

Overpressure valve YV-1

The overpressure valve manufactured by JTK Power Oy is intended for S1 class civil protection.

The product complies with Government Regulation 409/2011 the stated requirements.

The dirty air in the population shelter is removed through the overpressure valve. The overpressure valve provides protection in the civilian shelter existing people from pressure wave loads, and it can be also adjusts the shield overpressure.

Two overpressure valves are needed for each shelter per ventilation unit (IVL-1). They are placed in a barrier tent, to the dry toilets and the first aid station.



Operation and pressure resistance

The overpressure of the population shelter is adjusted by means of the flow resistance properties of the overpressure valve.

The valve closes when it is affected by an external excess pressure. Its opening pressure is approx. 35 Pa with an air flow of 1.5 dm³/s.

JTK Power's overpressure valve withstands a static overpressure of 300 kPa and a static under pressure of 20 kPa without being damaged. Its characteristic curve is constantly rising and the flow resistance at an air flow of 54 dm³/s is 85 Pa and at an air flow of 65 dm³/s 100 Pa.

Quality assurance

Eurofins Expert Services Oy has granted the following certificate to the equipment:

EUFI29-19001933-C

JTK Power tests every product in its own facilities. There is a quality control agreement VTT-A-00095-17 between Eurofins Expert Services Oy and JTK Power Oy. The agreement guarantees that the products are constantly under impartial monitoring.

Delivery

Two overpressure valves are delivered with the ventilation unit IVL-1. Overpressure valves can also be delivered separately.

Installation

The overpressure valve is installed in the Ø160 through-pipe LP-1. Fixing screws are included in the package.

Service

Functional inspection and maintenance of the overpressure valve must be done annually. The maintenance includes inspection and cleaning of the sealing surfaces of the valve, if necessary, and possible condensate removal through the lower part of the valve.

We reserve the right to make changes.