



Cotrol the Air in your System

LKUV-1 Air-Release Valve

PD 65093 GB3 2002-02

Application

LKUV-1 is a reliable, automatic air-release valve which is installed vertically on the top of a pipeline or container where the removal of air is required.

Example 1:

Bleeding of a pipe line where an air pocket has formed on account of the installation. In this case the valve is installed at the top of the pipe.

Example 2:

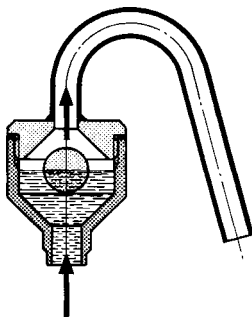
Bleeding of a pipe on the suction side of a pump. The suction side is bled automatically, before the pump starts, establishing a vacuum. Binding of air to the product will be prevented, and hence subsequent cavitation.

In this case the valve is installed in front of the pump, on top of the inlet pipe.

Working principle

LKUV-1 is a double-seated valve with a freely moving plastic ball. The ball, which is lighter than water, closes against the upper or lower seat, depending on the pressure conditions.

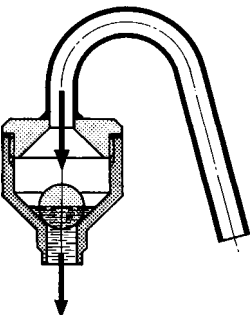
Situation 1



Pressure conditions
Pressure, air or product, or air/product.

Effect
The ball is lifted from the lower seat. The air can escape until the product lifts the ball against the upper seat, closing the valve.

Situation 2



Pressure condition
Vacuum, air or product, or air/product.

Effect
The ball moves against the lower seat, closing the valve, whether it contains air or product, or air/product.



Fig. 1. LKUV-1, Air-release valve.

Standard design

The valve body is in two parts and assembled by means of a thread. The lower valve body has a welding stub.

Materials

Steel parts: Stainless steel AISI 304.
Ball: Polypropylene.
Seal ring: Nitrile (NBR).
Finish: Semi bright.

Technical data

Max. product pressure: 1000 kPa (10 bar).
Max. temperature: 90° C
(because of the plastic ball).
Density of ball: 0.906 kg/dm³.

Note! Important for correct function:

- Product density higher than the ball density.
- Vertical installation.
- Pure products.

Ordering

Type LKUV-1, code number 9611-20-104-0.

Dimensions (mm)

A	110
OD ₁	17
ID ₁	12.3
t ₁	2.4
OD ₂	12
ID ₂	10
E	5
G	70
H	49
Weight (kg)	0.4

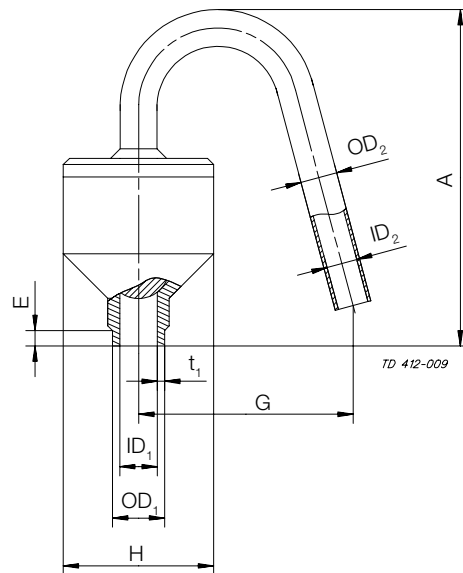


Fig.2.Dimensions

Parts List

1. Upper valve body.
2. Seal ring.
3. Valve body.
4. Ball.

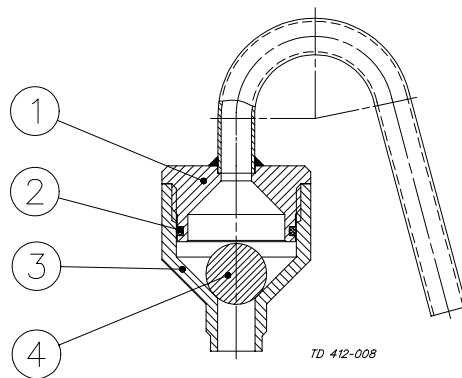


Fig.3.Parts List drawing.

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