

*Veroflo*



# High Performance Basket Strainers

*for Potable Water, Raw Water, Irrigation and Mining Applications*

## Dimensions and Weights

### DESIGN TYPE

large Flow Basket Strainer

### OPERATING PRESSURE RANGE

PN 10, PN 16, PN 25 and PN 40

### OPERATING TEMPERATURE RANGE

-5° TO 80°

### SIZE RANGE

DN50 to DN1600

### MATERIALS OF CONSTRUCTION

Steel Assembly, Fusion Bonded Epoxy Coated to 300 microns. S/Steel Strainer, Seals in EPDM.

### STANDARD MESH SIZE

- DN 50 - 1.5mm dia
- DN80 to DN100 - 3mm dia.
- DN150 to DN1600 - 5mm

### END CONNECTION

Flanged SABS 1123 or BS 4505 or, EN 1092 or ANSI B16.5

### OPTIONS

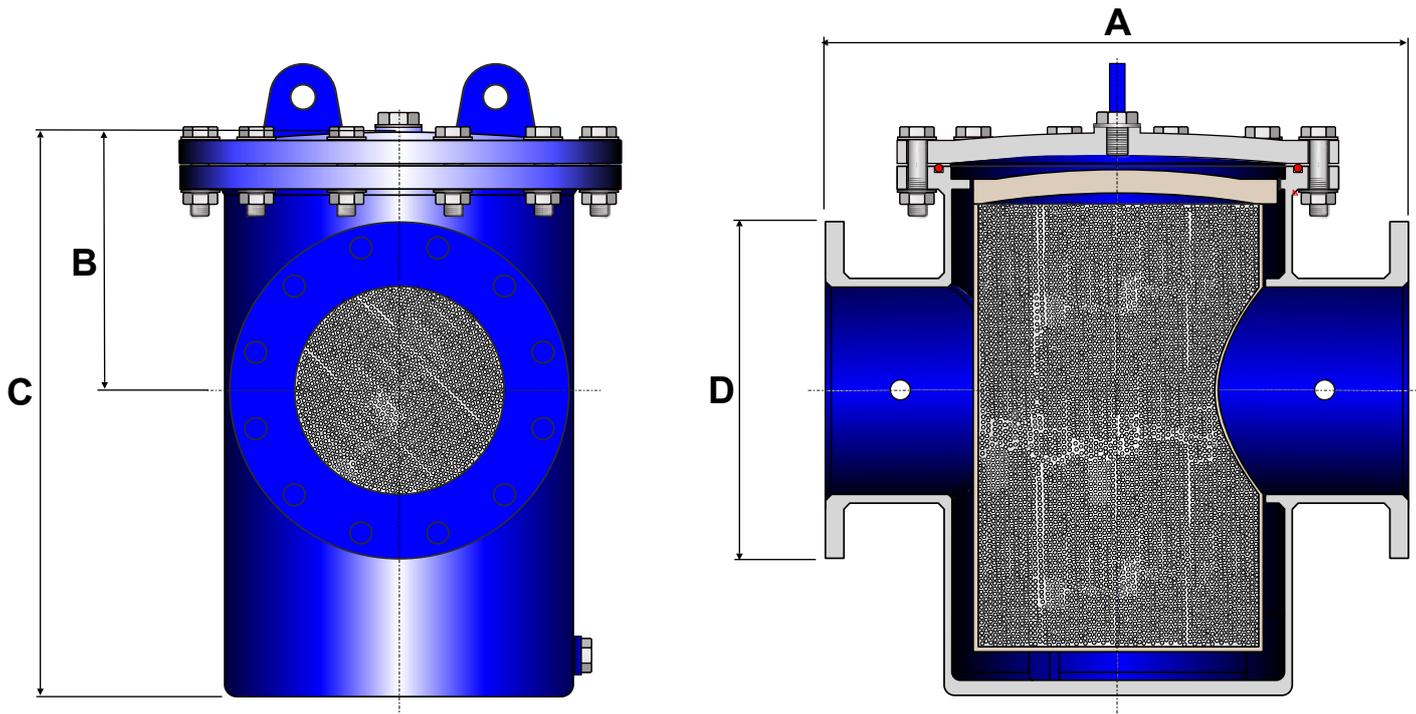
- Bleed Port in Cover
- Bleed Ports for installation of a gauge
- Blow off Port of 1" BSP (larger on request)

### OPTIONAL EXTRAS

- Complete stainless steel construction
- Strainer mesh hole sizes 0.1 - 10 mm
- Customised lengths and/or materials to client's request

