

MODEL 53BTX **EATON**

BALL TYPE DUPLEX BASKET STRAINERS

IRON, CARBON STEEL OR STAINLESS STEEL CONSTRUCTION

FEATURES & BENEFITS

- Dynamic sealing design for long life
- Easy-to-operate lever handle; no gear box required
- Unique seat and seal design requires no adjustments
- PTFE seats for longer service life
- Foot pads for rock solid installation
- Double-stem O-rings for positive sealing
- Easy to access body vent valve
- Side drain plugs on each basket well
- Piston seal strainer basket cover
- Easy access for diverter cartridge removal
- 316 stainless steel ball design

CONTINUOUS OPERATION

Eaton's model 53BTX duplex basket strainer can operate continuously, eliminating the need to shut down processes for cleaning of strainers. When the first basket is full, a unique flow diverter cartridge shifts flow to a second basket to permit removal and cleaning with no interruption to operations.

Draining this chamber is easy; the cover lifts and swings clear of the chamber opening with no special tools required.

The unique flow diverter cartridge prevents fluid bypass into the out-of-service chamber. It features a dynamic sealing system that ensures exceptionally long seat life and positive sealing. Manual internal or external ball support adjustments are not necessary.



A double sealing system on the upper and lower stems guards against any possible leakage. If service becomes necessary, just remove four bolts and the cartridge slides right out the top of the strainer body.



Unique diverter cartridge assures leak-tight isolation of basket chamber during cleaning.



OPTIONS

- Basket perforations from 1/32" to 1/2"
- Basket mesh from 20 to 400
- Differential pressure gauges, with or without switches
- Magnetic separators installed in the strainer basket for removing fine ferrous particulate matter from the process media

APPLICATIONS

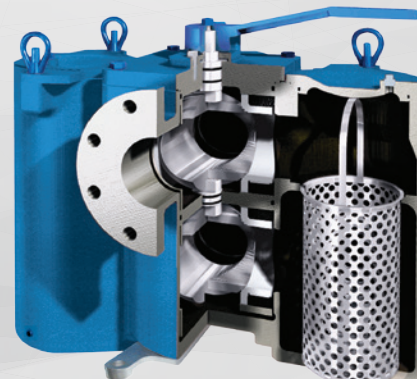
Duplex or double basket strainers are valuable in locations in which it is impossible to shut off flow to stop the operation. Examples of these processes include cleaning fuel oil in large industrial oil burners, all types of marine applications, screening water in cooling towers, and straining fluids in continuously running chemical operations.

SIZE & MATERIAL

The compact, low-profile Model 53BTX fits into spaces ordinary strainers may not, yet it still uses full-size strainer baskets with a low-pressure drop performance. Eaton offers basket openings from 3/4" down to 45 microns. Type 316 stainless steel is standard.

EASY BASKET SERVICING

One drain plug is on each side of the basket. Additionally, an easy to access vent valve is on top of each basket well cover. Standard foot mounting pads ensure a rock solid installation no matter where the strainer operates.



SIZES
3/4", 1", 1 1/4", 1 1/2",
2", 2 1/2", 3", 4"



MATERIALS
Iron, Carbon Steel,
Stainless Steel



PORTS
Threaded or Flanged

VIKING PUMP

SELECTION CHART

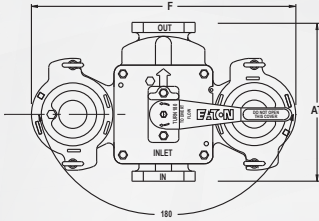
Size	Body & Cartridge Material	End Connections	Seat / Seal	Diverter Balls
3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2"	Iron	Threaded	PTFE/Buna-N*	Stainless Steel
3/4", 1", 1-1/4", 1-1/2", 2"	Carbon Steel	Threaded	PTFE/Buna-N*	Stainless Steel
3/4", 1", 1-1/4", 1-1/2", 2"	Stainless Steel	Threaded	PTFE/Viton™	Stainless Steel
1", 1-1/2", 2", 2-1/2", 3", 4"	Iron	Flanged 125#	PTFE/Buna-N*	Stainless Steel
1", 1-1/2", 2", 2-1/2", 3", 4"	Carbon Steel	Flanged 150#	PTFE/Buna-N*	Stainless Steel
1", 1-1/2", 2", 2-1/2", 3", 4"	Stainless Steel	Flanged 150#	PTFE/Viton™	Stainless Steel

