

Specialist Manlid Manufacturers



the beginning

Swift was established in 1951. During these early days the activities of the company were mainly directed at the South African heavy transport industry through the supply of trailer running gear and axle components.

In 1992, Swift in conjunction with the South African Tank Container Association (SATCA), the South African Stainless Steel Association (SASSDA) and local tank container manufacturers, undertook to research and develop a stainless steel manlid assembly for tank containers.

The first prototypes were built in 1999 and displayed at the Marichem Show in Amsterdam in November 1999, closely followed by an appearance at the Intermodal Show in Atlanta, USA in April 2000.



our commitment to you

Swift's management and employees are committed to Customer Service Excellence while producing world-class manlid assemblies and tank container components. To ensure consistent quality levels, a Quality Management System was implemented and strictly enforced, making it possible to give our clients the assurance that products manufactured by us will meet with their specific requirements.

beyond production

A specialised computer system allows for the accurate tracking of orders, from acceptance to invoicing the finished products. This, in addition to the efficiency gains generated and our Quality Management System, enables us to compete locally and internationally on price, quality and service.

Swift has established a reputation for delivering a quality product, meeting the needs and expectations of its customers at a competitive price and on time, through the use of new automated robotic systems.





Table of Contents

ISO Tank Containers	5
500mm 8-Point, Pressed Insulated Manlid Assembly	6
302mm 4-Point, Pressed, Insulated Inspection Cover Assembly	7
4 Bar ISO Tank Container Flanges	8
500mm Bolted Manlid Assembly	9
European Road Tankers	10
500mm 6-Point, Pressed, Insulated High Neck Ring Manlid Assembly	11
302mm 4-Point, Pressed, Insulated High Neck Ring Inspection Cover Assembly	12
Dry-Bulk Tankers	13
450mm 4-Point AL 5083 H111 Manlid Assembly	14
454mm 4-Point, Swivel-Type Aluminium Assembly	15
500mm 4-Point AL 5083 H111 Neck Ring Assembly	16
Tipping Silos	17
600mm 4-Point Conical Discharge Manlid Assembly	18
600mm 4-Point Aluminium Conical Discharge Weld-In Collar	19
825mm 6-Point Conical Discharge Manlid Assembly	20
North American Cargo Tanks (Road Tankers)	21
20" (504mm) 6-Point, Low Profile Road Tanker Manlid Assembly	22
20" (504mm) 4-Point Low Profile Road Tanker Manlid Assembly	23
19" 4-Point 3A Sanitary Manlid Assembly	24
19" 5-Point 3A Sanitary Manlid Assembly	25
Food & Beverage Industry	26
400mm 4-Point, 1 Bar, Domed, Foodgrade Manlid Assembly	27
500mm 4-Point, 1 Bar, Domed, Foodgrade Manlid Assembly	28
600mm 6-Point, 1 Bar, Domed, Foodgrade Manlid Assembly	29
400mm 4-Point, Pressureless, Sight-Glass Foodgrade Manlid Assembly	30
455,4mm 6-Point, Low Profile Manlid Assembly	31





ISO Tank Containers

500mm 8-Point, Pressed Insulated Manlid Assembly

DESCRIPTION

Manlid:

8-point swing bolt bracketed, pressed, insulated, domed manlid.

Neck and Compensating Ring Assembly:

Consists of a low profile pressed neck ring and compensating ring, with 8 swing bolts.

SPECIFICATIONS

MAWP:	4 bar (58 psi)
Test Pressure:	6 bar (87 psi)
Design Temp:	-40°C (-40°F) to 200°C (392°F)
Weight:	36 kg

OPTIONS

- Straight neck or compensated version.
- 6-point, 8-point and 10-point fastening.
- 80 mm up to 300 mm neck ring height.
- Tank radii from 850 mm to 1220 mm.
- Non-protruding neck ring.
- Option of brass/stainless steel wing/hex nuts.

MARKINGS

The following is pin-stamped on the assembly:

- Swift logo.
- Assembly & part number.
- Serial number.
- MAWP/Test pressure.
- Other markings specified by the customer.

SUB-ASSEMBLIES

- Lid assembly.
- Low profile neckring assembly.
- Swing bolt & hinge pin assemblies.
- Seal (supplied separately).
- Cap screw.

MATERIAL

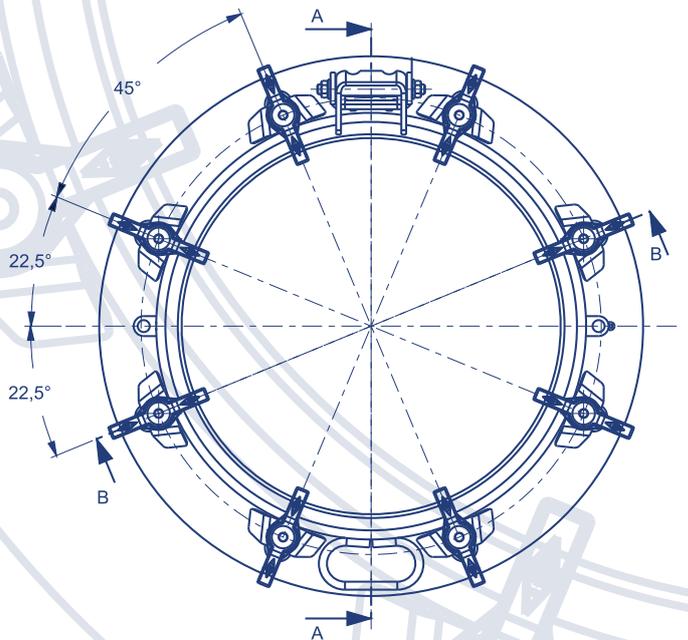
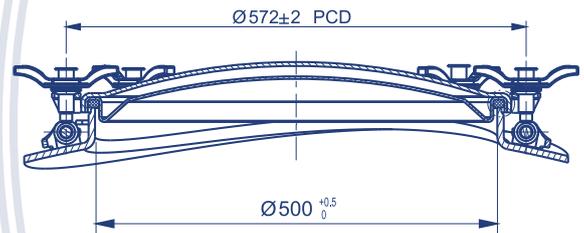
- The contact parts are manufactured in Stainless Steel 316/316L & 1.4404/1.4401.
- Non-contact parts in Stainless Steel 304.
- The 3.2 mm inner shells are SANS 50028-7 W1.4402 CR.

DESIGN CODES AND APPROVALS

- ASME VIII Div. 1
- RID/ADR
- EN 14025
- CFR 49
- IMDG
- BUREAU VERITAS

FINISH

Lids are electro-polished and neckrings are blasted and pickled.



302mm 4-Point, Pressed, Insulated Inspection Cover Assembly

DESCRIPTION

Manlid:

4-point swing bolt bracketed, pressed, insulated domed inspection cover.

Neck and Compensating Ring Assembly:

Consists of a low profile pressed, neck ring and compensating ring, with 4 swing bolts.

SPECIFICATIONS

MAWP:	4 bar (58 psi)
Test Pressure:	6 bar (87 psi)
Design Temp:	-40°C (-40°F) to 200°C (392°F)
Weight:	17.8 kg

OPTIONS

- Straight neck or compensated version.
- 80 mm up to 300 mm neck ring height.
- Tank radii from 850 mm to 1220 mm.
- Option of brass/stainless steel wing/hex nuts.

MARKINGS

The following is pin-stamped on the assembly:

- Swift logo.
- Assembly & part number.
- Serial number.
- MAWP / Test Pressure.
- Material traceability.
- Other markings specified by the customer (eg. Corporate branding).

SUB-ASSEMBLIES

- Lid assembly.
- Low profile neckring assembly.
- Swing bolt & hinge pin assemblies.
- Seal (supplied separately).

MATERIAL

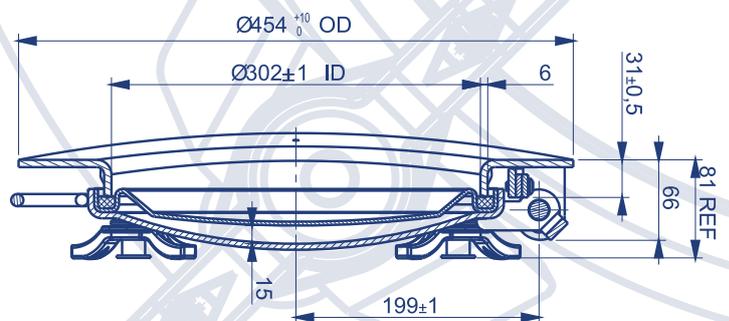
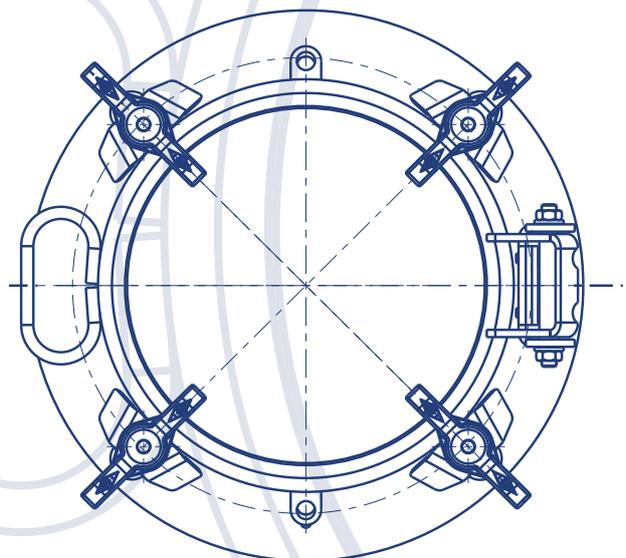
- The contact parts are manufactured in Stainless Steel 316/316L & 1.4404/1.4401.
- Non-contact parts in Stainless Steel 304.
- The 3.2 mm inner shells are SANS 50028-7 W1.4402 CR.

DESIGN CODES AND APPROVALS

- ASME VIII Div. 1 & Div. 2 (FEA)
- RID/ADR
- EN 14025
- EN 13445-3 (FEA)
- CFR 49
- IMDG
- BUREAU VERITAS

FINISH

Lids are electro-polished and neckrings are blasted and pickled.