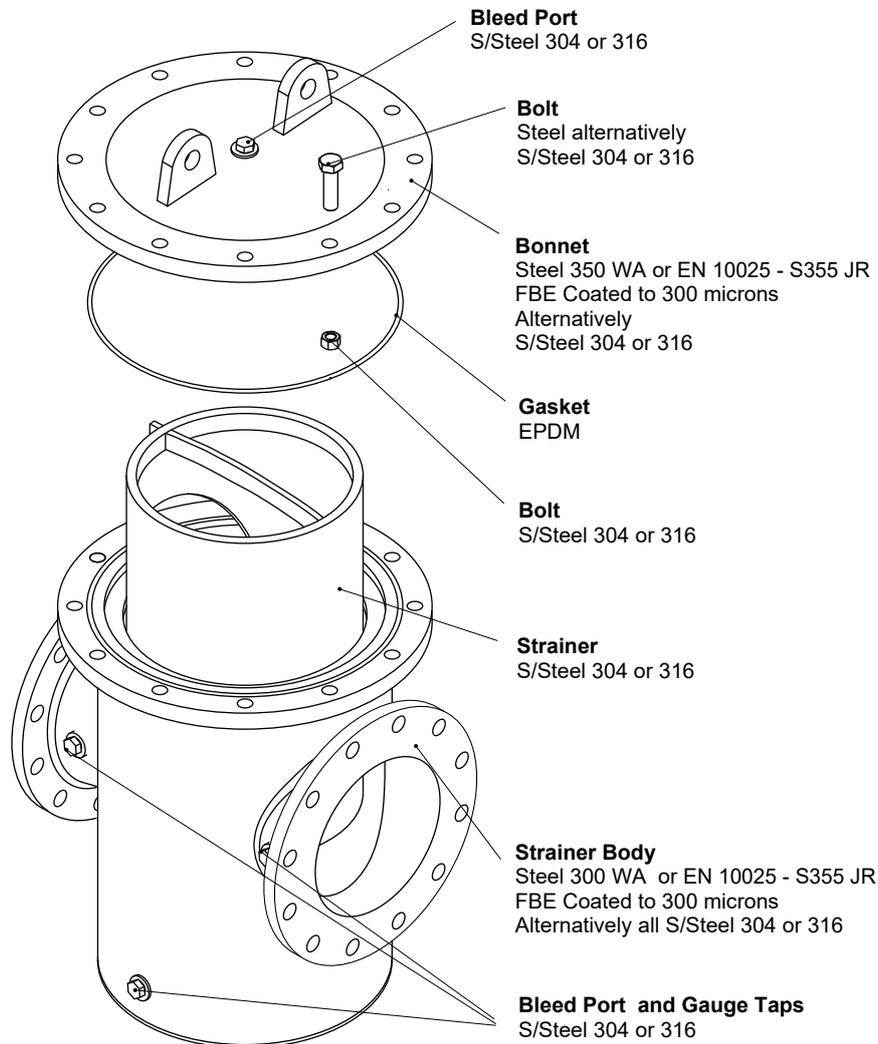
### PERFORMANCE

- Pressure drop - 0.2 bar at 4.5 m/sec.
- Maximum allowable differential pressure 0.5 bar



| Size DN mm       | 50  | 80  | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500  | 600  | 700  | 800  | 900  | 1000 | 1200 | 1400 | 1600 |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|
| <b>A mm</b>      | 230 | 310 | 350 | 480 | 600 | 650 | 700 | 800 | 850 | 950 | 1000 | 1100 | 1250 | 1400 | 1500 | 1650 | 2000 | 2500 | 2800 |
| <b>B mm</b>      | 64  | 140 | 170 | 223 | 286 | 321 | 350 | 385 | 419 | 429 | 503  | 608  | 628  | 812  | 887  | 942  | 1039 | 1164 | 1275 |
| <b>C mm</b>      | 143 | 295 | 355 | 458 | 580 | 684 | 732 | 826 | 918 | 969 | 1103 | 1368 | 1410 | 1824 | 1992 | 2117 | 2334 | 2615 | 2864 |
| <b>D mm PN10</b> | 165 | 200 | 220 | 285 | 340 | 400 | 455 | 505 | 565 | 615 | 670  | 780  | 895  | 1015 | 1115 | 1230 | 1455 | 1675 | 1915 |
| <b>D mm PN16</b> | 165 | 200 | 220 | 285 | 340 | 400 | 455 | 520 | 580 | 640 | 715  | 840  | 910  | 1025 | 1125 | 1355 | 1485 | 1685 | 1930 |
| <b>D mm PN25</b> | 165 | 200 | 235 | 300 | 360 | 425 | 485 | 555 | 620 | 670 | 730  | 845  | 960  | 1085 | 1185 | 1320 | 1530 | 1755 | 1975 |
| <b>D mm PN40</b> | 165 | 299 | 235 | 375 | 475 | 450 | 515 | 580 | 660 | 685 | 755  | 890  | 995  | 1140 | 1250 | 1360 | 1575 | 1795 | 2025 |
| <b>Weight kg</b> | 23  | 34  | 42  | 72  | 130 | 190 | 285 | 345 | 500 | 670 | 800  | 885  | 1230 | 1480 | 1690 | 2380 | 3550 | 5400 | 8300 |

