

**Miniature Series 07  
Oil Removal Filter  
1/8" and 1/4" Port Sizes**

- **Compact design**
- **High efficiency oil and particle removal**
- **Screw-on bowl reduces maintenance time**
- **Can be disassembled without the use of tools or removal from the air line**



### 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 +65°C (0° to +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 (particulates) and Class 2 (oil content)

Maximum remaining oil content of air leaving the filter: 0.01ppm at +21°C (+70°F) with an inlet oil concentration of 17 ppm.

Maximum flow with 6,3 bar (90 psig) inlet pressure†:

G1/8 ports, 2,8 dm³/s (6.0 scfm)

G1/4 ports, 3 dm³/s (6.36 scfm)

† Maximum flow to maintain stated oil removal performance.

Nominal bowl size: 31 ml (1 fluid ounce)

Drain connection: 1/8" pipe

Automatic drain operation: Spitter type drain operates momentarily when a rapid change in air flow occurs or when the supply pressure is reduced.

Materials:

Body: Zinc

Bowl:

Transparent: Polycarbonate

Metal: Zinc

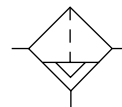
Element: Synthetic fiber and polyurethane foam

Elastomers: Neoprene & nitrile

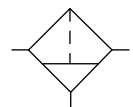
### Ordering Information

See *Ordering Information* on the following pages.

### ISO Symbols



Automatic drain



Manual drain



## Typical Performance Characteristics

| INLET PRESSURE |        | MAXIMUM FLOW† |        |
|----------------|--------|---------------|--------|
| bar            | (psig) | dm³/s         | (scfm) |
| 1              | (15)   | 1,2           | (2.5)  |
| 3              | (45)   | 2,0           | (4.2)  |
| 5              | (70)   | 2,7           | (5.7)  |
| 6,3            | (90)   | 3,0           | (6.4)  |
| 7              | (100)  | 3,1           | (6.6)  |
| 9              | (130)  | 3,6           | (7.6)  |

† Maximum flow to maintain stated oil removal performance.

**Ordering Information.** Models listed include ISO G threads, automatic drain and transparent bowl.

| Port Size | Model Numbers | Saturated Flow*<br>Flow dm³/s (scfm) | Dry Flow†<br>Flow dm³/s (scfm) | Weight kg (lbs) |
|-----------|---------------|--------------------------------------|--------------------------------|-----------------|
| G1/8      | F39-100-A0TG  | 2,8 (6.0)                            | 5,3 (11.2)                     | 0.13 (0.28)     |
| G1/4      | F39-200-A0TG  | 3,0 (6.4)                            | 5,8 (12.2)                     | 0.13 (0.28)     |

\* Approximate flow at 6,3 bar (90 psig) inlet pressure and 0,3 bar (5 psig) pressure drop.

† Dry flows apply only when all oil, water, and other aerosols are removed.

## Alternative Models

| Port Size |  | Substitute |  |
|-----------|--|------------|--|
| 1/8"      |  | 1          |  |
| 1/4"      |  | 2          |  |

| Option         |  | Substitute |  |
|----------------|--|------------|--|
| Not applicable |  | 0          |  |

| Option         |  | Substitute |  |
|----------------|--|------------|--|
| Not applicable |  | 0          |  |

| Threads        |  | Substitute |  |
|----------------|--|------------|--|
| PTF            |  | A          |  |
| ISO Rc taper   |  | B          |  |
| ISO G parallel |  | G          |  |

| Bowl        |  | Substitute |  |
|-------------|--|------------|--|
| Transparent |  | T          |  |
| Metal       |  | M          |  |

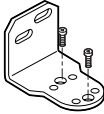
  

| Element    |  | Substitute |  |
|------------|--|------------|--|
| Coalescing |  | 0          |  |

