

# Полный ассортимент продукции



Редакция 2013

# Мы устанавливаем стандарты

Являясь ведущим производителем, Belimo устанавливает стандарты для электроприводов заслонок и клапанов с электроприводом. Это демонстрируют как проверенные решения, так и постоянные инновации. Возможности интеграции, простая философия применения и установки, максимальная экономическая эффективность и известное «швейцарское качество» с 5-ти летней гарантией олицетворяет BELIMO наряду с предоставлением исчерпывающих консультаций и прекрасного сервиса.



## Безопасность значит спокойствие.

Мощный крутящий момент в новом поколении легендарных приводов с возвратной пружиной, в случае прерывания питания, надежно обеспечивают постановку заслонок, кранов и клапанов в безопасное охранное положение. А применение приводов со встроенным конденсатором с электронным управлением и предустановкой точки срабатывания охранной функции, позволяет избежать ненужного срабатывания и, следственно, возможных неисправностей в случае короткого замыкания.

## Системная интеграция с MP-Bus®

Множество различных управляющих элементов (воздушных и противопожарных клапанов, VAV-клапанов, регулирующих клапанов) могут быть объединены через Belimo MP-Bus® и связаны в систему, используя управляющий SPS / DDC контроллер с интерфейсом MP или «шлюзы» для систем полевых шин. Это снижает затраты, количество кабелей и расходы на подключение.

## Проверенная износоустойчивость.

Приводы Belimo для воздушных заслонок и приводы клапанов со степенью защиты IP66 и IP66/67 защищены от воздействия холода, пыли, влаги и агрессивных газов. Доступны версии приводов поворотных, быстрого срабатывания и с аварийной функцией – для применения как во внутренних загрязненных помещениях, так и для внешней установки.

## Стандарт

Датчик давления, контроллер и привод - VAV-Compact D3 сочетает в себе все три компонента как единое целое. Оборудованный полноценным датчиком перепада давления, он контролирует даже самые маленькие объемы потока воздуха с большой точностью. Необходимый низкий расход делает датчик значительно более устойчивым к загрязнению. Энергоэффективная и удобная работа всей системы обеспечивается благодаря точному, долгосрочному и стабильному контролю воздушного потока.