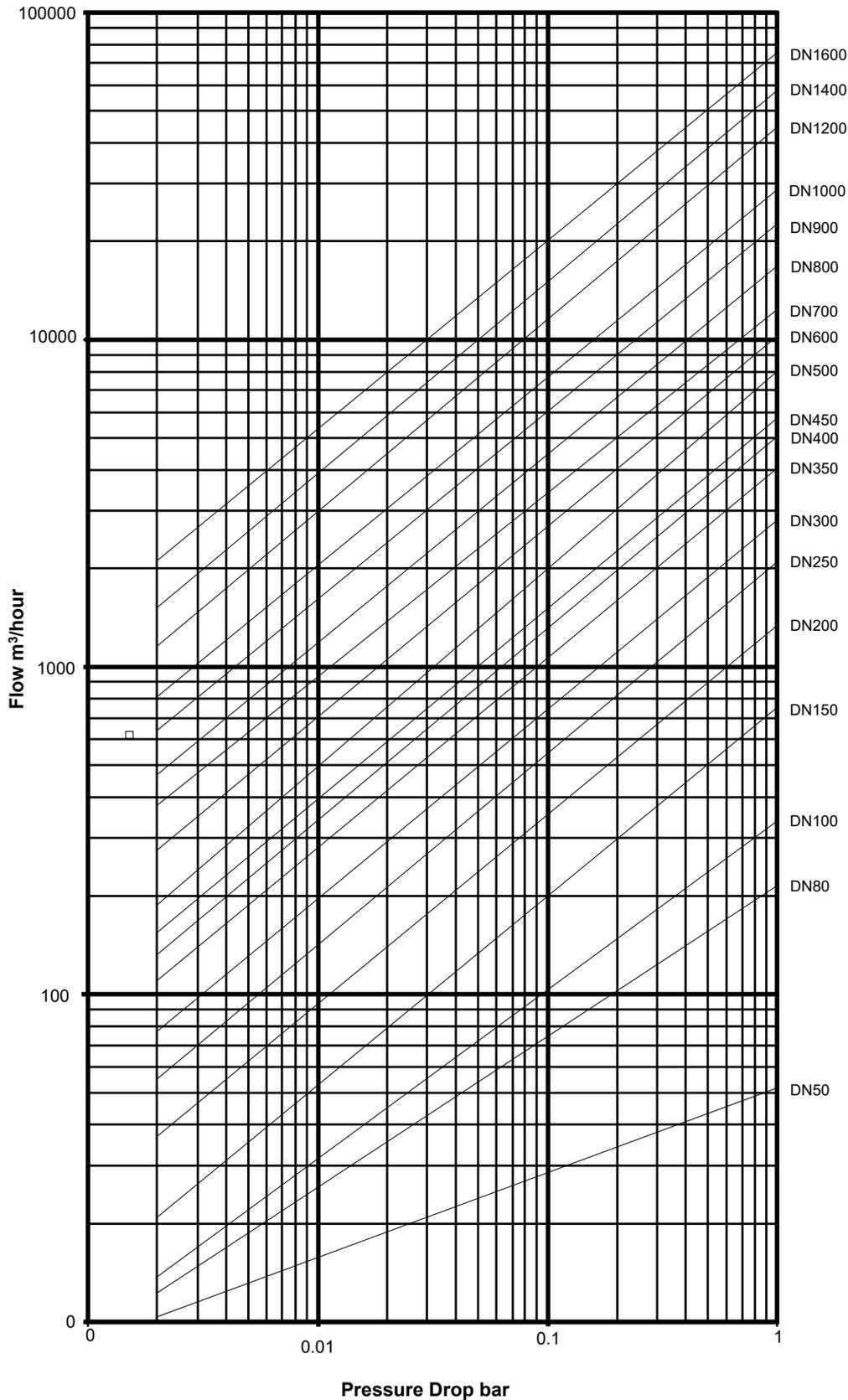
### Materials of Construction



#### Why VEROFLO Basket Strainers?

- **Low headloss** – ensures optimum performance of the strainer and pipeline system.
- **Large size and pressure range** – Sizes DN50 to DN1600 and pressure ratings of PN10 to PN40
- **Ease of maintenance** - In situ maintenance does not require removal of the strainer. The strainer can also be designed for bottom flushing obviating the need to remove the basket.
- **Large basket volume** – Large basket area, Increasing system reliability and safety
- **Suitable for installation in any position** – Can be installed at any angle. However, we recommend for large diameters to be installed with the bonnet facing up.
- **Suitable for all applications** – Our strainers are epoxy coated to 300 microns as standard with stainless steel 304 or 316 strainer basket and trim. Our basket of strainers are also available in full stainless steel 304 or 316.
- **Short Lead times** – Our strainers are 100% locally manufactured. Lead times are therefore very short even for larger sizes
- **Complete solutions** – VEROFLO strainers are part of a wider range of pipeline complimentary products which include VEROFLO pipeline fittings, KII Couplings, Flange Adaptors, Dismantling Joints , AIRFLO Air Valves and CHECKFLO Check Valves.
- **Unparalleled sales, technical and after sales support** – We pride ourselves on our quality and service. Each order is processed with care, manufactured with precision with the highest quality of materials relative to cost and delivered in the shortest possible time. Each product is backed up by sound technical expertise.

### Flow Characteristics



| Size DN | Kv    |
|---------|-------|
| 50      | 45    |
| 80      | 185   |
| 100     | 295   |
| 150     | 650   |
| 200     | 1155  |
| 250     | 1804  |
| 300     | 2500  |
| 350     | 3500  |
| 400     | 4350  |
| 450     | 5050  |
| 500     | 6100  |
| 600     | 8850  |
| 700     | 11731 |
