

- Mechanical Fail-Safe Rotary Actuators for:
- Torque: 10Nm
- Modulating control: NRFU24-SR (AC/DC 24V)
- Open/Close control: NRFU, NRFU-S2 (AC 24...240V)
(DC 24...125V)



Technical data

Basic technical data

NRFU24-SR

NRFU

NRFU-S2

Torque	-motor	Min. 10Nm @ nominal voltage
	-spring return	Min. 10Nm
Angle of rotation		90°
Direction of rotation	-motor	Selected by mounting side of L/R
	-spring return	Selected by mounting side of L/R or reversing
Sound power level		Motor: ~ 45dB(A), spring return: ~ 62dB(A)
Position indicator		Mechanical
Running time	-motor	~150s (NRFU24-SR); ~75s (NRFU-S2, NRFU)
	-spring return	~20s @ -20...+50°C
Ambient temp.		-30...+50°C
Non-operation temp.		-40...+80°C
Humidity		5...95% RH, non-condensing
Degree of protection		IP54
EMC		CE according to 2004/108/EC
Low voltage directive		CE according to 2006/95/EC
Maintenance		Maintenance-free
Nominal voltage		AC 24V 50/60Hz, DC 24V
Nominal voltage range		AC 19.2...28.8V / DC 21.6...28.8V
Power consumption	-running	5.5W
	-holding	3.0W
For transformer sizing		9VA
Connecting cable		Cable 1m, 4x0.75mm²
Control signal Y		DC 2(0)...10V @ input impedance 100kΩ
Position feedback signal U		DC 2...10V @ max. 0.5mA
Position accuracy		±5%
Manual override		By manual override key
Protection class		III (safety extra-low voltage)
Weight		2.0kg
Nominal voltage		AC 24...240V 50/60Hz / DC 24...125V
Nominal voltage range		AC 19.2...264V / DC 21.6...137.5V
Power consumption	-running	6.0W
	-holding	2.5W
For transformer sizing		9.5VA
Connecting cable		Cable 1m, 2x0.75mm²
Manual override		By manual override key
Protection class		III (safety extra-low voltage)
Weight		1.7kg
Nominal voltage		AC 24...240V 50/60Hz / DC 24...125V
Nominal voltage range		AC 19.2...264V / DC 21.6...137.5V
Power consumption	-running	6.0W
	-holding	2.5W
For transformer sizing		9.5VA
Auxiliary switch (-S2)		2xSPDT, 1mA...3(0.5)A, AC 250V
		One fixed at 10%, one adjustable 10%...90%
Connecting cable	-motor	Cable 1m, 2x0.75mm²
	-S2	Cable 1m, 6x0.75mm²
Manual override		By manual override key
Protection class		II (Totally insulated)
Weight		1.7kg

Product features

Simple direct mounting

Simple direct mounting on the Ball Valve using only one screw.

Manual operation

Manual operation is possible with the manual override key.

High function reliability

The actuator is overload-proof, needs no limit switches and stops automatically at the end stops.

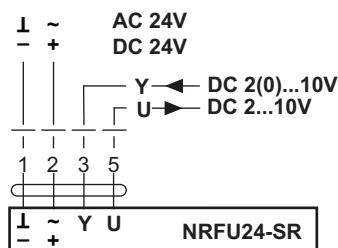
Wiring diagrams

NRFU24-SR

Modulating control

Notes:

- Connection via safety isolating transformer.
 - Other actuators can be connected in parallel.
- Please note the performance data.

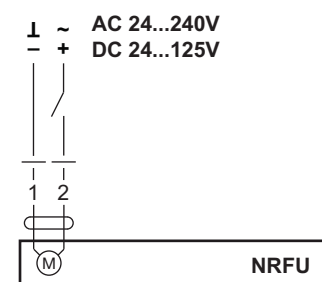


NRFU

Open/Close control

Notes:

- Caution: Power supply voltage!
 - Connection via safety isolating transformer.
 - Other actuators can be connected in parallel.
- Please note the performance data.



NRFU-S2

Open/Close control

Notes:

- Caution: Power supply voltage!
 - Connection via safety isolating transformer.
 - Other actuators can be connected in parallel.
- Please note the performance data.

