Marine Locks and Access Control Systems

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Secure at Sea

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1. Marine Locks

53-Series Stainless Steel Lock Cases

Parts

All VingCard Elsafe stainless steel locks are symmetrical and have identical dimensions. This complete standardization allows for series cutting and drilling doors and frames before the type of lock, handles and escutcheons have been decided upon. An additional advantage is that lock types can be exchanged without changing the cutting and drilling.

Functionally secure patented cylinder

The TrioVing cylinder consists of 2 main parts. The 2 parts are fitted separately, which simplifies the replacement of cylinders. Furthermore, 2-part cylinders can be more easily fitted to thick doors and rebated doors.

Heavy-duty bolt

Just a quarter turn of the thumb turn or key is sufficient to bring the heavy-duty bolt forward.

Drilling

Symmetrical cutting

VingCard Elsafe standard is based on symmetrical cutting and drilling. Since the cut mortice is centrally located in the door edge and the middle of the frame, it is not necessary to manufacture special right-hand and left-hand opening doors. All doors and frames can be cut and drilled identically.

Common striker plate

The dead bolt and latch bolt are symmetrically located and as close as possible to the horizontal centre line of the lock case. The advantage of this is one common striker plate with a short, curved lip, reversible for right-hand or left-hand installation (but this does not apply for lock case 5382/8).

Robust door handle fastening

VingCard Elsafe's stainless steel lock cases are drilled for the fitting of roses with through fixing screws. The complete range of TrioVing and VingCard roses and escutcheons - round and long - are standardized for installation with through fixing screws. The dimension of all roses is suitable to cover a 40 mm hole.
53-Series Stainless Steel Lock Cases

Lock case 5312/8
Lock case 5316/8
Lock case 5320/8
Lock case 5322/8

Lock case 5332/8
Lock case 5336/8
Lock case 5341/8
Lock case 5382/8
Lock case 5312/8 - Cylinder Lock case for Heavy-Duty Doors

TO ORDER you must specify:
- lock case number
- direction of opening, i.e. right or left
- single pack or industrial pack of 20 pcs

Application:
- meets all fire class requirements
- suitable for corrosive environments
- suitable for heavy exterior and interior doors
- reinforced latch bolt
- dead bolt

Operation:
- reinforced latch bolt operated by handles
- dead bolt operated by key or thumb turn
- double cylinder can be fitted

Materials and Finish:
- lock case - stainless steel
- striker plate - stainless steel
- handle hub and latch bolt - stainless steel
- 8 mm handle hub
- weighs 602 g

Delivery:
- lock case only
- striker plate is optional
- accessories must be ordered separately

Spare Parts:
1. Latch bolt retracting arm
2. Latch bolt
3. Dead bolt
4. Cylinder fixing screw
5. Pin spring
6. Handle hub spring
7. Spring guide
8. Handle hub 8 mm
9. Latch bolt spring
10. Cylinder hub spring
11. Cylinder hub
12. Screw guide
Lock case 5312/8/5390 - Surface Mounted Cylinder Lock case

TO ORDER you must specify:
- lock case number
- direction of opening, i.e. right or left

Application:
- meets all fire class requirements
- suitable for corrosive environments
- suitable for heavy, steel doors
- surface mounted
- reinforced latch bolt
- dead bolt

Operation:
- reinforced latch bolt operated by handles
- dead bolt operated by key or thumb turn
- double cylinder can be fitted

Materials and Finish:
- lock case and external lock casing - stainless steel
- striker plate - stainless steel
- handle hub and latch bolt - stainless steel
- 8 mm handle hub
- weighs 1.374 kg

Delivery:
- lock case and external lock casing
- cylinder fastening screws
- pair of handle roses 7509
- 4 machine screws 6 x 35 mm
- striker plate is optional
- accessories must be ordered separately

Spare Parts:
- 5390 external casing for Lock case 5312/8
  Part #: 4822561
Lock case 5316/8 - Cylinder Lock case

TO ORDER you must specify:

- lock case number
- direction of opening, i.e. right or left
- single pack or industrial pack of 20 pcs

Application:

- meets all fire class requirements
- suitable for corrosive environments
- antifriction latch
- dead bolt

Operation:

- antifriction latch operated by handles
- dead bolt operated by key or thumb turn
- antifriction latch bolt prevents vibrating
- double cylinder can be fitted

Materials and Finish:

- lock case - stainless steel
- striker plate - stainless steel
- handle hub and latch bolt - stainless steel
- 8 mm handle hub
- weighs 596 g

Delivery:

- lock case only
- striker plate is optional
- accessories must be ordered separately

Spare Parts:

1. Latch bolt retracting arm
2. Latch bolt R/L
3. Dead bolt
4. Cylinder fixing screw
5. Pin spring
6. Handle hub spring
7. Spring guide
8. Handle hub 8 mm
9. Latch bolt spring
10. Cylinder hub spring
11. Cylinder hub
12. Screw guide
Lock case 5316/8 - Bathroom Door Lock case

TO ORDER you must specify:

- lock case number
- direction of opening, i.e. right or left
- single pack or industrial pack of 20 pcs

Application:

- meets all fire class requirements
- for toilet and bathroom doors
- suitable for corrosive environments
- antifriction latch
- dead bolt
- used with long escutcheon 7718 or handle rose 7509 and indicator rose 7562

Operation:

- antifriction latch operated by handles
- dead bolt operated by thumb turn
- antifriction latch bolt prevents vibrating

Materials and Finish:

- lock case - stainless steel
- striker plate - stainless steel
- handle hub and latch bolt - stainless steel
- 8 mm handle hub
- weighs 596 g

Delivery:

- lock case only
- striker plate is optional
- accessories must be ordered separately

Spare Parts:

1. Latch bolt retracting arm
2. Latch bolt R/L
3. Dead bolt
4. Cylinder fixing screw
5. Pin spring
6. Handle hub spring
7. Spring guide
8. Handle hub 8 mm
9. Latch bolt spring
10. Cylinder hub spring
11. Cylinder hub
12. Screw guide

NB: red adaptor, set of 10 pcs, available on request. Item # 4822229
Lock case 5320/8 - Cylinder Lock case with 20 mm Latch Bolt

TO ORDER you must specify:

- lock case number
- direction of opening, i.e. right or left
- single pack or industrial pack of 20 pcs

Application:

- meets all fire class requirements
- suitable for corrosive environments
- suitable for heavy exterior and interior doors
- reinforced 20 mm latch bolt to meet USCG standards
- dead bolt

Operation:

- reinforced spring loaded latch bolt operated by handles
- dead bolt operated by key or thumb turn
- double cylinder can be fitted
- standard drilling in door frame without centre partition to accommodate both the spring loaded latch bolt and dead bolt

Materials and Finish:

- lock case - stainless steel
- handle hub and latch bolt - stainless steel
- 8 mm handle hub
- weighs 602 g

Delivery:

- lock case only
- striker plate must be specially ordered - the standard 53-Series striker plate cannot be used
- accessories must be ordered separately

Spare Parts:

1. Latch bolt retracting arm
2. Latch bolt
3. Dead bolt
4. Cylinder fixing screw
5. Pin spring
6. Handle hub spring
7. Spring guide
8. Handle hub 8 mm
9. Latch bolt spring
10. Cylinder hub spring
11. Cylinder hub
12. Screw guide
Lock case 5322 - Double Latch Lock case

TO ORDER you must specify:

- lock case number
- direction of opening, i.e. right or left
- single pack or industrial pack of 20 pcs

Application:

- meets all fire class requirements
- for doors where automatic dead latching is important
- very suitable for emergency exits
- recommended in combination with door closer and electric striker plate

Operation:

- double antifriction latch with dead latch
- operated by key or thumb turn
- double cylinder can be fitted

Materials and Finish:

- lock case - stainless steel
- 8 mm handle hub
- weighs 610 g

Delivery:

- lock case only
- accessories must be ordered separately

Spare Parts:

1. Latch bolt retracting arm
2. Latch bolt R/L
3. Latch guard
4. Latch bolt R
5. Latch bolt L
6. Latch handle spring
7. Handle hub spring
8. Spring guide
9. Handle hub 8 mm
10. Latch bolt spring
11. Dead latch spring
12. Cylinder hub
13. Cylinder fixing screw
14. Screw guide
Lock case 5332/8 - Dead Latch Lock case

TO ORDER you must specify:

- lock case number
- direction of opening, i.e. right or left
- single pack or industrial pack of 20 pcs

Application:

- meets all fire class requirements
- suitable for corrosive environments
- automatic dead latching
- recommended in combination with door closer and electric striker plate

Operation:

- dead bolt operated by key or thumb turn
- double cylinder can be fitted

Materials and Finish:

- lock case - stainless steel
- striker plate - stainless steel
- weighs 469 g

Delivery:

- lock case only
- striker plate is optional
- accessories must be ordered separately

Spare Parts:

1. Latch guard
2. Latch handle spring
3. Latch bolt R
4. Latch bolt L
5. Cylinder fixing screw
6. Latch guard spring
7. Dead latch spring
8. Cylinder hub
9. Screw guide
Lock case 5336/8 - Latch Lock case

TO ORDER you must specify:

- lock case number
- direction of opening, i.e. right or left
- single pack or industrial pack of 20 pcs

Application:

- meets all fire class requirements
- suitable for corrosive environments
- antifriction latch
- no locking mechanism

Operation:

- operated by handles
- antifriction latch bolt prevents vibrating

Materials and Finish:

- lock case - stainless steel
- striker plate - stainless steel
- handle hub and latch bolt - stainless steel
- 8 mm handle hub
- weighs 472 g

Delivery:

- lock case only
- striker plate is optional
- accessories must be ordered separately

Spare Parts:

1. Latch bolt retracting arm
2. Latch bolt R/L
3. Pin spring
4. Handle hub spring
5. Spring guide
6. Handle hub 8 mm
7. Latch bolt spring
Lock case 5341/8 - Cylinder Lock case with Dead Bolt

TO ORDER you must specify:

- lock case number
- single pack or industrial pack of 20 pcs

Application:

- meets all fire class requirements
- suitable for corrosive environments
- dead bolt function only

Operation:

- dead bolt operated by key or thumb turn
- double cylinder can be fitted

Materials and Finish:

- lock case - stainless steel
- striker plate - stainless steel
- weighs 467 g

Delivery:

- lock case only
- striker plate is optional
- accessories must be ordered separately

Spare Parts:

1. Dead bolt
2. Cylinder fixing screw
3. Cylinder hub spring
4. Cylinder hub
5. Screw guide
Lock case 5341/8/5390 - Surface Mounted Cylinder Lock case

TO ORDER you must specify:
  • lock case number

Application:
  • meets all fire class requirements
  • suitable for corrosive environments
  • surface mounted
  • no handle function

Operation:
  • dead bolt operated by key or thumb turn
  • double cylinder can be fitted

Materials and Finish:
  • lock case and external lock casing - stainless steel
  • striker plate - stainless steel
  • weighs 1.236 kg

Delivery:
  • lock case and external lock casing
  • cylinder fastening screws
  • 4 machine screws 6 x 35 mm
  • striker plate is optional
  • accessories must be ordered separately

Spare Parts:
  • 5390 external casing for Lock case 5341/8
    Part #: 4822562
Lock case 5382/8 - Cylinder Lock case with Two Hooks

TO ORDER you must specify:

- lock case number
- single pack or industrial pack of 20 pcs

Application:

- meets all fire class requirements
- suitable for corrosive environments
- suitable for sliding doors

Operation:

- cylinder lock case with 2 hooks
- lower hook operated by key or thumb turn
- upper hook operated by handles
- double cylinder can be fitted

Materials and Finish:

- lock case - stainless steel
- striker plate - stainless steel
- latch hook and hook for lower dead bolt - stainless steel
- 8 mm handle hub
- weighs 613 g

Delivery:

- lock case only
- striker plate is optional
- accessories must be ordered separately

Spare Parts:

1. Latch hook
2. Lower dead bolt
3. Hook for lower dead bolt
4. Pin for lower hook
5. Cylinder fixing screw
6. Pin spring
7. Handle hub spring
8. Spring guide
9. Handle hub 8 mm
10. Spring for upper hook
11. Cylinder hub spring
12. Cylinder hub
13. Screw guide
## Application Table for 53-Series Stainless Steel Lock cases

<table>
<thead>
<tr>
<th>Electric Strike Plate</th>
<th>Solid 60</th>
<th>Options</th>
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2. Steel Locks

50-Series, Rim Cylinder and Electromechanical Lock cases

50-Series Narrow Profile Lock cases
TrioVing’s narrow profile cylinder lock cases. The lock case may be delivered with either a 25 mm or 35 mm backset (measured from front of lock case to centre of cylinder). The lock cases are constructed for doors with narrow frames, made of wood, steel or aluminium.

