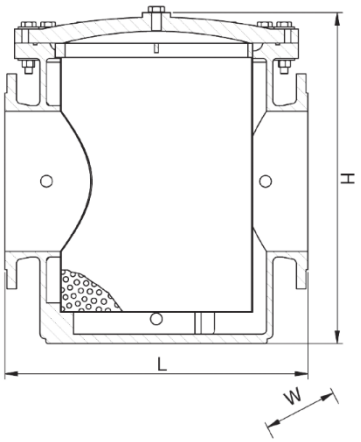
CORVALVE

# STRAINER – BASKET TYPE

**Description:** Corvalve's Basket Type Strainers are vital for protecting pipeline systems from unwanted solid contaminants. They work through a perforated or wire mesh basket-shaped element, suitable for both sewage and clean water, given the right material choice. Their large straining capacity ensures effective dirt accumulation, promoting efficient operation.




## Application:

Strainers are used to collect residuals from the system. They are installed in the upstream of crucial devices such as regulation valves, watermeters, flow meters etc. to protect them from residuals

## Features:

- **Simplified Maintenance:** The design incorporates a cover assembly that facilitates easy cleaning, ensuring efficient product upkeep.
- **Accessory Availability:** An optional pivot arm accessory can be requested, designed to ensure hassle-free cover movement and reduce manual effort.
- **Effective Purging Mechanism:** The product features a blow-off plug. This unique component is designed specifically for flushing the filter, promoting its optimal operation and longevity.
- **Diverse Material Options:** We offer a variety of filter material options, including SS304, SS316, SS304L, and SS316L. These provide a broad range of solutions to cater to various operating environments and user requirements.
- **Flexible Mesh Size Options:** We offer various filter mesh sizes to cater to diverse filtering needs. This flexibility allows users to choose a mesh size that best fits their specific requirements.


Phone
+90 216 306 40 44

Email
export@corvalve.net

Mobile/Whatsapp
+90 542 306 40 43

Fax
+90 216 306 40 44

Address
Soğanlık Yeni Mah.
Atatürk Cad.No:6/1
Else Apt.Daire:9,34880
Kartal/İstanbul

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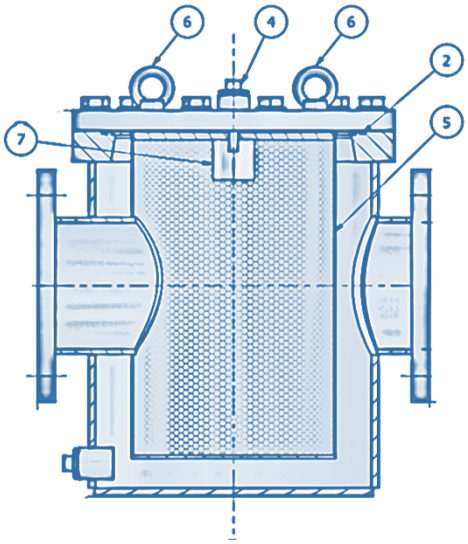
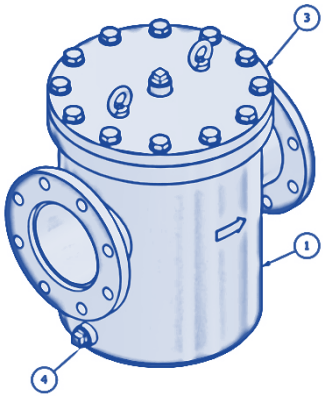
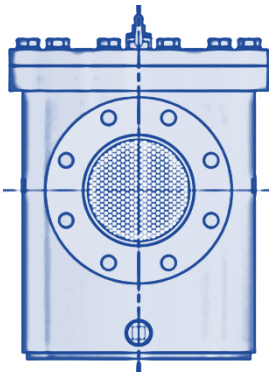
## Construction



