3 Hygienic In-Line Filters *Available with Slotted Tube (Wedge Wire) or Perforated Plate type Filtering Inserts*

3.1 Hygienic Stainless Steel Filters

The Saniquip 98 Series hygienic in-line filters are high quality German designed and manufactured filters suitable for the filtering and straining of process liquids in a wide range of sanitary applications. All stainless steel product contact surfaces are polished to a hygienic standard and all seals are manufactured from FDA compliant materials. Standard execution is the right angled 90° design but "straight through" and "Y-type" executions can also be offered. Standard end connections are butt weld for tube but other connection options are also available.

In the standard 90 degree execution the side outlet is positioned very close to the end of the housing minimizing any potential "dead flow" area.

For applications requiring only coarse filtration (1mm, 1.5mm, 2mm, 3mm etc.) the filters are offered with a filtering insert manufactured from perforated stainless steel plate.

Where finer filtration is required (eg. 0.05mm, 0.1mm, 0.15mm, 0.2mm, 0.5mm) the filters are offered with a slotted tube or wedge wire type filtering insert. The wedge wire type filtering insert consists of V-shaped profiles welded very accurately on to cross support bars allowing precise control of the distance between the v-shaped profiles. This distance is referred to as the slot opening. The standard execution offered by Saniquip is for flow from "inside to outside" of the filtering insert. On request the opposite flow direction can also be offered.

Wedge wire filtration offers the following advantages over traditional stainless steel "gauze & perforated plate" or "sock" type filter inserts:

- Greater mechanical strength
- Greater pressure resistance
- Suitability for manual cleaning or for automatic cleaning with reverse flow (backflushing)
- Improved abrasion and vibration resistance
- Particles don't become trapped between different layers (as can occur with perforated plate and gauze combinations)
- Substantially longer screen life
- Greater usable surface area

The Saniquip filtering inserts (perforated plate and wedge wire types) are also suitable for retrofitting directly to housings from some other manufacturers. Contact Saniquip for details.

Pressure loss information can be provided on request.

3.2 Hygienic Stainless Steel Filters - High Pressure

The Saniquip SMHP series in-line angular filters are suitable for use in high pressure hygienic applications.

They are suitable for working pressures of up to 50 bar and are of high quality European design and manufacture.

All stainless steel product contact surfaces are polished to a hygienic standard and all seals are manufactured from FDA compliant materials. The side inlet is positioned very close to the end of the housing minimizing any potential "dead flow" area.

Features:

- Suitable for working pressures up to 50 bar
- Available in sizes from 1½" to 4"
- AISI 316L stainless steel construction with polished internals
- Sanitary clamp connections for use with high pressure "bolted" clamps
- Slotted tube (wedge wire) filtering insert. Standard slot sizes 100 micron, 200 micron, 500 micron (special slot sizes available on request)

The Saniquip SMHP filters are available in side entry execution only (for flow from "outside to inside" of the cylindrical filtering insert).

Pressure loss information can be provided on request.

3.3 Hygienic In-Line Magnetic Filters

Saniquip in-line magnetic filters are of hygienic stainless steel construction with food grade seals and sanitary clamp connections (other connections on request). They are designed to remove particulates and micro-particulates containing iron or steel from liquid or semi-liquid line flow sytems. Powerful rare earth Neodymium magnet cores encapsulated in stainless steel cartridges effectively separate and trap these particulates until cleared by a plant operator. A quick release clamping arrangement allows for easy extraction of the internal cartridge for removal of the trapped particulates. The sump style housing ensures minimal pressure loss.

Several designs are available to suit various applications and a wide range of line sizes. A special high pressure execution can be offered on request. Options such as special alloy construction and alternative magnet materials are also available.

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