

## Option selector

### Bowl/ Element

C Standard  
H High flow

**Port**  
2 1/4"  
3 3/8"  
4 1/2"  
6 3/4"

**Thread**  
A PTF (1/8 PTF gauge ports)  
B ISO Rc taper (1/8 ISO Rc gauge ports)  
G ISO G parallel (1/8 ISO Rc gauge ports)  
N No thread (basic unit)

### Service life indicator

D Mechanical service indicator  
N Without indicator

**Drain**  
A Automatic  
M Manual  
Q Manual 1/4 turn

### Bowl

D Metal  
P Transparent with guard  
R Metal with Pyrex sight glass

### Element

O Coalescing



F64★ - ★★ - ★★

## 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° ... +50°C (0° ... +125°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).  
Particle removal: Down to 0,01 µm  
Air quality: Within ISO 8573-1, Class 1.7.2  
Maximum remaining oil content in outlet air: 0,01 mg/m<sup>3</sup> at +21°C (+70°F) with an inlet concentration of 17 ppm  
Maximum flow at 6,3 bar (90 psig) inlet pressure\*\*: 16 dm<sup>3</sup>/s (34 scfm) F64C, 28 dm<sup>3</sup>/s (60 scfm) F64H  
\*\* to maintain stated oil removal performance.

Automatic drain connection: 1/8"  
Automatic drain operating conditions:  
Minimum pressure: 0,7 bar (10 psig). Drain opens when bowl pressure drops below 0,2 bar (3 psig)  
Minimum air flow:  
1 dm<sup>3</sup>/s (2 scfm) required to close drain  
Nominal bowl size: 0,2 litre (7 fluid oz)  
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

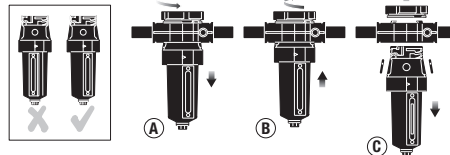
## Replacement items

Service kit,  
contains required items circled: 4380-200  
Prismatic sight glass 4380-040  
Pyrex sight glass 4380-041  
Filter element:  
F64C 4344-01  
F64H 4344-02  
Manual drain 684-84  
Automatic drain 3000-97  
Mechanical service Indicator (1)5797-50

## 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,

- 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 turn fully clockwise before pressurizing.
  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.

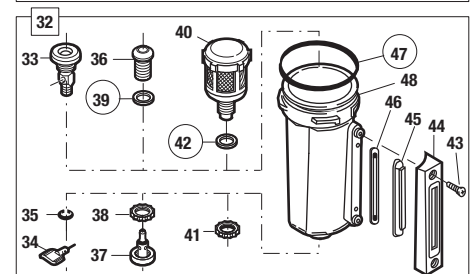
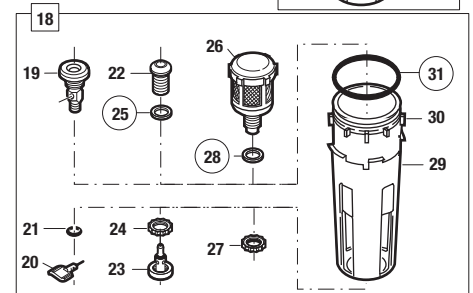
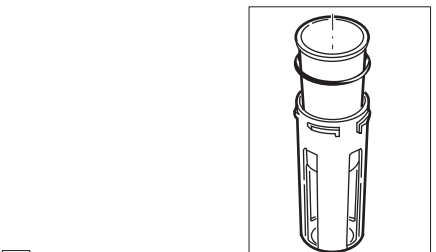
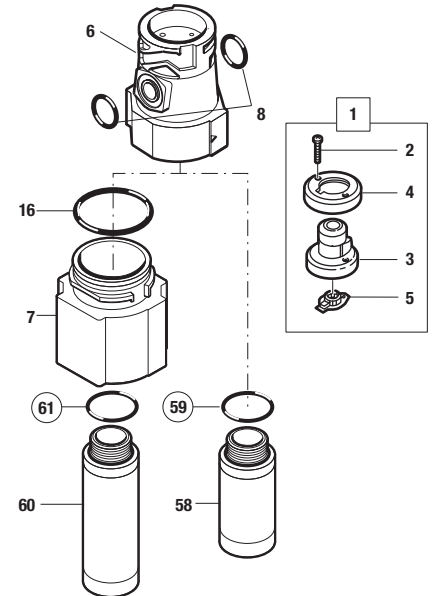


## Servicing

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 downwards.
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 replacement is necessary. Remove and replace only if they malfunction.



**Cleaning**

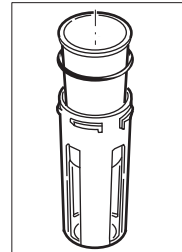
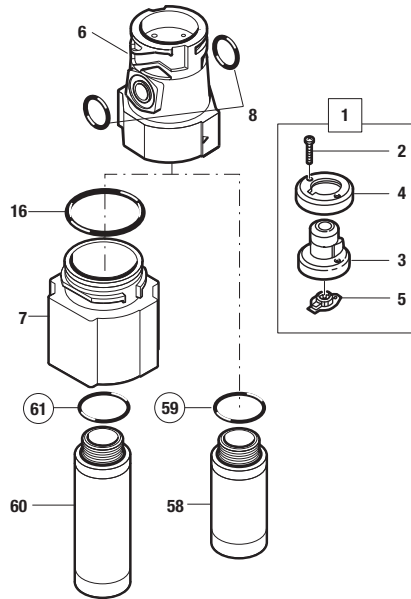
1. Element (58, 60) cannot be cleaned. Clean plastic bowl and lens (45) with warm water only. Clean indicator (1) with dry, clean cloth. Clean other parts with warm water and soap.
2. Rinse and dry parts. Blow out internal passages in body (6) with clean, dry compressed air.
3. Inspect parts. Replace 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 same direction. Push bowl, or bowl with guard, into body and turn fully clockwise.
4. Torque Table

Item	Torque in	
	N-m	(Inch-Pounds)
58, 60 (Element)	0,5 to 1	(5 to 9)

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 gaseose 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.

