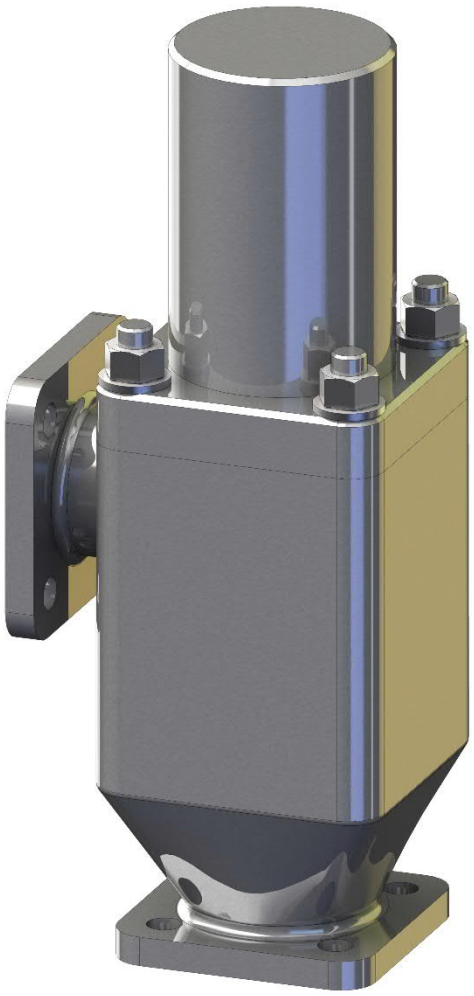


NM Float Level Switch

Use

The NM Float Level Switch has been designed to control minimum, maximum or other liquid levels in pressure and non-pressure tanks. Due to its compact and robust structure this float switch is to be used in the chemical, petrochemical, food, energy and other industries.

Description

The float moves inside an auxiliary chamber fixed directly to the outside of the tank or using a pipe in case of high liquid temperature, turbulence caused by a liquid stirrer or for the reason of space.

The float includes a permanent magnet used to open or close a contact. We recommend protecting the contact under capacitive or inductive load in the usual way.

Specification

Type of contact	changeover
Max. voltage	400 VDC
Max. switching current	1 A
Contact load	60 W
Operating medium temperature	-20 to +140°C
Max. ambient temperature	-20 to +120°C
Max. medium density	> 0.75 g/cm^3
Max. operating pressure	1.2 MPa
Ingress protection	IP 65
Explosion-proof design	Ex II ½ G Ex ia II C T4...T6

Types of NM Float Level Switches

NM 01Ex	Ordering No.: 561.01	terminal block in the head, Ex design
NM 02Ex	Ordering No.: 561.02	cable conduit, Ex design
NM 03NO	Ordering No.: 561.03	terminal block in the head, NO design
NM 04NO	Ordering No.: 561.04	cable conduit, NO design

Use in Explosive Atmospheres

The NM Float Level Switch may be installed in explosive atmospheres with flammable gases and vapors.

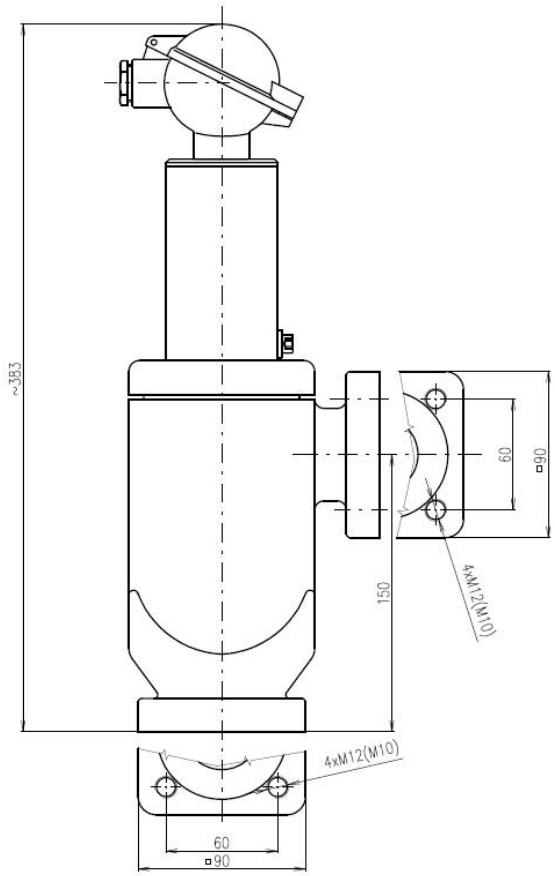
The float can be used in Zone 0. The head can be used in Zone 2. The float switch is a simple instrument according to ČSN EN 60079-0:2007 and ČSN EN 60079-11:2007 Standards. Connect the float switch to the ia intrinsically safe circuit only.

Maximum input parameters:

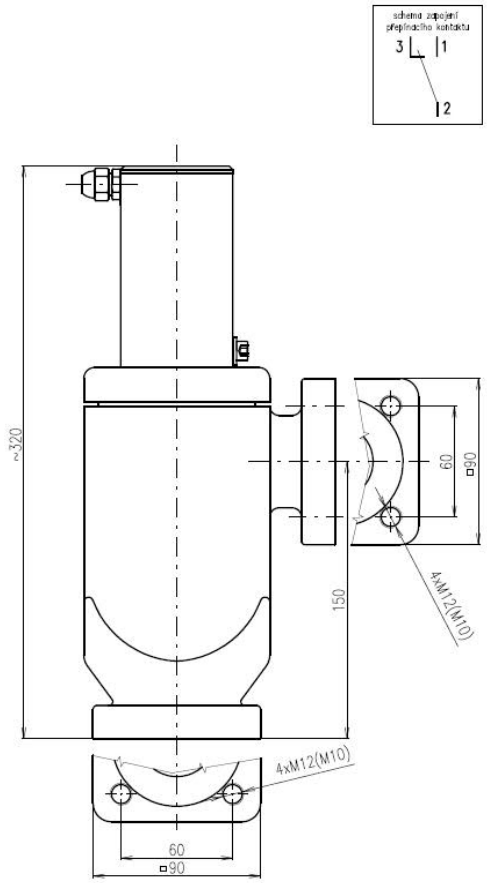
Ui = 30 V, Ii = 100 mA, Ci = 0

Fig. 1 NM Float Switch Drawing

TYPE: NM01Ex and NM03NO



TYPE: NM02Ex and NM04NO



Mounting

- Mount the NM float level switch in the vertical position only.
- Compare the tag plate specification and the properties of the liquid before mounting the level switch.
- Check the counterpart to be connected for geometric accuracy so that the float switch structure is not extremely stressed.
- Make sure that the shape, construction and materials of the float level switch are suitable for the liquid (especially max. pressure, max. temperature and corrosive effects),
- Mount the NM float level switch using bolts. Use fan washers due to the float switch wiring. If the float switch is fitted with a grounding pin, connect it to the ground.
- Tighten the bolts using the nominal torque for the operating pressure in the tank.
- Ensure the initial inspection of electrical equipment before commissioning.

Maintenance

No special maintenance is required during normal operation. Check that all the connections are tight. Clean the float if necessary. Follow all (fire) safety and environmental regulations.