

Alfa Laval tank covers circular

Tank covers

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Circular cover Type HLSD-2

Introduction

The Alfa Laval Access Tank Cover – Circular Cover Type HLSD-2 is an outward-opening manway cover that provides a secure fit for openings on top of pressurized tanks and containers. It is approved for use on pressure vessels according to PED 2014/68/EU.

The HLSD-2 offers a quick, easy and convenient means of entry and egress to tank interiors. It also provides a closable means of access to the interior of the vessel, situated above or below the liquid level.

Application

The Access Tank Cover – Circular Cover Type HLSD-2 is designed for use in hygienic applications across the dairy, food, beverage, biotechnology, pharmaceutical and many other industries.

Benefits

- Versatility to cover all tank needs
- Hygienic design
- Easy to handle

Standard design

The Access Tank Cover – Circular Cover Type HLSD-2 consists of stainless steel lid, frame, hinge, swing bolt and seals. It is designed for installation in pressure vessels according to AD



2000-Merkblätt. The cover is not pressure tested and must be tested as a part of the pressure vessel. The HLSD-2 meets the PED 2014/68/EU, Fluid Group 1 and 2 and hazard category IV.

Working principle

The Alfa Laval Access Tank Cover – Circular Cover Type HLSD-2 lid is secured in the closed position by swing bolts. Together with the seal in the cover, the swing bolts ensure complete tightness. Attached to the frame by a rigid hinge, the cover secures the exact location of the cover in the closed position and is designed to stop the cover at an angle of 68-86° beyond the vertical position when opening.

Certificates

- 3.1 Certificate (EN10204)
- EC unit verification module G according to PED 2014/68/EU
- FDA declaration §177.2600 for seal material
- ASME BPE Certificate (option)

Technical data

Sizes

7.87 in, 11.81 in, 15.75 in, 17.72 in, 19.68 in and 23.62 in.

| Pressure | | |
|-----------------------------------|------------------------------|--|
| Max. allowable pressure: | According to selection table | |
| Min. allowable negative pressure: | Full vacuum | |
| Max. test pressure Ptest: | According to selection table | |

Physical data

| Materials | |
|-----------------------------|---|
| Product wetted steel parts: | 1.4404 (AISI 316L) |
| Other steel parts: | 1.4301 (AISI 304) |
| Seal: | EPDM, FPM, Silicone, FEP covered silicone, FEP covered FPM, PFA covered |
| | silicone |

| Standard surface finish | Semi bright |
|-------------------------|-------------|
| Outside: | Ra 64 µin |
| Inside: | Ra 32 µin |

Temperature

| Temperature range: | 14 °F to 482 °F |
|--------------------|-----------------|
| | |

Options

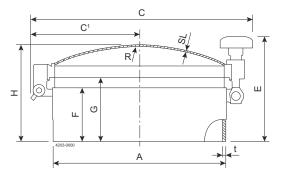
- Spring to assist opening.
- Arrangement for securing cover in open and closed position.
- Bracket for indication unit in size ø12 or ø18. Please specify size at order.
- Handle in stainless steel.
- Guide for cover for vertical installation. Please define positioning of the hinge (right or left hand side).
- Sight glass DIN 28120.
- Sight glass DIN 11851.

- Safety grid.
- Special surface finish.
- Frame height G = 11.82 inch.
- Seal of Q (silicone), FPM, FEP covered silicone, PFA covered silicone, FEP covered FPM.
- Conical frame, different frame thickness and frame height available on request.