4 Bar ISO Tank Container Flanges

All Swift weld pad flanges are designed to fit the various different types of valves currently produced.

FLANGE TYPES

- **Bottom Discharge Weld Pads**
3" 45° Bottom Discharge Weld Pad (Steam heated, or non-steam heated).
3" 30° Bottom Discharge Weld Pad (Steam heated, or non-steam heated).
- **1.5" Air inlet Weld Pad**
- **2.5" PRV/SRV Weld Pad**
Screwed or flange type valve.
Burst disc adaptor flange available (with or without gauge guard).
- **3" Top Discharge Weld Pad**
Options available with or without siphon provision.
Various drilling patterns are also available.
- **3" Spare Connection Weld Pad**

Blind flanges to suit all types of weld pads are available.
Recessed weld pad options are also available.

SPECIFICATIONS

All flanges are tolerance to ANSI B16.5 U.O.S.

TESTING

All steam heated flanges are individually pressure tested to 20 bar.

MARKINGS

All flanges are laser etched with the following details:

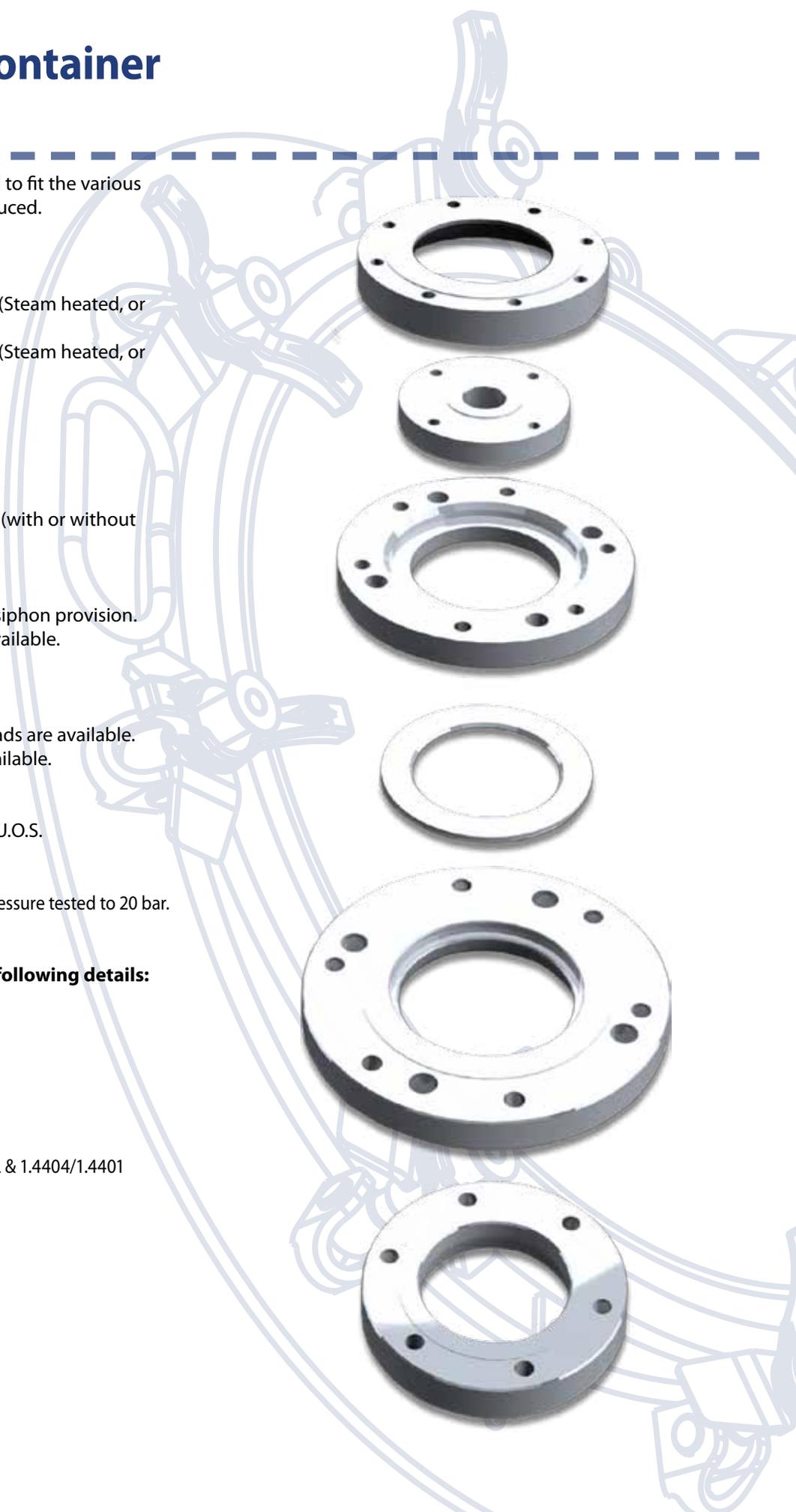
- Swift logo.
- Flange part number.
- Material heat number(s).
- Material specification / code.
- Serial numbers / production date.

MATERIAL

All flanges are manufactured from 316/316L & 1.4404/1.4401 Stainless Steel.

FINISH

All flanges are pickled and passivated.



500mm Bolted Manlid Assembly

DESCRIPTION

Manlid:

22-point Flat Head Bolted, or Domed Manlid.

Neck and Compensating Ring Assembly:

Consists of a compensating ring, profiled neck ring and flange ring joined by means of welds.

SPECIFICATIONS

Bolted Manlid can be custom designed in accordance with ASME VIII Div. 1 and/or EN 14025 to satisfy specific customer requirements. Other design codes are also available.

OPTIONS

- Straight neck or compensated version.
- Sizes to customer specifications.
- Tank radii from 850 mm to 1220 mm.
- Protruding/Non-protruding neck ring.

MARKINGS

The following is pin-stamped on the assembly:

- Swift logo.
- Assembly & part number.
- MAWP/Test pressure.
- Material traceability.
- Other markings specified by the customer.

SUB-ASSEMBLIES

- Cover.
- Neck Ring Assembly.
- Bolt Kit.
- Seal (supplied separately).

MATERIAL

The contact parts are manufactured in dual certified Stainless Steel 316/316L (Handles from 304 stainless steel).

DESIGN CODES AND APPROVALS

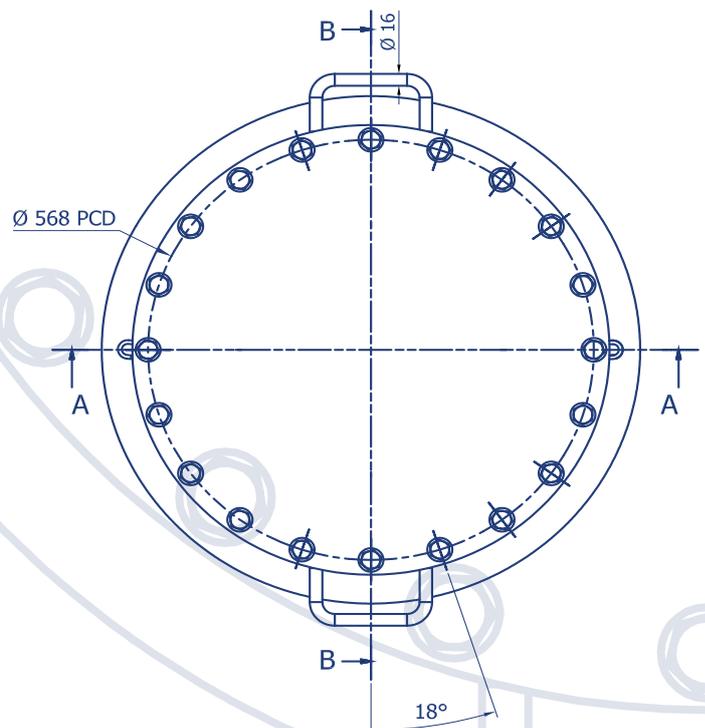
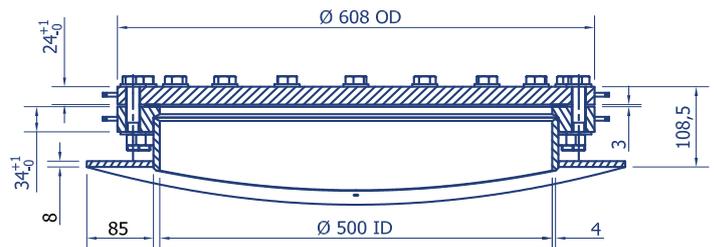
Depending on the order quantity; Bureau Veritas design appraisal can be gained confirming the applicable design standards: RID/ADR; IMDG; ASME VIII-1; EN 14025.

TORQUE PROCEDURE

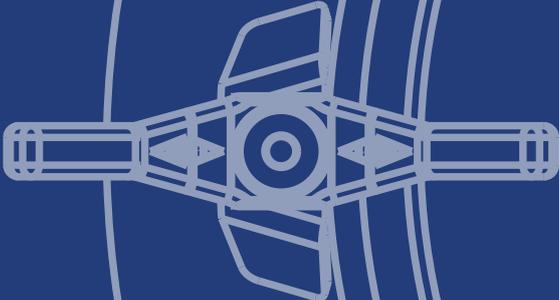
1. Place bolts in position.
2. Start next to the handle - tighten in a crossover/clockwise sequence.
3. Torque until sealing has been achieved.

FINISH

Lids are electro-polished and neckrings are blasted and pickled.



European Road Tankers



500mm 6-Point, Pressed, Insulated High Neck Ring Manlid Assembly

DESCRIPTION

Manlid:

6-point swing bolt bracketed, pressed, insulated, domed manlid.

Neck and Compensating Ring Assembly:

Consists of a pressed/fabricated neck ring welded to a compensating ring, with 6 swing bolts.

SPECIFICATIONS

MAWP:	3 bar (43.5 psi)
Test Pressure:	4.5 bar (65.3 psi)
Design Temp:	-40°C (-40°F) to 250°C (482°F)
Weight:	40 kg

OPTIONS

- Straight neck or compensated version.
- 51 mm or 200 mm neck ring height.
- Tank radii from 850 mm to 1220 mm.
- Non-protruding neck ring.
- Option of brass/stainless steel wing/hex nuts.

