



INSTRUCTION MANUAL

GFHD1 series

This filter can be used, under the service conditions described below, for all group 2 (non hazardous) liquids or gases and group 1 (hazardous) liquids with the exception of those classified as unstable, explosive or oxidizing.

Cannot be used for group 1 gas.

Complies with European regulations - Directive 2014/68 / EU art 4.3

Using condition :

Minimum service temperature : 0°C

Maximum Service temperature: :

- Group 2 liquid (non dangerous) : 120°C
- Group 1 liquid (dangerous) : maximum temperature must be below the boiling temperature of the liquid used

Maximum Pression in use :

filter type	max pressure allowed for use of liquid group 1 or 2	max pression allowed for use of gas group 2
GFHD105	20 bar	20 bar
GFHD11		15 bar
GFHD12		10 bar
GFHD13		

INSTALLATION

Mounting: When the filter is supplied with a support bracket, this bracket must be securely fixed to a wall or in a similar position. The molded head can then be attached using the two screws provided and the two most convenient holes on the head. If the filter is supplied without a bracket, it is important that the piping is adequately supported, so that the filter is not used as a support point.

Fitting :

Inlet / outlet: 1 "or 3/4", Female NPT or BSPP marked with a directional arrow on the molded filter head.
Pressure tap: optional, 1/4 " upstream and/or downstream, located on the filter head.
Drain: 3/4 "Female NPT located at the bottom of the tank.

Before commissioning we recommend that the filter be thoroughly rinsed

SAFETY INSTRUCTIONS - MUST BE READ BEFORE USING THE FILTER

- 1. Never open the filter when it is under pressure. This can be particularly hazardous with fluid being gas**
- 2. Never use the filter outside the indicated operating conditions (overpressure, vacuum, under or over temperature, not convenient fluid).**
- 3. For safety, it is recommended to install a relief valve to prevent overpressure.**
- 4. Never use the filter for purposes other than those for which it was designed.**
- 5. Special care should be taken to protect operators from contact with hot surfaces when used at high temperatures.**
- 6. Broken filter may be the result of improper use. Please ensure that the installation, use and maintenance procedures are carefully followed.**

The following parameters were not taken into account when calculating the filter, being considered negligible or inappropriate for this product:
static pressure on the head, circulation, wind, earthquake, fatigue, corrosion allowance, external fires, effect of decomposition of unstable fluid.

CAREFUL : ALWAYS MAKE SURE THE FILTER IS NOT UNDER PRESSURE BEFORE OPENING IT

Filter opening

If the filter was in service, refer to the Decommissioning section. Unscrew the sum screwed onto the filter head. Remove the sum, cartridge, and gasket. Put them in a place where they cannot be soiled or damaged.

To install filtering cartridge :

Check that the seals on the cartridge are free from any damage. Do not install a damaged cartridge.

Installing a DOE cartridge :

Put the cartridge in place in the tank and screw the tank back on, making sure that the cartridge sits well centered on the filter head. Screw the sum onto the filter head until manually tightened.

Tighten the bowl firmly to the filter head using the wrench provided.

Installing oring gasket cartridge with interface X3 / 222 or X6 / 226 :

Lubricate the O-rings with clean water or with the material to be filtered. Fit the cartridge by applying the O-ring side in the filter head. Push the cartridge all the way in with a slight rotation. Check that the seal is secured, and that the cartridge remains in position without assistance.

Closing the Filter :

Check that the filter head, the gaskets and the bowl are not damaged or dirty. Get rid of all foreign bodies and replace damaged parts if necessary. Screw on the tank by hand and then use the torque wrench to apply sufficient pressure to ensure a seal.

Commissioning :

Slowly open the inlet valve. For safety reasons make sure that the vent (option) and purge connections are secure and that the released fluids are directed to an appropriate drain or collection container. Appropriate measures must be taken in case of hazardous fluid. Slowly open the outlet valve.

The filter is now in operation: do not open it.

The filter can be maintained in service up to a differential pressure of 1.5 bars across the cartridge. When this differential pressure is reached the cartridge must be replaced.

Retirer la cartouche de son logement en tirant avec un mouvement de rotation qui facilitera la manœuvre.

Decommissioning:

Close the inlet then outlet valves.

CAUTION the filter is then always under pressure.

Before opening the filter, the pressure must be released. This can be done either through a vent opening upstream or downstream of the filter or through the drain opening. Before opening the filter, open the drain valve or plug to allow any liquid still in the filter to escape.

If the fluid is hazardous, appropriate measures must be taken before opening the filter.

Replacing the filter cartridge:

Unscrew the bowl using the wrench and then by hand.

Remove the cartridge from its housing by pulling with a rotational movement that will facilitate the maneuver.

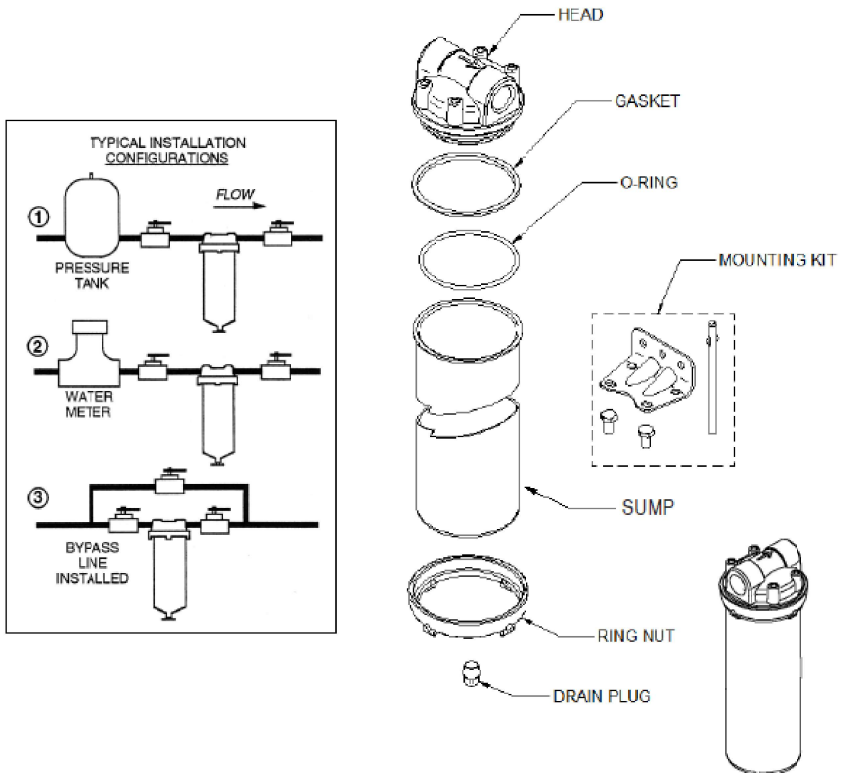
MAINTENANCE

The filter requires very little maintenance.

The outer surface must be kept clean which will prevent contamination when changing the cartridge.

Examine the cover gaskets at each opening and replace them if necessary.

The filter should be regularly examined inside and out for any damage or signs of corrosion.



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