

# Solvent dispensing



## Application

Decentralised solution for dispensing solvents. Dispensing must always be carried out in a wellventilated environment, which ensures the containment of the pollutant generated and protects the user and which includes adequate safety measures in the event of incidents or spillages. It is recommended to put the dispensers in a fume cupboard for solvents, suitable for the intended use. The system consists of the following elements: ventilated safety cabinet for storing drums. System for pressurising drums using N<sub>2</sub>. Drum emptying alarm system. System for two drums under fume cupboard (1+1).

The system is based on an automatic pressurised dispenser with a nitrogen line and on the supply of solvent from a central point (1+1) that switches between supply drums when they run out.

## Solvent dispensing operation

**Installation:** the system will consist of 3 stainless steel tubes, two of which are for dispensing from each of the solvent drums to the dispensing guns located inside the fume cupboard, and the third to the inert gas pressurisation line.

**Dispensing gun:** the solvent dispensing gun is based on a valve that only opens when pressure is applied and the trigger of which is locked by an additional safety system that prevents it from accidentally opening.

The gun is made of stainless steel and the shut-off valve incorporates Kalrez elements to ensure optimum chemical compatibility with the most

common chemicals in the laboratory.

The flexible steel metal hose with a PTFE interior attached to the gun is 1.5 - 2 metres long (by default).

Flexible hoses with different lengths can be supplied upon request.

**Stoppers for solvent barrels:** Stoppers for solvent barrels are attached to the barrel by means of a 2" thread and include quick connect couplings for connecting the pressurisation line and for the solvent outlet.

These quick connect couplings incorporate self-

closing valves (in case of disconnection) made of KALREZ that prevent the depressurisation of the drum or the fume outlet when disconnected.

A manually operated valve is also included to depressurise the drum if necessary.

In addition, the hoses used for the connection between the stopper and the pipe system are made of flexible stainless steel mesh on the outside and PTFE inside.

## Technical characteristics

	Description
Ventilated safety cabinet External measurements: 1102 x 574 x 600 mm	90-minute type in accordance with UNE EN 14 470-1
Pipeline	Made of stainless steel (AISI 316). The connection to the solvent drums is carried out using Swagelok connections.
It includes a proportional release valve to avoid overpressure accidents.	
Dispensing gun	Made of AISI 316 stainless steel and equipped with a safety valve that will only remain open while pressure is being exerted. It has an additional safety system that prevents it from opening accidentally.
Stopper for solvent drum	Attaches to the drum with a 2" thread. Includes quick connect couplings to connect the pressurisation line and for the solvent outlet. Also includes a manually operated valve to depressurise the drum if necessary.

Please ask for information about centralised solvent dispensing installations.

## Details / Accessories



Drum + stopper



Dispensing gun



Guns + Support