

Nitrogen Atmosphere

Equipment serves for automatic maintenance of nitrogen atmosphere with the report of low level of material in barrels.
For low and high pressure machines

Equipment Allows

- control minimal component level in the barrel
- withdrawal of material from barrel manually (drawal of remain material)
- pressure compensation in container during pouring
- decrease nitrogen consumption
- there is no need to interfere in to the equipment of pressure containers
- protective nitrogen atmosphere is fed to barrel by overpressure at level of changes of atmospheric pressure (± 100 hPa » ± 100 mbar) by process, with does not need permanent consumption

Nitrogen Inlet To The Pressure Containers

is led over the controller with high flow, over the rapid bleeder valve and stop-cock of container cover. Safety valve is join to the inlet just in case of by-passing of increased pressure into atmosphere.



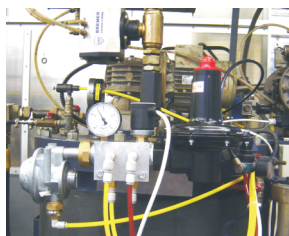
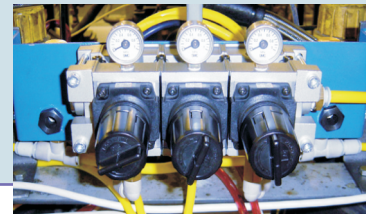
Feed Unit Of Nitrogen Atmosphere Into The Barrels

One of three controllers for nitrogen inlet leads the nitrogen with pressure 2 bar to the feed unit with extremely low pressure -- 21 mbar (~ 21 cm H₂O). Incoming overpressure 2 bar is reduced by special regulator.

Device consist of safety dosing device, what dose the flow when:

- ingoing overpressure decrease (nitrogen inlet will be dosed)
- outgoing overpressure decrease or maximal flow is exceeded (at breaking of outgoing pipeline)

Device has built-in safety valve outgoing pressure control



Nitrogen Inlet To Barrel With Limit Capacitance Detector

Nitrogen inlet is led by hose over the self-dosed connector, manual 2/2 valve and rotary screw connection to the pipe, with the shape of handle. There is a branch with sensor in the lower part. Sensor bar must be insert to barrel branch and the thread of branch must be set. It is necessary to hold the rotary handle with the inlet of nitrogen, connector and valve and by the help of handle to screw the inlet. The inlet hose for nitrogen is not disconnected. While the barrel is changed and before screwing off the inlet, the inlet of capacity sensor must be disconnect.

Control Of Filling The Components From The Barrels To The Pressure Containers

Swichboard contains of:

- main switch
- two three position switches with signal light
- acoustic signalling with two differer sound signal

Switches allow setting of three modes for each component individually:

MIDDLE position - filling switch off

RIGHT position - automatic filling of component switch

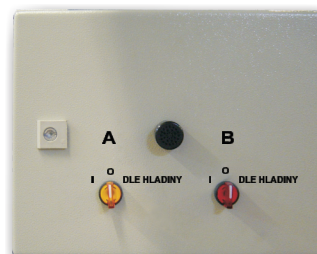
LEFT position - manual filling of the residue of component

Dosing starts when:

- there is sufficient pressure in the inlet of nitrogen
- there is not the maximal level in the container

Signaling:

- the level in barrel decreases to minimal valve, acoustic signalling will be activated
- when there is not sufficient pressure in the inlet of nitrogen



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