

“G Series” Filter Model

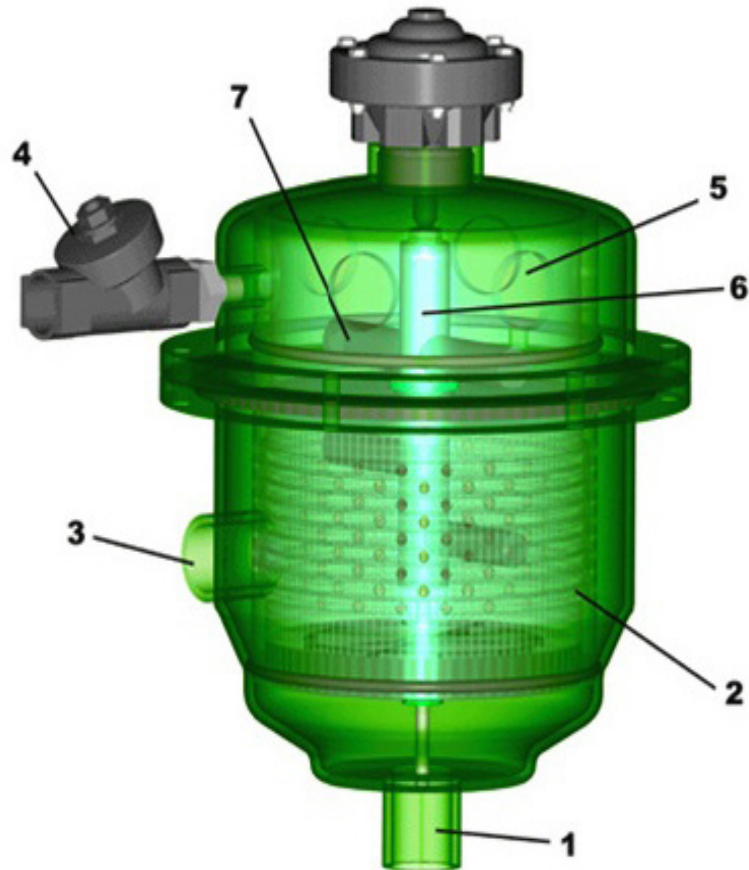
How It Works

Dirty water enters the inlet (1), where it goes into the center of the cylindrical fine screen element (2). The water then passes through the fine screen from the inside out and exits the outlet (3). The unwanted solids accumulate on the inner surface of the fine screen, creating a pressure differential across the screen element.

Once the pressure differential reaches a preset value (normally 7-psi), a rinse cycle is activated when the factory supplied control system opens the rinse valve (4) to an atmospheric drain. As a result, the pressure drops in the hydraulic motor chamber (5) and dirt collector assembly (6). The pressure drop causes water to back flush through the screen in an area the size of a dime (about 5/8”) at the nozzle openings which are located very close to the inner screen surface. This high velocity back flush stream sucks dirt off the screen, similar to a vacuum cleaner.

The backwash water is carried through the collector and is ejected out of the holes in the hydraulic motor (7). The water being ejected causes the collector to rotate. In addition, pressure is released from the hydraulic piston located at the top of the filter causing the collector assembly to move upward. This combination of rotational and linear movements ensures that the entire screen area is cleaned each cycle.

The cleaning cycle of the smaller ORG filters takes less than 10 seconds, discharging as little as 3 gallons per cleaning cycle while larger filter models can take up to 15 seconds to clean utilizing about 11 gallons of water.



Exploded View of the “G Series” filter

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