



Installation and setting instructions

Gatelock

Type VL20

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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 on **+44 (0)20 8744 8283/8227/8240** during office hours.

Dewhurst UK Limited

Unit 9, Hampton Business Park - Feltham - TW13 6DB - UK

Tel: +44 (0)20 8744 8200 Fax: +44 (0)20 8744 8299

Email: info@dewhurst.co.uk www.dewhurst.co.uk

ENVIRONMENT

VL20 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 (Dupar 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.

MECHANICAL INSTALLATION

The gatelock must be installed with the beak and the operating arm below the lock centre line and with the conduit entries at the top. Check that the gatelock has been assembled to suit the handing required. Cut off unrequired shaft to ensure free action against mounting post.

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, countersunk-head screws together with spring-washers and nuts.

If the gatelock is to be fitted to a collapsible gate, mark and drill the 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. If necessary, further outward extension of the roller can be achieved by slackening nuts X and Y and positioning roller as necessary. Tighten nuts X and Y. See Figure 2.

Set the operating arm at 45° to the lock body, with the roller above the centre line and towards the lift well. Set the retiring ramp to move the roller a minimum of 44.5mm and a maximum of 57.2mm 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.

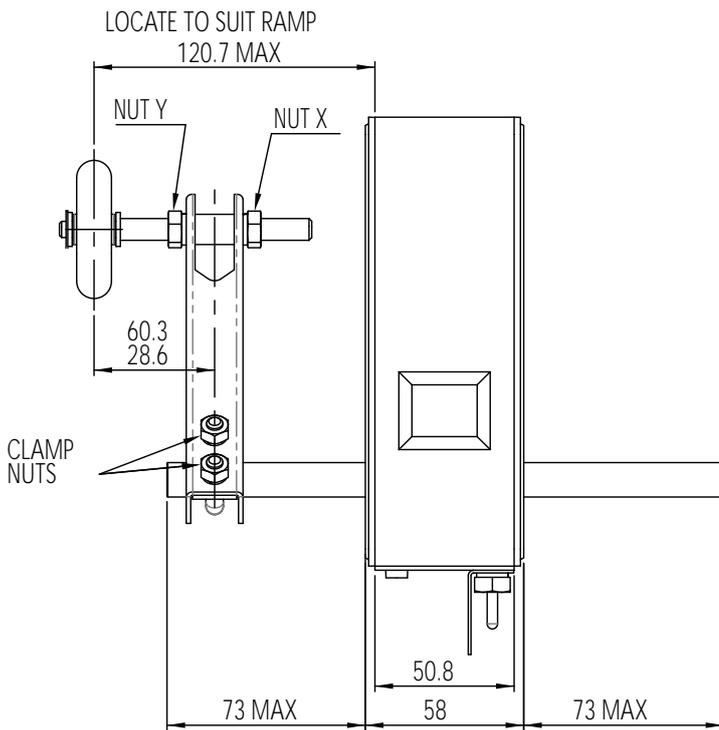
If, when the operating arm is positioned on the shaft an excessive length remains beyond the arm, cut off surplus leaving between 6.3mm and 19.0mm of length.

ELECTRICAL CONNECTIONS

Ensure main and control supplies are isolated.

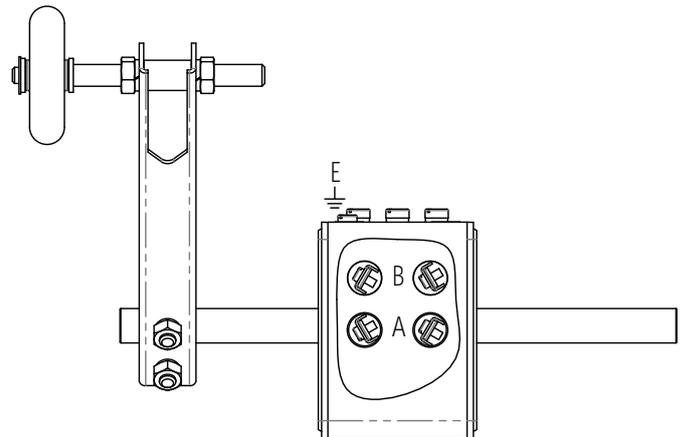
Remove front cover from the lock. Utilise one of two 20mm tapped conduit entries to bring wires into the gatelock. Ensure conduit termination is tight and secure. If flexible conduit is utilised, a separate earth wire must be installed in the conduit and must be securely connected to a suitable earth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

FIGURE 2



All dimensions in mm

FIGURE 3



Notes:

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

Connect primary circuit using beak contact terminals A and secondary circuit using ramp contact terminals B. Connect earth wire to terminal E. See Figure 3.

Check that the cables do not impede movements of the mechanism and that the springs controlling the locking plate are correctly located.

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.

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. 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.
4. Check electrical integrity and resistance of the main and prelock contacts, typical resistance 0.2 ohm.
5. Grease operating cam located within lock box enclosure, operating lock box shutter mechanism. Recommend Shell Albida RL2 or equivalent.