

CHAPTER 8



Valves & valve actuators

Valve actuators

Regin supplies everything from small-sized thermal actuators to micro-processor controlled actuators for control valves.

Control valves

Regin has a broad range of 2-way and 3-way valves in sizes from kvs 0.25 to 360. The programme contains various models from smaller zone valves to flanged control valves.

Thermal actuators & Valves

Valves and actuators

Flanged valves and actuators



Valves and actuators for energy-efficient systems

With a tradition in the valve industry that extends back to the 1920s, Osby Armatur (OAB) is a strong brand within valve technology. This tradition and expertise lives on at our production site in Osby. There we develop, install and test our valves whereas the production of our components is contracted out.

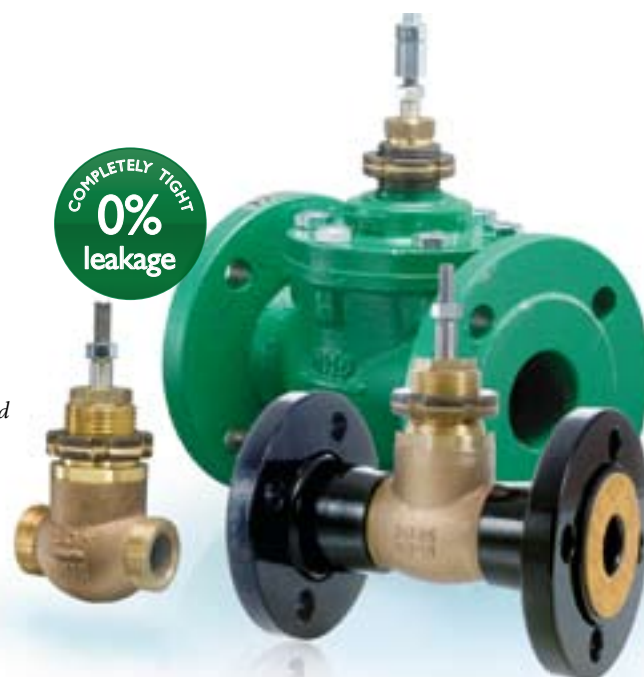
Energy efficient systems put great demands on valve characteristics

The precision and performance of valves are decisive factors in creating an energy-efficient system. Therefore, Regin's production centre in Osby places great emphasis on developing high control precision and fully sealed valves. Being a front-runner in the valve industry, Regin can now offer three new series of valves. All of them were developed using new technology making them all bubble tight when closed, which minimizes energy losses. The valves are available in dimensions up to DN 150. Gradually, this technology will be applied to other series of valves, as well.

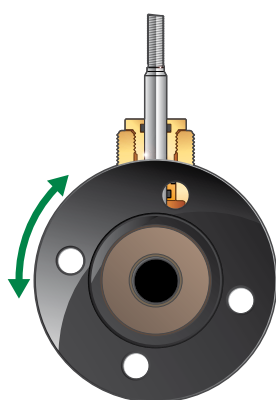
Save energy using Regin OAB-valves

In most systems for comfort and hot water production, the valves are over-dimensioned*, especially in older installations. Traditionally, valves were selected to tolerate the most extreme conditions in order to be on the safe side. As a result, the valves were over-sized in normal operating conditions and only a part of their stroke was being used. By installing a valve with the correct Kvs value, high control precision and valve authority and more stable control are achieved, as well as a more energy efficient operation. If you choose an OAB-valve from the Regin product series you will both minimise energy costs and save the environment.

Regin's valves are marketed under the name OAB; a brand which stands for high quality performance.



* Source: "Marginaler i Fjärrvärmesystem", Forskning och Utveckling 2003:85 and "Konsekvenser av mindre styrventiler i distributionsnät", Forskning och Utveckling 2004:105



READY STEADY GO

The FRS valves' dimensions, turnable flange connections and pre-mounted flange seals make installation quick and easy.



Regin Ready-Steady-Go valves

We at Regin want to make installation easy for you. We call it Ready-Steady-Go. A good example is our FRS valve, which is a replacement for older STL valves (TA valves). The FRS valve has high control precision and is fully sealed when closed. Installation is facilitated by measurements designed for installing between flanges, turnable flange connections and pre-mounted flange seals.

Complete solutions – valve with actuator

Regin can also offer you the actuators you need. If you want to use other actuator brands, we have a complete collection of suitable adapters.








Valves for Honeywell actuators

If you use Honeywell actuators, we have a special series of valves that are designed to fit the actuators.