| 800     | 15546 |
| 900     | 20044 |
| 1000    | 25356 |
| 1200    | 37701 |
| 1400    | 50583 |
| 1600    | 66480 |

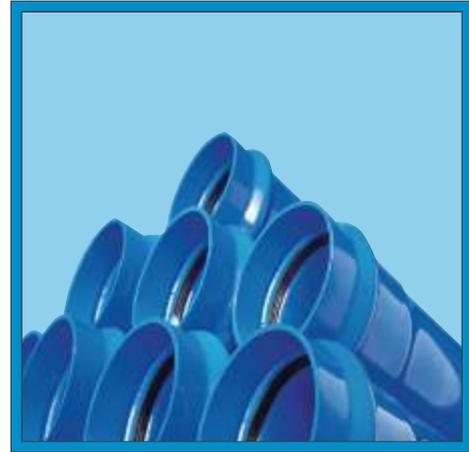
$$Q = Kv \cdot \sqrt{\frac{\Delta P}{SG}}$$

Q: Flow rate m<sup>3</sup>/hour  
 ΔP: Pressure Drop bar  
 SG: Specific Gravity (1 for water)  
 Kv: Flow coefficient

TruFlo is a designer, manufacturer and supplier of Pipe, Valves, Fittings and Couplings. Our products and services include:



TruFlo KII Couplings Flange Adaptors and Dismantling Joints are 100% locally manufactured in sizes 40mm to 1600mm and for pressure ratings of up to PN40 as standard. We offer short lead times



In addition to Ductile Iron Pipe, TruFlo is a large distributor of PVC, HDPE and Steel Pipe in diameters up to 1000 NB. All pipe is supplied with associated Valves and Fittings



TruFlo is the manufacturer and supplier of the AirFlo range of air valves for Water and Sewer pipelines. Air Valves are manufactured in sizes DN25 to DN300 and for pressure ratings of up to PN100. AirFlo air valves have four functions as stand including automatic Surge protection



TruFlo manufactures Double Offset Butterfly valves in sizes DN200 to DN1200 and for pressure ratings PN10 to PN40. Valves are available fusion bonded epoxy coated and in various trim options.



TruFlo is the manufacturer and supplier of the CheckFlo range of Nozzle Check, Swing Check and Silent for Water pipelines. Check Valves are manufactured in sizes DN50 to DN1200 and for pressure ratings of up to PN100. CheckFlo valves have low headloss, are maintenance free and prevent Surge.



TruFlo is one of the largest manufacturers of fabricated Steel fittings for Water and Wastewater pipelines. Our fittings are manufactured under the VeroFlo brand in sizes DN50 to DN 1600 and for pressure ratings of PN64 as standard. All fittings are fusion bonded epoxy coated as standard.

TruFlo provides the most comprehensive, technical, logistical and after sales support in the industry. Try Us!