



## WMU 836 Chain actuator 300N



Natural  
ventilation



Smoke ventilation  
EN 12101-2



Smoke  
ventilation B300

24V

±24V control



MotorLink®



UL certification  
– Actuators

2.11

### Description

- designed for surface mounting
- for comfort ventilation
- for smoke ventilation DIN 18232-3
- for smoke ventilation EN 12101-2: The EN-actuators are approved according to EN 12101-2 with selected profiles
- to be used with all window types
- to be used together with ±24V control units or control units with MotorLink®
- can be used together with espagnolette WMB
- synchronization of up to four window actuators – no need for an external synchronization module
- genuine position feedback and three speeds when using control unit with MotorLink®
- soft close function
- built-in electronic load switch-off/end stop
- electronic actuator with micro controller
- the actuator has an integrated reverse function to ensure a prolonged life span of the window gaskets
- easy mounting

### Actuator variants

The actuator is available in four different versions: single actuator (-1), double actuator (-2), triple actuator (-3) and quad actuator (-4).

The synchro actuators (-2, -3 and -4) are equipped with a synchronization function, in which the actuators communicate directly with each other, which ensures the actuators operate at exactly the same speed and position. On large windows up to four actuators can be mounted on the

same window – with no need for an external synchronization module.

### Opening speeds

The number of window actuator running speeds (up to three) depends on the type of control unit to which the window actuator is connected.

#### One speed:

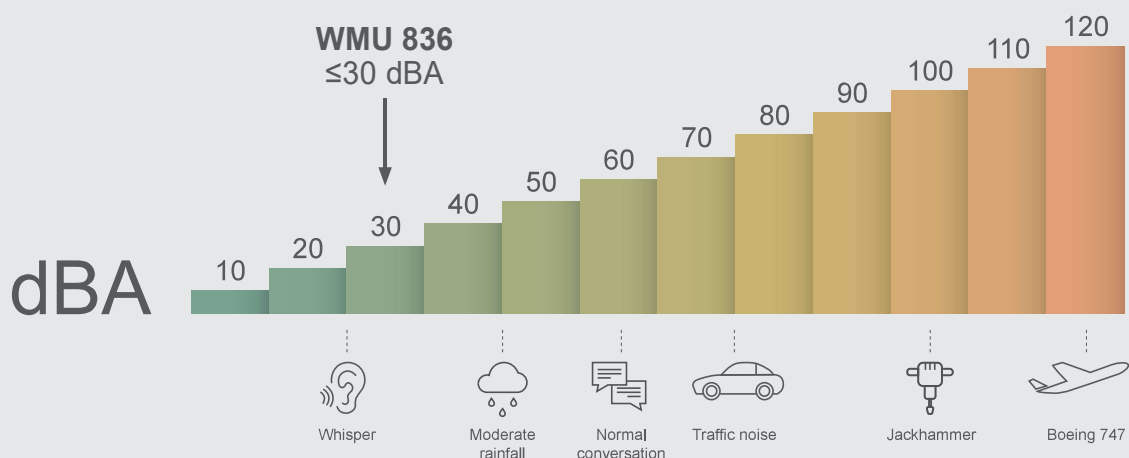
Actuators connected to ±24 VDC control units (e.g. WUC) can be run with one speed – see the following page for opening speed.

#### Three speeds:

Actuators connected to control units with MotorLink® (e.g. WCC) can be run with three different speeds:

- automatically control speed – actuators run slowly and almost soundlessly.
- manual control speed – actuators run faster and more audibly.
- H&S and safety control speed – actuators run fastest. H&S control always has highest priority.