Spare parts are no longer available for the 50-Series. Only complete lock cases are now supplied.

Rim Cylinder Lock cases
TrioVing have replaced their rim cylinder lock cases 1183 and 1186 with Rim Cylinder Latch Lock case UK1601 and Rim Cylinder Dead Bolt Lock case UK2622.

Electromechanical Locking
VingCard Marine supply motor and solenoid locks by Abloy and electric striker plates by Solid and HES.
Lock case 5016 - Narrow Profile Cylinder Lock case

TO ORDER you must specify:
- lock case number
- direction of opening, i.e. right or left
- size of backset, i.e. 25 or 35 mm

Application:
- for narrow profile doors
- suitable for wood, steel or aluminium doors
- antifriction latch bolt and dead bolt

Operation:
- dead bolt operated by key or thumb turn
- antifriction latch bolt prevents vibrating
- double cylinder can be fitted

Materials and Finish:
- lock case - steel/chrome
- striker plate - steel/chrome
- 8 mm handle hub
- weighs 620 g

Delivery:
- available with 2 backsets: 25 or 35 mm
- includes striker plate
- includes cylinder fastening screws
- accessories must be ordered separately
Lock case 5018 - Narrow Profile Dead Bolt Cylinder Lock case

TO ORDER you must specify:
- lock case number
- size of backset, i.e. 25 or 35 mm

Application:
- for narrow profile doors
- suitable for wood, steel or aluminium doors
- dead bolt function only

Operation:
- dead bolt operated by key or thumb turn
- double cylinder can be fitted

Materials and Finish:
- lock case - steel/chrome
- striker plate - steel/chrome
- weighs 560 g

Delivery:
- available with 2 backsets: 25 or 35 mm
- includes striker plate
- includes cylinder fastening screws
- accessories must be ordered separately
Lock case 5032 - Narrow Profile Cylinder Lock case

TO ORDER you must specify:
- lock case number
- direction of opening, i.e. right or left
- size of backset, i.e. 25 or 35 mm

Application:
- for narrow profile doors
- suitable for wood, steel or aluminium doors
- recommended in combination with door closer and electric striker plate

Operation:
- automatic dead latching (this function can be removed)
- if the door is unlocked at certain times, the security bolt is locked into the lock case and held in place by the snib

Materials and Finish:
- lock case - steel/chrome
- striker plate - steel/chrome
- weighs 560 g

Delivery:
- available with 2 backsets: 25 or 35 mm
- includes striker plate
- includes cylinder fastening screws
- accessories must be ordered separately
Lock case 5049 - Narrow Profile Cylinder Lock case with Hook

TO ORDER you must specify:
- lock case number
- size of backset, i.e. 25 or 35 mm

Application:
- for narrow profile doors
- suitable for wood, steel or aluminium doors
- suitable for sliding doors

Operation:
- the hook bolt is operated by key or thumb turn

Materials and Finish:
- lock case - steel/chrome
- striker plate - steel/chrome
- hook bolt - tempered steel core
- weighs 760 g

Delivery:
- available with 2 backsets: 25 or 35 mm
- includes striker plate
- includes cylinder fastening screws
- accessories must be ordered separately
<table>
<thead>
<tr>
<th>Fittings/Lock Cases</th>
<th>Cylinders and Thumb turn</th>
<th>Long Escutcheons and Handles</th>
<th>Electric Striker Plate</th>
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<td>SK6487/ SK6488</td>
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</table>
Lock case UK1601 - Rim Cylinder Latch Lock case (replaces Lock case 1183)
Lock case UK2622 - Rim Cylinder Dead Bolt Lock case (replaces Lock case 1186)

TO ORDER you must specify:
- lock case number, i.e. UK1601 or UK2622
- direction of opening, i.e. right or left
- with or without cylinder

Application:
- UK1601 is a rim cylinder lock case for lightweight doors
- UK2622 is a rim cylinder dead bolt lock case for lightweight doors

Operation:
- UK1601 is operated by key or thumb turn
- UK2622 may be dead locked by turning the key or thumb turn backwards
- UK2622 is operated by key from the outside and thumb turn from the inside

Materials and Finish:
- lock case: zamak/enamelled
- striker plate: steel/chrome
- black lacquered finish
- cylinder 5532 ESP R: satin chrome or polished chrome (the same as cylinder 5532 but with a new follower)
- weighs 566 g

Delivery:
- lock case complete with striker plate
- fixing screws
- cylinder is optional and must be ordered separately
Motor Lock EL648 and EL654 with Hook Bolt by Abloy

TO ORDER you must specify:
• lock type
• size of backset: 25 or 35 mm

Application:
• EL648 and EL654 are used as high security auxiliary locks in fire rated doors
• specially suited for use in sliding doors as they can be installed in door frame or door leaf
• for narrow profile doors
• EL648 and EL654 can be controlled by a variety of electrical impulse generating equipment, e.g. card reader, keypad or timer

Operation:
• bolt is retracted and thrown by motor
• striker plate EA300 with integral door contact must be used with the lock
• EL648 can be configured to fail locked or fail unlocked mode in the case of power failure (requires a back-up card connected to the EA460 control unit)
• EL654 enables data communication between lock case and control unit with EA470

Technical Information:
• operating voltage: 12-24 V DC + 15%, stab.
  12 V AC (-10%/+50%) RMS
• current - normal: 150 mA
  idle: 70 mA
  max.: 750 mA
• adjustable delay: 2 to 15 sec
• temperature range: -20 °C - +60 °C
• hook bolt: 22 mm
• backset: 25 or 35 mm
• forend: 25 mm

Weight:
• EL648/25 = 1.755 kg
• EL648/35 = 1.866 kg
• EL654/25 = 2.887 kg
• EL654/35 = 1.814 kg

Materials and Finish:
• forend: chrome plated

Delivery:
• lock case
• control unit
• striker plate EA300 with door contact
• connection plugs
• fixing screws
• lock case manual
Solenoid Lock EL580 with Handle Control by Abloy

TO ORDER you must specify:
- lock type

Application:
- suitable for interior or exterior doors
- can be used in fire rated doors
- suitable for use in exit doors as the inside handle/panic bar is free for egress at all times
- always automatically deadlocked when the door is closed
- can be controlled by a variety of electrical impulse generating equipment, e.g. card reader, keypad or timer

Operation:
- handle controlled lock can be set to function as fail locked or fail unlocked
- the lock is automatically deadlocked when the door is closed
- the outside handle is electrically controlled
- the lock can always be opened from inside by handle or by panic bar

Technical Information:
- operating voltage: 12-24 V DC (-10%/+ 15%, stab.)
- current - max.: 0.55A (12 V DC)
  - idle: 0.24A (12 V DC)
  - max.: 0.27A (24V DC)
  - idle: 0.11A (24V DC)
- temperature range: -20 °C - +60 °C
- bolt throw: 14 or 20 mm
- backset: 50 or 70 mm
- forend: 22 mm
- spindle: 8 mm
- weighs 780 g

Materials and Finish:
- forend: chrome plated

Delivery:
- lock case
- connection plugs
- fixing screws
- split spindle
- lock case manual
Accessories for Motor and Solenoid Locks by Abloy

Lead Covers EA280/EA281

Application:
- the Abloy lead cover is designed to ensure the unbroken transfer of cable between the door and the frame
- the maximum diameter of the cable is 7.5 mm and it is recommended to use multicore cable because of its increased bending strength
- when the opening angle of the door is more than 120° or the distance between the hinge and the door frame is more than 20 mm, the long lead cover EA281 should be used

Drilling and Fitting Instructions:
- the Abloy lead cover is usually fitted in the door but when there is not enough space available, it can be fitted to the frame as well
- before fitting, the cable must be passed through the door
- the hole for the cable must be wide enough to allow some movement for the wires

Materials and Finish:
- housing: steel
- flexible tube: steel
- polished chrome

CMP Power Supply by Powermec

Adjustable 36W power supply with display:
- easy voltage adjustment with potentiometer
- 5-15 VDC or 12-30 VDC
- switching, wide input voltage range
- short circuit/overload protection
- international approvals

Technical Data:
Input:
- input voltage: 90-260VAC
- frequency: 47-63 Hz
- input current max: 0.6A/230VAC
- inrush current max: 60A

Output:
- output voltage: 12.0 - 30.0 VDC (type 10014016) or 5.0 - 15.0 VDC (type 10014017)
- output current: max 3.0 A (type 10014016) or 7.2 A (type 10014017)
- line regulation +/-20%: less than +/-0.5%
- load regulation 0-100% load: less than +/-1%
- ripple and noise: max 300mVp-p
- efficiency: greater than 84%
- hold up time: 16mS vid 115VAC
- temperature range: 0 °C ... + 40 °C
- size: 170 x 80 x 50 mm
- weight: 635 g
Electric Striker Plate 60 by Solid

TO ORDER you must specify:
- striker type
- front plate type

Application:
- for use with TrioVing locks with a triple latch bolt
- mounted on doors with no particular requirement for a high security lock
- meets requirements for mounting on fire doors with double latch locks
- can also be used with Assa’s modul and small profile locks (but accurate height positioning is required so the latchbolt guard is on the bridge between the openings)

Operation:
- model 60 - normal function
- model 560 - normal function and microswitch/latch contact for indicating door closed and locked
- model 61 - opposite function; for emergency doors
- model 561 - opposite function and microswitch/latch contact for indicating door closed and locked; for emergency exit doors

Technical Information:
- operating voltage: 8 V DC = 400 mA, 12 V DC = 230 mA, 24 V DC = 140 mA
- models for 48 V can be ordered
- electrical installation:
  1. if a tone is wished on impulse opening a 12 V or 24 V tone is connected
  2. if an AC impulse is required on a DC impulse striker plate, a current converter B40c1500 or similar is required
  3. if the striker plate is electronically controlled a 1N4003 lamp should be mounted to protect electronics
- weight: 60 + 602 = 354 g
- weight: 60 + 603 = 372 g

Assembly Front Plate:
- 601 - for wooden doors with standard mortise for striker plate. Specify left or right
- 602 - for steel and aluminium doors. Specify left or right
- 603 - specially constructed for TrioVing lock case 5032. Specify left or right
Electric Striker Plate 7000 Series by HES

TO ORDER you must specify:

