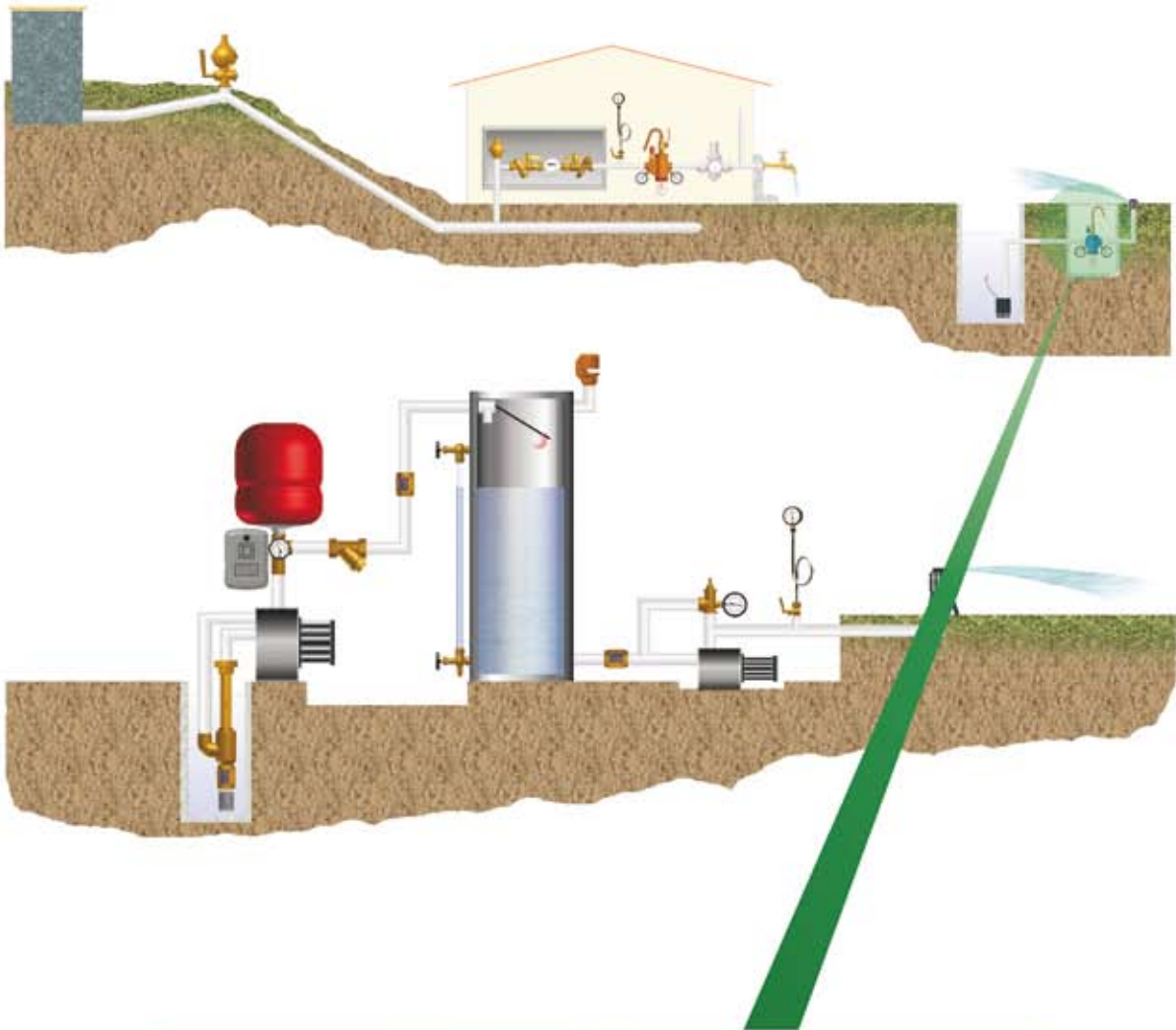


"ARION®" SELF-CLEANING STRAINER



“ARION®” SELF-CLEANING STRAINER

The Arion® strainer should be installed at the beginning of the water system (just after the water meters, if used in potable water distribution systems) and equipped with shut off valves installed before and after the strainer. Moreover, a by-pass is advisable in order to preclude water flow interruptions during maintenance procedures. Besides being self-cleaning and having a large filtration surface, the Arion® is setup to install gauges before and after the filtering cartridge which permits to control whether the cartridge is blocked and has to be cleaned.

