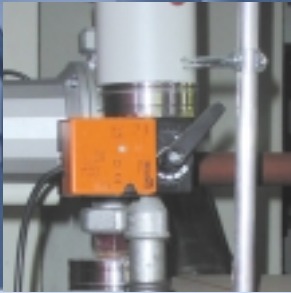


INFO
Valve Solutions

The new dimension:
Motorized HVAC valves from Belimo



BELIMO[®]
Actuators for heating,
ventilation, air-conditioning



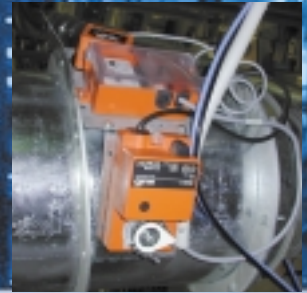
Top economy with motorized control valves from Belimo



Ventilation and safety damper actuators for efficient HVAC installations



Motorized fire and smoke dampers protect both people and property



VAV equipment produces a more comfortable atmosphere in individual rooms

The new dimension: Total solutions for motorized HVAC actuators



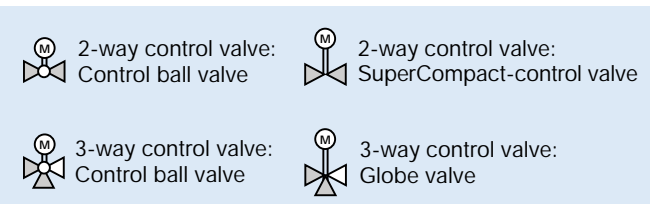
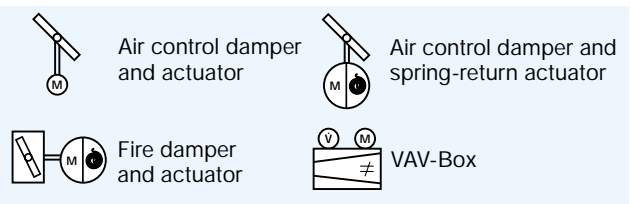
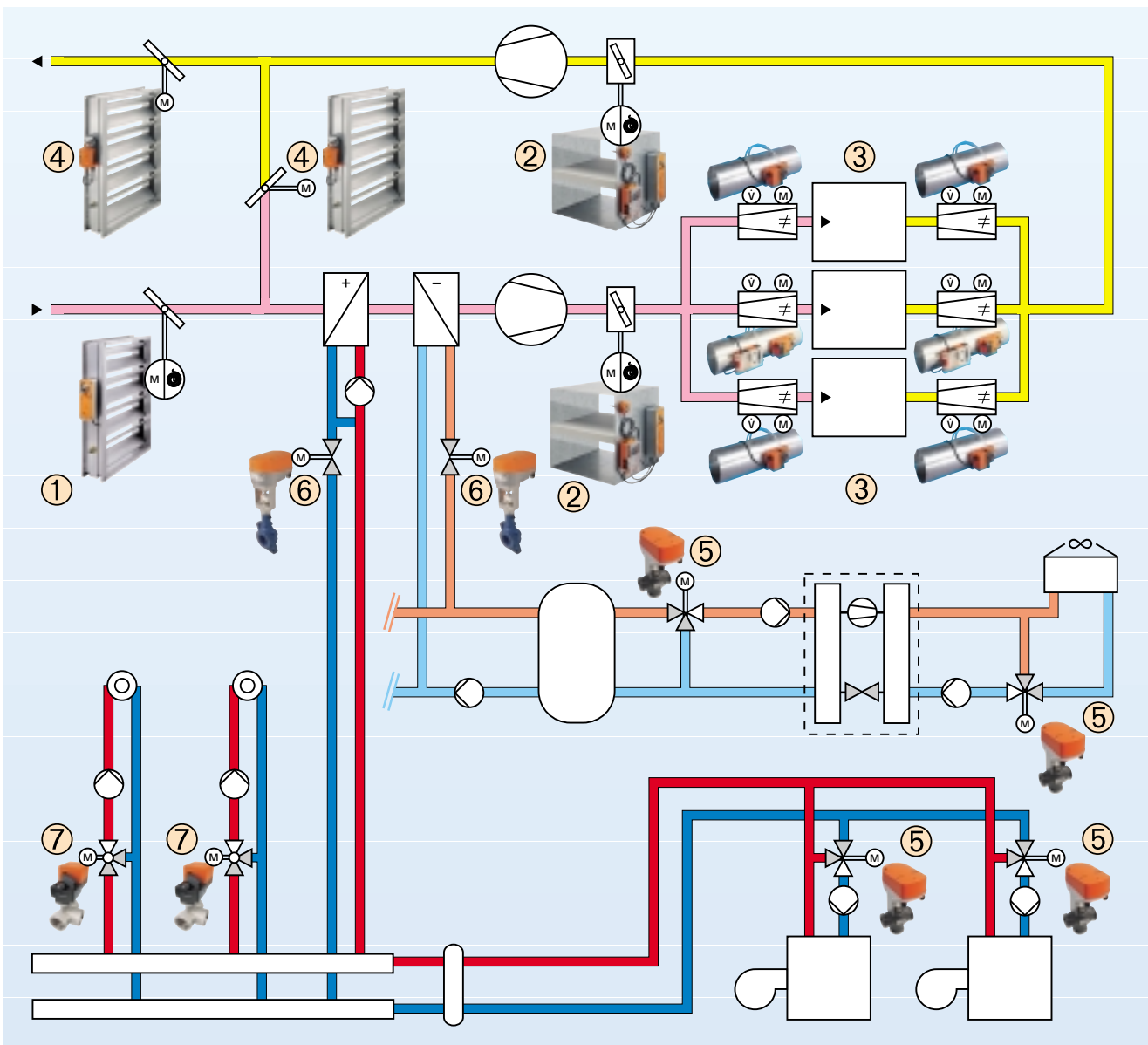
Actuator technology for heating, ventilating and air-conditioning. For more than 25 years the name Belimo has stood for innovation, quality and reliability in the field of electric motorized actuators for air, fire and smoke dampers and VAV units. With its innovative control valves and valve actuators the company is now also starting to set new standards in the field of cooling and heating circuits in HVAC plants – not only with products and technology but also with the consultancy and services that it offers.

