

Y - Strainer

SBM PTV Y-Strainers are compact, of a cylindrical shape and strong enough to handle hot water, steam, air and gases. Gases, being readily compressible, will flow through Y-strainers of the same size as a pipeline easily, with little pressure loss. They are designed with adequate safety margins. This means sufficiently heavy wall thickness and blow off connections. As an example, in improperly trapped steam lines, condensate can collect in low points and become a slug of water traveling at very high velocity down the line. Even the slight change in direction caused by a Y-strainer can produce a tremendous shock which can break the strainer wall. The straining element of our industrial Y-Strainers perfectly seals to the body by means of a carefully machined seat so no particle can bypass it. The same thing applies to the clean-out end. The screen fits tightly.

Features:

- A) One piece Cast Body made in Cast Iron or Ductil Iron plus blue epoxy paint.
- B) Available with a wide selection of mesh sizes.
- C) Generous screen area and properly proportioned straining chamber minimize initial pressure drop while maximizing time between cleanings.
- D) Drain port or drain ball valve with NPT end; for in line emptying of condensate or water
- E) Iron strainers are complete with FF or RF flanges in accordance with BS EN 1092-1
- F) Low pressure drop streamlined design.
- G) SS304 perforated screens as standard.
- H) Compact end to end dimension.
- H) Bolting cover to ease maintenance operations. All sizes complete with bolted cover.

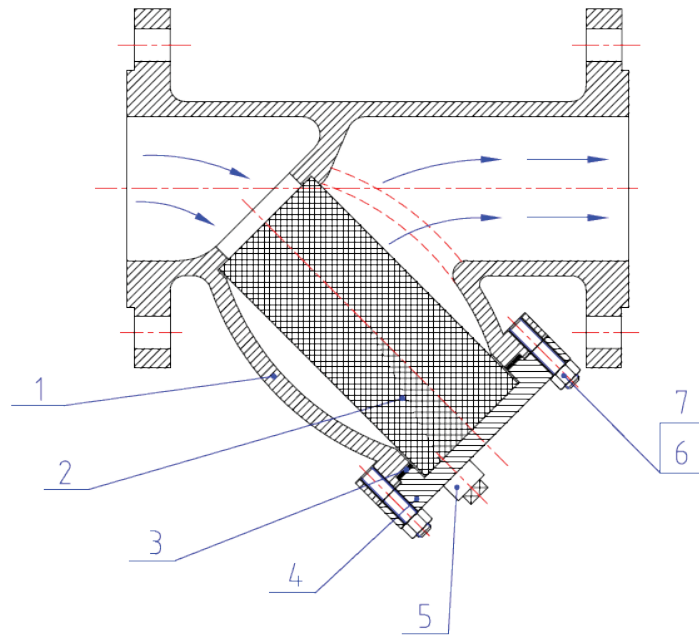


Performance Data

1. Size range: DN25 ~ DN400
2. Pressure ratings: PN16 / PN25
3. Working temperature: -29°C ~ +200°C
4. Suitable Medium: Water Supply
Hot water, Thermal Oil and Heat Transfer Fluids, Steam,
Compressed Air, etc.
5. Body Material: <8" Cast Iron GGG25
□8" :Ductile Iron GGG40
7. Screen Material: A276 SS304
8. Mesh: As per purchaser

Technical Specification

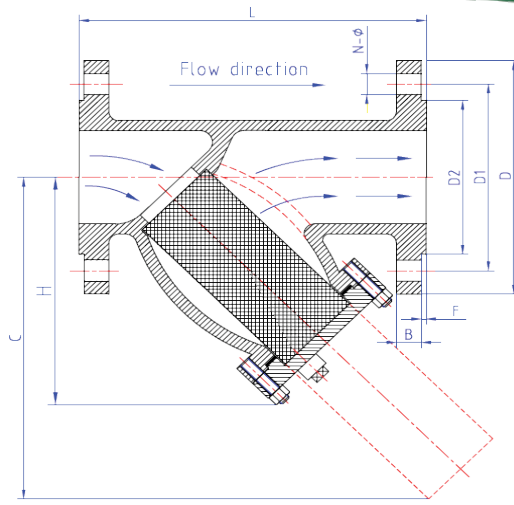
1. Design & Manufacture standard as to: PED 97/23/CE
ASME B16.34
2. Face to Face dimension standard as to: EN-558-1
3. Flange dimension conforms as to: BS EN 1092-1
4. Testing And Inspection as to: EN 12266-1 / BS6755
Part 1
5. Pressure-temperature conforms as to: ASME B16.34



Part List:

Y Strainer for Clean Water Part List:

| No. | Part Name | Material | Standard |
|-----|------------|---------------|--------------------------|
| 1. | Body | GGG25 / GGG40 | Cast Iron / Ductile Iron |
| 2. | Screen | SS304 | ASTM A276 |
| 3. | Gasket | PTFE | USA DuPont |
| 4. | Cover | GGG25 / GGG40 | Cast Iron / Ductile Iron |
| 5. | Drain Plug | A105 | ASTM A105 |
| 6. | Bolt | B7+EZP | ASTM A193 |
| 7. | Nut | 2H+EZP | ASTM A194 |



Main Dimensions:

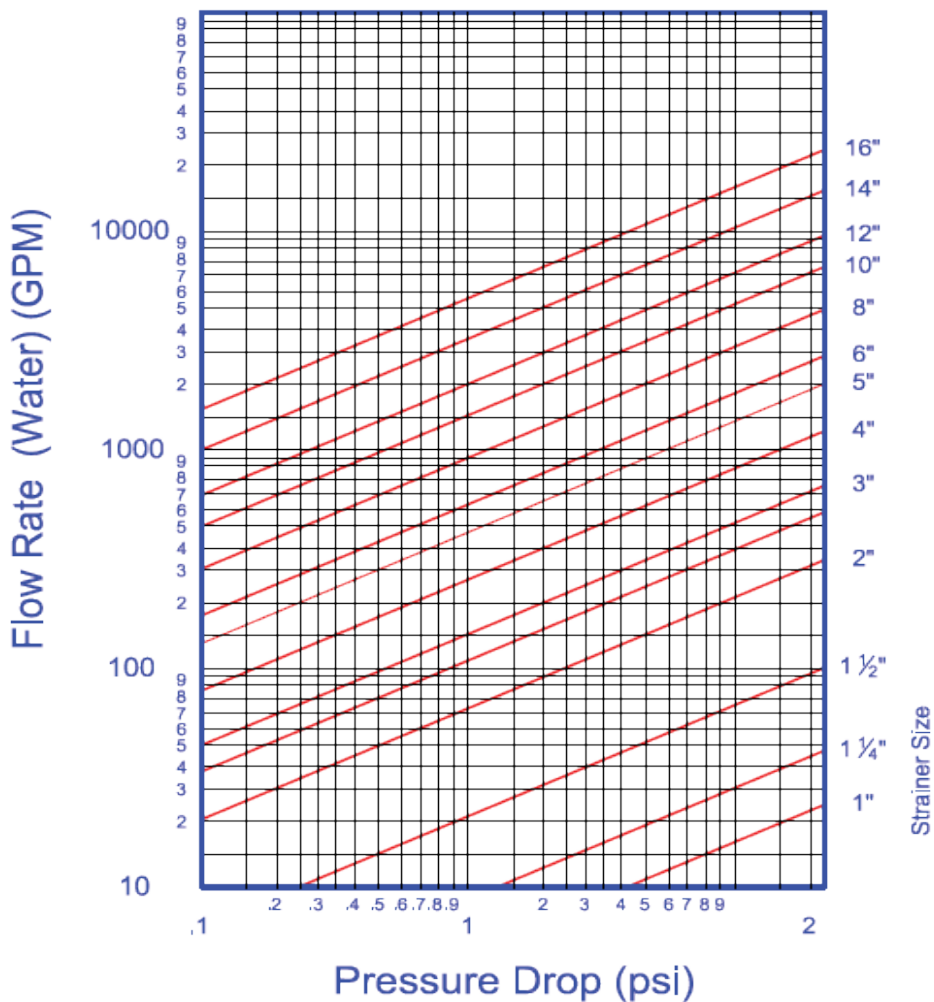
Y Strainer DIN For Water Series PN16:

| DN | NPS | L | D | D1 | D2 | B | N-Φ | F | H | C | Weight (Kg) |
|-----|--------|------|------|------|------|----|--------|---|-----|-----|-------------|
| 25 | 1" | 165 | Φ115 | Φ85 | Φ68 | 16 | 4-Φ14 | 2 | 105 | 145 | 3.5 |
| 32 | 1 1/4" | 200 | Φ140 | Φ100 | Φ78 | 18 | 4-Φ18 | 2 | 131 | 180 | 5.3 |
| 40 | 1 1/2" | 200 | Φ150 | Φ110 | Φ88 | 18 | 4-Φ18 | 3 | 151 | 193 | 6.5 |
| 50 | 2" | 230 | Φ165 | Φ125 | Φ102 | 20 | 4-Φ18 | 3 | 165 | 207 | 8.5 |
| 65 | 2 1/2" | 290 | Φ185 | Φ145 | Φ122 | 20 | 8-Φ18 | 3 | 182 | 230 | 12 |
| 80 | 3" | 310 | Φ200 | Φ160 | Φ138 | 20 | 8-Φ18 | 3 | 201 | 256 | 16 |
| 100 | 4" | 350 | Φ220 | Φ180 | Φ158 | 22 | 8-Φ18 | 3 | 238 | 303 | 21 |
| 125 | 5" | 400 | Φ250 | Φ210 | Φ188 | 22 | 8-Φ18 | 3 | 275 | 347 | 32 |
| 150 | 6" | 480 | Φ285 | Φ240 | Φ212 | 24 | 8-Φ22 | 3 | 326 | 420 | 40 |
| 200 | 8" | 600 | Φ340 | Φ295 | Φ268 | 26 | 12-Φ22 | 3 | 395 | 510 | 75 |
| 250 | 10" | 730 | Φ405 | Φ355 | Φ320 | 26 | 12-Φ26 | 3 | 385 | 560 | 90 |
| 300 | 12" | 850 | Φ460 | Φ410 | Φ378 | 28 | 12-Φ26 | 4 | 427 | 630 | 150 |
| 350 | 14" | 980 | Φ520 | Φ470 | Φ438 | 30 | 16-Φ26 | 4 | 526 | 725 | 260 |
| 400 | 16" | 1100 | Φ580 | Φ525 | Φ490 | 32 | 16-Φ30 | 4 | 574 | 840 | 390 |

Y Strainer DIN For Water Series PN25

| DN | NPS | L | D | D1 | D2 | B | N-Φ | F | H | C | Weight (Kg) |
|-----|--------|------|------|------|------|----|--------|---|-----|-----|-------------|
| 25 | 1" | 165 | Φ115 | Φ85 | Φ68 | 16 | 4-Φ14 | 2 | 105 | 145 | 3.8 |
| 32 | 1 1/4" | 200 | Φ140 | Φ100 | Φ78 | 18 | 4-Φ18 | 2 | 131 | 180 | 5.6 |
| 40 | 1 1/2" | 200 | Φ150 | Φ110 | Φ88 | 18 | 4-Φ18 | 3 | 151 | 193 | 6.9 |
| 50 | 2" | 230 | Φ165 | Φ125 | Φ102 | 20 | 4-Φ18 | 3 | 165 | 207 | 9 |
| 65 | 2 1/2" | 290 | Φ185 | Φ145 | Φ122 | 22 | 8-Φ18 | 3 | 182 | 230 | 13 |
| 80 | 3" | 310 | Φ200 | Φ160 | Φ138 | 24 | 8-Φ18 | 3 | 201 | 256 | 17.5 |
| 100 | 4" | 350 | Φ235 | Φ190 | Φ162 | 26 | 8-Φ22 | 3 | 238 | 303 | 23 |
| 125 | 5" | 400 | Φ270 | Φ220 | Φ188 | 28 | 8-Φ26 | 3 | 275 | 347 | 34 |
| 150 | 6" | 480 | Φ300 | Φ250 | Φ218 | 30 | 8-Φ26 | 3 | 326 | 420 | 43 |
| 200 | 8" | 600 | Φ360 | Φ310 | Φ278 | 32 | 12-Φ26 | 3 | 395 | 510 | 79 |
| 250 | 10" | 730 | Φ425 | Φ370 | Φ335 | 32 | 12-Φ30 | 3 | 385 | 560 | 95 |
| 300 | 12" | 850 | Φ485 | Φ430 | Φ395 | 34 | 16-Φ30 | 4 | 427 | 630 | 160 |
| 350 | 14" | 980 | Φ555 | Φ490 | Φ450 | 38 | 16-Φ33 | 4 | 526 | 725 | 273 |
| 400 | 16" | 1100 | Φ620 | Φ550 | Φ505 | 40 | 16-Φ36 | 4 | 746 | 840 | 405 |

Y Strainer Flow Rate Vs. Pressure Drop : (Clean Screen)



ORDERING CODE:

Example: OMEGA CS-23-21-200

Model: OMEGA AIR VENT CAST STEEL SERIES CLASS 150
Standard A216 WCB Body Red Epoxy
SS316 CF8M Interior and floating ball
NBR Buna seat
Flanged End RF
Rating Class 150
Size 2"

Available Interior and Floating Ball Material Code:

SS304 CF8 Stainless Steel: 1
SS316 CF8M Stainless Steel: 2
SS316L CF3M Stainless Steel: 3

Available Seat Material Code:

Viton: 1
EPDM: 2
NBR Buna: 3

Available Rating Class Code:

Class 150: 1
Class 300: 2
Class 600: 3

Available Connection Code:

Thread NPT: 1
Flanged End: 2

Available Size Code:

1": 100
1 1/4": 125
1 1/2": 150
2": 200
2 1/2": 250
3": 300
4": 400
6": 600
8": 800