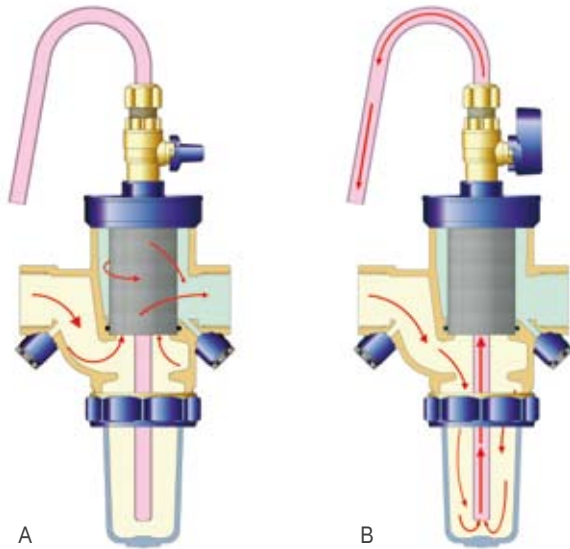
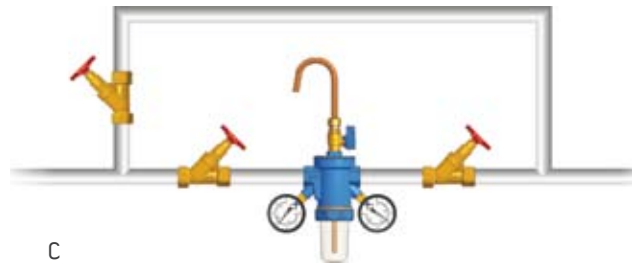


Figure A displays the Arion® strainer during normal operation. The water, which runs in the direction of the arrow, reaches the filtering cartridge and crosses it from the inside towards the outside. In this way, all impurities carried by the fluid are trapped in an efficient way. Once the water draw has ceased, the impurities trapped in the mesh fall into the cup through two diaphragms which prevent the sediments from returning into circulation. Figure B illustrates the operating principle that allows the expulsion of the impurities present at the bottom of the cup (functional draining). This operation is carried out by simply opening the discharging ball valve on the top plug of the Arion® strainer. The water which flows in the direction of the arrow, gets out through the copper tube whilst carrying out all the impurities present at the bottom of the cup. This operation is concluded by closing the same ball valve on the top plug of the Arion® strainer.

Due to its particular functioning, the Arion® strainer can only be installed vertically and only on horizontal piping whose fluid follows the sense indicated by the arrow. The cup must be facing down (Fig. C). Contrariwise, when opening the ball valve, the water flow would carry all of the impurities present in the cup into the piping again. It is recommended to ensure that at the point of installation there is sufficient space for removing the filtering cartridge (upper part) and for a possible replacement of the receptacle cup (lower part).



Concerning the ordinary maintenance, it is enough to regenerate the filtering cartridge when verifying a drop in pressure Δp through this device. It is advisable to carry out this maintenance at least once every three (3) months. Regenerating the filtering cartridge is incredibly simple, as you can see below: When the shut off valves connected before and after the strainer have been closed, simply remove the cover plug on the upper part of the Arion® strainer and take out the cartridge, wash it by letting water run through the cartridge in the opposite way.

The Arion® strainer should be cleaned regularly, especially for the brass cup model, since there is no way to visually perceive accumulation.

When placing the device in service for a new system, it is advisable to open and clean the installed strainer after a few hours of operation in order to clean out the typical residue from new piping installations. After cleaning the strainer, carefully observe the plug's sealing gasket, substituting it in case of any doubt. Prolonged inactivity of the strainer could cause dangerous bacterial growth. Thus, should inactivity last for longer than four (4) days, the strainer should be disinfected according to EN 805 §12.