MARKINGS

The following is pin-stamped on the assembly:

- Swift logo.
- Assembly & part number.
- Serial number.
- MAWP/Test pressure.
- Other markings specified by the customer.

SUB-ASSEMBLIES

- Lid assembly.
- Low profile neckring assembly.
- Swing bolt & hinge pin assemblies.
- Seal (supplied separately).
- Cap screw.

MATERIAL

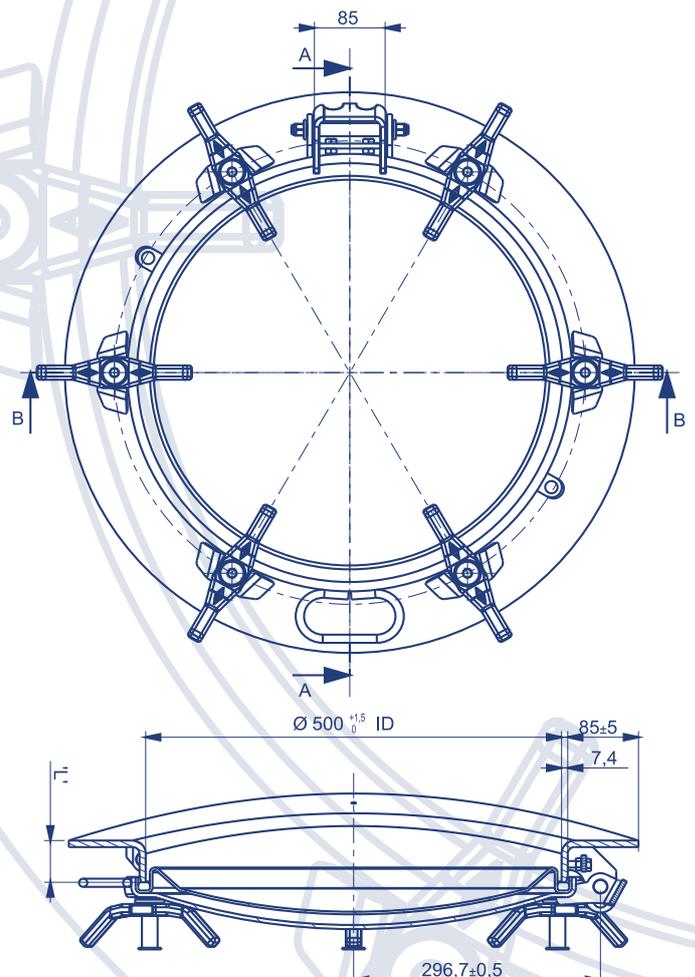
- The contact parts are manufactured in Stainless Steel 316/316L & 1.4404/1.4401.
- Non-contact parts in Stainless Steel 304.
- The 3.2 mm inner shells are SANS 50028-7 W1.4402 CR.

DESIGN CODES AND APPROVALS

- ASME VIII Div. 1
- RID/ADR
- EN 14025
- CFR 49
- IMDG
- BUREAU VERITAS

FINISH

Lids are electro-polished and neckrings are blasted and pickled.



302mm 4-Point, Pressed, Insulated High Neck Ring Inspection Cover Assembly

DESCRIPTION

Manlid:

4-point swing bolt bracketed, pressed, insulated domed inspection cover.

Neck and Compensating Ring Assembly:

Consists of a pressed/fabricated neck ring welded to a compensating ring, with 4 swing bolts.

SPECIFICATIONS

MAWP:	3 bar (43.5 psi)
Test Pressure:	4.5 bar (65.3 psi)
Design Temp:	-40°C (-40°F) to 250°C (482°F)
Weight:	20 kg

OPTIONS

- Straight neck or compensated version.
- 51 mm or 200 mm neck ring height.
- Tank radii from 850 mm to 1220 mm.
- Non-protruding neck ring.
- Option of brass/stainless steel wing/hex nuts.

MARKINGS

The following is pin-stamped on the assembly:

- Swift logo.
- Assembly & part number.
- Serial number.
- MAWP / Test Pressures.
- Other markings specified by the customer.

SUB-ASSEMBLIES

- Lid assembly.
- Neckring assembly.
- Swing bolt & hinge pin assemblies.
- Seal (supplied separately).
- Cap screw.

MATERIAL

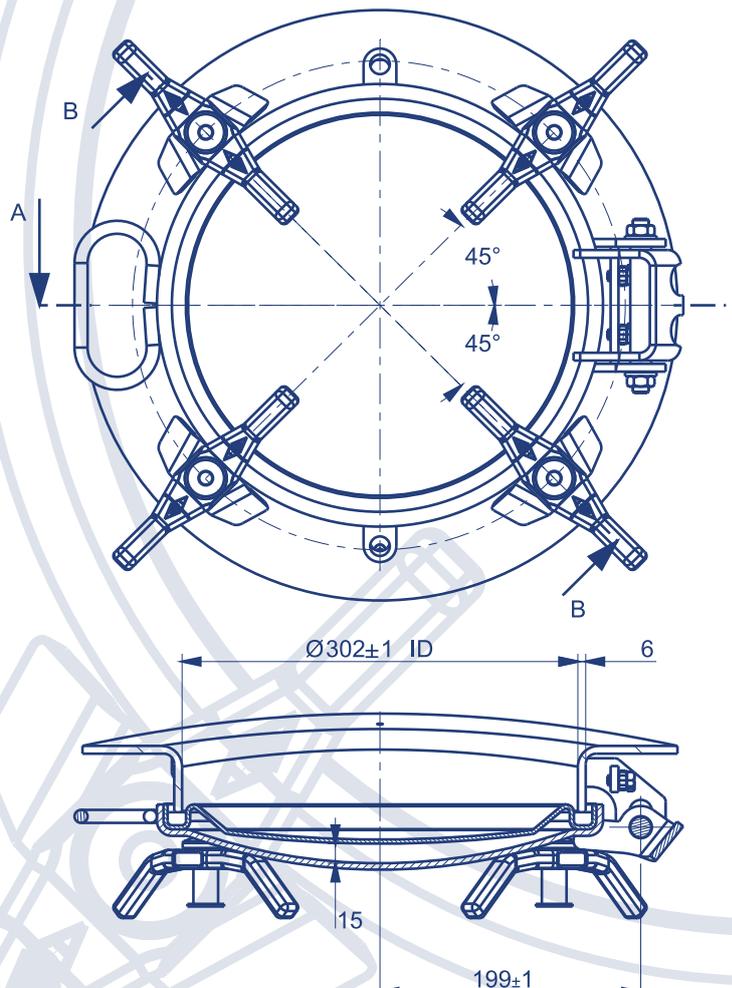
- The contact parts are manufactured in Stainless Steel 316/316L & 1.4404/1.4401.
- Non-contact parts in Stainless Steel 304.
- The 3.2mm inner shells are SANS 50028-7 W1.4402 CR.

DESIGN CODES AND APPROVALS

- ASME VIII Div. 1
- RID/ADR
- EN 14025
- CFR 49
- TRT006
- IMDG
- BUREAU VERITAS

FINISH

Lids are electro-polished and neckrings are blasted and pickled.



Dry-Bulk Tankers



450mm 4-Point AL 5083 H111 Manlid Assembly

DESCRIPTION

Ø 450mm 4-point swing bolted, Aluminium 5083 H111 manlid assembly.

SPECIFICATIONS

MAWP:	2bar (29psi)
Test Pressure:	3 bar (43.5psi)
Design Temp:	-20°C (-4°F) to 80°C (176°F)
Weight:	± 34kg

OPTIONS

- Tank radii from 980mm to 1330mm.

MARKINGS

The following is laser inscribed on the assembly:

- Swift logo.
- Assembly & part number.
- Serial number.
- MAWP / Test Pressures.
- Material traceability.
- Other markings specified by the customer.

SUB-ASSEMBLIES

- Lid assembly.
- Neck assembly.
- Swing bolt & hinge pin assemblies.
- Seal (supplied separately).

MATERIAL

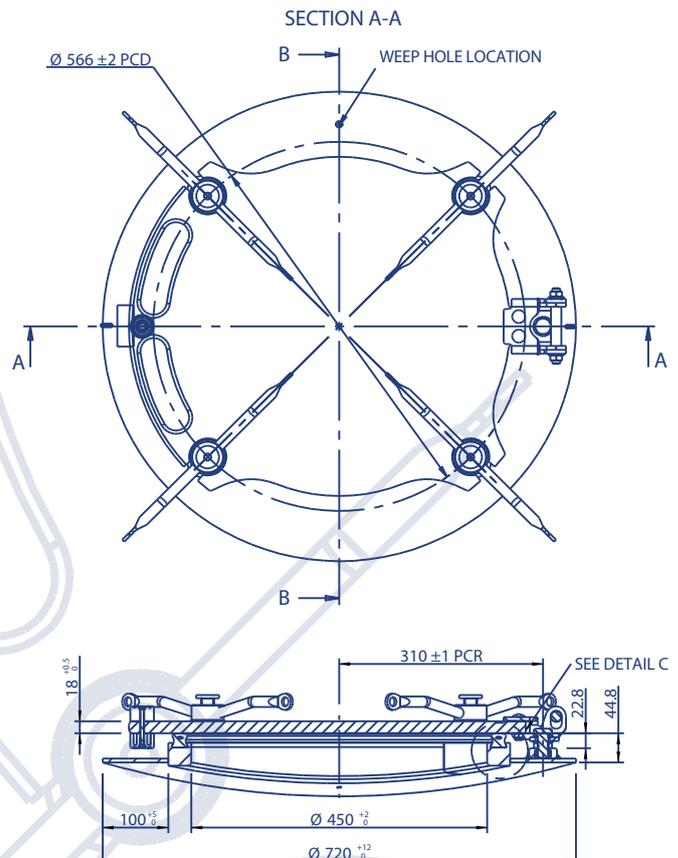
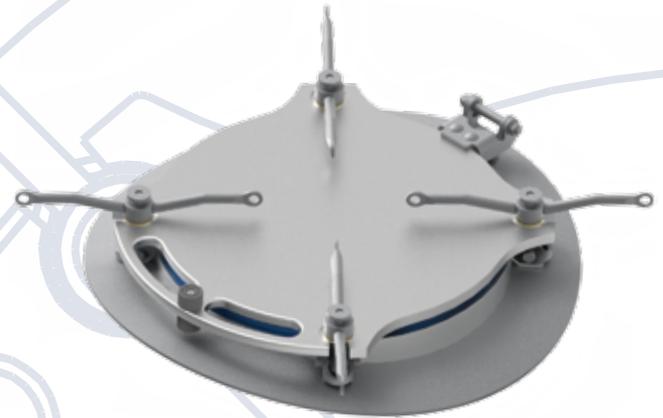
- The contact parts are manufactured in Aluminium AW 5083 H111.
- Stainless Steel 304 swing bolt wing nut with naval brass insert, and hinge arrangement.

