

DESCRIPTION

This series of Alemite air filter / moisture separators is designed to automatically remove condensate and air-borne foreign matter from air lines by way of filtration and centrifugal action. All models are fitted with filter elements and die cast zinc bowls with sight gauges. These filters are provided with a manual drain valve, and can be easily converted to an auto-drain function by installing a simple conversion component (see Figure 2).

INSTALLATION

Before installing the filter, blow out the pipe line to be filtered, removing scale and other foreign matter.

NOTE: Apply pipe-thread sealant to the male threads of the pipe connections. Do not allow sealant on the first two threads.

Install the filter with the bowl vertical and below the pipe line. Be sure pipe connections to the filter are made so air will flow in the direction indicated on the filter body. Place the filter as near as possible to the equipment being serviced, and upstream of any regulators, line lubricators, etc.

CAUTION: With Auto-Drain accessory, filters have a minimum pressure of 30 PSI and a maximum pressure of 175 PSI. Also, maximum operating temperature is 120°F.

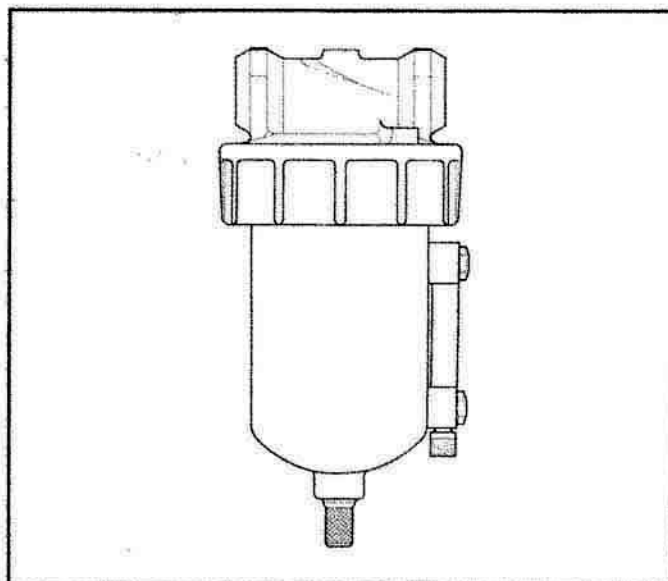


Figure 1: Model 5604-2 Air Filter / Moisture Separator

MAINTENANCE

To maintain maximum filtering efficiency, and to avoid excessive pressure drop, these filters must be kept reasonably clean. A visible coating or film on the filter element (dirt or condensate), or an appreciable pressure drop, is an indication that cleaning is needed.

SPECIFICATION CHART

Model Number	Air Inlet and Outlet	Operating Range with 100 PSI (5 PSI drop)	Filter Ratings (Micron)	Maximum Pressure (PSI)	Bowl Capacity (oz.)	Maximum Operating Temp. (°F)	Automatic Drain
5604-2	1/4"	0 to 50 SCFM	40	250	5	150	No
5606-2	3/8"	0 to 60 SCFM			8		
5608-2	1/2"	0 to 105 SCFM			16		
5612-2	3/4"	0 to 270 SCFM		175	5	120	Yes
5616-2	1"	0 to 350 SCFM			8		
5644-1	1/4"	0 to 50 SCFM			5		
386295	1/2"	0 to 105 SCFM			8		

