





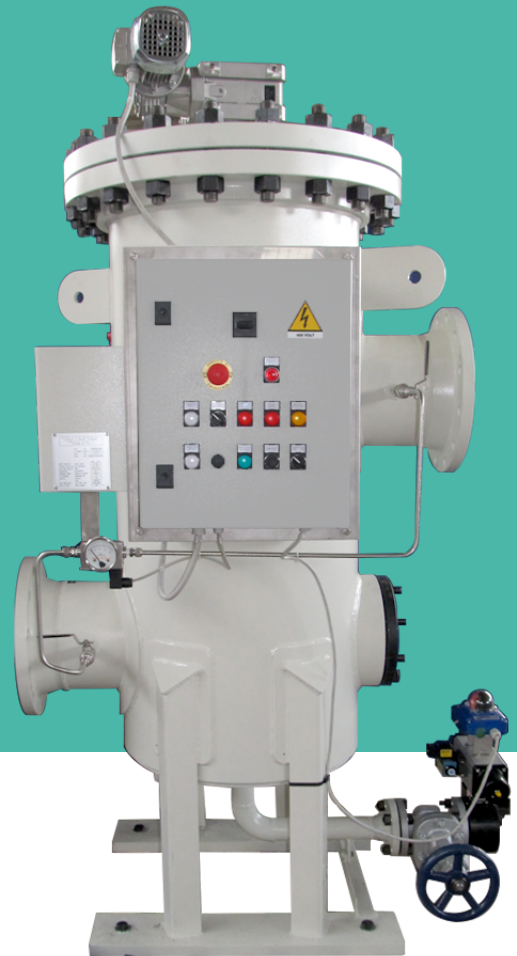


SELF-CLEANING FILTERS

Suitable for critical applications where continuous filter work is required are available in standard and special version with automatic and manual configuration.

OIL & GAS	CHEMICAL & PETROLCHEMICAL	WATER TREATMENT	ENERGY	FOOD & PHARMA	INDUSTRIAL
					



Applications

Oil & Gas

- Refinery Process Fluids • Off-shore Water Injection • Ammine Filtration

Chemical & Petrolchemical

- Process Fluids

Water Treatment

- Pre-filtration • Industrial Water Filtration • Drinking Water Filtration • Waste Water • Softening System Protection

Power Generation

- Process Fluids • Gas Separation • Water Treatment

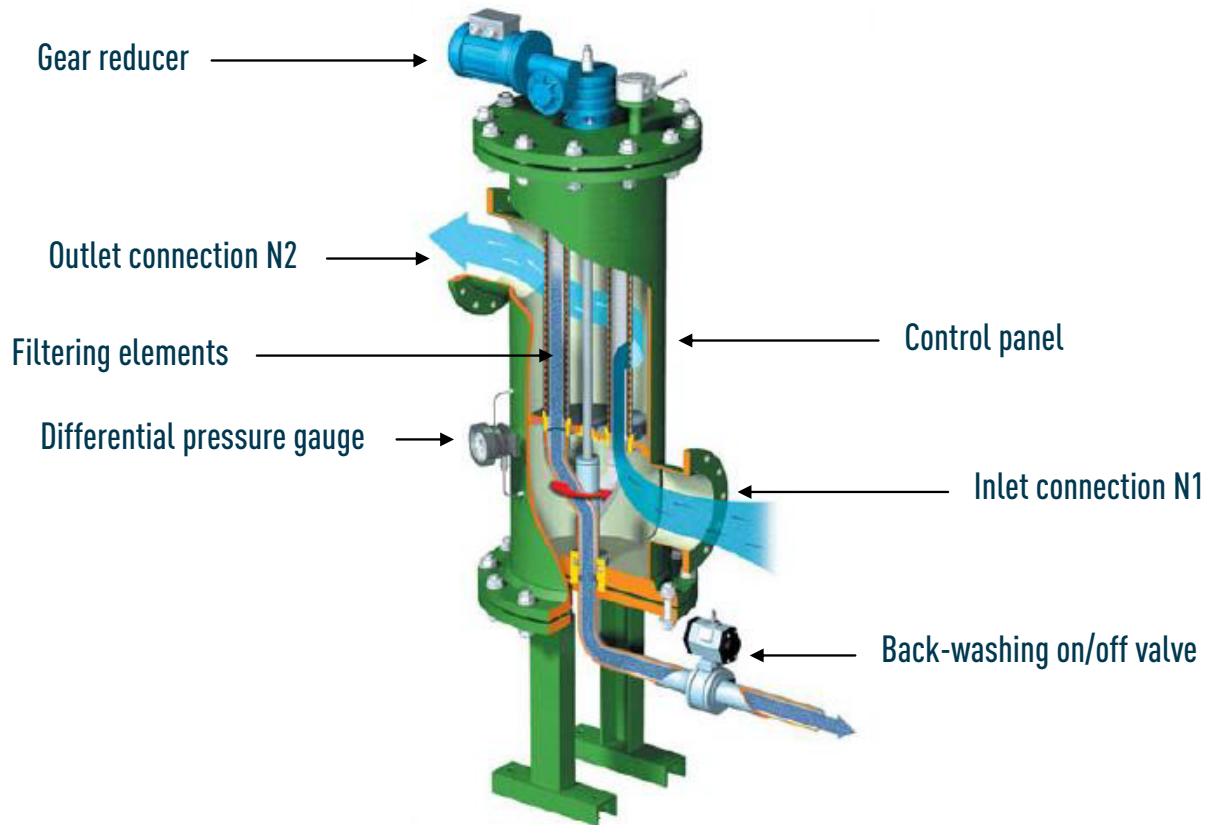
Food & Farma

- Prefiltration

Industrial

- Steel Production • Paints And Inks Production • Cataforesi • Mechanic Industry • Paper Mills • Textile Industry

Back-washing type Functioning description



Description of operation

The GV self-cleaning filter consists of the filter housing, the filter elements assembly group and of all the necessary fitting for its operation, including, in particular: differential pressure gauge with electrical contact, gear motor, control panel, motorized valves and internal mechanism. Operation:

The water enters through the nozzles N1, crosses the filter elements, with flow direction from inside to outside, and then exits the filter through the connection N2. The top of the filter, in which comes the filtered water, is hermetically separated from the lower chamber, from where the contaminated water enters into the filter candles. When the differential pressure gauge reaches the predetermined maximum value of differential pressure it sends the enable signal to the control panel, which activates at the same time the geared motor and the opening of discharge motorized valve. The gear motor action the interior revolver which, by rotating, allows the placing in communication of a filter element at a time with the discharge line. In this situation (with the exhaust valve open) the filter element is subjected to a pressure backwash (due to the fact that the inner chamber is under pressure while the discharge is atmospheric) and the impurities that have been accumulated inside it are removed and discharged through N3 connection. The cleaning cycle takes about a minute, once finished, in the case in which the pressure differential results still above the maximum value a new cycle will be made automatically (and so on until reaching the starting value) otherwise it is interrupted.

Through the control panel is also possible to provide periodic cleaning cycles independent of the differential pressure value. This process is provided in order to avoid an excessive accumulation of solids and therefore easier cleaning and longer service life.

Standard flow rate available from 50 to 12000 m³/h. Standard filtration degree from 10 to 1.000 microns.

More and / or different operating conditions can be evaluated from time to time and / or through installation of units in parallel.

The self-cleaning filters can be manufactured of carbon steel, internally rubber lined, stainless steel, duplex.