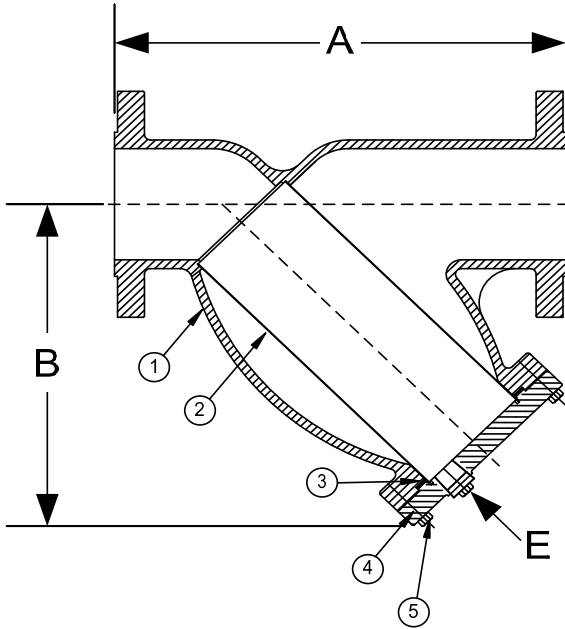


Style SSA-7HC

Y-Strainer, 150 lb. & 300 lb. Flanged
Cast Hastelloy C276 (ASTM A 494, Grade CW12MW)



| PARTS LIST | | |
|------------|--------------------|---|
| ITEM | DESCRIPTION | MATERIAL |
| 1* | BODY | HASTELLOY C276 (ASTM A 494, GRADE CW12MW) |
| 2 | SCREEN | STAINLESS STEEL (304) |
| 3 | GASKET | SPIRAL WOUND STAINLESS STEEL (304) |
| 4 | COVER | HASTELLOY C276 (ASTM A 494, GRADE CW12MW) |
| 5 | HEX HEAD CAP SCREW | STAINLESS STEEL (ASTM A 193, GRADE B8) |

Optional: Blow-off Plug, Stainless Steel (304)

*Optional Body Materials Available in 304 and 400 Series SS, Alloy 20, Inconel, Monel and Stellite.

STANDARD SCREENS SUPPLIED

| SIZE | | SCREEN GAGE | SCREEN PERFORATION | | | | | |
|----------|------------|-------------|--------------------|-----|-----------|------------|-----|-----------|
| in | mm | | FOR STEAM | | OPEN AREA | FOR LIQUID | | OPEN AREA |
| | | | in | mm | | in | mm | |
| 1/2 to 4 | 15 to 100 | 28 | 3/64 | 1.2 | 33% | 1/16 | 1.6 | 30% |
| 5 to 10 | 50 to 250 | 22 | 3/64 | 1.2 | 33% | 1/8 | 3.2 | 43% |
| 12 to 14 | 300 to 350 | 22 | 1/16 | 1.6 | 30% | 1/8 | 3.2 | 43% |

Standard screens supplied are for **steam service**, unless otherwise specified.

Options: Other perforations, meshes, and screen materials are available.

