Technical features

Fluid: Compressed air
Maximum pressure:
Guarded transparent bowl: 10 bar (150 psig)
Metal bowl: 17 bar (250 psig)
Operating temperature*:
Transparent bowl: –20° ... +65°C (0° ... +150°F)
Metal bowl: –20° ... +65°C (0° ... +150°F)
* Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Maximum remaining oil content in outlet air: Air quality: Within ISO 8573-1, Class 1.7.2
Particle removal: Down to 0.01 µm formation at temperatures below +2°C (+35°F).

Air supply must be dry enough to avoid ice
Metal bowl: –20° ... +65°C (0° ... +150°F)
Transparent bowl: –20° ... +50°C (0° ... +125°F)

Operating temperature*:
Metal bowl: 17 bar (250 psig)
Guarded transparent bowl: 10 bar (150 psig)

Maximum pressure:
Fluid: Compressed air

High flow
Standard
Element
Bowl/
Option selector

Port
2
3
4
6
Thread
A
1/4"
3/8"
1/2"
3/4"

A
PTF (1/8 PTF gauge ports)
B
ISO R taper (1/8 ISO Rc gauge ports)
N
No thread basic unit

A
Manual
D
Mechanical service indicator
N
Without indicator

Drain

F64 – F64H

Filter element:

- Coalescing
- Non coalescing

Servicing

1. Open manual drain to expel accumulated liquids. Keep liquids below element (58, 60).
2. To operate automatic drain manually, lift operating pin in bottom outlet with a blunt rod.
3. Replace filter element when pressure drop across element exceeds 0.7 bar (10 psig). The mechanical service indicator shows approximately full red.

Disassembly

1. Shut off inlet pressure. Reduce pressure in inlet and outlet lines to zero.
2. For ease of maintenance the unit can be removed from the yoke by unscrewing the clamp ring, which will jack the unit out down wards.
3. Lift and turn the filter bowl counterclockwise and remove with bowl o-ring.
4. Disassemble in general accordance with the item numbers on exploded view. Do not remove the drains or the service indicator unless replacements necessary. Remove and replace only if they malfunction.

Installation

1. Install unit vertically 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. Before assembling the basic unit into the yoke the port seal o-rings should be lightly smeared with o-ring grease.
3. Locate clamp ring under lugs on top of yoke, offer basic unit into yoke with directional arrows correctly aligned (an interference fit prevents assembly if misaligned) before engaging and fully tightening the clamp ring.
4. Turn bowl or bowl guard fully clockwise into body before pressurizing. Lock symbols on body and bowl guards must align.
5. Auto-drain units may be fitted with a short drain pipe and connector, minimum 5 mm bore, to the G1/8 bottom outlet.
6. Push bowl, or bowl with guard, into body and bore, to the G1/8 bottom outlet.
7. Install a Norgren general purpose filter with a 5 µm element upstream of the oil removal filter to obtain maximum element service life.
8. Turn bowl into body until arrowhead on bowl is aligned with or to the right of the arrowhead on the body.

Servicing life indicator

- A: Automatic
- D: Mechanical service indicator
- N: Without indicator

Model selection

<table>
<thead>
<tr>
<th>Model</th>
<th>Bowl</th>
<th>Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>F64C</td>
<td>D</td>
<td>D</td>
</tr>
<tr>
<td>F64H</td>
<td>D</td>
<td>D</td>
</tr>
</tbody>
</table>

Materials:
Body: Zinc
Bowl:
- Metal: Aluminium
- Transparent, optional: Polycarbonate
- Metal bowl liquid level indicator lens, standard: Grilamid
- Metal bowl sight glass, optional: Pyrex
Element: Composite materials
Elastomers: Synthetic rubber
Mechanical service indicator materials:
Body: Transparent Nylon
Internal parts: Acetal
Spring: Stainless steel
Elastomers: NBR

Replacement items
Service kit,
contains required items circled: 4380-200
Pyrex sight glass 4380-040
Prismatic sight glass 4380-041
Filter element:
F64C 4344-01
F64H 4344-02
Manual drain 684-84
Automatic drain 3000-97
Mechanical service indicator (15797-50

Installation
1. Install unit vertically in air line -
   - vertically (bowl down),
   - with air flow in direction of arrow on body,
   - upstream of regulators, lubricators, and cycling valves,
Cleaning
1. Element (58, 60) cannot be cleaned. Clean plastic bowl and lens (45) with warm water only. Clean indicator (1) with dry, clean cloth. 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.
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 with o-ring grease.
2. Assemble the unit as shown on the exploded view.
3. Arrows on indicator (3) and body (6) must point in the same direction. Push bowl, or bowl with guard, into body and turn fully clockwise.
4. Torque Table
<table>
<thead>
<tr>
<th>Item</th>
<th>Torque in N-m (Inch-Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>58, 60 (Element)</td>
<td>0.5 to 1 (5 to 9)</td>
</tr>
</tbody>
</table>
5. Turn bowl or bowl with guard fully clockwise into body.

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
Polycarbonate plastic bowls can be damaged and possibly burst if exposed to such substances as certain solvents, strong alkalis, compressor oils containing ester-based 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 non-industrial applications, or for life-support systems consult Norgren.

Use in potentially explosive atmospheres
Code of device according EC directive 94/9/EC Ex II 2 GD c TX
- Only non-flammable gases 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.