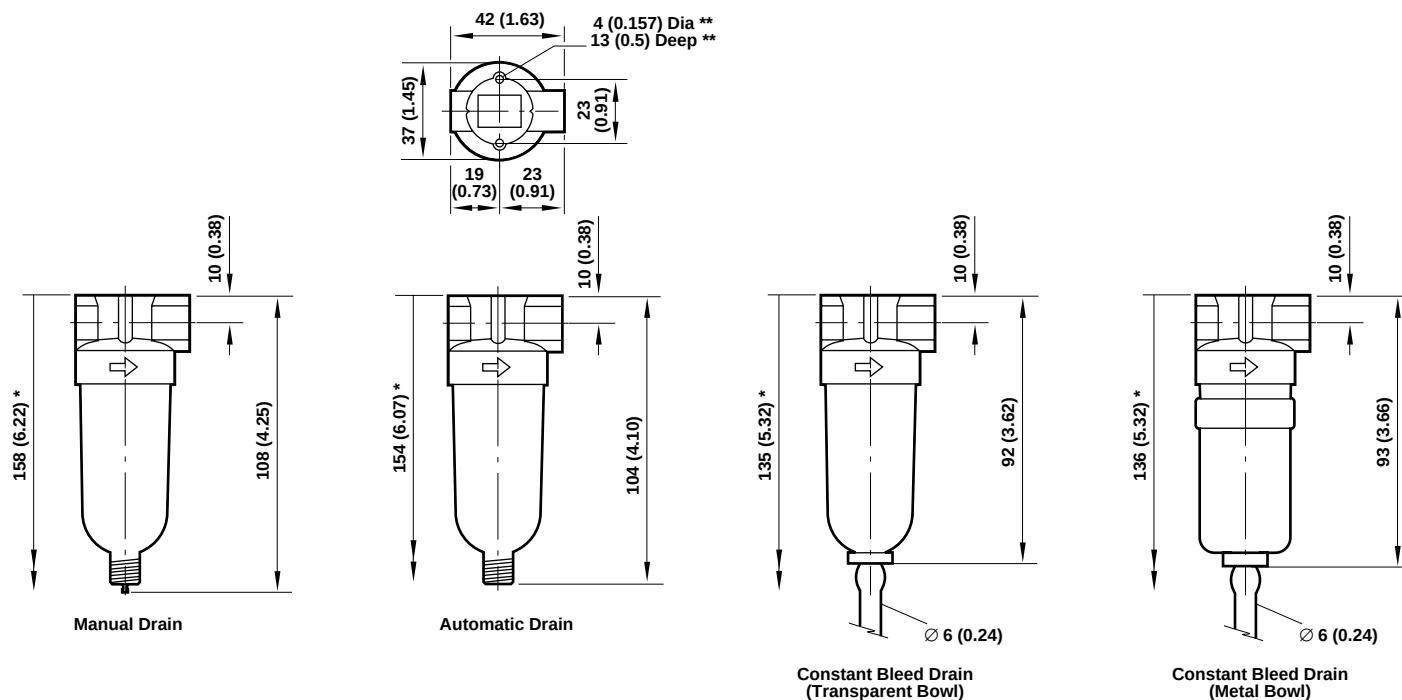
| Drain          |  | Substitute |  |
|----------------|--|------------|--|
| Automatic      |  | A          |  |
| Manual         |  | M          |  |
| Constant bleed |  | B          |  |

## Accessories

|                                                                                     |
|-------------------------------------------------------------------------------------|
|  |
| Wall Mounting Bracket<br>and Body Screws                                            |
| 5939-06                                                                             |
|                                                                                     |
|                                                                                     |



## Dimensions mm (inches)

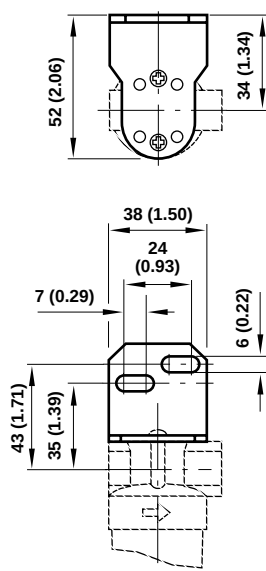


\* Minimum clearance to remove bowl.

\*\* Mounting holes.

## Bracket Mounting

Use 1/8" (3 mm) screws to mount bracket to wall.



## Bracket Kit Reference

| Item       | Part Number |
|------------|-------------|
| All models | 5939-06     |

## Service Kits

| Item               | Type       | Part number |
|--------------------|------------|-------------|
| Service kit        | All models | 4141-10     |
| Replacement drains | Manual     | 773-03      |
|                    | Automatic  | 3654-02     |

Service kit includes element, element o-ring, and bowl o-ring.



## 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'**.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

**System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.**

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

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