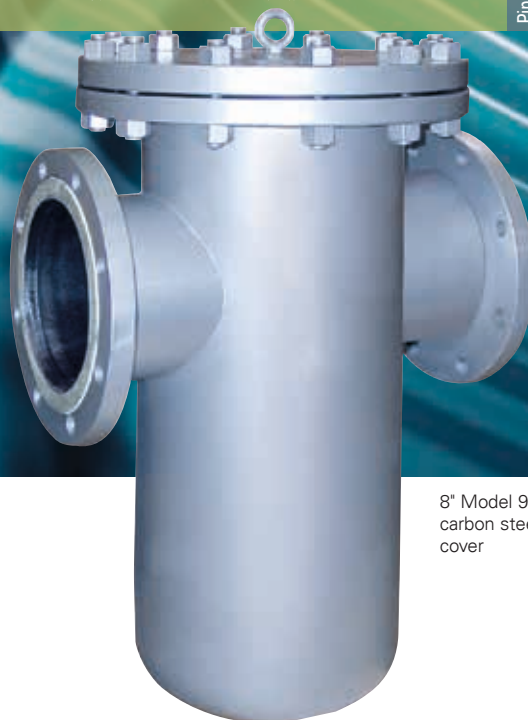


# Model 90



8" Model 90 strainer, carbon steel with bolted cover

- Carbon steel or stainless steel\*
- Sizes 1" to 48"
- Flanged ANSI class 150 or 300

## Features

- Straight through flow design
- Low pressure loss
- Slant top basket design
- Basket perforations from 1/32" to 1"
- 20 to 400 mesh linings for fine straining applications

## Options

- ANSI Class 600, 900, 1500 or DIN EN flanges
- European standards - DIN/PED available
- Hinged cover or davit assembly for easier maintenance
- Alloy construction for body and baskets
- RTJ-style connections
- Vent valves
- Drain valves
- Gauge taps
- Backflushing system for manual or automated cleaning
- Pressure differential gauge and switches
- Steam jacket for highly viscous fluids
- Rotated or offset nozzle placement
- High pressure capabilities
- Construction according to "AD 2000-Merkblätter", DIN EN 13445 or ASME Code
- Brazilian NR-13 available
- Coatings and linings available upon request

\* Stainless steel strainers include painted carbon steel, external, non-wetted fasteners as standard

## Customize to improve performance and meet higher pressure requirements

A slant top design improves the flow through the strainer and results in significantly lower pressure drops. This design also results in a more compact basket that weighs less than an ordinary basket. This makes it possible for one person to remove it from the strainer housing, when it comes time to clean or changeout the basket.

## Common modifications

- Rotated inlet and outlet nozzles to eliminate an elbow in the downstream piping
- Lowering or raising either the inlet or the outlet nozzle, this eliminates serious alignment and support problems

## Cover type openings

For applications with infrequent basket changing, Eaton offers a simple, cost-effective, bolted cover type. It's available with a davit assembly cover for larger strainers with heavy covers, this makes it possible for a one-person operation.

For applications with more frequent changing, Eaton offers a hinged, quick opening cover secured by swing bolts. This is adaptable for higher pressure applications. For

medium size strainers, 8" to 16," a davit assembly bolted cover is available. This permits one operator to engage the hinge and open the cover.

## Backflush/backwash option

In systems with heavy, well-defined solids and sediment, this option backflushes the system without shutting the system down. A piping connection with an on/off backflush valve is fabricated at the strainer bottom and has a connection to the bottom of the strainer basket. When solids accumulate in the bottom of the basket, the backflush valve opens and the differential between the operating pressure and the backflush system removes the solids. The second step, backwashing, reverses the flow and removes residual dirt.

## Optional steam jacketing

Available in carbon steel or stainless steel rated for service up to 232 °C. This is ideal for the high temperatures required to process and transport heavy, viscous fluids without affecting the function or normal maintenance of the strainer. Steam jacketing maintains critical fluid temperature throughout the strainer.

Design and fabrication to "AD 2000-Merkblätter", DIN EN 13445 or ASME Code and ANSI B31.1 are available.



