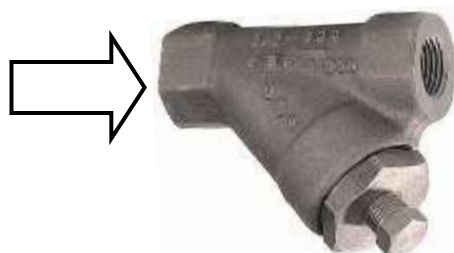


## INSTALLATION AND OPERATING MANUAL FORGED THREADED Y STRAINER

### INSTALLATION POSITIONS :

Horizontal position



Vertical position ( descendand fluid )



### GENERAL GUIDELINES :

- Ensure that the strainers to be used are appropriate for the conditions of the installation (type of fluid, pressure and temperature).
- Be sure to have enough valves to be able to isolate the sections of piping as well as the appropriate equipment for maintenance and repair.
- Ensure that the strainers to be installed are of correct strenght to be able to support the capacity of their usage.
- **Installation of all circuits should ensure that their function can be automatically tested on a regular basis (at least two times a year).**

### INSTALLATION INSTRUCTIONS :

- **Before installing the strainers, clean and remove any objects from the pipes** (in particular bits of sealing and metal) which could obstruct and block the strainers.
- **Ensure that both connecting pipes either side of the strainer (upstream and downstream) are aligned (if they're not, the strainer may not work correctly).**
- **Make sure that the two sections of the pipe (upstream and downstream) match, the strainer unit will not absorb any gaps. Any distortions in the pipes may affect the thightness of the connection, the working of the strainer and can even cause a rupture.** To be sure, place the kit in position to ensure the assembling will work.
- For the welding types, the temperature of the seat **should not exceed 350-400°C.**
- The theoretical lengths given by ISO/R7 for the tapping are typically longer than required, the length of the thread should be limited, and **check that the end of the tube does not press right up to the head of the thread.**
- **Never use a vice to tighten the fixings of the strainer.**
- **If sections of piping do not have their final support in place, they should be temporarily fixed. This is to avoid unnecessary strain on the strainer.**
- So that the maintenance operations could be easily done, place a stop valve before and after the strainer. Thereby, the strainer could be isolated. During this operation, ensure to have a new bonnet gasket to avoid a leakage during the restarting.
- **Fluids in the strainer must not contain solid objects ( it could damaged the seat ).**
- **Always change the gaskets if you have to disassemble the bonnet or the drain.**

