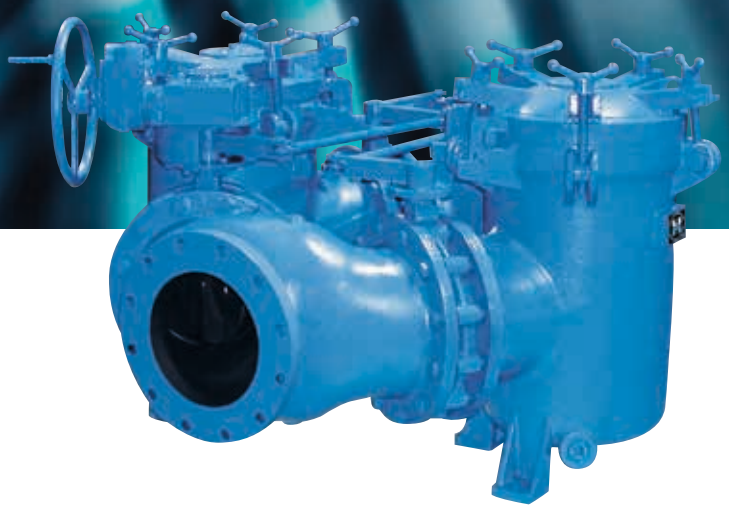
Large Duplex Basket Strainer

Pipeline Strainer | Cast Construction | Permanent Media

Model 52





- 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 454 m³/h of water with a pressure drop of only 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.

For more information:

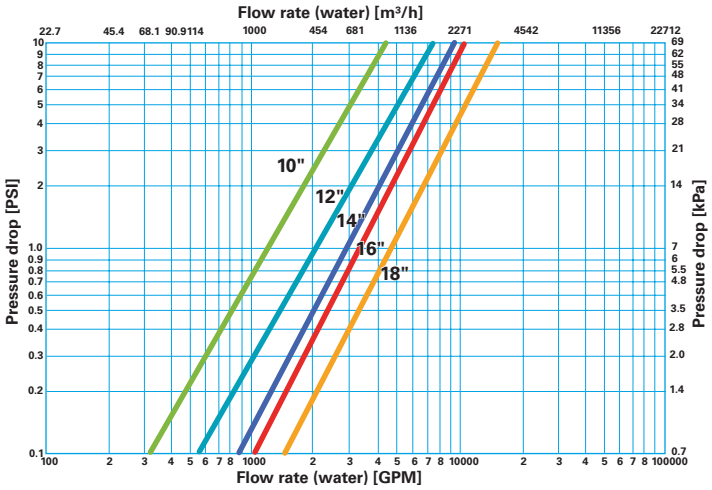
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FLTR Purple Engineering

Model 52 Large Duplex Basket Strainer

Selection chart

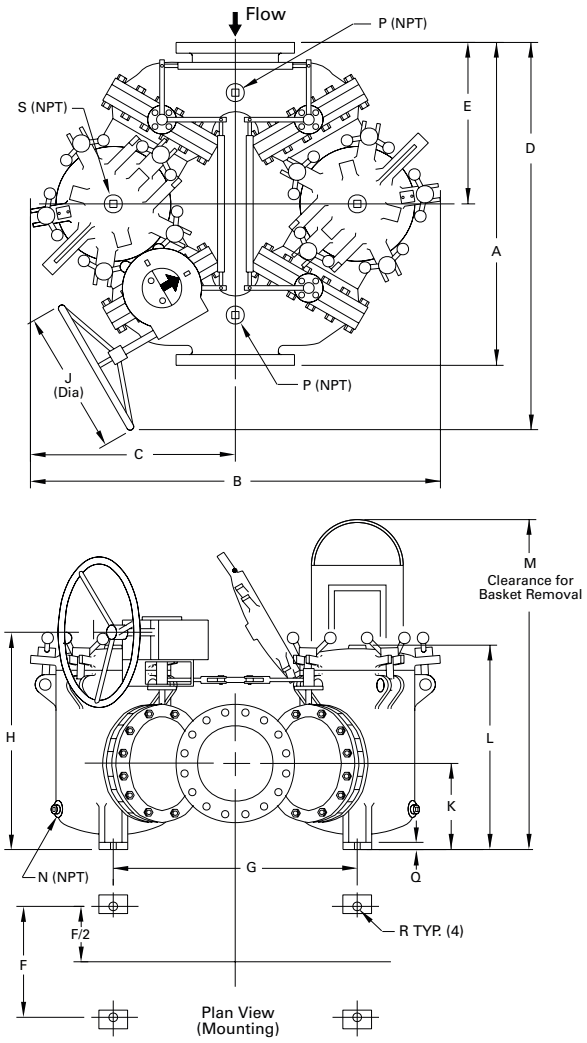
Size	Material	End connection	Seals	Pressure rating
10" to 12"	Iron	Flanged 125#	Buna-N®	13.8 bar @ 38 °C
10" to 12"	Bronze	Flanged 150#	Buna-N	13.8 bar @ 38 °C
14" to 18"	Iron	Flanged 125#	Buna-N	10.3 bar @ 38 °C
14" to 18"	Bronze	Flanged 150#	Buna-N	10.3 bar @ 38 °C



C_V 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 (kg) Iron	Wt (kg) Bronze
10	45 1143	51 1295	26 660	52 1321	22-1/2 572	19 483	32 813	30-1/4 768	18 457	12-3/16 310	29 737	49 1245	1-1/2 –	1/2	1 32	1 32	1/4 –	727	910
12	62 1574	64 1626	32 813	66 1676	31 787	23 584	41 1041	36-5/8 924	16 406	16-3/4 425	38 965	66 1676	1-1/2 –	1/2	1 32	1 32	1/4 –	1205	1508
14	72 1829	76 1930	38 965	79 2007	35-1/2 902	27 686	48 1219	44-3/4 1137	24 610	18-3/4 476	44-1/2 1130	77 196	1-1/2 –	1/2	1 32	1 32	1/4 –	1955	2447
16	72 1829	76 1930	38 965	79 2007	35-1/2 902	27 686	48 1219	44-3/4 1137	24 610	18-3/4 476	44-1/2 1130	77 196	1-1/2 –	1/2	1 32	1 32	1/4 –	2000	2504
18	72 1829	76 1930	38 965	79 2007	35-1/2 902	27 686	48 1219	44-3/4 1137	24 610	18-3/4 476	44-1/2 1130	77 196	1-1/2 –	1/2	1 32	1 32	1/4 –	2087	–

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