UltraPure, Low-Flow Cleaning

Alfa Laval TJ SanMidget SB UltraPure Rotary Spray Head

Application
The Toftejorg SanMidget SB UltraPure Rotary Spray Head is with its 3A approval, preliminary designed for the dairy industry with respect to self-cleaning, self-draining and inspectability. Its novel patent pending one-clip assembly offers easy installation, disassembly and inspection without compromising cleanability or drainability. Sizing/selection and installation drawings are available. Contact Alfa Laval for recommendations.

Working Principles
The flow of cleaning media causes the head of the SanMidget SB UltraPure to rotate, with fans of water laid out in a swirling pattern on the entire perimeter exposed to the spray pattern. This generates a vibrating impact in the 270° upward pattern and a dynamic cascading flow that covers internal surfaces of the tank, vessel or reactor. The SanMidget SB UltraPure is designed according to EHEDG and the design meets the requirements of 3-A standards.

TECHNICAL DATA
Lubricant: ................... Lubrication by rinse/cleaning fluid
Wetting radius: ................... Max. 3 m
Impact cleaning radius: ................... Max. effective 1.4 m
Pressure
Working pressure: ................... 1-3 bar
Recommended pressure: ................... 2 bar
Spray Pattern
360°  270° up

Standard Design
The SanMidget SB UltraPure can be supplied with 3.1 certificates for metallic parts and FDA conformity and USP Class IV on non-metallic parts.

Certificates
2.2 material certificate and EHEDG
As add-on: Q-doc, Q-doc incl. FAT & SAT and ATEX.

PHYSICAL DATA
Materials
Metallic parts: ............... AISI 316L (UNS S31603)
Non-metallic parts: ........... PEEK MD
Surface finish: ................... Ra < 0.8µm
Steam or gas jet: ............... Not supported - Contact Alfa Laval
Temperature
Max. working temperature: .... 95°C
Max. ambient temperature: .... 150°C
Weight: ................... 1" : 0.20 kg
Connections
- Weld-on: 1" ISO 2037, or DN25 DIN11850-R1, or 1" BPE US
- Clip-on: 1" BPE US
Clip-on options
Easy-on/off clip ø4.0 mm. (Clip needed for both clip-on and weld-on versions to assemble the machine)
For Clip-on models, the flow rate is increased by approx. 0.5 m³/h.

Note:
The inlet pressure has been taken immediately before the inlet to the machine. In order to achieve the performance indicated on the curves, the pressure drop in the supply lines between pump and machine must be taken into consideration and the water temperature during testing was approx. 20°C.

Dimensions (mm)

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