

INSTALLATION AND OPERATIONS MANUAL “Y” TYPE STRAINER FILTER

Read all the information and instructions before to installing and operating the strainer. Failure to comply with these instructions could result in bodily injury or property damage.

RECEIVING, HANDLING AND INSPECTION

1. Inspect for damage occurring during transit. Report damage to the carrier. If the strainer is not installed immediately, store the strainer indoors in a clean, dry environment.
2. Verify that the rating of the strainer is greater than or equal to the maximum pressure and temperature of the installation.
3. Inspect strainer by checking for and removing any foreign or loose material that could be carried down stream when fluid is introduced into the strainer.

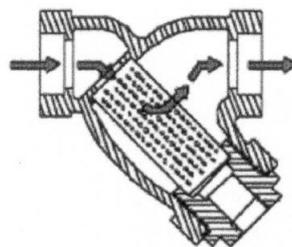
INSTALLATION

CAUTION

Before installation, review the application and chemical compatibility of the process fluid to the material of construction of the strainer. Check the valve rating is greater or equal than the maximum temperature and pressure of the installation.

CAUTION

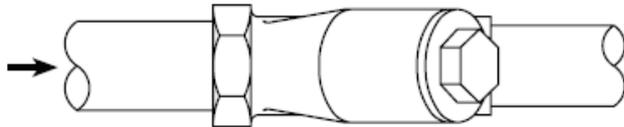
To lift the strainer, put slings under the inlet, outlet connections.



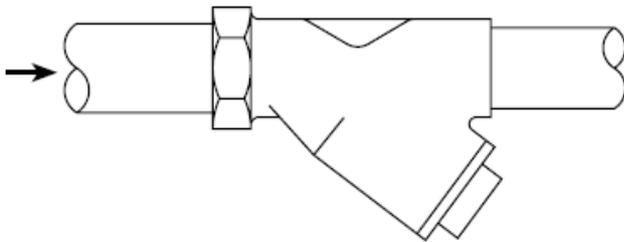
Directional Flow through a typical wye strainer

1. In case outer fire risk exists, it is necessary to mount the suitable equipment to protect the own filter and the rest of the installation.
2. To inspect internal parts and to eliminate any material stranger who can be dragged by the fluid, before installing the filter.
3. Position the strainer in the pipeline so that the fluid enters in the direction of the arrow cast into the strainer. Always install the strainer with the blow-off (drain) in the lowest position. Flow

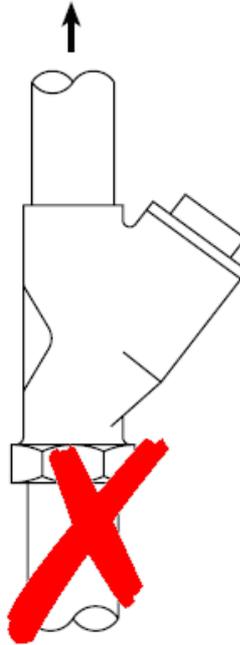
must be downward into the inlet of the strainer for satisfactory operation for vertical piping installations.



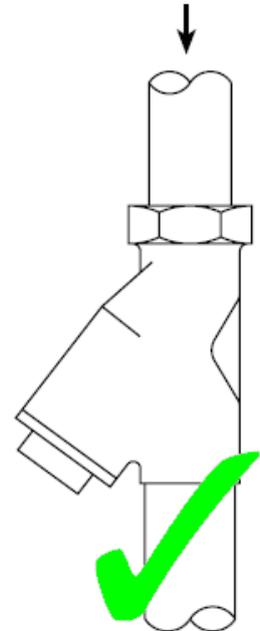
Strainer filter in gas or steam line



Strainer filter in liquid line



Flow upwards



Flow downwards

4. Be sure sufficient clearance is provided for easy opening of the cover (blow-off) and screen removal.
5. For larger sized strainers, support the strainer firmly in the pipeline. Piping must allow for adjustments due to strainer connection tolerances. Strainer supports must prevent piping forces and moments from acting on the strainer.
6. Connect the strainer to the pipeline. Use standard piping practice when installing the strainer.
7. Once installed the filter, the connections of the same they do not have of being able to move freely.

CAUTION

Y strainer is not designed to be anchor supports in the piping line. Be sure to properly support process piping on both sides of the strainer. Use care to prevent piping forces and moments from acting on the strainer connections. Damage may occur to strainer if improperly connected.

8. Y-strainers have no provision to accept gauges. Pressure gauges near the strainer inlet and outlet are required to determine differential pressure across the strainer and cleaning frequency. Pressure gauges are essential for the safe operation of the strainer and should be installed using standard piping practices.

START-UP

Start system GRADUALLY. This eliminates sudden shock to the strainer and other equipment in the line. This is EXTREMELY important for steam service.

WHEN TO CLEAN THE SCREEN

A differential pressure increase of **5 to 10 psi** across the strainer indicates that the screen is full of debris and needs to be cleaned.

CAUTION

To prevent screen damage, **DO NOT** permit differential pressure across the strainer to exceed 20 psi.

SCREEN REMOVAL, CLEANING OR REPLACEMENT. OR SHUT DOWN PERIODS

CAUTION

When you open the filter there is danger due to the internal pressure of it. The assembling and disassembling and cleaning of the filter will have to carry out having the precaution to eliminate the pressure in the conductions. Once isolated the filter of the conductions, if the fluid is hot you have to hope to it cools off before opening the filter. It will always be liquid in the low part of the filter that will leave when open its cover. In order to protect the operator it must use suitable protective equipment (glasses, gloves, vests, clothes, etc) in accordance with the process fluid, its pressure and its temperature.

1. Slowly close the pipeline valves upstream from the strainer. Then, slowly open the pipeline valves downstream from the strainer. After that, close the downstream valves too. Make sure all valves are tightly closed.
2. The strainer has internal pressure and fluid. Slowly open the cover (blow off). Remove cover (blow-off).
3. Remove the debris laden screen. Note: Do not permit the screen debris to dry as it would be difficult to remove and clean the screen.
4. Invert the screen and wash out debris by directing a stream of air or water against the screen exterior.
5. Inspect screen at each cleaning for holes or tears. Replace as needed with genuine GENE BRE screens. Always keep spare screens and gaskets in stock.
6. Inspect sealing surfaces and cover gasket. Clean sealing surfaces and cover (blow-off) seat. Replace cover (blow off) gasket as necessary.
7. Place the cleaned/ new screen squarely on the seat in the cover (blow off)
8. Replace the cover.
9. Follow the Start up instructions.