

 **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**

Polyurethane bowls, sight glass and sight domes on these units may be attacked by certain chemicals. Never use solvents like carbon tetrachloride, trichlorethylene, acetone, or paint thinner to clean any parts. These elements can cause crazing or failure of the plastic parts. The polyurethane resin parts are compatible with most hydrocarbon based synthetic lubricants but, before using, check with the manufacturer of the lubricant or oil for compatibility with polyurethane resin.

TO CLEAN POLYURETHANE BOWLS USE MILD SOAP AND WATER ONLY!

Introduction

Follow these instructions when installing, operating, or servicing the product.

Application Limits

These products are intended for use in general purpose compressed air systems only.

Maximum Recommended Pressure Drop:

	kPa	PSIG	bar
Particulate Filter	70	10	0.7

With Polyurethane Bowl

	kPa	PSIG	bar
Operating Pressure Maximum	1034	150	10.0
Operating Temperature Range	4°C to 49°C (40°F to 120°F)		

With Zinc Bowl

	kPa	PSIG	bar
Operating Pressure Maximum	2068	300	21.0
Operating Temperature Range	4°C to 82°C (40°F to 180°F)		

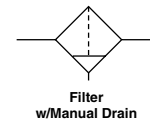
With Zinc Bowl & Wrap Around Sight Gauge

	kPa	PSIG	bar
Operating Pressure Maximum	1723	250	17.0
Operating Temperature Range	4°C to 66°C (40°F to 150°F)		

Internal Auto Drain Installed

	kPa	PSIG	bar
Operating Pressure Maximum	1207	175	12.0
Operating Temperature Range	4°C to 66°C (40°F to 150°F)		

ANSI Symbols



 **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.

This document and other information from The Company, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application, including consequences of any failure and review the information concerning the product or systems in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.

Installation

1. The filter should be installed with reasonable accessibility for service whenever possible – repair service kits are available. Keep pipe or tubing lengths to a minimum with inside clean and free of dirt and chips. Pipe joint compound should be used sparingly and applied only to the male pipe – never into the female port. Do not use PTFE tape to seal pipe joints – pieces have a tendency to break off and lodge inside the unit, possibly causing malfunction. Also, new pipe or hose should be installed between the filter and equipment being protected.
2. The upstream pipe work must be clear of accumulated dirt and liquids.
3. Select a filter location as close as possible to the equipment being protected and upstream of any pressure regulator.
4. Install filter so that air flows in the direction of arrow on body.
5. Install filter vertically with bowl drain mechanism at the bottom. Free moisture will thus drain into the sump “quiet zone” at the bottom of the bowl.

Maintenance

To maintain maximum filtering efficiency, and to avoid excessive pressure drop, the filter must be kept clean. On standard filters, open drain cock (turn clockwise) periodically and drain off any bowl accumulation before it reaches level of lower baffle. Bowl drainage is automatic in the “Piston Drain” model, however, manual draining can also be done by removing the bowl. A visible coating of dirt or condensate on the filter element surface, or an excessive pressure drop, is an indication that cleaning is necessary.

Cleaning

To clean, it is not necessary to remove filter from the line. Disassembly is simple and does not require tools. Use the drawing on the reverse side of this sheet as a guide. Before disassembly, shut off air supply and depressurize filter. Clean all parts, except plastic bowl, with alcohol and blow out from the inside. Plastic bowls must be cleaned with household soap only.

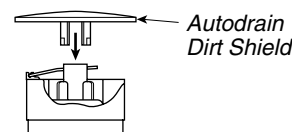
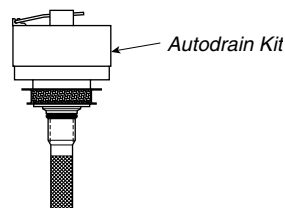
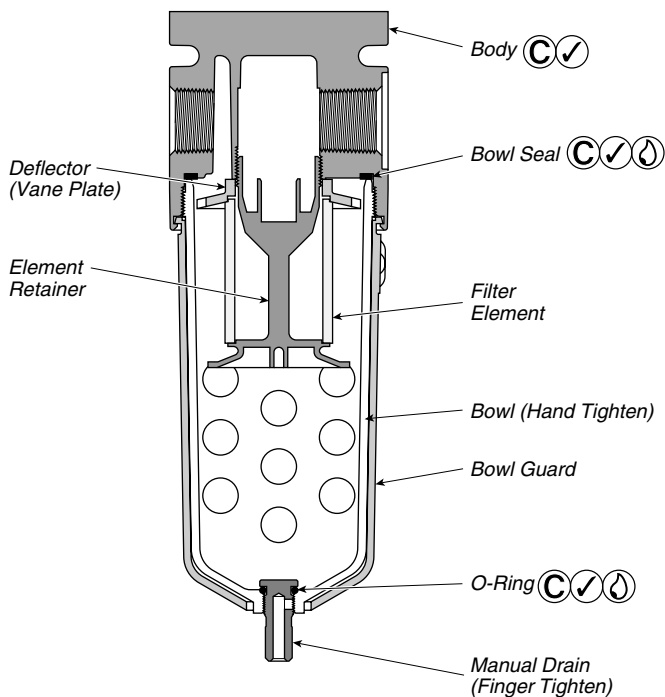
“Auto Drain” Operation

Auto Drain filters are equipped with a float actuated device which automatically ejects liquid contaminants. If supplied in Kit Form, Part No. SA602MD or SAF105MD, the Auto Drain can be installed by simply removing the bowl and then the bowl draincock. Insert the Auto Drain in place of the removed draincock and reassemble the unit in reverse order.

Kits Available

Description	Product Number	Bowl Type
Bowl*		
Polyurethane	BKF105B	B
Zinc	BKF105D	D
Zinc with Wrap		
Around Sight Gauge	BKF105W	W
Element Kits		
5 Micron	EK100G	B, D, W
40 Micron	EK100J	B, D, W
Repair Kit		
Deflector, Element Retainer	RKF100	B, D, W
Internal Auto Drain (Optional)	SA602MD SAF105MD	B, D W
Internal Auto Drain Repair Kit	RK602MD	B, D, W
Auto Drain Dirt Shield	F700-0071P	B, D, W

*Bowl kits include bowl seal and bowl guard assembly.



- Lightly grease with provided lubricant.
- Inspect for nicks, scratches, and surface imperfections. If present, reduced service life is probable and future replacement should be planned.
- Clean with lint-free cloth.