Selection table

| Size | А | Num-ber of | Id (°C / °F) | | | Max. test pressure | | Cover radius | | |
|-------|-------|------------|--------------|--------|--------|--------------------|--------|--------------|------|-------|
| inch | inch | -bolts | 122 °F | 212 °F | 302 °F | 392 °F | 482 °F | -Ptest | (SL) | |
| | | | PSI | PSI | PSI | PSI | PSI | PSI | inch | inch |
| 7.87 | 8.19 | 4 | 213.2 | 188.5 | 171.1 | 156.6 | 145 | 306.0 | 0.31 | 19.68 |
| 11 01 | 10.10 | 4 | 110.2 | 97.2 | 92.8 | 88.5 | 87 | 195.8 | 0.2 | 19.68 |
| 11.81 | 12.13 | 6 | 136.3 | 121.8 | 108.8 | 100.1 | 92.8 | 195.8 | 0.24 | 19.68 |
| | | 4 | 63.8 | 55.1 | 53.7 | 50.8 | 49.3 | 146.5 | 0.16 | 19.68 |
| 15.75 | 16.06 | 6 | 95.7 | 84.1 | 79.8 | 76.9 | 75.4 | 207.4 | 0.2 | 19.68 |
| | | 8 | 126.2 | 111.7 | 107.3 | 103 | 98.6 | 207.4 | 0.24 | 19.68 |
| | | 6 | 75.4 | 66.7 | 63.8 | 60.9 | 59.5 | 174.0 | 0.16 | 19.68 |
| 17.72 | 18.03 | 8 | 101.5 | 88.5 | 85.6 | 82.7 | 79.8 | 181.3 | 0.2 | 19.68 |
| | | 10 | 126.2 | 111.7 | 103 | 101.5 | 98.6 | 210.3 | 0.24 | 19.68 |
| | | 6 | 60.9 | 53.7 | 52.2 | 49.3 | 47.9 | 142.1 | 0.16 | 19.68 |
| 19.68 | 20.00 | 8 | 82.7 | 72.5 | 69.6 | 66.7 | 65.3 | 155.2 | 0.16 | 19.68 |
| | | 10 | 108.8 | 100.1 | 95.7 | 91.4 | 89.9 | 174.0 | 0.2 | 19.68 |

| Size | А | Num-ber of bolts | Max. all Td (°C / | • | ssure PS (ba | oar) at design temperature Max. test pressure Cover thickness Cov | | Cover radius | | |
|-------|-------|---------------------|----------------------|--------|--------------|---|--------|--------------|------|-------|
| inch | inch | Doits | 122 °F | 212 °F | 302 °F | 392 °F | 482 °F | Ptest | (SL) | |
| | | 6 | 43.5 | 37.7 | 36.3 | 34.8 | 33.4 | 100.1 | 0.16 | 19.68 |
| | | 8 | 58.0 | 50.8 | 47.9 | 46.4 | 45 | 111.7 | 0.16 | 19.68 |
| 23.62 | 23.94 | 10 | 72.5 | 63.8 | 60.9 | 58 | 56.6 | 111.7 | 0.16 | 19.68 |
| | | 12 | 87.0 | 76.9 | 72.5 | 71.1 | 68.2 | 127.6 | 0.2 | 19.68 |
| | | 14 | 101.5 | 88.5 | 85.6 | 82.7 | 78.3 | 145.0 | 0.2 | 19.68 |



| Size | 7.87 | 11.81 | 15.75 | 17.72 | 19.68 | 23.62 | |
|----------------|------------------------|-------------------------|-------------|-------|-------|-------|--|
| A | 8.19 | 12.13 | 16.06 | 18.03 | 20 | 23.94 | |
| C ₁ | 6.06 | 8.03 | 10 | 10.98 | 12.17 | 14.13 | |
| С | 12.6 | 16.54 | 20.47 | 22.44 | 24.61 | 28.54 | |
| E | 9.33 | 9.33 | 9.72 | 9.72 | 9.72 | 9.72 | |
| = | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | |
| G | 5.91 | 5.91 | 5.91 | 5.91 | 5.91 | 5.91 | |
| Н | 7.28 | 7.8 | 8.9 | 9.45 | 9.88 | 11.22 | |
| R | 19.68 | 19.68 | 19.68 | 19.68 | 19.68 | 19.68 | |
| Dimension on | ly for guidance, measu | red before grinding and | d polishing | | | | |
| t ¹ | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | |

