Signet 4150 Stilling Chamber with automatic air release valve



3-4150.096

Rev A 10/08 English

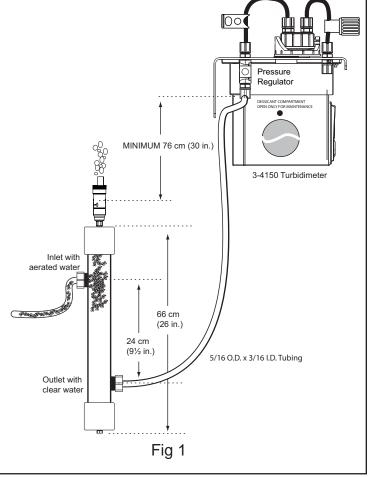
Description

The Signet 4150 Stilling Chamber is used to remove air bubbles from the flow stream before it passes through the measuring cell. Air bubbles will cause unstable or incorrect readings if not eliminated from the flow stream.

The stilling chamber is a cylinder approximately 5 cm \times 66 cm (2 in. \times 26 in.). Water enters the chamber via the outlet fitting near the top of the cylinder (see figure 1). As it passes through the chamber, the flow velocity is reduced by the larger volume of the chamber. This allows time for any entrained air to rise to the top of the cylinder, where the automatic air vent releases it into the environment.

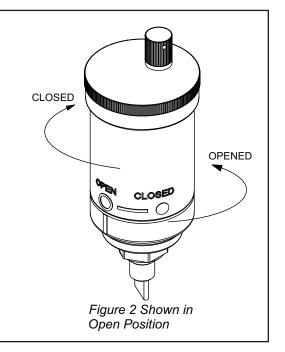
For proper operation the stilling chamber must be mounted lower than the sensor. For optimum results there should be at least 76 cm (30 in.) as measured from midpoint of the air vent to the inlet at the sensor.

The air vent has a maximum working pressure of 6 bar (90 psi) and maximum temperature range to 106°C (225°F).



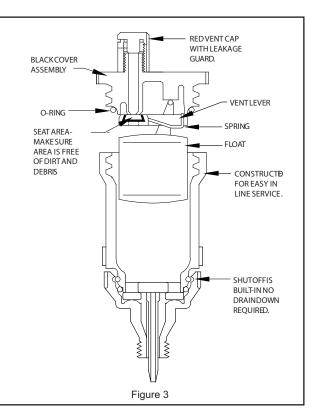
Operating Instructions Braukman Automatic Air Release Valve

- Before filling the chamber, make sure the red vent cap is securely tight and that the release valve is in the closed position (see figure 2) by turning valve body clockwise. HAND-TIGHTEN ONLY to avoid damaging the valve.
- 2. With the valve in the closed position, flush the system as required to remove dirt, debris and contaminates.
- 3. Fill the system with the appropriate solution.
- 4. Start operation by turning the air release valve body counter-clockwise to the open position (see figure 2).
- For proper operation, make sure that the red vent cap is tightened all the way to the stop position. HAND-TIGHTEN ONLY.



Cleaning Instructions

- 1. Turn the valve body clockwise to the closed position, isolating the valve from the system. See figure 2.
- 2. Remove the float assembly by unscrewing the top of the body and lifting the black cover assembly up. See figure 3.
- 3. Carefully clean the seat area of any dirt or debris.
- 4. Carefully clean any dirt or debris from inside the vent chamber.
- 5. Reinstall the clean float assembly, making sure that the O-ring is not damaged and is seated properly. See figure 3.
- 6. Reinstall the black cover assembly on the air release valve body. HAND-TIGHTEN ONLY.
- Operate by turning the air release valve body counter-clockwise to the open position.
 HAND-TIGHTEN ONLY. See figure 3.
- 8. For proper operation, make sure that the red vent cap is tightened all the way to the stop. HAND-TIGHTEN ONLY.



Ordering Information

Signet Part Number	Code	Description
3-4150-1	159 001 596	Turbidimeter, White Light, 0 to 1000 NTU
3-4150-2	159 001 597	Turbidimeter, Infrared, 0 to 1000 NTU
3-4150-3	159 001 598	Turbidimeter, White Light, 0 to 100 NTU With AutoClean
3-4150-4	159 001 599	Turbidimeter, Infrared, 0 to 100 NTU With AutoClean
3-4150-5	159 001 600	Turbidimeter, White Light, 0 to 1000 NTU With AutoClean
3-4150-6	159 001 601	Turbidimeter, Infrared, 0 to 1000 NTU With AutoClean
3822-4001	159 001 585	*Calibration Kit, Turbidity, 100, 10 & 0.02 NTU
3822-4003	159 001 586	*Calibration Kit, Turbidity, 1000, 10 & 0.02 NTU
3-4150.380	159 001 588	Replacement Desiccant
4150-0007	159 001 602	Replacement cuvette set (3 glass cuvettes)
4150-0004	159 001 589	Replacement cuvette with ultrasonic transducer
3822-4002	159 001 591	*Formazin Stock Kit
3822-4000	159 001 592	*Formazin Stock Solution, 4000 NTU, 500 ml
4150-0001	159 001 593	Pressure Regulator
4150-0003	159 001 587	Stilling/Bubble Chamber
4150-0005	159 001 595	Tubing Kit: shutoff clamp backpressure valve 2 lengths connecting tubing with fittings for flow through assembly drain vent

^{*} Material Safety Data Sheets (MSDS) are available online at www.gfsignet.com/msds.htm.



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