



**Short-stroke actuators for short-lift valves, max. nominal stroke 5.5 mm**

**Modulating actuators (AC/DC 24 V)**

**Modulating control DC 0...10 V**

### Applications

The NRDVX24-SR-T.. actuator is intended for motorizing Cazzaniga and Siemens short-lift valves.

### Mode of operation

Modulating control is employed with a standard control signal of DC 0...10 V. A synchronizing function is triggered each time the power supply is energized. The actuator runs at high speed to the closed position (CLOSED limit switch) and synchronizes itself.

The working range of 2...10 V can be changed to 0...10 V by removing jumper B2 (see Operating controls, Page 7).

### Product features

Easy direct mounting on the body of the valve. The stroke is adjusted at the factory to suit the type of valve. The mounting bracket, suitable for the particular type of valve, is an integral part of the actuator.

### Functional reliability

The electric motor is de-energized when the actuator runs on to its internal end-stops.

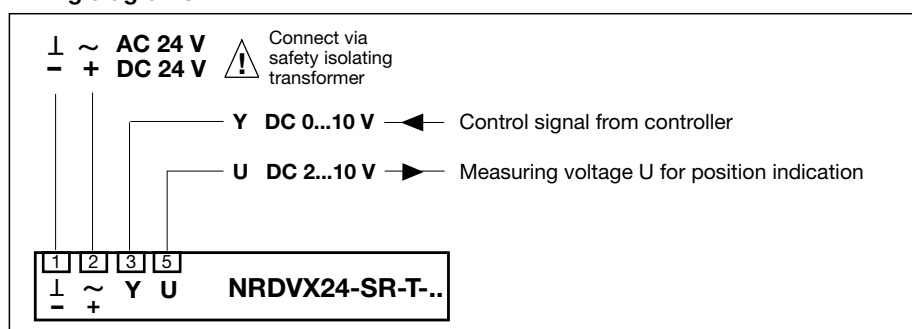
### Manual operation

The actuator can be operated manually with a hand lever (temporary disengagement by simply depressing the rotary knob on the housing and permanent disengagement by rotating it).

When the manual lever is rotated clockwise the valve moves in the close direction.

### Installation instructions, Page 7

### Wiring diagrams

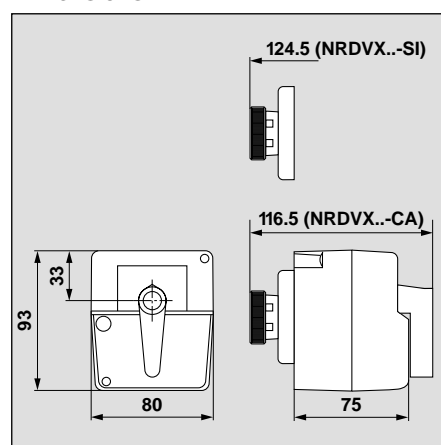


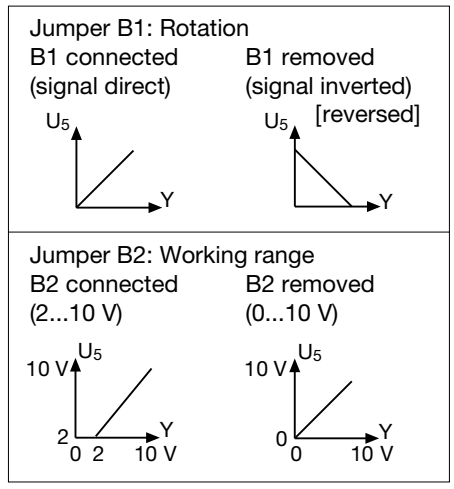
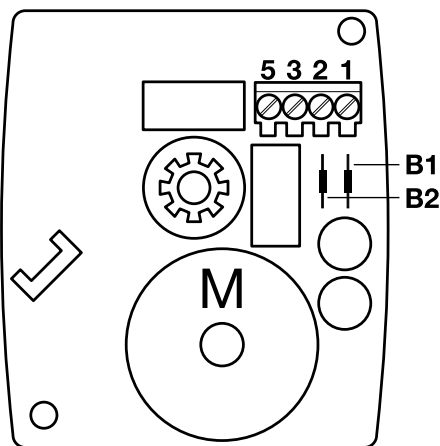
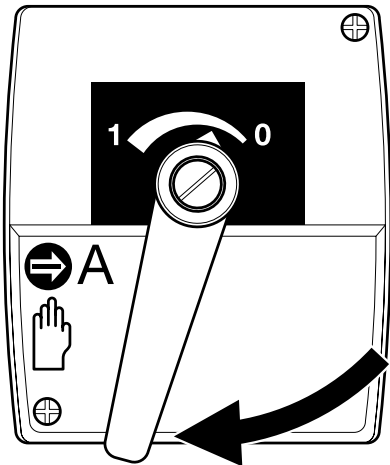
### NRDVX24-SR-T..., suitable for the following makes of valve

