



**NEXT DAY
DESPATCH**



**SOLE UK
IMPORTER**

**100 SERIES
COMPATIBLE**

**RATED
UP TO IP68**

**SYNCHRO
OPTION**



Linear Rod



24V or 230V



Up to 800N/80 kg



200, 400, 600, 800 or 1000mm

**DO NOT USE FOR
SMOKE VENTILATION**



If you do require smoke control products or advice – please call us



ABOUT THIS ACTUATOR

The Topp S80 linear electric actuator, with self-aligning tilting movement, is available in 24V and 230V models. Preset for the synchronous operation of two actuators on the same window. Available with 200, 400, 600, 800 or 1000mm stroke lengths. IP68 protection degree for 200 and 400mm stroke options. IP65 for 600, 800 and 1000mm stroke options.

PRODUCT HIGHLIGHTS

- ✓ High protection degree
- ✓ Low maintenance
- ✓ Supplied with brackets and fixings for top hung and louvered windows
- ✓ CE marked device

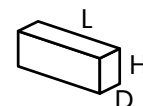
SUITABLE FOR...



COLOUR OPTIONS

- Anodized Silver
- Bespoke colours on request

ACTUATOR DIMENSIONS



LENGTH: 364mm (200mm stroke)
564mm (400mm stroke)
794mm (600mm stroke)
1024mm (800mm stroke)
1224mm (1000mm stroke)

HEIGHT: 76mm

DEPTH: 43mm

TECHNICAL DATA >>>

PRODUCT CODES >>>

TECHNICAL DATA

	TOPP S80 24V	TOPP S80 230V
Thrust Force	800N/80 kg	800N/80 kg
Traction Force	800N/80 kg	800N/80 kg
Stroke Options	200, 400, 600, 800 or 1000mm	
Minimum Window Width	350mm	350mm
Maximum Window Width	1300mm (use two actuators if wider)	
Absorbed Current	1.0 amps	0.2 amps
Power	24 watts	28 watts
Operating Temperature	-20°C to +60°C	-20°C to +60°C
Time Rating	S2 of 3 min	S2 of 2 min
Limit Stop	Electronic	Electronic
Safety Stop	Electronic	Electronic
Wiring	2 Core + Earth	3 Core + Earth
Speed	~ 6.5mm/s	~ 6.5mm/s
Double Insulated	No	Yes
Protection Class	200, 400mm stroke – IP68 600, 800, 1000mm stroke – IP65	
Synchronisation Option	Yes	Yes
Parallel Connection Option	Yes	Yes
Weight	1.8 kg (200mm), 2.4 kg (400mm), 2.9 kg (600mm), 3.5 (800mm), 4 kg (1000mm)	
Power Cable	Power supply cable not included	

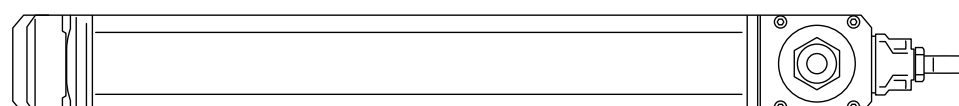
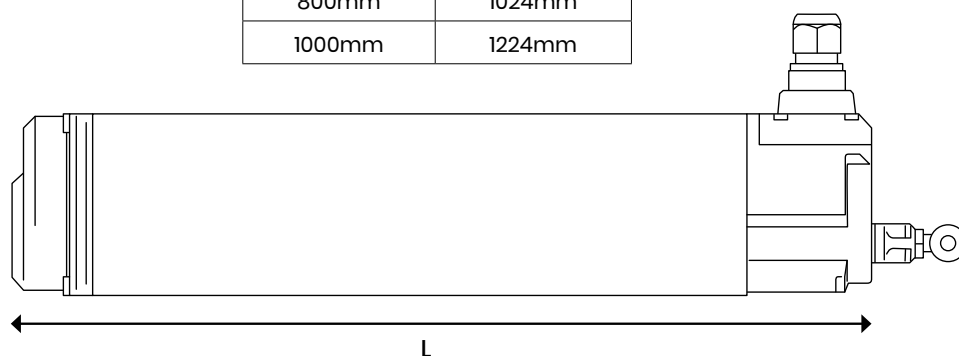
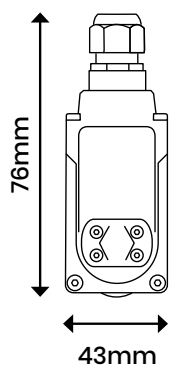


