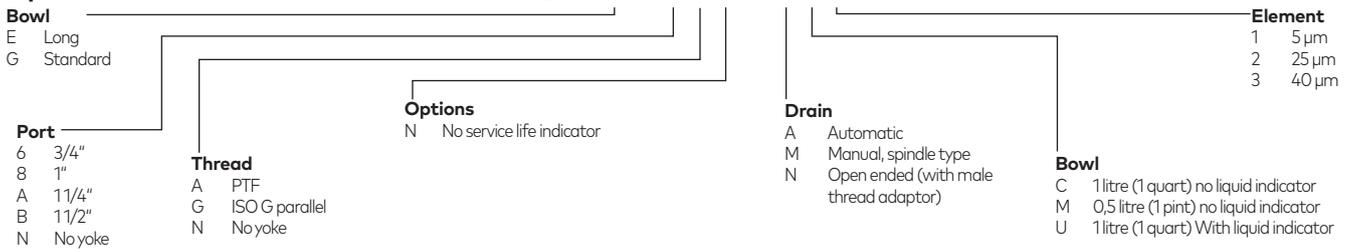


Option selector



LF68G/E General purpose filter Installation & Maintenance Instructions

Technical Data

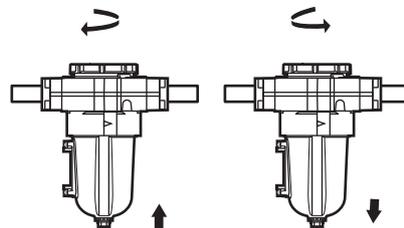
Fluid: Compressed air
 Maximum pressure: 17 bar (246 psi)
 Operating temperature*:
 -40° ... +80°C (-40° ... +176°F)
 * Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).
 Partical removal: 5, 25 or 40 µm
 Air quality: Within ISO 8573-1, Class 3 and Class 5 (particulates)
 Typical flow with a 40 µm element at 6,3 bar (90 psi) inlet pressure and a 0,5 bar (7 psi) pressure drop: 190 dm³/s (403 scfm)
 Manual drain connection: 1/8" pipe thread
 Automatic drain connection: 1/8" pipe thread
 Automatic drain operating conditions (float operated): Bowl pressure required to close drain: Greater than 0,3 bar (4,3 psi)
 Bowl pressure required to open drain: Less than 0,2 bar (2,9 psi)
 Minimum air flow required to close drain: 0,6 dm³/s (1,3 scfm)
 Manual operation: Depress pin inside drain outlet to drain bowl
 Nominal bowl size:
 0,5 litre (1 pint U.S.), 1 litre (1 quart U.S.)
 Materials:
 Body: Aluminium
 Yoke: Aluminium
 Bowl: Aluminium
 Liquid level indicator: Pyrex
 Element: Sintered bronze
 Elastomers: Synthetic rubber

Replacement Items

Element KITS for manual drain: KITM
 Filter element, 0,5 litre bowl, 5 µm LF68G-KITM05
 Filter element, 0,5 litre bowl, 25 µm LF68G-KITM25
 Filter element, 0,5 litre bowl, 40 µm LF68G-KITM40
 Filter element, 1,0 litre bowl, 5 µm LF68E-KITM05
 Filter element, 1,0 litre bowl, 25 µm LF68E-KITM25
 Filter element, 1,0 litre bowl, 40 µm LF68E-KITM40
 Element KITS for automatic drain: KITA
 Filter element, 0,5 litre bowl, 5 µm LF68G-KITA05
 Filter element, 0,5 litre bowl, 25 µm LF68G-KITA25
 Filter element, 0,5 litre bowl, 40 µm LF68G-KITA40
 Filter element, 1,0 litre bowl, 5 µm LF68E-KITA05
 Filter element, 1,0 litre bowl, 25 µm LF68E-KITA25
 Filter element, 1,0 litre bowl, 40 µm LF68E-KITA40
 Element KITS for open ended adaptor: KITN
 Filter element, 0,5 litre bowl, 5 µm LF68G-KITN05
 Filter element, 0,5 litre bowl, 25 µm LF68G-KITN25
 Filter element, 0,5 litre bowl, 40 µm LF68G-KITN40
 Filter element, 1,0 litre bowl, 5 µm LF68E-KITN05
 Filter element, 1,0 litre bowl, 25 µm LF68E-KITN25
 Filter element, 1,0 litre bowl, 40 µm LF68E-KITN40

