

Instructions



General Purpose Filter F73G - ★★★

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Port	Thread Form	Service Indicator	 Drain	Bowl	Element
21/4"	APTF	DWith mechanical service indicator	AAutomatic	DMetal with liquid level indicator	15 µm
33/8"	BISO Rc taper	EWith electrical service indicator *	QManual, 1/4 turn	PTransparent with guard	225 µm
41/2"	GISO G parallel	NWithout indicator		TTransparent	340 μm

* See Norgren publication IM-900-920 for specifications and electrical wire connections of the optional electric service indicator.

TECHNICAL DATA

Fluid: Compressed air

Maximum pressure:

Transparent bowl: 10 bar (150 psig)

Metal bowl: 17 bar (250 psig)

Operating temperature*

Transparent bowl: -20° to +50°C (0° to +125°F) Metal bowl: -20° to +80°C (0° to +175°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Particle removal: 5 μm , 25 μm , or 40 μm filter element Air quality: Within ISO 8573-1, Class 3 and Class 5 (particulates)

Typical flow with a 40 µm element at 6,3 bar (90 psig) inlet pressure and 0,5 bar (7 psig) pressure drop: 35 dm³/s (75 scfm)

Nominal bowl size: 0,1 litre (3.5 fluid ounce)

Manual drain connection: 1/8"

Automatic drain connection: 1/8'

Automatic drain operating conditions (float operated):

Bowl pressure required to close drain: Greater than 0,3 bar (5 psig)

Bowl pressure required to open drain: Less than 0,2 bar (3 psig)

Minimum air flow required to close drain: 0,1 dm³/s (0.2 scfm)

Manual operation: Depress pin inside drain outlet to drain bowl

Materials:

Body: Aluminum

Bowl

Transparent: Polycarbonate

Transparent with guard: Polycarbonate, steel guard Metal: Aluminum

Metal bowl liquid level indicator lens: Transparent nylon

Element: Sintered polypropylene Elastomers: Neoprene and nitrile

Mechanical service indicator materials:

Body: Transparent nylon Internal parts: Acetal Spring: Stainless steel

Elastomers: Nitrile

REPLACEMENT ITEMS

Service kit (includes items circled on exploded	view).4380-600
Liquid level lens kit (43, 45, 46, 47)	4380-020
Filter element, 5µm (50)	4438-01
Filter element, 25µm (50)	4438-02
Filter element, 40µm (50)	4438-03
Manual drain (18, 19, 20)	619-50
Automatic drain (21, 22, 23)	4000-51R
Mechanical service Indicator (1)	5797-50
Electrical service Indicator (6)	4020-51R

INSTALLATION

- 1. Shut-off air pressure. Install filter in air line -
- vertically (bowl down),
- with air flow in direction of arrow on body,
- · upstream of regulators, lubricators, and cycling valves.
- as close as possible to the air supply when used as a main line filter.
- as close as possible to the device being serviced when used as a final filter.
- 2. Connect piping to proper ports using pipe thread sealant on male threads only. Do not allow sealant to enter interior of unit
- 3. Push bowl, or bowl with quard, into body and turn fully clockwise before pressurizing

SERVICING

- 1. Open manual drain to expel accumulated liquids. Keep liquids below baffle (49).
- 2. Clean or replace filter element when dirty, when optional mechanical service indicator shows approximately all red, or when optional electrical service indicator provides an electrical output.

DISASSEMBLY

- 1. Filter can be disassembled without removal from air line.
- 2. Shut off inlet pressure. Reduce pressure in inlet and outlet lines to zero.
- 3. Remove bowl push into body and turn counterclockwise.
- 4. Disassemble in general accordance with the item numbers on exploded view. Do not remove the drains or the service indicators (1, 6) unless replacement is necessary. Remove and replace only if they malfunction.

CLEANING

- 1. Clean plastic bowl (25, 35) and lens (3, 45) with warm water only. Do not submerge electrical service indicator (6) in water. Clean indicator (6) with dry, clean cloth. Clean other parts with warm water and soap.
- 2. Rinse and dry parts. Blow out internal passages in body (13) with clean, dry compressed air. Blow air through filter element (50) from inside to outside to remove surface contaminants.
- 3. Inspect parts. Replace those found to be damaged. Replace plastic bowl with a metal bowl if plastic bowl shows signs of cracking or cloudiness

ASSEMBLY

- 1. Lubricate o-rings, the portion of the manual drain body (18, 28, 37) that contacts the bowl, and the hole in the manual drain body that accommodates the stem of drain valve (19, 29, 38) with o-ring grease.
- 2. Assemble filter as shown on the exploded view.
- 3. Arrows on indicator (3, 8) and body (13) must point in same direction. Push bowl, or bowl with guard, into body and turn fully clockwise.

4. Torque Table Torque in N-m (Inch-Pounds) 2. 7 (Screw) 2,8 to 3,9 (25 to 35) 2,3 to 2,8 (20 to 25) 22, 32, 41 (Nut) 1 7 to 3 4 (15 to 30) 43 (Screw) 49 (Baffle), 51 (Louver) 1,1 to 2,2 (10 to 20)

CAUTION

Water vapor will pass through these units and could condense into liquid form downstream as air temperature drops. Install an air dryer if water condensation could have a detrimental effect on the application.

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under Technical Data.

Polycarbonate plastic bowls can be damaged and possibly burst if exposed to such substances as certain solvents, strong alkalies, compressor oils containing esterbased additives or synthetic oils. Fumes of these substances in contact with the polycarbonate bowl, externally or internally, can also result in damage. Clean with warm water only.

Use metal bowl in applications where a plastic bowl might be exposed to substances that are incompatible with polycarbonate.

Before using these products with fluids other than air, for nonindustrial applications, or for life-support systems consult Norgren.





