

## Flange Y-strainer, Article 697-GG and 697-GG/FS (fine mesh)

**Diameter DN 15 up to DN 200**

Flange strainer, Y-design for the filtration of solids from the media circuit. Insert with stainless steel mesh, with drain plug in the cover as standard. Installation possible in horizontal and vertical pipelines, the direction of flow is marked with an arrow on the body.

- ☛ **Article 697-GG/FS fine mesh, mesh expanse 0,25 mm**
- ☛ **Low pressure losses due to the favorable hydraulic form**
- ☛ **Face to face according EN 558-1, basis series 1 (DIN 3202, F1)**
- ☛ **Flange connection according EN 1092-2 , Form B PN 10/16**

The mesh size of the fine screens is 0.25 mm for all nominal diameter, the screen insert are carried out with a additional support mesh.

Special screens with a wide variety of mesh sizes on request available

**Optional:** - Connections for differential pressure gauge (G 1/4 " / G 1/2")  
- Magnet insert for catching metal particles  
- Drain cock in the cover

NOTE: If the differential pressure rises > 400.0 mbar the screen insert should be cleaned.



|     |                                              |                  |
|-----|----------------------------------------------|------------------|
| CE  | 0036 PED 2014/68/EU, attachmend III, Modul H |                  |
| T°C | Ambient                                      | -10°C ... +80°C  |
| T°C | Medium                                       | -10°C ... +400°C |

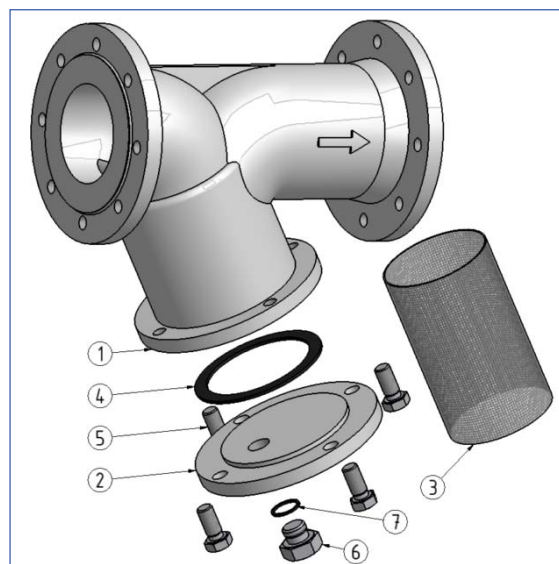
|                     |                       |
|---------------------|-----------------------|
| • Design standard   | DIN EN 12516-1        |
| • Body strenght     | DIN EN 12516-2        |
| • Design pressure   | PN 10 / PN 16         |
| • Marking           | EN 19, MSS SP-25      |
| • Inspection / test | DIN EN 12266 P10, P11 |

### Article 697-GG and 697-GG/FS

| Pos. | Description  | Materials                           |
|------|--------------|-------------------------------------|
| 1    | body         | grey cast iron EN-GJL 1040          |
| 2    | cover        | grey cast iron EN-GJL 1040          |
| 3    | mesh         | stainless steel A 182 F304 (1.4301) |
| 4    | sealing      | Aramid (TESNIT BA-U)                |
| 5    | drain plug   | steel zinc plated 5.8               |
| 6    | cover screws | steel zinc plated 5.8               |
| 7    | sealing      | hart packing                        |

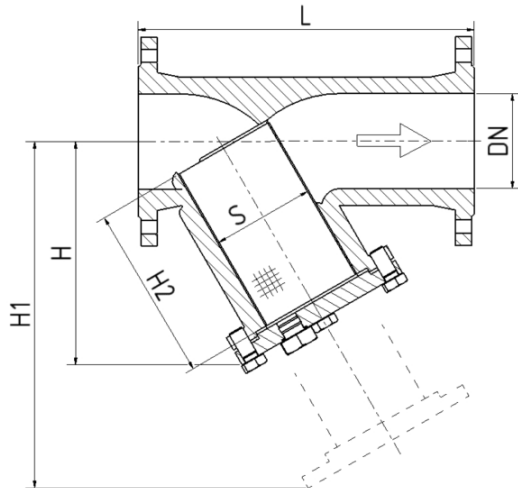
#### pressure-/temperature range

| design pressure                           | PN 10 | PN 16 |
|-------------------------------------------|-------|-------|
| test pressure (bar)                       | 15,0  | 24,0  |
| max. operating pressure at temperature °C |       |       |
| -10° C ... +50° C                         | 10,0  | 16,0  |
| 100° C                                    | 11,0  | 14,5  |
| 150° C                                    | 9,8   | 11,8  |
| 200° C                                    | 7,1   | 10,2  |



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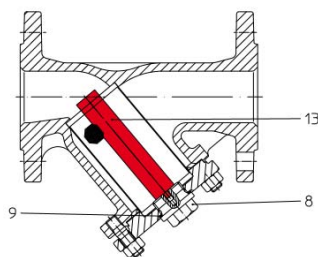
Diameter DN 15 up to DN 200