DESIGN CODES AND APPROVALS

- EN 13445-3
- AD 2000-Merkblatt
- PED 2014/68/EU
- Bureau Veritas

FINISH

Neck Rings are shot-blasted, lid sealing surface machined while top remains plate finish.



454mm 4-Point, Swivel-Type Aluminium Assembly

DESCRIPTION

Manlid:

Ø454mm 4-point swing bolted, swivel-type opening Aluminium manway assembly.

SPECIFICATIONS

WORKING CONDITION 1

MAWP: 2 bar (29 psi) / -1 bar (-14.5 psi)
Test Pressure: 3 bar (43.5 psi)
Design Temp: -40°C (-40°F) to 80°C (176°F)

WORKING CONDITION 2

MAWP: 2 bar (29 psi) / -1 bar (-14.5 psi)
Test Pressure: 2.6 bar (37.7 psi)
Design Temp: 20°C (-4°F) to 65°C (149°F)

Weight: ±24 kg

OPTIONS

- Tank radii from 980mm to 1280mm.

MARKINGS

The following is laser inscribed on the assembly:

- Swift logo.
- Assembly & part number.
- Serial number.
- MAWP / Test Pressures.
- Material traceability.
- Other markings specified by the customer (eg. corporate branding).

SUB-ASSEMBLIES

- Lid assembly.
- Neck assembly.
- Swing bolt & hinge pin assemblies.
- Seal (supplied separately).

MATERIAL

- The contact & non-contact parts are manufactured in Aluminium 5083 H111.
- Stainless Steel 304 swing bolt wing nut with naval brass insert, and hinge arrangement.

DESIGN CODES AND APPROVALS

WORKING CONDITION 1

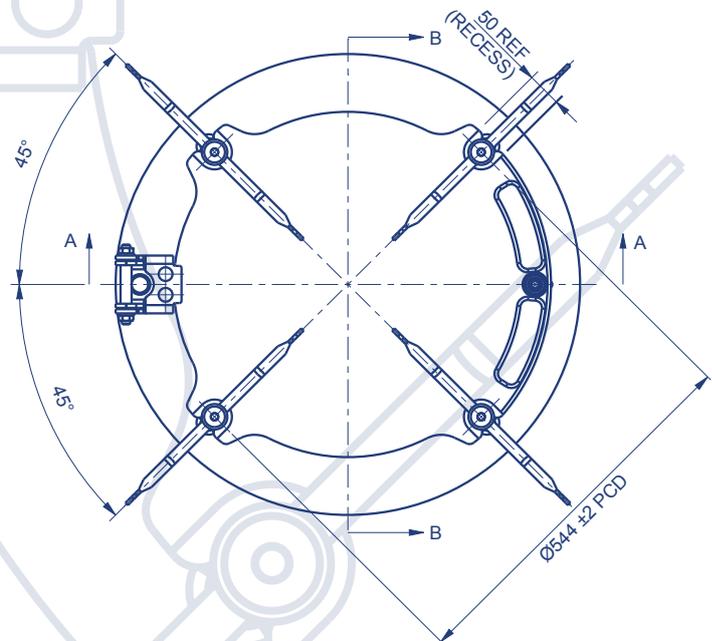
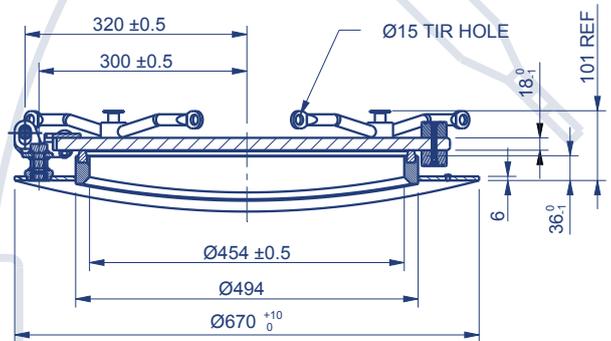
- EN 13445-8
- PED 2014/68/EU

WORKING CONDITION 2

- ASME VIII Div. 1

FINISH

Lids and neckrings are blasted.



500mm 4-Point AL 5083 H111 Neck Ring Assembly

DESCRIPTION

Ø 500mm 4-point swing bolted, Aluminium 5083 H111 neck ring assembly.

SPECIFICATIONS

MAWP: 2.5 bar (36.3 psi)
Test Pressure: 4 bar (58psi)
Design Temp: -20°C (-4°F) to 80°C (176°F)
Weight: ± 17kg

OPTIONS

- Tank radii from 980mm to 1280mm

MARKINGS

The following is pin-stamped on the assembly:

- Swift logo.
- Assembly & part number.
- Serial number.
- MAWP / Test Pressures.
- Material Traceability.
- Other markings specified by the customer.

MATERIAL

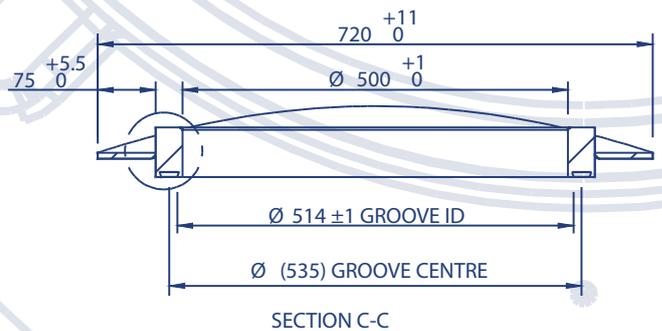
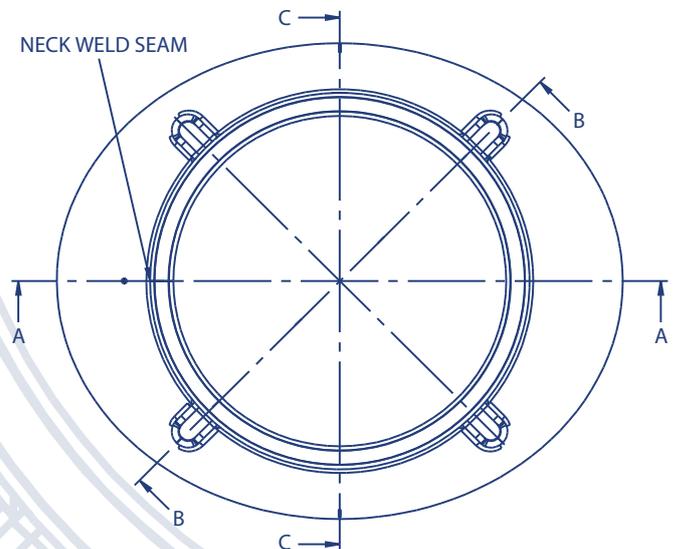
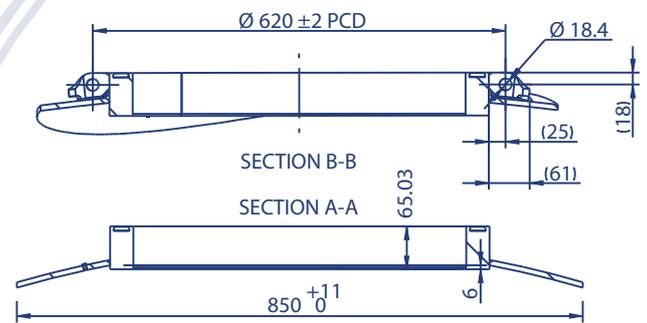
- The contact & non-contact parts are manufactured in Aluminium AW 5083 H111.

DESIGN CODES AND APPROVALS

- EN 13445-3
- EN 14025
- AD 2000-Merkblatt
- PED 2014/68/EU
- Bureau Veritas

FINISH

Neck Rings are shot-blasted.



Tipping Silos



600mm 4-Point Conical Discharge Manlid Assembly

DESCRIPTION

Manlid:

Ø600mm 4-point swing bolted, conical discharge manlid assembly.

SPECIFICATIONS

MAWP:	2 bar / -1 bar
Test Pressure:	3 bar
Design Temp:	-40°C to +80°C
Weight:	±24 kg

OPTIONS

- Material either stainless steel 304 (1.4301) or 316 (1.4401).

MARKINGS

The following is laser inscribed on the manlid:

- Swift logo
- Assembly & part number
- Serial number
- MAWP / Test pressure
- Material traceability
- Other markings specified by the customer (eg. Corporate branding).