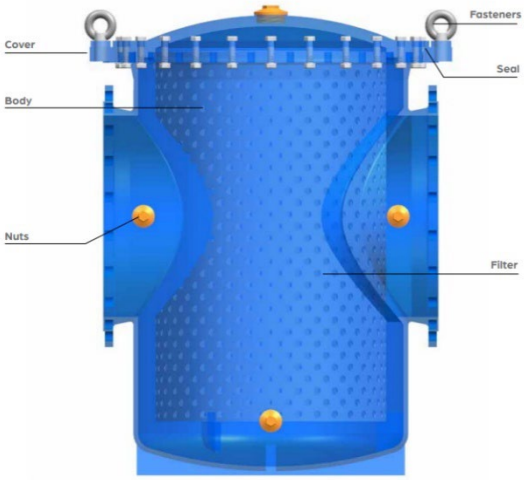



| PART NO. | PART |
|---|---|
| 1 | Body |
| 2 | Gasket |
| | |
| 3 | Top |
| 4 | Draining |
| 5 | Strainer |
| 6 | Lifting Device |
| 7 | Anode Alloy |

## Material Specification

| Parts | Main Materials | Optional Materials |
|---|---|---|
| | | |
| Body Cover | Ductile Iron | Carbon Steel |
| | | Stainless Steel |
| | | Nickel Aluminum Bronze |
| Filter | SS304 | SS304L, SS316, SS316L |
| Nuts | Bronze | Brass, SS 304, SS 316 |
| Seals | EPDM | NBR |
| Fasteners | 8:8 (Galv.) | SS 304, SS 316 |





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## Benefits of Basket Type Strainer

- **System Integrity:** Protects key infrastructural elements like valves, pumps, and metering equipment from particulate contaminants.
- **Operational Versatility:** Suitable for both waste and potable water systems, given the selection of appropriate materials.
- **Enhanced Capacity:** Large debris accumulation capability due to substantial straining volume.
- Operational Efficiency: Facilitates uninterrupted pipeline operations by effectively filtering out residue and particulate matter.
- **Robust Construction:** Industrial-grade build ensures prolonged service life, minimizing maintenance and replacement costs.

## Pre-Installation:

1. **Cleaning:** Carefully remove any preservatives using cloths dampened with an appropriate solvent. Always exercise caution when using solvents and adhere to the manufacturer's instructions.
2. **Strainer Rating Verification:** Confirm that the strainer's rating is equal to or exceeds the maximum pressure and temperature of the intended installation site.
3. **Strainer Cover Opening:** For the bolted cover model, remove the cover nuts to open the strainer cover. For the quick opening cover model, loosen the bolt nuts. Subsequently, lift or swing the cover away until it is clear of the basket well, and then remove the basket.
4. **Preparation for Installation:** Discard all flange/nozzle protectors. Inspect the interior of the body for any loose or foreign material that might be carried downstream when fluid is introduced. Remove any such material and replace the basket.
5. **Closing the Cover:** Reverse the above cover opening procedure to close the cover. Ensure that the sealing surfaces are clean and the gasket or O-ring is correctly seated before tightening the cover hardware.

## Operating Principles:

Once the installation process is complete, the Basket Type Strainer requires no additional operational inputs. However, to safeguard the integrity of the strainer and extend its longevity, it is recommended to implement a gradual system startup. By avoiding a sudden shock to the strainer, this method ensures the strainer can efficiently perform its function of filtering unwanted solids and particulates from the system, thus enhancing overall system performance and durability.

## Installation:

1. **Positioning:** Install the strainer upstream of the equipment to be protected in the pipeline, designed specifically for horizontal applications.
2. **Location:** Choose a location that allows easy access to the drain and room for screen removal for simpler maintenance.

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3. **Support:** Use pipe supports to secure the existing pipeline near the inlet and outlet connections before installing the strainer.

