Automatic Self-cleaning Strainers

Model 2596
10"-60"

Pipeline Strainer | Fabricated Construction | Permanent Media

Model 2596 20"

Eaton's Model 2596 fabricated automatic self-cleaning pipeline strainers are available in 10", 12", 14", 16", 18", 20", 24", 30", 36", 48" and 60" sizes. Continuous flow, simplified maintenance and worry-free operation characterize the Model 2596 across numerous industries.

Features / benefits

- Flow rates up to 35,000 gpm (7,949 m^3/h)
- A broad selection of screen options
- Automatic backwashing
- Exclusive idL™ seal for leak free service, available up to 24" only
- Unitized modular assembly for easy maintenance
- Fabricated carbon steel construction

Options

- Various grades of stainless steel, copper nickel, MONEL® and other exotic materials of construction
- "AD 2000-Merkblätter", DIN EN 13446 or ASME Code and approval according to PED 97/23/EU (modules H, H1 or G) available
- Flanged, screwed or socket weld backwash connections
- Internal and external epoxy paint or other coatings, upon request, on all carbon steel components for fresh water service applications
- Custom designs are available upon request

MONEL® is a registered trademark of Special Metals Corporation group of Companies.

The Eaton Model 2596 automatic self-cleaning strainer is designed for the continuous removal of entrained solids from liquids in pipeline systems.

With an automated control system monitoring the strainer operation, cleaning is accomplished by an integral backwash system. A small portion of the screen element is isolated and cleaned by reverse flow while the remaining screen area continues to strain—providing uninterrupted flow. This efficient design uses only a small amount of the liquid being strained to carry debris away from the strainer element.

The Model 2596 features the idL shaft seal that positively prevents leakage from the backwash shaft at the top of the strainer. This unique quad seal keeps the exterior of the strainer dry and prevents external leakage or weeping of the process media down the sides of the strainer.

To simplify maintenance the Model 2596 features a unitized modular assembly. The motor, gear reducer and the internal operating mechanism are housed within the strainer cover and lift off as a unit. This makes all components easily accessible and reduces associated maintenance costs.

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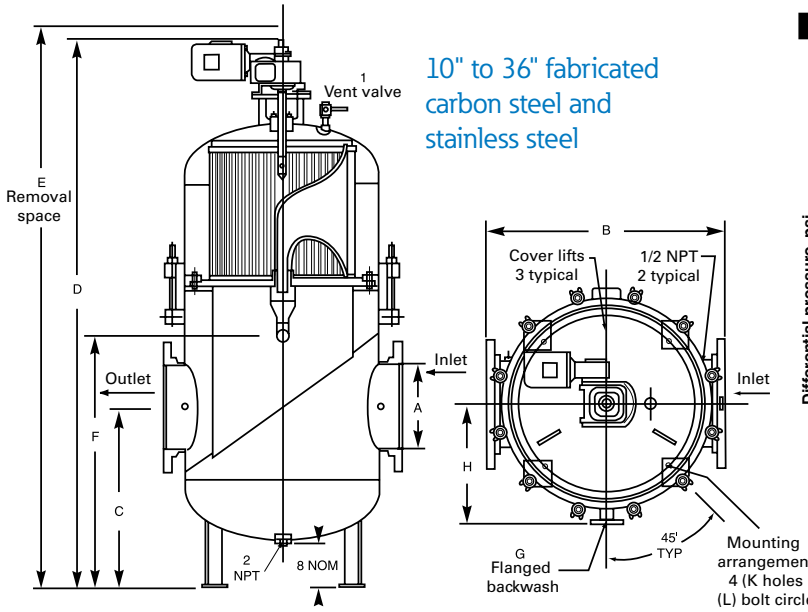
Model 2596 10" to 60" Fabricated Automatic Self-cleaning Strainers



