

Tate Andale Model ECA Self-Cleaning Strainer



Description

Tate Andale Model **ECA** strainers consist of a single cast iron body which contains a divided straining element. The straining element is a cylindrical basket with a vertical partition. The partition creates two separate straining chambers, the top-entry of each chamber is semi-circular in shape. The strainer has a diverter valve, semi-circular in shape which effectively diverts the flow to one of the straining chambers. The diverter valve is electrically operated.

The Model **ECA** strainer is offered with 2" thru 24" inlets and for operating pressures from 15 to 125 PSIG. A wellscreen straining element is provided.

The Model **ECA** strainer is especially suited for special body coatings. There are no parts that move in contact with the body to scrape or wear off the coating.

When fully automatic operation is required, the **ECA** is installed with its control system. Upon a preset pressure drop measured across the compartment in service an electric actuator rotates the diverter valve, blocking flow to that element section and directing it to the clean section. The controls automatically flush the dirty compartment and reset themselves. Clean flushing water for the dirty section of the element is obtained from the discharge side of the strainer without any additional piping.



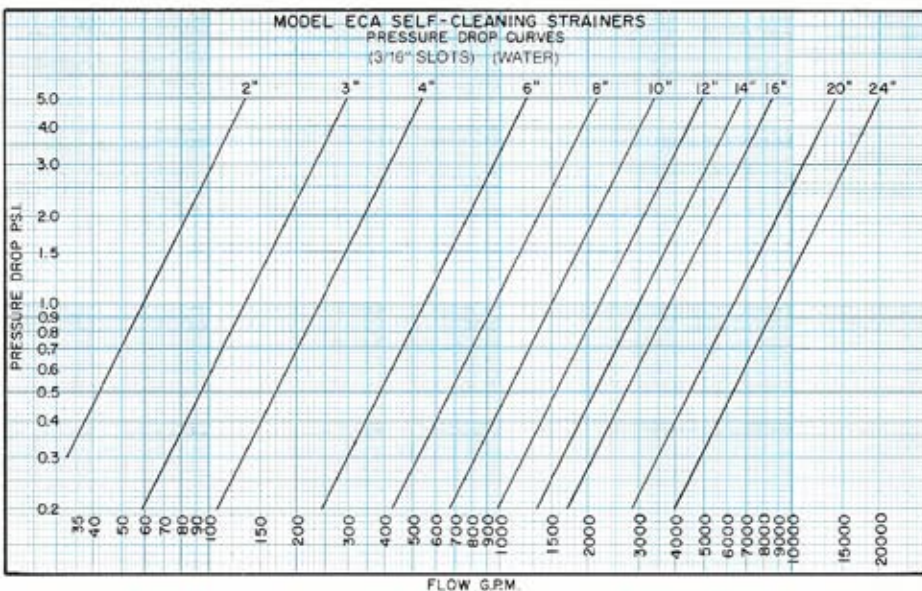
Typical Strainer Specification

The strainer shall be a self-cleaning type, capable of handling _____ (fluid) at a flow rate of ___ GPM with an approximate pressure drop (clean) of ___ PSIG. The strainer shall be Model **ECA** as manufactured by Tate Andale, Inc. and suitable to a working pressure of ___ PSI and a working temperature of ___°F.

The strainer body shall be of cast iron construction with ___" flanged inlet and outlet connections and shall have a bolted steel plate cover.

The strainer shall have one 304 Stainless Steel cylindrical straining element with ___ inch openings and a vertical partition.

The partition shall create two separate straining chambers and the top-entry of each chamber shall be semi-circular in shape.



The strainer shall include a diverter valve, semi-circular in shape which is operated by an electric actuator. This valve shall effectively divert the flow to one of the straining chambers.

The chamber not subjected to direct flow shall use the system flow to backflush contaminant.

Each half of the straining element shall have a drain connection for backflush piping.