Other available parts for assembly

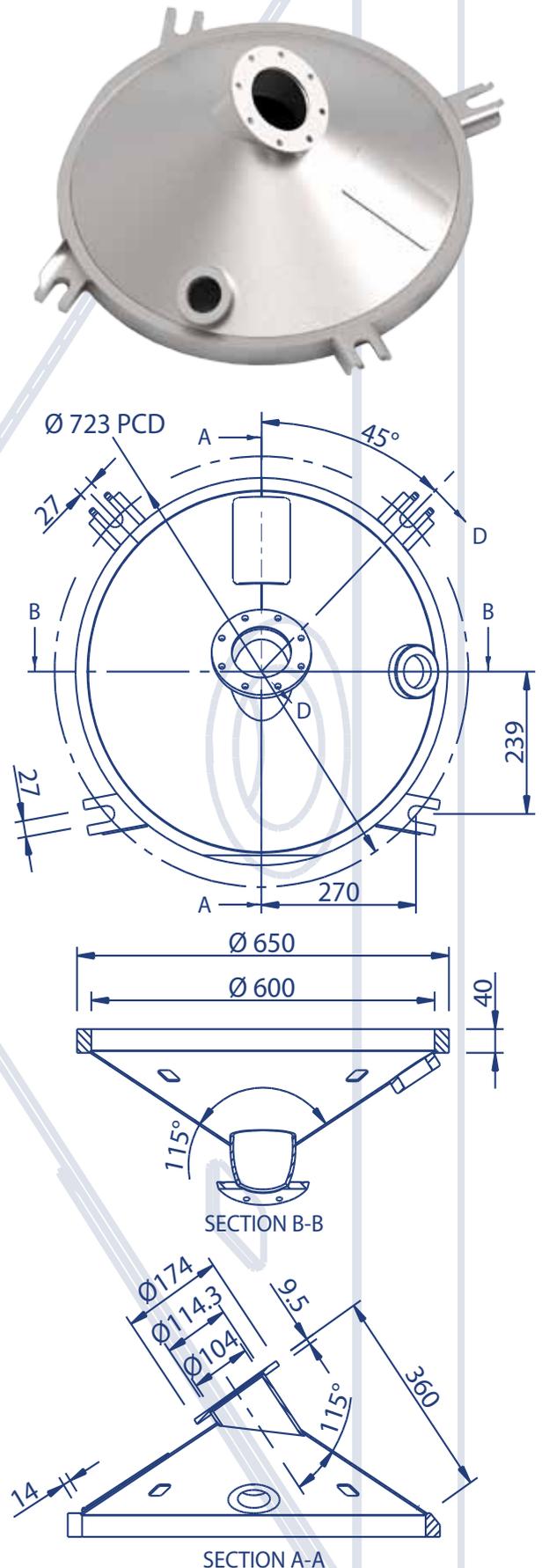
- Weld-In Flange (Collars) are available in 5083 H111, 304 or 316.
- Swing Bolts in 304
- Seals (supplied separately)

DESIGN CODES AND APPROVALS

- EN 13445-8
- ASME VIII Div. 1

FINISH

Assemblies are bead blasted and/or electro-polished.



600mm 4-Point Aluminium Conical Discharge Weld-In Collar

DESCRIPTION

Manlid:

ø 600mm 4-Point Aluminium Conical Discharge Weld-In Collar.

SPECIFICATIONS

MAWP: 2 bar (29 psi) / -1 bar (-14.5 psi)

Test Pressure: 3 bar (43.5 psi)

Design Temp: -40°C (-40°F) to 80°C (176°F)

Weight: ±19 kg

OPTIONS

- Material Aluminium AW 5083 H111.

MARKINGS

The following is laser inscribed on the assembly:

- Swift logo.
- Assembly & part number.
- Serial number.
- MAWP / test pressure.
- Material traceability.
- Other markings specified by the customer (eg. Corporate branding).

OTHER AVAILABLE PARTS FOR ASSEMBLY

- Swing bolt & hinge arm assemblies.
- Seal (supplied separately).

MATERIAL

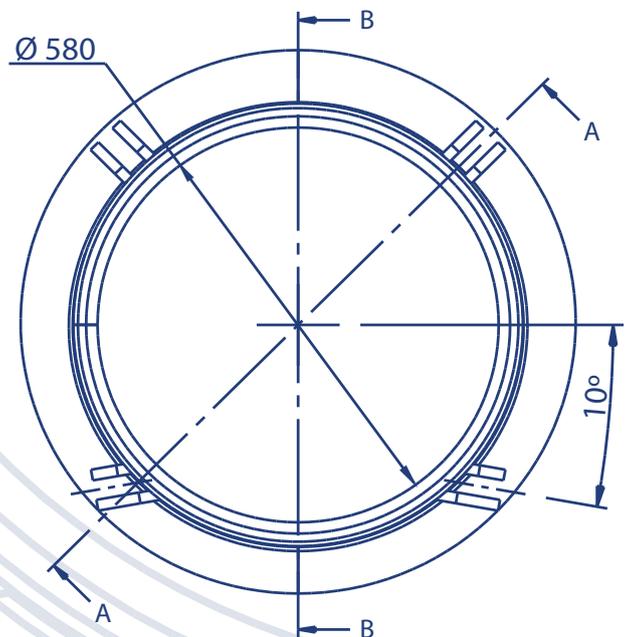
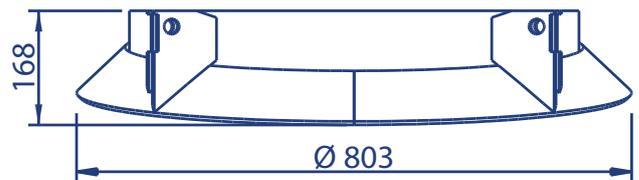
- Neckrings are manufactured in Aluminium 5083 H111.
- Lid has Stainless Steel 304 / 316 option.
- Stainless Steel 304 swing bolts and hinge arrangement.

DESIGN CODES AND APPROVALS

- EN 13445-8
- ASME VIII Div. 1

FINISH

Lids and neckrings are bead blasted.



825mm 6-Point Conical Discharge Manlid Assembly

DESCRIPTION

Manlid:
ø 825mm 6-point swing bolted, manway assembly.

SPECIFICATIONS

MAWP: 2 bar (29 psi) / -1 bar (-14.5 psi)
Test Pressure: 3 bar (43.5 psi)
Design Temp: -40°C (-40°F) to 80°C (176°F)
Weight: ±46 kg

OPTIONS

- Material ('X') either Stainless Steel 304 (1.4301) or 316 (1.4401).
- Cone thickness ('Y') either 3 or 4mm.

MARKINGS

The following is laser inscribed on the assembly:

- Swift logo.
- Assembly & part number.
- Serial number.
- MAWP / test pressure.
- Material traceability.
- Other markings specified by the customer (eg. Corporate branding).

OTHER AVAILABLE PARTS FOR ASSEMBLY

- Swing bolt & hinge arm assemblies.
- Seal (supplied separately).

MATERIAL

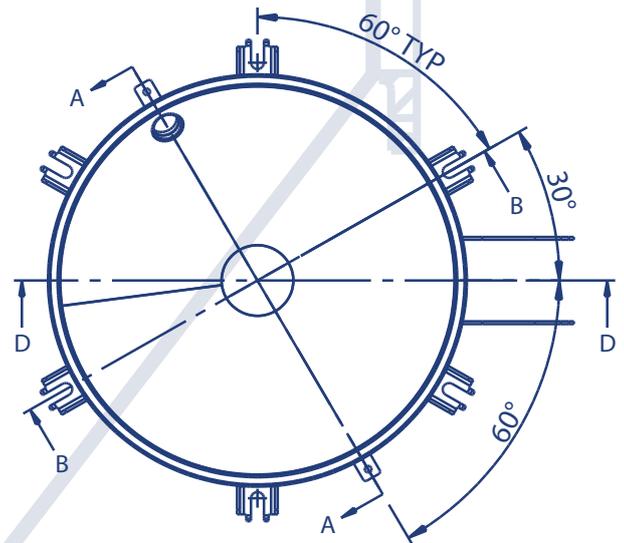
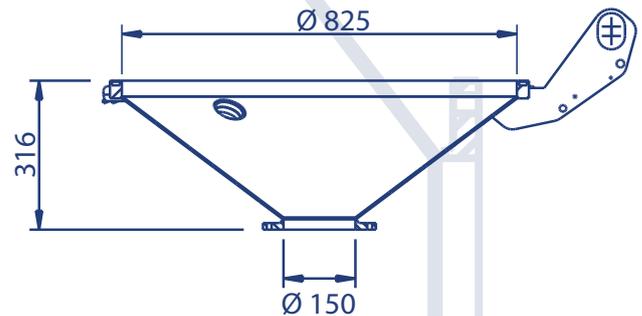
- Lid has Stainless Steel 304 / 316 option.
- Stainless Steel 304 swing bolts and hinge arrangement.

DESIGN CODES AND APPROVALS

- EN 13445-3
- ASME VIII Div. 1

FINISH

Lids are electropolished, with $R_a < 0.8\mu\text{m}$.





North American Cargo Tanks (Road Tankers)

20" (504mm) 6-Point, Low Profile Road Tanker Manlid Assembly

DESCRIPTION

Manlid:

6-point swing bolt bracketed domed manlid.

Neck and Compensating Ring Assembly:

Consists of a neck ring with 6 swing bolts.

SPECIFICATIONS

MAWP:	3.6 bar (52.21 psi)
Test Pressure:	5.4 bar (78.32 psi)
Design Temp:	-40°C (-40°F) to 150°C (302°F)
Weight:	36 kg

OPTIONS

- 304 and 304L option available.
- Straight neck or compensated version.
- 100 mm up to 254 mm neck ring height.
- Tank radii from 850 mm to 1220 mm.

MARKINGS

The following is pin-stamped on the assembly:

- Swift logo.
- Assembly & part number.
- Serial number.
- MAWP / Test Pressure.
- Material traceability.
- Reference to standards.

SUB-ASSEMBLIES

- Low profile lid assembly.
- Straight neckring assembly.
- Swing bolt & hinge pin assemblies.
- Seal (supplied separately).

