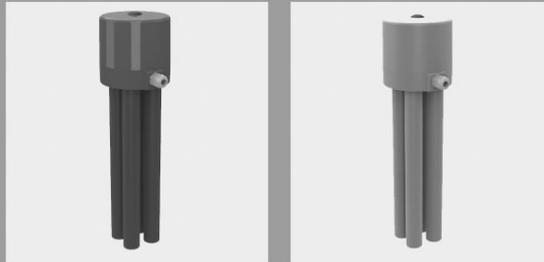


Level switch NIS



Advantage

- 1 to 4 switching points
- diaphragm pressure switch without medium contact
- pressure transmission by air
- low switching pressure
- corrosion resistant materials
- process automation, e.g. as an optical or acoustic signal

Utilisation

- for monitoring fluid levels in pressureless containers or open pits
- for signalling if the level exceeds or falls below a set filling level

Attention

- The NIS is not approved as an overflow prevention system as per §19 WHG (Federal Water Act)!
- Due to the air absorption properties of most fluids, aerate the immersion tubes at regular intervals to prevent any displacement of the switching points.

Function

- The level switch NIS contains 1 to 4 diaphragm pressure switches and the same number of immersion tubes connected to them.
- When the fluid level rises, the air in the immersion tubes is compressed. At a pressure increase of max. 10 mbar (level difference of 100 mm H₂O), the diaphragm activates a snap-action switch. If the level drops by a maximum of 50 mm, the air pressure in the immersion tube drops and a reset occurs.

Flow Media

- Neutral and aggressive fluids free of solid particles, provided that the valve components coming into contact with the fluids are resistant at the operating temperature in accordance with the ASV resistance guide.

Fluid Temperature

- PVC-U: 0 to +60°C
- PP: 0 to +90°C

Body

- PVC-U
- PP

Diaphragm Pressure Switch

- Diaphragm: EPDM
- Diaphragm: FPM
- Switching pressure: 100 mm WC = approx. 10 mbar
- Reset pressure: 50 mm WC = approx. 5 mbar
- Pressure load of switches: max. 0.5 bar
- Switching tolerance: ±10% of respective switching pressure, but min. ±7.5 mm WC = approx. 0.75 mbar

Electric Switching Capacity

- max. values at resistive load
- 1. Silver-plated contact version
- AgCdO contacts 6A / 250 V AC
- AgCdO contacts 2A / 24 V DC
- Minimum switching current for the proper function of the contacts: 100 mA.

Electrical Connection

- AMP flat plug 6.3 x 0.8 according to DIN 46244
 - cable screw connection PG 16
 - protection type IP 65
- Connection
- socket end for solvent welding DIN ISO (PVC-U), d 32
 - fusion socket end DIN ISO (PP), d 32

Immersion Tube

- Length: 1,5 m, 2 m, 3 m or 4 m
- Length: >4 m on request!

Mounting

- vertical

Installation

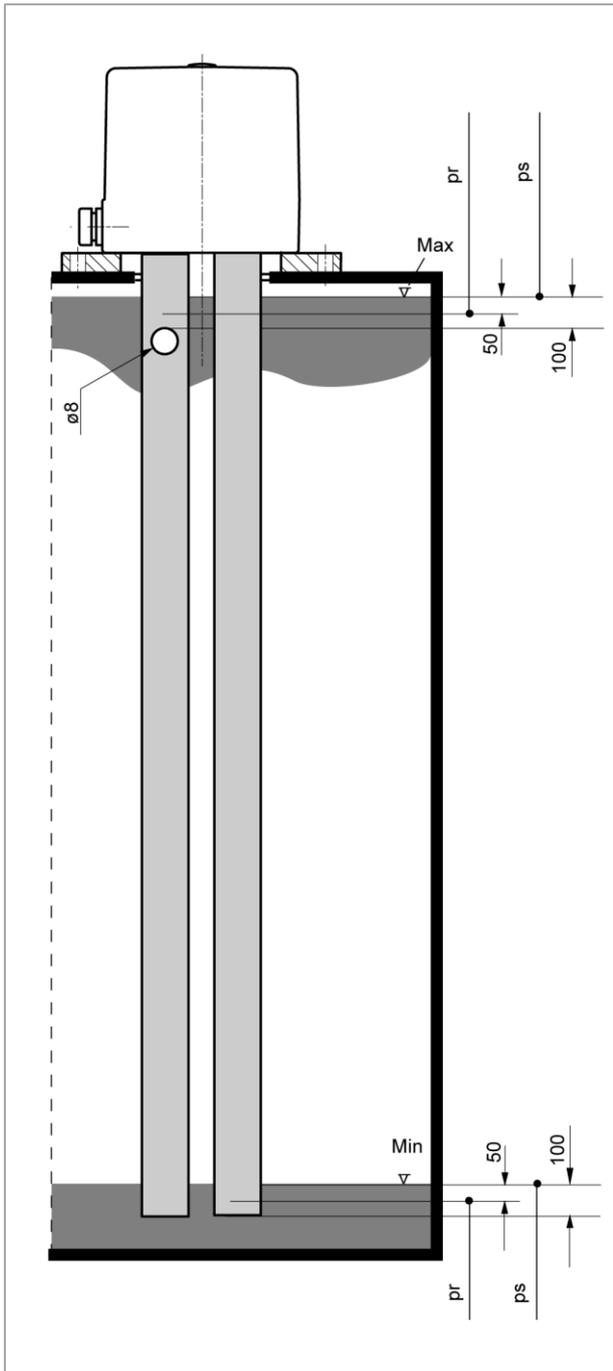
- The level switch can be installed onto the non-pressurised container by means of two female threads or optionally by a flange or fixation plate, both of which are available as accessory.
- The switching points can be determined by drilling an 8 mm hole into the tube which needs to be 100mm lower on the tube as the required switching level. These holes have to be drilled by the installing assembly worker.

