



Installation and setting instructions

Gatelock Type VL10

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Important

**These instructions must remain with the product to ensure correct installation.
If extra copies are required please contact Dewhurst UK Limited and quote
publication number and issue**

If you have any problems or questions, please contact our technical support desk direct
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FIGURE 1 (VL10 Right Hand)

VL10 GATELOCK RIGHT HAND
 i.e. WITH DOOR CLOSING TO
 RIGHT FACING THE LIFT WELL

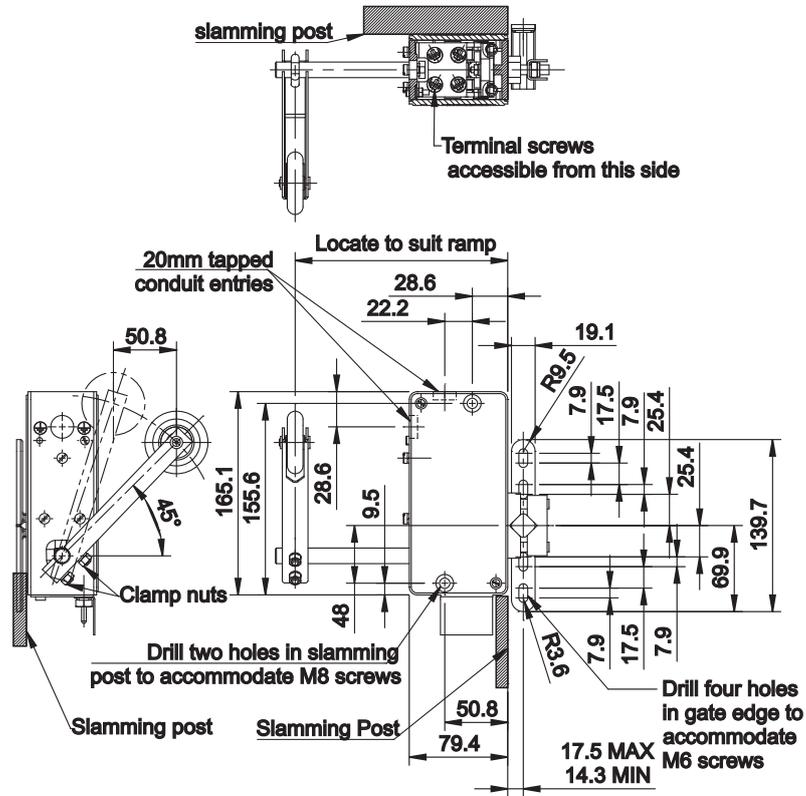
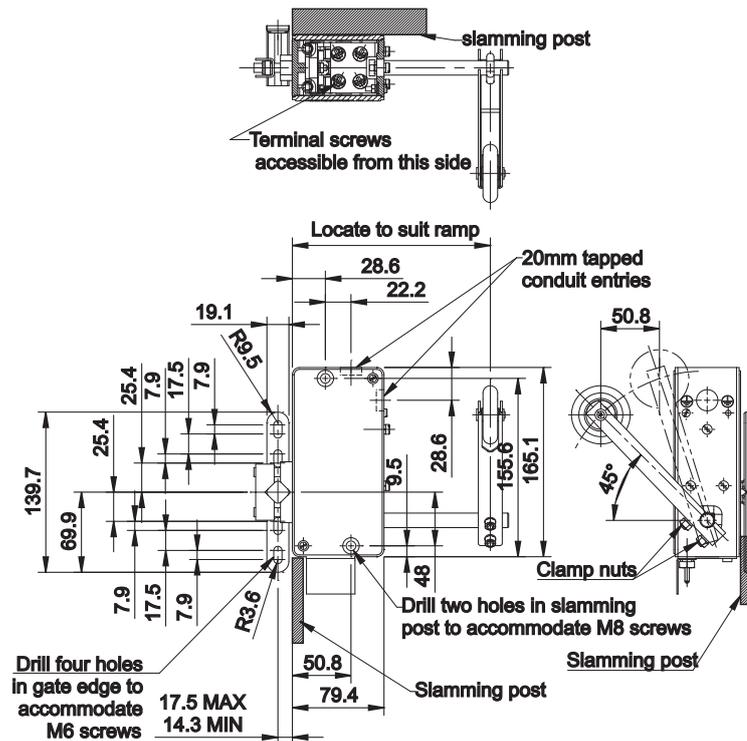


FIGURE 2 (VL10 Left Hand)

VL10 GATELOCK LEFT HAND
 i.e. WITH DOOR CLOSING TO
 LEFT FACING THE LIFT WELL



APPLICATION

The VL10 gatelock is robustly constructed for installation on lift landings with side closing single collapsible gates or single sliding doors.