MATERIAL

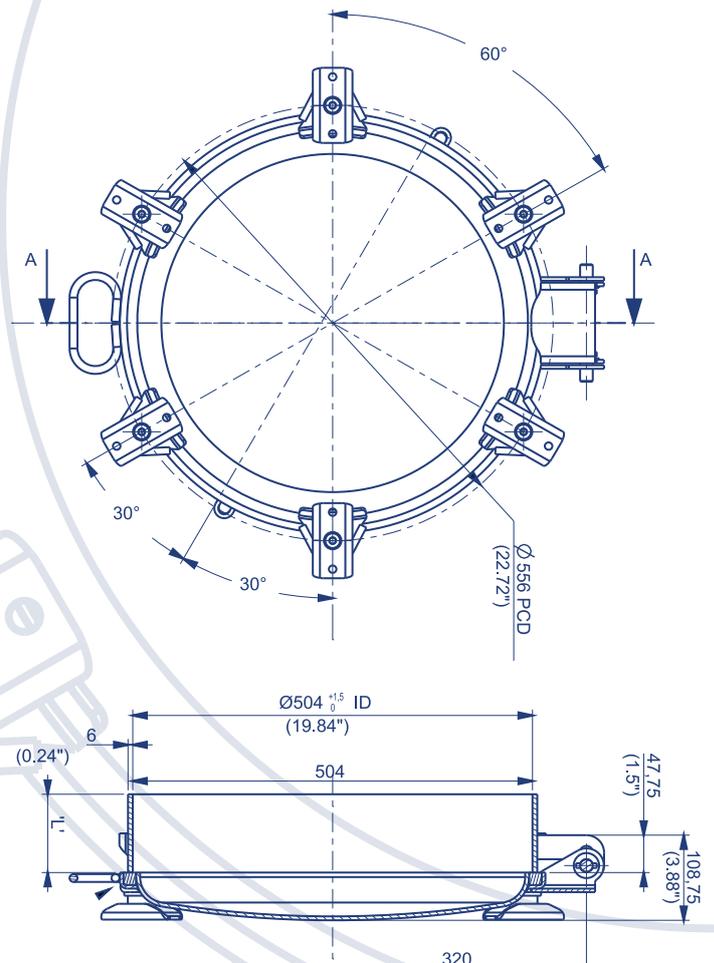
- The contact parts are manufactured in Stainless Steel 316 and 316L.
- Non-contact parts in Stainless Steel 304.

DESIGN CODES AND APPROVALS

- ASME VIII Div. 1
- RID/ADR
- EN 14025
- 49 CFR 178.345-5
- IMDG
- BUREAU VERITAS

FINISH

Lids and neck rings are blasted and pickled. Further option to electro-polish manlids is available on request.



20" (504mm) 4-Point Low Profile Road Tanker Manlid Assembly

DESCRIPTION

Manlid:

4-point swing bolt bracketed domed manlid.

Neck and Compensating Ring Assembly:

Consists of a neck ring with 4 swing bolts.

SPECIFICATIONS

MAWP:	3 bar (43.5 psi)
Test Pressure:	5.17 bar (75 psi)
Design Temp:	-40°C (-40°F) to 150°C (302°F)
Weight:	36 kg

OPTIONS

- 304 and 304L option available.
- Straight neck or compensated version.
- 100 mm up to 254 mm neck ring height.
- Tank radii from 850 mm to 1220 mm.

MARKINGS

The following is pin-stamped on the assembly:

- Swift logo.
- Assembly & part number.
- Serial number.
- MAWP / Test Pressure.
- Material traceability.
- Reference to standards.

SUB-ASSEMBLIES

- Low profile lid assembly.
- Straight neckring assembly.
- Swing bolt & hinge pin assemblies.
- Seal (supplied separately).

MATERIAL

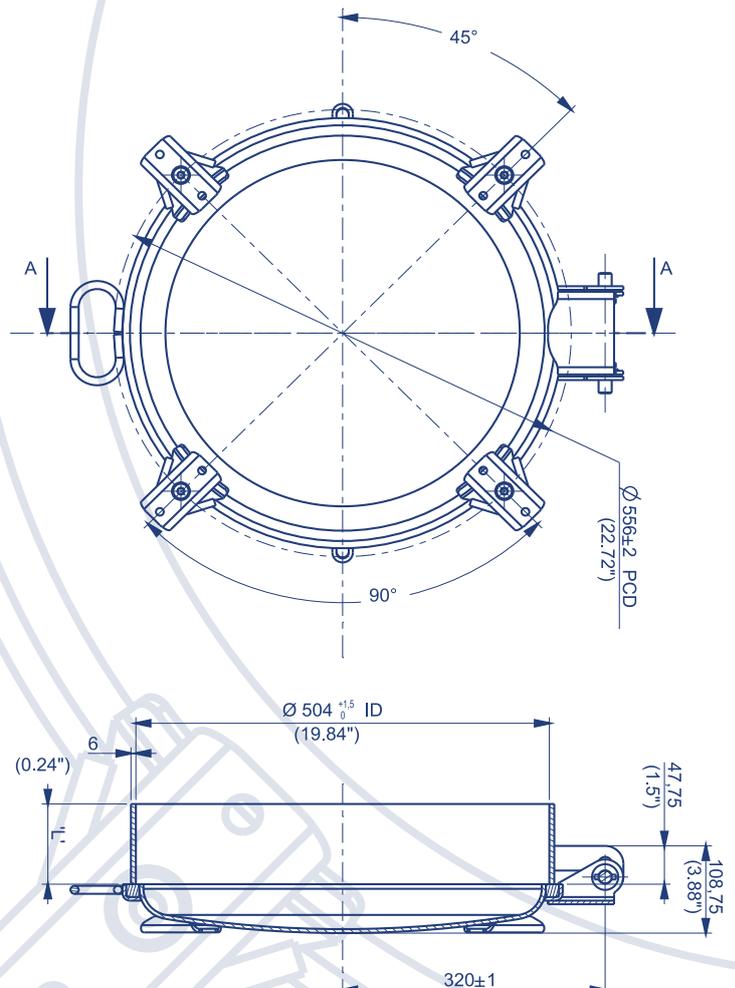
- The contact parts are manufactured in Stainless Steel 316 and 316L.
- Non-contact parts in Stainless Steel 304.

DESIGN CODES AND APPROVALS

- ASME VIII Div. 1
- RID/ADR
- EN 14025
- 49 CFR 178.345-5
- IMDG
- BUREAU VERITAS

FINISH

Lids and neck rings are blasted and pickled. Further option to electro-polish manlids is available on request.



19" 4-Point 3A Sanitary Manlid Assembly

DESCRIPTION

Manlid:

3A Sanitary 19" 4 point Personnel access port for wet applications.

SPECIFICATIONS

MAWP:	5 psi (0.34 bar)
Test Pressure:	TBC
Design Temp:	40°F (-40°C) to 300°F (150°C)
Weight:	TBC

OPTIONS

- Neck Ring Height:
4-12" (100-300mm)
- QTY Venting Ferrules:
0-3 FERRULES, 3" ACME BEVEL SEAT

MARKINGS

The following is laser printed on the dustcover hinge bracket:

- Swift logo
- Assembly & part number
- Serial number
- MAWP
- Material traceability
- Reference to standards

SUB-ASSEMBLIES

- Dustcover assembly
- Inner dish assembly
- Straight neckring and stud platform assembly
- Hinge pin assembly
- Seals / grommets supplied seperately

MATERIAL

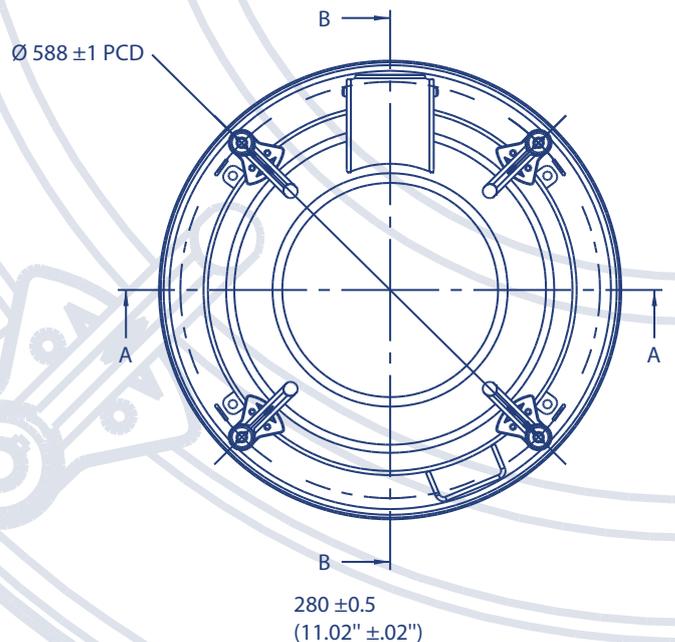
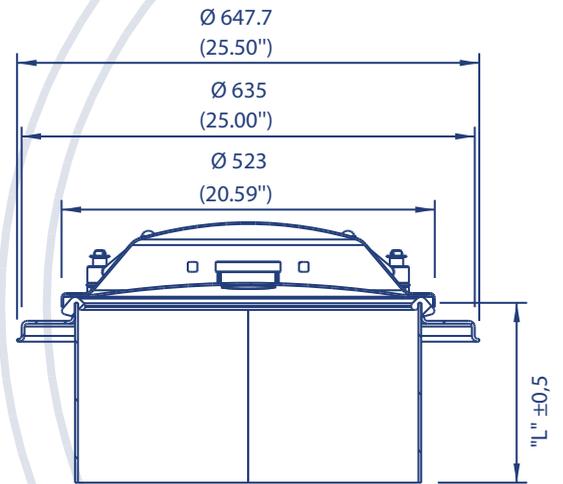
- Stainless Steel 304/L

DESIGN CODES AND APPROVALS

- ASME VIII Div.1
- 3A Sanitary 84-02 - PAP Wet Applications

FINISH

Polished to Ra<32 (<0.8µm)



19" 5-Point 3A Sanitary Manlid Assembly

DESCRIPTION

Manlid:

3A Sanitary 19" 5 point Personnel access port for wet applications.

