

DIFFERENTIAL PRESSURE GAUGES

GUARDSMAN, SERIES 350, 380, and VANGUARD coalescing filters include a differential pressure gauge which measures the pressure drop across the coalescing filter element. This monitors the condition of the coalescing element, and such a gauge should always be used with coalescing filters. When the pressure drop increases into the range of 7 to 10 psi (0.5 to 0.7 bar) the gauge indicates that the element must be changed. The types of gauges are shown below.



The Full-Size **VANGUARD** and **SERIES 380** filters use the small **K103-151** gauge kit. **GUARDSMAN** units use the **A60F-28** gauge kit. Series 350 units use the **A125-09** gauge kit. All three are slide-type gauges, and are color coded to show the condition of the coalescing element.

Green — Clean (Up to 7 psi)
Red — Change (7 to 10 psi)



High-Flow VANGUARD filters employ the large **106-35** gauge as shown above. It is a dual face gauge color coded to show the condition of the coalescing element. Optionally available for other units.

Green — Clean (Up to 6 psi)
Yellow — Change (6 to 9 psi)
Red — Dirty (Over 9 psi)



The large gauge is also available with a reed switch: normally open (**106-35E**) or normally closed (**106-35EC**). See options for specific filters under Ordering Information. Gauge face readings are unchanged.

Green — Clean (Up to 6 psi)
Yellow — Change (6 to 9 psi)
Red — Dirty (Over 9 psi)

IMPORTANT NOTE

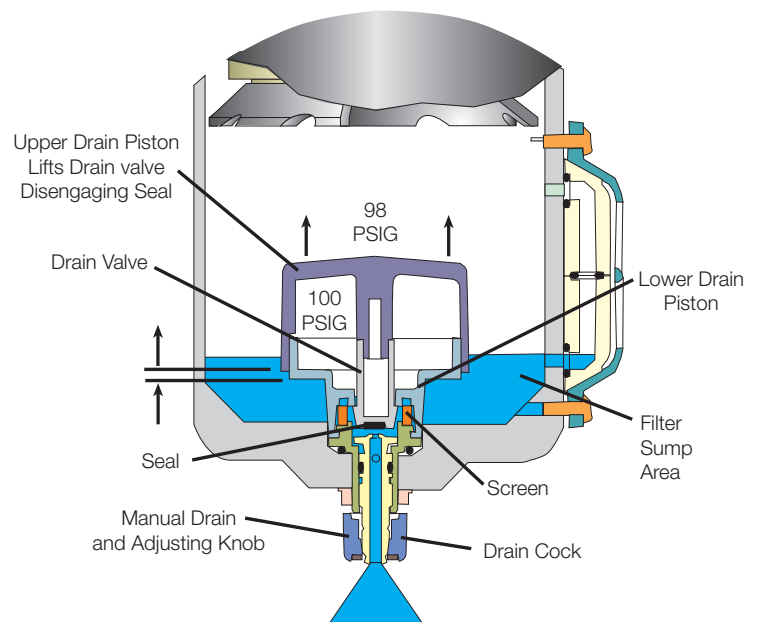
A general purpose filter must be installed ahead of a coalescing filter to ensure good performance and to extend the life of the coalescing element.

INTERNAL AUTOMATIC BOWL DRAIN

Automatic drains are standard on Master Pneumatic coalescing filters and we strongly recommend their use to improve filter effectiveness, lengthen service life, and reduce maintenance needs.

The Master Pneumatic automatic drains operate when liquids have accumulated in the filter bowl and a pressure drop of 2 psi or more occurs (e.g., when a valve or other device is actuated). The pressure drop triggers the automatic drain to expel accumulated liquid.

The drain is also activated whenever the air supply is shut down and exhausted. Although the unit is set at the factory an adjusting knob at the bottom of the filter can be manually set for optimum performance with very high or low flows of air.



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