

## SBL-III Series

### ● DESCRIPTION

SBL-III high-low inlet and outlet flat bottom basket strainer (often abbreviated as blue strainer) belongs to pipeline coarse filtration equipment, which is installed at the front end of pipeline, pump inlet and in front of valve to intercept solid particles, welding slag, rust, fibers and sundries in fluid and protect back-end pumps, instruments, heat exchangers, hydraulic components and other equipment. The connecting pipes on both sides of the whole body are one high and one low (generally, they enter from the bottom and exit from the top), and are composed of a cylinder, an upper cover, a filter basket, a sealing gasket, an inlet and outlet flange, a thread opening, a lifting ring and a quick-opening rocker arm. The inner core filter element is a metal basket, which can be used as a single-layer and double-layer composite strainer screen, which is convenient to disassemble and clean.

### ● WORKING PRINCIPLE

The medium enters the outer side of the cylinder from the low inlet and passes through the filter basket from the outside to the inside, and the sediment, welding slag and particles are trapped on the outer wall of the strainer screen; Large impurities settle on the bottom of the flat-bottomed cylinder by their own weight, and clean fluid flows upward from the high-level outlet. After the pressure difference rises, release the pressure, open the cover and lift it out of the filter basket for cleaning, and the bottom drain plug can regularly discharge the deposited sludge.

### ● FEATURES

1. High and low flow channels+flat bottom settlement, impurities fall to the bottom of the drum first, which reduces the attachment of the filter screen, and has a large pollution holding capacity and a longer cleaning cycle.
2. The circulation resistance is small, and the filtering area of the cylindrical filter basket is large, which is suitable for high impurity and large flow media.
3. The maintenance is simple, the top lifting ring can be directly taken out of the filter basket, the flat bottom has no dead angle, and the sewage discharge and washing are convenient.
4. Adapt to the limited pipeline, and adapt the high and low nozzles to the dislocation installation of the pipeline on site, without additional elbow to change the pipeline.
5. The sealing performance is reliable, and the upper end of the filter basket is provided with a sealing pressure ring to prevent short circuit leakage of unfiltered media.

### ● APPLICABLE CONDITION

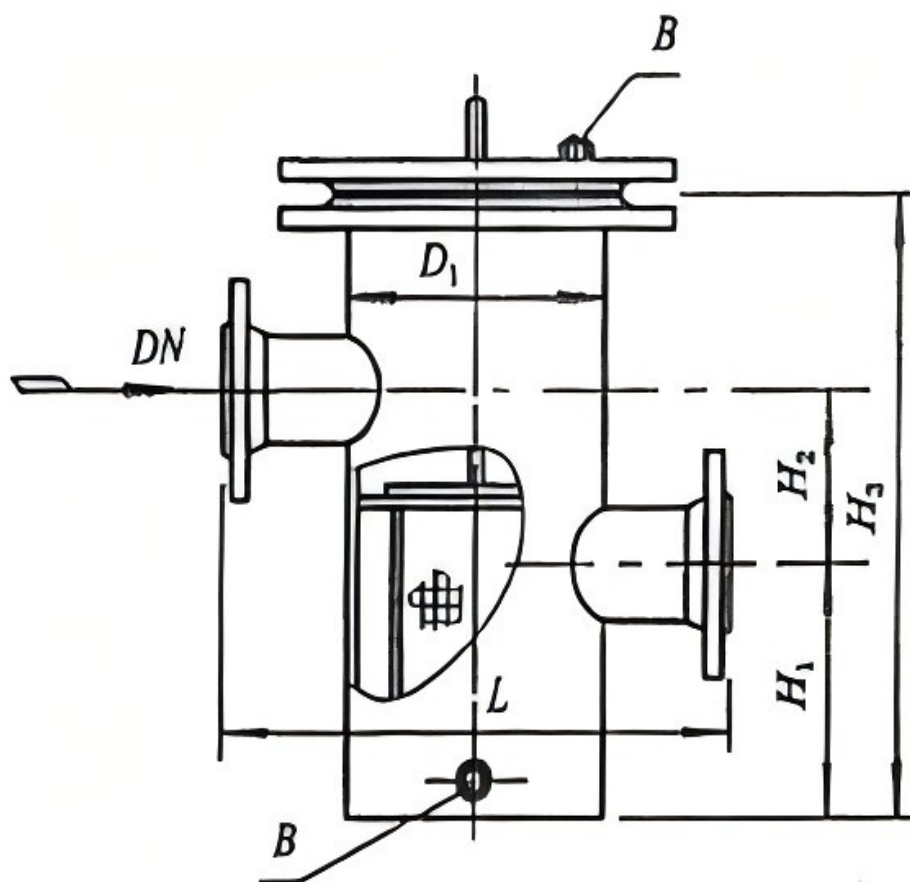
Medium with high impurity content: circulating cooling water, crude oil, lubricating oil, heat transfer oil and coating slurry. Pre-protection of pump suction, heat exchanger and front end of flowmeter. Petrochemical, power plant, hydraulic system, water treatment, coating production line. The elevation of the field pipeline is misplaced, which makes it inconvenient to install the pipeline that goes straight through the flat filter.