Universal, simple and open. Belimo offers the widest possible range of products for the motorizing of air control dampers and valves for use anywhere in HVAC systems. Sophisticated actuator concepts make them easy to use as well as ensuring excellent functionality and economy. Open interfaces guarantee compatibility with other leading makes of plant and equipment. So everyone can be more independent – also when it comes to purchasing suitable products.

Maximum functionality for heating, ventilating and air-conditioning systems

- ① Air control damper and electric spring-return actuator with safety function
- ② Fire damper and electric spring-return actuator
- ③ VAV-Box with air volume controller and electric damper actuator
- ④ Air control damper and electric damper actuator

- ⑤ 3-way control valve and electric linear actuator
- ⑥ SuperCompact-control valve and electric linear actuator or 2-way control ball valve and electric rotary actuator
- ⑦ 3-way control ball valve and electric rotary actuator

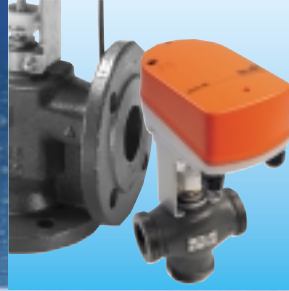




The unique characterizing disk has turned the ball valve into a full-feature control valve



Slim, light and controllable – the SuperCompact-control valve and intelligent actuator



Linear control valves and innovative actuators with MFT® Multi-Function Technology



Linear actuators for retrofitting to all leading makes of valve

The new dimension: Innovative control valves with smart actuators

Ball valve becomes control device. Belimo is helping to set new standards in the field of valves too. A specially developed characterizing disk has turned the ordinary ball valve into a low-cost, full-feature control device. This allows it to have an equal-percentage characteristic – which a conventional ball valve does not, of course. Combined with a top-quality actuator the control ball valve has become a truly economic alternative to a globe valve of the same size.

SuperCompact-control valve with intelligent actuator. Thanks to it being motorized with an intelligent Belimo linear actuator, the conventional compact valve for throttling and shut-off applications has evolved into a full-feature control device. This has given the competitively-priced SuperCompact-control valve access to the applications of the classic flanged control valve – providing all the same advantages but without the usual bulkiness and weight.

Belimo control valves for all applications

Globe valve with linear actuator, flanged

This is a classic globe valve with an equal-percentage characteristic for controlling high to low flow rates. Available as two-way valve or mixing valve with flanged ends. It is also suitable for Open/Close applications. Actuators with an emergency control function are available.

SuperCompact-control valve with linear actuator, flanged





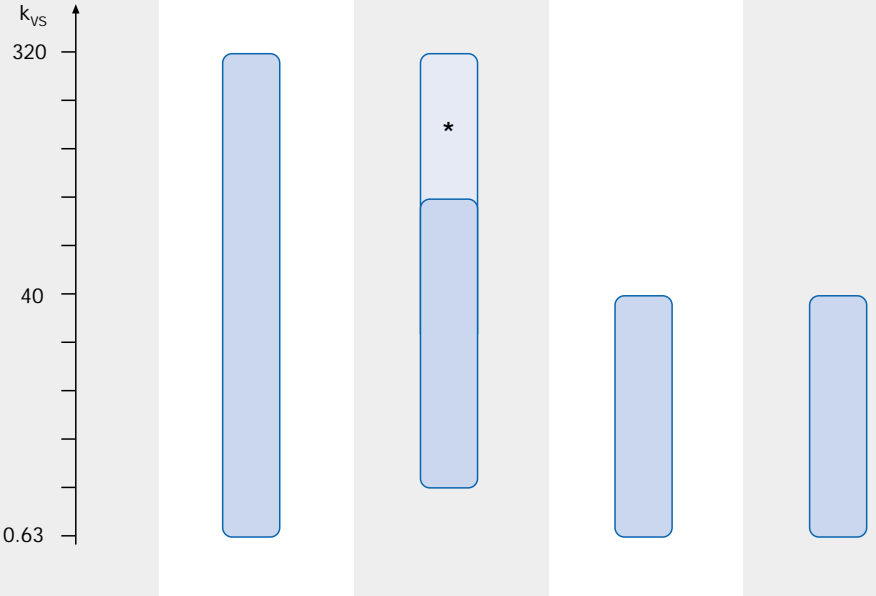


With an equal-percentage characteristic (standard) or a linear characteristic (optional) for controlling high to low flow rates. It is available as a two-way valve in intermediate-flange form. It is also suitable for Open/Close applications.