¹ Dimension only for guidance, measured before grinding and polishing

O-ring gaskets (HLSD-2)

| Silicone | |
|-------------------------|--------------------------------------|
| Colour: | transparent |
| Temperature: | -58 °F to +390 °F FDA / USP Class VI |
| | |
| EPDM | |
| Colour: | black |
| Temperature: | -58 °F to +302 °F FDA / USP Class VI |
| | |
| Viton (FPM) | |
| Colour: | green |
| Temperature: | -4 °F to +392 °F FDA |
| FEP covered Silicone | |
| Colour: | shell: transparent, core: red |
| Temperature: | -76 °F to +392 °F FDA / USP Class VI |
| FD several Viter (FDM) | |
| FEP covered Viton (FPM) | |
| Colour: | shell: transparent, core: black |
| Temperature: | -4 °F to +392 °F FDA / USP Class VI |
| | |

| PFA covered Silicone | | | |
|----------------------|--------------------------------------|--|--|
| Colour: | shell: transparent, core: red | | |
| Temperature: | -76 °F to +446 °F FDA / USP Class VI | | |

Circular cover Type LKDC



Introduction

The Alfa Laval Access Tank Cover - Circular Cover Type LKDC is a high-quality opening that provides quick, easy and convenient entry and egress to tank interiors. Available with a variety of surface finishes and seal materials, the Circular Cover Type LKDC securely fit the openings of low- or nonpressurized tanks.

Application

The Access Tank Cover - Circular Cover Type LKDC stainless steel manway cover is used on the top of tanks or containers across the dairy, food, beverage, and biopharm industries, where a hygienic closeable mean of access to the interior of the tank is required.

Benefits

- Covering all tank needs
- Hygienic design
- Available as a 3-A approved version
- Can be supplied with safety grid

Technical data

Working pressure LKDC-306, 404, 454, 518, 620: No pressure LKDC-202: 5.8 PSI

Physical data

| Materials | |
|----------------|------------------------------------|
| Lid and frame: | 1.4301 (304) or 1.4404 (316L) |
| Plastic parts: | Nylon |
| Seals: | EPDM or NBR or FPM or Q (silicone) |

| Finish | |
|-------------------------------|------------------------------------|
| Surface finish: | Acid Pickled |
| Product wetted surfaces: | Ra 32 µin (Excluding welding zone) |
| Other frame and lid surfaces: | Ra 32 µin (Excluding welding zone) |

Standard design

To enable visual inspection and/or physical entry into the tank, the tank cover swings outwards. The LKDC Tank covers needs to be positioned above the liquid level.

The Alfa Laval Access Tank Cover - Circular Cover Type LKDC is available in AISI 304 or AISI 316L stainless steel with EPDM, NBR, FPM or Q (silicone) seal materials. Surface finishes include electropolished, brushed and acid pickled finishes and vary from Ra 0.4 to Ra 0.8 to meet the exceptionally high quality requirements of hygienic processes. In addition, a 3.1 Material Certification in accordance with EN 10204 is supplied. For more information, please refer to documentation and the Tank cover selection guide.

Working principle

The Alfa Laval Access Tank Cover - Circular Cover Type LKDC is supplied with a unique replaceable, self-sealing double lip seal to prevent fluids from spraying out, for instance, during CIP cleaning and similar processes or during travel on mobile tanks.

The seals are produced in compliance with 3-A recommendations. Open the cover by loosening the handle.