Colour

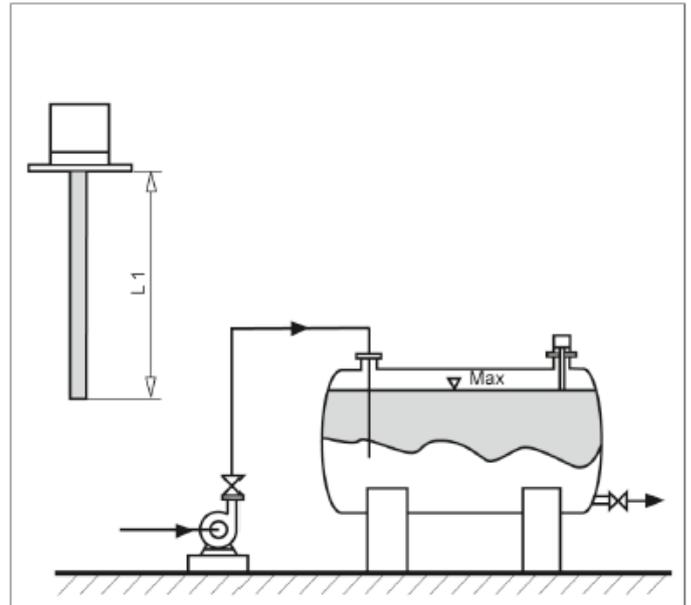
- body: PVC-U, grey, RAL 7011
- body: PP, grey, RAL 7032

Accessories

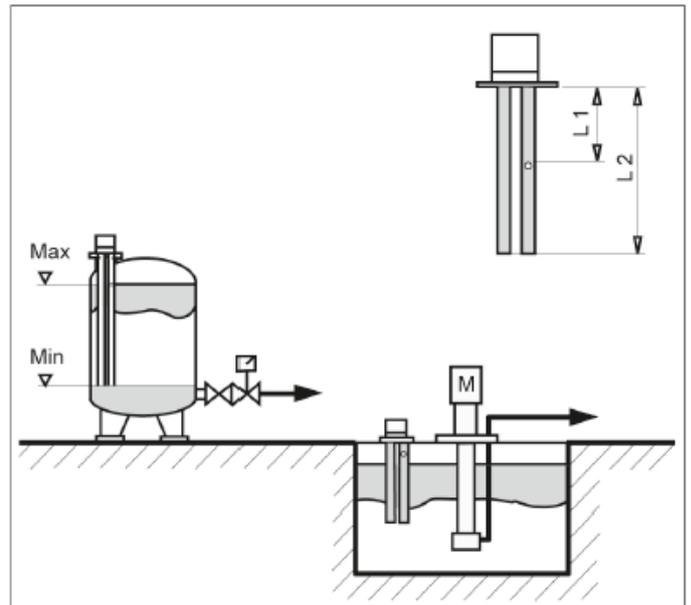
- Immersion tube
- Mounting plate
- Mounting-flange
- Diaphragm pressure switch



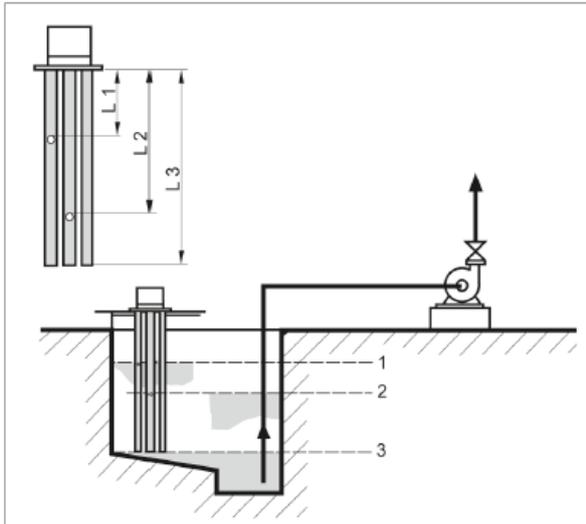
NIS 1



NIS 2



NIS 3



Operating note

Safe operation of the valve can only be ensured if it is properly installed, operated, serviced or repaired by qualified personnel according to its intended use while observing the accident prevention regulations, safety regulations, relevant standards, directives/technical regulations or codes of practice such as e.g.