SPECIFICATIONS

MAWP:	5 psi (0.34 bar)
Test Pressure:	TBC
Design Temp:	40°F (-40°C) to 300°F (150°C)
Weight:	TBC

OPTIONS

- **Neck Ring Height:**
4-12" (100-300mm)
- **QTY Venting Ferrules:**
0-3 FERRULES, 3" ACME BEVEL SEAT

MARKINGS

The following is laser printed on the dustcover hinge bracket:

- Swift logo
- Assembly & part number
- Serial number
- MAWP
- Material traceability
- Reference to standards

SUB-ASSEMBLIES

- Dustcover assembly
- Inner dish assembly
- Straight neckring and stud platform assembly
- Hinge pin assembly
- Seals / grommets supplied seperately

MATERIAL

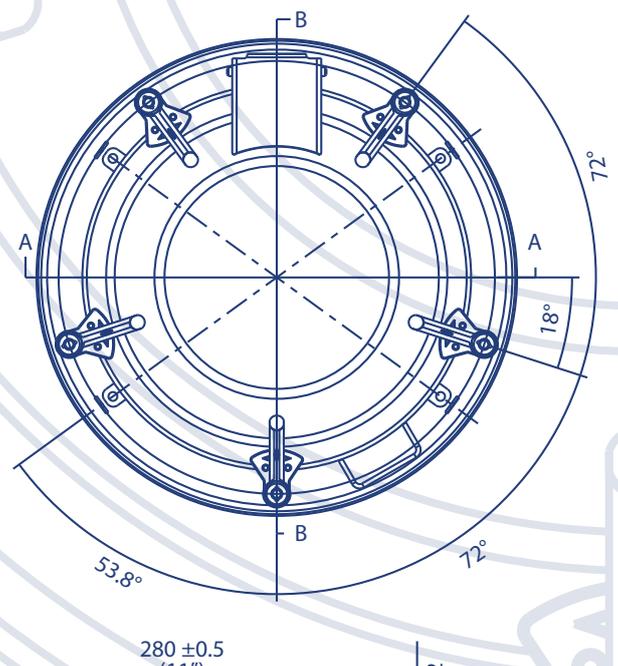
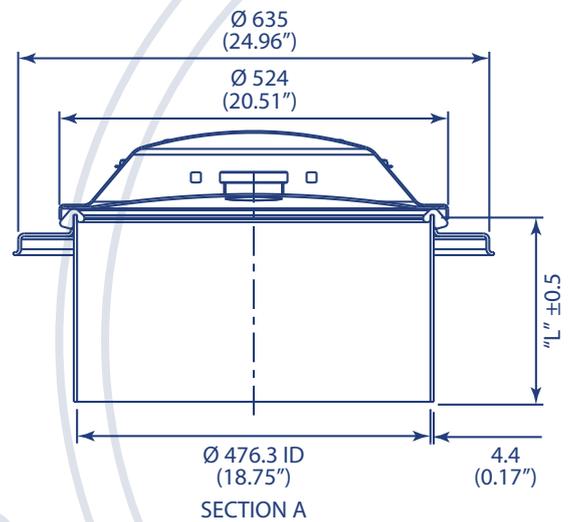
- Stainless Steel 304/L

DESIGN CODES AND APPROVALS

- ASME VIII Div.1
- 3A Sanitary 84-02 - PAP Wet Applications

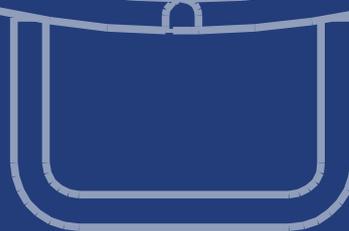
FINISH

Polished to Ra<32 (<0.8µm)





Food & Beverage Industry



500mm 4-Point, 1 Bar, Domed, Foodgrade Manlid Assembly

DESCRIPTION

Manlid:

4-point swing bolt bracketed, domed manlid cover.

Neck and Compensating Ring Assembly:

Consists of straight neck ring and 4 swingbolt brackets.

SPECIFICATIONS

MAWP:	3 bar (43.5 PSI)
External Pressure:	1 bar (14.5 psi)
Test Pressure:	4.94 bar (71.6 PSI)
Design Temp:	-20°C (-4°F) to 150°C (302°F)
Opening angle:	120°
Weight:	34 kg

OPTIONS

- 80 mm up to 300 mm neck ring height

MARKINGS

The following is pin-stamped on the assembly:

- Swift logo
- Assembly & part number
- Serial number
- MAWP / Test Pressures
- Material traceability
- Other markings specified by the customer (eg. corporate branding).

SUB-ASSEMBLIES

- Lid assembly
- Straight neckring assembly
- Swing bolt & hinge pin assemblies
- Food grade silicone gasket

MATERIAL

- The contact parts are manufactured in Stainless Steel 316/316L & 1.4404/1.4401.
- Non-contact parts are manufactured in Stainless Steel 304.

DESIGN CODES AND APPROVALS

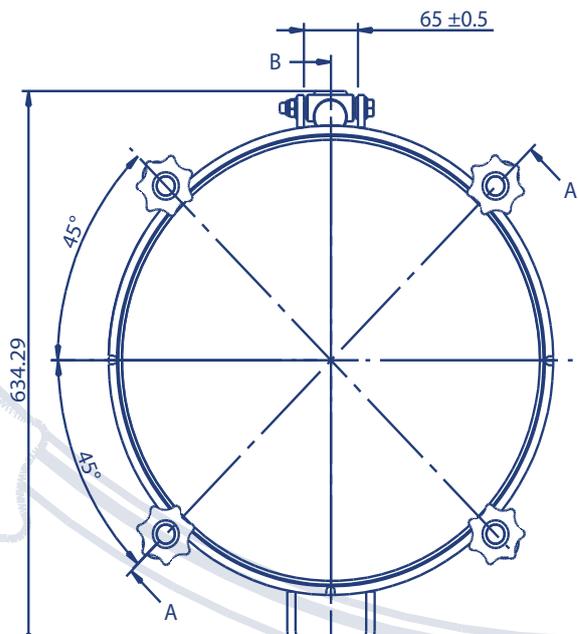
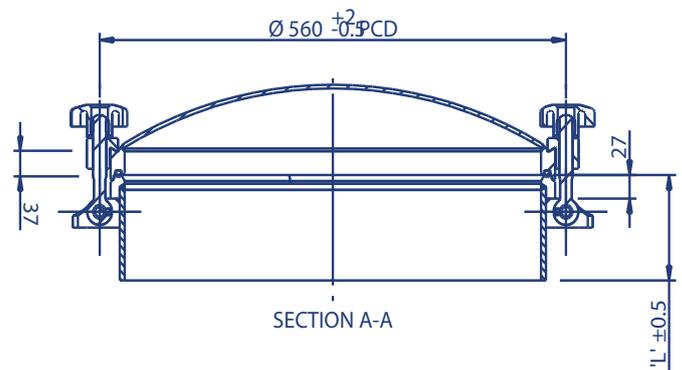
- Designed in accordance with PED
- EN 13445-3
- ASME VIII Div. 1
- Bureau Veritas

TORQUE PROCEDURE

- Place bolts in position.
- Start next to the handle - tighten in a crossover/clockwise sequence.
- Torque until sealing has been achieved.

FINISH

Assemblies are mechanically polished and pickled with the further option of electro-polishing, surface roughness (Ra) ≤ 0.8µm.



600mm 6-Point, 1 Bar, Domed, Foodgrade Manlid Assembly

DESCRIPTION

Manlid:

6-point swing bolt bracketed, domed manlid cover.

Neck and Compensating Ring Assembly:

Consists of straight neck ring and 6 swingbolt brackets.

SPECIFICATIONS

MAWP:	3 bar (43.5 PSI)
External Pressure:	1 bar (14.5 psi)
Test Pressure:	4.94 bar (71.6 PSI)
Design Temp:	-20°C (-4°F) to 150°C (302°F)
Opening angle:	120°
Weight:	41 kg

OPTIONS

- 80 mm up to 300 mm neck ring height

MARKINGS

The following is pin-stamped on the assembly:

- Swift logo
- Assembly & part number
- Serial number
- MAWP / Test Pressures
- Material traceability
- Other markings specified by the customer (eg. corporate branding).

SUB-ASSEMBLIES

- Lid assembly
- Straight neckring assembly
- Swing bolt & hinge pin assemblies
- Food grade silicone gasket

MATERIAL

- The contact parts are manufactured in Stainless Steel 316/316L & 1.4404/1.4401.
- Non-contact parts are manufactured in Stainless Steel 304.

DESIGN CODES AND APPROVALS

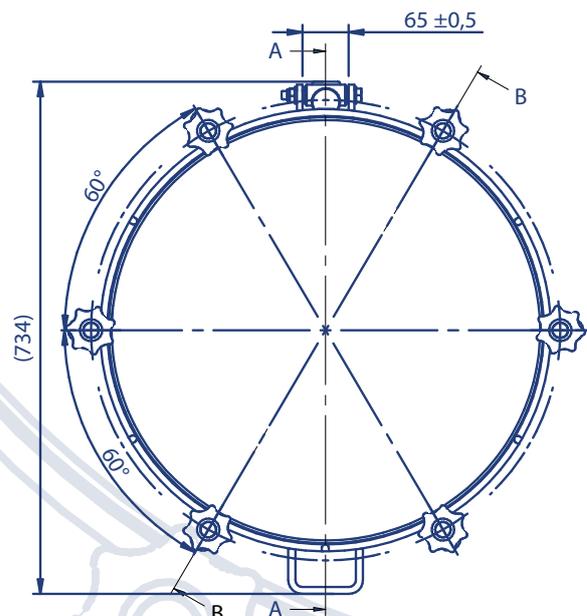
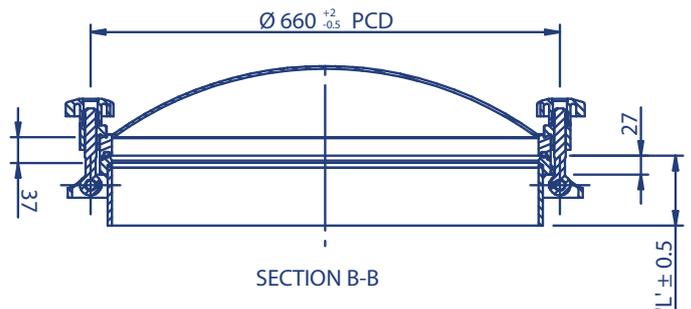
- Designed in accordance with PED
- EN 13445-3
- ASME VIII Div. 1
- Bureau Veritas

TORQUE PROCEDURE

- Place bolts in position.
- Start next to the handle - tighten in a crossover/clockwise sequence.
- Torque until sealing has been achieved.

FINISH

Assemblies are mechanically polished and pickled with the further option of electro-polishing, surface roughness (Ra) $\leq 0.8\mu\text{m}$.



