



**LIAG**®  
USA

**LAUFER**  
Valve Technology Inc.

**Flush Bottom Tank Outlet Valve**

# LIAG® Flush Bottom Tank Outlet Valves

## The clean solution

LIAG® Flush Bottom Tank Outlet Valves have been designed according to hygienic design guidelines to meet the high demands of process engineering applications.

LIAG® Flush Bottom Tank Outlet Valves are very important elements in vessel construction. These valves are installed at the lowest point of a vessel. They are particularly suited for products and fluids containing solid particles on account of a totally clear passage without pressure loss, as well as easy and thorough cleaning in place (CIP). LIAG® tank outlet valves are designed with a flange for a direct welding into the vessels bottom.



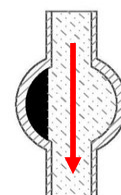
## Features

- No dead pockets
- CIP/SIP capability (hygienic design)
- Product-friendly drainage due to totally clear passage without pressure loss
- No product remainders or sticking of solid particles
- Minimum number of components and wearing parts (same as Arc Valves)
- Can be completely dismantled even when welded into the vessels bottom for easy servicing
- 3-A 51-01 and FDA compliance
- CRN



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51-01

Flow Rate of LIAG® Flush Bottom Tank Outlet Valve		
1"	264.17 gpm	60 m³/h
1.5"	616.40 gpm	140 m³/h
2"	1496.97 gpm	340 m³/h
2.5"	1805.18 gpm	410 m³/h
3"	1981.29 gpm	450 m³/h
4"	4358.84 gpm	990 m³/h



# Hygienic – Modular – Efficient

## Nominal sizes

Inch: 1" / 1.5" / 2" / 2.5" / 3" / 4"

## Materials

Inox parts in contact

with product:

AISI 316L (1.4404 / 1.4435)

Other inox parts:

AISI 304 (1.4301)

O-ring seals:

EPDM, FKM (Viton®), FEP,  
other grades upon request

Shutter:

PTFE

## Surfaces

In contact with product:

$Ra \leq 32\mu m$  ( $Ra \leq 0.8\mu m$ )

## Temperature

Operating temperature:

230°F (110°C)

Short-term:

284°F (140°C)

- optionally up to 392°F (200°C)

## Operating pressure

Pressure behind arc:

145 psi (10 bar)

- optionally up to 290.1 psi (20 bar)

Pressure against arc:

43.5 psi (3 bar)

## Versions

2-way

## Operation

Manual:

with handle (0° - 90°)

Pneumatic:

- Vertical pneumatic actuator (AISI 304)
- Horizontal pneumatic actuator (aluminium housing)

## Valve connection

Clamp connection:

Tri-Clamp

Welded ends:

Inch

## Installation

With flange for welding into the vessels bottom

## Further options / Certificates

- Shutter material; Tecapeek®, PTFE+15% Peek
- Delivery and adaptation to actuators of different manufacture per Namur NE14 and DIN EN ISO5211
- 3-A 51-01 and FDA compliance
- CRN

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