

WMX 504 / 504 UL / 804 / 804 UL

Chain actuator









±24V control



MotorLink[®]



UL certification

Description

- designed for surface mounting
- WMX 504 / 504 UL / 804 UL: for comfort ventilation
- WMX 804: for smoke and comfort ventilation
- 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
- external safety edge can be connected directly to the actuator (actuator version 'E')
- available with and without UL certification:
 - Europe: order without UL certification
 - USA / Canada: order with UL certification (version UL)
- 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
- the electronics in this actuator can be programmed to suit specific requirements – i.e. pressure- and traction force, stroke, speed/sound level - with the WAT 100 programming box, also possible following installation
- 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 patented 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

Pressure safety function

The risk of entrapment is reduced as the actuators are programmed to reverse if they encounter obstacles when closing. The set points determining when the actuators are to reverse are individually adjustable and can be adjusted after installation using the programming box WAT 100.





Opening speeds

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.

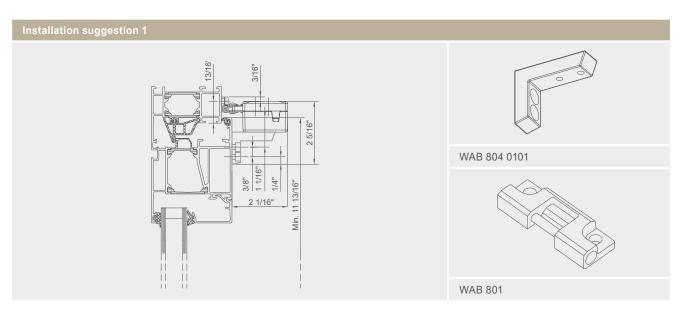
Locking force	3000N
Permitted short pressure load when chain has run to end stop	100N
Short pressure capacity on motor	Max. 150N (e.g. at the beginning of opening: sticky gasket, ice, wind speed)
Chain opening	1 15/16" – 9 13/16" increments of 25/64", maximum opening depends on the window construction
Opening speed	0.276 in/s (programmable 0.118 in/s up to 0.374 in/s)
Window types	Window types and sizes must be agreed with the window supplier and WindowMaster
Window width	Min. 1' 2 3/8", maximum width depends on the window construction and the number of window actuators
Window height	Min. 1' 3/8" / 1' 3 3/4" (see installation suggestions 1 and 3), maximum height depends on the window construction and the number of window actuators
Nominal voltage	24 VDC (max. 10% ripple)
Voltage	20 - 36 VDC
Max. open-circuit voltage	Max. 36 VDC
Current consumption	WMX 504 / 504 UL: max. 0.5A WMX 804 / 804 UL: max. 1.0A
Operating condition	+23°F – +113°F, max. 90% relative humidity (not condensing)
Switch-on-duration	ED 40% (max. 4min. per 10min)
Material	Lacquered zinc housing with 0.39" zinc cromate passivated steel chain and a 6' 51/64" 3-core 22AWG cable with fast-in/fast-on connectors for connection to the extension cable WLL WMX 504 / 804: 6' 51/64" grey silicone cable WMX 504 UL / 804 UL: 6' 51/64" UL listed/recognized cable in grey (grey actuator) or white (white actuator)
Colour	Aluminium (RAL 9006) or white (RAL 9010), other RAL colours available at additional price
Size	1' 1 1/16'' x 1 1/8'' x 1 5/8'' (W x H x D)
Weight	2.2 lbs
IP rating	IP20 – when surface mounted / IP32 – when concealed
Certification	Actuators with "U" in the article no. are UL certified accordingly to UL 325 and CAN/CSA-22.2 No. 247-14 and is supplied with UL approved cables UL STYLE 2464
SHE test	WMX 504 / 504 UL / 804 UL: not SHE tested WMX 804*: tested in accordance with DIN 18232-3, section 3.6 (30 minutes at 572°F) *The construction of the actuator is identical with WMX 802, which has passed the SHE test
Life span	Tested with 10,000 opening and closing movements
Delivery includes	Actuator with 6 51/64" cable with fast in/fast out connector for WLL cable
To be ordered separately	Brackets and WLL extension cable
Note	We reserve the right to make technical changes