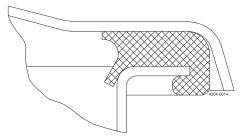


Figure 1. Double lip seal

Certificates

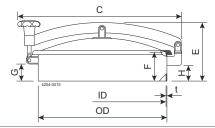
3.1 certificate



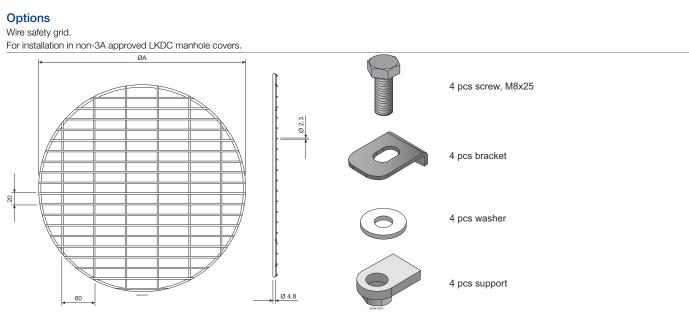
Authorized to carry $/\hat{\mathbf{3}}$ the 3A symbol

| 3A finish | |
|-------------------------------|---|
| 3A surface finish: | Acid pickled |
| Product wetted surfaces: | Ra 16 µin |
| Other frame and lid surfaces: | Ra 16 µin (Excluding external welding zone) |

| Temperature | |
|---|-----------------|
| Min. temperature: | - 4 °F |
| Max. temperature (NBR): | -22 °F / 230 °F |
| Max. temperature (Q): | -58 °F / 392 °F |
| Max. temperature (EPDM, not for oil and fat): | -15 °F / 194 °F |
| Max. temperature (FPM flourinated rubber): | 14 °F / 482 °F |



| Size/OD | 202 | 306 | 404 | 454 | 454 | 518 | 518 | 620 | 620 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ID | 7.80 | 11.89 | 15.75 | 17.64 | 17.64 | 20.16 | 20.16 | 24.17 | 24.17 |
| F | 3.35 | 3.94 | 3.94 | 3.94 | 7.87 | 3.94 | 7.87 | 3.94 | 7.87 |
| t | 0.08 | 0.08 | 0.08 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| С | 13.94 | 17.99 | 21.85 | 23.98 | 23.98 | 26.57 | 26.57 | 30.63 | 30.63 |
| G | 1.97 | 2.52 | 2.52 | 2.56 | 6.50 | 2.08 | 6.38 | 2.44 | 6.38 |
| Н | 1.69 | 2.52 | 2.32 | 2.36 | 6.30 | 2.28 | 6.22 | 2.32 | 6.26 |
| E | 6.14 | 5.75 | 7.01 | 7.91 | 11.85 | 7.76 | 10.12 | 7.99 | 11.93 |
| Cover thickness | 0.06 | 0.06 | 0.08 | 0.08 | 0.08 | 0.12 | 0.12 | 0.12 | 0.12 |
| Weight (lbs) | 7.5 | 13.9 | 18.3 | 26.9 | 34.8 | 31.7 | 39.0 | 41.4 | 53.6 |
| | | | | | | | | | |

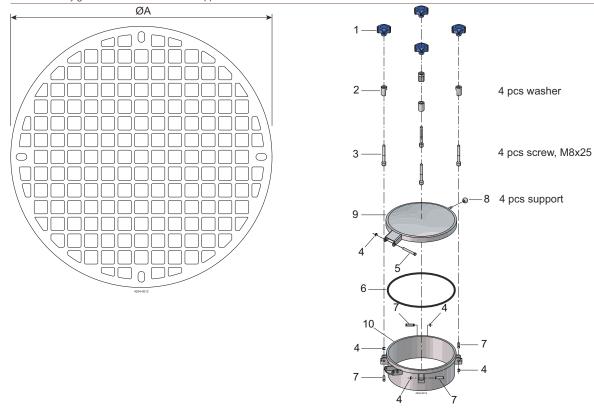


Dimensions:

| LKDC | ØA | | |
|------|-----|-------|--|
| LKDC | mm | inch | |
| 202 | 190 | 7.48 | |
| 306 | 298 | 11.73 | |
| 404 | 390 | 15.35 | |
| 454 | 445 | 17.52 | |
| 518 | 498 | 19.61 | |
| 620 | 598 | 23.54 | |

Material: 316L

Laser-cut safety grid. For installation in non-3A approved LKDC manhole covers.