Standard Material

Body Cast Iron
 Cover Steel plate
 Diverter valve Steel plate
 Valve shaft 304 Stainless Steel
 Straining element 304 Stainless Steel

Standard Features

- Wellscreen element
- Replaceable valve stem packing
- Provision for mechanical operation in case of power and/or air failure.
- External source of backflushing water is not required.
- One internal moving part

ECA Automatic Control System

(see page A4-8 for additional data)

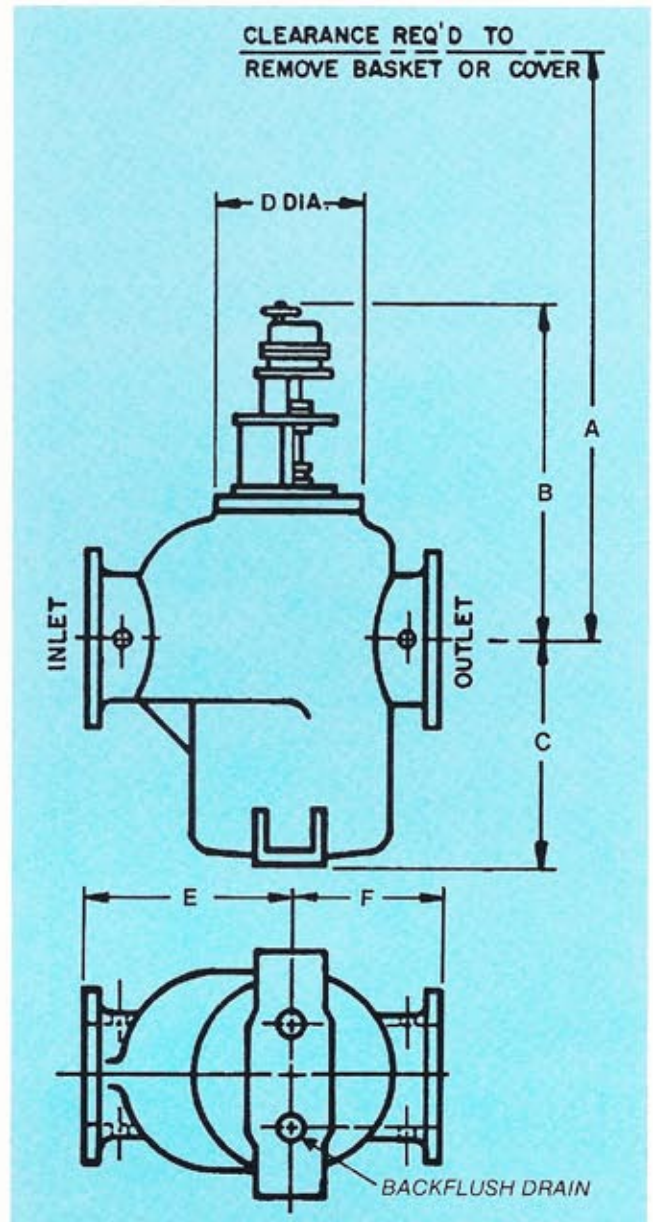
- Control panel with cycle timers
- Manual over-ride control
- Differential pressure switch
- Electrically operated flushing valves
- Backflushing cycle time, quickly and easily adjustable

Optional Features

- Protective coatings
- Zinc anodes for salt water
- Monel or 316 Stainless Steel straining element
- Higher design pressures

Control Options

- Control transformer
- Recycle timer
- Sequential controls for multiple units
- Pilot lights
- Differential pressure switch warning alarm
- All pneumatic operation



Model ECA Dimensions (Approx.) 125 PSIG

*Threaded connections

SIZE (Inlet Dia.)	2"*	3"	4"	6"	8"	10"	12"	14"	16"	20"	24"
A	20	20	22	26	30	33	38	46	51	58	65
B	24.50	24.50	25.75	28.06	31.75	36.81	44.25	46.25	49.50	56.75	62.81
C	6	6	8	10.50	14	17.50	21	25.40	28.24	33.50	41
D	10.30	10.30	12.24	16.24	19.24	22	25.38	29	32.38	39.62	46.74
E	8	8	10.50	13	16	19	23	25.50	29.50	35.50	41.50
F	7	7	8.50	11	13.50	16.50	19.50	22	24.74	30	35
Weight (lbs.)	150	150	430	1040	1640	2180	2630	3350	3870	5050	6150