

## Automatic Self-Cleaning Strainers

# 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 (7949 m<sup>3</sup>/hr)
- A broad selection of screen options
- Automatic backwashing for operator-free service and minimal backwash effluent
- 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
- ASME Section VIII, Div. 1. code stamp 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

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.

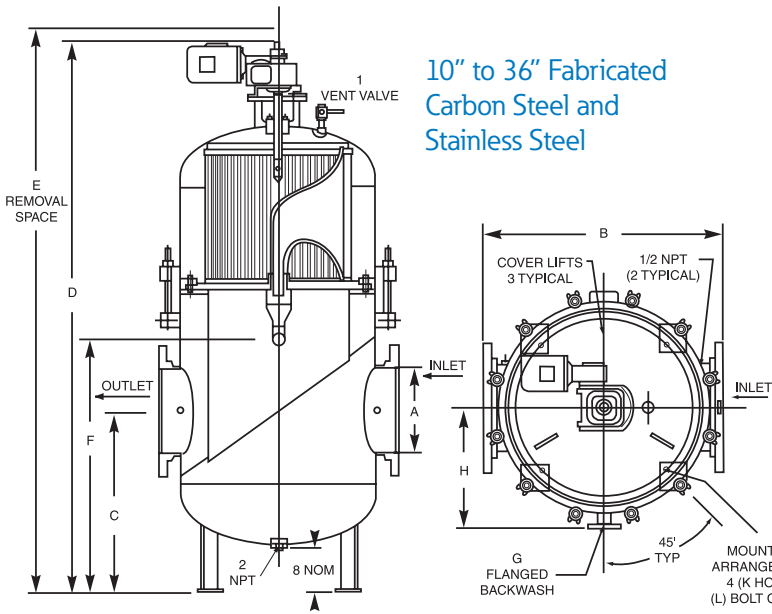
To simplify maintenance the Model 2596 features a unitized modular assembly. The motor, gear reducer, and the internal operating mechanism are housed within the strainer cover and lift off as a unit. This makes all components easily accessible and reduces associated maintenance costs.

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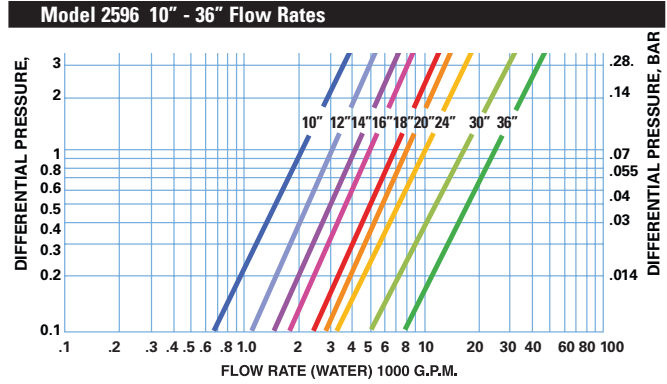
# Model 2596 10" to 60" Fabricated Automatic Self-Cleaning Strainers

## 10" to 36" Fabricated Carbon Steel and Stainless Steel



Note:  
 K= Diameter Bolt Hole (4) Required 90° Apart  
 L= Diameter Bolt Circle

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



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

Approximate Dimensions (in)	Approximate Weight (lb)												
	A	B	C	D	E	F	G	H	K	L	Dry	Wet	Cover
10"	38	30	88	90	40	2	16	3/4	22	13/100	1,200	2,400	650
12"	42	30	88	90	40	2	18	3/4	26	13/100	1,300	2,700	700
14"	44	32	101	103	46	2	22	7/8	32	13/100	2,000	4,400	850
16"	44	33	101	103	46	2	22	7/8	32	13/100	2,050	4,450	850
18"	50	36	117	120	48	3	23	7/8	34	13/100	3,500	8,300	1,280
20"	54	37	120	123	50	3	25	7/8	38	13/100	3,700	10,000	1,480
24"	54	39	124	127	54	3	25	7/8	38	13/100	3,830	10,160	1,480
30"	64	51	147	151	76	3	30	7/8	48	13/100	5,000	13,400	2,000
36"	84	56	176	182	72	6	37	1 1/8	66		9360	24,735	4,520

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

### Sizes 10" Thru 60"

#### Application Limits

- Fabricated strainers are designed within the limits of the customer's specifications and design criteria along with any applicable code requirement, i.e. ASME Section VIII Div. 1.

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

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