- striker type
- front plate type

Application:
- the 7000 series has a modular design to accommodate both cylindrical and rim exit lock sets
- the 7000 series will accommodate various types of latch bolts from 15.88 mm to 19.05 mm
- the unique design of the keeper module allows the unit to operate under excessive door loading (approximately 13 kg)

Operation:
- tamper resistant - heavy duty construction
- field reversible fail secure/fail safe
- non-handed
- internally mounted solenoid

Technical Information:
- 791 - for use with cylindrical lock sets up to 15.88 mm throw - metal frames
- 792 - for use with cylindrical lock sets up to 15.88 mm throw - metal or wood frames
- striker and front plate weigh ca 800 g

Materials and Finish:
- satin stainless steel (standard)
3. Card Operated Locks

Signature RFID by VingCard

TO ORDER you must specify:

- lock type
- ANSI or EURO
- system voltage: 4.5 V (3 batteries)
- direction of opening, NB: new description: LH (RX), RHR (RO), RH (LX) or LHR (LO)
- finish of RFID reader, handles and cylinder
- door thickness: A and B measurements

Application:

- radio frequency identification (RFID) lock
- Signature RFID offers the latest RFID technology with the most flexible platform for future applications
- UL-fire listed for use on fire doors
- ergonomic design
- NFC technology: all RFID locks are NFC compatible

Operation:

- operated by standard AA-batteries
- stand alone electronic lock with RFID technology
- single user system with one check-in station, multi user system with multiple check-in stations or system interfaced to ship’s own PMS system enabling the issuing of keycards through the ship’s own computer
- no need to insert the keycard ensures ease of use
- anti-cloning technology for all passenger and crew cards
- locks are equipped with an emergency cylinder for easy access to cabins in an evacuation situation
- auto deadbolt option for enhanced security

Materials and Finish:

- lock case: steel
- striker plate: steel
- RFID reader: polycarbonate
- handle: solid brass
- cylinder: solid brass
- RFID reader: black, red, orange, green and blue
- handle/cylinder: satin chrome, polished chrome, satin brass and polished brass
- weight: 2.8 kg

Delivery:

- outside reader unit
- inside battery cover
- 2 handles
- lock case: choice of ANSI or EURO
- emergency override cylinder
- striker plate: choice of ANSI or EURO
Signature by VingCard

TO ORDER you must specify:
- lock type
- ANSI or EURO
- system voltage: 4.5 V (3 batteries)
- direction of opening, NB: new description: LH (RX), RHR (RO), RH (LX) or LHR (LO)
- finish of escutcheons/handles
- door thickness: A and B measurements

Application:
- cabin and other B-class door lock
- unlimited flexibility of access control for passenger and crew areas
- UL-fire listed for use on fire doors
- ergonomic design

Operation:
- operated by standard AA-batteries
- available with a magnetic stripe or combo magnetic stripe/smart card reader
- single user system with one check-in station, multi user system with multiple check-in stations or system interfaced to ship’s own PMS system enabling the issuing of keycards through the ship’s own computer
- operates on true time and keycards are issued with specified start and stop times
- crew have their own section or master keycards for access to the cabins
- locks are equipped with an emergency cylinder for easy access to cabins in an evacuation situation
- auto deadbolt option for enhanced security

Materials and Finish:
- lock case: steel
- striker plate: steel
- reader/escutcheon: steel/brass
- handle: solid brass
- cylinder: solid brass
- reader/handle/cylinder: satin chrome, polished chrome, satin brass and polished brass
- weight: 2.8 kg

Delivery:
- outside reader escutcheon
- inside battery cover
- 2 handles
- lock case: choice of ANSI or EURO
- emergency override cylinder
- striker plate: choice of ANSI or EURO
Classic by VingCard

TO ORDER you must specify:

- lock type
- ANSI or EURO
- system voltage: 4.5 V (3 batteries) or 9 V (6 batteries)
- direction of opening, NB: new description: LH (RX), RHR (RO), RH (LX) or LHR (LO)
- finish of escutcheons/handles
- door thickness: A and B measurements

Application:

- cabin and other B-class door lock
- unlimited flexibility of access control for passenger and crew areas
- UL-fire listed for use on fire doors
- A-classified door model available (see page ...)

Operation:

- operated by standard AA-batteries
- available with a magnetic stripe or combo magnetic stripe/smart card reader
- single user system with one check-in station, multi user system with multiple check-in stations or system interfaced to ship’s own computer
- operates on true time and keycards are issued with specified start and stop times
- crew have their own section or master keycards for access to the cabins
- locks are equipped with an emergency cylinder for easy access to cabins in an evacuation situation
- auto deadbolt option for enhanced security

Materials and Finish:

- lock case: steel
- striker plate: steel
- escutcheon: steel/brass
- handle: solid brass
- escutcheon/handle: satin chrome, polished chrome, satin brass and polished brass
- weight: 3.5 kg

Delivery:

- outside escutcheon
- inside escutcheon
- 2 handles
- lock case: choice of ANSI or EURO
- emergency override cylinder
Classic RFID (upgrade) by VingCard

TO ORDER you must specify:
- Classic RFID reader

Application:
- Classic RFID offers the latest Radio Frequency IDentification (RFID) technology and the quickest path to go contactless if you already have a standard Classic by VingCard electronic lock
- is equipped with the most flexible platform for future applications today
- cabin and other B-class door lock
- unlimited flexibility of access control for passenger and crew areas
- UL-fire listed for use on fire doors

Upgrade and Operation:
- upgrading from Classic by VingCard magnetic stripe or combo technology to RFID technology is easily done by adding the Classic RFID reader
- remove the top endcap of Classic lock
- replace with RFID reader
- installation complete
- operated by 3 x AA-batteries
- 3-5 minutes to upgrade the lock
- no disturbance or inconvenience for your passengers
- no need to replace the lock case or handles
- no drilling required
- no downtime in cabin availability

Materials and RFID Specifications:
- RFID reader
- 13.56 MHz technology
- compatible with the following standards: ISO 14.443 A (MIFARE), ISO 14.443 B and ISO 15.693
- compatible with Near Field Communication (NFC) standards
- weight: 3.5 kg

Delivery:
- Classic RFID upgrade reader
Original by VingCard

TO ORDER you must specify:

- lock type
- ANSI or EURO
- direction of opening, NB: new description: LH (RX), RHR (RO), RH (LX) or LHR (LO)
- finish of escutcheons/handles
- door thickness: A and B measurements

Application:

- cabin door lock
- mechanical stand-alone system using prepunched keycards
- UL-fire listed for use on fire doors

Operation:

- the punched keycard contains 2 pieces: a code part and a corresponding key part
- the lock is coded with the code part which remains inside the lock
- the passengers are issued with the key part
- several keycards with the same combination may be issued for each cabin
- to recode, the old code part is removed and replaced by a new one which will invalidate old keycards and the passengers are issued with keycards matching the new combination
- the crew use traditional metal keys to access the cabins

Materials and Finish:

- lock case: steel
- striker plate: steel
- escutcheon: steel
- handle: solid brass
- escutcheon/handle: satin chrome, polished chrome, satin brass and polished brass
- weight: 3.3 kg

Delivery:

- outside escutcheon
- inside escutcheon
- 2 handles
- lock case: choice of ANSI or EURO
- emergency override cylinder
- striker plate: choice of ANSI or EURO

NB: Original by VingCard is discontinued for new projects.
Classic for A-Classified Doors by VingCard
Classic PIN by VingCard

TO ORDER you must specify:

- lock type
- ANSI or EURO
- system voltage: 4.5 V (3 batteries) and/or 9 V (6 batteries) for Classic for A-Classified Doors
- direction of opening, NB: new description: LH (RX), RHR (RO), RH (LX) or LHR (LO)
- finish of escutcheons
- finish of handles (for Classic PIN)
- door thickness: A and B measurements

Application for Classic for A-Classified Doors:
- specially reinforced and certified for all A60 doors
- UL-fire tested and approved
- for increased security, a keypad version is available

Application for Classic PIN:
- flexible card lock/code lock
- for use on doors with restricted access

Operation for Classic A-Classified Doors:
- operated by 3 x AA-batteries
- available with a magnetic stripe or combo magnetic stripe/smart/card reader
- single user system with one check-in station, multi user system with multiple check-in stations or system interfaced to ship's own PMS system enabling the issuing of keycards through the ship's own computer
- operates on true time and keycards are issued with specified start and stop times
- crew have their own section or master keycards for access to the A60 doors
- locks are equipped with an emergency cylinder for easy access to cabins in an evacuation situation
- auto deadbolt option for enhanced security

Operation for Classic PIN:
- programmed to be operated by both keycard and pin code together for extra security
- always free passage from inside
- mechanical override with key

Materials and Finish for Classic for A-Classified Doors:
- lock case: steel
- striker plate: steel
- escutcheon: steel/brass
- battery cover: metal
- handle: stainless steel
- escutcheon: satin chrome, polished chrome, satin brass and polished brass

Delivery:
- outside escutcheon
- inside escutcheon
- 2 handles

Technical Information:
- lock case - choice of ANSI or EURO
- emergency override cylinder
- customised door cut out for drilling

Supplementary lock set for VingCard Vision
- battery operated by 3 x AA batteries for 4.5 V installations
- delivered complete with escutcheons, handles, lock case, cylinder and batteries
- memory information (audit trail) can be transferred to pocket PC and imported to Vision software
- beeper for indicating that a key has been pressed
VISIONLINE by VingCard

VISIONLINE by VingCard offers the ideal solution for the most demanding vessels.

Stand alone electronic locks operating in online mode are based on the Zigbee high security open platform (Radio Frequency (RF-online)) providing:

- more security and control
- more services to passengers
- more efficient and cost-effective hotel operations
- more efficient front desk operations
- more efficient engineering and maintenance

Compatibility: is available with Signature RFID as well as Classic and Signature electronic locks with a specific combo reader.

