

18 Series
Oil Removal Filter
1 1/2" and 2" Port Sizes

- High efficiency oil and particle removal
- Highly visible, prismatic liquid level indicator lens
- Patented quarter turn manual drain
- Can be disassembled without removal from the air line
- Two gauge ports on top of body for installation of pressure gauges
- Standard service indicator turns from green to red when the filter element needs to be replaced
- Optional electrical service indicator also available



Technical Data

Fluid: Compressed air

Maximum pressure: 17 bar (250 psig)

Operating temperature:* -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 in outlet air: 0.01 ppm at +20°C (+70°F) with an inlet concentration of 17 ppm

Maximum flow for oil-saturated element at 6,3 bar (90 psig) inlet pressure to maintain stated oil removal performance:

1 1/2" Ports: 118 dm³/s (250 scfm) 2" Ports: 142 dm³/s (300 scfm)

2" Ports, high flow element: 283 dm³/s (600 scfm)

Typical flow for dry element at 6,3 bar (90 psig) inlet pressure and 0,3 bar (5 psid) pressure drop:

1 1/2" Ports: 368 dm³/s (780 scfm)

2" Ports: 392 dm³/s (830 scfm)

2" Ports, high flow element: 1 086 dm³/s (2 300 scfm)

Nominal bowl size: 0,2 litre (7 fluid ounce)

Manual drain connection: 7/16-24 UNS male for 1/4" tube nut and ferrule

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 dm³/s (2 scfm) required to close drain.

Materials:

Body, intermediate body, bowl: Aluminum Metal bowl liquid level indicator lens:

Transparent nylon

Filter element: Synthetic fiber and

polyurethane foam

Elastomers: Neoprene and nitrile

Service indicator:

Body: Transparent nylon Internal parts: Acetal Spring: Stainless steel Elastomers: Nitrile

Ordering Information

See Ordering Information on following pages.

ISO Symbols



Automatic drain



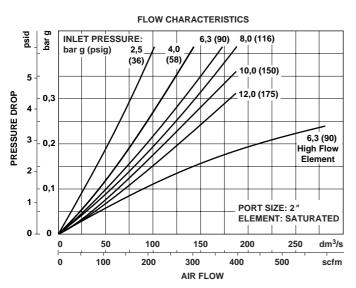
Manual drain

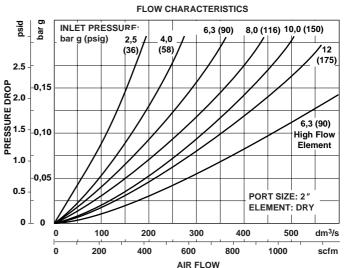


Typical Performance Characteristics

Inlet Pressure		Maximum Flow†	
bar	(psig)	dm ³ /s	(scfm)
2,5	(36)	61,4	(130)
4	(58)	103,8	(220)
6,3	(90)	141,6	(300)
8	(116)	161,0	(341)
10	(150)	195,9	(415)

[†] Maximum flow to maintain stated oil removal performance.

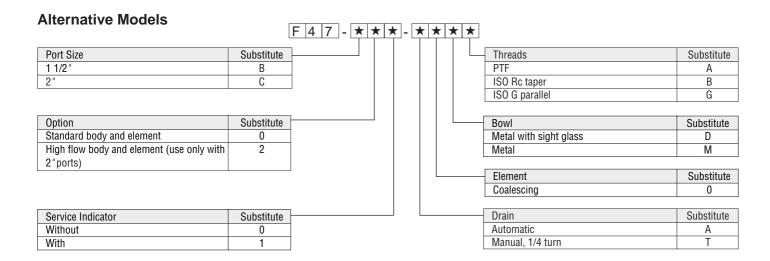




Ordering Information. Models listed include service indicator, automatic drain, metal bowl with sight glass, and ISO G threads.

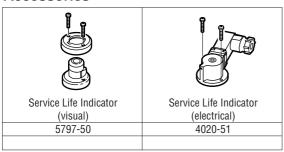
Port Size	Body and Element	Model Numbers	Flow dm ³ /s (scfm) *	Weightkg (lbs)
G1 1/2	Standard	F47-B01-A0DG	118 (250)	7,04 (15.51)
G2	Standard	F47-C01-A0DG	142 (300)	6,47 (14.26)
G2	High Flow	F47-C21-A0DG	283 (600)	10,06 (22.17)

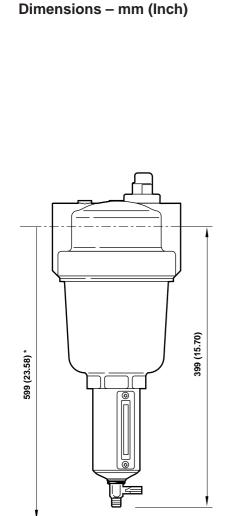
Maximum flow at 6,3 bar (90 psig) inlet pressure to maintain stated oil removal performance.



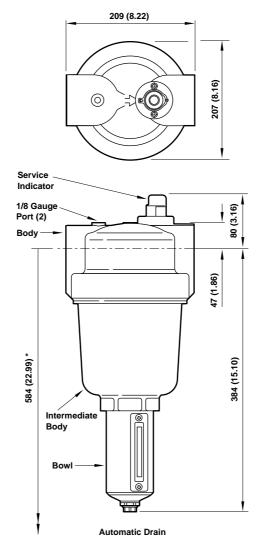


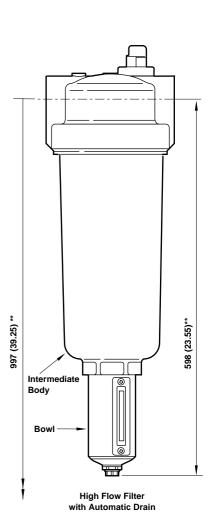
Accessories





1/4 Turn Manual Drain





- * Minimum clearance required to remove intermediate body and bowl.
- ** Minimum clearance required to remove intermediate body and bowl. Add 15 mm (0.59") for 1/4 turn manual drain.

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Service Kits

Item	Туре	Part Number
Service kit	Standard	3203-02
Service Kit	High Flow	3203-05
Liquid level lens kit	Prismatic	4380-050
	Automatic (1/8 NPT outlet)	3000-10
Replacement drains	Automatic (G 1/8 outlet)	3000-97
	Manual quarter turn	619-50
Service life indicator	Visual	5797-50
Jervice ine malcator	Electrical	4020-51

Service kit contains body o-ring, element, element gasket, automatic drain gasket, 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.