

Model 510



- Sizes 8" to 36"
- Iron or carbon steel
- Flanged

Features

- Four baskets per strainer
- Bolted cover
- Straight through flow design
- Compact
- Threaded drain
- Perforated or mesh 316 stainless steel basket
- Low profile for easy basket removal

Options

- Basket perforations from 1/32" to 1/2"
- Basket mesh of 20, 40 or 60
- MONEL® baskets
- Drain valves
- Gauge taps - 1/4" NPT
- Basket flange gaskets
- Cover lift davit
- Stainless steel construction
- Magnetic basket inserts
- Pressure differential gauges and switches



For large size piping systems with flow rates up to 40,000 GPM (9,000 m³/h)

The Eaton Model 510 simplex strainer is unlike other large size simplex strainers because of its multi-basket design. Four strainer baskets strain the process media and give the strainer an extremely high dirt-holding capacity—an important consideration in larger size strainers that, because of their size and design, take longer for basket cleaning or changeout. The longer the strainer stays in service between cleaning, the less expensive its total operating costs.

Reduced pressure loss

To reduce the pressure loss to an absolute minimum, the Model 510 has a straight through flow configuration, made possible by a unique basket design that incorporates a slanted top.

Multi-basket design

The use of four baskets, rather than one or two, helps to keep operating costs low because the size of each basket can be smaller. This means that cleaning is a one-person job, eliminating the need for additional operators or lifting tackle to pull the baskets out of the strainer housing.

To make this job even faster and easier, the Model 510 has an optional cover lifting davit. The operator can raise the strainer cover and swing it out of the way for access to the strainer baskets. The four-basket design of the Model 510 provides an additional benefit as well: the centerline to bottom and centerline to top dimensions of the strainer are very short—creating a low-profile design ideally suited for installation in cramped quarters.

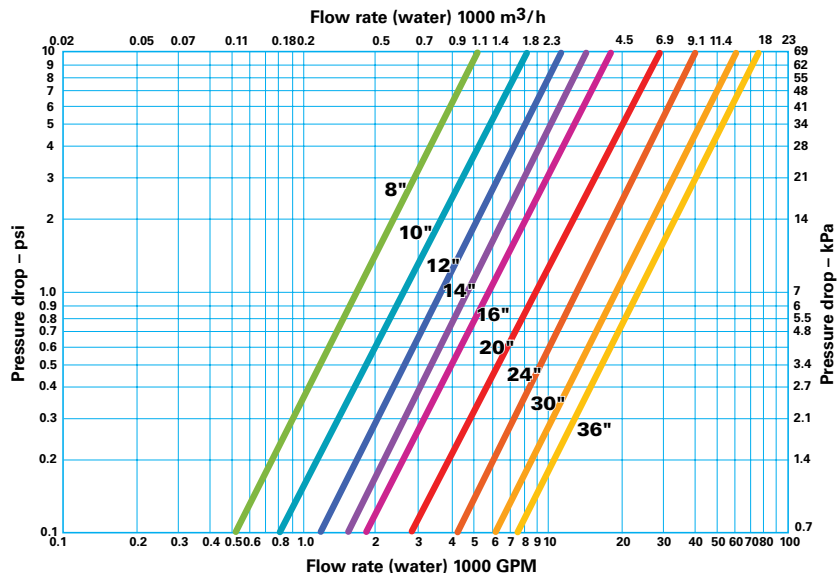
For large size piping systems with high flow rates, the Model 510 offers significant advantages over ordinary large size strainers, advantages that will improve performance and reduce operating costs over the life of the strainer.