Globe valve with linear actuator, male screw

The classic globe valve with an equal-percentage characteristic for controlling medium to low flow rates. Available as a two-way valve or a mixing valve with male screwed ends. It is also suitable for Open/Close applications. Actuators with an emergency control function are available. Optional: screw pipe connectors are available.

Control ball valve with rotary actuator, female screw

Mixing valve with female screwed ends and an equal-percentage characteristic for controlling medium to low flow rates. It is also suitable for Open/Close applications. Optional: screw pipe connectors are available.

| Specifications | Flanged | | Male screw | Female screw |
|---|---|--|---|---|
| |  |  |  |  |
| | Globe valves | SuperCompact-control valve | Globe valves | Control ball valve |
| Flow [m ³ /h] k _{VS} |  | | | |
| 2-way  | H6 | S6 | H4 | R2 |
| 3-way  | H7 | - | H5 | R3 |
| DN | 15–150 | 20–80 (up to 150*) | 15–50 | 15–50 |
| PN | 16 | 6/10/16 | 16 | 16 |

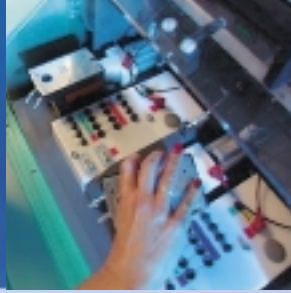
*to order

Globe valves with bus-capable actuators. For new installations Belimo can offer a selected range of globe valves in all the usual nominal sizes. The actuators that are used with them can satisfy almost all application requirements. The MFT® types which use Multi-Function Technology offer especially fine performance: their digital control system allows very precise setting and adjustment as well as linking easily into field bus systems.

Converting and retrofitting globe valves. Belimo offers a wide range of intelligent linear actuators for the motorizing and/or conversion and retrofitting of all leading makes of valve. This also means, of course, that existing equipment can be upgraded to the latest state-of-the-art at minimum cost. Suitable brackets make mounting the actuators a very simple task requiring no special tools.



It is our highly-specialized expertise and years of experience that allows us to produce the best solutions for specific needs



Efficient production and tough inspection procedures ensure top quality and excellent value for money



Our logistics capability and world-wide distribution network ensures wide availability and short deliveries



On-site advice and support from Belimo staff is the best way to achieve economic total solutions to problems

The new dimension: Top-class service from the world market leader



World market leader. In Europe at present, two out of three actuators being installed on ventilation dampers come from Belimo. In the USA the company's market share is nearly 50%. This leading position in the world is the result of the strong emphasis that we have put on HVAC actuator technology combined with our close proximity to global markets – we have our own General Agents and Representatives in more than 50 countries to keep in direct touch with our customers.

Actuator solutions from a single source. Thanks to specialized know-how and a detailed knowledge of the market Belimo is able to develop cost-effective solutions that can be tailored very accurately to users' widely-varying needs and requirements. It is all based on a total philosophy whose main aim, whatever the situation, is to offer users the very best products with which to achieve the efficient and economic motorizing of all kinds of HVAC actuators.

Top-class advice and support for the planning, execution and operation of HVAC installations



On-site advice and support. Experienced members of Belimo staff from local sales and engineering offices can provide customers with all the support they need while they are designing and implementing their systems – and extra technical support is easily available from Head Office too if necessary. Although such support primarily involves providing detailed information on products it can also extend to attending personal site meetings, and even to providing practical help and assistance when necessary.

Quality, service and information. Belimo is setting new standards for everyone in other areas too – quality-awareness, short delivery times and a proven range of services, as well as a well thought-out sales and marketing system ensuring total product availability. A very comprehensive and thorough service organisation offers round-the-clock access to all relevant data – either by personal contact or through electronic IT systems.

Air applications



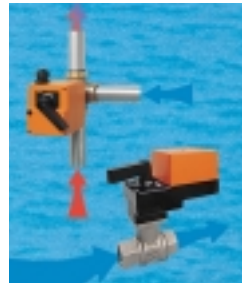
Standard actuators and spring-return actuators for air control dampers in HVAC systems



Safety actuators for motorizing fire and smoke extraction dampers



VAV systems for individual room air control



Mixing actuators and motorized ball valves for HVAC water circuits



Globe valves and intelligent linear actuators – also for leading makes of valve

Innovation, Quality and Consultancy: A partnership for motorizing HVAC actuators

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