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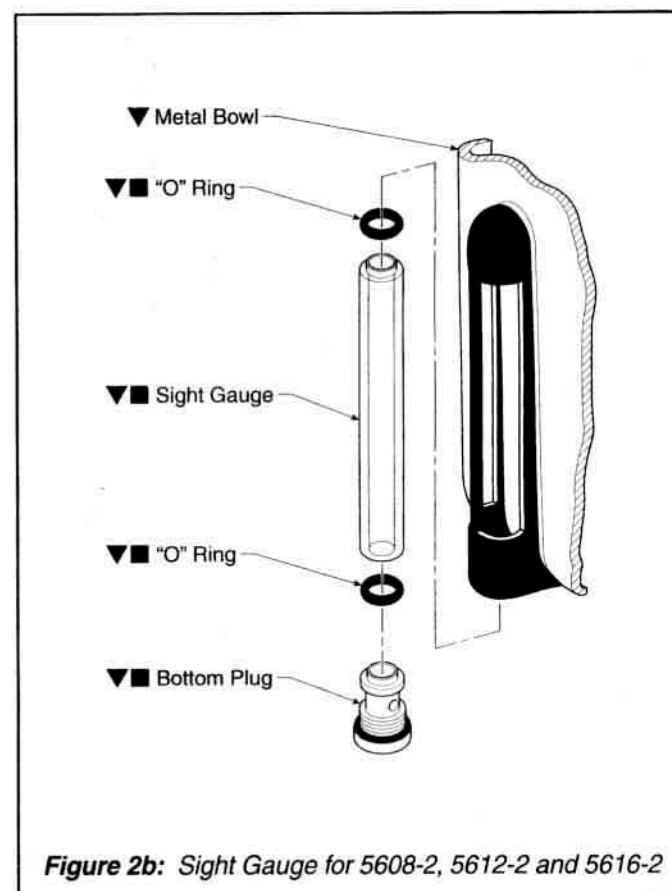
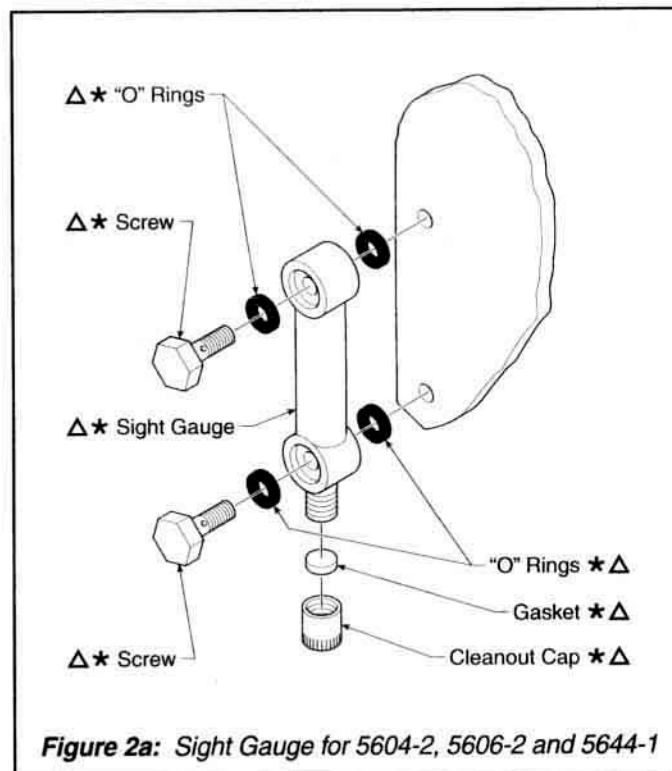
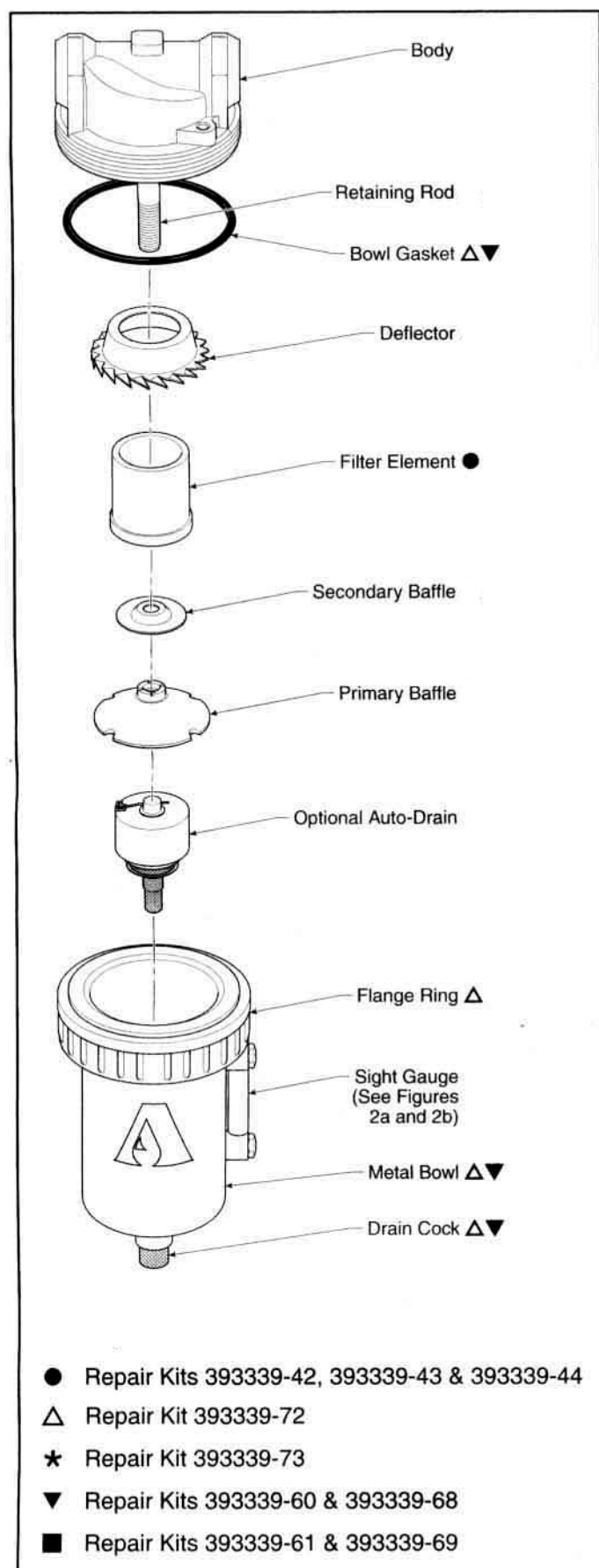


