



# Control the Air in your System

## Alfa Laval LKUV-2 Air-Relief Valve

### Concept

LKUV-2 is a reliable, automatic air-relief valve which is installed vertically on the top of a pipeline or container or before the inlet for a pump, 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-2 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.

### Standard design

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



### TECHNICAL DATA

#### Pressure

Max. product pressure: . . . . . 1000 kPa (10 bar)  
Max. temperature: . . . . . 90°C (because of the plastic ball)  
Density of ball: . . . . . 0.906 kg/dm<sup>3</sup>

### PHYSICAL DATA

#### Materials

Product wetted steel parts: . . . 1.4301 (304)  
Ball: Material . . . . . Polypropylene  
Product wetted seals: . . . . . EPDM  
Surface finish: . . . . . Bright

## Options

Alternative elastomers:

- NBR (Buna N)
- FPM (SFY)

**Note!** Important for correct function:

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

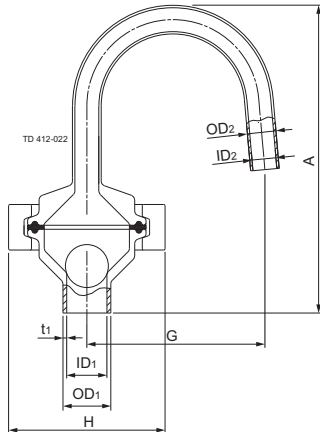


Fig. 1. Dimensions

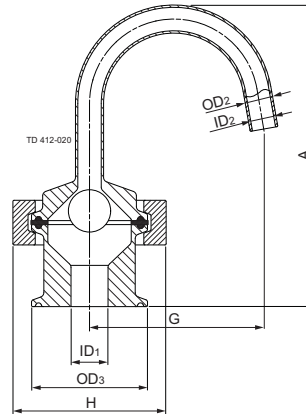
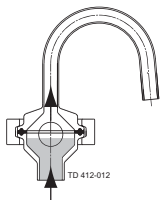


Fig. 2. Dimensions

## Dimensions

Dimension	(mm)	(inch)
A	128.7	5.07
G	74.5	2.93
H	58.5	2.57
ID1	15.8	0.66
ID2	10	0.39
OD1	20	0.79
OD2	12	0.47
OD3	49.5	1.95
t1	64.0	2.52
t1	1.6	0.06
Weight	(kg)	(lb)
	0.6	1.32

### Situation 1



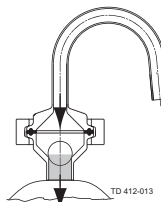
#### Pressure conditions

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 conditions

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.

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