

## Large Duplex Basket Strainer

# Model 52

Pipeline  
Strainer

Cast  
Construction

Permanent  
Media

- Sizes 10" to 18"
- Iron and bronze
- Flanged



### Features

- Continuous flow, no shutdown for basket cleaning
- Compact butterfly valve design
- Quick opening covers
- Convoluted design baskets
- Threaded drain
- Perforated or mesh stainless steel baskets
- Vent
- Positive shutoff

### Options

- Ductile iron construction
- Basket perforations from 1/32" to 1/2"
- Basket mesh of 20, 40 or 60
- MONEL® baskets
- Vent valves
- Drain valves
- Gauge taps 1/4" NPT
- Pressure differential gauge and switch connections
- Magnetic basket inserts

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

### The butterfly valve advantage

The Eaton Model 52 duplex strainer's design large size with high flow rates benefit from a set of synchronized, high-quality, butterfly valves that minimize the effort to switch the flow from one basket chamber to the other.

The valve replaces the diverter plug used on smaller size strainers and gives a straight flow pattern with no sudden changes in flow direction. The result is a very low pressure loss. A 10" strainer of this type can handle 2,000 gpm (454 m<sup>3</sup>/h) of water with a pressure drop of only 2 psi (0.14 bar). This is the strainer to choose for high flow rate applications when a low-pressure loss is critical.

### Unique basket design

The Model 52 incorporates a larger screening area by convoluting (pleating) the perforated sheet in the strainer basket, thus increasing the available screening area while reducing the total basket size.

The flow enters the basket from the side, not the top, resulting in a straight through flow pattern. This means a lower pressure drop and greater time between basket cleanings than would be possible with standard design baskets—a substantial savings in time and operating costs.

### Compact design

Lighter weight and a smaller profile make this strainer ideal for situations when space requirements are tight.

### Easy to operate

- A single hand wheel operator can be on either side of the strainer if accessibility is a problem.
- An arrow on the top of the gear housing indicates which basket chamber is in service and which is ready for cleaning.
- Quick opening covers make strainer basket changing or cleaning quick and easy with no tools or lifting gear.

# EATON

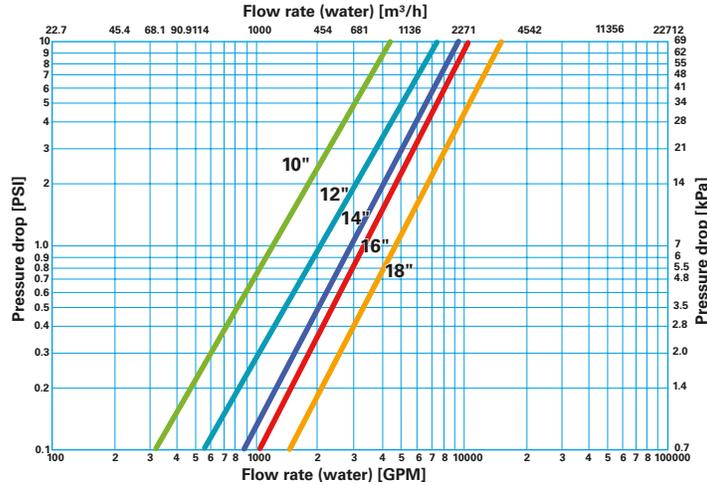
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## Selection chart

Size	Material	End connection	Seals	Pressure rating*
10" to 12"	Iron	Flanged 125#	Buna-N®	200 psi (13.8 bar)
10" to 12"	Bronze	Flanged 150#	Buna-N	200 psi (13.8 bar)
14" to 18"	Iron	Flanged 125#	Buna-N	150 psi (10.3 bar)
14" to 18"	Bronze	Flanged 150#	Buna-N	150 psi (10.3 bar)

\* @ 100 °F (38 °C)

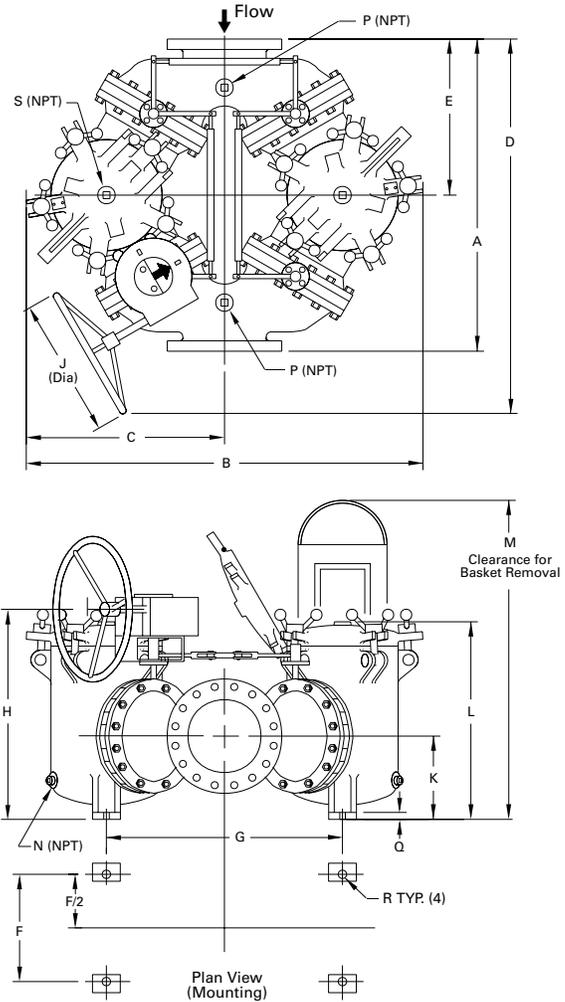


## Cv factors\*

Size	Value	Size	Value
10"	1300	16"	3400
12"	2000	18"	4900
14"	2900		

\* For water with clean, perforated basket

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



## Dimensions (in/mm)

Pipe size	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	Wt (lb / kg)
10	45	51	26	52	22-1/2	19	32	30-1/4	18	12-3/16	29	49	1-1/2	1/2	1	1	1/4	1600
	1143	1295	660	1321	572	483	813	768	457	310	737	1245	-		32	32	-	727
12	62	64	32	66	31	23	41	36-5/8	16	16-3/4	38	66	1-1/2	1/2	1	1	1/4	2650
	1574	1626	813	1676	787	584	1041	924	406	425	965	1676	-		32	32	-	1205
14	72	76	38	79	35-1/2	27	48	44-3/4	24	18-3/4	44-1/2	77	1-1/2	1/2	1	1	1/4	4300
	1829	1930	965	2007	902	686	1219	1137	610	476	1130	196	-		32	32	-	1955
16	72	76	38	79	35-1/2	27	48	44-3/4	24	18-3/4	44-1/2	77	1-1/2	1/2	1	1	1/4	4400
	1829	1930	965	2007	902	686	1219	1137	610	476	1130	196	-		32	32	-	2000
18	72	76	38	79	35-1/2	27	48	44-3/4	24	18-3/4	44-1/2	77	1-1/2	1/2	1	1	1/4	4600
	1829	1930	965	2007	902	686	1219	1137	610	476	1130	196	-		32	32	-	2087

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