ENVIRONMENT

VL10 is suitable for application in all normal indoor locations. Abnormal locations involving water spraying or splashing, chemical fumes and ignitable or explosive gases or dusts, require more detailed consideration. If in doubt concerning location or installation, consult the manufacturers.

OPERATION

The gatelock should be used in conjunction with a suitable retiring ramp. (Dewhurst Type FR21 is suitable for this application).

When the landing door/gate is closed, the beak enters the lock and engages with an insulated cam which carries contacts that then complete a primary circuit (A). When the ramp clears the lock roller the operating arm of the gatelock falls forward allowing the locking plate to move downward, trapping the beak in position. The beak locking action is accompanied by the completion of a secondary circuit (B), but only if the primary circuit has been made. Lift movement will only be possible when both circuits are made.

MECHANICAL INSTALLATION

The gatelock must be installed with the beak and operating arm below the lock centreline and with the conduit entries at the top. Check that the gatelock has been assembled to suit the handing required.

The gatelock must be mounted with the beak entry face in line with the slamming post but not in front of it. Use dimensional data supplied to mark the fixing positions for the lock on the slamming post and also to mark the centre line of the beak carrier on the gate edge channel. Drill fixing holes in slamming post and secure lock with two M8, rustproof, counter-sunk head screws together with spring-washers and nuts.

If the gatelock is to be fitted to a collapsible gate, mark and drill the gate edge channel with four holes to accommodate M6 screws at the spacing indicated on Figure 1, positioning them 1.6mm from the top of the slots in the beak carrier. If a sliding door is to be used, obtain from the door supplier details of his recommended method of fitting the gatelock.

Fit the gatelock and beak as appropriate and check that the beak lines up with the entry in the lock. Adjust height of the beak carrier as necessary using slotted holes and make horizontal adjustment by moving the beak along the square shank of the carrier. Tighten all fixing screws and nuts. Slacken nuts on the operating arm clamp. Move the arm along the shaft until the roller centre line coincides with the centre line of the retiring ramp.

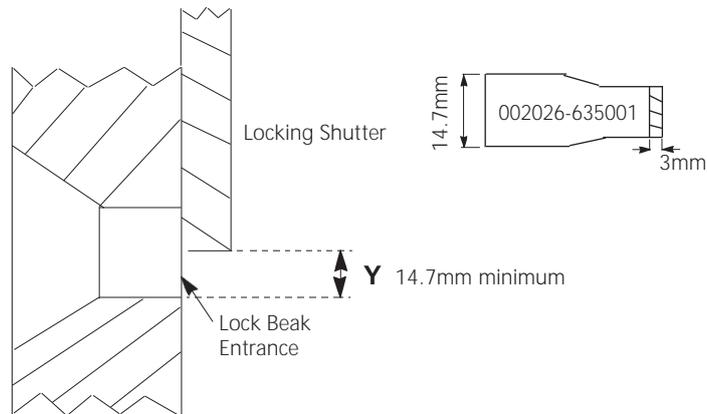
Set the operating arm at 45° to the lock body, with the roller above the centre line and towards the lift. Set the retiring ramp to move the roller a minimum of 50.8mm and a maximum of 61.9mm towards the lock body as illustrated. Tighten nuts on the clamp to compress fully the spring-washers but not more. Do not over-tighten the nuts.

If, when the operating arm is positioned on the shelf and excessive length remains beyond the arm, cut off surplus leaving between 6.3mm and 19.0mm of length.

RECOMMENDED MAINTENANCE

The periodic maintenance required to ensure safe smooth trouble free operation of the latching and locking mechanism fitted to VL series locks.

- 1) Check lock beak and lock box enclosure are positioned to ensure a free and full engagement in the closed door position.
- 2) Check lock beak for signs of wear due to misalignment. If excessive wear is present the beak should be replaced and the lock retested.
- 3) To check for wear within lockbox check dimension 'Y' shown below.

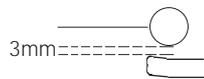


Measure the shutter distance 'Y' relative to the box beak aperture.

Operate the gatelock 6 times manually by pushing and releasing the gatelock operating arm. Dimension 'Y' should be a minimum of 14.7mm after each operation.

