



- 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) <input type="checkbox"/>
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 100K Ω
	Operating range	DC 2...10V
	Measuring voltage U	DC 2...10V@max. 1mA
	Synchronisation	\pm 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..
Linkage kit	Positioner SG..24
	Digital position indication ZAD24
	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*

⊥ ~ AC 24 V
- + DC 24 V

1 2 3

GRVU24

GRVU24 *3-point control*

⊥ ~ AC 24 V
- + DC 24 V

1 2 3

GRVU24

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)

0(Y1)
1(Y2)

GRVU230 *Open/Close control*

N L1 AC 100...240 V

1 2 3

GRVU230

GRVU230 *3-point control*

N L1 AC 100...240 V

1 2 3

GRVU230

Notes

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

Direction of rotation
(factory setting, switch hidden)

0(Y1)
1(Y2)

GRVU24-SR *Modulating control*

⊥ ~ AC 24 V
- + DC 24 V

1 2 3 5

GRVU24-SR

Y DC 0...10 V ←

U DC 2...10 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)

0(Y1)
1(Y2)

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Dimensions

Unit [mm]

GRVU24
GRVU230
GRVU24-SR

