

**NEXT DAY
DESPATCH****SOLE UK
IMPORTER****100 SERIES
COMPATIBLE****IP32
RATED**

Chain



24V



100N/10 kg



570mm

**DO NOT USE FOR
SMOKE VENTILATION**If you do require smoke control
products or advice – please call us

ABOUT THIS ACTUATOR

The WML 825 electric actuator with zinc housing with stainless steel chain. Only suitable for smoke ventilation use on a previously certified installation. Units must be a like for like replacement.

Mounting behind a permanent ventilation flap, means the actuator is not visible when the window is closed.

PRODUCT HIGHLIGHTS

- ✓ Low maintenance
- ✓ 3000N locking force
- ✓ Electronic disconnection to avoid overload
- ✓ Supplied with support and connecting brackets
- ✓ CE marked device

SUITABLE FOR...



VELUX roof windows GGL and GGU from 206/F06 to 810/U10 and VL from size 035.

COLOUR OPTIONS



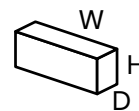
Grey



Bespoke
colours upon
request

ACTUATOR DIMENSIONS

WIDTH: 520mm
HEIGHT: 30mm
DEPTH: 87mm

**TECHNICAL DATA >>>****PRODUCT CODES >>>**

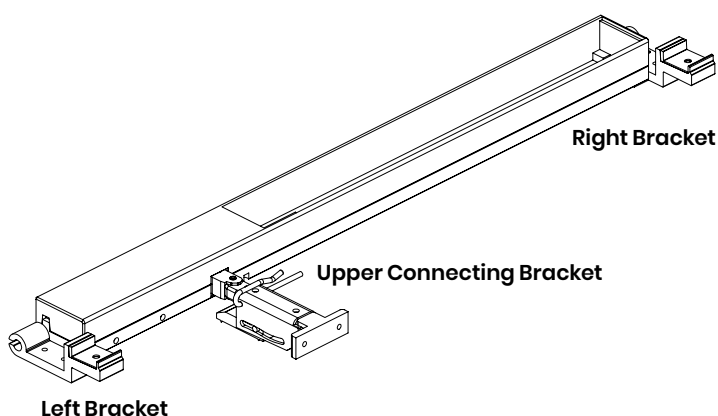


TECHNICAL DATA

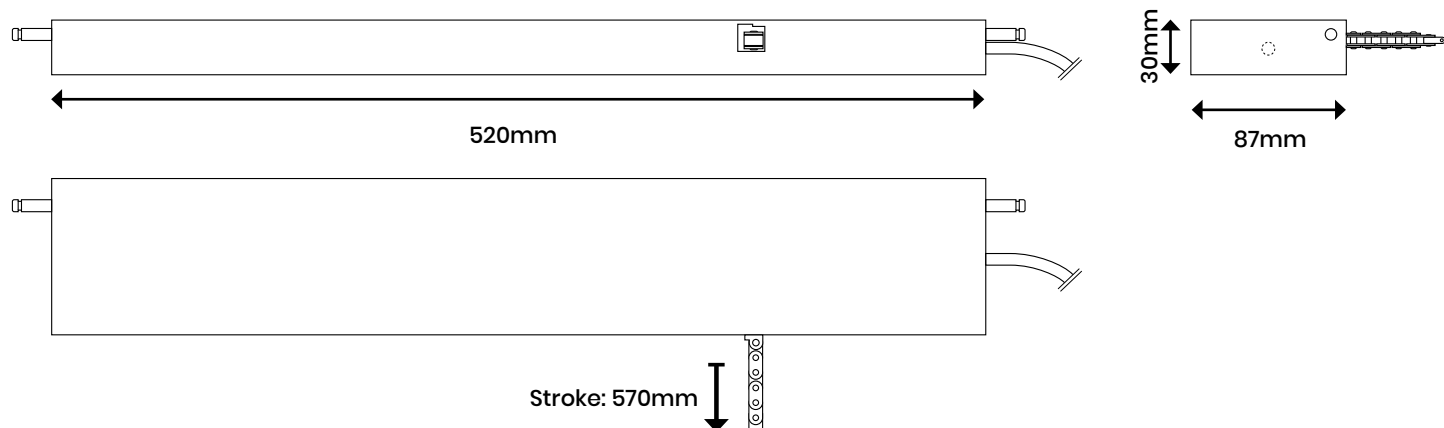
	WML 825
Voltage Supply	24V
Thrust Force	100N/10 kg
Traction Force	Up to 225N/22.5 kg
Stroke Adjustment	Various positions up to 570mm
Minimum Window Width	590mm
Maximum Window Width	1300mm (use an actuator with two pushpoints if wider)
Absorbed Current	1.0 amps
Operating Temperature	-25°C to +75°C
Wiring	2 Core + Earth
Speed	~ 10.5mm/s
Protection Class	IP32
Weight	1.4 kg
Cable Length (standard)	1.5m

WHAT'S IN THE BOX?