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Model 510 Multi-Basket Strainer



Selection chart

| Size | Material | End connections | Gasket | Pressure rating* |
|------------|--------------|-----------------|--------------|--------------------|
| 8" to 24" | Iron | Flanged 125# | Non-asbestos | 125 psi (8.6 bar) |
| 30" to 36" | Iron | Flanged 125# | Non-asbestos | 70 psi (4.8 bar) |
| 8" to 24" | Carbon steel | Flanged 150# | Non-asbestos | 150 psi (10.3 bar) |
| 8" to 16" | Carbon steel | Flanged 300# | Non-asbestos | 300 psi (20.7 bar) |

* @ 100 °F (38 °C)

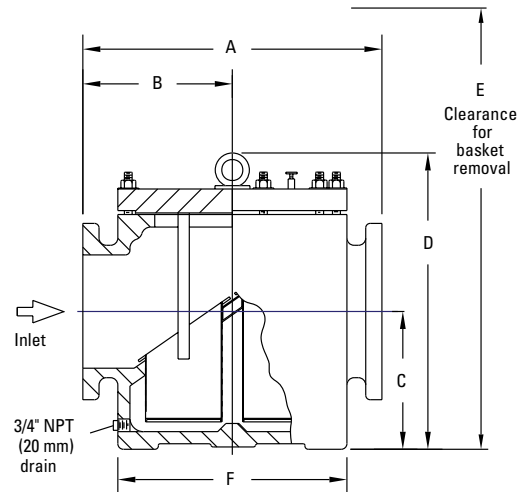
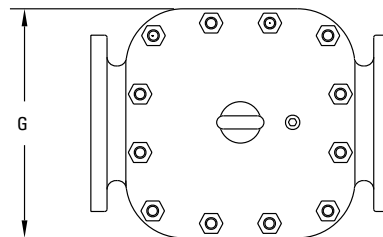
Cv factors*

| Size | Value | Size | Value | Size | Value |
|------|-------|------|-------|------|--------|
| 8" | 1600 | 14" | 4800 | 24" | 13000 |
| 10" | 2500 | 16" | 5800 | 30" | 19000 |
| 12" | 3500 | 20" | 9000 | 36" | 23000* |

*For water with clean, perforated basket

Dimensions (in/mm)

| Pipe size | A | B | C | D | E | F | G | -----Dry wt (lb / kg) ----- Iron | Carbon steel |
|-----------|--------------|-------------|--------------|--------------|------------|--------------|--------------|-------------------------------------|--------------|
| 8 | 23.25 / 591 | 11.63 / 295 | 9.13 / 232 | 20.13 / 511 | 38 / 965 | 18.00 / 457 | 18.50 / 470 | 547 / 249 | 547 / 249 |
| 10 | 26.13 / 664 | 13.06 / 332 | 11.38 / 289 | 23.75 / 603 | 44 / 1118 | 20.25 / 514 | 21.00 / 533 | 730 / 332 | 730 / 332 |
| 12 | 29.00 / 737 | 14.50 / 368 | 14.63 / 372 | 28.38 / 721 | 52 / 1321 | 22.25 / 565 | 22.75 / 578 | 1080 / 491 | 1080 / 491 |
| 14 | 30.50 / 775 | 15.25 / 387 | 16.75 / 425 | 31.25 / 794 | 60 / 1524 | 24.63 / 626 | 25.13 / 638 | 1360 / 618 | 1360 / 618 |
| 16 | 33.50 / 851 | 16.75 / 425 | 19.13 / 486 | 35.50 / 902 | 66 / 1676 | 27.13 / 689 | 27.75 / 705 | 1750 / 795 | 1750 / 795 |
| 20 | 44.75 / 1137 | 22.00 / 559 | 28.50 / 724 | 46.25 / 1175 | 88 / 2235 | 32.75 / 832 | 34.75 / 883 | 3330 / 1514 | 3330 / 1514 |
| 24 | 44.38 / 1127 | 22.19 / 564 | 31.50 / 800 | 52.25 / 1327 | 98 / 2489 | 36.63 / 930 | 38.50 / 978 | 4550 / 2068 | 4550 / 2068 |
| 30 | 61.50 / 1562 | 30.75 / 781 | 41.63 / 1057 | 66.50 / 1689 | 125 / 3175 | 47.50 / 1207 | 47.50 / 1207 | 8880 / 4036 | 8880 / 4036 |
| 36 | 62.00 / 1575 | 31.00 / 787 | 41.63 / 1057 | 66.50 / 1689 | 125 / 3175 | 47.50 / 1207 | 47.50 / 1207 | 9700 / 4409 | 9700 / 4409 |



Dimensions and weights are for reference only. Contact Eaton for certified drawings.

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