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# Y Strainer

Model : BT 5350F / BT 5350G

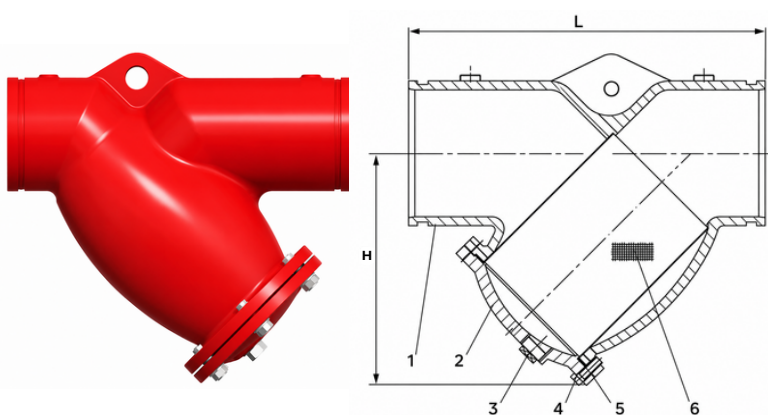
## Description:

BT 5350 Y-Strainer is a high-performance mechanical filter designed to remove solids from flowing liquids, steam, or gases to protect critical downstream equipment like pumps, control valves, and meters.

Engineered for reliability, these strainers ensure a clean, unobstructed water flow for maximum system efficiency

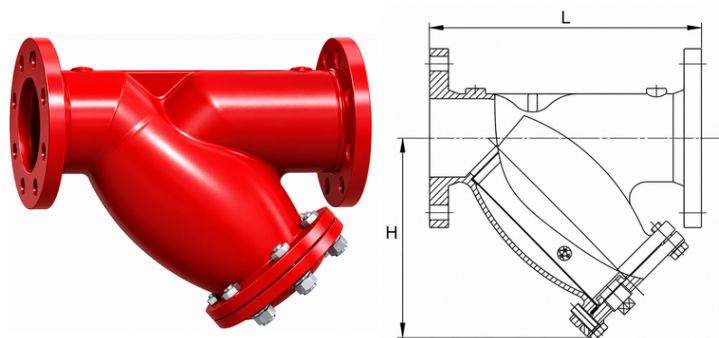
## Specifications:

|                          |                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------|
| Size                     | DN65 - DN300 (2 ½" - 12")                                                                                       |
| Maximum Working Pressure | 20.7 bar (300 psi)                                                                                              |
| Temperature Range        | 0° C to 80°C ( 32°F to 176°F)                                                                                   |
| Approvals                | UL 321 Listed                                                                                                   |
| End Connection           | Standard Supply - ANSI Class 150RF / Grooved Ends to AWWA C606 Standard.<br>* - Optional ANSI Class 125 / PN 16 |
| Coating                  | FBE Coating in accordance with ANSI / AWWA C550.<br>Average Coating Thickness 250 Microns                       |



## Material Specification

| Item | Part Name         | Material        | ASTM Specification  |
|------|-------------------|-----------------|---------------------|
| 1    | Body              | Ductile Iron    | A536 Grade 65-45-12 |
| 2    | Cover             | Ductile Iron    | A536 Grade 65-45-12 |
| 3    | Plug              | Malleable Iron  | A47 Grade 22010     |
| 4    | Body/Cover Bolt   | Carbon Steel    | A307 Grade B        |
| 5    | Body/Cover Gasket | PTFE/Graphite   | Commercial          |
| 6    | Screen            | Stainless Steel | A276 Type 304       |



## Dimensions:

| Order Code              | DN  | INCH | Flanged     |             | Grooved     |             | H (mm/inch) | Drain Plug Size (inch) |
|-------------------------|-----|------|-------------|-------------|-------------|-------------|-------------|------------------------|
|                         |     |      | L (mm/inch) | Weight (Kg) | L (mm/inch) | Weight (Kg) |             |                        |
| BT-5350-065-300-RF / GG | 65  | 2½"  | 273/10.75   | 12          | 285 / 11.25 | 7.8         | 202 / 7.95  | 1"                     |
| BT-5350-080-300-RF / GG | 80  | 3"   | 295/11.63   | 15.5        | 318 / 12.50 | 9.7         | 220 / 8.66  | 1"                     |
| BT-5350-100-300-RF / GG | 100 | 4"   | 352/13.88   | 23.5        | 375 / 14.75 | 13.6        | 256 / 10.08 | 1"                     |
| BT-5350-125-300-RF / GG | 125 | 5"   | 416/16.38   | 38          | 448 / 17.63 | 26.4        | 332 / 13.07 | 1- ¼"                  |
| BT-5350-150-300-RF / GG | 150 | 6"   | 470/18.50   | 48.5        | 502 / 19.75 | 34.5        | 370 / 14.57 | 1- ½"                  |
| BT-5350-200-300-RF / GG | 200 | 8"   | 543/21.38   | 79          | 640 / 25.20 | 84          | 465 / 18.31 | 1- ½"                  |
| BT-5350-250-300-RF / GG | 250 | 10"  | 660/26.00   | 119         | 710 / 28.00 | 97          | 532 / 20.94 | 2"                     |
| BT-5350-300-300-RF / GG | 300 | 12"  | 770/30.31   | 185         | 779 / 30.67 | 130         | 616 / 24.25 | 2"                     |

