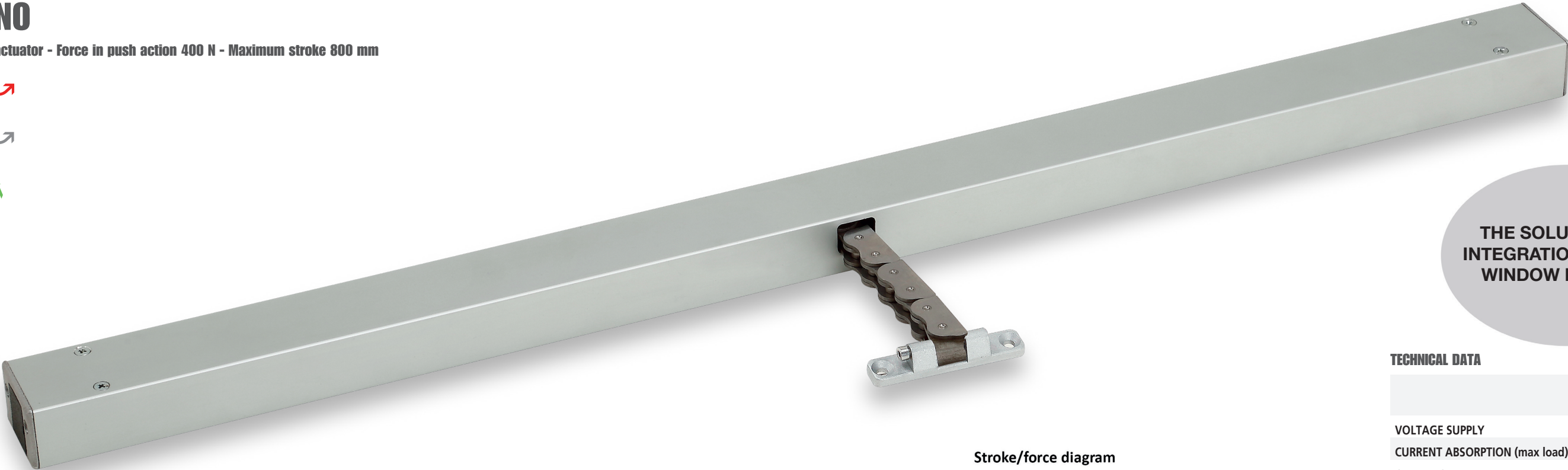


NANO

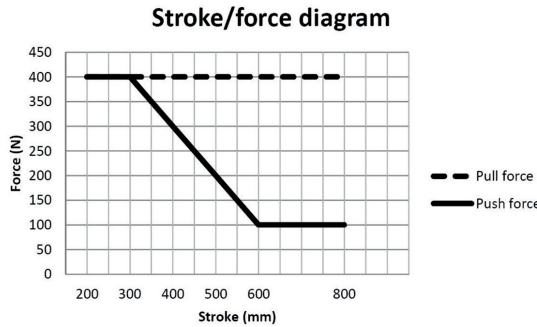
Chain actuator - Force in push action 400 N - Maximum stroke 800 mm



THE SOLUTION FOR  
INTEGRATION INTO THE  
WINDOW PROFILES

TECHNICAL DATA

	DC VERSION
VOLTAGE SUPPLY	24 Vdc ± 15%
CURRENT ABSORPTION (max load)	1.2 A
OPERATION	polarity inversion
MAX FORCE	400 N*
OPENING SPEED	4 - 14 mm/s**
CLOSING SPEED	4 mm/s
LOCKING FORCE	1900 N***
DUTY CYCLE	30%
PARALLEL CONNECTION	Yes
LIMIT STOP	Electronic
SAFETY STOP	Electronic
PROTECTION CLASS	IP40



800 mm stroke only for bottom hinged windows.

MAIN FEATURES

- The highest performance (400 N) in the smallest case (24 x 35 mm)
- Very silent operation
- Chain in double stainless steel links.
- Aluminum extrusion
- Electronic stop in the intermediate positions in case of overload.
- The **SYNCHRO NANO** versions are equipped with an integrated speed synchronization control board for the installation of more than one actuator on the same vent, avoiding any external control panel (max 4 actuators + E-Lock). SYNCHRO NANO versions provide also open/close feedback.
- The **SYNCHRO NANO F-SIGNAL** versions provide free potential opening and closing feedback signal (maintained contact), activated by the current limit.
- **NANO DC** is provided with 1,5 m cable (no synchronization, feedback signal and speed selection).
- Soft stop in close and fully open position
- Reduction of entrapment risk: stop and reverse action in case of obstacle detected
- Cable connection on both sides (Synchro versions)

- Suitable for installation with the additional locking device E-LOCK: NANO DC with E-LOCK Standard, SYNCHRO NANO with E-LOCK BMS (for easier wiring and sequence operation).
- Suitable for drawbridge application (Synchro versions).

OTHER VERSIONS UPON REQUEST:


- **NANO** versions with **IP42** protection class, for a higher resistance against atmospheric agents.


-   Versions for USA and Canada.

INSTALLATION REMARKS

- In case of vents with four-bar hinges, please contact our Technical Dept.
- If installed on PVC windows, the profile has to be reinforced.
- In case of Building Management System control, avoid repetitive commands in the same direction.

For further information contact our Tech. Dept.

 Suitable for installation on **Smoke and Heat Exhaust Ventilators (SHEV)** in conformity to European Standard **EN 12101-2** (pending test).

 The BMSline version is fully programmable (stroke, speed, force, ...); different scenarios are selectable with a connection to a computer through dedicated software. See BMSline section.

*\*Must be considered as a temporary load only, both in push and in pull.*

*\*\*Silent operation: opening speed depending on stroke (minimum speed to complete the opening within 60 s).*

*\*\*\*Installation with side bracket kit.*

*Synchro versions can provide Silent Ventilation (slower speed) activated by UCS C-SV Smoke Ventilation Control Panels.*

Part No. for DC VERSIONS

MODEL	SYNCHRO	FEEDBACK	CABLE	COLOUR	PART No. (Stroke)		
NANO DC	-	-	1,5 m 2 wires	SILVER ANODIZED BLACK RAL 9005 WHITE RAL 9010	200 mm	300 mm	400 mm
					41944Z	41947C	41950F
					41945A	41948D	41951G
					41946B	41949E	41952H
					500 mm	600 mm	800 mm
				SILVER ANODIZED BLACK RAL 9005 WHITE RAL 9010	41953I	41956L	41959O
					41954J	41957M	41960P
					41955K	41958N	41961Q
					200 mm	300 mm	400 mm
					41962R	41965U	41968X
SYNCHRO NANO DC	Yes	open/close	not provided, order separately	SILVER ANODIZED BLACK RAL 9005 WHITE RAL 9010	41963S	41966V	41969Y
					41964T	41967W	41970Z
					500 mm	600 mm	800 mm
				SILVER ANODIZED BLACK RAL 9005 WHITE RAL 9010	41971A	41974D	41977G
					41972B	41975E	41978H
					41973C	41976F	41979I
					200 mm	300 mm	400 mm
					41980J	41983M	41986P
					41981K	41984N	41987Q
					41982L	41985O	41988R
SYNCHRO NANO DC F-SIGNAL	Yes	free potential open/close	not provided, order separately	SILVER ANODIZED BLACK RAL 9005 WHITE RAL 9010	500 mm	600 mm	800 mm
					41989S	41992V	41995Y
					41990T	41993W	41996Z
					41991U	41994X	41997A

**NOTE:** brackets, not included - to be ordered separately