- ✓ WML 825 Actuator
- ✓ Upper Bracket Connecting Pack
- ✓ Left & Right Brackets
- ✓ Fitting/Drilling Template
- ✓ Installation and User Guide
- ✓ Safety Plate



DIMENSIONS



ACTUATOR CODES

WML 825 Actuator 24V
ACWM-WML-024V-0001

230V

RELATED PRODUCTS AND SERVICES

24V



VENTEC 100
SERIES CONTROL



PROJECT
COMMISSIONING



INSTALLATION
& MAINTENANCE



230V - 24V
CONVERTOR



24V TF SERIES
CONTROL



WEATHER
STATION

WINDOW OPERATION FORCE CALCULATION

TOP, BOTTOM OR PIVOT HUNG WINDOWS

The formula for calculating the load the actuator has to move for top hung, bottom hung and pivot windows is the following:

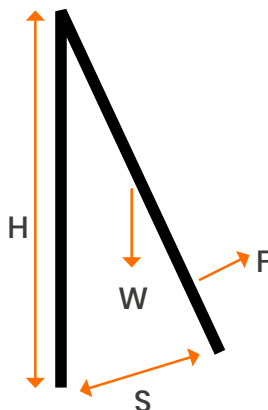
$$F = \frac{W}{2} \times \frac{S}{H} \times 10$$

F = Force required (N)

W = Weight of the window (kg)

S = Opening stroke (mm)

H = Height of the window (mm)



EXAMPLE: 60 kg Weight / 1000mm Height / 500mm Stroke

$$F = 60/2 \times 500/1000 \times 10$$

$$F = 30 \times 0.5 \times 10$$

$$F = 150 \text{ newtons}$$

IMPORTANT: For installation on a pivoting window the given height is to be considered H/2.

IMPORTANT: The indicated loads do not include the force exerted by wind or other extreme weather conditions. If the actuator is to be installed in areas that may be subject to these conditions, contact our technical department to discuss your requirements.

The actuator rotation angle is usually half the height of the opening angle of the window. Check that there are no obstacles to the rotation of the actuator in order to prevent damage to it.

For actuators with non pivoting brackets, the height of the window must not be below a certain height (see individual product details) in order to prevent excessive chain bending. Please contact our sales support team for more details.

If the window width is greater than 1.5m we suggest using an actuator with two thrust points.

DOMES AND SKYLIGHTS

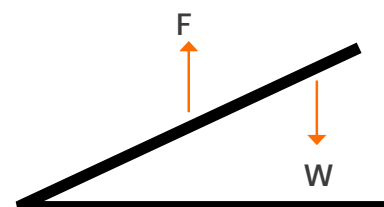
IMPORTANT: When calculating the required force for domes and skylights, Snow Load must be added to the weight of the window leaf (W).

The formula for calculating the load the actuator has to move for domes and skylights is the following:

$$F = \frac{W}{2} \times 10$$

F = Force required (N)

W = Weight of the window (kg)



EXAMPLE: 110 kg Weight / 1000mm Height / 500mm Stroke

$$F = 110/2 \times 10$$

$$F = 55 \times 10$$

$$F = 550 \text{ newtons}$$

SKYLIGHTS: The opening can be hung on one side or have a central axis of rotation. In the latter case, you have to consider the distance between the axis of rotation and the point of application of the actuator as the frame height. A Velux type of opening on a horizontal roof or roof sloping up to 30° horizontally weighs 50% on the hinges and 50% on the actuator. In the case of centre rotation, the weight is practically nothing and is determined only by the windows frictions.

If the window width is greater than 1.5m we suggest using an actuator with two thrust points.

! IMPORTANT: If the window frame is accessible, or installed at a height of less than 2.5m from the ground, an emergency stop system must be fitted to prevent the crushing or entrapment of clothing or body parts inserted between the moving and fixed elements of the window frame.