

FINE CONTROLS (UK) LTD



Fine Controls have been supplying process controls & instrumentation equipment since 1994, & now serves an ever expanding customer base, both in the UK & globally.

We offer a full range of valve & instrumentation products & services, with our product range representing leading technologies & brands:

Flow: Flow Meters & Transmitters, Flow Switches, Flow Control Valves & Batch Control Systems

Temperature: Temperature Probes & Thermowells, Temperature transmitters, Temperature Regulators & Temperature Displays

Level: Level Transmitters & Switches

Pressure: Pressure Gauges & Transmitters, Precision & High Pressure Regulators & I-P Converters, Volume boosters.

Precision Pneumatics: Pressure Regulators, I-P Converters, Volume Boosters, Vacuum Regulators

Valves: Solenoid & Pneumatic Valves, Control Valves & Positioners, Actuated Ball, Globe or Diaphragm Valves & Isolation Valves

Services: Repair, Calibration, Panel Build, System Design & Commissioning

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FAIRCHILD



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SIEMENS



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SOLENOID VALVES

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MIDLAND-ACS
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Honeywell



Bourdon
Baumer Group



SOLDO
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Fine Controls (UK) LTD, Bassendale Road, Croft Business Park,
Bromborough, Wirral, CH62 3QL UK
Tel: 0151 343 9966
Email: sales@finecontrols.com



Features

The Fairchild Automatic Drain Filter Series is designed for use in systems that require clean, oil-free air. This series consists of a particulate filter and two coalescing filters with automatic drains. You can easily replace all filter elements.

Automatic Drain Filters are highly effective in removing oil and liquid-borne particulate matter. These units are recommended for use when clean air or inert gas environments are required in laboratory air, process control, instrument and compressed air systems. Automatic Drain Filters have the following features:

- Pre-filters remove water and dirt particles from air lines up to a maximum size of 5 microns.
- Coalescing filters are available in 0.3 micron and 0.01 micron sizes to remove 99.9% of oil mist.
- Maximum operating pressure of 150 psig.
- Differential pressure automatic drain provided on 1/4" port, 5-micron pre-filter. Float type automatic drain provided on all others.
- Easily replaceable filter element saves service time.
- Die cast aluminum or zinc body with Polycarbonate bowl and metal guard assures safety and durability.

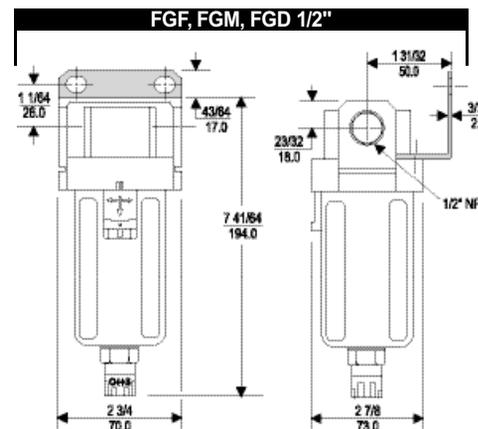
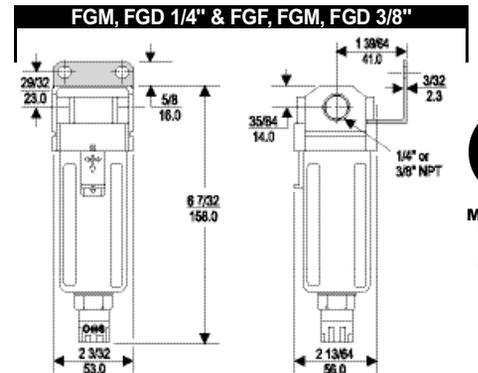
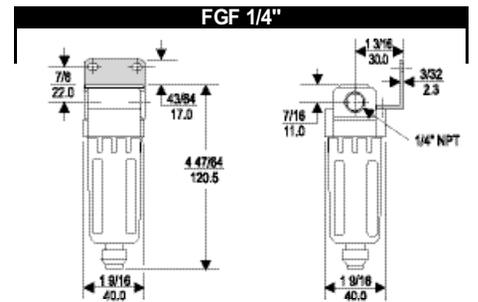
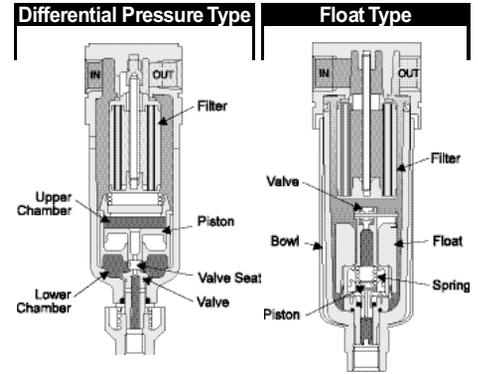
Operating Principles

Differential Pressure Type

Before air is supplied to the Filter, the Piston rests against the Valve Seat. When air pressure greater than 15 psig is supplied to the Filter, air pressure in the Upper Chamber acts against the Piston to bring the Valve Seat against the Valve. As air withdraws from the Filter, pressure in the Upper Chamber decreases to create a pressure differential between the Upper and Lower chambers. The Piston moves upward to open the Valve and drain the collected fluid. As the fluid drains, pressure in the Lower Chamber decreases. The higher pressure in the Upper Chamber acts against the Piston to bring the Valve Seat against the Valve. When the air flow through the Filter is constant, the pressures in the Upper and Lower chambers are equal and the Valve remains closed.

Float Type

Before air is supplied to the Filter, the Spring force holds the Piston open. The Float, in its lowest position, closes off the Valve. When air is supplied to the Filter, the force of air pressure acting on the bottom of the Piston overcomes the Spring force that holds the Piston open and closes the drain passage. As fluid collects in the Bowl, the Float rises and opens the valve. The force of air pressure that acts on the top of the Piston is greater than the force of the air pressure that acts on the bottom of the Piston. This force drives the Piston down, opens the passage, and allows the Bowl to drain.



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Models
FGF
FGM
FGD