WHAT'S IN THE BOX?

- ✓ TOPP S80 Actuator
- ✓ Upper Bracket Connecting Pack
- ✓ Actuator Support Bracket
- ✓ Fitting/Drilling Template
- ✓ Installation and User Guide
- ✓ Safety Plate

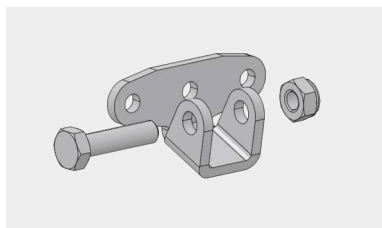
DIMENSIONS

STROKE LENGTH	MEASUREMENT L
200mm	364mm
400mm	564mm
600mm	794mm
800mm	1024mm
1000mm	1224mm

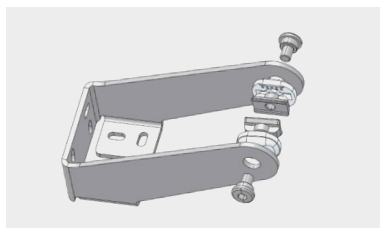


PRODUCT CODES >>>

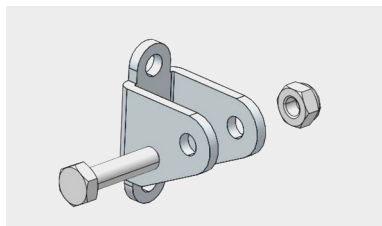
BRACKET & ACCESSORY CODES



Upper Bracket
Available on request



Supporting Bracket
Available on request



Supporting Bracket for Louvres
Available on request

ACTUATOR CODES

S80 Linear Stem Actuator 24V

Stroke	Code
200mm	Available on request
200mm (louvre)	Available on request
400mm	Available on request
400mm (louvre)	Available on request
600mm	Available on request
800mm	Available on request
1000mm	Available on request

S80 Linear Stem Actuator 230V

Stroke	Code
200mm	Available on request
200mm (louvre)	Available on request
400mm	ACTO-S80-230V-SI01
400mm (louvre)	Available on request
600mm	ACTO-S80-230V-SI02
800mm	Available on request
1000mm	Available on request

230V

RELATED PRODUCTS AND SERVICES

24V



VENTEC 100
SERIES CONTROL



VENTEC DS
SWITCH



230V TF SERIES
CONTROL



PROJECT
COMMISSIONING



INSTALLATION
& MAINTENANCE



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:

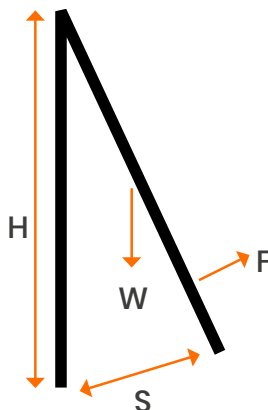
$$F = \frac{W}{2} \times \frac{S}{H} \times 10$$

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

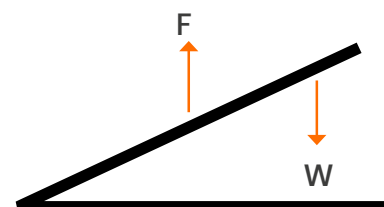
IMPORTANT: When calculating the required force for domes and skylights, Snow Load must be added to the weight of the window leaf (W).

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.