DUAL-BALL DIVERTER DESIGN
This duplex is designed with two stainless steel balls that efficiently divert the pipeline flow from one basket chamber to the other. Teflon seats ensure a positive seal and help to prevent seepage into the chamber that is being serviced for cleaning.

EASY TO OPERATE
The Titan® FCI duplex strainer features a low torque, easy to operate handle that does not require a gearbox. Additionally, the handle’s position clearly indicates which basket is in service and which basket can safely be removed for cleaning.

REDUCED “IN-LINE” MAINTENANCE
Titan’s duplex has numerous attributes that help reduce maintenance during cleaning operations. First, the dual ball design isolates each chamber and keeps the servicing chamber dry during cleaning. There are also no special tools required to access and remove the straining element from the chamber. Lastly, the duplex provides cover vents, drain plugs, and foot pads on each chamber.

ENDLESS SCREEN OPTIONS
This strainer can be fitted with virtually any configuration of perforation or mesh lined straining elements. Straining elements can also be constructed from special materials such as alloy 20.

MODEL: DS 596-CS
(Threaded - Carbon Steel)

DS 596-SS
(Threaded - Stainless Steel)

DS 696-CS
(Flanged - Carbon Steel)

DS 696-SS
(Flanged - Stainless Steel)

SIZE RANGE: 3/4” ~ 4”

TECHNICAL

PRESSURE/TEMPERATURE RATING (1)
CARBON STEEL - A216 GR. WCB - CLASS 150

WOG (Non-shock): 285 PSI @ 100 °F

STAINLESS STEEL - A351 GR. CF8M - CLASS 150

WOG (Non-shock): 275 PSI @ 100 °F

1. The above listed temperatures are theoretical and may vary during actual operating conditions.
2. Max and min temperatures are for reference only. Prolonged use at these temperatures is not recommended for optimal service life.

APPLICATIONS

General Application: The duplex strainer is a unique product within the pipeline industry. Like other basket strainers, the duplex strainer protects expensive downstream equipment by mechanically removing solids from flowing fluids via a perforated, mesh, or wedge wire straining element. However, the duplex strainer is designed with two basket chambers and a flow diverter system that allows the pipeline flow to be switched from one chamber to the other, completely isolating the flow to a single chamber. This makes the duplex strainer ideal for non-interruptible applications that cannot be shut down during routine maintenance and cleaning operations.

Ball-Type Duplex Strainers are not recommended for slurry and fibrous content applications.

The above data represents common market and service applications. No representation or guarantee, expressed or implied, is given due to the numerous variations of concentrations, temperatures and flow conditions that may occur during actual service.

TITAN® FLOW CONTROL, INC.
YOUR PIPELINE TO THE FUTURE!
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290 Corporate Drive ♦ PO Box 7408 ♦ Lumberton, NC 28358
**BILL OF MATERIALS**

<table>
<thead>
<tr>
<th>No.</th>
<th>Part Description</th>
<th>Material</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Main Body / Basket Housing</td>
<td>Carbon Steel</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>2</td>
<td>Straining Element (3)</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>3</td>
<td>Cover</td>
<td>Carbon Steel</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>4</td>
<td>Ball</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>5</td>
<td>O-Ring Straining Element</td>
<td>Buna-N</td>
<td>Viton</td>
</tr>
<tr>
<td>6</td>
<td>Seat</td>
<td>Teflon (PTFE)</td>
<td>Teflon (PTFE)</td>
</tr>
<tr>
<td>7</td>
<td>Seal</td>
<td>Buna-N</td>
<td>Viton</td>
</tr>
<tr>
<td>8</td>
<td>O-Ring Body</td>
<td>Buna-N</td>
<td>Viton</td>
</tr>
<tr>
<td>9</td>
<td>Handle</td>
<td>Carbon Steel</td>
<td>Carbon Steel</td>
</tr>
</tbody>
</table>

1. Bill of Materials represents standard materials. Equivalent or better materials may be substituted at the manufacturer's discretion.
2. Aluminum Bronze and Cast Iron units are also available.
3. Denotes recommended spare parts.

**SCREEN SELECTION GUIDELINES**

- Size: 3/4” ~ 4”
- Liquid: 1/16 (.0625)
- Open Area: 41%

**PRESSURE - TEMPERATURE RATING**

<table>
<thead>
<tr>
<th>ASME Class 150</th>
<th>DS596/696-CS</th>
<th>DS596/696-SS</th>
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<tbody>
<tr>
<td>WOG (Non-shock)</td>
<td>285 PSI @ 150 °F</td>
<td>275 PSI @ 100 °F</td>
</tr>
</tbody>
</table>

1. Max and min temperatures are for reference only. Prolonged use at these temperatures is not recommended for optimal service life.
2. Contact factory for use above 200 °F.

As Titan product changes occur, there may be short-term differences between actual product specifications and the information contained within our literature. Titan FCI reserves the right to make design and specification changes to improve our products without prior notification. When required, request certified drawings. Titan FCI is a registered trademark of Titan Flow Control Incorporated.