Technical specifications	
Pressure force	See variant table and stroke / force diagram
Traction force	300N
Locking force	3000N
Chain stroke	1' 3 3/4", 1' 11 5/8", 2' 7 1/2" and 3' 3 3/8"
Opening speed	3/16 in/s - 1/2 in/s
Sound pressure level	≤30 dBA (operational speed: 3/16 in/s), ≤45 dBA (operational speed: 1/2 in/s)
Window types	Tophung, bottomhung, pivot and turning window - vent size should be confirmed with the window supplier and WindowMaster
Nominal voltage	24 VDC (max. 10% ripple)
Voltage	20 - 36 VDC
Open circuit voltage	Max. 36 VDC
Current consumption	Max. 1,0A
Consumption of power	Max. 24W
Operating conditions	+23°F – +113°F, max. 90% relative humidity (not condensing)
Switch-on-duration	ED 40% (max. 4min. per 10min)
Material	Anodised aluminium housing with stainless steel chain WMU 836: with 16' 4 7/8" grey silicone cable, 3-cores, AWG 19 WMU 836 UL: with 16' 4 7/8" grey UL approved cable, 3-cores, AWG 18
Colour	Anodized aluminium. RAL colours available at an additional price
Size	1 5/16" x 1 7/8" (H x D), length (L) depending on chain stroke – see table
Weight	1' 3 3/4": 4.9lbs, 1' 11 5/8": 5.7lbs, 2' 7 1/2": 6.5lbs, 3' 3 3/8": 7.5lbs
IP rating	IP32
Fire test	Testet according to DIN 18232-3, part 3.6 (30 min./572°F)
EN approval	Approved according to EN 12101-2 with selected profiles – please contact WindowMaster for further information B300 tested according to EN 12101-2
Certification	Actuators with "UL" in the article no. are UL certified accordingly to UL 325 and CAN/CSA-22.2 No. 247-14. Primarely used in USA and Canada.
Delivery includes	Actuator with 16' 4 7/8" cable
To be ordered separately	Actuator bracket and chain bracket
Note	We reserve the right to make technical changes and correct typing errors



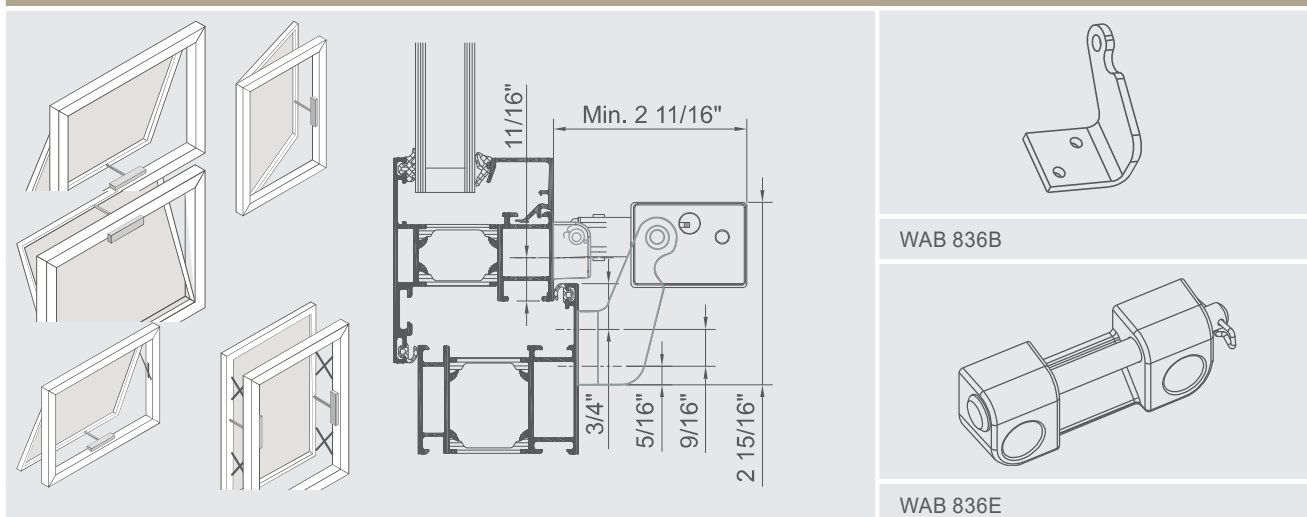
The sound pressure level was measured externally by The Danish Technological Institute. The measurements have been carried out in a large regular room size 7 x 14 x 2.4 m (W x L x H) with the ceiling covered with a standard sound absorbent material. The A-weighted sound pressure levels have been measured at a distance of 1 meter away from the surface of the actuators and at the height of 1.6 meters from the floor. The actuators were not installed on any window profile nor added any load. The full opening and full closing sound of the actuators have been measured and the result represents the average of the measurements.

