



**NEXT DAY
DESPATCH**



**UK
IMPORTER**

**400 SERIES
COMPATIBLE**

**IP30
RATED**

**BMS
INPUT**

**RADIO
OPTION**



TYPE

Dual Push Point Chain



VOLTAGE

24V



THRUST

600N/60 kg



STROKE

300mm

**DO NOT USE FOR
SMOKE VENTILATION**



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



ABOUT THIS ACTUATOR

The UCS Twin Vega 24V actuator uses two double link, articulated stainless steel chains enclosed in a diecast aluminum casing. Available in anodised grey, or, black or white painted options. Mounting bracket options to suit top hung, bottom hung and skylight windows. The low profile design and high power to size ratio makes this an ideal choice for concealed / built-in installations and is particularly suitable for very wide windows.

PRODUCT HIGHLIGHTS

- ✓ High performance to size ratio
- ✓ Small profile allows concealment in curtain walls
- ✓ Manual closing position regulation not required
- ✓ BMS input
- ✓ Integrated speed synchronization control board
- ✓ Parallel connection option
- ✓ Electronic stop in case of overload
- ✓ CE marked device

SUITABLE FOR...



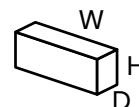
IMPORTANT: If installed on PVC windows, the profile must be reinforced.

COLOUR OPTIONS

- Black
- White
- Grey
- Bespoke colours on request

ACTUATOR DIMENSIONS

WIDTH: 996mm
HEIGHT: 36mm
DEPTH: 69mm



TECHNICAL DATA >>>

PRODUCT CODES >>>

24 HR DESIGN **TECHNICAL DATA**

	TWIN VEGA 24V
Voltage Supply	24V
Thrust Force	600N/60 kg
Traction Force	600N/60 kg
Locking Force	5000N
Stroke Adjustment	300mm
Minimum Window Height (actuator to hinge)	900mm – Windows less than 900mm require pivoting brackets
Absorbed Current	1.4 amps
Operating Temperature	-10°C to +60°C
Time Rating	50%
Limit Stop	Electronic
Safety Stop	Electronic
Wiring	2 Core, (2+3 Core for F-Signal version)
Speed	~ 9mm/s
Protection Class	IP30
Parallel Connection Option	Yes (by polarity inversion)
Cable Length (standard)	3m



WHAT'S IN THE BOX?

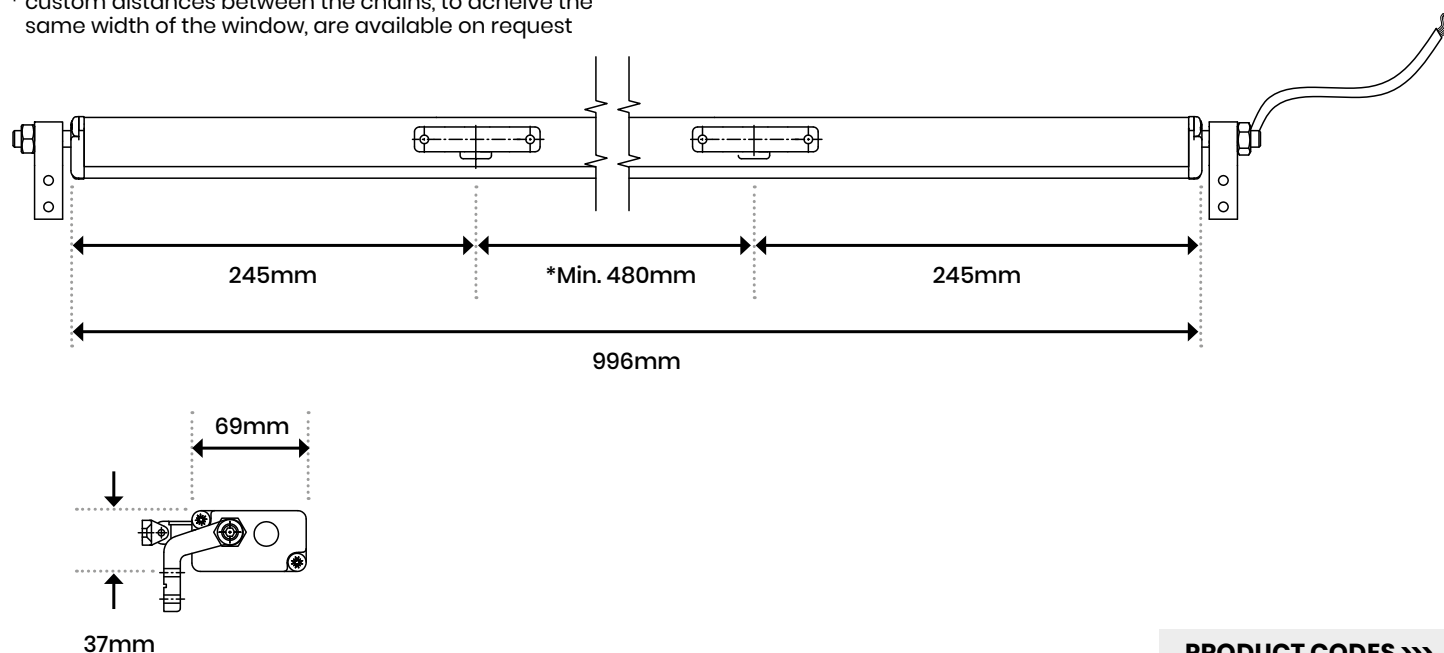
- ✓ UCS Twin Vega Actuator
- ✓ Upper Bracket Connecting Pack
- ✓ Installation and User Guide
- ✓ Safety Plate