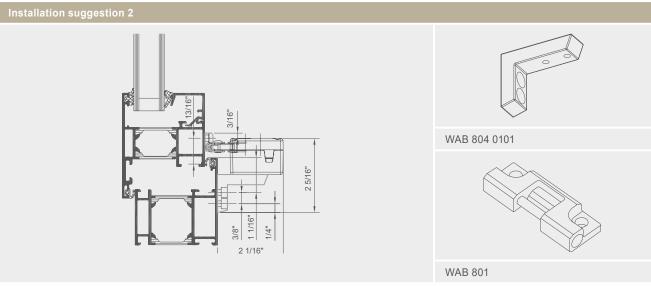
Brackets	Item no.
Chain bracket with tight-fitting bolt, WMX, for sash or frame	WAB 801
Chain bracket with split, for sash or frame	WAB 860
Chain bracket for wooden windows, for sash	WAB 867
Angle bracket for actuator, aluminium RAL 9006	WAB 804 0101
Angle bracket for actuator, white RAL 9010	WAB 804 1101
Z bracket for actuator WMX 504/804/526/826. Sash min. 2' 7 1/2"	WAB 805
Z bracket for actuator WMX 804 – for windows with offset sash min. 19/32"	WAB 807
See separate product sheets for further information.	

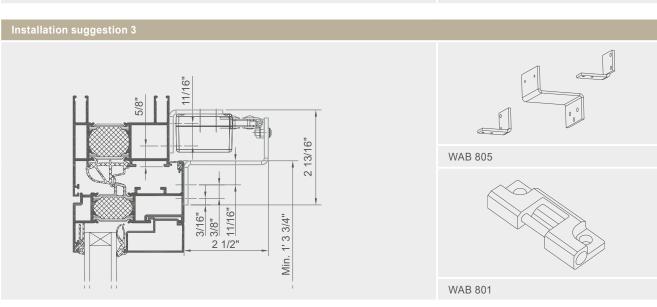
						d in sealed plastic packaging)	
WMX 504 WMX 804	n	n x	XXX	X	X	3	
						Product version: 3	
					Cer	tification: 0 = CE, U = CE + UL	
				Actu	ator h	nardware version: S = standard, E = with connection for pressure safety strip (E: not UL actuator)	
			Chain	open	ing: 1	15/16" - 9 13/16" increments of 25/64" (050 = 25/64")	
		Col	lour: G = grey, W = white				
	Acti	uator	variant:	1= sing	gle, 2 =	double, 3 = triple, 4 = quad	
Explanation	of pro	duct	code stri	ucture			

WMX 504-2G070E 03

WMX 504 actuator, double synchronisation, grey, 2 3/4" chain opening, with connection for pressure safety strips, with CE certification, product version 3

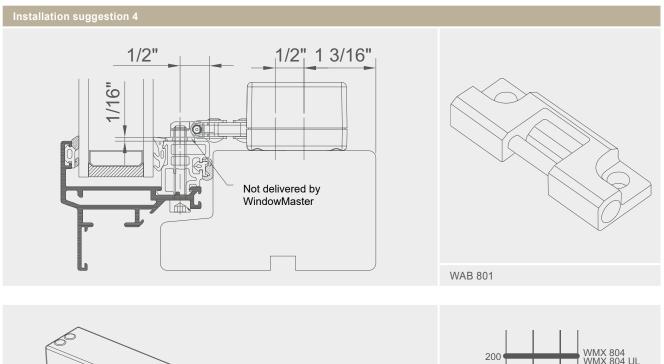


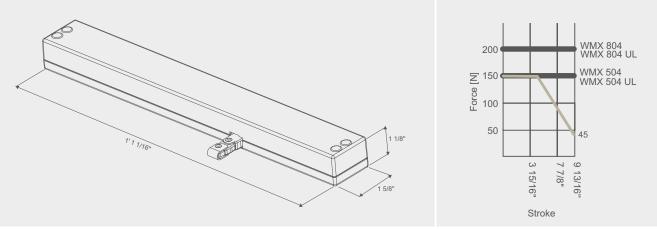




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All dimensions are originally in metric units and converted into imperial units. For exact measurements please refer to documentation with metric values.