Software:
- offline basic software
- standard module is an additional available package
- advanced module is an additional available package
- communication module is an additional available package
- safety module is an additional available package

Front Desk Equipment:
- encoders
- cards and carriers
- service equipment

Network Architecture:
- stand alone electronic locks with RF-end nodes communicating to the VISIONLINE server through the Zigbee network
- gateways connecting to vessel Ethernet network for direct communication with VISIONLINE server
- routers that relay communication between locks and gateways

Zigbee Network Devices: Zigbee is a wireless standard transmitting data via RF-signals. This standard is aimed at controlling applications with relatively low data rate/power consumption.
Elevator Multi-Output Controller (MOC)

TO ORDER you must specify:
- finish
- lock set type, i.e. Classic or Signature
- reader type, i.e. magnetic stripe, combo or RFID

Application:
- to be built into the control panel inside the elevator
- simple installation
- compatible for use with VingCard’s Classic and Signature systems
- access bitmap technology eliminates the need for wired connection to a central verifier

Operation:
- when entering the elevator the passenger must insert their keycard
- all valid deck buttons light up and remain active for 10 seconds
- up to 7 outputs enable call buttons to be selectively activated so that access to decks is limited according to each passenger or crew’s keycard privileges

Finish:
- satin chrome, satin brass, polished chrome and polished brass

Weight:
- 1.7 kg (9V Mag)
Remote Controller

TO ORDER you must specify:

- finish
- lock set type, i.e. Classic, PIN or Signature
- reader type, i.e. magnetic stripe, combo or RFID
- surface or flush mounted model

Application:
- controls electronic striker plates, motor locks and other devices such as car park barriers and gates
- off line design for easy installation and operation
- compatible for use with VingCard's Classic and Signature systems
- choice of surface or flush mounted models

Operation:
- an encoded card from either VingCard's Classic or Signature systems should be used
- insert and remove card and the controlled device will open and a green light will appear

Technical Information:
- security access codes are encrypted on the keycard's track number 3
- service access only for authorized key holders
- weight: 2.6 kg (for Classic)

Delivery:
- fixing plate
- housing assembly
- front assembly with LCU
- service access cylinder
- circuit diagram
- heating element is optional

Dimensions:
- surface mounted: H 200 x W 83 x D 81
- flush mounted: H 220* x W 103* x D 59**
  * Total size of rim around the front assembly
  ** Depth inside the wall

Environmental Specifications:
- without heating element: card reader min.: 0 °C, max.: 50 °C
- with heating element: card reader min.: -30 °C, max.: 50 °C
- humidity: non condensing
RFID Locker Lock

TO ORDER you must specify:
• RFID locker lock

Application:
• for lockers and cabinets
• suitable for spa/wellness centres
• suitable for sport and gym centres

Operation:
• the VingCard RFID locker lock provides high security using proximity RFID carriers, e.g. RFID keycards, wristbands, keyfobs, etc.
• the front desk can customize access to the locker when using RFID technology
• keycards can either be activated by default, when checking in a passenger, or at a later time if needed
• an RFID key prepared for a locker will be accepted by any vacant locker
• only the RFID key used to lock, or a master RFID key, can open the locker once it has been locked
• the lockers are left open (vacant) after use
• an RFID locker key has no time window and is therefore valid throughout the passenger’s stay
• an RFID key can only operate one locker at a time, avoiding multiple lockers being locked by the same key

Technical Specifications:
• description: contactless electronic lock for lockers
• power source: 4 batteries - LR6 1.5V
• life cycle: 40,000 cycles/2 years
• RFID frequency: 13.56 MHz
• reading distance: 10 to 20 mm
• temperature range: -20° - +70 °C
• dimensions: H116 x W116 x D35 mm
• weight: 320 g
Energy Saving Unit

TO ORDER you must specify:

- energy saving unit

Application:

- compatible with the same VingCard cabin keycard
- disconnects electrical equipment and air conditioning when passengers are not in their cabin, thus reducing energy costs

Operation:

- courtesy time for passengers when removing the keycard from the ESU
- LEDs for easy location when entering the cabin

Technical Information:

- own power supply with minimum consumption (10mAmp in stand-by and 20mAmp when on)
- intelligent ESU prevents crew from using certain electrical equipment while cleaning the cabin, e.g. air conditioning, telephone, etc.
- weight: 200 g

Orion by VingCard Elsafe

- Orion is the new energy management solution that offers savings by degrees, while ensuring passenger comfort
- Orion detects passenger presence in the cabin and allows you to control and manage your air conditioning cost while cabins are unoccupied, monitoring and maintaining the same temperature comfort level when the passenger returns to their cabin
- Orion offers full wireless online functionality and a network that can be either set up independently or together with VISIONLINE by VingCard, the wireless online electronic lock
- Orion dramatically helps you improve your environmental and green initiatives and contributes to reducing global warming

System components:

- Orion thermostat
- Orion motion sensor
- door switch

Installation alternatives:

- stand-alone
- wireless online network
- wireless online network together with VISIONLINE by VingCard
4. Cylinders and Keys

**TrioVing Master Key Systems**

VingCard Marine provides customised TrioVing Master Key Systems to all passenger vessels.

VingCard Elsafe’s card operated locks and traditional lock cases and padlocks can be incorporated under the one Master Key System.

The standard profile cylinder is supplied with 6 pins while the system profile cylinder is supplied with 7 pins. TrioVing cylinders can be provided with various security levels which are activated during the various stages of building construction.

---

**Re ordering Keys and Cylinders**

<table>
<thead>
<tr>
<th>A</th>
<th>Must always be quoted when ordering keys or cylinders. The number is stamped on all keys and cylinders.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>This is the individual number stamped on each cylinder in a Master Key System. By following the line to the right hand side of the plan, an “X” indicates that the key in this column will open the cylinder.</td>
</tr>
<tr>
<td>C</td>
<td>The number used by the yard or owner at the time of production of the Master Key System.</td>
</tr>
<tr>
<td>D</td>
<td>Indicates the item number of the cylinder.</td>
</tr>
<tr>
<td>E</td>
<td>Used to indicate the item number for lock case, handles, escutcheon or any other important information.</td>
</tr>
<tr>
<td>F</td>
<td>Normally indicates the finish (colour) of the cylinder. Must always be stated when re ordering (not padlocks).</td>
</tr>
<tr>
<td>G</td>
<td>Indicates the opening direction of the door. Only needed when ordering lock cases.</td>
</tr>
<tr>
<td>H</td>
<td>Indicates the thickness of the door. Important if you order a complete cylinder set (for both sides of the door).</td>
</tr>
<tr>
<td>I</td>
<td>The individual number stamped on each system key. Always needed if you re order keys. Never indicate the door number, in this case, as normally several keys will open each and every door.</td>
</tr>
<tr>
<td>J</td>
<td>By following the column to the top of the locking plan, you will see which key number will open a specific cylinder. Alternatively, by looking down the column you will see which cylinders are opened by a specific key.</td>
</tr>
</tbody>
</table>
Cylinder 5520 - Oval Cylinder with Front Fastening

TO ORDER you must specify:
- cylinder number, i.e. 5520, 5520C, 5522, S-5525, S-5525C, S-5527 or S-5527C
- cylinder type, i.e. system profile, standard profile or equally keyed
- master key system number which is engraved on all system keys and cylinders
- finish, i.e. satin chrome, polished chrome, satin brass or polished brass
- A, B and C door measurements for cylinder sets
- door thickness for S-5525, S-5525C, S-5527 and S-5527C
- written authorisation from the vessel's owner/master must accompany the official order for system keys

Application:
- standard or system profile cylinder suitable for interior and exterior doors
- for use with cylinder lock cases in the 50-, 51- and 53-Series
- the cylinder is fixed to the lock case with front fastening screws
- available for door thickness 36 to 98 mm

Operation:
- standard profile cylinder delivered with 6 pins
- system profile cylinder delivered with 7 pins

Materials and Finish:
- satin chrome
- polished chrome
- satin brass
- polished brass

Delivery:
- the standard profile cylinder is delivered with a set of 3 keys. System keys must be ordered separately.
- cylinder 5520 is a single cylinder and cylinder 5520C is a double cylinder
- 5522 includes cylinder 5520 and thumb turn 5541
- cylinder set S-5525 includes cylinder 5520, thumb turn 5541, cylinder roses 5968 and cylinder rose screws and the double cylinder set S-5525C includes 2 cylinders and no thumb turn
- narrow profile cylinder set S-5527 includes cylinder 5520, thumb turn 5541, cylinder roses 5965 and cylinder rose screws and the double cylinder set S-5527C includes 2 cylinders 5520 and no thumb turn
- a blind cylinder is also available

Weight:
- 5520 = 160 g
- S-5525 = 418 g
- S-5527 = 490 g
- 5541 = 180 g
Cylinder Sets S-5525 and S-5527 - Cylinder Parts

**Cylinder 5520**
Supplied in length: 32 mm

**Thumb turn 5541**
Supplied in lengths: 24, 32 and 40 mm

**Cylinder extension 5935**
Supplied in lengths: 15, 30, 40, 45, 57, 80 and 125 mm

**Cylinder rose 5968 for S-5525 (replaces 5962)**
- **Interior Cylinder rose 5968**
  Supplied in heights: 6, 9, 12, 15, 18 and 21 mm
- **Exterior Cylinder rose 5968**
  Supplied in heights: 6, 9, 12, 15, 18 and 21 mm

**Cylinder rose 5965 for S-5527**
- **Interior Cylinder rose 5965**
  Supplied in heights: 8 and 14 mm
- **Exterior Cylinder rose 5965**
  Supplied in heights: 8 and 14 mm

Material: zinc
Finish: satin chrome or polished chrome

**Cylinder rose screws**
Supplied in lengths: 52, 56, 60, 64, 72, 76 and 100 mm
(200 mm length available on request)
Chapter 4. Cylinders and Keys

Cylinder 5537 - Oval Cylinder

TO ORDER you must specify:
- cylinder number, i.e. 5537, 5537C, S-5545 or S-5545C
- cylinder type, i.e. system profile, standard profile or equally keyed
- finish, i.e. satin chrome, polished chrome, satin brass or polished brass
- A, B and C door measurements for cylinder sets
- door thickness for S-5545 and S-5545C
- written authorisation from the vessel’s owner/master must accompany the official order for system keys

Application:
- a system cylinder that will allow doors with Boda, Abloy, Assa and Ruko lock cases to operate within a TrioVing Master Key System
- applied with motor locks from Abloy and lock cases from Boda, Assa and Ruko
- the cylinder is fixed to the lock case by adjoining screws

Operation:
- standard profile cylinder delivered with 6 pins
- system profile cylinder delivered with 7 pins

Materials and Finish:
- satin chrome
- polished chrome
- satin brass
- polished brass with clear polyester

Delivery:
- the standard profile cylinder is delivered with a set of 3 keys. System keys must be ordered separately.
- cylinder 5537 is a single cylinder and cylinder 5537C is a double cylinder
- cylinder set S-5545 includes cylinder 5537, thumb turn 5542, cylinder roses 5968 and cylinder rose screws and the double cylinder set S-5545C includes 2 cylinders and no thumb turn
- a blind cylinder is also available
- the cylinder is part of motor locks 5533, 5539, 5552, 5555 and 5560

Weight:
- 5537 = 170 g
- S-5545 = 500 g
- 5542 = 180 g
Cylinder 5532 - Oval Cylinder

TO ORDER you must specify:
- cylinder number
- cylinder type, i.e. system profile, standard profile or equally keyed
- finish, i.e. satin chrome, polished chrome, satin brass or polished brass
- written authorisation from the vessel's owner/master must accompany the official order for system keys

Application:
- standard profile and system profile cylinder set
- suitable for doors equipped with rim cylinder lock UK1601 and UK2622 (replaces 1183/1186)

Operation:
- standard profile cylinder delivered with 6 pins
- system profile cylinder delivered with 7 pins

Materials and Finish:
- satin chrome
- polished chrome
- satin brass
- polished brass with clear polyester

Delivery:
- the standard profile cylinder is delivered with a set of 3 keys. System keys must be ordered separately.
- spacer rings for coat to be ordered separately
- specify door thickness when ordering

Weight:
- 5532 = 254 g

Cylinder 5868 - Key Switch

TO ORDER you must specify:
- cylinder number
- cylinder type, i.e. system profile or standard profile
- written authorisation from the vessel’s owner/master must accompany the official order for system keys

Application:
- key switch to activate/close off a contact

Operation:
- equipped with 3 alternative micro switches:
  - rocker switch, ON - NON - ON
  - pulse switch, MOM - OFF - MOM
  - pulse switch, ON - NON - MOM
- can be used together with an electric striker plate and latch lock case

Materials and Finish:
- satin brass

Delivery:
- the standard profile cylinder is delivered with a set of 3 keys
- system keys must be ordered separately

Weight:
- 130 g
Cylinder 5536K/5567 - VingCard Emergency Override Cylinder for Card Operated Locks

TO ORDER you must specify:
- the Master Key System number stamped on the cylinder
- finish, i.e. satin chrome, polished chrome, satin brass or polished brass
- door thickness

Application:
- U.S. standard cylinder for VingCard locks and lock cases supplied by U.S. manufacturers

Operation:
- standard profile or within a master key system
- 5 level forward recodeable cylinder
- cylinder is screwed directly into the lock case and fastened with screws from the front of the lock case

Materials and Finish:
- satin chrome
- polished chrome
- satin brass
- polished brass with clear polyester coating

Delivery:
- the standard profile cylinder is delivered with a set of 3 keys
- system keys must be ordered separately

Weight:
- 5536 = 183 g
- 5567 = 183 g
Cylinder 5506/5511 - Continental Cylinder

**TO ORDER** you must specify:
- cylinder number, i.e. 5506, 5511/78 or 5511/special length
- cylinder type, i.e. system profile or standard profile
- finish, i.e. satin chrome, polished chrome, satin brass or polished brass
- length of 5506 and 5511/special length

**Application:**
- for lock cases requiring a “continental” cylinder, e.g. DIN standard locks. Allows these type of lock cases to operate within a TrioVing Master Key System.

