

Small & Reliable

Alfa Laval LKAP Air-Operated Valve

Concept

The LKAP pneumatic valve is a remote-controlled shut-off valve, widely used for small flows and for dosing applications in food, chemical and other industries.

Working principle

The valve is operated by means of compressed air and has spring return. It has few and simple moving parts which results in a very reliable valve.

Standard Design

LKAP consists of actuator with air cylinder and piston, double lipseal for stem, stem unit with replaceable O-ring in the plug, and valve body with welding connections. It has visual indication of the valve position and is available with 2 (LKAP-V) or 3 ports (LKAP-T). A reed switch unit for indication of open and closed positions is available. The valve can be ordered as normally open (NO) or normally closed (NC) versions. NC is standard.

The LKAP valve come in DN/OD 25 mm.

The LKAP valve come in DN/OD 1".



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TECHNICAL DATA

Temperature

Max. temperature:130 °C (EPDM)

Min. temperature:10 °C

Pressure

Kv value = 9 (9 m³/h for Δp = 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)

PHYSICAL DATA

Materials

Product wetted steel parts: 1.4404 (316L)

Other steel parts: 1.4301 (304)

Surface finish inside Ra ≤ 1.6 μm

Other seals: NBR

Options

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

Note!

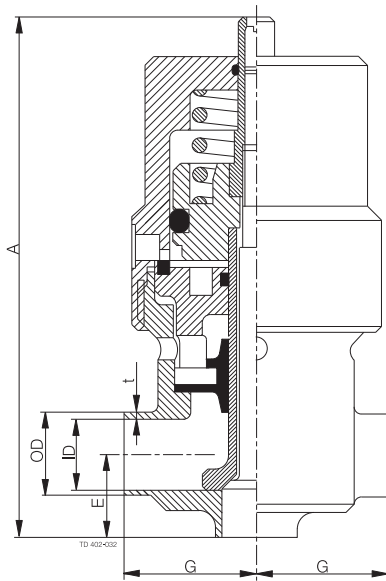
For further details, see also IM 70805.

The actuator comes with a 5 years warranty.

Dimensions (mm)

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

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**Connections**

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

LKAP Air-Operated Valve

Single Seat Valves

Product code: 5246

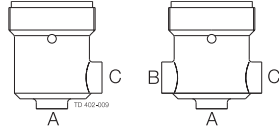
Material: 1.4404 (316L)
 Connection: ISO Welding ends
 Seals: See below
 Actuation: Pneumatic

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Item No.	PPL EUR	Size (mm)	Seals	Dimension			LKAP-V (normally closed)
				A (mm)	E (mm)	G (mm)	
9611409543 9611409541	1247 1247	25 25	EPDM Nitrile (NBR).	170 170	24 24	40 40	
LKAP-T (normally closed)							
9611409544 9611409542	1363 1363	25 25	EPDM Nitrile (NBR).	170 170	24 24	40 40	
LKAP-V (normally open)							
9611409547 9612650134	1247 1385	25 25	EPDM FPM	180 180	24 24	40 40	

Options - please see later this chapter.

The air-operated valves not mentioned in the code number sheets, should be ordered as below:
Product code: for indication 5246, 5415

Item No.	PPL EUR	Size		Option		Product code:
		mm	inch			
9611409548	*	25	1"	LKAP for fitting of male parts.		5246
9611409549	*	25	1"	LKAP for replacement of seals.		5246
Male part						
	66	25	1"	Male part standards (included in the price) SMS, ISO/IDF, DS, BS, DIN, ISO clamp. Fitting of male parts included.	 <p>Please state which type of male part you want and to which outlet it should be connected.</p>	5246
Seals						
	129			Replacement to seals of Fluorinated rubber (FPM).		5246
Indication						
9611402551	212			Double switch unit, Reed type.		5415

* = On request

When using the above numbers - please specify: The male parts required.

NOTE! Other options on request.