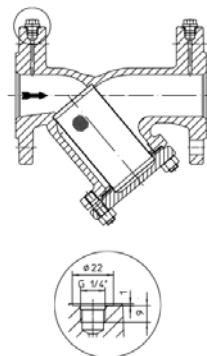
| mesh insert                     |                            |         |          |           |
|---------------------------------|----------------------------|---------|----------|-----------|
| Material                        | 1.4301 / 304 S15 / BS 6290 |         |          |           |
| Execution                       | standard mesh              |         |          | fine mesh |
| Diameter (DN)                   | 15 - 20                    | 25 - 65 | 80 - 200 | 15 - 200  |
| Mesh size (mm)                  | 0,54                       | 0,87    | 1,18     | 0,25      |
| Mesh count (n/cm <sup>2</sup> ) | 150                        | 64      | 25       | 625       |

|          | article-no.   | STANDARD MESH  |                                           |              | article-no.   | FINE MESH      |                                           |              | cast iron GG 25 (EN-GJL-250, EN-JL 1030) |        |         |         |        |                       |             |
|----------|---------------|----------------|-------------------------------------------|--------------|---------------|----------------|-------------------------------------------|--------------|------------------------------------------|--------|---------|---------|--------|-----------------------|-------------|
| Diameter | 697-GG        | mesh size (mm) | <sup>1)</sup> KVS-value m <sup>3</sup> /h | Zeta-value ζ | 697-GG/FS     | mesh size (mm) | <sup>1)</sup> KVS-value m <sup>3</sup> /h | Zeta-value ζ | L (mm)                                   | H (mm) | H1 (mm) | H2 (mm) | S (mm) | design pressure (bar) | weight (kg) |
| DN 15    | 492.7217.2.11 | 0,54           | 5,3                                       | 2,88         | 492.7251.2.11 | 0,25           | 5,0                                       | 3,24         | 130                                      | 75     | 115     | 53      | 25     | 16                    | 2,20        |
| DN 20    | 492.7217.2.13 | 0,54           | 9,5                                       | 2,84         | 492.7251.2.13 | 0,25           | 9,0                                       | 3,16         | 150                                      | 75     | 115     | 53      | 25     | 16                    | 3,30        |
| DN 25    | 492.7217.2.15 | 0,87           | 16,5                                      | 2,30         | 492.7251.2.15 | 0,25           | 14,8                                      | 2,85         | 160                                      | 90     | 135     | 68      | 31     | 16                    | 3,80        |
| DN 32    | 492.7217.2.18 | 0,87           | 20,0                                      | 4,19         | 492.7251.2.18 | 0,25           | 18,0                                      | 5,18         | 180                                      | 90     | 135     | 71      | 38     | 16                    | 5,00        |
| DN 40    | 492.7217.2.19 | 0,87           | 33,0                                      | 3,75         | 492.7251.2.19 | 0,25           | 30,0                                      | 4,55         | 200                                      | 110    | 170     | 91      | 47     | 16                    | 6,80        |
| DN 50    | 492.7217.2.21 | 0,87           | 54,0                                      | 3,43         | 492.7251.2.21 | 0,25           | 48,0                                      | 4,34         | 230                                      | 120    | 210     | 105     | 57     | 16                    | 7,50        |
| DN 65    | 492.7217.2.24 | 0,87           | 95,0                                      | 3,16         | 492.7251.2.24 | 0,25           | 85,0                                      | 3,95         | 290                                      | 140    | 240     | 123     | 73     | 16                    | 11,20       |
| DN 80    | 492.7217.2.25 | 1,18           | 140,0                                     | 3,34         | 492.7251.2.25 | 0,25           | 131,0                                     | 3,82         | 310                                      | 165    | 320     | 144     | 88     | 16                    | 15,40       |
| DN 100   | 492.7217.2.27 | 1,18           | 201,0                                     | 3,96         | 492.7251.2.27 | 0,25           | 189,0                                     | 4,48         | 350                                      | 220    | 460     | 184     | 108    | 16                    | 23,20       |
| DN 125   | 492.7217.2.28 | 1,18           | 340,0                                     | 3,38         | 492.7251.2.28 | 0,25           | 320,0                                     | 3,81         | 400                                      | 260    | 425     | 221     | 135    | 16                    | 33,50       |
| DN 150   | 492.7217.2.29 | 1,18           | 526,0                                     | 2,93         | 492.7251.2.29 | 0,25           | 494,0                                     | 3,32         | 480                                      | 300    | 465     | 260     | 160    | 16                    | 47,10       |
| DN 200   | 492.7217.2.31 | 1,18           | 870,0                                     | 3,38         | 492.7251.2.31 | 0,25           | 818,0                                     | 3,83         | 600                                      | 360    | 660     | 360     | 208    | 10 / 16               | 99,50       |

<sup>1)</sup> applies to a clean mesh



opt. magnet insert



opt. connection for differential pressure measurement



opt. drain ball valve in cover