

## Open or Close the Tank - it is Your Choice

### LKAB Tank Outlet Valve

#### Application

Tank outlet valve LKAB is an air-operated on/off valve designed for direct connection of the outlet flange to a tank.

#### Working principle

The valve is opened by compressed air and closed by a spring. To avoid non-scheduled opening of the valve, the valve has been designed so that the valve plug opens into the tank, meaning that it will never open unintentionally.

#### Standard design

LKAB consists of a valve body and an air actuator which are clamped together. The valve body also consists of a tank flange with screwed connections. The stem seal is a double-acting lip seal, and for the purpose of indicating a possible leak in the valve, it is provided with drain holes.

An exchangeable O-ring is placed in the valve plug. The valve has a welding end as standard.

#### Materials

Product wetted steel parts: ..... Acid resistant steel 1.4404 (316L).

Other steel parts: ..... Stainless steel 1.4301 (304).

Product wetted seals: ..... Nitrile (NBR), (standard).

Other seals: ..... Nitrile (NBR).

Finish: ..... Semi-bright.

#### Options

- A) Male parts or clamp liners in accordance with required standard.
- B) Two micro switches.
- C) O-ring seal disc.
- D) Seals of EPDM rubber or Fluorinated rubber (FPM).

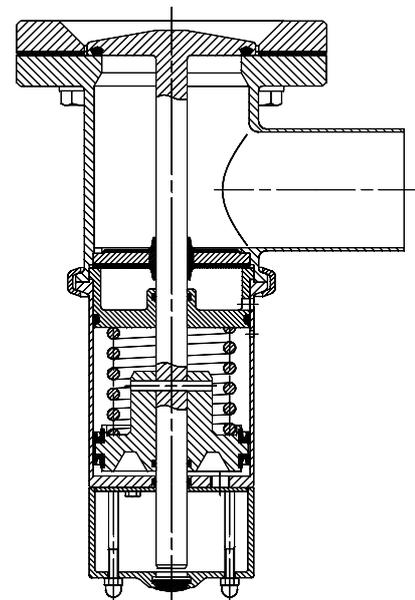
#### Ordering

Please state the following when ordering:

- Size.
- Connection if not welded end.
- Options.



Fig.1. LKAB, tank outlet valve.



TD 401-025

Fig. 2. Principle.

Technical data

Size	51 mm	63.5 mm	76.1 mm	101.6 mm
Valve capacity Kv (m <sup>3</sup> /h)	51	87	115	145
Min. air pressure at 5 bar product pressure in tank (bar)	2.6	5	5	6
Max. product pressure in valve body when valve is closed (bar)	2.6	1.1	1.1	0.5
Max. test pressure (bar)	10	10	10	10
Max. temperature (°C)	90	90	90	90

Dimensions (mm)

Size	51 mm	63.5 mm	76.1 mm	101.6 mm
A	245	270	270	305
A <sub>1</sub> *	325	350	350	385
d	15	15	15	18
OD	51	63.5	76	101.6
ID	48.5	60.5	72	97.6
t	1.25	1.5	2	2
E	50	70	65	85
G	100	120	120	150
J	150	160	160	210
K	120	130	130	170
L	14	16	16	16
S	19	19	19	28
Weight (kg)	6.8	7.9	7.8	9.0

\* Min. installation measure to allow for removal of the valve.

Connections

Compressed air: R 1/8" (BSP).

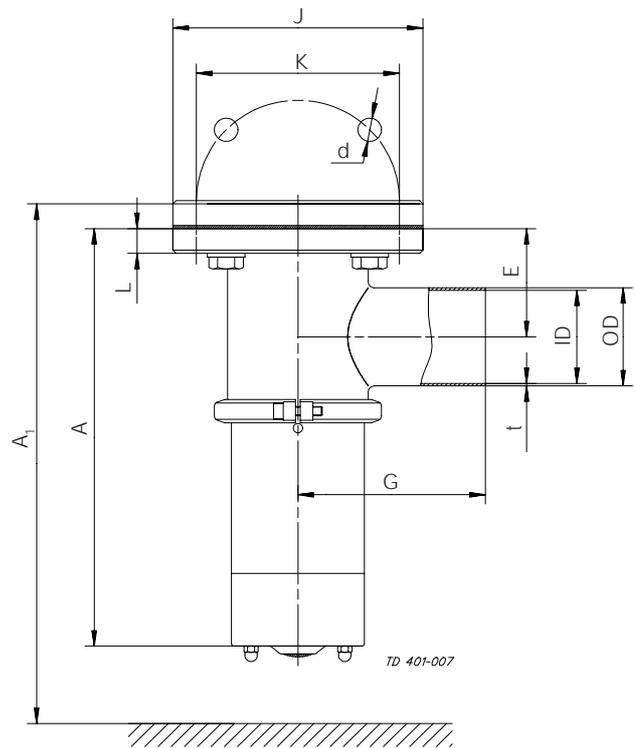


Fig. 3. Dimensions.

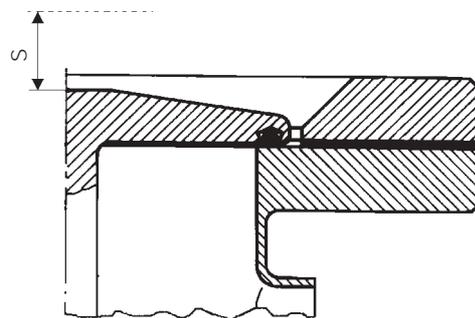


Fig. 4. Max. stroke S of valve plug.