

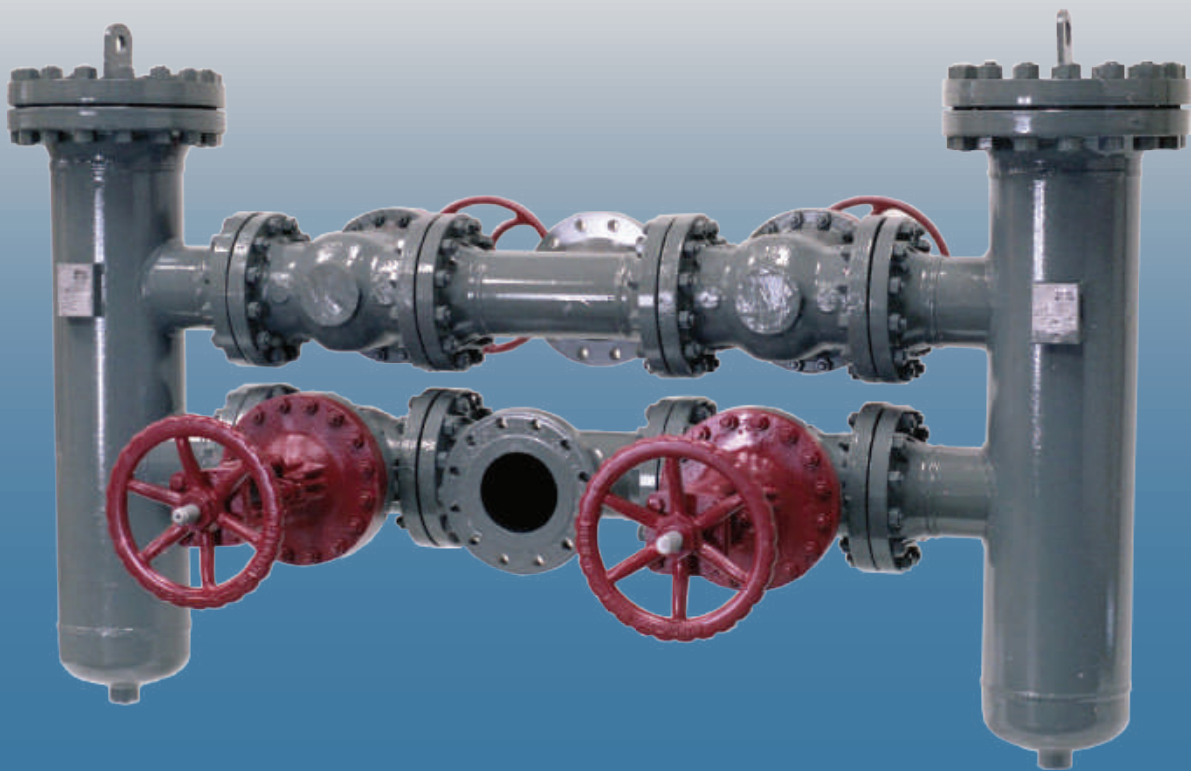


# Fabricated Duplex Strainers Type DU56

*When downtime is not an option!*

*Remove solid particulates from*

**Liquids • Gas • Steam**



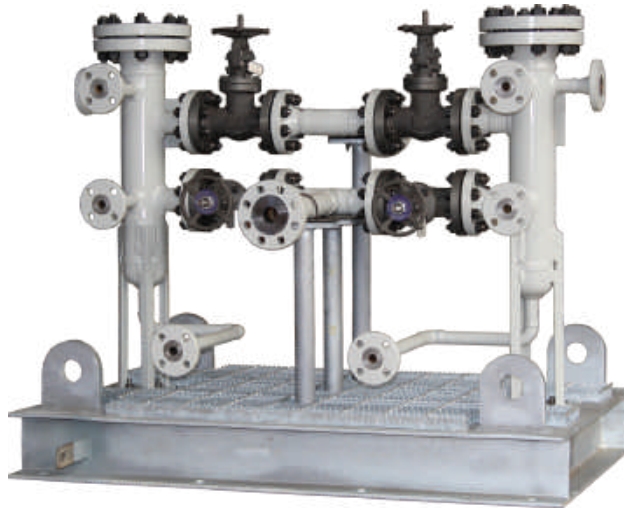
*Refining • Petrochemical • Power  
Oil & Gas*

**Protect Pumps, Compressors, Turbines, Meters,  
Mechanical Equipment**

**WINSTON / ROYAL GUARD CORPORATION**



# Fabricated Duplex Strainers Type DU56



The Type **DU56** fabricated heavy duty duplex strainers are the solution to continuous operation when downtime is not an option. The duplex assembly features two Type 56 strainers with modified inlet and outlet nozzle arrangements. The strainers can be skid-mounted complete with valves, as shown above, or specially designed, and shipped individually to accommodate field piping arrangements.

