

# Alfa Laval LKAP

## Single seat valves

### Introduction

The Alfa Laval LKAP is a pneumatic single seat valve with a single contact surface between the plug and the seat to minimize the risk of contamination. Compact and straightforward, it is designed for use as a remote-controlled shut-off valve for small flows and for dosing applications.

### Application

The LKAP is an air-operated shut-off valve widely used for controlling small flow rates and for dosing in hygienic applications across the dairy, food, beverage, chemical and other many industries.

### Benefits

- Quality pneumatic shut-off valve
- Handles small product flows and dosing
- Straightforward, compact design
- Easy to maintain due to few moving parts
- Easy to clean

### Standard design

The LKAP consists of an actuator with air cylinder and piston, a double lip seal for the stem, a stem unit with replaceable O-ring in the plug, and valve body with weld end connections. It has visual indication of the valve position and is available with two ports (LKAP-V version) or three ports (LKAP-T version). For remote indication of the valve position, an optional reed switch unit position transmitter is available. The valve can be ordered as normally open (NO) or normally closed (NC). The NC version is standard. The LKAP Air-Operated Valve is available in DN/OD 25 mm (1").

### Working principle

The Alfa Laval LKAP is normally closed (NC) valve with a spring return that is operated from a remote location by means of compressed air.



## TECHNICAL DATA

### Temperature

|                   |               |
|-------------------|---------------|
| Max. temperature: | 140 °C (EPDM) |
| Min. temperature: | 10 °C         |

### Pressure

Kv value = 9 (9 m<sup>3</sup>/h for  $\Delta p = 1$  bar with the valve open):

|                                            |                   |
|--------------------------------------------|-------------------|
| Max. product pressure under the plug (NC): | 600 kPa (6 bar)   |
| Min. air pressure:                         | 500 kPa (5 bar)   |
| Max. prod. pressure:                       | 1000 kPa (10 bar) |

### ATEX

|                |                       |
|----------------|-----------------------|
| Classification | II 2 G D <sup>1</sup> |
|----------------|-----------------------|

<sup>1</sup> This equipment is outside the scope of the directive 2014/34/EU and must not carry a separate CE marking according to the directive as the equipment has no own ignition source.

## PHYSICAL DATA

### Materials

|                             |                     |
|-----------------------------|---------------------|
| Product wetted steel parts: | 1.4404 (316L)       |
| Other steel parts:          | 1.4301 (304)        |
| Surface finish inside:      | $Ra \leq 1.6 \mu m$ |
| Other seals:                | NBR                 |

## Options

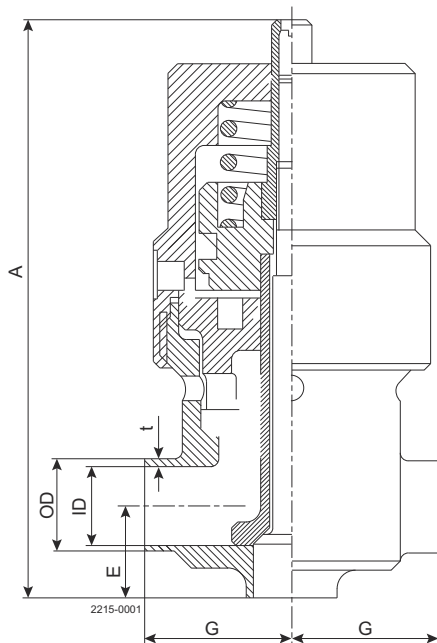
- Male parts or clamp liners according to required standard.
- Position indication of open and closed positions.
- Bracket for standard M12 sensors. Please see chapter 3.7 Automation for bracket code number.
- Product wetted seals of FPM or EPDM.



### Note!

For further details, see also IM 70805.  
Semi-Maintainable actuator comes with 5 year warranty.

## Dimensions (mm)



| Size        | 25 mm |
|-------------|-------|
| G           | 40    |
| E           | 24    |
| A           | 170   |
| OD          | 25    |
| ID          | 22    |
| t           | 1.5   |
| Weight (kg) | 2.5   |

## Connections

Compressed air: R1/8" (BSP), internal thread.

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