**Operation:**
- standard profile or system cylinder with 7 pins
- installed as a single cylinder, single cylinder with thumb turn or double cylinder
- the cylinders are fixed to the lock case with front fastening screw

**Materials and Finish:**
- satin chrome
- polished chrome
- satin brass
- polished brass with clear polyester coating

**Delivery:**
- the standard profile cylinder is delivered with a set of 3 keys
- system keys must be ordered separately
- cylinder 5506 length: 39 or 69 mm (other lengths available on request)
- cylinder 5511 and 5511C: 78 mm (39 mm minimum on either side). Lengthened cylinders are available on request.
- 3 different catches are available which may be placed in 8 different positions (see illustration)

**Weight:**
- 5506 = 132 g
- 5511/78 = 242 g
- 5511C = 213 g
Cylinder 5866 - Furniture Lock

TO ORDER you must specify:
- the Master Key System number stamped on the cylinder
- finish, i.e. satin chrome or satin brass
- type of catch

Application:
- for cupboard doors and drawers

Operation:
- the catch is operated by a key
- for adaption to different door thicknesses there are 4 different catches available: straight and bent 10, 20 and 24 mm and direction Right and Left
- door thickness and type of catch must be specified. If not specified, then a straight catch, direction R, will be delivered.
- applies for door thicknesses up to 21 mm. A cylinder ring has to be used with door thicknesses from 13 to 19 mm.

Materials and Finish:
- satin chrome
- polished chrome
- satin brass with clear polyester coating
- polished brass with clear polyester coating

Delivery:
- the standard profile cylinder is delivered with a set of 3 keys
- system keys must be ordered separately
- the cylinder is delivered with front plate, locking plate, washer A and B and catch. Catch to be specified (see table).

Weight:
- 5866 = 173 g
- Catch = 24 g

1. Cylinder
2. Cylinder ring (2, 4, 6 and 8 mm)
3. Front ring (1 mm)
4. Washer (for wooden doors)
5. Nut
6. Secure ring
7.1 Catch arm R (straight, 10, 20 and 24 mm)*
7.2 Catch arm L (straight, 10, 20 and 24 mm)*
8.1 Follower A**
8.2 Follower A/L**
8.3 Follower B**
8.4 Follower B/L**
9. Circlip

* Direction of opening of catch seen from key side
** Follower A should be used when the key is pulled out in the locked and unlocked positions. A together with R catch, A/L with L catch. Follower B should be used when the key is pulled out in the locked position only.
Cylinder Padlock 5652R

TO ORDER you must specify:
• padlock number
• cylinder type, i.e. system profile or standard profile
• length of shackle, i.e. 25, 50 or 100 mm

Application:
• the 5652R is delivered with a stainless steel shackle making it particularly suitable for marine applications

Materials and Finish:
• padlock casing: chrome brass
• padlock shackle: stainless steel

Delivery:
• the standard profile padlock is delivered with a set of 3 keys
• system keys must be ordered separately
• the padlock is available with 3 alternative shackle lengths: 25, 50 or 100 mm. The required length of shackle must be specified.

Weight:
• 5652R/25 mm = 390 g
• 5652R/50 mm = 410 g
• 5652R/100 mm = 450 g
Cylinder Padlock PL320 by Abloy

TO ORDER you must specify:
- padlock number
- cylinder type, i.e. system profile or standard profile
- length of shackle, i.e. 20 or 50 mm

Application:
- a multi-purpose padlock suitable for wardrobes, food cupboards, tool boxes, etc.
- the key can only be removed in the locked position

Materials and Finish:
- padlock casing: chrome brass
- padlock shackle: stainless steel

Delivery:
- the standard profile padlock is delivered with 2 keys
- system keys must be ordered separately
- can be delivered in a separate master key system but it is not possible to incorporate in a TrioVing master key system

Weight:
- PL320 = 150 g
dp CLIQ by TrioVing - High Security Electronic Keys

A locking system with built-in intelligence which enhances the security of your current master key system on board. The system can be fitted on current TrioVing, VingCard and Assa cylinders, in addition to all European style profile cylinders, padlocks and furniture locks.

Application:
- TrioVing dp CLIQ technology is used as an effective perimeter protection off-line and for doors requiring registered and controlled security
- the technology provides electronic authorisation of group or individual levels
- master key cylinders with CLIQ function have the same level of security as mechanical TrioVing dp cylinders but with developed electronic flexibility and security

Operation:
- in addition to the mechanical cylinder pins there are electronics in the cylinder which communicate with the electronics in the key
- the cylinder can only be opened by a key which has both the correct mechanical and electronic code
- CLIQ technology takes care of high mechanical security no matter how many changes or extensions are made to the locking system
- dp CLIQ cylinders have the same measurements as corresponding mechanical cylinders
- electrical supply is not necessary as the battery is in the key head
- inside the key head is a chip with both a microprocessor and a memory

Delivery:
- User key - consists of mechanical combinations, electronics for ID and battery for power
- Master C key - used to programme keys
- dp CLIQ cylinder is available in the most common cylinder shapes, e.g. oval, continental, furniture, VingCard, key switch and padlocks
- power supply - lithium battery
- terminal - programming unit for keys and cylinders

Weight:
- dp CLIQ key = 32 g
- dp CLIQ cylinder = 152 g
Rekord Key Cutting Machine by Silca

TO ORDER you must specify:
- Rekord key cutting machine

Application:
- key cutting machine for cylinder keys

Operation:
- duplicates with maximum precision
- optimal working condition for the operator due to high-tech materials and ergonomic shapes

Technical Features:
- rotating with 4 sides, high precision
- HSS super rapid steel cutter
- controlled pitch grub screw
- ergonomic handles and levers
- led lamp integrated in the cover
- incorporated brush
- chippings tray
- tools compartment
- working tools area (cover)
- one speed single-phase - 230V-50Hz - 120V-60Hz

Dimensions:
- width: 330 mm (with maximum lever encumbrance: 510 mm)
- depth: 430 mm
- height: 270 mm

Weight:
- 19 kg
Key Cupboards 9802/9803/9804

TO ORDER you must specify:
- key cupboard number, i.e. 9802, 9803 or 9804
- with or without a cylinder
- cylinder finish, i.e. satin chrome or satin brass
- if extra insert plate with 200 hooks for 9802 is required

Application:
- enamelled steel cupboard for storing keys
- as standard the key cupboard is fitted with the TrioVing cupboard lock 5866
- the cylinder can be incorporated in a TrioVing Master Key system

Technical Information:
- 9803 key cupboard has 50 hooks
- 9804 key cupboard has 100 hooks or 200 hooks with insert plate
- 9802 key cupboard has 200 hooks or 400/600 hooks with one or 2 insert plates

Delivery:
- system cylinder keys must be ordered separately

Weight:
- 9802 = 14 kg
- 9803 = 3 kg
- 9804 = 5 kg
- extra insert plate for 9804 = 1 kg
- extra insert plate for 9802 = 5 kg
5. Handles and Escutcheons

Handles, Spindles and Accessories

A flexible solution makes it possible to combine TrioVing and VingCard handles with all kinds of round roses and long escutcheons and for all the 50-, 51- and 53-Series lock cases.

Due to the slanted milling of the spindle, screws are secured against vibrations and the fastening of the escutcheon remains strong.

Operation:
- the square spindle moves freely inside the handle
- the handle is fastened to the door by means of through fixing screws

Parts and Screws:
- plastic washer for 16 mm handle neck
- lining for 8 mm handle spindle makes it possible to use it in locks with 9 mm handle hub

Dimensions:
- an 8 mm square spindle is standard for all TrioVing and VingCard handles
- available in yellow chromate steel
- a stainless steel square spindle is standard for all marine locks
- spindle available in 3 lengths:
  1. 89 mm for door thickness 34-52 mm
  2. 107 mm for door thickness 50-70 mm
  3. 125 mm for door thickness 68-88 mm
- when using a spacer plate the door thickness area must be adjusted

Delivery:
- the door thickness must be specified in order that the correct screw lengths are supplied
- if the door thickness is not specified, then we deliver for the standard door thickness 36-44 mm
- doors with stainless steel escutcheons must have minimum door thickness 38 mm
Brass Door Handles

TO ORDER you must specify:
- handle number
- finish, i.e. satin chrome, polished chrome, satin brass or polished brass
- door thickness

Application:
- for all interior and exterior doors

Operation:
- suitable for all TrioVing lock cases in the 50-, 51- and 53-Series
- the Knob is only to be used as a permanent fixture on the long escutcheon

Finish:
- satin chrome
- satin brass
- polished chrome
- polished brass

Delivery:
- delivered in pairs (except for the Knob)
- stainless steel handle spindle
- includes fastening screws and nylon washers
- a sleeve lining is included so that the handle may be used with 9 mm hub lock cases
- round roses and long escutcheons to be ordered separately
- handle 8056-S/8 is always delivered with fixed round rose

Weight:
- 7363-S/8, pair = 500 g
- 7360-S/8, pair = 700 g
- 8356-S/8, pair = 422 g
- 8056-S/8, pair = 500 g
- Knob, piece = 300 g
- Flair, pair = 696 g
- Functional ANSI, pair = 503 g
- Straight, pair = 571 g
Brass Door Handles

In addition to the standard brass door handles shown on the previous page, VingCard Marine also supply handles specially designed for our card operated locks, i.e. the Flair, Functional Ansi (NB: Functional Euro can also be used with the 77-Series Long escutcheons), Straight and Wing.