Dimensions:

| LKDC | ØA | | |
|------|-----|-------|--|
| ERDO | mm | inch | |
| 202 | 190 | 7.48 | |
| 306 | 296 | 11.65 | |
| 404 | 390 | 14.96 | |
| 454 | 436 | 17.17 | |
| 518 | 500 | 19.68 | |
| 620 | 605 | 23.82 | |

Material: 316L

Circular cover Type LKDC - LPB and LP



Introduction

The Alfa Laval Access Tank Cover - Circular Cover Type LKDC – LPB and LP is a stainless steel manway cover that provides a secure fit for openings on top of tanks or containers that require quick, easy and convenient entry and egress to vessel interiors.

It is engineered to withstand vacuum conditions created during cleaning procedures or during production under low pressure conditions up to 1 bar.

Application

The Access Tank Cover - Circular Cover Type LKDC – LPB and LP are designed to cover openings on top of tanks or

Technical data

F

| Pressure | |
|---|------------------------------|
| Working pressure: | -14.5 to 14.5 psi |
| Note! The low pressure cover can stand up to 14.5 r | osi and is not PED approved. |

 Temperature

 Temperature range:
 14 to 302 °F

Physical data

| Materials | |
|--------------------------|-------------------------------|
| Lid and frame: | 1.4301 (304) or 1.4404 (316L) |
| Plastic parts: | Nylon Seals |
| (standard): | EPDM Seals |
| (optional): | NBR or FPM or Q (silicone) |
| Surface finish: | Acid Pickled |
| Product wetted surfaces: | Ra≤ 31 µin |
| Other surfaces: | Ra≤ 47 µin |

containers in hygienic applications across the dairy, food, beverage, brewery, wine, juice, personal care, pharmaceutical and many other industries.

Benefits

- · Cost efficient solution for low pressure tanks
- Hygienic design
- Safe and easy handling with safety pin and springs on the handles of the LKDC-LP type

Standard design

To enable visual inspection and/or physical entry into the tank, the tank cover swings outwards. Tank covers may be positioned above and below liquid level to meet different application requirements.

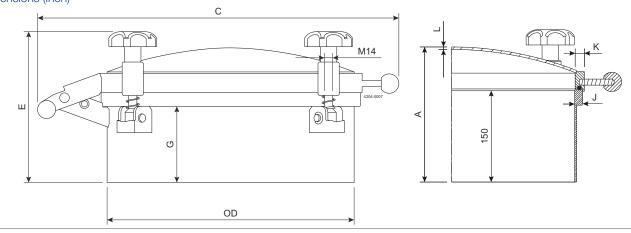
The LKDC-LPB consists of AISI 304 or AISI 316L stainless steel lid and frame and EPDM seals and plastic handles.

The LKDC-LP consists of AISI 304 or AISI 316L stainless steel lid and frame and EPDM seals, handles, springs and safety pin for easy and safe handling. Acid-pickled surface finishes meet the high-quality requirements of hygienic processes; product wetted surfaces are Ra \leq 32 µin. Other surfaces are Ra \leq 47 µin.

Certificates

3.1 (cover and frame are supplied with material certificate 3.1 according to EN10204).

| Temperature: | |
|---------------|-----------------|
| EPDM: | 5 °F / 194 °F |
| NBR: | -22 °F / 230 °F |
| SILICONE (Q): | -58 °F / 392 °F |
| FPM: | 14 °F / 482 °F |



| Size | 300 | 400 | 450 | 500 | 600 | |
|-------------------|-------|-------|-------|-------|-------|--|
| OD | 12.05 | 15.98 | 18.03 | 19.92 | 23.94 | |
| С | 19.02 | 23.39 | 26.02 | 27.6 | 31.77 | |
| A | 8.31 | 8.7 | 9.09 | 9.13 | 9.72 | |
| E | 9.29 | 9.29 | 9.29 | 9.29 | 9.29 | |
| G | 3.23 | 3.23 | 2.64 | 2.64 | 2.64 | |
| К | 0.59 | 0.59 | 0.71 | 0.71 | 0.71 | |
| J | 0.51 | 0.51 | 0.55 | 0.55 | 0.55 | |
| Frame height | 5.91 | 5.91 | 5.91 | 5.91 | 5.91 | |
| Frame thickness H | 0.12 | 0.12 | 0.16 | 0.16 | 0.16 | |
| Weight (lb) | 34.4 | 47.0 | 62.0 | 72.3 | 1.72 | |
| No. off handles | 3 | 4 | 4 | 6 | 6 | |

