

# STATODYN

## PIPELINE STRAINER



### PURPOSE

- ◆ The BEAUDREY “STATODYN” pressure-line strainer is installed on a pipe.
- ◆ It arrests all particles larger than the filtration gauge
- ◆ It can handle large elements such as clams, shells, pebbles, small twigs as well as leaves, weed, plastics, etc
- ◆ It is self-cleaning
- ◆ It is used in all plants where a proportion of the water supply needs finer filtration including irrigation

### DESCRIPTION

- ◆ The STATODYN strainer comprises an inlet flange, an outlet flange, a filter body, the special cartridges and the flush valves
- ◆ Water enters the body, flows into the cartridges then through the mesh, is collected and flows out into the pipeline
- ◆ When the head-loss builds up because the cartridges have become clogged by the arrested debris, the strainer is flushed by opening, in turn and for a few seconds, the flush valve of each cartridge. The violent flow thus generated through the cartridge and valve carries away the deposited debris. The carefully-controlled turbulence created by the nature of the cartridge and the proportion between the various dimensions, are the key to the success of this apparently simple process
- ◆ The flush valves can be either hand-operated for occasional cleaning or power-actuated. The flushing cycle is actuated either at fixed intervals (time or operator instruction) or when the Delta P builds up (pressostat operation)

### ADVANTAGES

- ◆ Economical
- ◆ Compact and easy to install (inline or elbow layout)
- ◆ No maintenance as there are no moving parts
- ◆ Low head-loss
- ◆ Can handle both fine and larger debris (shells, etc.)
- ◆ Delivered fully-assembled
- ◆ Approved and used for nuclear plant safeguard circuits

## OPERATIONS

- ◆ Naturally, the finer the filtration size chosen for a given quality of water, the shorter the time between two flushing cycles
- ◆ In the same manner, the cleaner the water for a given filtration size, the less frequent the flushing cycle



## ANCILLARIES & OPTIONS

- ◆ Ancillaries
  - ◇ Differential pressure monitor
  - ◇ Power-actuated flush valves
  - ◇ Electrical switchgear control cabinet
- ◆ Optional features
  - ◇ Elbow or inline layout
  - ◇ Seismic qualification

## Materials

- ◆ Filter shell
  - ◇ For fresh-water applications: carbon steel or rubber-lined carbon steel
  - ◇ For seawater applications: Rubber-lined carbon steel, AISI 316L stainless steel, duplex or super-duplex stainless steel, GRP option for some sizes
- ◆ Internal parts:
  - ◇ For fresh-water applications: AISI 304L stainless steel
  - ◇ For seawater applications: AISI 316L stainless steel, duplex or super-duplex stainless steel

## Sizes and data

- ◆ Flow rates: up to 8000 m<sup>3</sup>/h standard flow
- ◆ Smallest size: 80 mm diameter inlet flange
- ◆ Available standard mesh sizes: from 2 mm down to 0.4 mm
- ◆ Standard design pressure: up to 16 bars (250 psig), higher upon special request



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