

# Model 2596

## 2"-8"

*Eaton's Model 2596 automatic self-cleaning cast pipeline strainers are available in 2", 3", 4", 6" and 8" sizes. A 4"L size is also available which allows for greater flow rates. The Model 2596 is recognized across industries for its continuous flow, simplified maintenance and worry-free operation.*



### Features / benefits

- Flow rates up to 409 m<sup>3</sup>/h
- A broad selection of screen options
- Automatic backwashing
- Exclusive idL™ seal for leak free service
- Unitized modular assembly for easy maintenance
- Cenpeller™ technology for more efficient and complete backwashing
- Cast iron or stainless steel construction
- Standard motor

### Options

- 25 micron and 40 micron stainless steel element with a flow rate of up to 218 m<sup>3</sup>/h

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.

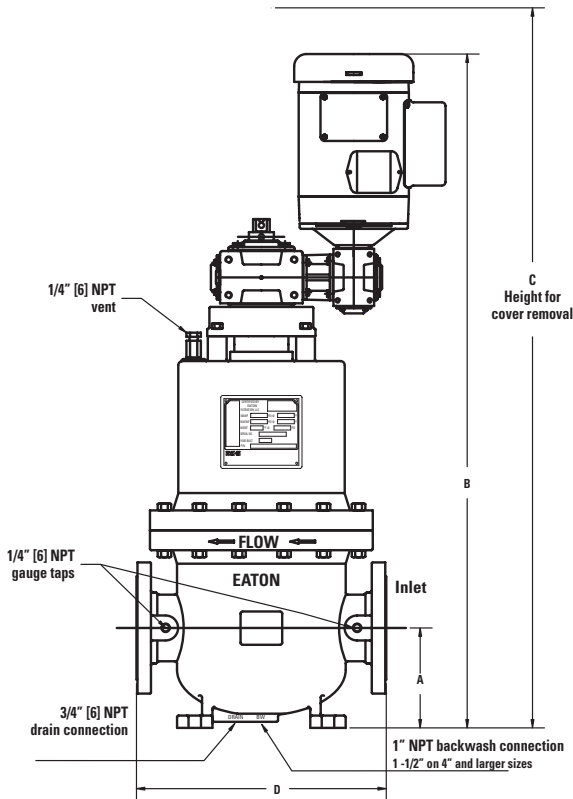
The 2" to 8" size strainers feature Eaton's Cenpeller technology, which directs incoming liquid into a circular flow—forcing the debris to lay up against the surface of the strainer element in a way that makes backwashing easier and more efficient and greatly reduces the need for manual cleanouts.

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.

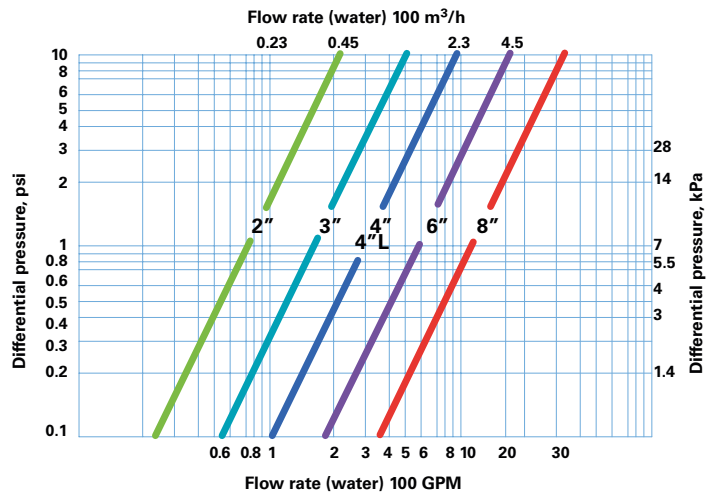


Powering Business Worldwide

# Model 2596 2" to 8" Automatic Self-cleaning Strainers



## Model 2596 2" - 8" flow rates



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

Size	Approximate dimensions (in/mm)				Approximate weight (kg)		
	A	B	C	D	Dry	Wet	Cover
2"	6 / 152	40-1/2 / 1029	42-1/2 / 1080	15 / 381	149	173	74
3"	6 / 152	40-1/2 / 1029	42-1/2 / 1080	15 / 381	156	181	74
4"	7 / 178	42 / 1067	44 / 1118	15 / 381	160	187	74
4" L	8 / 203	52 / 1321	55 / 1397	23-1/2 / 597	365	453	199
6"	8 / 203	55 / 1397	58 / 1473	23-1/2 / 597	379	490	199
8"	8 / 203	55 / 1397	58 / 1473	23-1/2 / 597	409	512	199

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

## Screen elements

### DuraWedge® element

DuraWedge is a nonclogging, rugged stainless steel element for the most demanding applications. It is constructed from V-shaped profile wire. A wide range of opening sizes is available.



### Convuluted element

A sturdy, economical stainless steel element for general service use. Available perforated openings of 1/8", 1/16" and 1/32". Available mesh sizes of 20, 40, 60, 80, 100, 150 and 200 mesh.



### Low micron element

Stainless steel with a high degree of permeability will substantially lower pressure differential, increase flow capacity and extend the filter life. Sintered mesh construction prevents media migration into processed product. Available in 25 µm and 40 µm retention.



### C<sub>v</sub> factors 25 µm

Size	Value
2"	76
3"	156
4"	233
4L"	272
6"	528
8"	708

### C<sub>v</sub> factors 40 µm

Size	Value
2"	77
3"	163
4"	260
4L"	288
6"	605
8"	887

## Application limits

- Cast iron class 125 flange (-29 to 65 °C): 13.8 bar (2" - 8")
- Cast 316 stainless steel class 150 flange (-29 to 38 °C): 19 bar (2" - 4")

For more information, please email us at [filtration@eaton.com](mailto:filtration@eaton.com) or visit [www.eaton.com/filtration](http://www.eaton.com/filtration)

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