The Knob is fixed to the escutcheon or rose.
Long Escutcheons for the 53-Series

TO ORDER you must specify:
- escutcheon number
- finish, i.e. satin chrome, polished chrome, satin brass or polished brass
- door thickness

Application:
- for doors equipped with 53-Series’ cylinder lock cases

Operation:
- suitable for doors requiring a handle only, a handle and cylinder or a handle and indicator
- 7712 used with cylinder lock case with dead bolt 5341/8 and dead latch lock case 5332/8
- 7713 for interconnecting doors - delivered in pieces only
- 7714 used with mortice lock case 5336/8
- 7715 used with cylinder lock cases 5312/8, 5316/8, 5320/8 and 5382/8, combined with the 5520/32 cylinder
- 7718 used with bathroom door lock case 5316/8

Finish:
- satin chrome
- satin brass
- polished chrome
- polished brass

Delivery:
- delivered in pairs with screws and nuts
- door thickness must be specified

Weight:
- 7712, pair = 430 g
- 7713, piece = 215 g
- 7714, pair = 400 g
- 7715, pair = 400 g
- 7718, pair = 470 g
Long Escutcheons for the 53-Series

7715: technical drawing

Outside: technical drawing

7718 outside: technical drawing

Inside: technical drawing

7718 inside: technical drawing
Stainless Steel Door Handle 8605

TO ORDER you must specify:
- handle number
- door thickness

Application:
- for heavy duty fire doors which require a stainless steel handle

Operation:
- suitable for all VingCard 53-Series stainless steel lock cases
- used in co-ordination with stainless steel long escutcheons 8660, 8662 and 8664 and handle rose 8621

Finish:
- stainless steel

Delivery:
- must be specially ordered
- delivered in pairs

Weight:
- 260 g, pair

Stainless Steel Handle Rose 8621

TO ORDER you must specify:
- handle rose number
- door thickness

Operation:
- for use with Handle 8605

Finish:
- stainless steel

Delivery:
- must be specially ordered
- delivered in pairs

Weight:
- 66 g, pair
Stainless Steel Long Escutcheons for the 53-Series

TO ORDER you must specify:
• escutcheon number
• door thickness

Application:
• for heavy duty fire doors equipped with 53-Series lock cases
• only to be used with Handle 8605

Operation:
• suitable for doors requiring a handle only, a handle and cylinder or a handle and indicator
• 8660 used with lock cases 5312/8, 5316/8, 5320/8 and 5382/8, combined with cylinders in the 5520-Series
• 8661 used with cylinder lock case 5341/8
• 8662 used with mortice lock case 5336/8
• 8664 used with bathroom lock case 5316/8

Finish:
• stainless steel

Delivery:
• delivered in pairs with screws and nuts
• door thickness must be specified
• minimum door thickness 38 mm

Weight:
• 8660, pair = 280 g
• 8661, pair = 280 g
• 8662, pair = 300 g
• 8664, pair = 380 g
Stainless Steel Long Escutcheons for the 50-Series

TO ORDER you must specify:
- escutcheon number
- door thickness

Application:
- for narrow profile doors equipped with 50-Series’ cylinder lock cases

Operation:
- suitable for doors requiring a handle only or a handle and cylinder
  - SK6485/SK6486 used with cylinder lock cases 5018, 5032 and 5049
  - SK6487/SK6488 used with cylinder lock cases 5016, combined with the 5520/32 cylinder

Finish:
- stainless steel

Delivery:
- 4 escutcheon screws, M5 x 75 mm, are included with both a single escutcheon or a pair of escutcheons

Weight:
- SK6485 = 150 g
- SK6487 = 150 g

Courtesy: Bulls Press
Flush Ring Handles 5013 and 5016

TO ORDER you must specify:
- handle number
- finish, i.e. silver lacquered or stainless steel (for 5016 only)
- door thickness

Application:
- for doors which must not have any protruding parts

Operation:
- inset ring handle
- 5013 - 8 mm hole part
- 5014 - 8 mm spindle part
- 5016 - 8 mm hole part
- 5017 - 8 mm spindle part
- fixed rotating handle ring
- handle spindle is riveted to the 5014 and 5017

Finish:
- steel recess with metal ring handle
- 5013/5014: standard finish of steel/metal is 0.02 silver lacquered
- 5016/5017: standard finish of stainless steel is 0.82 satin brushed

Delivery:
- must be specially ordered
- delivered in pieces

Weight:
- 5013 and 5014: 120 g, piece
- 5016 and 5017 in steel/metal: 120 g, piece
- 5016 and 5017 in stainless steel: 250 g, piece
Cylinder and Indicator Roses

Cylinder Rose 5968 (replaces 5962)

TO ORDER you must specify:
- cylinder rose number
- finish, i.e. satin chrome, polished chrome or satin brass
- height, i.e. 6, 9, 12, 15, 18 or 21 mm
- specify inside or outside rose
- door thickness
- rose screws must be ordered separately

Application:
- suitable for all Assa/Ruko cylinder lock cases
- used in combination with cylinder 5537

Material and Weight:
- brass
- 43 - 80 g, piece, depending on height

Cylinder Rose 5965

TO ORDER you must specify:
- cylinder rose number
- finish, i.e. satin chrome or polished chrome
- height, i.e. 8 or 14 mm or 8 mm blind rose
- specify inside or outside rose
- door thickness
- rose screws must be ordered separately

Application:
- suitable for TrioVing narrow profile cylinder lock cases:
  5016, 5018, 5032 and 5049
- used in combination with cylinders 5520 and 5537

Material, Finish and Weight:
- zinc
- satin chrome and polished chrome only
- 8 mm = 67 g and 14 mm = 95 g

Cylinder Rose 2501

TO ORDER you must specify:
- cylinder rose number
- finish, i.e. satin chrome or satin brass
- height, i.e. 4.5 or 7.5 mm
- specify inside or outside rose
- door thickness
- rose screws must be ordered separately

Application:
- suitable for TrioVing cylinders 5506, 5511 and 5511C

Material and Weight:
- brass
- 4.5 mm = 255 g and 7.5 mm = 325 g

Delivery:
- rose screws are included with Cylinder rose set but must be ordered separately for single roses
Cylinder and Indicator Roses

Cylinder Coat for 5532

TO ORDER you must specify:
• cylinder coat

Application:
• suitable for TrioVing cylinder 5532, Rim cylinder latch lock UK1601 and Rim cylinder dead lock UK2622

Material, Finish and Weight:
• zinc
• satin chrome or polished chrome
• 60 g, piece

Indicator Rose 7562

TO ORDER you must specify:
• indicator rose number
• finish, i.e. satin chrome, polished chrome, satin brass or polished brass
• door thickness

Application:
• suitable for Lock case 5316/8
• used in combination with door handle and handle rose

Material, Finish and Weight:
• brass
• indicator = 198 g and thumb turn = 200 g

Cylinder Coat 5967

TO ORDER you must specify:
• cylinder coat number
• height, i.e. 6 or 10 mm
• specify inside or outside rose
• door thickness
• rose screws must be ordered separately

Application:
• used with long escutcheons in the 76- and 77-Series to reduce the visible part of the cylinder
• the spacer plate must be used on doors with door thickness less than 34 mm
• when placing a spacer plate on each side of the door the door thickness increases by 14 mm

Material and Weight:
• black polycarbonate
• 4 g, piece

Delivery:
• delivered separately
Handle and Blind Roses

Handle Rose 7509

TO ORDER you must specify:
- handle rose number
- finish, i.e. satin chrome, polished chrome, satin brass or polished brass

Application:
- suitable for all TrioVing lock cases
- the handle rose is adjustable for all TrioVing door handles in brass with an adjustable spindle

Material and Weight:
- brass
- 100 g, pair

Blind Rose 5966

TO ORDER you must specify:
- blind rose number
- finish, i.e. satin chrome, polished chrome, satin brass or polished brass
- inside, outside or pair

Application:
- suitable for all TrioVing lock cases
- used to cover old cylinder or handle holes

Material and Weight:
- brass
- 140 g, pair

Handle Rose 2593

TO ORDER you must specify:
- handle rose number
- finish, i.e. satin chrome, polished chrome, satin brass or polished brass

Application:
- suitable for TrioVing narrow profile lock case 5016

Material and Weight:
- brass
- 65 g, pair
Fittings

Flush Bolt 849

TO ORDER you must specify:
- flush bolt number
- finish, i.e. chrome or brass

Application:
- for double doors, etc.
- plastic striker plate

Material, Finish and Weight:
- zamak/chrome
- zamak/brass
- 137 g, piece

Delivery:
- delivered in pieces including flush bolt and striker plate. Screws (3.5 x 2.5 mm) must be ordered separately.

Spacer Plate 7695

TO ORDER you must specify:
- spacer plate number

Application:
- used with long escutcheons in the 76- and 77-Series to reduce the visible part of the cylinder
- the spacer plate must be used on doors with door thickness less than 34 mm
- when placing a spacer plate on each side of the door the door thickness increases by 14 mm

Material, Finish and Weight:
- black polycarbonate
- 30 g, piece

Delivery:
- delivered separately
6. Key Issuing Equipment
Printers and Encoders

KDE Encoder by VingCard
The KDE encoder is a slim line, multi track encoder. It provides dependable magnetic stripe card encoding. This encoder operates with the VingCard VISION locking system and produces magnetic stripe cards suitable to operate with VingCard’s Classic and Signature locks.

RFID Encoder by VingCard
The RFID encoder is a highly qualified and sophisticated encoder for cards and tokens, delivered by VingCard. With its elegant and minimalistic design, it will blend into any front desk environment.

- Mifare Classic 1K, Mifare Classic 4K, Mifare Ultralight, CryptRF cards
- ISO 14443 A&B read/write
- wall mounted or stand alone
- ethernet interface

LockLink Service Terminal by VingCard
The LockLink is a handheld service terminal used for uploading programs and data transfer to electronic door locks and/or safes. This service terminal synchronizes programming between the PC server and the locks and/or safes.

- touch screen
- flash RAM memory
- IR communication with one metre range
- 7 days minimum standby time

TEP 5000 by Cetwin
The TEP 5000 is a multi functional, heavy-duty, ticket encoder/printer with simultaneous bar code, magnetic stripe and RFID encoding capabilities for direct thermal (encode/print) and plastic cards (encode). It is compact, robust and reliable, designed for demanding and space conscious OEM and desktop environments. Key features:

- bar code, magnetic stripe and RFID encoding in the same unit
- ticket and card thickness up to 0.8 mm
- serial, USB and ethernet interface
- up to 35 tickets issued per minute
- easy maintenance
Printers and Encoders

Zenius by Evolis
Zenius, the first eco-designed printer, stands out with its optimized features and a compact and sleek design. The Zenius prints high-quality single-sided cards in monochrome or colour and encodes technology cards, in single or small runs, for a variety of applications: employee badges, access control badges, payment cards, transportation passes, etc. The printer has a sound level of just 46 dB(A) and weighs 3.3 kg.

- single-sided printing module, edge-to-edge printing
- colour-dye sublimation and monochrome thermal transfer
- 300 dpi print head
- 120 to 150 cards per hour in colour
- 400 to 500 cards per hour in monochrome

Primacy by Evolis
Primacy is a high-end printer that is easy to use, flexible and fast. The Primacy delivers cards in runs due to the 100-card capacity input and output hoppers and is the first printer in its category to offer this level of performance through such a compact size. The energy consumption is on average 5 times lower than the printers from the previous generation. It operates at a low 48 db sound level and weighs only 4 kg.

- single-sided or dual-sided printing module, edge-to-edge printing
- colour-dye sublimation and monochrome thermal transfer
- 300 dpi print head
- 190 to 200 cards per hour in colour
- 600 to 850 cards per hour in monochrome
- dual side: 140 cards per hour

Quantum by Evolis
The Quantum is a modular encoding and printing system which provides the power of a centralised system and the flexibility of a desktop printer. Prints and encodes plastic cards in volume. Due to the 1,000 card feeder, hopper and ribbon, this is the only printer on the market which provides this printing capacity in colour. The detachable and reversible encoding unit prints and encodes on the same side, without having to flip the card over.

- colour and monochrome thermal transfer
- 300 dpi print head
- dual-sided printing
- 150 cards per hour in full colour, single sided
- 115 cards per hour in full colour, dual-sided
- 1,000 cards per hour in monochrome, single sided
- 320 cards per hour in monochrome, dual-sided
7. Safety and Security Systems

Gangway Control System

Gangway Control

VingCard Marine’s Gangway Control system is a secure and flexible method of storing crew, passenger and visitor data and providing real time status reports of who is on board and ashore, as required by the ISPS regulations for passenger and merchant vessels.

