

GPE PETRO ENERGY CO.

Engineering, Procurement,
Construction of Oil, Gas,
Petrochemical, Offshore, Marine
& Power Plant Projects

Strainers &
Quick opening closure

2024



Strainer

> Basket Type (Welding Pressure Vessel)

- Model No.: 4510
- Size: 2 in – 64 in
- Pressure Class: 150#, 300#, 600#, 900#, 1500#, 2500#



> Application

Basket strainers are used in nearly every industry to protect equipment (valves, pumps, meters, and spray nozzles) and to ensure product purity (gas, petroleum, paper, and food processing). This type of strainer is an inexpensive design that is used in applications where the flow can be interrupted for basket cleaning. This type of strainer is installed in a pipeline to remove unwanted solids from fluids or gases. Straining is accomplished by directing the fluid through a basket where debris is trapped on the inside of a screen element and clean fluid flows through the outlet. Basket strainers are available in standard or custom designs. Fabricated designs are not limited to existing patterns or foundry capabilities and are especially superior for corrosive, hazardous, or low specific gravity fluid applications. These series can be custom designed in many configurations and materials for unusual conditions or critical applications.

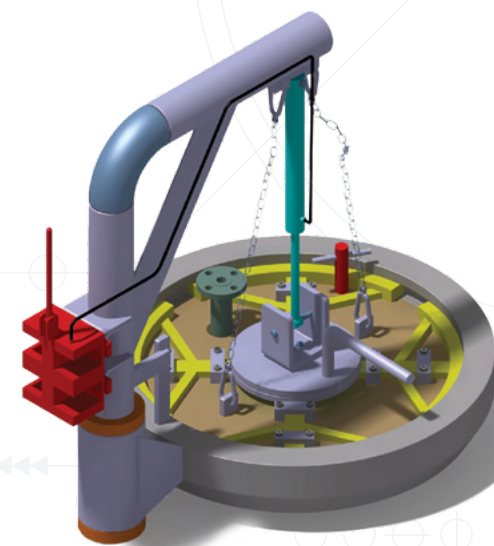
> Features and Benefits

- Large range of materials are available
- Easy installation and safe operation
- Based on ASME section VIII Div. 1 and 2
- Easy to maintain
- Easy to clean the filter

Quick Opening Closure

> Horizontal and Vertical Type (Mechanical and Hydraulic)

- Model No.: 4000
- Size: 6 in – 52 in
- Pressure Class: 150#, 300#, 600#, 900#, 1500#, 2500#



> Application

This innovative closure system is safe and easy to operate and may be used in a broad range of applications. Operation of the closure can be accomplished by one person without the use of tools. The integration of the safety lock, locking mechanism and door handle into the door provides a compact and efficient design. To open the door, the safety lock must first be moved from its stowed position. Then, the handle requires only a quarter turn. As a result, this closure system is an integrated twin locks system. The internal components of the locking mechanism are protected by a stainless steel plate to protect them from rust.

> Features and Benefits

- Easy and safe to operate
- Easy to maintain
- Compliant with applicable pipeline codes and standards
- Readily available
- Competitively priced

Strainer

> Basket Type (Integrated Casting Body)

- Large range of materials are available
- Easy installation and safe operation
- No welding is applicable
- Easy to maintain
- Easy to clean the filter



> Application

Basket strainer filters are of simple and robust cast construction with in line connections and can be used in liquids and gases. Basket type is for general applications where the process flow is intermittent and can be stopped for element cleaning. Strainers provide protection for your pumping system with low pressure drop. The inclined position of the strainer basket adjacent to the porting provides smooth flow patterns not found in conventional basket-type strainers. The basket is removed from the top of the strainer, possibly eliminating the need to completely drain the system or allowing foreign matter to drop back into the line when the strainer is cleaned. The relatively small port-to-port dimensions of the strainer allow easy installation. Strainers are designed with a tapped port in the lid to easily attach an air eliminator. Strainers are also equipped with a bottom drain plug for complete draining of strainer if needed. They are also equipped with pressure indicator ports.

> Features and Benefits

- Large range of materials are available
- Easy installation and safe operation
- No welding is applicable
- Easy to maintain
- Easy to clean the filter

Strainer

> Y- Type

- Model No.: 4530
- Size: 12/ in – 36 in
- Pressure Class: 150#, 300#, 600#, 900#, 1500#, 2500#



> Application

GPE Y strainers are used in a wide variety of liquid and gas straining applications to protect downstream process system components in many industrial applications. Water handling applications-where it's important to protect equipment that could be damaged or clogged by unwanted sand, gravel or other debris-commonly use Y strainers. Y strainers are devices for mechanically removing unwanted solids from liquid, gas or steam lines by means of a perforated or wire mesh straining element. They are used in pipelines to protect pumps, meters, control valves, steam traps, regulators and other process equipment. Screens are manufactured with perforated plate in the materials and with the perforation specified in the relevant tables. Screens with different perforation (or wire mesh) and materials may be manufactured on request.

> Features and Benefits

- Large range of materials are available
- Easy installation and safe operation
- Small overall dimensions
- Easy to maintain
- Easy to clean the filter
- Available in welding or flanged connection

Strainer

> T-Type

- Model No.: 4520
- Size: 2 in – 64 in
- Pressure Class: 150#, 300#, 600#, 900#, 1500#, 2500#



> Application

GPE standard strainers are equipped with screens for the average service of most mediums (steam, gas, air, oil, chemicals, etc.). The large screen open area ensures an efficient filtering action with a low pressure drop. Filtering area to inlet area ratio is larger than 3 to 1. Screens are manufactured with perforated plate in the materials and with the perforation specified in the relevant tables. Screens with different perforation (or wire mesh) and materials may be manufactured on request.

> Features and Benefits

- Large range of materials are available
- Easy installation and safe operation
- Small overall dimensions
- Easy to maintain
- Easy to clean the filter
- Available in welding or flanged connection

Strainer

> Conical Type

- Model No.: 4540
- Size: 3/4 in – 24 in
- Pressure Class: 150#, 300#, 600#, 900#, 1500#, 2500#



> Application

GPE conical type temporary strainers are designed for the efficient removal of solids in new pipeline start up service. They are compact and rugged and can be installed either vertically or horizontally. They can be manufactured using any kind of wire mesh or perforated plate, in carbon and stainless steel or exotic alloys. Given dimensions are for reference purposes only. Strainers may be manufactured to any customer's standards. Strainers are designed to be installed between ANSI B16.5 flanges to meet FF, RF and RTJ flanges.

> Features and Benefits

- Large range of materials are available
- Easy installation and safe operation
- Small overall dimensions
- Easy to maintain
- Easy to clean the filter



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