DIN, DIN EN, DIN ISO and DVS*. *DVS = German Welding Society

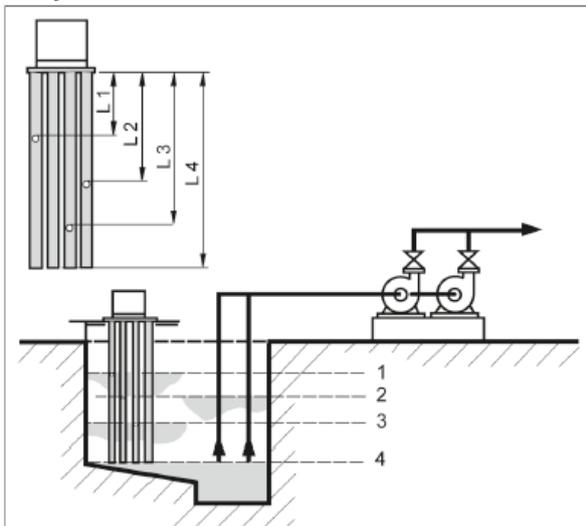
The intended use includes adhering to specified limit values for

pressure and temperature, as well as checking the resistance. This

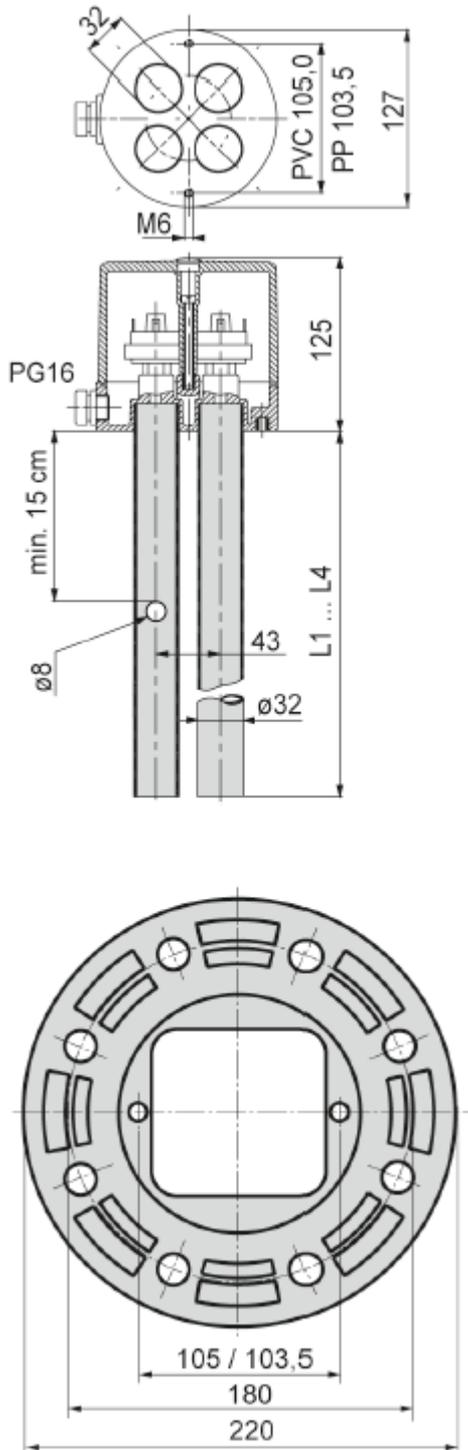
requires all components coming into contact with the medium to

be "resistant" in accordance with the ASV resistance guide.

NIS 4



Level measurement, Level switch NIS

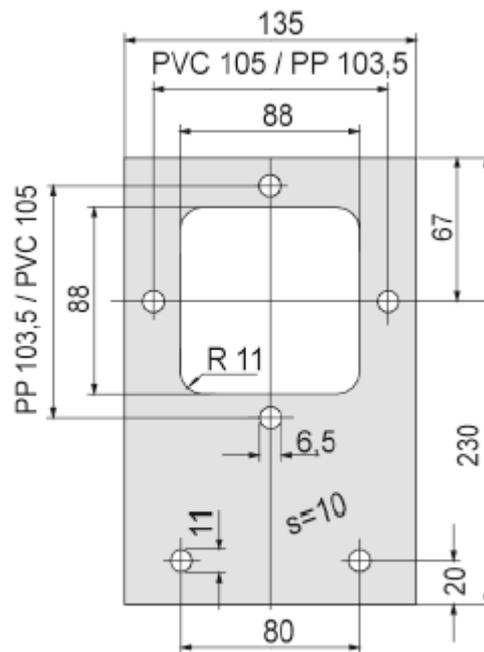


Ident PVC-U = 50994
Ident PP = 50997

dimensions

d(mm)	32	32	32	32
version	NIS 1	NIS 2	NIS 3	NIS 4
dimensions(mm)				
d	32	32	32	32
d1	32	32	32	32

NIS Mounting plate



Ident PVC-U = 62142
Ident PP = 62143