

NAFA – SPRING RETURN DAMPER ACTUATOR

20 Nm | 2-POINT CONTROL, SPRING RETURN



The appearance of the product may differ from the illustration. Technical specifications are subject to change.

NAFA...20 (T) SERIES

NAFA series Spring Return actuators are developed for general air damper application, rotary valve and other devices which require a fail-safe function. During normal operation, the actuator motorized the device. In the event of power outage, the actuator springs back to its original position.

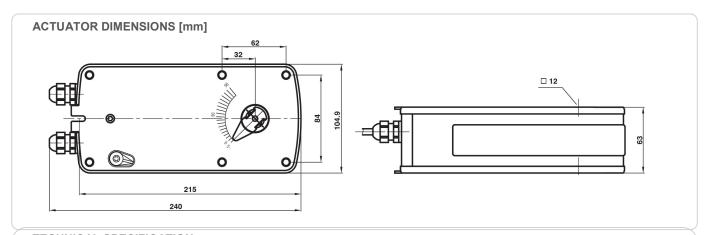
	Torque: 20 Nm
_	Damper size 4.0 m²
•	Power supply 24 V _{AC/DC} and 230 V _{AC}
	2-point control
	Shaft dimensions – Ø 1020 mm / square 714 mm
	Selectable direction of rotation
	Actuator with 1 m connection cable
	2 Fixed auxiliary switches (SPDT)
	Ręczne przestawianie przy użyciu korby
	Thermal sensor option available

MODEL SELECTION TABLE						
Model/type	Torque	Power supply	Running time	Auxiliary switches		
NAFA 1-20	20 Nm	24 V _{AC/DC} ± 10%	110140 s (spring return <30 s)	-		
NAFA 1-20S	20 Nm	$24 V_{AC/DC} \pm 10\%$	110140 s (spring return <30 s)	2 x SPDT (fixed + adjustable)		
NAFA 2-20	20 Nm	230 V _{AC} ± 10%	110140 s (spring return <30 s)	-		
NAFA 2-20S	20 Nm	230 V _{AC} ± 10%	110140 s (spring return <30 s)	2 x SPDT (fixed + adjustable)		



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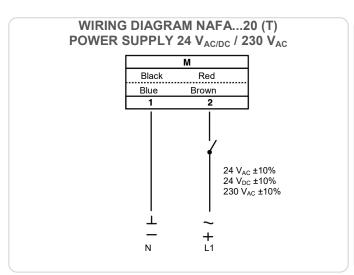


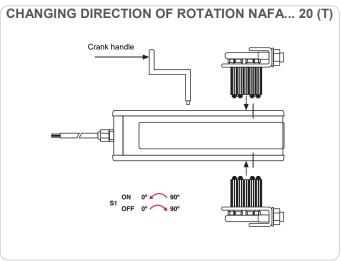
	NAFA 1-20 (T)	NAFA 2-20 (T)
Torque	20 Nm	20 Nm
Damper size	4.0 m ²	4.0 m ²
Shaft dimensions	Ø 1020 mm / 🗆 714 mm	Ø 1020 mm / 🗆 714 mm
Power supply	24 V _{AC/DC} ± 10%	230 V _{AC} ± 10%
Frequency	5060Hz	5060Hz
Control signal	2-point control	2-point control
Power consumption		
In operation	7.0 W	8.0 W
End position	2.0 W	5.5 W
Rated power	8.0 VA	8.0 VA
Electrical connections	Cable 1 m	Cable 1 m
Auxiliary switch rating	3 (1.5) A / 250 V _{AC}	3 (1.5) A / 250 V _{AC}
Protection class	Class III ⊕	Class II
Angle of rotation	90° (95° mechanical limitation)	90° (95° mechanical limitation)
Weight	2.5 kg	2.5 kg
Durability	60,000 rotations	60,000 rotations
Trigger temperature of thermal sensor	> 72°C	> 72°C
Sound level	40 dB	40 dB
IP protection class	IP54	IP54
Working temperature range	-20°C50°C as per IEC 721-3-3	-20°C50°C as per IEC 721-3-3
Storage temperature	-30°C+60°C / IEC 721-3-2	-30°C+60°C / IEC 721-3-2
Ambient humidity	595% rH (non condensing) / EN	595% rH (non condensing) / EN
Maintenance	Maintenance free	Maintenance free
Principle of operation	Type 1 (acc. to EN 60730-1)	Type 1 (acc. to EN 60730-1)
Electromagnetic compatibility	CE & ISO 9000 to EN / EEC	CE & ISO 9000 to EN / EEC

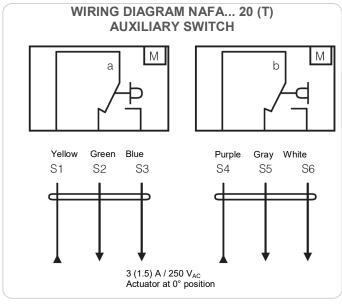


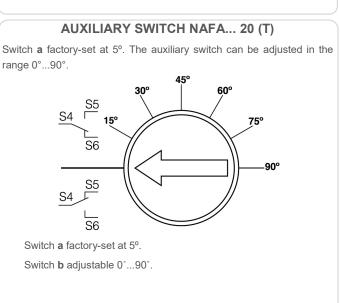
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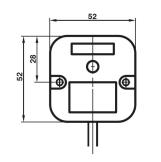


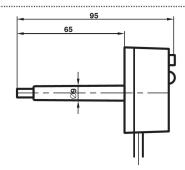


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NTS72 thermal sensor

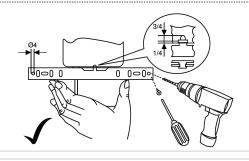


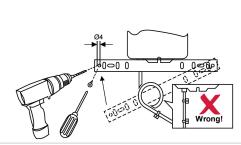


NTS 72 thermal sensor consist of both ambient and duct sensor (TS1 and TS2, respectively).

- TS1 will trip open when the ambient temperature rise above 72°C.
- TS2 will trip open when the duct temperature rise above 72°C.

Installation instruction

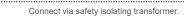




24 V_{AC/DC}:

IMPORTANT REMARKS

This actuator includes electrical and electronic components and may not be disposed as household waste. Please consider the local valid legislation.



To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductor (with at least a 3mm contact gap.) 230 V_{AC}:

Consult NENUTEC representatives for specific requirements and material selections for your intended application.

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The performance specifications are nominal and conform to acceptable industry standards. Nenutec shall not be liable for damages resulting from misapplication or misuse of its products.

CUSTOMISED VERSION

NENUTEC offers you actuators in customised versions, e.g. with your own brand name, with colourcoordinated applications and with your particular demand on request.

For further information please contact us or our local representative.

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