Description of product code composition				
WMU 836	-n	xx	xxxx	0103
			Product version: 3	
			Stroke: 0400 = 1' 3 3/4", 0600 = 1' 11 5/8", 0800 = 2' 7 1/2", 1000* = 3' 3 3/8" (0400 = 400mm)	
		Certification		
		EN: For actuator approved according to EN 12101-2 the item number must contain EN. Notice: Are supplied with strokes of 1' 3 3/4", 1' 11 5/8" and 2' 7 1/2". UL: For UL certified actuator the item number must contain UL.		
	Actuator variant: 1 = single, 2 = double, 3 = triple, 4 = quad			
* 3' 3 3/8" is not supplied as EN-12101-2 approved actuator				
Example of product code				
WMU 836-2 EN 0600 0103		WMU 836 actuator, double synchronisation, EN 12101-2 approved, 1' 11 5/8" stroke, product version 3		

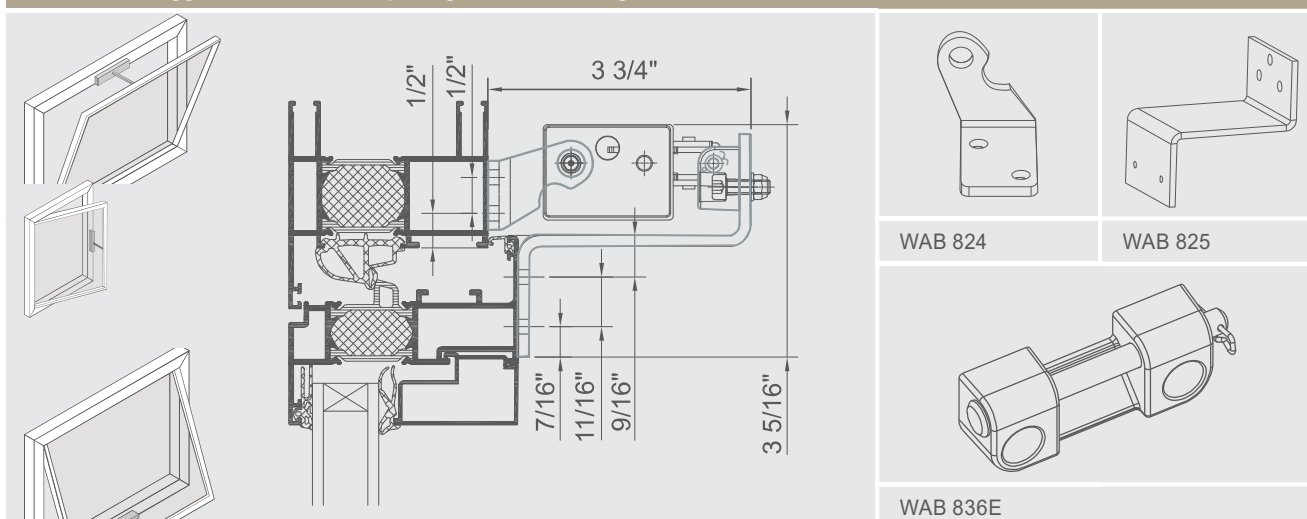
Items	Chain stroke [ft and in]	Compressive force [N] *(only bottom hung window)	Length (L)[ft and in] (incl. screws = 3/4")	Item no. Europe	Item no. USA/Canada
Single actuator	1' 3 3/4"	300	1' 10 3/8"	WMU 836-1 0400	WMU 836-1 UL 0400
	1' 11 5/8"	170	2' 2 5/16"	WMU 836-1 0600	WMU 836-1 UL 0600
	2' 7 1/2"	0*	2' 6 1/4"	WMU 836-1 0800	WMU 836-1 UL 0800
	3' 3 3/8"	0*	2' 10 3/16"	WMU 836-1 1000	WMU 836-1 UL 1000
Double actuator	1' 3 3/4"	300	1' 10 3/8"	WMU 836-2 0400	WMU 836-2 UL 0400
	1' 11 5/8"	170	2' 2 5/16"	WMU 836-2 0600	WMU 836-2 UL 0600
	2' 7 1/2"	0*	2' 6 1/4"	WMU 836-2 0800	WMU 836-2 UL 0800
	3' 3 3/8"	0*	2' 10 3/16"	WMU 836-2 1000	WMU 836-2 UL 1000
Triple actuator	1' 3 3/4"	300	1' 10 3/8"	WMU 836-3 0400	WMU 836-3 UL 0400
	1' 11 5/8"	170	2' 2 5/16"	WMU 836-3 0600	WMU 836-3 UL 0600
	2' 7 1/2"	0*	2' 6 1/4"	WMU 836-3 0800	WMU 836-3 UL 0800
	3' 3 3/8"	0*	2' 10 3/16"	WMU 836-3 1000	WMU 836-3 UL 1000
Quad actuator	1' 3 3/4"	300	1' 10 3/8"	WMU 836-4 0400	WMU 836-4 UL 0400
	1' 11 5/8"	170	2' 2 5/16"	WMU 836-4 0600	WMU 836-4 UL 0600
	2' 7 1/2"	0*	2' 6 1/4"	WMU 836-4 0800	WMU 836-4 UL 0800
	3' 3 3/8"	0*	2' 10 3/16"	WMU 836-4 1000	WMU 836-4 UL 1000
Actuators approved according to EN 12101-2 – contact WindowMaster					