Installation

1. Install yoke in air line - with air flow in direction of arrow on top of yoke, upstream of regulators, lubricators, and cycling valves, as close as possible to the air supply when filter is used as a main line filter, as close as possible to the device being serviced when filter is used as a final filter.
2. Connect piping to yoke ports using pipe thread sealant on male threads only.
3. Lubricate o-rings (1) with a light coat of o-ring grease, then place o-rings in grooves in body (16).
4. Place clamp ring under lugs on top of yoke.
5. Make sure arrows on yoke and filter point in same direction, then plug filter into yoke and tighten clamp ring hand tight.
6. Turn bowl into body until arrowhead on bowl is aligned with or to the right of the arrowhead on the body.
7. Flexible tube with 3mm (0.125") minimum I.D. can be connected to the automatic drain. Avoid restrictions in the tube.

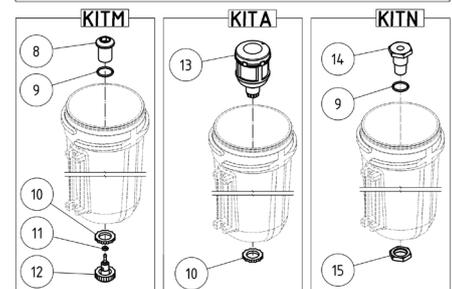
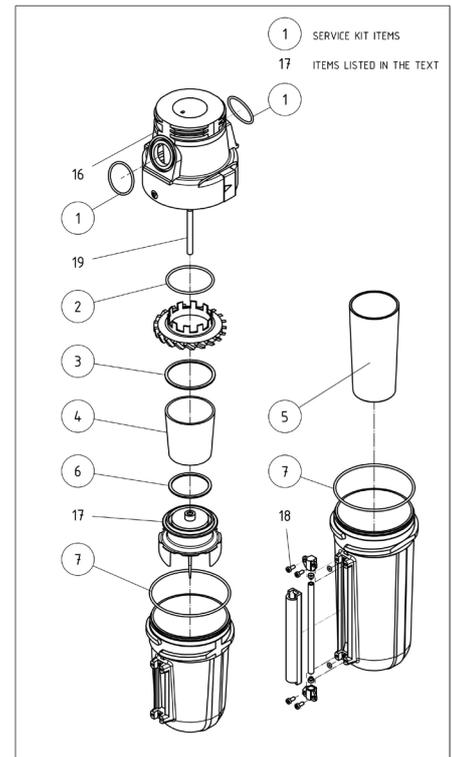


Servicing

1. Open manual drain to expel accumulated liquids. Keep liquids below baffle (17).
2. Clean or replace filter element when dirty.

Disassembly

1. Shut off inlet pressure. Reduce pressure in inlet and outlet lines to zero.
2. Unscrew the clamp ring and remove filter from yoke.
3. Disassemble in general accordance with the item numbers on exploded view. Do not remove the drains unless replacement is necessary. Remove and replace only if they malfunction. Do not attempt to remove rod (19), as it is cemented to body.



Cleaning

1. Clean parts with warm water and soap.
2. Rinse and dry parts. Blow out internal passages in body (16) with clean, dry compressed air. Blow air through filter element (4,5) from inside to outside to remove surface contaminants.
3. Inspect parts. Replace those found to be damaged.

Assembly

1. Assemble the unit as shown on the exploded view.
2. Arrows on indicator (3, 8) and body (14) must point in same direction.
3. Torque Table

Item	Torque in N-m (Inch-Pounds)
18 (Screw)	1,8 to 2,3 (16 to 20)
10, 15 (Nut)	0,8 to 1,2 (7 to 10)
17 (Baffle)	1,1 to 1,4 (10 to 12)

4. Turn bowl into body until arrowhead on bowl is aligned with or to the right of the arrowhead on the body.

Warning

These products are intended for use in industrial compressed air and rail transport systems only. Do not use these products where pressures and temperatures can exceed those listed under »**Technical features/data**«.

Use in potentially explosive atmospheres

Code of device according EC directive 2014/34/EU

 II 2G Ex h IIC T6 Gb
 II 2D Ex h IIIC T85°C Db

- Only non-flammable gase to be used as a medium.
- Surface temperature dependant on process fluid temperature and ambient temperature - must be below the ignition temperature of the flammable gas or dust.
- Earth unit and/or pipework to avoid electrostatic discharge.
- Precautions should be taken to prevent hazard from adiabatic compression.
- Use wet cloth for cleaning.
- Protect the unit from object falling onto it.
- Avoid contact with corrosive environment.
- For servicing the unit it is recommended to carry out this work outside of the danger zone.
- For details of ignition hazard assessment contact Norgren.

