

602108 - 1/2" PORTS, MANUAL DRAIN
602109 - 1/2" PORTS AUTO DRAIN

TECHNICAL DATA

Fluid: Compressed air
Maximum pressure: 250 psig (17 bar)
Operating temperature: 0 to +175°F (-20° to +79°C)*

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

Main ports: 1/2" PTF
Filter element rating: 40µm

Materials:

Body: Aluminum
Bowl: Aluminum
Liquid level indicator lens: Transparent nylon
Element: Sintered polypropylene plastic
Elastomers: Neoprene and nitrile

REPLACEMENT ITEMS

Liquid level lens kit (35, 37, 38, 39, 45, 47, 48, 49).....247876
Filter element, 40µm.....247874
Drain, manual (32, 33, 34).....247893
Drain, automatic (42, 43, 44).....247932
Service kit (39, 44, 49, 54).....247877

INSTALLATION

1. Install filter vertically in air line -
 - upstream of regulators, lubricators, and cycling valves,
 - with air flow in direction of arrow on body,
 - 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. Turn bowl fully clockwise into body before pressurizing.
4. Manual drain is ported 7/16-24 UNS male for 1/4" tube nut or ferrule.
5. Connect flexible tube with 0.125" (3mm) minimum I.D. to automatic drain. Avoid restrictions in the tube.

SERVICING

1. Open manual drain (32) to expel accumulated liquids. Keep liquids below baffle (51).
2. Depress pin inside automatic drain outlet to operate drain manually. Avoid spray.
3. Clean or replace filter element (52) when dirty.

DISASSEMBLY

1. Shut off inlet pressure. Reduce pressure in inlet and outlet lines to zero.
2. Remove bowl - push into body and turn counterclockwise.
3. Disassemble in general accordance with the item numbers on exploded view. Disassemble and replace manual drain (32, 33, 34) only if it malfunctions. Automatic drain (42) is not repairable. Replace if it malfunctions.

CLEANING

1. Clean lens (37, 47) with warm water only. Clean other parts with warm water and soap
2. Rinse and dry parts. Blow out internal passages in body (6) with clean, dry compressed air. Blow air through filter element (52) from inside to outside to dislodge surface contaminants.
3. Inspect parts. Replace parts found to be damaged.

ASSEMBLY

1. Lubricate o-rings and stem of drain valve (32) with o-ring grease
2. Assemble the filter as shown on the exploded view.
3. Screw baffle (51) onto center-post (53) until contact is made with element (52), then tighten an additional 1/4 turn. Turn bowl fully clockwise into body.
4. Torque Table

	Inch-Pounds (N-m)
43 (nut)	20 to 25 (2.3 to 2 8)
35, 45 (screw)	13 to 16 (1.5 to 1 8)
53 (center-post)	18 to 24 (2.0 to 2 7)

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.

WARNING

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**.

Do not use these products with fluids other than air, for nonindustrial applications, or for life-support systems

