Pneumatic Division

Richland, Michigan 49083 269-629-5000

Installation & Service Instructions

IS-F71

F71 Coalescing Filter ISSUED: April, 2007

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⚠ 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, 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. Polyurethane 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 polyurethane 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 POLYURETHANE 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 polyurethane bowls where chemical attack may occur.

Safety Guide

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: www.wattsfluidair.com

Introduction

The F71 coalescing filter is designed to remove oil and water aerosols, and particulate matter larger than 0.01 micron. It is necessary to provide the F71 coalescing filter with pre-filtered air from a particulate / moisture separator such as the F75 filter. The F71 filter element is constructed with a precision matrix of borosilicate microfibers to maximize efficiency and particulate holding capacity. Its relatively large fiber surface area, in conjunction with a small pore size, provides maximum efficiency with minimal pressure drop. Follow these instructions when installing, operating, or servicing the product.

Differential Pressure Pop-Up Indicator

This feature allows the user to determine the condition of the element under a flow condition. A fully risen piston indicates (12 PSI differential across the element) the need to change the filter element.

Application Limits

Coalescing Filter

These products are intended for use with compressed air in industrial applications. For other applications, consult factory before use.

Maximum Recommended Pressure Drop:

kPa	PSIG	bar
70	10	0.7

DCIC

With Polyurethane Bowl with Polyethylene Bowl Guard

	KPa	P51G	bar
Operating Pressure Maximum	1034	150	10
Operating Temperature Range		4°C	to 52°C
		(40°F t	o 125°F)

With Metal Bowl

	ni a	1 314	Dai	
Operating Pressure Maximum	2068	300	21	
Operating Temperature Range		4°C	c to 82°C	;
		(40°F t	o 180°F	١

With Metal Bowl with Wrap Around Sight Gauge

•	kPa	PSIG	bar
Operating Pressure Maximum	1723	250	17
Operating Temperature Range		4°C	to 66°C
		(40°F t	o 150°F

ANSI Symbols



Coalescing w/ Manual Drain

Installation

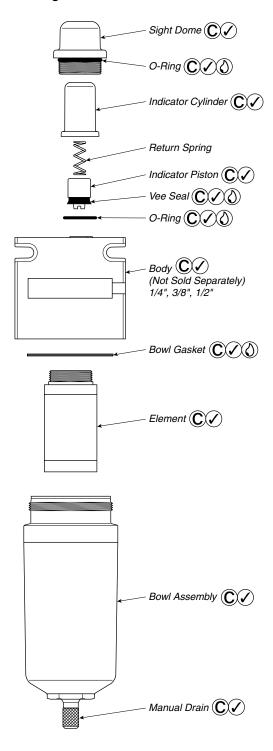
All FRL components are individually tapped (NPT or BSPP) to allow direct mounting to piping. Also, each component comes equipped with the necessary screws and O-rings to enable connection to other components of the same series without the need for pipe nipples or special adaptors. Before installing, blow out pipe line to remove scale and other foreign matter. This unit has DRYSEAL pipe threads; use pipe compound or tape sparingly to male threads only. Install units in pipe line so that flow is in direction indicated by arrows on top of body. Install as near as possible to equipment being serviced.

Maintenance

To maintain maximum filtering efficiency, and to avoid excessive pressure drop, the filter bowl and element must be kept clean. Turn drain valve clockwise, from bottom, to drain any bowl accumulation before it reaches level of lower baffle. To aid in the draining of the bowl, an internal automatic drain (PN SAF105MD) may be installed to automatically drain bowl accumulation. A visible coating of dirt or condensate on filter element, or an excessive pressure drop, indicates cleaning is necessary.

CAUTION: FILTER BOWL MUST BE CLEANED WITH HOUSEHOLD SOAP ONLY!

F71 Coalescing Filter IS-F71



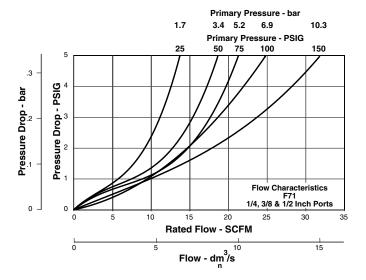
- Lightly grease with provided lubricant.
- Inspect for nicks, scratches, and surface imperfections. If present, reduced service life is probable and future replacement should be planned.
- C Clean with lint-free cloth.

Service Kits / Parts Available

Description	F71, 1/4", 3/8", & 1/2"
Bowl Gasket	GSK-F55-1011
Filter Element Kits Activated Carbon Coalescing	EKF71A EKF71
Bowl Assembly "B" - Polyurethane w/Polyethylene Bowl Guard, 150 PSI Maximum Pressure "D" - Zinc Bowl, 300 PSI Max. Pressure "W" - Zinc Bowl w/Wraparound Sight Gauge, 250 PSI Maximum Pressure	BKF55B BKF55D BKF55W
Manual Drain	SA600Y7-1
Pop-Up Repair Kit (Sight Dome, Indicator Cylinder, Vee Seal, Return Spring, Indicator Piston, O-Rings)	RK701P
Repair Kit for All Internal Auto Drains	RK602MD/M4

Accessories

Description	Part Number	Bowl Type
Internal Automatic Drain Plastic ("R" Option, 175 PSI Max. Pressure) Brass ("RX77" Option)	SA602MD SA605MD	B, D B, D
Brass ("R" Option, 175 PSI Max. Pressure)	SAF105MD	W
Wall Mount Bracket	SAR55Y57	_



MARNING

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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