The Gangway Control is set up at the gangway or other suitable location. The system comprises of:

- laptop PC
- Gangway Control software
- camera
- card scanner
- card printer and encoder
- 200 blank cards
- colour ribbon

Crew, passengers and visitors are registered in the system and an identification card is issued with the person’s photograph and a unique ID, which is stored as a printed bar code, encoded magnetic stripe or programmed RFID chip.

Real time status reports can be seen on any PC on the ship’s network and shore side offices can monitor the ship’s status on the internet. Advanced screen menus are available, including Gangway Control, Ship Status and Personal Information reports.

The customer can interface their own database, e.g. Microsoft SQL, Sybase, Oracle, etc. The hardware is common Windows and PC compatible devices, e.g. USB web camera and COM port scanners.

The Gangway Control system is easy to operate and maintain, using well known platforms. The system can be very simple or advanced, depending on the vessel’s requirements. The mandatory software is Windows 2000/2003 and XP compatible. The basic system requires one license per work station (client version) and one license for the database server (server version), which must be renewed annually. The software can be installed on multiple PCs, according to the license agreement.

The system can be integrated through interfaces with VingCard Key, VingCard Mustering, PMS and POS systems.
Muster Control System

**Muster Control**

VingCard Marine’s Muster Control system uses wireless scanners for registration and real time tracking of muster stations during safety drills and emergencies.

The operator scans the ID card or cabin key of each person. If the card is missing there is an option for manual selection.

The scanner has the full list of all crew and passengers on board with picture ID (optional), their respective cabin number and muster station number.

If a person meets up at the wrong station or life boat, the correct location will be displayed on the scanner. For emergencies there is a choice to accept registration wherever a person presents themselves.

Multiple muster station scanners may be connected to the ship’s network on a central computer and the scanners are synchronised using Microsoft Active Sync. Reports are generated to show persons who attended mustering and those who did not meet up.

Muster Control may use ID cards with RFID, bar code or magnetic stripe.

The rough scanner is classified IP64 and built to withstand drops from 1.5 metres.
DESKO Passport Scanner

The DESKO MPR 7100 is a flexible and ergonomic document reader for security and passenger service.

- small, versatile and easy to use multi-purpose reader
- no power supply required
- passport reader (OCR): bi-directional swipe reader for all ICAO conform travel documents, ID cards, passports and visas
- magnetic stripe reader (MSR): bi-directional swipe reader for all magnetic based cards and documents
- bar code reader (BCR): simple connection of any bar code scanner, handheld or stationary, to the MPR 7100
- available with PS/2 (for power supply only), RS232 series and USB interface (MPR 7200)
- e-passports: the new ICAO compliant, biometric passports with RF-Chip “e-Passports” are specified. With the MPR 7200 used in connection with the Desko 7200 e-Passport reader, your manual stations will be ready for the future of biometric passports.

The DESKO PENTA ID Terminal is the ultimate self-service terminal which combines all features of the PENTA family in an innovative concept.

- downward compatible to legacy ID check infrastructure (BGR, CKI, etc.)
- stand-alone technology for enhanced passenger service (supervised boarding, etc.)
- automatic recognition of passports and ID cards according to ICAO 9303
- large, multi-colour touch screen for improved passenger feedback
- flexible deployment (optional: WLAN and 12 hr battery pack)
- full NFC support
- optional ICAO-RFID, e-passport module
- optional 1D/2D bar code reading of documents or LCD
Shared Bathroom Privacy Lock

The Shared Bathroom Privacy Lock is an electronic system to secure privacy in bathrooms shared by 2 adjoining cabins. The system works as follows:

1. For access to the bathroom, press the Open button in your cabin.

2. Your bathroom door opens while the door to the adjoining cabin remains locked.

3. When you have entered the bathroom and closed the door, press the Open/Locked button inside and both doors are locked for privacy.

4. To exit, press the Open/Locked button once more and the door you came in opens while the door to the adjoining cabin remains locked.

5. A few seconds after you exit, both doors return to a locked position and the bathroom is available from both cabins by pressing the Open button.

Shared bathroom layout
**Online Access Control System**

**Introduction**
The Online Access Control System is a simple panel for visual and active control of all doors connected to the system.

**Product Description**
The following items are part of the system:

- Door Control panel
- Door Control unit
- Trimec Keypad
- Electromagnetic lock
- Egress switch

**System Overview**
Up to 24 doors can be included in the Online Access Control system. Each door is locked by a Verrou Control unit. This locking mechanism is controlled by the Trimec Keypad outside the door. The Egress switch inside the door unlocks the door when activated. The operation of the Verrou Control unit is also controlled by the set-up of the Door Control panel. In the event of a power cut, the Verrou Control unit will unlock the door.

The Door Control Panel is an online door locking system operated from one single point, e.g. the bridge. A predefined number of doors, operated by digital code, magnetic stripe card or remote control, are controlled from the panel. The online features include:

- override switch to “All Doors Unlocked/All Doors Locked”
- individual Door Control
- alarm when a door is left ajar or in the event of an electrical power cut
- green light = Door Unlocked
- red light = Door Locked
- blinking green light = door ajar/power failure

The Panel is customized to the requirements of the vessel.

The Door Control Unit is required for each individual door. This unit is made to interconnect the Trimec Keypad, the Egress switch, the Verrou Control unit, the Power Supply and the Door Control panel.

Waterproof Keypad is an IP68 watertight keypad. Self-contained access control system for up to 200 individual codes. Designed to US military specifications for shock, vibration, temperature and high impact.

The electromagnetic Magnalock M62 is a strong, easy to maintain solution for indoor and outdoor higher security. The M62 has a lifetime replacement no fault warranty and a 544 kg holding force. Options include single and double door configurations.
ASSA ABLOY Door Closers

Introduction

VingCard Marine supplies a range of ASSA ABLOY door closers to meet the various standards and requirements on board passenger vessels.

ASSA ABLOY rack and pinion door closers are distinguished by their compact shape and are very versatile, thanks to their conventional rack and pinion technology. They meet the requirements of CEN guidelines TR 15897/DIN Spec 1104, which recommends a reduction in opening force by 40% by the time the door opening angle reaches 60° at the latest. This way the ASSA ABLOY rack and pinion door closers guarantee comfortable door opening due to the rapidly decreasing force progression. Doors equipped with these door closers can be opened more easily and with less exertion by the elderly and disabled, as well as children.

New projects will be supplied with the new DC range of ASSA ABLOY door closers.

TO ORDER you must specify:
• door closer type
• arm type
• finish: silver or white

Application
• DC200 - rack and pinion door closer with link arm L190
• DC200 - adjustable closing force: EN 2-4
• DC340 - guide rail door closer with height adjustable guide rail G195 or standard guard rail G193
• DC340 - adjustable closing force: EN 1-4
• DC200/DC340 - for single action doors up to 1100 mm wide
• DC347 - rack and pinion door closer with extra strong link arm L197
• DC347 - adjustable closing force: EN 5-7
• DC347 - for single action doors up to 1600 mm wide
• DC200/DC340/DC347 - suitable for fire and smoke protection doors

Weight
• DC200 - 2.2 kg
• DC340 - 2.4 kg
• DC347 - 2.2 kg
PowerSwing Door Closer by Besam

The Besam PowerSwing is an electro-hydraulic operator, designed for a wide variety of applications. It is suitable for almost all types of external and internal fire-rated swing doors. The operator can be mounted on either side of the door for pull or push action and is suitable for single or double doors fitted with butt hinges or pivots. The PowerSwing is equally suitable where silence, flexible operation and reliability are required, as well as for high density traffic and difficult operating conditions.

Options

- push/pull applications
- single/double applications
- concealed co-ordinator for fire door applications
- complete door system

Technical Specifications

- power supply: 230 V AC, 50 Hz/120 V AC, 60 Hz
- auxiliary voltage: 24 V DC
- power consumption: max 230 W
- ambient temperature: -15° to +30 °C
- recommended max door weight: 250 kg for leaf width 1600 mm
- controlled door closing: EN 1154, size 3-6

Weight and Dimensions

- 250 kg
- max door leaf width 1.6 m
Introduction

VingCard Marine’s range of keycards includes:

- mechanical punched hole
- magnetic stripe
- cardboard
- RFID (anti-cloning)

to suit our wide range of card operated locks.

Keycards by VingCard

Guaranteed quality. VingCard imposes the highest standards, both with regard to choice of materials and production in accordance with specifications, thus their keycards never fail to function in your VingCard locks.

Using inferior keycards can cause a variety of problems, e.g. difficulty in encoding the cards, incorrect reading and failed access to cabins.

Customised keycards can be ordered directly from VingCard Marine. Company logos, texts and special promotions can be printed on the keycards. The possibilities are endless.

Cardboard keycards are the environmental and cheaper alternative to plastic keycards and are especially suitable for shorter journeys. The keycards are available in 2 lengths: standard credit card size and standard longer length with perforated end.

RFID keycards. The contact less solution. Choose from low cost passenger cards or long lasting crew cards. VingCard RFID keycards are anti-cloning.

RFID wristband. The ideal RFID carrier for spa or swimming areas for passengers and crew.

RFID key-fob. An RFID carrier tag for passengers and crew.

NFC mobile phone. Compatible with Near Field Communication (NFC) standards. NFC technology enables RFID communication between our electronic locks and NFC-ready last generation mobile phones.
9. Panic Exit Devices

Cross Bar 89 Series by JPM

TO ORDER you must specify:
• single point or 3 point locking
• cross bar length, i.e. 900 or 1200 mm
• finish: stainless steel or silver but other colours available upon request

Application:
• suitable for both standard and fire door applications
• suitable for emergency exit doors
• suitable for frequently used communicating doors
• suitable for narrow profile doors
• suitable for single or double leaf doors

Operation:
• any individual or collective push on the push bar triggers the opening of the emergency exit, in any circumstances
• low opening pressure (under 8 daN)
• device operates in panic situations even if door is subjected to loads of 100 daN
• lockable outside trim
• very long operating life - tested past 250,000 cycles
• corrosion resistant - tested to 96 hours salt spray (220 hr for stainless steel models)
• dead locking latches and bolts for greater security
• cannot be used with Lock case 5316/8

Technical Information:
• change of direction of opening made easy due to reversible handle
• 900 and 1200 mm horizontal push bar
• 3 point locking maximum height 2350 mm
• main case with cross follower
• auxiliary case containing the bar’s recall mechanism
• allows opening with a simple push on the bar, even if the outside trim is locked

Materials and Finish:
• chassis: chromated steel
• mechanism: steel and brass for standard doors and steel only for fire rated doors
• covers: painted zinc-plated steel
• horizontal push bar: painted steel
• stainless steel finish available
Touch Bar 90 Series by JPM

TO ORDER you must specify:
- Touch Bar 90
- touch bar length, i.e. 900 or 1200 mm
- finish: silver is standard but other colours available upon request

Application:
- suitable for both standard and fire door doors
- suitable for emergency exit doors
- suitable for frequently used communicating doors
- suitable for narrow profile doors
- suitable for single or double leaf doors

Operation:
- a slight individual or collective push on the activating bar, which is perpendicular to the door, triggers the opening of the Emergency Exit, in any circumstances
- this device leaves a maximum exit space clear and is less likely to deteriorate
- low opening pressure (under 5 daN)
- device operates in panic situations even if door is subjected to loads of 100 daN
- lockable outside attachment - independant of touch bar
- very long operating life - tested past 250,000 cycles
- corrosion resistant - tested to 96 hours salt spray
- dead locking latches and bolts for greater security

Technical Information:
- main case with cross follower
- bar adjustable on site:
  1. short model 838 mm can be shortened to 650 mm
  2. long model 1141 mm can be shortened to 750 mm
- maximum projection: 59 mm

Materials and Finish:
- chassis: chromated steel
- mechanism: steel and brass covers: painted zinc-plated steel
- main cover case: zinc-plated steel
- back cover case: zamak
- horizontal bar: steel
- cases and covers: standard silver finish
10. Safes

Xtra II by Elsafe
Sentinel II RFID by Elsafe

Introduction

VingCard Marine provides a range of both electronic safes and mechanical safety boxes, to meet the various standards and requirements on board passenger vessels. An in-cabin safe is essential for both passengers and crew alike.

