

Permanent Strainer-Duplex**Product Coding**
P4105XXXXX**Introduction**

Duplex filter, also known as a dual vessel filter or twin filter unit, is a continuous operation filtration system that consists of two separate filter housings (vessels) connected by a valve arrangement. It allows one filter to be in service while the other is on standby or being cleaned, ensuring uninterrupted flow during maintenance.

Specifications

- **Two filter housings/vessels:** Each containing a basket, cartridge, or element for straining or filtering.
- **Changeover valve system:** Either a 3 way ball valve, butterfly valve set, or manifold with interconnecting piping that directs flow through one vessel at a time.
- **Common inlet and outlet connections:** The pipeline fluid enters the inlet, passes through one of the filters, and exits through the outlet.
- **Drain and vent valves:** For removing trapped air or draining liquid before maintenance.
- **Pressure gauges/differential pressure indicators:** To show the condition (clogging) of the filter element.

Features

- No shutdown required for cleaning or filter replacement
- Ideal for continuous flow
- Easy maintenance
- Longer equipment life
- Can be automated and motorized changeover valves for remote operations

Element Types

- Cartridge duplex filter
- Basket duplex filter
- Magnetic duplex filter
- Manual or automatic changeover

Applications

- Chemical processing
- Water treatment
- Oil and gas refineries and power plants
- HVAC



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