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### Installation :

Before installing the Y-strainer, ensure its pressure rating is correct for your system. Thoroughly clean all pipe areas and leave the ends exposed to prevent sealant from entering the piping. This product can be installed in either a horizontal or a vertical-down position.

### Operation & Maintenance :

After the system's initial run, blow down the strainer to clear any debris from the installation. Follow this procedure as a regular maintenance routine, with the frequency depending on your site operating conditions.

In absence of a blowdown valve, clean the unit by removing the screen and screen retainer. The strainer screen should be inspected once or twice a year, and we recommend keeping one spare screen and three gaskets in stock for each unit.

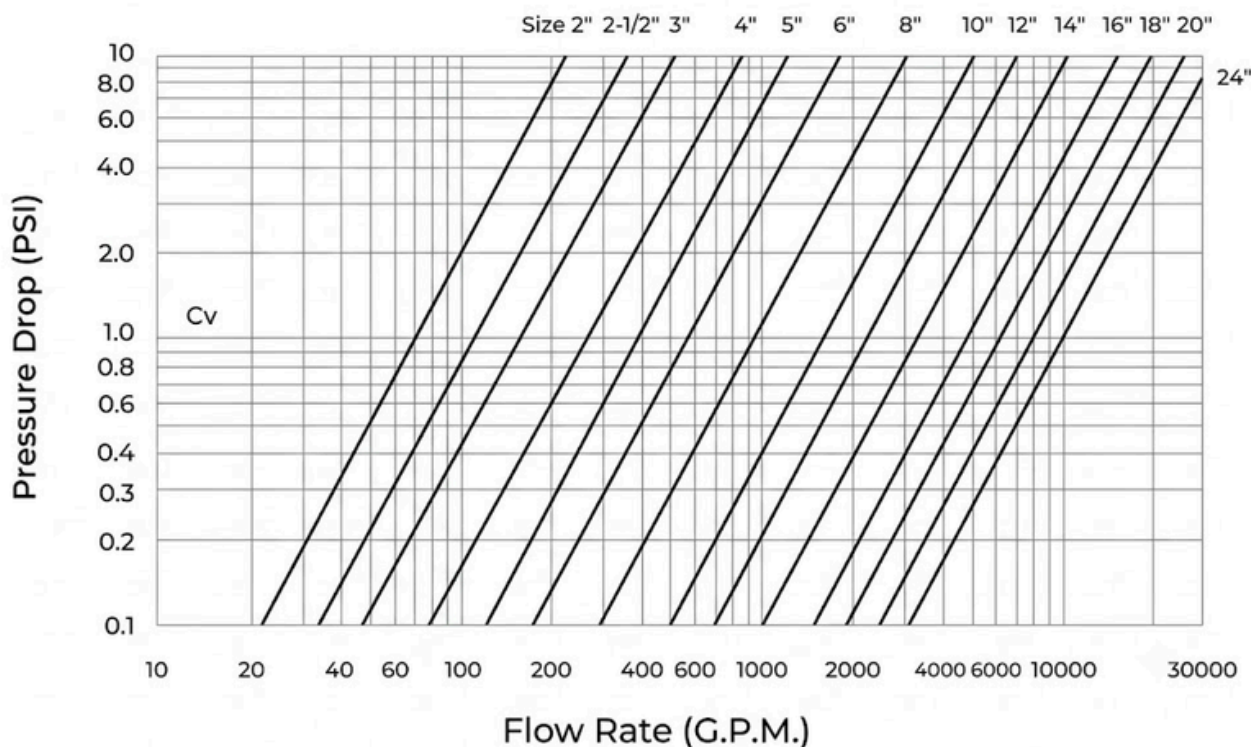
### Caution :

Always isolate the strainer from the pressurised system before opening it for cleaning. Use a new gasket whenever you reassemble the strainer and ensure you are protected from potentially hazardous liquids during disassembly.

### Standard Screens :

| Size (Inch) | Hole Diameter | Free Flow Area Opening |
|-------------|---------------|------------------------|
| 2.5"        | 3.0/0.12      | 53.60%                 |
| 3" to 5"    | 4.3/0.17      | 55.43%                 |
| 6" to 12"   | 6.0/0.24      | 63.00%                 |

### Pressure Vs Flow Rate Graph :



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