



For slipper valves up to DN80

Modulating rotary actuator
(AC/DC 24 V)

Modulating control DC 0...10 V

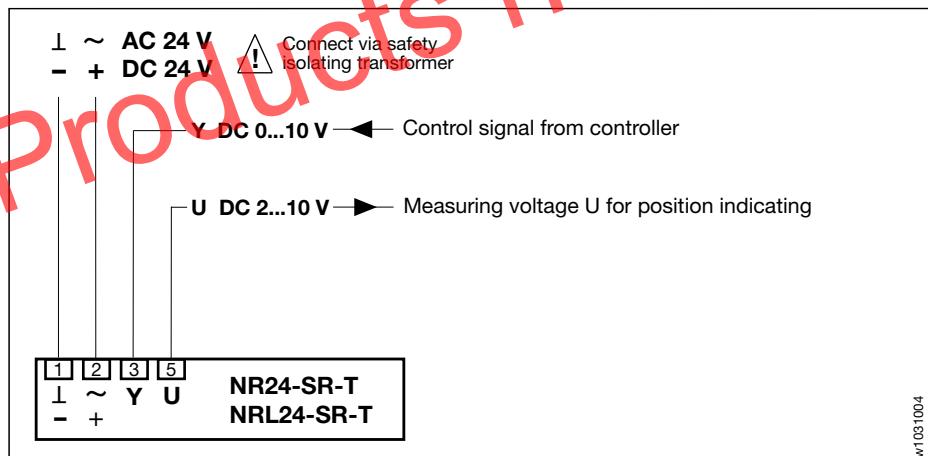
Application

The NR(L)24-SR-T is a compact actuator for motorising the most popular types of slipper valves in HVAC plants.

Mode of operation

Modulating control is effected by means of a standard DC 0...10 V control signal. As soon as the power supply has been energised a synchronising function is initiated. The actuator runs to the closed position (CLOSED limit switch) at high speed and synchronises itself.

Wiring diagram



Technical data	NR24-SR-T	NRL24-SR-T
Nominal voltage	AC 24 V 50/60 Hz, DC 24 V	
Nominal voltage range	AC 19.2...28.8 V, DC 21.6...28.8 V	
For wire sizing	3 VA	
Power consumption	1.5 W	
Connection	screw type terminals	
Control signal Y	DC 0...10 V @ Input resistance = 100 kΩ	
Operating range	DC 2...10 V for 0...100% ↘ (0...90°)	
Measuring voltage U	DC 2...10 V (max. 1 mA) for 0...100% ↘ (0...90°)	
Synchronism tolerance	± 5%	
Direction of rotation	fixed R ↘ (at Y = 0 V)	
Manual operating	Temporary and permanent gearing disengagement by rotary switch on housing	
Torque	min. 10 Nm (at rated voltage)	
Running time	140 s	280 s
Sound power level	max. 35 dB (A)	
Position indication	reversible scale 0...1	
Mounting position	any, except actuator hanging beneath valve	
Protection class	II (safety low voltage)	
Degree of protection	IP 40	
Ambient temperature range	0 °C...+ 50 °C	
Temperature of medium	+ 5°...+ 120 °C (slipper valve body)	
Non-operating temperature	- 30 °C...+ 80 °C	
Humidity test	to EN 60730-1	
EMC	CE according to 89/336/EEC	
Mode of operation	Type 1/Software class A	
Maintenance	maintenance-free	
Weight	0.5 kg	

Product features

Simple direct mounting to the slipper valve spindle by universal or customised spindle clamp. An anti-rotation bolt is supplied with the actuator. The mounting position can be chosen in steps of 90°.

Functional reliability

The actuator is overload-proof and stops automatically at the end-stop.

Manual operation by lever (press for temporary disengagement, permanent gearing disengagement by rotary switch on the housing cover to the manual position), for details see page 10.

Mechanical accessories

Linkage kits for ESBE, Termomix, Pommerring, Dumserwerk, Lovato, Landis & Staefa, Lazzari, Oventrop, Meibes, Wita, Holter, Satchwell and Centra slipper valves.

Dimensions

