



## INSTALLATION AND MAINTENANCE INSTRUCTIONS

IMI 7.436

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# Pipeline Strainers for Steam, Liquid & Gas

### Installation:

1. Before installing the strainer, make sure the upstream and downstream piping is free of all foreign material, scale, etc.
2. Make certain the arrow cast on the strainer body is pointing in the direction of flow.
3. Install with adequate clearance provided for blowdown valve and screen removal between strainer on its side to minimize the amount of liquid lying in the screen area.
4. For horizontal steam and/or gas line service, it is recommended to install the strainer on its side to minimize the amount of liquid lying in the screen area.
5. Ensure any plastic plug fitted to the blowdown port is removed and plugged with a suitable metal plug.
6. For any steam and/or gas line service, a steam trap could be installed in the strainer blowoff line to remove all liquid in the screen area and improve the pressure drop across the strainer. The trap selected should have a built-in strainer and be a blast discharge type that resists fouling due to dirt.
7. Check maximum allowable working pressure and temperatures on the Spirax Sarco drawing against the actual working conditions.
8. A pressure gauge installed upstream and downstream of pipeline strainer will indicate pressure loss due to clogging and serve as a positive guide in determining the strainer condition.

### Maintenance:

1. For best screen cleaning results, remove the screen for removing debris and build up rather than just "blowing down".
2. For new installations, it is essential to remove and clean the screen or blow the strainer free of build up materials after the first few days of operation. Repeat thereafter as needed.
3. For maximum efficiency, determine the time required for the screen to become 1/3 clogged and then clean regularly. If the strainer is installed with a full bore blowdown valve, open with short blasts until sediment is removed. Where strainer is not fitted for blowdown, remove cap and screen and carefully brush out all sediment and wash with kerosene (or clean water if sterile condition exists) before reassembly.
4. During scheduled shutdowns, remove cap, clean and inspect screens for damage. The screen must be perfectly round and fit tightly in the body: otherwise, some sediment may bypass the collecting area. (Note: Spare screens and cap gaskets will facilitate shorter "shutdown time.")
5. When replacing screens, check the final position to ensure no damage during tightening of the strainer cap and to ensure that the screen will be tightly contained.

### Available Parts:

1. Strainer screen
2. Cap gaskets (where applicable)
3. Blowoff bushing or cap
4. Blowoff plug
5. When ordering parts, please include the following:
  - (a) Part name
  - (b) Strainer size
  - (c) Strainer type
  - (d) Perforation or mesh sizeEXAMPLE: 1/32" Perforated stainless steel screen for 3/4" Spirax Sarco Type IT strainer.

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