UCS TWIN VEGA: Alternative Option Available on request

F-SIGNAL TWIN VEGA 24V	Provides opening and closing feedback signal (free potential, open/close), activated by the current limit. 24V only.
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DIMENSIONS

* custom distances between the chains, to achieve the same width of the window, are available on request



PRODUCT CODES >>>

BRACKET & ACCESSORY CODES

Installation without brackets is possible for windows with pivoting hinges, only if the window height is at least 900mm



Upper Bracket Pack (included)
Mill AXUC-VEG-BUPP-0001



Pivoting Bracket Kit
Grey AXUC-VEG-BPIV-GR01



Bottom Hinged Window Bracket Kit
Available on request

ACTUATOR CODES

UCS TWIN VEGA Actuator 24V

Black	ACUC-TWI-024V-BL01
White	ACUC-TWI-024V-WH02
Grey	ACUC-TWI-024V-SI03

UCS TWIN VEGA Actuator 230V

Black	ACUC-TWI-230V-BL01
White	ACUC-TWI-230V-WH01
Grey	ACUC-TWI-230V-SI01

UCS TWIN VEGA BMSline Advanced

Grey 24V	ACUC-TWI-A24V-GR01
Available on request	

UCS TWIN VEGA BMSline Plus

Grey 24V	ACUC-TWI-P24V-GR01
Available on request	

UCS F-Signal TWIN VEGA (24V only)

Available on request

230V

RELATED PRODUCTS AND SERVICES

24V



PROJECT
COMMISSIONING



INSTALLATION
& MAINTENANCE



230V - 24V
CONVERTER



VENTEC DS 400
SWITCH



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:

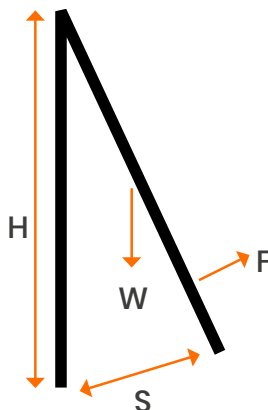
$$F = \frac{W}{2} \times \frac{S}{H} \times 10$$

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

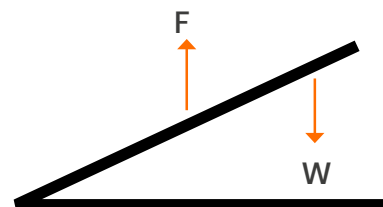
IMPORTANT: When calculating the required force for domes and skylights, Snow Load must be added to the weight of the window leaf (W).

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.