Duplex strainers are installed to protect compressors, pumps, meters, and other downstream equipment by removing potentially damaging solids from liquids, gas, and steam. The large internal basket offers a low pressure drop with a large contaminant holding capacity.

Applications include gas, chemicals, process liquids, liquid hydrocarbons, water, steam, and others in the refining, chemical, petrochemical, pulp and paper, and related industries. These fabricated strainers are extremely robust and provide heavy duty service to industries where a large basket is required for maximum containment of solid contaminants.

**Standard material** for the duplex strainer body and flanges is carbon steel with 304 stainless steel basket. Some available materials are 300 series stainless steels (all or wetted parts only), Monel<sup>®</sup> 400, Nickel 200, Hastelloy<sup>®</sup> B and C276, Inconel<sup>®</sup>, Incoloy<sup>®</sup>, and chrome moly. Except for chrome moly, the basket can be manufactured in any of these materials. The valves are per specification.

**The internal perforated strainer basket** is manufactured from heavy materials and seam welded for maximum strength.

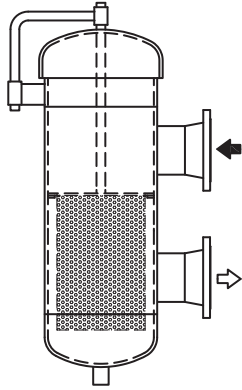
**A complete selection of perforated metal and wire cloth** is available for various openings and retention requirements, and in many alloy materials. Typical strainer basket openings are 80 mesh (0.0070" opening) for gas service, 40 mesh (0.0150" opening) for steam, and perforated with 1/8" diameter holes on 3/16" centers for process liquids. Strainer baskets will have perforated support for most wire mesh sizes. Wedge wire baskets can also be provided.

**The top cover** of each strainer is available as a bolted blind flange with lifting handle or davit, or a quick-opening closure for easier and faster access for basket cleaning.

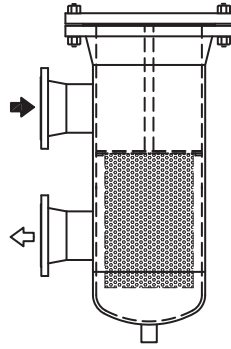


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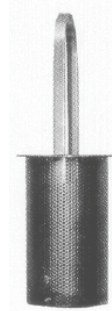
Individual Strainer with  
Quick-Opening Closure



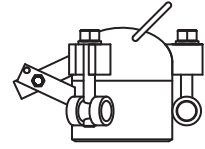
Individual Strainer with  
Flanged Cover



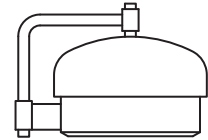
Type DU56 basket



Hinged Swing-Bolt  
Quick-Opening Closure  
For Lower Pressure Ranges



Threaded High Pressure  
Quick-Opening Closure



## Features:

- 1-1/2" to 24" and larger line sizes are available.
- Piping arrangements to suit each application.
- Rugged fabricated housings.
- Heavy duty strainer baskets.
- Commercially available valves (or field furnished).
- Strainer body support legs.

## Benefits:

- Easily switched between active and idle strainer bodies without flow interruption.
- Strainer housings are fabricated for long lasting service.
- Valves are heavy duty for continuous service and long life.
- Customer specified valves can be used for local parts inventory.
- Easily serviced with standard components, if and when necessary.
- Customer specified options are easily accommodated.

**Options include:** ASME Code stamped strainer bodies, top flange lifting davits, quick-opening closures for easier basket access, open bottom baskets for blowdown, differential pressure connections, vents, motorized valves, skid mounted, alloy materials, lifting eyes, and other customer requirements.

**ASME Code Certified:** Winston/Royal Guard is an ASME Section VIII, Division 1 Code certified manufacturing facility with National Board certification. Capabilities include all types of non-destructive testing with a rigidly controlled Quality Control system.

Specifications are subject to change without notice. 8-3-2021

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