

# SENSILEVEL - Series 3300 Float Operated Level Controls for internal mounting

## Description

The level controls in this series are not fitted with a float chamber, allowing them to be mounted on top of the tank, with the float on the inside. The process connection can be screwed 1" NPT (or even 3" as an option) or with a flange large enough to allow the float to pass through. Naturally, when the 1" NPT connection is used, the float must be applied to its stem inside the tank.

On the standard model the process connection is in carbon steel, with the float in AISI 316L, the internal elements in AISI 316 and the attraction sleeve in AISI 446.

All the models in this series can be fitted with one or more type 1, 2 or 3 switch mechanisms (up to 3 SPDT or 2 DPDT), or with a single type 4 or 5 mechanism.

For extremely low densities, special float can be provided.

## Use

This device should be considered a component used to control level, and should not be considered a safety device.

These products are designed and constructed in accordance with the directive 2014/68/EU and are not CE marked because they are not considered to be operating under pressure.

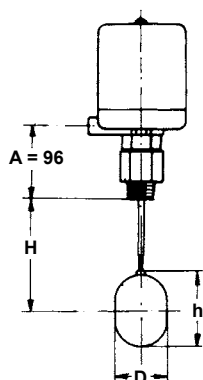
## Switch selection

To select the correct model according to the operating conditions and nature of the liquid to be controlled, please refer to the table below.

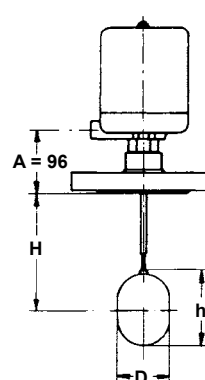
To select the switch mechanisms and switch housings, consult specification 7A.100.



## Specifications



Models 3301 A - 3301 B



Models 3305 A - 3305 B

| Model  | Float (mm) |     | Maximum pressure (1) (bar) |           | Minimum Specific Gravity of liquid (kg/dm³) (3) depending on insertion depth “H” (mm) |       |       |       |                        |       |       |       | Standard Connection |
|--------|------------|-----|----------------------------|-----------|---|-------|-------|-------|------------------------|-------|-------|-------|---------------------|
|        | D          | h   | 40°C                       | 400°C (2) | Type 1, 2, 3 mechanism  |       |       |       | Type 4 and 5 mechanism |       |       |       |                     |
|        |            |     |                            |           | H 300   | H 600 | H 900 | H 200 | H 300                  | H 600 | H 900 | H 200 |                     |
| 3301 A | 76         | 127 | 21                         | 12        | 0.70  | 0.75  | 0.82  | 0.90  | 0.80                   | 0.86  | 0.92  | 1.0   | 1" NPT              |
| 3301 B | 90         | 153 | 50                         | 33        | 0.63  | 0.66  | 0.70  | 0.74  | 0.69                   | 0.73  | 0.76  | 0.8   | 1" NPT              |
| 3305 A | 76         | 127 | 20                         | 6.5       | 0.70  | 0.75  | 0.82  | 0.90  | 0.80                   | 0.86  | 0.92  | 1.0   | 3" ANSI 150         |
| 3305 B | 90         | 153 | 50                         | 33        | 0.63  | 0.66  | 0.70  | 0.74  | 0.69                   | 0.73  | 0.76  | 0.8   | 4" ANSI 300         |

### Notes:

- (1) The pressure refers to the float and applies to models with a 1" NPT connection.
- (2) For process temperatures above the maximum permitted for each type of switch, a cooling extension is required that will cause an increase in height "A".
- (3) The specific gravity values refer to devices fitted with a single switch mechanism.

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### Options and special features

- System connections in AISI 316 stainless steel
- Special corrosion-resistant materials
- Attraction sleeve with anti-corrosion coating
- Interface control setting

### How to request or order

Each instrument is identified by an alphanumeric code describing the construction specifications in part only. This code is formed of three components, each of which defines part of the instrument: the first identifies the sensing unit model (chamber and displacer), the second identifies the type and quantity of switch mechanisms, and the third identifies the type of switch housing. It is therefore necessary to specify the material used for system connection, connection sizes, height H and any other special requests.

Example: Mod. 3305 A   -   210   -   2   -   S   \_\_\_\_\_

Options (interface, connections, AISI 316 connection, etc.)

Type of switch housing (see specification 7A.100)

Type of switch mechanisms (see specification 7A.100)

Sensing unit model (see page 1)