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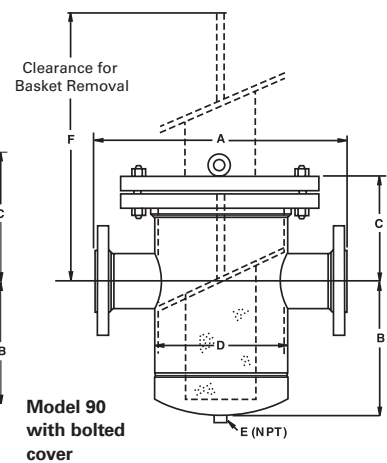
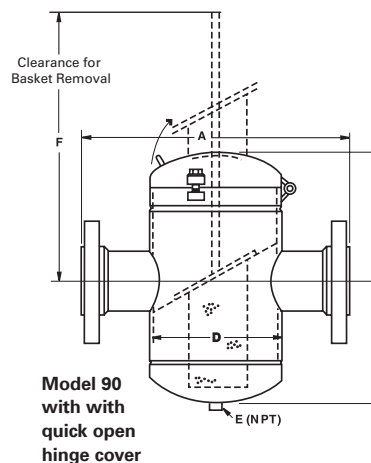
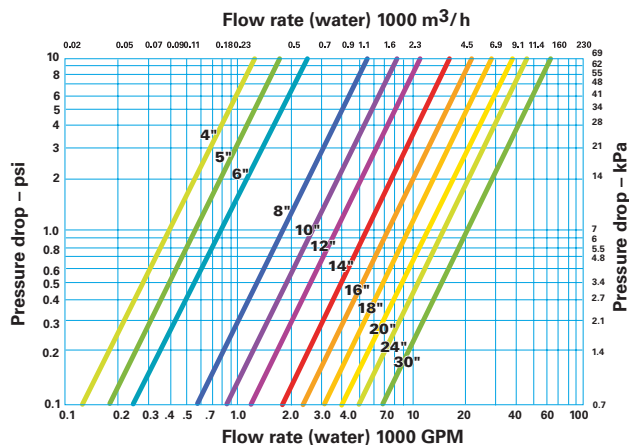
# Model 90 Fabricated Simplex Strainer

## Model 90 with quick open hinge cover

| Nom size | Dimensions (in / mm) |               |              |                 |              |       |           | Weight (kg) |                |       |                |
|----------|----------------------|---------------|--------------|-----------------|--------------|-------|-----------|-------------|----------------|-------|----------------|
|          | Class 150 A          | Class 300 A   | B            | Class 150/300 C | D            | E     | F         | Cover       | Class 150 Unit | Cover | Class 300 Unit |
| 2        | 14 / 356             | 14 / 356      | 12 / 305     | 8 5/8 / 219     | 6 5/8 / 168  | 1/2   | 26 / 660  | 2.7         | 32             | 2.7   | 41             |
| 3        | 15 / 381             | 15 / 381      | 12 1/2 / 318 | 8 5/8 / 219     | 6 5/8 / 168  | 1/2   | 26 / 660  | 2.7         | 33             | 2.7   | 48             |
| 4        | 16 / 406             | 16 / 406      | 14 / 356     | 9 1/2 / 241     | 8 5/8 / 219  | 1     | 21 / 533  | 4.1         | 55             | 4.1   | 72             |
| 5        | 16 / 406             | 17 1/2 / 445  | 15 / 381     | 11 1/4 / 286    | 10 3/4 / 273 | 1     | 22 / 559  | 4.1         | 58             | 4.1   | 80             |
| 6        | 20 / 508             | 21 / 533      | 17 / 432     | 11 1/4 / 286    | 10 3/4 / 273 | 1     | 24 / 610  | 5.4         | 76             | 5.4   | 107            |
| 8        | 22 / 559             | 23 / 584      | 21 / 533     | 13 / 330        | 12 3/4 / 324 | 1 1/2 | 28 / 711  | 6.8         | 103            | 6.8   | 126            |
| 10       | 32 / 813             | 33 / 838      | 25 / 635     | 15 3/4 / 400    | 16 / 406     | 1 1/2 | 33 / 838  | 14          | 163            | 14    | 219            |
| 12       | 35 / 889             | 36 / 914      | 28 / 711     | 17 3/4 / 451    | 18 / 457     | 1 1/2 | 39 / 991  | 17          | 243            | 17    | 333            |
| 14       | 37 / 940             | 38 / 965      | 33 / 838     | 19 3/4 / 502    | 20 / 508     | 2     | 45 / 1143 | 21          | 365            | 21    | 467            |
| 16       | 42 / 1067            | 43 / 1092     | 36 / 914     | 23 1/4 / 591    | 24 / 610     | 2     | 49 / 1245 | 31          | 539            | 31    | 652            |
| 18       | 42 / 1067            | 43 / 1092     | 39 / 991     | 23 1/4 / 591    | 24 / 610     | 2     | 53 / 1346 | 31          | 1569           | 31    | 704            |
| 20       | 43 / 1092            | 44 1/2 / 1130 | 44 / 1118    | 27 3/4 / 705    | 30 / 762     | 2     | 59 / 1499 | 32          | 600            | 32    | 751            |
| 24       | 48 / 1219            | 49 3/4 / 1264 | 60 / 1524    | 27 3/4 / 705    | 30 / 762     | 2     | 78 / 1981 | 40          | 844            | 40    | 1063           |

