and can be extended or retracted to reach the vehicle being loaded. They are typically made of materials such as carbon steel, stainless steel, or aluminum, and can be fitted with a range of components, such as swivel joints, flow meters, and control valves, to optimize the loading process.

Different types of loading arms are available for specific applications, such as **top loading arms, bottom loading arms, and marine loading arms**. Top loading arms are mounted on the top of a tank or railcar, while bottom loading arms are mounted at the bottom of a tank or railcar. Marine loading arms are used to transfer liquids or gases between a marine vessel and a storage facility or terminal.

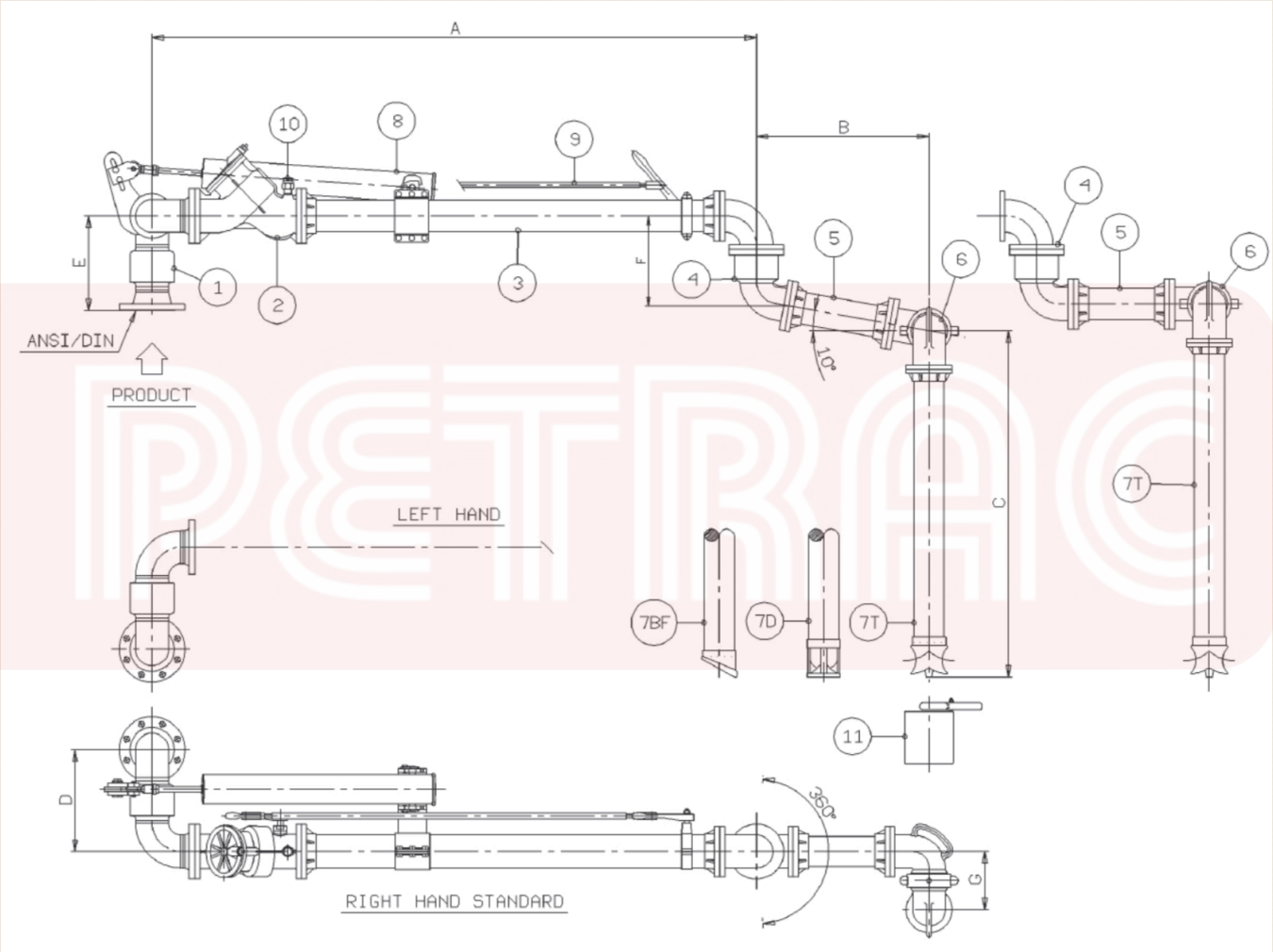
Loading arm types;

Top Loading Arms

Bottom Loading Arms

LOADING ARMS WITH SWIVEL JOINTS:TOP TRUCK LOADING ARMS

Proper installation and maintenance of loading arms are important to ensure safe and efficient loading operations. It is recommended to follow the PETRAC's guidelines and relevant regulations to prevent accidents and ensure compliance with industry standards.



Petrac's Top Truck Loading Arms

WE DESIGN

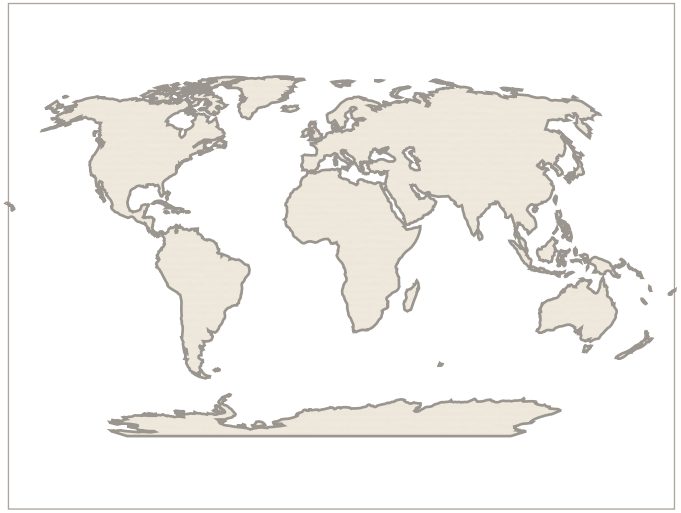
WE MANUFACTURE

WE MAINTAIN

WE INSTALL

AND

WE DELIVER



PETRAC

PETRAC
FOR THE NEXT GENERATION OF ENERGY
WWW.PETRAC.COM.TR
İNFO@PETRAC.COM.TR

ATEX
CERTIFICATED

ISO 9001 2015 CERTIFIED

ENVIRONMENTAL MANAGEMENT SYSTEM
ISO 14001

info@petrac.com.tr

www.petrac.com.tr