

**BLAZE**

Basket Strainer

Model : BT 5351

Description :

The BT 5351 Basket Strainer is designed to remove dirt, debris and other solid contaminants from fire protection and water distribution systems, helping to protect valves, pumps and other downstream equipment. Its large stainless steel basket provides a high filtration area with low pressure loss, ensuring efficient flow and reliable system performance. The robust ductile iron construction, combined with an internal and external Fusion Bonded Epoxy (FBE) coating, delivers excellent corrosion resistance and long service life.

Specifications :

Size	DN 80 to DN 300 (3" - 12")
Maximum Working Pressure	13.8 bar (200 psi)
Temperature Range	0° C to 80°C (32°F to 176°F)
End Connection	ASME B16.1 Class 125 or EN 1092-2 PN10 / 16.
Approvals	UL 321 Listed
Design Standard	Meets or Exceeds AWWA C508 Standard
Coating	FBE Coating in accordance with ANSI/AWWA C550. Average Coating Thickness 250 Microns

Features :

- Recessed seat in body assures accurate screen alignment.
- Round holes with 60 degrees staggered.
- Excellent flow characteristics and low pressure losses at high flow rates

Options :

Spray Painted Finish.

Material Specification :

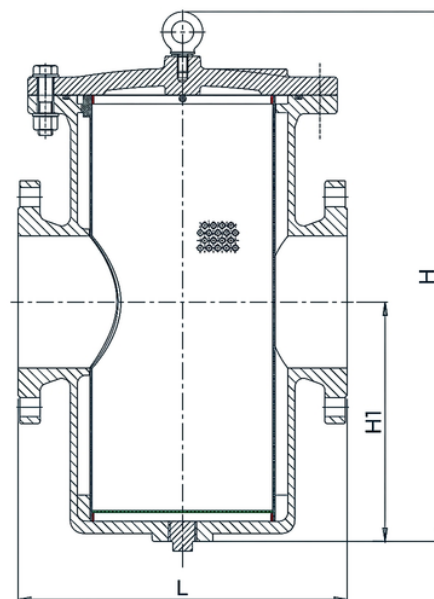
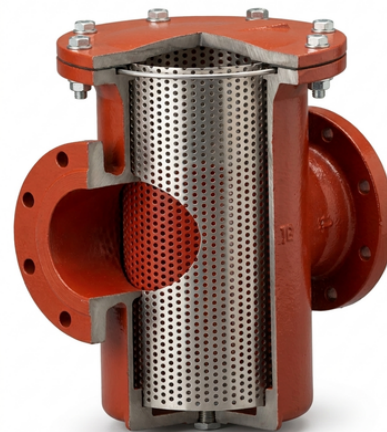
Part	Material	ASTM Specification
Body	Ductile Iron	A536 Grade 65-45-12
Cover	Ductile Iron	A536 Grade 65-45-12
Screen	Stainless Steel	A276 Type 304
Body/Cover Gasket	Rubber EPDM	D2000
Body/Cover Bolts	SS	Grade A70
Plug	Malleable Iron	A47 Grade 22010

Standard Screens (mm/inch) :

3.2mm (1/8") hole diameter and 37.15% free flow area opening.

Dimensions :

Size	L (mm / Inch)	H (mm / Inch)	H1 (mm / Inch)	Plug Size
3"	250 / 9.85"	318 / 12.50"	152 / 6.00"	3/4"
4"	292 / 11.50"	480 / 19.00"	203 / 8.00"	1"
5"	340 / 13.40"	520 / 20.50"	230 / 9.00"	1"
6"	378 / 14.88"	620/25.00"	280 / 11.00"	1"
8"	475 / 18.70"	700 / 27.50"	306 / 12.00"	1 ½"
10"	560 / 22.00"	775 / 30.50"	358 / 14.00"	1 ½"
12"	680 / 26.75"	965 / 38.00"	462 / 18.00"	2"

**BLAZETECH SYSTEMS LTD.**

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Pre-Installation :

- Inspect the Unit properly for any damages during shipping / transportation.
- Install the strainer only in horizontal piping systems and Match the flow arrow mark with the direction of fluid
- Ensure the basket chamber is facing downwards
- Leave enough vertical clearance below the unit to pull the basket straight down during maintenance.

