

Flow Indicating Basket Filter

All-in-One: Flow measurement, Filtration and Regulation

Applications

Rain Bird's Flow Indicating Basket Filter line provides flow measurement, filtration and pressure regulation to any residential or commercial irrigation system with a flow range of 3 gpm to 20 gpm (11,4 to 75.70 L/m).

The dial at the top of the filter cap provides diagnostic information related to the operation of the zone; saving time and simplifying maintenance.

The Indicator bezel provides a way to mark the appropriate flow rate for the zone upon install and therefore allowing for a visual indication of potential system issues, such as; leaks or excessive flow, filter maintenance, weeping valves or system blockage. Ideal for drip zones.

Features

All-in-One Zone Protection

- Provides flow measurement, filtration (stainless steel, 150 mesh), and 40 psi integrated pressure regulation in an all-in-one compact product that protects your irrigation system.

Knowledge That Gives You Control

- The Flow Indicating Basket Filter allows for easy monitoring of changes in the irrigation system with a quick glance to the dial, giving you additional control and peace of mind. Mark the appropriate flow rate of the zone upon installation to assess proper operation, filter maintenance and excessive or limited flow rate conditions long term.

Easy Maintenance & Installation

- Unique upright basket design provides easy access to clean the filter and prevents the debris from falling into the downstream line during routine maintenance.
- The retro-fit model provides the ability to upgrade any Rain Bird Filter model by simply changing the filter and the cap (less than one minute installation).

Operating Range

- **Operating Flow Rate:** 3.0 to 20 gpm (11,4 to 75.7 L/m)
- **Inlet Pressure:** 0 to 150 psi (0 to 10,3 bar)
- **Regulated Outlet Pressure:** (select models only): 40 psi (2,8 bar)
- **Filtration:** 150 mesh (100 Micron) stainless steel filter included
- **Water Temperature:** 33°F to 110°F (0,5°C to 43°C)

Specifications

Dimensions:

- **Height:** 6.8" (17.3 cm)
- **Length:** 6.5" (16.5 cm)
- **Width:** 3.5" (8.8 cm)



Models

- **FLOW-100-PRB:** 1" Flow Indicating Basket Filter with Pressure Regulation
- **IFLOW-100-PRB:** 1" Flow Indicating Basket Filter with BSP Threads
- **FLOW-100:** 1" Flow Indicating Basket Filter
- **XCZ-100-FLOW:** 1" Commercial Control Zone Kit with Flow Indication
- **FLOW-RETRO:** Flow Indicating Basket Filter Retro-Fit Kit

Replacement Stainless Steel Filters

- **FLOW120M:** 120 mesh / 125 micron
- **FLOW150M:** 150 mesh / 100 micron
- **FLOW200M:** 200 mesh / 75 micron

How to Specify

FLOW – **100** – **XXX**

Model

FLOW = NPT Threads

IFLOW = BSP Threads

Size

1"

Optional

PRB = Pressure Regulating Basket Filter (40 psi)

RETRO = Retrofit components to add flow indication to any Rain Bird Basket Filter

Specifications

The body shall be a vertical cylinder with the inlet and outlet inline at the bottom, a filter inside and a flow indicator as part of the cover. The body shall have male inlet and outlet threads. The dial shall be shown in 5 GPM or 10 L/m increments on a linear scale. The dial shall have a water-tight clear domed cover.

The top cap shall be removable by hand for access to the filter for maintenance. The top cover ring shall be adjustable by lifting, rotating and pushing down to mark the appropriate flow rate for the zone and to check flow rate changes in the future.

The filter shall be removable by hand for cleaning and have a trap at the bottom so it may be removed without debris falling into the outlet. The filter media shall be stainless steel and shall be available in 120 mesh (green), 150 mesh (blue) and 200 mesh (white).

The pressure regulator mechanism shall be preset to a fixed pressure (40 psi / 2.8 bar) and integrated to the filter body (select models).

All parts shall be molded plastic, stainless steel, rubber or other non-corrosive materials.

FLOW-100-PRB & IFLOW-100-PRB

1" Flow Indicating Basket Filter with Pressure Regulation

Minimum Inlet Pressure for 40 psi (2.8 bar)

| Flow Rate | | Inlet Pressure Required | |
|-----------|-------|-------------------------|-----|
| gpm | l/min | psi | bar |
| 0.3 | 1.1 | 40 | 2.8 |
| 1 | 3.8 | 40 | 2.8 |
| 3 | 11.4 | 41 | 2.8 |
| 5 | 18.9 | 43 | 3.0 |
| 10 | 37.8 | 47 | 3.2 |
| 16 | 60.6 | 56 | 3.9 |
| 20 | 76.7 | 70 | 4.8 |

FLOW-100

1" Flow Indicating Basket Filter

Pressure Loss Characteristics

| Flow Rate | | Pressure Drop | |
|-----------|-------|---------------|------|
| gpm | l/min | psi | bar |
| 0.3 | 1.1 | 0.1 | 0.01 |
| 1 | 3.8 | 0.2 | 0.01 |
| 3 | 11.4 | 0.6 | 0.04 |
| 5 | 18.9 | 1.0 | 0.07 |
| 10 | 37.8 | 1.5 | 0.10 |
| 15 | 56.8 | 2.2 | 0.15 |
| 20 | 76.7 | 4.0 | 0.28 |

Healthy System



Leak in System



Dirty Filter



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