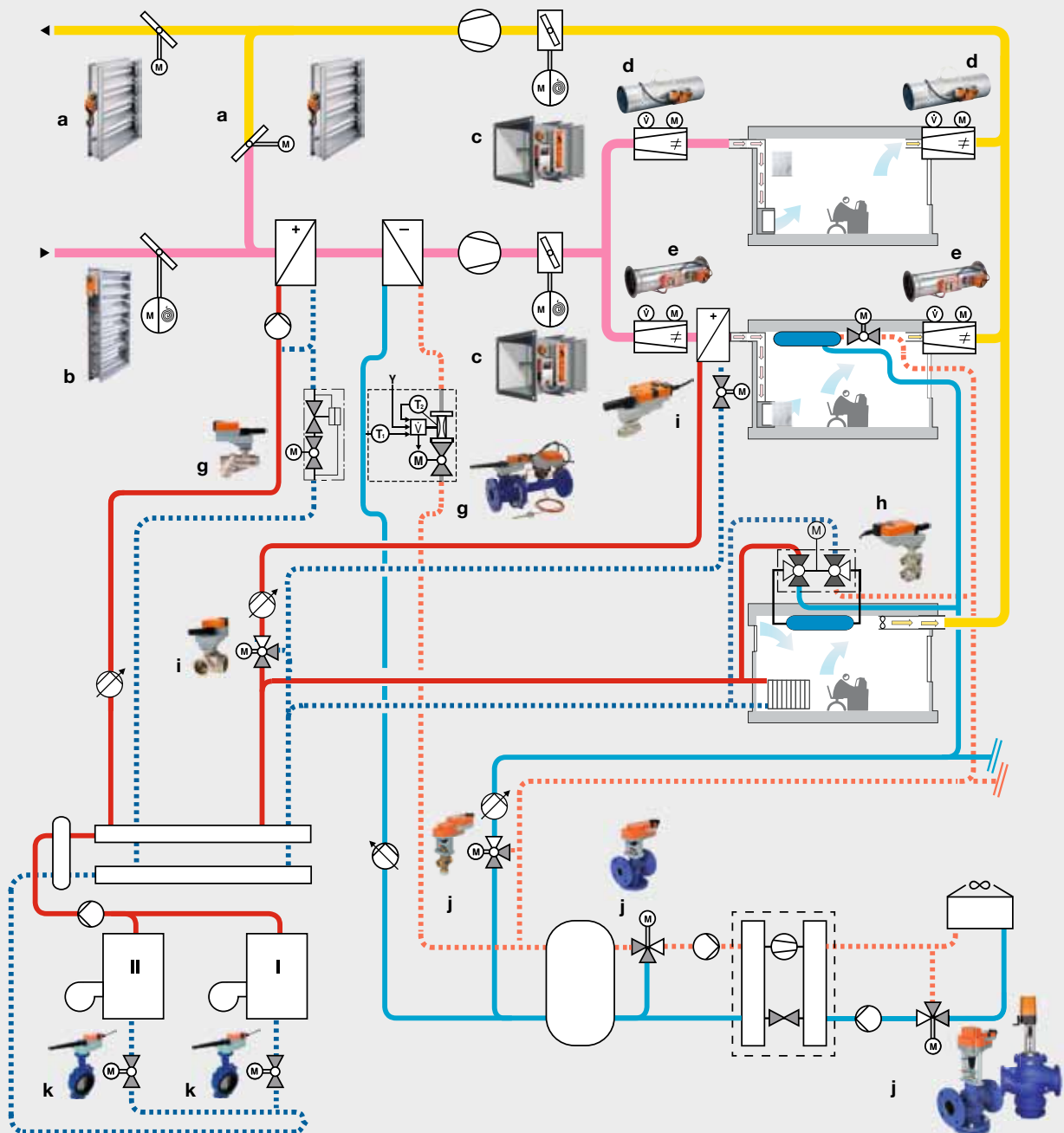
## Энергетический клапан Belimo

Этот регулирующий клапан с электронной настройкой расхода, измерением температуры и функцией мониторинга может измерять, контролировать, балансировать и запирать поток. В качестве пятой функции, новый энергетический клапан снабжен двумя датчиками, измеряющими температуру в подающем и обратном трубопроводе. Это означает, что энергетический баланс отопления/охлаждения может быть проверен, и, в случае необходимости, целенаправленно могут быть приняты меры его оптимизации.

## Новые приводы для седельных клапанов

Основываясь на проверенной технологии поворотных приводов, Belimo предлагает новое поколение приводов для седельных клапанов с усилием от 500 до 4500 Н. Они отличаются компактностью дизайна и простотой обращения. Предлагается и революционное решение - универсальный адаптер, благодаря которому привод BELIMO может быть установлен на большинство клапанов широкого круга производителей по всему миру.

# Решение всех задач из одного источника



## Воздушный поток

- a Привод воздушного клапана
- b Клапан с возвратной пружиной
- c Противопожарный клапан с приводом
- d Клапан VAV Compact
- e Клапан VAV Universal Динамический

## Водяной поток

- g Регулирующий кран независимый от перепада давления
- h 6-ходовой регулирующий кран
- i Регулирующий шаровой кран
- j Седельный клапан плавного регулирования
- k Запорный дисковый поворотный затвор








# Приводы общего применения


Приводы без охранной функции			
Продукция	Типы / классы мощностей	Применение	Specifications
	<ul style="list-style-type: none"> <li>TMC (2 )</li> <li>LM (5 )</li> <li>NM (10 )</li> <li>SM (20 )</li> <li>GM (40 )</li> </ul>	8 2	<ul style="list-style-type: none"> <li>With integrated auxiliary switch or potentiometer</li> <li>Identical accessories for all types</li> <li>Cable (IP54) or terminal connection (IP20 or IP54)</li> </ul>
	<ul style="list-style-type: none"> <li>CM (2 )</li> <li>CM..G (2 , IP66)</li> </ul>	Motorisation of air dampers without emergency control function up to 0.4 m <sup>2</sup> in apartment ventilation systems, underfloor air conditioning equipment, decentralised sill ventilation units, etc.	<ul style="list-style-type: none"> <li>Mechanical angle of rotation limitation 0...287.5°</li> <li>Rotation without limits</li> <li>Magnetic gear disengagement</li> </ul>
	Compact actuator with integrated damper blade: <ul style="list-style-type: none"> <li>CM..D (2 Nm)</li> </ul>	Motorisation of round air dampers without emergency control function up to DIN 160 in apartment ventilation systems, air distribution systems, after-flows, facade units, etc.	<ul style="list-style-type: none"> <li>Damper diameter 100, 125, 150 and 160 mm</li> <li>Air tight in accordance with DIN EN 1751, classes 3 and 2</li> <li>Sound power level =&gt; 40 dB(A)</li> <li>Useable up to a maximum of 1000 Pa</li> <li>Running time 58 s/70°</li> </ul>
Linear actuators without emergency control function			
Product range	Types / performance classes	Applications	Specifications
	Standard actuators: <ul style="list-style-type: none"> <li>LH (150 N)</li> <li>SH (450 N)</li> </ul>	Motorisation of final controlling elements with linear movements up to 300 mm for swirl outlets, long-range nozzles, mixing units, cabin units, VAV units, etc.	<ul style="list-style-type: none"> <li>Gear rod lengths 60, 100, 200 and 300 mm</li> <li>Mechanical stroke limitation every 20 mm</li> </ul>
	Compact actuator: <ul style="list-style-type: none"> <li>CH (125 N)</li> </ul>	Motorisation of air dampers without emergency control function up to 0.8 m <sup>2</sup> in apartment ventilation systems, swirl outlets, long-range nozzles, mixing units, etc.	<ul style="list-style-type: none"> <li>Gear rod lengths 60 and 100 mm</li> <li>Mechanical stroke limitation every 20 mm</li> <li>Direction of stroke can be selected</li> <li>Gearbox can be rotated by 90°</li> </ul>
Full-rotation actuators without emergency control function			
Product range	Types / performance classes	Applications	Specifications
	<ul style="list-style-type: none"> <li>LU (3 Nm)</li> </ul>	Motorisation of final controlling elements with rotary movement > 90° and VAV units, replacement for KMU	<ul style="list-style-type: none"> <li>Mechanical angle of rotation limitation up to 330°</li> <li>Electronic angle of rotation limitation up to 1800°</li> <li>Rotation without limits</li> </ul>
Very fast running actuators without emergency control function			
Product range	Types / performance classes	Applications	Specifications
	Rotary actuators: <ul style="list-style-type: none"> <li>LMQ (4 Nm)</li> <li>NMQ (8 Nm)</li> <li>SMQ (16 Nm)</li> <li>SMD (16 Nm)</li> </ul>	Motorisation of air dampers without emergency control function up to 3 m <sup>2</sup> for industrial suction plants, laboratories, painting and welding plants, etc.	<ul style="list-style-type: none"> <li>Identical accessories for all types</li> <li>Very fast running times starting with 2.5 s/90°</li> </ul>
	Linear actuators: <ul style="list-style-type: none"> <li>LHQ (100 N)</li> <li>SHQ (200 N)</li> </ul>	Motorisation of final controlling elements and slide valves with linear movement up to 100 mm for wood boilers, mixing units, tilt windows, etc.	<ul style="list-style-type: none"> <li>Gear rod length 100 mm</li> <li>Mechanical stroke limitation every 20 mm</li> <li>Running times starting from 3.5 s/100 mm</li> </ul>