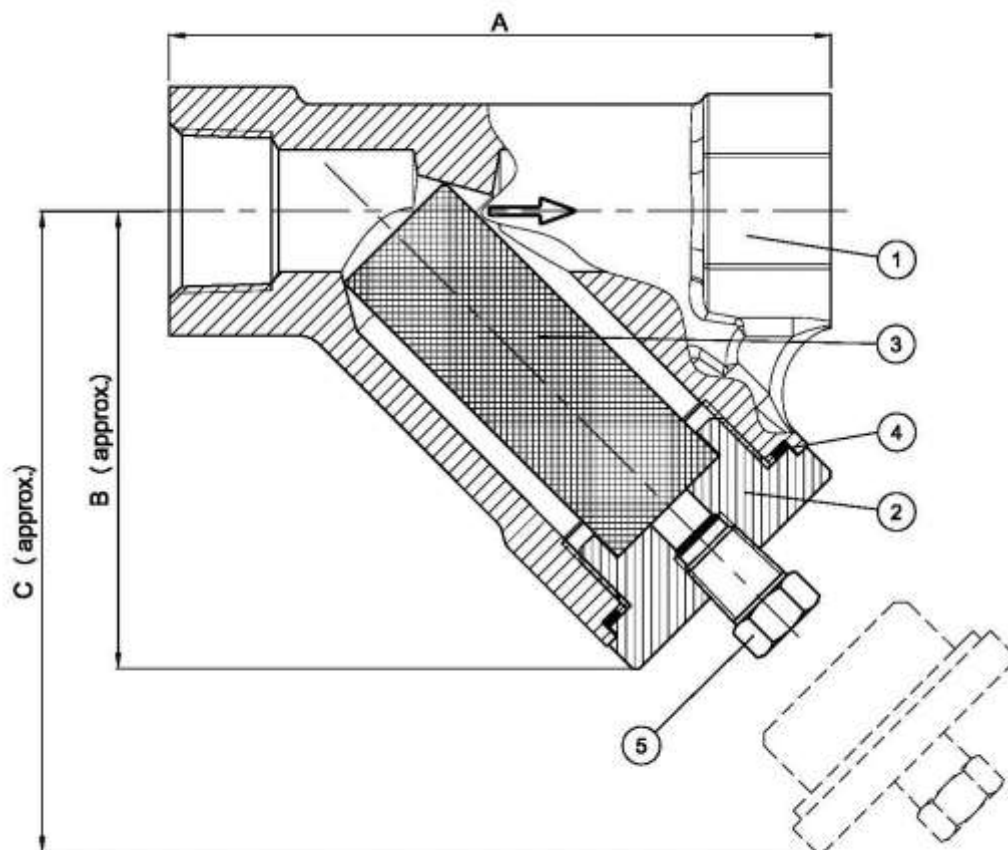
## INSTALLATION AND OPERATING MANUAL FORGED THREADED Y STRAINER

### MAINTENANCE :

- Both maintenance technician and user are responsible for periodic and correct maintenance.
- Both maintenance technician and user are responsible for compliance and enforcement of all safety rules in order not to endanger people and things.
- We recommend a periodic control to make sure that external walls of shell are not corroded because of atmospheric agents or other factors. Both maintenance technician and user have to establish the frequency of controls.
- Do not attempt to modify the shell, the filtering element and other parts of the strainer without a written authorization by the producer.
- After starting the plant and at least once a year or when pressure drops are excessive, we recommend a complete maintenance control. Controls also depend on quality of the fluid to filter; for this reason, both maintenance technician and user have to establish the frequency of maintenance controls.
- On strainers with a degree of filtration (with passage holes) of less than 100 microns, it is recommended to check the integrity of the filter element more frequently, checking in particular the condition of the mesh.
- If the drain hole is equipped with a valve, instead of a plug, you can coarsely clean the filtering element in case of emergency by draining small quantities of fluid with impurities. This operation can't replace in any way a complete maintenance control.
- Make sure that in the line where the strainer to be controlled was installed there is no pressure and/or dangerous fluids endangering people, things and environment.

## INSTALLATION AND OPERATING MANUAL FORGED THREADED Y STRAINER

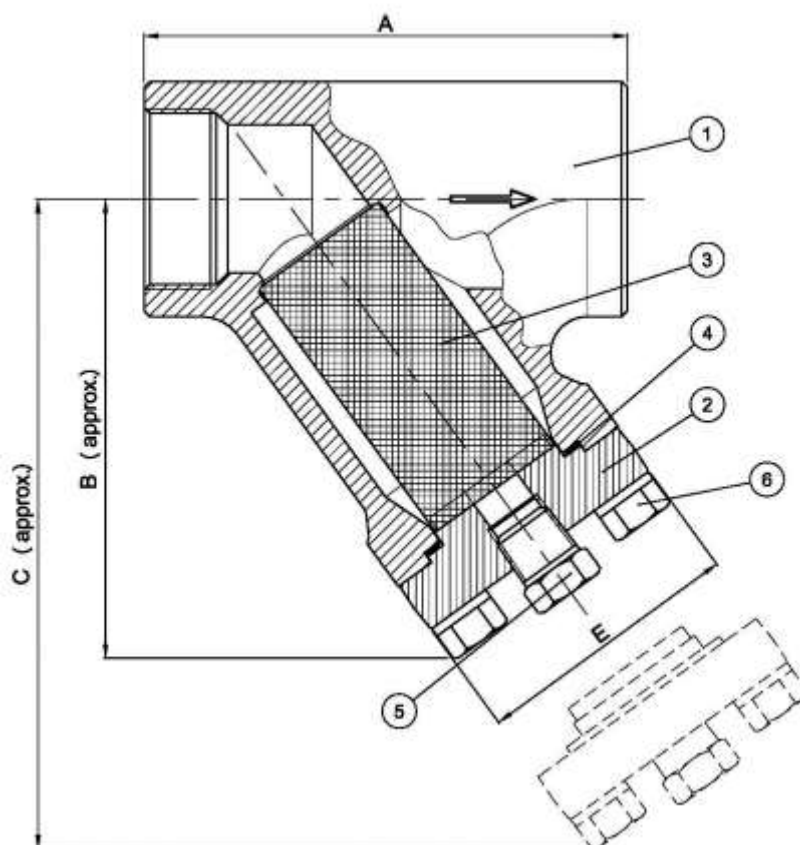
### STRAINER WITH SCREWED BODY-COVER JOINT:



- Unscrew the cover (2) using an ordinary fixed fork spanner or any other proper tool, moving anticlockwise.
- Take out the filtering element (3) and control it carefully. If it is still dirty, try to blow from the outside inwards with compressed air, or take any other suitable action to clean it. During the cleaning pay attention not to damage the filtering element - wash it by means of not corrosive and dangerous detergents, suitable with the fluid in line.
- If the filtering element is damaged or deformed, replace it with a new and original one by the builder, making sure that it has the same characteristics (dimensions, quality of material and grade of filtration) of the original.
- Clean carefully the internal part of the body and of the cap, make sure that it has not been corroded, endangering, in this way, the minimum wall of the shell. Put the filtering element in the case on the cap – replace the gasket (4) after having cleaned its case. Screw the cap (2) making sure that the filtering element (3) does not come out of its case on the cap. Close the cap by means of an ordinary fork spanner or any other proper tool.
- Give slowly pressure making sure that there are no leakages. Write the maintenance date on the strainer or on the label.

## INSTALLATION AND OPERATING MANUAL FORGED THREADED Y STRAINER

### STRAINER WITH BOLTED BODY COVER JOINT:



- Remove screws (6) using a simple hexagonal spanner or any other suitable tool. Remove the cap (2) and the gasket (4).
- Take out the filtering element (3) and control it carefully. If it is still dirty, try to blow from the outside inwards with compressed air, or take any other suitable action to clean it. During the cleaning, pay attention not to damage the filtering element. Wash it by means of not corrosive and dangerous detergents, suitable with the fluid in line.
- If the filtering element is damaged or deformed, replace it with a new and original one by the builder, making sure that it has the same characteristics (dimensions, quality of material and grade of filtration) of the original.
- Clean carefully the internal part of the body and of the cap, make sure that it has not been corroded, endangering, in this way, the minimum wall of the shell. Put the filtering element in the case on the cap – replace the gasket after having cleaned its case. Put the cap on the body making sure that the step on the cap is connected to the socket containing the gasket of the body.
- Tighten screws with an ordinary hexagonal spanner or any other suitable tool.
- Give slowly pressure making sure that there are no leakages. Write the maintenance date on the label.