Installation :

- Proper alignment is critical when mounting the strainer to prevent localised mechanical stress and avoid cracking the cast body. Line up the matching pipeline counter-flanges carefully and insert centered gaskets before introducing any hardware.
- Always tighten the flange bolts in a crosswise, diagonal pattern.
- Apply torque evenly to ensure a uniform seal across the flange face.

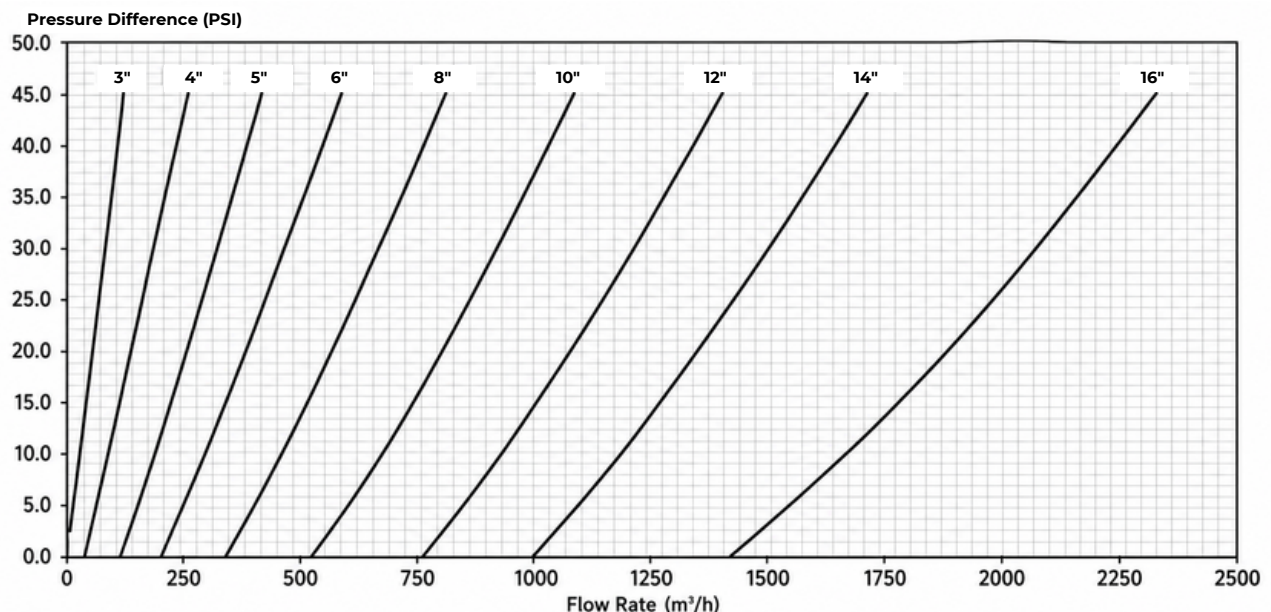
Commissioning / Initial Operation :

- When introducing fluid into the system, the strainer must be pressurized slowly to prevent dangerous water hammers that can rupture the internal stainless steel screen. Use the vent plug on the cover to safely bleed trapped air from the chamber.
- Crack the top vent plug open slightly when initially filling the line.
- Open the upstream system valve slowly to fill the basket.
- Close the vent once liquid emerges steadily, then fully open the downstream valve.

Preventive Maintenance :

- The strainer basket requires regular cleaning when the pressure drop increases or during routine system inspections. Always isolate the unit from line pressure and completely drain the fluid before attempting to open the cover.
- Close both the upstream and downstream valves to isolate & secure the pipeline.
- Open the bottom drain plug to bleed off all residual pressure.
- Remove the cover bolts, using the built-in lifting eyebolt for larger, heavy models.
- Pull the basket straight out and flush debris outward using a high-pressure hose without hammering the mesh.
- Re-seat the basket properly, inspect or replace the cover O-ring, and bolt the cover back down in a star pattern.

Pressure Loss V/s Flow :

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