Accessories	Item no.
Bracket set for frame mounting	WAZ 101
Bracket set for sash mounting	WAZ 102
Chain bracket for WMU 836 / 936	WAB 811
Actuator bracket for WMU 836 / 936	WAB 812
Actuator bracket for WMU 836	WAB 824
Z-Bracket for inward opening windows	WAB 825
Actuator bracket for WMU 836 / 936 / 866	WAB 836A
Actuator bracket for WMU 836 / 936 / 866	WAB 836B
Chain bracket for WMU 836 / 936	WAB 836E
Actuator bracket for WMU 836 – sash mounting	WAB 836P
Shortening electronically of chain	WKK
<b>See separate product sheets for further information.</b>	

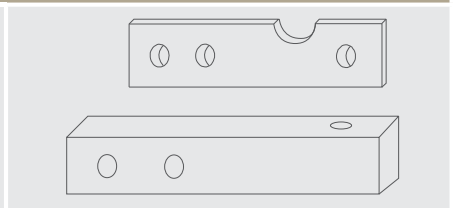
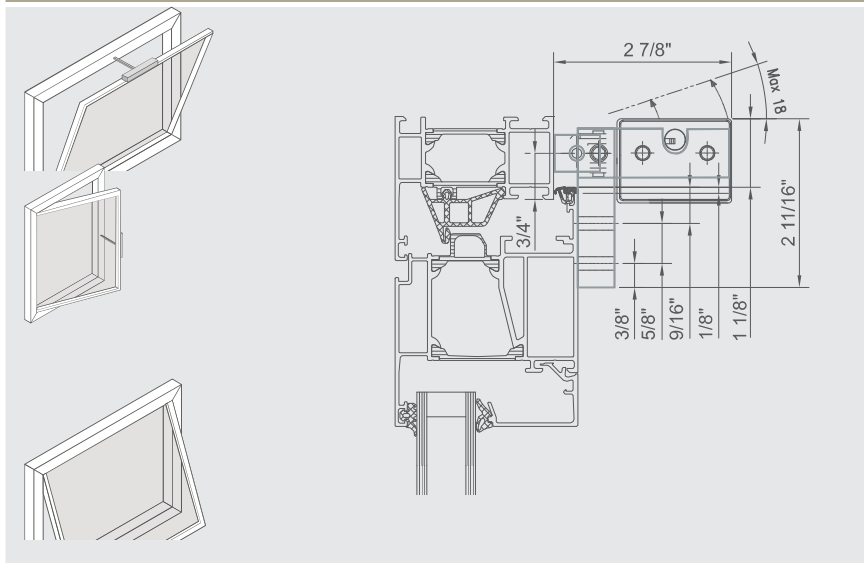
#### Installation suggestion 1 - Outward opening, frame mounting



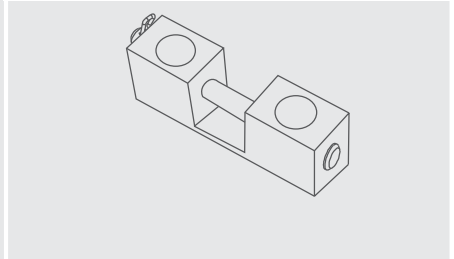
#### Installation suggestion 2 - Inward opening, frame mounting