| SIZE | | DIMENSIONS | | | | | | | | | | WEIGHTS | | | |
|-------|-----|------------|-----|---------|-----|---------|-----|---------|-----|-------------|----|---------|-----|------|-----|
| | | A | | | | B | | | | E | | | | | |
| | | 150# | | 300# | | 150# | | 300# | | 150# & 300# | | 150# | | 300# | |
| in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | lbs | kgs | lbs | kgs |
| 1/2 | 15 | 6-1/2 | 165 | 6-1/8 | 156 | 3-3/4 | 95 | 3-3/4 | 95 | 3/8 | 10 | 7 | 3 | 6 | 3 |
| 3/4 | 20 | 7-3/8 | 187 | 7-3/4 | 197 | 4-1/4 | 108 | 4-1/4 | 108 | 1/2 | 15 | 11 | 5 | 13 | 6 |
| 1 | 25 | 7-3/8 | 187 | 7-7/8 | 200 | 4-1/4 | 108 | 4-1/4 | 108 | 1/2 | 15 | 11 | 5 | 13 | 6 |
| 1-1/4 | 32 | 7 | 178 | 8-1/8 | 206 | 5-1/8 | 130 | 5-1/8 | 130 | 1/2 | 15 | 12 | 5 | 19 | 9 |
| 1-1/2 | 40 | 7-1/8 | 181 | 8-1/4 | 210 | 5-1/8 | 130 | 5-1/8 | 130 | 1/2 | 15 | 14 | 6 | 19 | 9 |
| 2 | 50 | 7-7/8 | 200 | 9-1/2 | 241 | 6 | 152 | 6 | 152 | 1/2 | 15 | 22 | 10 | 33 | 15 |
| 2-1/2 | 65 | 9-3/4 | 248 | 10-3/8 | 264 | 7 | 178 | 7 | 178 | 1 | 25 | 32 | 15 | 44 | 20 |
| 3 | 80 | 10-1/16 | 256 | 12 | 305 | 7-7/16 | 189 | 7-5/16 | 186 | 1 | 25 | 41 | 19 | 58 | 26 |
| 4 | 100 | 12-1/8 | 308 | 14-1/2 | 368 | 8-15/16 | 227 | 8-15/16 | 227 | 1-1/2 | 40 | 63 | 29 | 90 | 41 |
| 5 | 125 | 15-1/2 | 394 | 19-5/16 | 491 | 13-1/32 | 331 | 13-1/32 | 331 | 2 | 50 | 111 | 50 | 180 | 82 |
| 6 | 150 | 18-1/2 | 470 | 19-5/16 | 491 | 13-1/4 | 337 | 13-1/4 | 337 | 2 | 50 | 136 | 62 | 180 | 82 |
| 8 | 200 | 21-3/8 | 543 | 23-3/8 | 594 | 15-1/2 | 394 | 15-1/2 | 394 | 2 | 50 | 212 | 96 | 304 | 138 |
| 10 | 250 | 26 | 660 | 27-3/8 | 695 | 18-7/16 | 468 | 18-7/16 | 468 | 2 | 50 | 280 | 127 | 470 | 213 |
| 12 | 300 | 29-7/8 | 759 | 32 | 813 | 21-5/8 | 549 | 21-5/8 | 549 | 2 | 50 | 460 | 209 | 709 | 322 |
| 14 | 350 | 34-1/2 | 876 | 36 | 914 | 25 | 635 | 25 | 635 | 2 | 50 | 980 | 445 | 1300 | 590 |

Larger sizes available upon request.

Certified dimensional drawings are available upon request.

†This table reflects only the nearest metric equivalents.

TOTAL SCREEN AREA (150 LB.)

| Size | (in ²) | Size | (in ²) | Size | (in ²) | Size | (in ²) |
|--------|--------------------|--------|--------------------|------|--------------------|------|--------------------|
| 1/2" | 6.46 | 1-1/2" | 18.68 | 5" | 209.41 | 12" | 600.71 |
| 3/4" | 12.32 | 2" | 30.28 | 6" | 241.18 | | |
| 1" | 12.32 | 3" | 57.62 | 8" | 342.86 | | |
| 1-1/4" | 18.68 | 4" | 91.89 | 10" | 532.80 | | |

*See DETERMINING RATIOS on page S5 of the Strainer Information Section for calculating NET FREE AREA of the screen to inside pipe area.

PRESSURE DROP CHART

Flanged "Y" Pattern Strainers (Styles SA, SA-7, SSA and SSA-7)

This pressure drop chart is based on the flow of clean water through the Keckley "Y" strainers listed above with screen perforations ranging from 3/64" through 1/8".

TO USE CHARTS:

Find your desired rate of flow (GPM) on the left hand side of the chart. Follow its corresponding horizontal line to the point where it intersects the diagonal line indicating the strainer pipe size. From this point of intersection, follow the vertical line down to the bottom of the chart to determine the approximate pressure drop.

CORRECTION FACTORS:

For finer mesh screens that are backed with a perforated sheet, multiply the pressure drops shown at right by the following:

- 40 mesh x 1.2
- 60 mesh x 1.4
- 80 mesh x 1.6
- 100 mesh x 1.7

