

# GTVS/GTRS

## 2- and 3-way flanged valve

Control valves intended for use in heating and ventilation systems, suitable for cold and hot water, glycol-mixed water or steam.

- Size DN32–150
- Kvs value 16-310
- Differential pressure 0.12–1.3 MPa

#### Function

#### GTVS:

The valve is open when the stem is at its lower position and closed when the stem is at its highest position.

#### GTRS:

As the stem is at its lower position, flow-through between ports A and AB is entirely open (and closed between ports B and AB). As the stem is at its highest position, flow-through between ports B and AB is entirely open (and closed between ports A and AB).

#### Actuators

The valves are intended to be used together with actuators of the type RVA... The OVA-F1 adapter kit is factory mounted on models with DN32-40 and OVA-F2 is mounted on models with DN50-150.

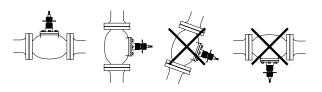
- Pressure rating PN16
- Media temperature -5...+120°C

#### Installation

The valves are to be mounted according to the flow direction arrows on the valve.

The 2-way valve is to be mounted with port A as intake and port AB as return (flow direction A in, AB out) to ensure tight closure and prevent noise when closing. The 3-way valve is of mixing type and should be mounted at the mixing point.

Make sure to mount the 3-way valve so that correct flow directions are obtained.



#### Material

Body in cast iron and stem in stainless steel. Plug and seat in gunmetal. Self-adjusting PTFE packing box and O-rings in Viton.

#### **Control of refrigerants**

The valves can be used with different refrigerants. In this case, a special type of packing box must be mounted. *Contact Regin for more information.* 



# Models

2-way	Connection	Kvs	Max diff. pressure
GTVS32-16	DN32	16	1.3 MPa
GTVS40-27	DN40	27	0.8 MPa
GTVS50-39	DN50	39	1.0 MPa
GTVS65-63	DN65	63	0.6 MPa
GTVS80-100	DN80	100	0.4 MPa
GTVS100-160	DN100	160	0.25 MPa
GTVS125-215	DN125	215	0.17 MPa
GTVS150-310	DN150	310	0.12 MPa

3-way	Connection	Kvs	Max diff. pressure
GTRS32-16	DN32	16	1.3 MPa
GTRS40-27	DN40	27	0.8 MPa
GTRS50-39	DN50	39	1.0 MPa
GTRS65-63	DN65	63	0.6 MPa
GTRS80-100	DN80	100	0.4 MPa
GTRS100-160	DN100	160	0.25 MPa
GTRS125-215	DN125	215	0.17 MPa
GTRS150-310	DN150	310	0.12 MPa

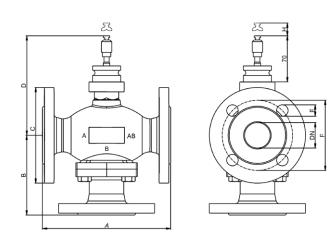
# Technical data

Flow characteristics	Square	Material	
Fluid temperature	-5+120°C	Body	Cast iron Grade 220
Media	Hot, cold, glycol mixed water	Plug and seat	Gunmetal 1400 LG2
	or steam.	Stem	Stainless steel 303S31
Connection	Flange	Packing box	Self-adjusting PTFE
Stroke	See table below	Bonnet	Brass CZ 121
Pressure rating	PN16	O-rings	Viton

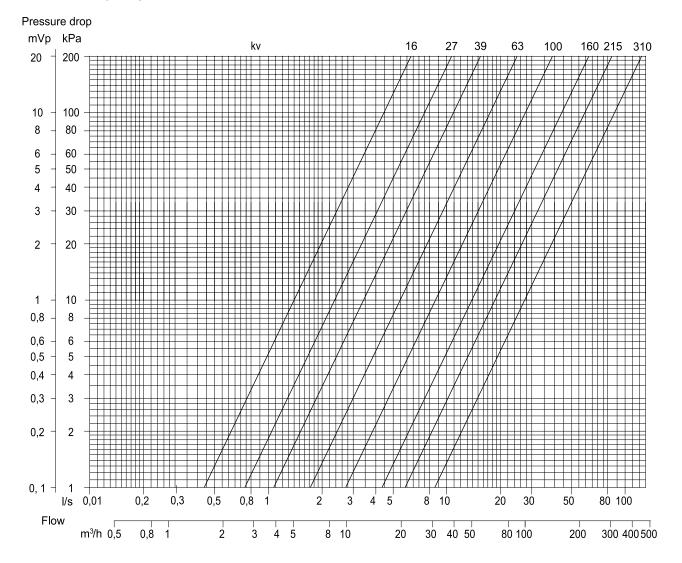
# Dimensions

Туре	DN	Α	В	С	D	Е	F	Н	Weight (kg)	Actuator
GTVS32-16	32	180	135	140	135	18 (4x)	100	20	13	RVA10
GTVS40-27	40	200	145	150	140	18 (4x)	110	20	17	RVA10
GTVS50-39	50	220	115	165	180	18 (4x)	125	37	17	RVA18
GTVS65-63	65	260	100	185	190	18 (4x)	145	24	15	RVA18
GTVS80-100	80	280	110	200	200	18 (8x)	160	36	23	RVA18
GTVS100-160	100	320	125	220	220	18 (8x)	180	36	28.5	RVA18
GTVS125-215	125	370	135	250	235	18 (8x)	210	40	50	RVA25
GTVS150-310	150	420	180	285	250	22 (8x)	240	40	64	RVA25
GTRS32-16	32	180	115	140	135	18 (4x)	100	20	11	RVA10
GTRS40-27	40	200	125	150	140	18 (4x)	125	37	13	RVA10
GTRS50-39	50	220	145	165	180	18 (4x)	125	37	18.5	RVA18
GTRS65-63	65	260	170	185	190	18 (4x)	145	24	23	RVA18
GTRS80-100	80	280	185	200	200	18 (8x)	160	36	28.5	RVA18
GTRS100-160	100	320	200	220	220	18 (8x)	180	36	35.5	RVA18
GTRS125-215	125	370	230	250	235	18 (8x)	210	40	58	RVA25
GTRS150-310	150	420	250	285	250	22 (8x)	240	40	74	RVA25

NB! All measurements in mm unless otherwise noted.



### Pressure drop diagram





Head Office SwedenPhone:+46 31 720 02 00Web:www.regin.seMail:info@regin.se