10" to 36" fabricated carbon steel and stainless steel

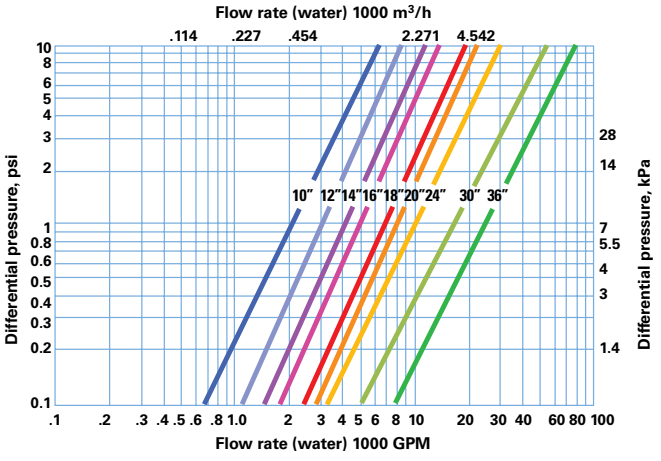
Dimensions are for reference only. For installation purposes, request certified drawings.

Note:

K= Diameter bolt hole (4) required 90° apart

L= Diameter bolt circle

Model 2596 10" - 36" flow rates



Pressure drop data indicates results to be expected with clean water, under normal flows with standard screens and in clean strainer.

	Approximate dimensions (in / mm)									Approximate weight (lb/kg)		
A	B	C	D	E	F	G	H	K	L	Dry	Wet	Cover
10"	38 / 965	30 / 762	88 / 2235	90 / 2286	40 / 1016	2 / 50.8	16 / 406	3/4 / 19.05	22-13/100 / 562	1200 / 544	2400 / 1089	650 / 295
12"	42 / 1067	30 / 762	88 / 2235	90 / 2286	40 / 1016	2 / 50.8	18 / 457	3/4 / 19.05	26-13/100 / 664	1300 / 590	2700 / 1225	700 / 318
14"	44 / 1118	32 / 813	101 / 2565	103 / 2616	46 / 1168	2 / 50.8	22 / 559	7/8 / 22.23	32-13/100 / 816	2000 / 907	4400 / 1996	850 / 386
16"	44 / 1118	33 / 838	101 / 2565	103 / 2616	46 / 1168	2 / 50.8	22 / 559	7/8 / 22.23	32-13/100 / 816	2050 / 930	4450 / 2019	850 / 386
18"	50 / 1270	36 / 914	117 / 2972	120 / 3048	48 / 1219	3 / 76.2	23 / 584	7/8 / 22.23	34-13/100 / 867	3500 / 1588	8300 / 3765	1280 / 581
20"	54 / 1372	37 / 940	120 / 3048	123 / 3124	50 / 1270	3 / 76.2	25 / 635	7/8 / 22.23	38-13/100 / 969	3700 / 1678	10000 / 4536	1480 / 671
24"	54 / 1372	39 / 991	124 / 3150	127 / 3226	54 / 1372	3 / 76.2	25 / 635	7/8 / 22.23	38-13/100 / 969	3830 / 1737	10160 / 4609	1480 / 671
30"	64 / 1626	51 / 1295	147 / 3734	151 / 3835	76 / 1930	3 / 76.2	30 / 762	7/8 / 22.23	48-13/100 / 1223	5000 / 2268	13400 / 6078	2000 / 907
36"	84 / 2134	56 / 1422	176 / 4470	182 / 4623	72 / 1829	6 / 152.4	37 / 940	1-1/8 / 28.58	66 / 1676	9360 / 4246	24735 / 11220	4520 / 2050

48" and 60" can be fabricated upon request, consult Eaton.

Sizes 10" to 60"

Application limits

- Fabricated strainers are designed within the limits of the customer's specifications and design criteria along with any applicable code requirement, e.g. "AD 2000-Merkblätter", DIN EN 13446 or ASME Code.

Specific descriptions and construction details illustrated may vary slightly from equipment furnished. Eaton reserves the right to revise or discontinue equipment or design features without notice. Eaton recommends that you review performance and application data with us prior to final design.

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