

Flow



Strainer cum Air Eliminators (SAE)

The combination Line Strainer cum Air Eliminator ensures removal of solid impurities, air or vapour from the liquid before they enter the bulk meter. It is essential accessory for a trouble free and accurate bulk meter operation.

DESIGN FEATURES

- Low pressure drop due to large filter element area
- Compact dimensions for minimum installation space
- Quick release lid facilitates regular inspection
- Threaded ports for connecting differential pressure gauge or temperature probe
- High venting capacity air eliminator

PRINCIPLE OF OPERATION

The Strainer cum Air Eliminator is fitted on P.D. flow meter's inlet side. The strainer consists of a fabricated body, having a horizontal offset between the inlet and outlet flanges. The wire mesh filter element is positively clamped by the end cover. A drain plug is provided to facilitate servicing. Liquid impurities get filtered on passing through the filter element and clean liquid flows through the flow meter. For new installations, it is advisable to first thoroughly flush lines before installing the flow meter. Periodic strainer basket inspection and cleaning is necessary to prolong the life of the flow meter.

The air eliminator is mounted on top of the strainer body. It consists of a stainless steel float connected to a pilot valve via multiple linkages. When air collects in the air eliminator, the buoyant force acting on the float reduces, the float drops down along with the pilot valve connected to the linkage and the air escapes through the main valve. As liquid rises in the air eliminator, the float rises to lift the pilot valve, thereby closing the air release opening of main valve.

SPECIFICATIONS

STRAINER

Type	: Wire mesh filter element
Mesh	: 20 / 40 / 60 / 80 / 100
Size	: 40 / 50/ 80 / 100/ 150 mm NB*
End Connection	: 150 class, ANSI B 16.5 or as specified
Temperature	: Upto 70°C or as specified
Mounting	: Meter inlet

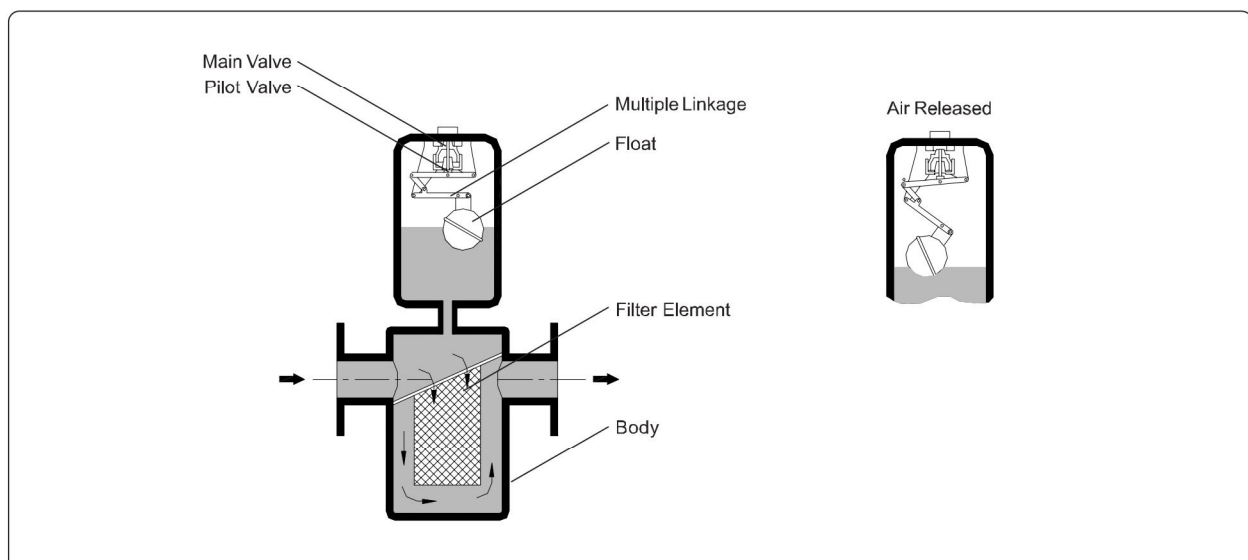
*For higher sizes consult Vermont

AIR ELIMINATOR

Type	: Float actuated pilot operated
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MATERIAL OF CONSTRUCTION

Body	: Carbon Steel / SS316 / Alum Alloy
Float	: SS304 / SS316
Seals	: Nitrile / Viton
Basket	: SS304 Mesh with CS / SS304 Sheet
Linkages	: Aluminium / SS316





SAE with DP Gauge



Standard SAE



SAE with DP Transmitter



Only Air Eliminator



SAE fitted on Bowser Skid

MODEL DESIGNATION

Strainer Cum Air Eliminator

SAE	80	C	N	L
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L = Line

Rubber Parts

N = Nitrile & V = Viton

Body Material

C = Carbon Steel / S = Stainless Steel / A = Alum Alloy

Size

40 mm / 50 mm / 80 mm / 100 mm / 150 mm

* Specifications are subject to change without notice.
 * All dimensions are in mm unless otherwise specified

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