



# Increase Quality Assurance by Verifying Coverage

## Alfa Laval TJ Sanitary Rotacheck

### Application

Toftejorg Sanitary Rotacheck represents an important tool for increasing quality assurance in tank cleaning, since it provides an electronic means of validating the 360° impact coverage of the Toftejorg rotary jet head. The system is appropriate wherever rotary jet heads are employed in cleaning tanks and where the tank is pressurized during CIP. The signal generated by the system can be audible, visual or integrated into the customer's process control specification. Toftejorg Sanitary Rotacheck is particularly suited to industries where improved validation standards are required and the tanks are pressurized during CIP, e.g. the food, beverage, brewery and pharmaceutical industries.

### Working principle

The Toftejorg Sanitary Rotacheck sensor is precisely installed to detect the sweep and impact of fluid jets released as the rotary jet head performs its cleaning cycle. From the geared operation of the cleaning device, and by receiving the impact force from the jets, the sensor provides verification of sanitary operation. Any back pressure in the tanks is accounted for.



### TECHNICAL DATA

#### Pressure

Pressure: . . . . . 0.1 - 2 bar (1.5 - 29 psi)  
 Max. overload pressure: . . . . . 15 bar (217 psi)

#### Electrical Data

Max. repetition frequency: . . . . . For sensor function 2 Hz  
 Duration of electrical pulse . . . . . Min. 1.0 sec.  
 Relay connection, electric: . . . . . 2 m (6 ft) cable, Ø6 mm (0.24 inch), PVC, 2 x 0.75 mm<sup>2</sup>  
 Electromagnetic Noise: . . . . . Tested and approved according to EU EMC directive

#### Temperature

Operating temperature: . . . . . -20 to 85°C (-4° to 185°F)  
 Temperature on diaphragm: . . . . . Max. medium 140°C (284°F)

Mounting: . . . . . By clamping into the welding adapter or clamped directly on the Toftejorg SaniJet 20

Enclosure: . . . . . IP 67

#### Certificate

3.1 certificate

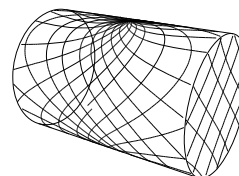


### PHYSICAL DATA:

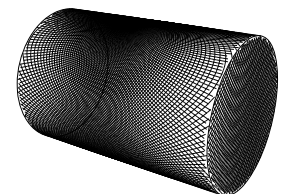
#### Materials

Sensor and diaphragm 1.4404 (316L).

#### Cleaning Pattern



First cycle



Full pattern

The above shows the cleaning pattern achieved by a Toftejorg rotary jet head. Toftejorg Sanitary Rotacheck enables the user to automatically confirm that this operation has taken place on individual tank cleaning cycles.

#### Standard Design

Welding adaptor for sanitary installation. 2 and 10 m (6 and 32 ft) cable for relay connection.

Rotacheck Sensor, ATEX approved, Category 1/2 for installation in zone 0/1 and 20/21.

Relay, ATEX approved, Category 2 for installation in zone 1/21.

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