## Model 90 with bolted cover

| Nom.<br>size | Dimensions (in/ mm) |                   |              |                   |                   |              |       |           | Weight (kg) |                   |       |                   |
|--------------|---------------------|-------------------|--------------|-------------------|-------------------|--------------|-------|-----------|-------------|-------------------|-------|-------------------|
|              | Class<br>150<br>A   | Class<br>300<br>A | B            | Class<br>150<br>C | Class<br>300<br>C | D            | E     | F         | Cover       | Class 150<br>Unit | Cover | Class 300<br>Unit |
| 2            | 14 / 356            | 14 / 356          | 12 / 305     | 7 / 178           | 9 / 229           | 6 5/8 / 168  | 1/2   | 23 / 584  | 13          | 50                | 23    | 73                |
| 3            | 15 / 381            | 15 / 381          | 12 1/2 / 318 | 8 / 203           | 9 / 229           | 6 5/8 / 168  | 1/2   | 24 / 610  | 13          | 54                | 23    | 79                |
| 4            | 16 / 406            | 16 / 406          | 14 / 356     | 8 1/4 / 210       | 9 1/2 / 241       | 8 5/8 / 219  | 1     | 21 / 533  | 20          | 67                | 37    | 99                |
| 5            | 16 / 406            | 17 1/2 / 445      | 15 / 381     | 9 1/2 / 241       | 11 / 279          | 10 3/4 / 273 | 1     | 22 / 559  | 20          | 69                | 37    | 108               |
| 6            | 20 / 508            | 21 / 533          | 17 / 432     | 9 1/2 / 241       | 11 / 279          | 10 3/4 / 273 | 1     | 24 / 610  | 32          | 92                | 58    | 149               |
| 8            | 22 / 559            | 23 / 584          | 21 / 533     | 11 / 279          | 12 1/2 / 318      | 12 3/4 / 324 | 1 1/2 | 28 / 711  | 50          | 127               | 83    | 185               |
| 10           | 32 / 813            | 33 / 838          | 25 / 635     | 13 / 330          | 14 1/2 / 368      | 16 / 406     | 1 1/2 | 33 / 838  | 77          | 204               | 139   | 322               |
| 12           | 35 / 889            | 36 / 914          | 28 / 711     | 14 1/2 / 368      | 16 / 406          | 18 / 457     | 1 1/2 | 39 / 991  | 95          | 292               | 177   | 464               |
| 14           | 37 / 940            | 38 / 965          | 33 / 838     | 15 3/4 / 400      | 17 1/2 / 445      | 20 / 508     | 2     | 45 / 1143 | 123         | 431               | 223   | 634               |
| 16           | 42 / 1067           | 43 / 1092         | 36 / 914     | 18 1/4 / 464      | 20 / 508          | 24 / 610     | 2     | 49 / 1245 | 186         | 639               | 342   | 912               |
| 18           | 42 / 1067           | 43 / 1092         | 39 / 991     | 18 1/4 / 464      | 20 / 508          | 24 / 610     | 2     | 53 / 1346 | 186         | 674               | 342   | 965               |
| 20           | 43 / 1092           | 44 1/2 / 1130     | 44 / 1118    | 21 3/4 / 552      | 24 / 610          | 30 / 762     | 2     | 59 / 1499 | 186         | 704               | 342   | 1012              |
| 24           | 48 / 1219           | 49 3/4 / 1264     | 60 / 1524    | 21 3/4 / 552      | 24 / 610          | 30 / 762     | 2     | 78 / 1981 | 309         | 1039              | 636   | 1586              |



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