Figure 2: Air Filter Parts

Repair Kits For Models 5604-2, 5606-2, and 5644-1**● 393339-42 For Filter Element**

40 Micron Filter Element

★ 393339-73 For Sight Gauge

Sight Gauge Assembly with Cleanout Cap

"O" Rings (4)

Screws (2)

△ 393339-72 For Bowl & Sight Gauge

Bowl Gasket

Bowl with Sight Gauge Assembly

Drain Cock

Flange Ring

Repair Kits For Models 5608-2 and 386295**● 393339-43 For Filter Element**

40 Micron Filter Element

▼ 393339-60 For Bowl

Bowl Gasket

Bowl with Sight Gauge Assembly and

Drain Cock

■ 393339-61 For Sight Gauge

"O" Rings (2)

Sight Gauge

Bottom Plug

Indicator Float

Repair Kits For Models 5612-2 and 5616-2**● 393339-44 For Filter Element**

40 Micron Filter Element

■ 393339-69 For Sight Gauge

"O" Rings (2)

Sight Gauge

Bottom Plug

Indicator Float

▼ 393339-68 For Bowl

Bowl Gasket

Bowl with Sight Gauge Assembly and

Drain Cock

For maximum efficiency, open drain cock (clockwise) frequently to drain water.

CAUTION: Shut off air supply and be sure all pressure in system is relieved before attempting to remove any filter components.

CLEANING

It is not necessary to remove filter from the air line for cleaning, nor are tools needed for disassembly of filter components. Refer to Figure 2 for disassembly. Clean all parts, other than plastic sight gauges, with methanol alcohol and dry with an air stream. Wash the filter element in alcohol and blow dry from the inside. Clean the sight gauge with household detergent only. DO NOT use alcohol or solvents to clean the sight gauge.

CAUTION: NEVER use carbon tetrachloride, trichlorethylene, thinner, acetone or similar solvents when cleaning any of these components.

CONVERSION TO AUTO-DRAIN PROVISION

To install Auto-Drain Assembly 334547-1:

1. Unscrew Flange Ring and remove Bowl.
2. Turn Drain Cock clockwise (as viewed from bottom) to remove it from Bowl. Discard Drain Cock.
3. Thread drain cock portion of Auto-Drain Assembly through drain cock opening in Bowl and carefully screw (hand tight) into place.
4. Reassemble Bowl to filter Body and retighten Flange Ring.

CAUTION: With Auto-Drain accessory, filters have a minimum pressure of 30 PSI and a maximum pressure of 175 PSI. Also, maximum operating temperature is 120°F.

PARTS CHANGES SINCE LAST REVISION

Removed 393339-45,-46,+47 Kits.

WARNING

To avoid unpredictable system behavior that can cause personal injury and property damage:

- Disconnect electrical supply (when necessary) before installation, servicing, or conversion.
- Disconnect air supply and depressurize all air lines connected to this product before installation, servicing, or conversion.
- Operate within the manufacturer's specified pressure, temperature, and other conditions listed in these instructions.
- Medium must be moisture-free if ambient temperature is below freezing.
- Service according to procedures listed in these instructions.
- Installation, service, and conversion of these products must be performed by knowledgeable personnel who understand how pneumatic products are to be applied.
- After installation, servicing, or conversion, air and electrical supplies (when necessary) should be connected and the product tested for proper function and leakage. If audible leakage is present, or the product does not operate properly, do not put into use.
- Warnings and specifications on the product should not be covered by paint, etc. If masking is not possible, contact your local representative for replacement labels.

CAUTION

Polycarbonate bowls, being transparent and tough, are ideal for use with Filters and Lubricators. They are suitable for use in normal industrial environments, but should not be located in areas where they could be subjected to direct sunlight, an impact blow, nor temperatures outside of the rated range. As with most plastics, some chemicals can cause damage. Polycarbonate bowls should not be exposed to chlorinated hydrocarbons, ketones, esters and certain alcohols. They should not be used in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester and di-ester types.

Metal bowls are recommended where ambient and/or media conditions are not compatible with polycarbonate bowls. Metal bowls resist the action of most such solvents, but should not be used where strong acids or bases are present or in salt laden atmospheres. Consult the factory for specific recommendations where these conditions exist.

TO CLEAN POLYCARBONATE BOWLS USE MILD SOAP AND WATER ONLY! DO NOT use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic.

Bowl guards are recommended for added protection of polycarbonate bowls where chemical attack may occur.

WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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