Regin's valve calculator simplifies the selection of the right valve for the application - eliminating the risk of over-dimensioning.







Radiators, underfloor heating, fan-coil and chilled ceilings

	VHR 2-way <i>Kvs:</i> 0.7 – 1.5 <i>DN:</i> 10 – 25		RTAM – Thermal actuator <i>Supply voltage:</i> 24 V AC/DC or 230 V AC <i>Control signal:</i> On/off or 0...10 V <i>Force:</i> 100N
	FVR 2-way <i>Kvs:</i> adjustable 0.01...1.1 <i>DN:</i> 10 – 25		Adapters Adapters for valves of different brands: TA, Oventrop, Cazzaniga, MMA, Danfoss. Heimeier
	Zone valves 2-way and 3-way valves For individual room control and for example control of baffles/batteries, hot/cold water, fan convectors, and after-heaters/after-coolers <i>Kvs:</i> 0.25 – 6.3 <i>DN:</i> 15 – 25		MVT <i>Supply voltage:</i> 24 V AC/DC <i>Control signal:</i> 3-point or 0...10 V <i>Force:</i> 200N
	Valve with actuator DFCM 2-way and 3-way valves <i>Kvs:</i> 3.2 – 5.7 <i>DN:</i> 15 – 25 <i>Supply voltage:</i> 230V AC <i>Control signal:</i> On/off		





Domestic hot water

	MTRS 2-way and 3-way valves <i>Kvs:</i> 0.63 – 39 <i>DN:</i> 15 – 50		RVAF5 <i>Control signal:</i> 3-point or 0...10V <i>Force:</i> 500N <i>Stroke time:</i> 30 s
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Heating, cooling and ventilation systems, cold/hot and steam

	BTV/BTR 2-way and 3-way valves <i>Kvs:</i> 0.63 – 39 <i>DN:</i> 15 – 50		RVA5 <i>Control signal:</i> 3-point or 0...10V <i>Force:</i> 500N <i>Stroke time:</i> 60 s
 MRT For hot and cold water 2-way <i>Kvs:</i> 1.0 – 4.0 <i>DN:</i> 20 – 25 With outside thread			
	GTVS For hot and cold water, district heating systems, cooling systems and steam 2-way <i>Kvs:</i> 27 – 310 <i>DN:</i> 40 – 150		RVA <i>Control signal:</i> 3-point or 0...10V Force: RVA5 500N RVA10 1000N RVA18 1800N RVA25 2500N
	GTRS For hot and cold water, district heating systems, cooling systems and steam 3-way <i>Kvs:</i> 27 – 310 <i>DN:</i> 40 – 150		


Valves and actuators for district heating and cooling

	NTVS For hot and cold water, district heating systems, cooling systems and steam 2-way <i>K_{vs}</i> : 1.0 – 310 DN: 15 – 150		RVA Control signal: 3-point or 0...10V Force: RVA5 500N RVA10 1000N RVA18 1800N RVA25 2500N
	2SAS-, 2SBS For hot and cold water -5°C to +150°C (is also available for higher temp) 2-way <i>K_{vs}</i> : 0.63 – 160 DN: 15 – 100 Temp area: -5°C – 185°C		
	FRS/FRSD* For hot and cold water (is also available for higher temp) 2-way <i>K_{vs}</i> : 1.0 – 20 DN: 20 – 65 Temp area: -5°C – 150°C (Replaces TA's STL valves)		


For heating and ventilation systems (adjusted to Honeywell actuators)

	V538 C3 3-way For heating and ventilation systems <i>K_{vs}</i> : 2.1 – 34 DN: 15 – 50 Temp area: -5°C – 185°C		V 538 C6 flanged 3-way For hot/cold water systems and steam <i>K_{vs}</i> : 34 – 310 DN: 50 – 150 Temp area: -5°C – 120°C
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For district heating (adjusted to Honeywell actuators)

	V 176 A 2-way For hot/cold water systems and steam <i>K_{vs}</i> : 0.4 – 160 DN: 15 – 100 Temp area: -5°C – 185°C
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Adapter kits

	For adaption of Regin's valves to actuators from Belimo, TAC Forta, Siemens and Controlli. Adapter and stem extension included. Intended for NTVS/GTRS/GTVS, 2SAS/2SBS, MTRV/MTRS, MRT and FRS.
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Spindle heater

	Protects the spindle against freezing. Intended for STV/STR, MMV/MMR, GTRS, GTVS, 2SAS/2SBS NTVS, MRT and FRS
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