

Modulating short stroke actuators for the motorisation of Cazzaniga and Siemens short stroke valves in HVAC systems

- Nominal stroke max. 5.5 mm
- Actuation force 500 N
- Nominal voltage AC/DC 24 V
- Control: Modulating



Overview of types

Valve					Actuator
Manufacturer	Sort	Туре	DN [mm]	k_{vs} [m ³ /h]	Туре
Cazzaniga	2-way	V02BM LN	15 40	3.9 14.5	NRDVX24-SR-T-CA
	3-way	V03BM LN	15 40	3.9 14.5	
Siemens	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

Electrical data	Nominal voltage	AC 24 V, 50/60 Hz / DC 24 V	
	Power supply range	AC 19.2 28.8 V / DC 21.6 28.8 V	
	Power consumption In operation	1.5 W at nominal torque	
	For wire sizing	2.5 VA	
	Connection	Terminals 4 mm ² (cable Ø 6 8 mm, three-core)	
	Parallel connection	Yes (Note performance data for supply!)	
Functional data	Actuation force	500 N	
	Control Control signal Y	DC 0 10 V, Input resistance 100 kΩ	
	Operating range	DC 2 10 V for 0 90°∢	
		(can be switched to DC 0 10 V)	
	Position response (measuring voltage U)	DC 2 10 V, max. 1 mA, for 0 90°∢)	
		(can be switched to DC 0 10 V)	
	Position accuracy	±5%	
	Manual override	Temporary and permanent disengagement	
		of the gearing latch by means of the rotary knob	
		on the housing	
	Nominal stroke	5.5 mm	
	Running time	140 s / 5.5 mm	
	Sound power level	Max. 35 dB (A)	
	Position indication	Scale plate 0 1	
Safety	Protection class	III Extra low voltage	
	Degree of protection	IP40	
	EMC	CE according to 2004/108/EC	
	Mode of operation	Type 1 (to EN 60730-1)	
	Rated impulse voltage	0.8 kV (to EN 60730-1)	
	Control pollution degree	3 (to EN 60730-1)	
	Ambient temperature range	0 +50°C	
	Media temperature	+5 +100 °C (in valve)	
	Non-operating temperature	–30 +80°C	
	Ambient humidity range	95% r.H., non-condensating (to EN 60730-1)	
	Maintenance	Maintenance-free	
Dimensions / Weight	Dimensions	See «Dimensions» on page 2	
	Weight	Approx. 500 g	

NRDVX24-SR-T	Modulating short stroke actuators for Cazzaniga and Siemens valves, AC/DC 24 V, 5,5 mm, 500 N			
Safety notes				
Â	 The actuator has been designed for use in stationary heating, ventilation and air conditioning systems and is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport. It may only be installed by suitably trained personnel. All applicable legal or institutional installation regulations must be complied with. The device does not contain any parts that can be replaced or repaired by the user. The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed. 			
Product features				
Mode of operation	The actuator is controlled with a standard signal of DC 0 10 V and moves into the position defined by the control signal.			
Simple direct mounting	Straightforward direct mounting on the valve with only one knurled nut.			
Manual operation	Manual operation possible by lever (temporary disengagement of the gearing latch by pressing, permanent disengagement by means of the rotary knob on the housing).			
Functional reliability	The actuator is overload-proof and automatically stops when the end stops are reached.			
Accessories				
	Description			
Electrical accessories	Auxiliary switch			
Electrical installation				

Connect via safety isolation transformer.

 Factory setting: Operating range/Position feedback DC 2 ... 10 V (can be switched to DC 0 ... 10 V)

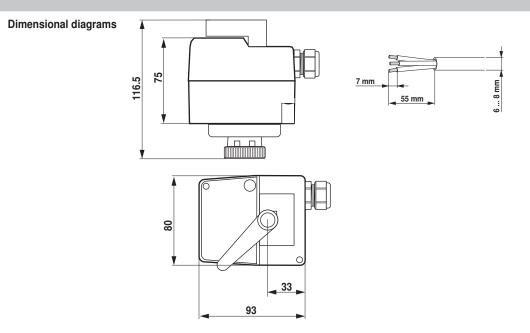
• Parallel connection of several actuators possible. Power consumption must be observed!

Notes

Wiring diagram Standard

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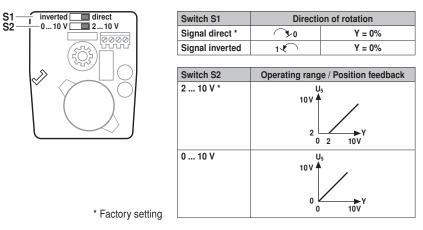
Dimensions [mm]





Adjusting switch S1 and S2

The S1 and S2 switches for setting the direction of rotation and the operating range/position feedback are located underneath the housing cover.



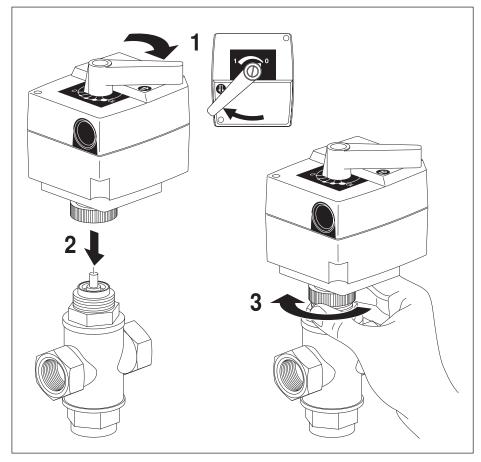
Dismounting the housing cover

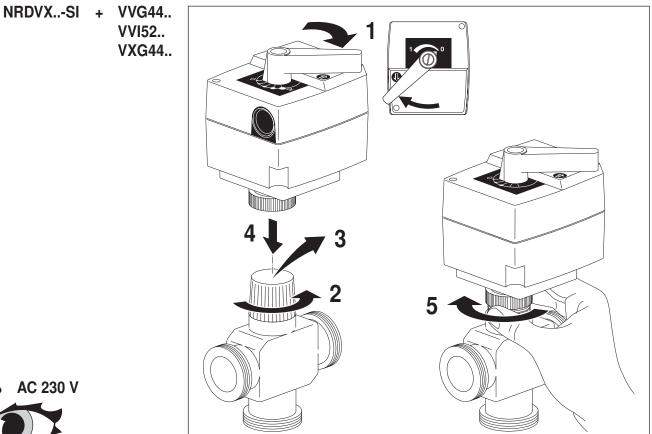
Loosen the central screw at the black lever and remove the two Phillips screws of the housing cover.



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NRDVX..-CA + V02BM.. LN V03BM.. LN







NRDVX..