Xtra II provides advanced security at an affordable price. It features sleek, classic styling, advanced digital electronics, solid steel construction, a proprietary quick-change battery system, anti-tamper labyrinths and well known Elsafe reliability.

Sentinel II RFID combines in-room security with a functional and trendy design. Revolutionary features include a proprietary interlocking dead bolt mechanism and extended solid steel bolt hinges. In addition, the safe can be securely operated with the same RFID cabin lock keycard.

TO ORDER you must specify:
- safe type
- depth
- finish

Application:
- suitable for all cabins

Operation:
- emergency override: Safelink and Pinkey
- power supply: 5 LR6/AA batteries
- push button to close door
- industry leading audit trail
- Xtra II - 4-digit passenger selected code and ADA compliant digital keypad

Technical Information:
- audit trail with in-room print out option
- easy outside battery change
- spring loaded door
- Xtra II - 5 sizes available: 27/43/50 cm, floor and in-wall
- Sentinel II - 3 sizes available: 25/41/49 cm
- 18 mm solid steel bolt locking mechanism
- inside carpet
- internal power outlet options: UK/US/EURO

Materials and Finish:
- locking system: high grade steel latch
- construction: high quality seam welded 2 mm steel
- door: 2.5 mm cold-pressed steel with anti-tamper labyrinths
- 3 colour options for the front panel and door frame: grey, blue and burgundy
Crew Safety Box by VingCard Marine

TO ORDER you must specify:
• depth/width/height
• thickness of steel
• locking method, i.e. cylinder or padlock
• cylinder/padlock type, i.e. system profile or standard profile
• colour

Application:
• customized steel safety boxes for crew cabins and/or common areas

Operation:
• locked by cylinder or padlock

Technical Information:
• tailor-made to meet individual customer requirements

Materials and Finish:
• steel
• customized finishes available
11. Accessories

Introduction
In addition to the ASSA ABLOY Group company products which we have focused on, VingCard Marine provides a range of accessories to meet all your security hardware needs.

Contact us with your requirements.

Door Viewer by VingCard
The Cruise Vessel Security and Safety Act of 2010, effective July 2011, mandates that each passenger and crew cabin door has a peep hole. VingCard Marine’s door viewer is UL-classified for use with fire doors. The door viewer has a glass lens and a super wide 200° all round clear angle of view.

Door Retainer by VingCard
Prevents entry by intruders and increases the passenger’s safety. A door retainer is a minimum requirement needed to obtain safe identification from strangers at your door.

Cleaning Cards by VingCard
Cleaning card sets are available for all VingCard card operated locks.

Yo-yo by VingCard
For the crew’s convenience, clip and hook yo-yos are available for the carrying of both keycards and metal keys.

Badge Holder with Lanyard
VingCard Marine supply badge holders with lanyards for crew ID cards.
12. Technical Drawings

Conversion Formulae
All the dimensions in this catalogue are expressed in millimetres.
The metric conversion is as follows:

From millimetres to inches: multiply by 0.0393701
From inches to millimetres: multiply by 25.40

Door Measurements
A = total door thickness
B = distance from centre of lock case to exterior of door on the cylinder side
C = distance from centre of lock case to interior of door on the thumb turn side

<table>
<thead>
<tr>
<th>Door thickness</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>36-44</td>
<td>20</td>
<td>13</td>
<td>31</td>
</tr>
<tr>
<td>44-52</td>
<td>24</td>
<td>17</td>
<td>35</td>
</tr>
<tr>
<td>52-60</td>
<td>28</td>
<td>21</td>
<td>39</td>
</tr>
</tbody>
</table>

Direction of opening

Turn to port!
I mean to starboard!
No! Port!
I mean starboard!

You're just going to have to be more decisive, lucky Eddie...

Courtesy: Bulls Press
53-Series Lock cases - Dimensions

53-Series Lock cases - Drilling
53-Series Lock cases - Drilling

- Striker plate cut out
- Striker plate for 53-Series (excluding 5320/8 and 5382/8)
- Striker plate for 5320/8 only
- Striker plate with dust box for 53-Series
- Striker plate for 5382/8 only (supplied with or without dust box)
50-Series Lock cases - Dimensions

Striker plate 5016/5018/5032

Striker plate 5049

IT SAYS: "WE’VE GONE SOUTH FOR THE WINTER. IF YOU HAVE AN OUNCE OF COMMON SENSE, YOU WILL TOO!"

Courtesy: Bulls Press
50-Series Lock cases - Drilling

5016 - aluminium frame

5016 - aluminium door

5018/5032 - aluminium frame

5018/5032 - aluminium door

5049 - aluminium frame

5049 - aluminium door
Signature RFID - ANSI - Dimensions

Signature RFID - EURO - Dimensions
Signature RFID - ANSI - Drilling
Signature RFID - EURO - Drilling

Outside door

Inside door
Signature - ANSI - Dimensions

Signature - EURO - Dimensions
Signature - ANSI - Drilling

Outside door

Inside door

Outside door

Inside door
Signature - EURO - Drilling

Outside door

Inside door

Signature - EURO - drilling
Classic - ANSI - Dimensions
Classic - EURO - Dimensions
Classic - ANSI - Drilling
Classic - EURO - Drilling

[Diagram of a mechanical component with dimensions and notes]

Classic - EURO - drilling

[Diagram of another mechanical component with dimensions and notes]

Classic - EURO - drilling
Classic RFID - ANSI - Dimensions

Classic RFID - EURO - Dimensions
Classic RFID - ANSI - Drilling
Classic RFID - EURO - Drilling

Classically, RFID technology has been utilized for various applications, including access control systems and item tracking. The EURO standard for RFID drilling involves specific dimensions and tolerances to ensure compatibility with existing lock mechanisms. Understanding these standards is crucial for integrating RFID technology seamlessly into existing security systems.

Diagram showing the dimensions and tolerances for RFID drillings as per the EURO standard, including notes and guidelines for installation.
Chapter 12. Technical Drawings

Original - ANSI - Dimensions

Original - EURO - Dimensions
Classic for A-Classified Doors - Spacer - Dimensions

Classic for A-Classified Doors - Spacer - Drilling
Classic PIN - Dimensions

Classic PIN - Drilling

Classic PIN ANSI

Classic PIN ANSI - drilling

Classic PIN EURO - drilling
13. Terms of Delivery

VingCard Marine is a part of VingCard Elsafe AS, Sophus Lies vei, N-1523 Moss, Norway and is hereafter referred to as VingCard Marine.

The following are the terms and conditions under which VingCard Marine supplies its products and services. These terms and conditions shall be valid unless otherwise specified and agreed upon in writing. Such changes to the Terms of Delivery may only be approved by the Vice President of VingCard Marine or by the President of VingCard Elsafe AS.

1. All products and services will be invoiced at prices and at terms and conditions valid at the time of delivery, unless otherwise agreed in writing. Written agreements must accompany the order.

2. Delivery time is specified in the order confirmation, issued for each order, and it is this delivery time only which will be binding.

3. For orders with a net value below EUR 500.00, a handling charge of EUR 50.00 will apply.

4. Shipments are made FCA VingCard Elsafe’s premises, Moss and Shanghai. Shipments with net values exceeding EUR 40,000.00 are made CIP nearest customs point, major port or airport, whichever is more convenient for VingCard Marine.

5. CIP shipments are made with VingCard Marine’s appointed carriers, by land or sea freight only. Air freight and transportation by customer’s preferred carriers will be invoiced at cost or shipped at customer’s account.

6. Direct deliveries from VingCard Elsafe’s premises in Shanghai to domestic consignee in China are liable for duty and VAT, unless the consignee has an import license.

7. Established customers are invoiced in Euro (EUR) with payment due 30 days from the date of invoice. Late payments are subject to an interest invoice, the current interest being 12% p.a. If the terms of payment are not respected, VingCard Marine shall have the right to request prepayment for future shipments without further notice.

8. Shipments to new customers, customers without an established credit and established customers who have exceeded their credit limit with VingCard Marine, will be required to make prepayments. Large shipments may be made on a Cash Against Documents (CAD) basis and expenses for such shipments shall be borne by the customer.

9. If special terms of payment have been agreed to and these are not respected by the customer, VingCard Marine shall have the right to cancel such an agreement without further notice. The terms in paragraphs 7. and 8. will then apply. The customer in such an event shall have no right to compensation.

10. Products supplied by VingCard Marine from other suppliers are delivered according to the standards of their respective manufacturers at the time of purchase by VingCard Marine.

11. Products are delivered with a one year warranty from the date of shipment from Moss. VingCard Marine will not accept responsibility for items handled without due care and protection, stored or installed in an environment or under conditions in which the items in question would not normally be used.

12. The customer shall ensure that all personnel installing products supplied by VingCard Marine have been trained or have the necessary tools and information to install these items. Products in the VingCard system range are supplied with installation instructions. It is the responsibility of the customer to ensure that a sufficient number of these instructions are available at the time of installation and that the contents are read and understood by everyone involved with the installation.

13. VingCard Marine will not assume responsibility, nor will any warranty be valid, unless the installation of products in the VingCard system product range is made according to the installation instructions.

14. VingCard Marine will train the personnel responsible for the operation and maintenance of VingCard systems purchased with system training and start-up. It is the responsibility of the customer to ensure the attendance of personnel for this training, as well as to ensure that the training and start-up of the system can be made without delay. Upon completion of system training and start-up, the customer shall sign a “System Acceptance Form”.

15. Claims must be made in writing to VingCard Marine not later than one week after receipt of the shipment.

16. Returned shipments will not be accepted by VingCard Marine unless clearly agreed in writing and only then when accompanied by a pro forma invoice completed by the customer upon returning the faulty items. A copy of VingCard Marine’s authorisation policy for returning materials and lodging complaints will be supplied on request.

17. If any part of VingCard Marine’s products should be defective and this defect is resulting from design, materials or workmanship, then VingCard Marine reserves the right to either repair the defective part(s) or to provide the customer with a new part(s). This liability is limited to defects which appear during a period of 12 (twelve) months computed from the date of delivery to the customer. Excluded are defects resulting from installation or maintenance, unless VingCard Marine has explicitly accepted responsibility for this. VingCard Marine’s liability and obligations are expressly limited to what is listed in this clause and under no circumstances is VingCard Marine liable for consequential damages caused by defects in the products.

18. Circumstances beyond the control of VingCard Marine or its sub-suppliers, e.g. war, state of emergency, legislative or public orders, natural disasters, fire, strike, lock out, delay or hindrance of material or labour, accidents during manufacturing, transportation obstacles, etc., shall not justify cancellation of an order, nor shall it justify grounds for compensation.

19. Any dispute shall be settled by the appropriate court in Moss, Norway.