Circular cover Type C, CG and CG-LP



Introduction

The Alfa Laval Access Tank Cover - Circular Covers Type C, CG, CG-LP are a range of stainless steel manway cover that provides a secure fit for openings of tanks or containers. It offers a quick, easy and convenient means of entry and egress to tank interiors. It also provides a closeable means of access to the interior of the vessel, situated above or below the liquid level for tank top installation.

Application

The Access Tank Cover - Circular Cover Type C is designed for use on static tanks, process tanks, palletized road tankers and standard road tankers in a wide range of applications across the dairy, food, beverage and many other industries.

The type CG and CG-LP are designed for use on tanks, where a glass lid is used to visual inspection of the tank interior.

Benefits

- Versatility to cover all tank needs
- Swing flexibility due to optional hinge, for opening inwards, outwards or sideways
- Glass lid for non- or low-pressure (1 bar) applications

Standard design

The construction of Alfa Laval Access Tank Cover - Circular Cover Type consists of an AISI 304 or 316L stainless steel frame and cover, plastic or stainless steel handle and seal (EPDM, NBR, FPM, Silicone).

To enable visual inspection and/or physical entry into the tank for stainless steel covers, the tank cover swings inwards, outwards or sideways, depending upon the model. Tank covers can be positioned above and below liquid level to meet different application requirements. The CG type glass lid cover functions as an inspection or access port to the tank through a glass lid. It makes it possible to inspect the interior of the tank or the product without opening the tank, suitable for non-pressure tanks.

The CG-LP type glass lid cover is designed for up to 1 bar pressure and full-vacuum.

Electro-polished and acid pickled surface finishes (<Ra 0.8 µm) on the wetted part meet hygienic process quality requirements. 3.1 Material Certification in accordance with EN 10204 is supplied.

Optional stainless steel handle and relief valve are available for certain models.

Working principle

Open the cover by loosening the handle. This range includes covers with various openings.

Certificates

3.1 (cover and frame are supplied with material certificate 3.1 according to EN10204).

Technical data

| Options: | |
|----------------------|--|
| SS handle on request | |
| Relief valve | |

Physical data

| Materials | |
|----------------|---|
| Steel parts: | 1.4301 (304) or 1.4404 (316L) |
| Plastic parts: | Nylon |
| Seal: | EPDM, NBR, FPM or silicone |
| Glass part: | Sodalime tempered glass (max. temperature 248 °F) |

| Cover finish Elec | ctro polished |
|-------------------|---------------|
| Internal: Ra 3 | 32 µin |

| Frame | Acid Pickled |
|-----------|--------------|
| Internal: | Ra 32 µin |
| | |

| Temperature | | |
|---------------|-----------------|--|
| EPDM: | 5 °F / 194 °F | |
| NBR: | -22 °F / 230 °F | |
| SILICONE (Q): | -58 °F / 392 °F | |
| FPM: | 14 °F / 482 °F | |