4. **Placement:** Insert the strainer into the pipeline, ensuring its alignment corresponds with the pipeline flow direction, as indicated on the strainer body. Install flange gaskets between the strainer and the pipeline flanges on both sides.
5. **Bolting:** Use lubricated flanged bolts and hand tighten initially. Ensure bolts are tightened in a star or crisscross pattern for evenly distributed load.

**Maintenance:** Basket Type Strainers require periodic cleaning to remove accumulated debris and residues. Their design facilitates easy cleaning by simply removing the cover and taking out the strainer basket.

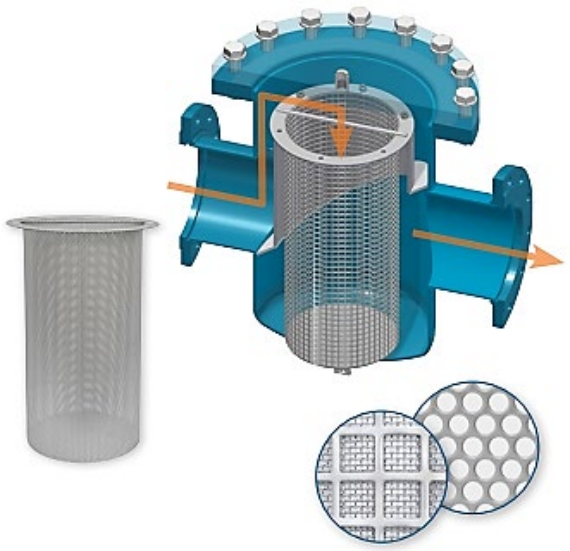
**Material Choices and Sizes:** The standard filter material is perforated SS304, but options such as SS316, SS304L, or SS316L are available. Different mesh sizes can be chosen to meet specific project requirements.

**Pressure Indicators:** These strainers feature two manometer connections for pressure monitoring, allowing operators to assess filter cleanliness through head loss measurement. Factory-installed manometers are optional.

**System Safeguard:** Installed to protect key system components like pumps and control valves, Basket Type Strainers collect and remove pipeline debris. High head loss indicates a need for cleaning, easily done by removing the top flange.

**Notes:**

1. Different flange drillings are available, including ISO, EN, ANSI, and others.
2. The standard operating temperature range is -10°C to +80°C.
3. All RAL Colors are available.
4. Potable water certified coating is available.
5. Both thermoset and thermoplastic coatings are available.



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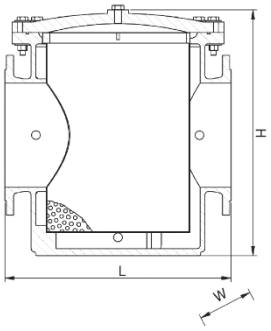


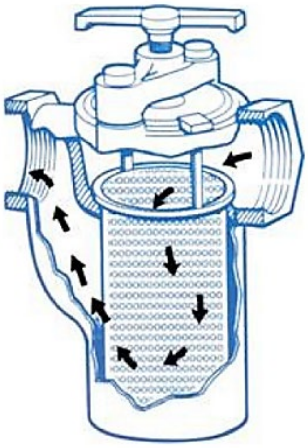

## DIMENSIONS (mm)

| DN | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1600 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Height | 368 | 421 | 473 | 581 | 701 | 728 | 825 | 921 | 1042 | 1127 | 1388 | 1583 | 1755 | 2579 | 2930 | 3560 |
| Width | 280 | 323 | 365 | 435 | 529 | 607 | 641 | 675 | 742 | 820 | 945 | 1088 | 1230 | 1490 | 1750 | 2300 |
| Length | 330 | 360 | 390 | 460 | 530 | 630 | 690 | 750 | 810 | 880 | 1000 | 1130 | 1250 | 1500 | 1800 | 2400 |
| Blow-off Nut Size | 32 | 32 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Filter Mesh Size | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Weight (kg) | 42 | 56 | 73 | 122 | 179 | 264 | 305 | 335 | 390 | 569 | 962 | 1460 | 1896 | 2040 | 2690 | 5380 |


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