PRESSURE RATING

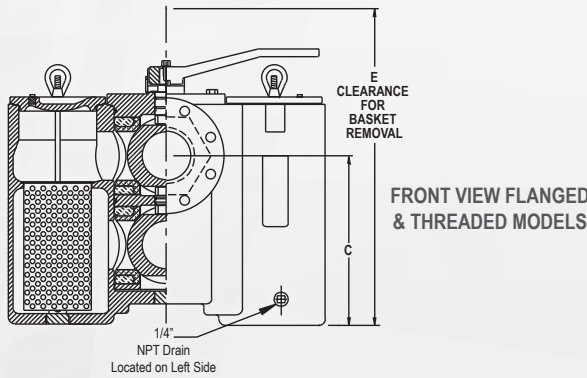
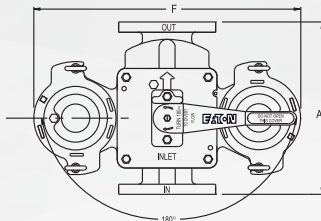
Size	Rating
3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4"	200 psi @ 100°F

Viton™ is a registered trademark of DuPont Performance Elastomers.
* Viton™ standard for SSTL, optional for iron, bronze and carbon steel.

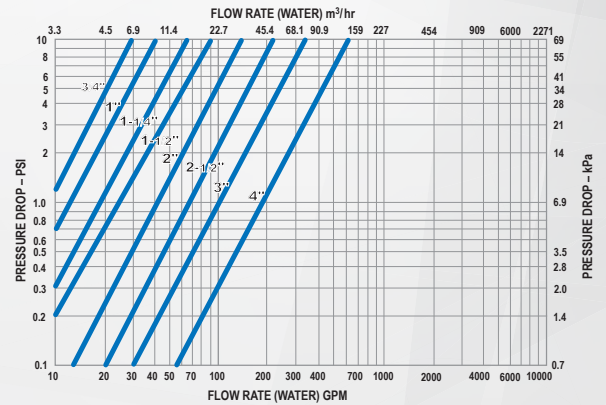
TOP VIEW THREADED MODEL



TOP VIEW FLANGED MODEL



Dimensions and weights are for reference only.



DIMENSIONS - IN (MM)

WEIGHT - LB (KG)

Pipe Size	AF	AT	C	E	F	G	H	J	K	L	IRON		CARBON & SS	
											FLANGED	THREADED	FLANGED	THREADED
3/4	—	5.50 (140)	5.00 (127)	13.38 (340)	10.50 (268)	3.25 (83)	2.13 (54)	1.63 (41)	2.75 (70)	3/8	—	37 (17)	—	41 (19)
1	6.88 (175)	5.50 (140)	5.00 (127)	13.38 (340)	10.50 (268)	3.25 (83)	2.13 (54)	1.63 (41)	2.75 (70)	3/8	42 (19)	37 (17)	47 (21)	41 (19)
1 1/4	6.88 (175)	7.50 (190)	6.81 (173)	17.00 (432)	13.25 (330)	3.25 (83)	2.13 (54)	1.63 (41)	2.75 (70)	3/8	—	80 (36)	—	89 (40)
1 1/2	9.38 (238)	7.50 (190)	6.81 (173)	17.00 (432)	13.25 (330)	3.25 (83)	2.13 (54)	1.63 (41)	2.75 (70)	3/8	90 (41)	80 (36)	100 (45)	89 (40)
2	10.63 (270)	10.00 (254)	8.38 (213)	21.75 (552)	17.38 (441)	4.69 (119)	2.50 (64)	1.81 (46)	4.00 (102)	5/8	167 (76)	157 (71)	185 (84)	174 (79)
2 1/2	10.75 (273)	10.00 (254)	8.38 (213)	21.75 (552)	17.37 (441)	4.69 (119)	2.50 (64)	1.81 (46)	4.00 (102)	5/8	183 (83)	157 (71)	203 (92)	—
3	13.50 (343)	—	8.88 (226)	26.50 (673)	22.75 (578)	4.69 (119)	2.50 (64)	1.81 (46)	4.00 (102)	5/8	285 (129)	—	432 (196)	—
4	16.00 (406)	—	13.25 (337)	33.00 (838)	24.75 (629)	5.19 (132)	3.94 (100)	3.25 (83)	4.50 (114)	5/8	389 (177)	—	432 (196)	—

VIKING PUMP

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