



- Non-spring return actuators, for operation of DN100...150 Butterfly valves, dual GRVU..* are for operation of DN125...200 Butterfly valves
- Torque 40 Nm
- Open/Close control: GRVU24, GRVU230
- Modulating control: GRVU24-SR

Technical data

GRVU24	Nominal voltage	AC 24 V 50/60 Hz, DC 24 V
	Nominal voltage range	AC/DC 19.2 ... 28.8 V
	Power consumption - running	4 W
	- holding	2 W
	For transformer/wire sizing	6 VA
	Connecting cable	Cable 1 m, 3 x 0.75 mm ²
	Protection class	III (safety low voltage)
	Weight	approx 1550 g
GRVU230	Nominal voltage	AC 100...240 V 50/60 Hz
	Nominal voltage range	AC 85...265 V
	Power consumption - running	4 W
	- holding	2 W
	For wire sizing	7 VA
	Connecting cable	Cable 1 m, 3 x 0.75 mm ²
	Protection class	II (Totally insulated) □
	Weight	approx 1550 g
GRVU24-SR	Nominal voltage	AC 24 V 50/60 Hz, DC 24 V
	Nominal voltage range	AC/DC 19.2 ... 28.8 V
	Power consumption - running	4.5 W
	- holding	2 W
	For transformer/wire sizing	6.5 VA
	Connecting cable	Cable 1 m, 4 x 0.75 mm ²
	Control signal Y	DC 0...10 V @ input resistance 100KΩ
	Operating range	DC 2...10V
	Measuring voltage U	DC 2...10V@max. 1mA
	Synchronisation	± 5%
	Protection class	III (safety low voltage)
	Weight	1550 g
Common technical data	Torque	Min. 40 Nm @ nominal voltage
	Angle of rotation	max. 95°
	Direction of rotation	Pre-setting ↗ to close (switch hidden under a label)
	Sound power level	max. 45 dB(A)
	Position indicator	mechanical, remote visible
	Manual override	Gearing disengaged by pressing the pushbutton, manual operate while the button is held depressed
	Running time	150 s
	Mode of operation	EN 60730-1 Type 1
	Ambient temp.	-30°C...+ 50°C
	Non-operation temp.	-40°C...+ 80°C
	Humidity test	95% RH, non condensing (EN 60730-1)
	Degree of protection	IP54 in any direction
	Low Voltage Directive	CE according to 89/336/EEC
	Maintenance	CE according to 73/23/EEC
		maintenance free

*: 2xGRVU.. will not be available until quarter 2 2006

Product features

Mode of operation

GRVU24-SR is controlled by means of a standard control signal DC 0...10V and travels to the position defined by this signal. The measuring voltage U allows the valve position (0...100%) to be electrically indicated and serves as a follow-up control signal for other actuators.

Adjustable angle of rotation

Adjustable angle of rotation with mechanical end stops.

High functional reliability

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Accessories

Description

Electrical accessories (available on request)

Auxiliary switch S..A..
Feedback potentiometer P..A..

Positioner SG..24

Digital position indication ZAD24

Linkage kit

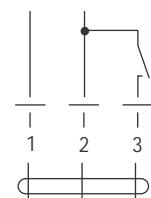
WD6-GR, for DN100...150 butterfly valve with single GRVU.. actuator, see page 29
WD6-2GR, for DN125...200 butterfly valve with dual GRVU.. actuators*

Wiring diagrams

GRVU24

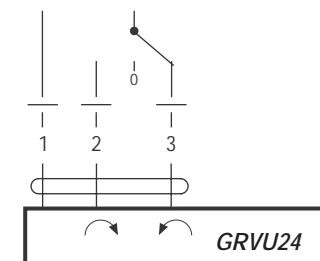
Open/Close control

\perp ~ AC 24 V
- + DC 24 V



3-point control

\perp ~ AC 24 V
- + DC 24 V



Notes

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

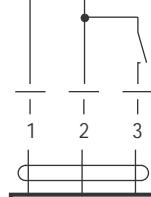
Direction of rotation
(factory setting,
switch hidden)



GRVU230

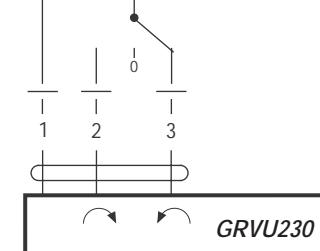
Open/Close control

N L1 AC 100...240 V



3-point control

N L1 AC 100...240 V



Notes

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

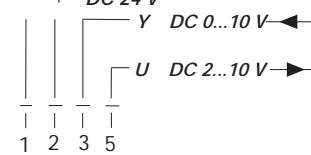
Direction of rotation
(factory setting,
switch hidden)



GRVU24-SR

Modulating control

\perp ~ AC 24 V
- + DC 24 V



Measuring voltage U for position
indicating or as master-slave
control signal.

Notes

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

Direction of rotation
(factory setting,
switch hidden)



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Dimensions

Unit [mm]