| Cover shape | Туре | Function | Pressure Range ¹ (PSI) | Relief Valve (option) |
|-------------|-----------------|--------------------------------|-----------------------------------|-----------------------|
| Circular | C-202 | Static tank | 6 | x |
| Circular | C-202A | Static tank | 6 | |
| Circular | C-202B | Static tank | 6 | |
| Circular | C-306 | Static tank | 2 | Х |
| Circular | C-404 | Static tank | 0 | Х |
| Circular | C-404SB | Static tank | 0 | Х |
| Circular | C-404ASB | Static tank | 0 | Х |
| Circular | C-404BSB | Static tank | 0 | Х |
| Circular | C-404CC | Palletized road tanker | 14.5 | |
| Circular | C-404H6 | Static tank | 17 | |
| Circular | C-404AH4 | Static tank | 3 | Х |
| Circular | C-418 | Static tank | 9 | |
| Circular | C-454 | Static tank and road tanker | 0 | Х |
| Circular | C-454A | Road tanker | 2 | Х |
| Circular | C-454SB | Static tank | 0 | х |
| Circular | C-518MH | Road tanker | 0 | Х |
| Circular | C-518SBAR | Static tank | 2 | Х |
| Circular | C-518 / C-518SB | Static tank | 0 | Х |
| Circular | C-518A | Road tanker | 2 | Х |
| Circular | C-620A / C620SB | Static tank | 0 | Х |
| Circular | CG-404 | Static tank with glass opening | 0 | |
| Circular | CG-454 | Static tank with glass opening | 0 | |
| Circular | CG-518 | Static tank with glass opening | 0 | |
| Circular | CG-LP-300 | Static tank with glass opening | 1 | |
| Circular | CG-LP-404 | Static tank with glass opening | 1 | |
| Circular | CG-LP-518 | Static tank with glass opening | 1 | |

¹ Calculated max. pressure (psi).

Circular cover Type LKDS



beverage industries. It is especially suitable for dairy balance tanks and Cleaning-in-Place (CIP) holding tanks.

Benefits

- High-quality tank cover
- Hygienic design

Standard design

The Alfa Laval Access Tank Cover - Circular Cover Type LKDS consists of a stainless steel lid and frame, and a splash guard to prevent liquid from spraying out during a cleaning process because the cover is not designed to fit watertight. Onsite assembly is required.

Acid pickled surface finishes (< Ra 0.8μ m) meet hygienic process quality requirements. 3.1 Material Certification in accordance with EN 10204 is supplied.

Working principle

The LKDS cover is not designed to fit watertight to the tank and therefore it is supplied with a splash guard to prevent liquid spraying out during a cleaning process.

Certificates

3.1 certificate.

| The Alfa Laval Access Tank Cover - Circular Cover Type LKDS is | | |
|--|--|--|
| a stainless steel manway cover that fits on openings on top | | |
| of tanks or containers. It offers a quick, easy and convenient | | |
| means of entry and egress to tank interiors. It provides | | |
| a cover, situated above the liquid level, but no closable means of | | |
| access to the interior of the vessel. | | |
| | | |

Application

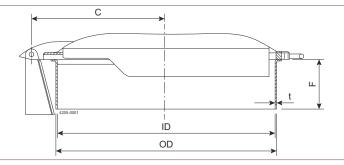
Introduction

The Access Tank Cover - Circular Cover Type LKDS is designed for use in hygienic applications across the dairy, food and

| Technical data | | |
|-------------------------------------|-------------------------------------|--|
| Pressure | | |
| Working pressure: | No pressure | |
| | | |
| Physical data | | |
| Materials | | |
| Lid and frame: | 1.4301 (304) or 1.4404 (316L) | |
| | | |
| Surface finish | Acid Pickled | |
| Product wetted surfaces: | Ra 32 µin (excluding welding zone) | |
| Other frame and lid surfaces: | Ra 32 µin (excluding welding zone) | |
| Other support and spindel surfaces: | Ra 120 µin (excluding welding zone) | |
| | | |
| Temperature | | |
| Min. temperature: | - 4 °F | |
| Max. temperature: | + 194 °F | |
| | | |
| Weight: | 11 / 13.2 lbs | |



Note! The LKDS covers are not assembled at delivery.



| Size/OD | 454 | 454 | |
|-----------------|-------|-------|--|
| ID | 17.64 | 17.64 | |
| F | 0.94 | 3.94 | |
| t | 0.12 | 0.12 | |
| С | 10.71 | 10.71 | |
| Cover thickness | 0.08 | 0.08 | |

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