The dimensional checks on both 'Y' and the gap of contact set 'B' can be carried out using VL Gatelock gauge 002026-635001. We recommend measurement be part of the annual periodic lock inspection. The gauge should be used with the lock contact voltage isolated.

If dimension 'Y' has been recorded less than 14.7mm the internal contact gap of contact set B needs to be measured. The minimum operational gap is 3mm.



NOTE: Double Break Contact

A contact gap of less than 3mm requires the lock to be replaced.

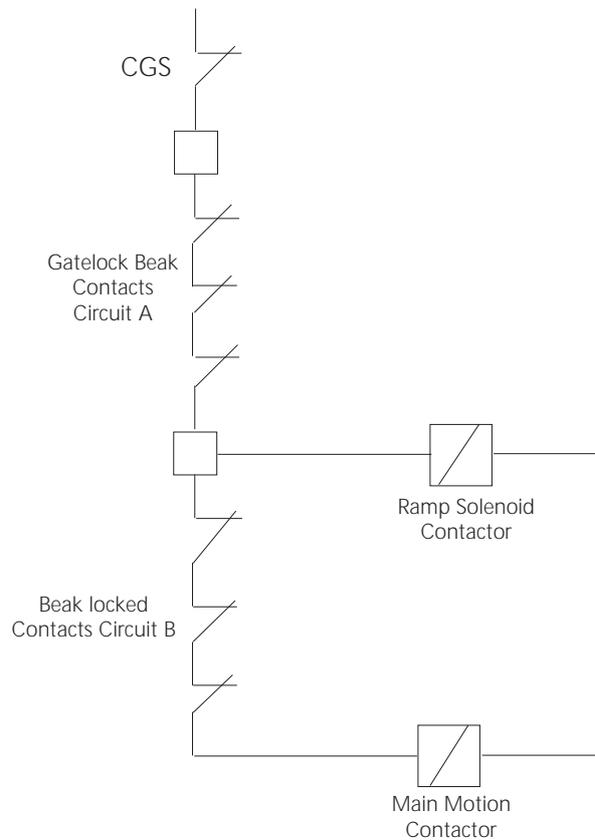
- 4) Check that the operating arm is set to approximately 45°. This should give an operating movement of between 50.8 to 61.9mm maximum. Check clamping nuts for correct torque.
- 5) Check electrical integrity and resistance of the main and prelock contacts, typical resistance 0.2 ohm.
- 6) Grease operating cam located within lock box enclosure, operating lock box shutter mechanism. Recommend Shell Albida RL2 or equivalent.

ELECTRICAL CONNECTIONS TO LIFT SYSTEM

Ensure main and control supplies are isolated.

The lock must be applied to the lift control system in such a way as to prove circuits A and B are both closed and remain closed prior to and during any lift movement.

FIGURE 3



Remove front cover from the lock. Utilise one of the two 20mm tapped conduit entries to bring wires into the gatelock. Ensure conduit termination is tight and secure. If flexible conduit is utilised, a separate earth wire must be installed in the conduit and must be securely connected to a suitable earth terminal in the electrical installation. Plug unused conduit entry.

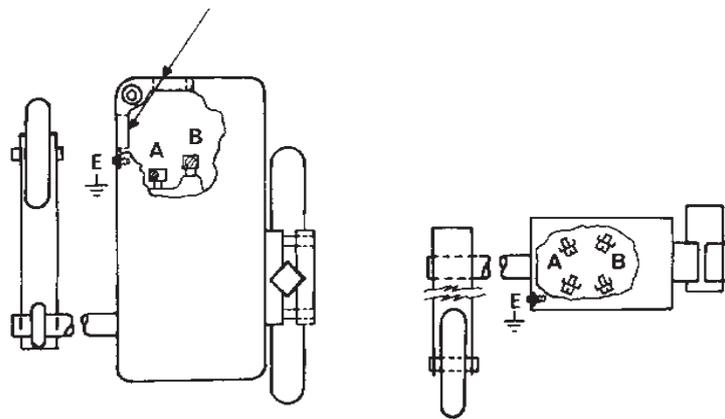
Connect primary circuit using beak contact terminals A and secondary circuit using ramp contact terminals B. Connect earth wire to terminal E. See Figure 4.

Replace front cover and tighten securing screws.

CONTACTS

Both sets of contacts are self-aligning and have a self-cleaning action with positive knock-off feature.

FIGURE 4 20mm tapped conduit entries



Notes:

1. Roller operating force
0.9kgf.
2. No cantilever load to be applied
to shaft.