400mm 4-Point, Pressureless, Sight-Glass Foodgrade Manlid Assembly

DESCRIPTION

Manlid:

4-point swing bolt bracketed, sight-glass manlid cover.

Neck Ring Assembly:

Consists of straight neck ring with sealing face and 4 swing bolts.

SPECIFICATIONS

Pressure rating:	Pressureless - atmospheric
Opening angle:	120°
Weight:	28.5 kg

OPTIONS

- 80 mm up to 300 mm neck ring height.

MARKINGS

The following is laser etched on the assembly:

- Swift logo.
- Assembly & part number.
- Serial number.
- Material traceability.
- Other markings specified by the customer (eg. corporate branding).

SUB-ASSEMBLIES

- Lid assembly.
- Straight neckring assembly.
- Swing bolt & hinge pin assemblies.
- Food grade silicone gasket.

MATERIAL

- The contact parts are manufactured in Stainless Steel 316/316L & 1.4404/1.4401.
- Non-contact parts are manufactured in Stainless Steel 304. Sight-glass manufactured in clear foodgrade borosilicate glass.

DESIGN CODES AND APPROVALS

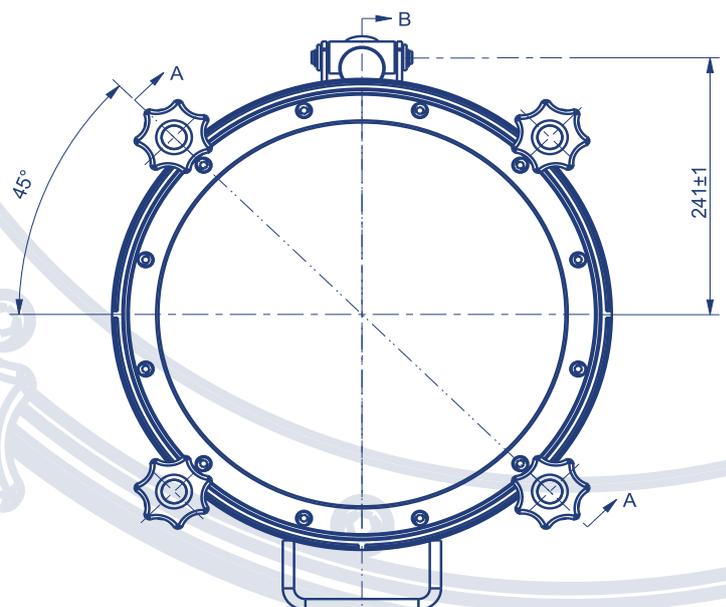
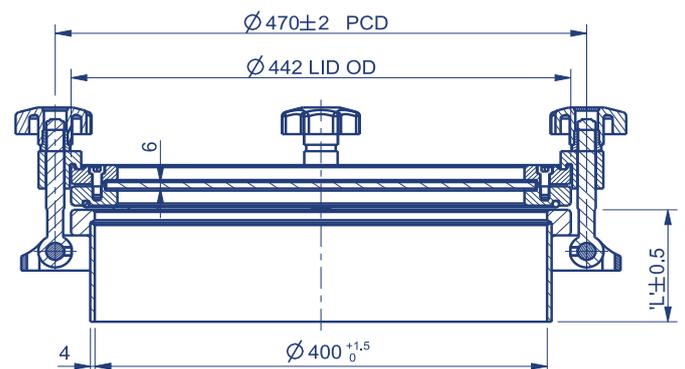
- Designed in accordance with PED.
- Bureau Veritas

TORQUE PROCEDURE

- Place bolts in position.
- Start next to the handle - tighten in a crossover/clock-wise sequence.
- Torque until sealing has been achieved.

FINISH

Assemblies are mechanically polished and pickled with the further option of electro-polishing, surface roughness (Ra) $\leq 0.8\mu\text{m}$.



455,4mm 6-Point, Low Profile Manlid Assembly

DESCRIPTION

Manlid:

6-point swing bolt bracketed domed manlid.

Neck and Compensating Ring Assembly:

Consists of a straight neck ring, with 6 swing bolts.

SPECIFICATIONS

MAWP:	4 bar (58 psi)
Test Pressure:	6 bar (87 psi)
Design Temp:	-40°C (-40°F) to 180°C (356°F)
Weight:	26 kg ref.

OPTIONS

- Straight neck or compensated version.
- 100mm up to 250 mm neck ring height.
- Tank radii from 850 mm to 1220 mm.
- Insulated / Double skin lid.
- Protruding/Non-protruding neck ring.
- Option of brass/stainless steel wing/hex nuts.

MARKINGS

The following is pin-stamped on the assembly:

- Swift logo.
- Assembly & part number.
- Serial number.
- MAWP/Test pressure.
- Other markings specified by the customer.

SUB-ASSEMBLIES

- Lid assembly.
- Neckring assembly.
- Swing bolt & hinge pin assemblies.
- Seal (supplied separately).

MATERIAL

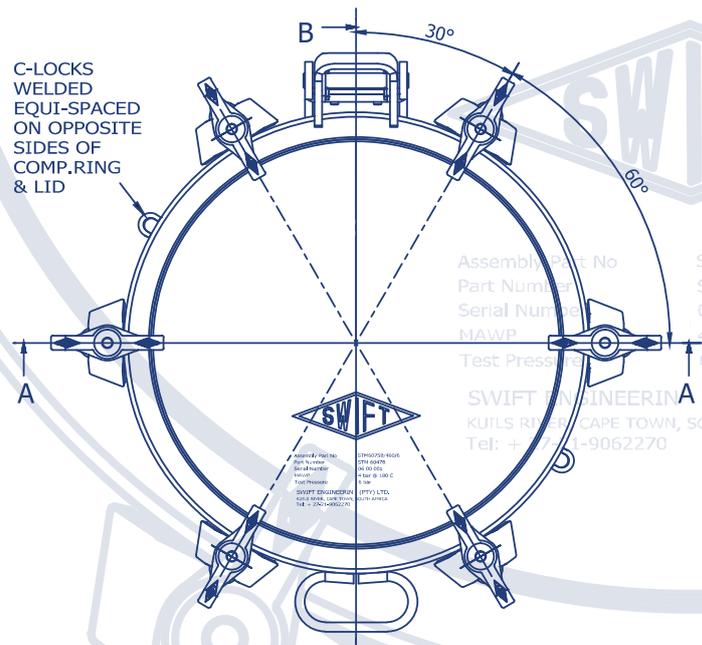
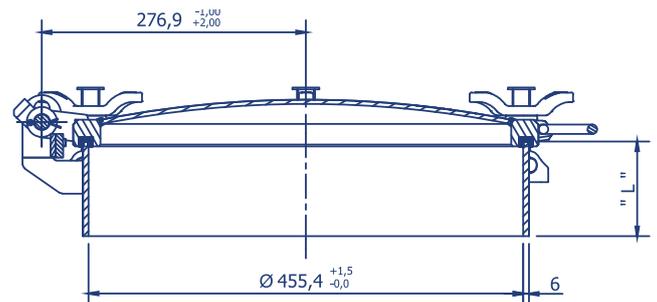
- The contact parts are manufactured in Stainless Steel 316 and 316L.
- Non-contact parts in Stainless Steel 304.
- The 4.4mm domed dish in SANS 50028-7 W1.4402 CR.

DESIGN CODES AND APPROVALS

- ASME VIII Div. 1
- RID/ADR
- IMDG
- BUREAU VERITAS

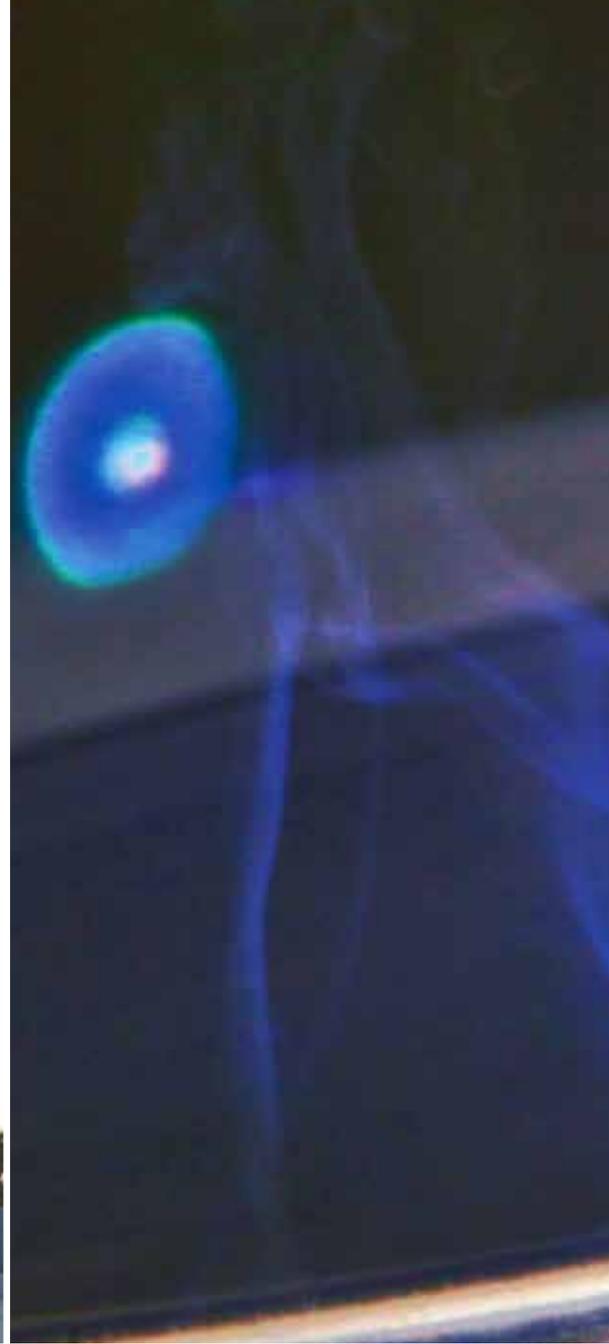
FINISH

Lids are electro-polished and neckrings are blasted and pickled.









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