	Version	Valve type	DN (mm)	$k_{VS}$ (m <sup>3</sup> /h)	Actuator type
<b>Cazzaniga</b>	2-way	V02BM.. LN	15...40	3.9...14,5	NRDVX24-SR-T-CA
	3-way	V03BM.. LN	15...40	3.9...14,5	
<b>Siemens</b>	2-way	VVG44..	15...40	0.25...25	NRDVX24-SR-T-SI
	2-way	VVI52..	15	0.25...2,5	
	3-way	VXG44..	15...40	0.25...25	

Technical data	NRDVX24-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
Connecting terminal	2 x 0.75 mm <sup>2</sup> or 1 x 1.5 mm <sup>2</sup>
Control	DC 0...10 V @ 100 kΩ input impedance
Operating range	DC 2...10 V for 0...100%
Position feedback	DC 2...10 V (max. 1 mA)
Uni-rotation	±5%
Nominal stroke	5.5 mm
Actuating force	500 N
Manual operation	temporary or permanent disengagement by rotary knob
Running time	140 s
Sound power level	max. 35 dB (A)
Position indication	scale plate 0...1
Protection class	⚡ (safety extra-low voltage)
Degree of protection	IP40
Temperature of medium	+5°...100°C (including valve)
Ambient temperature	0°...+50°C
Non-operating temp.	-30°...+80°C
Humidity test	to EN 60730-1
EMC	CE according to 89/336/EEC, 92/31/EEC, 93/68/EEC
LV Directive	CE according to 73/23/EEC
Maintenance	maintenance-free
Weight	0.5 kg (without valve)

### Dimensions





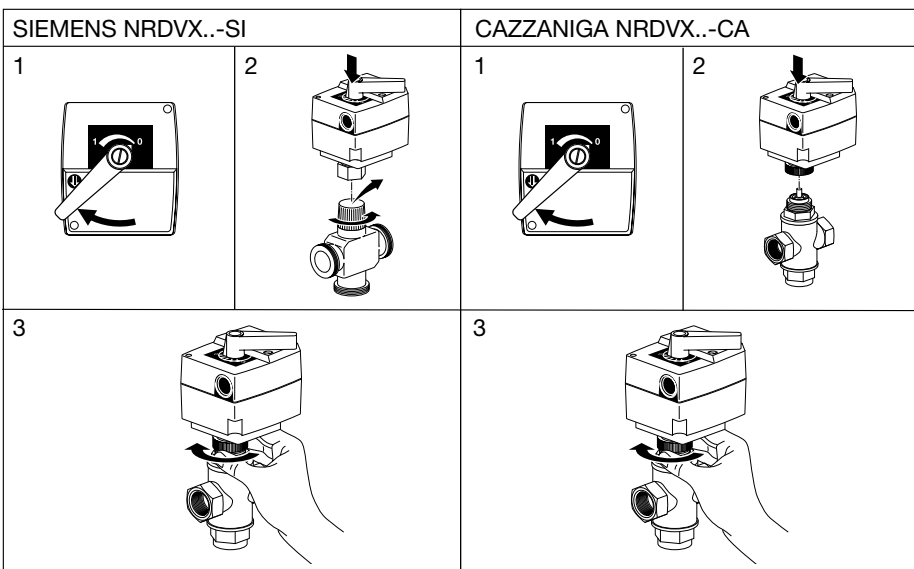
**Manual operation**

If the black rotary knob is depressed and turned from position A (Automatic) to the hand symbol, manual operation will be permanently engaged. Then, any control signal that might be received will not be acted upon.

The manual operating system incorporates a slipping clutch and is overload-proof. When the manual lever (black) is moved clockwise the actuator spindle retracts and the valve closes (Position 0).

**Operating controls of the NRDVX24-SR-T..**

Jumpers B1 and B2 will be found under the lid of the housing. In order to gain access to them first loosen the central screw of the black hand lever and remove the two Philips screws securing the lid.



**Installing the NRDVX..-T on short-lift valves**

- 1) Set the manual operating lever to «Hand». Rotate the black lever clockwise to the end-stop. The lever should now be in the «Zero» position. If it is not, loosen the central screw of the lever, pull it out and turn to the «Zero» position. Then re-secure the lever by tightening the central screw finger-tight.
- 2) Screw the actuator on to the thread of the valve neck.
- 3) Tighten the valve neck connection and return the manual operating lever to the «A» position (Automatic).