### Installation suggestion 3 - Inward opening, sash mounting

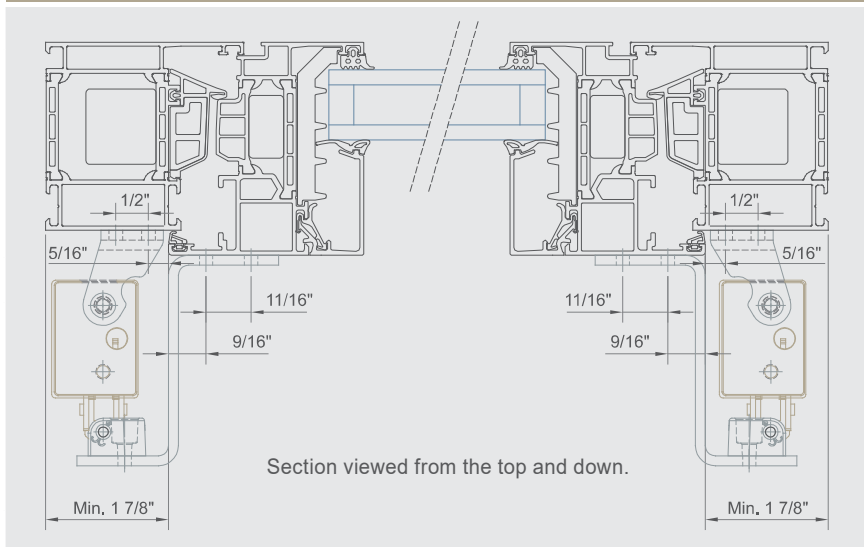


WAB 812

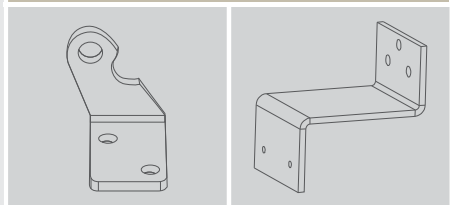


WAB 811

### Installation suggestion 4 (frame mounting)

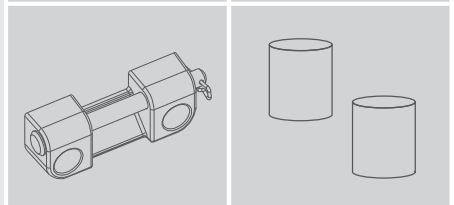


Bracket set WAZ 101 consists of:



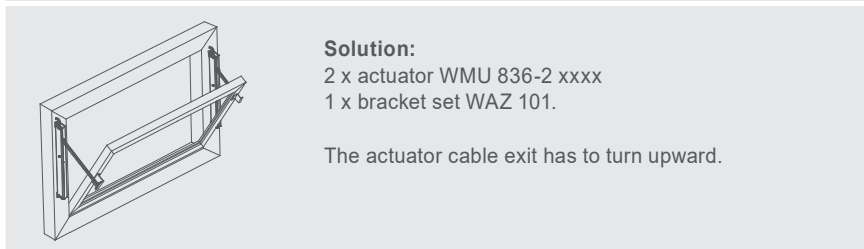
2 x WAB 824

2 x WAB 825



2 x WAB 836E

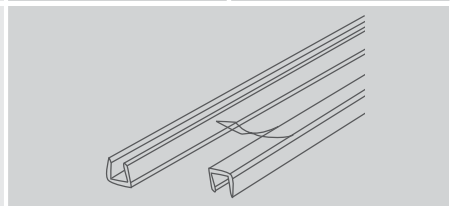
2 x brass tubes



#### Solution:

2 x actuator WMU 836-2 xxxx  
1 x bracket set WAZ 101.

The actuator cable exit has to turn upward.



2 x cable channels 1m

WMU 836

Chain actuator 300N

Installation suggestion 5 (sash mounting)

Section viewed from the top and down.

Solution:

2 x actuators WMU 836-2 xxxx  
1 x bracket set WAZ 102.

The actuator cable exit has to turn upward.

Bracket set WAZ 102 consists of:

2 x WAB 811
2 x WAB 836P

2 x cable channels på 1m

L = Length (incl. screws) – see table of items

Pressure force

Traction force

All dimensions are originally in metric units and converted into imperial units.  
For exact measurements please refer to documentation with metric values.

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