Ordering Options Table

|                                                                                |                                      |  |  |  |  |  |
|--------------------------------------------------------------------------------|--------------------------------------|--|--|--|--|--|
|                                                                                | SBL-III - 100 - F - Q - 30 - N - 16P |  |  |  |  |  |
| Filter type                                                                    |                                      |  |  |  |  |  |
| Filter specification                                                           |                                      |  |  |  |  |  |
| DN: 25 32 40 50 65 80<br>100 150 200 250 300                                   |                                      |  |  |  |  |  |
| Connection                                                                     |                                      |  |  |  |  |  |
| F: Flange Connection<br>H: Welded Connection                                   |                                      |  |  |  |  |  |
| Filter body material                                                           |                                      |  |  |  |  |  |
| Q: Carbon steel (Q235)<br>S: Stainless Steel (304)<br>L: Stainless Steel (316) |                                      |  |  |  |  |  |
| Filtrarion fineness(μm)                                                        |                                      |  |  |  |  |  |
| 10 20 30 40 60 80 100                                                          |                                      |  |  |  |  |  |
| Seals                                                                          |                                      |  |  |  |  |  |
| N: NBR<br>V: FKM<br>P: Polytef                                                 |                                      |  |  |  |  |  |
| Nominal pressure(Bar)                                                          |                                      |  |  |  |  |  |
| 10P 16P 25P 40P                                                                |                                      |  |  |  |  |  |

## DIMENSIONS



| Nominal pressure<br>PN(Mpa) | Nominal<br>DN mm | Unit: mm |     |     |     |      | Drain oil<br>B |
|-----------------------------|------------------|----------|-----|-----|-----|------|----------------|
|                             |                  | D1       | L   | H1  | H2  | H3   |                |
| 2.0                         | 25               | 89       | 220 | 110 | 70  | 280  | R3/8           |
|                             | 32               | 89       | 220 | 110 | 70  | 285  | R3/8           |
|                             | 40               | 114      | 280 | 120 | 100 | 340  | R3/8           |
|                             | 50               | 114      | 280 | 120 | 100 | 340  | R1/2           |
|                             | 65               | 140      | 330 | 160 | 110 | 400  | R1/2           |
|                             | 80               | 168      | 340 | 180 | 140 | 460  | R1/2           |
|                             | 100              | 219      | 420 | 220 | 170 | 550  | R3/4           |
|                             | 150              | 273      | 500 | 310 | 220 | 720  | R3/4           |
|                             | 200              | 325      | 560 | 390 | 280 | 900  | R3/4           |
|                             | 250              | 426      | 660 | 480 | 320 | 1070 | R3/4           |
|                             | 300              | 478      | 750 | 640 | 400 | 1360 | R3/4           |