# General air solutions.

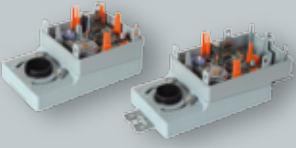
## RobustLine rotary actuators with and without emergency control function for extreme environment conditions

Product range	Types / performance classes	Applications	Specifications
	<ul style="list-style-type: none"> <li>NM..P (10 Nm)</li> <li>SM..P (20 Nm)</li> <li>NKQ..P (6 Nm, motor running time 4 s)</li> </ul>	<p>Motorisation of air dampers without emergency control function up to 3.6 m<sup>2</sup> in particularly exposed positions:</p> <ul style="list-style-type: none"> <li>Protection against aggressive gases, moisture, humidity, high dust and contamination levels</li> <li>General outdoor applications, kiln drying plants, agriculture, swimming pool installations, greenhouses, etc.</li> </ul>	<ul style="list-style-type: none"> <li>IP66/67, UV protection, corrosion-resistant</li> <li>Integrated auxiliary switch or potentiometer</li> </ul> <p>Optional for operating temperatures down to -40°C:</p> <ul style="list-style-type: none"> <li>Heating with humidistat</li> <li>Heating with thermostat</li> </ul>

## Rotary actuators with and without emergency control function for outdoor applications

Product range	Types / performance classes	Applications	Specifications
	<ul style="list-style-type: none"> <li>GM..G (40 Nm)</li> <li>SMQ..G (16 Nm, motor running time 7 s)</li> <li>GK..G (40 Nm)**</li> <li>NF..G (10 Nm)*</li> <li>SF..G (20 Nm)*</li> </ul> <p>Emergency control function: * mechanical ** electrical</p>	<p>Motorisation of air dampers with and without emergency control function up to 8 m<sup>2</sup></p> <ul style="list-style-type: none"> <li>Protection against moisture, humidity, high dust and contamination levels</li> <li>General outdoor applications, greenhouses, etc.</li> <li>Rooftop ventilation plant rooms</li> </ul>	<ul style="list-style-type: none"> <li>IP66/NEMA4, UV protection</li> <li>Integrated auxiliary switch or potentiometer</li> </ul> <p>Optional for operating temperatures down to -40°C:</p> <ul style="list-style-type: none"> <li>Heating with humidistat</li> <li>Heating with thermostat</li> </ul>

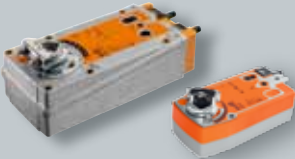
## Platform for rotary actuators without emergency control function

Product range	Types / performance classes	Applications	Specifications
	<ul style="list-style-type: none"> <li>TM24E.. (2 Nm)</li> <li>LM24E.. (5 Nm)</li> <li>NM24E.. (10 Nm)</li> <li>SM24E.. (20 Nm)</li> </ul>	<p>Motorisation of air dampers up to 4 m<sup>2</sup></p>	<p>A platform for customers who wish to implement an actuator of their own, based on proven Belimo technology and quality.</p>

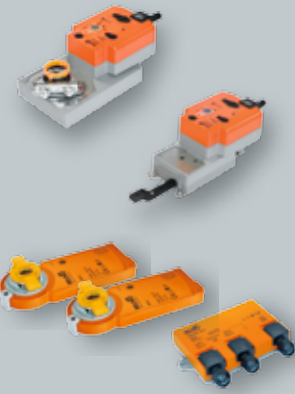
# System protection.



## Rotary actuators with mechanical emergency control function (spring package)

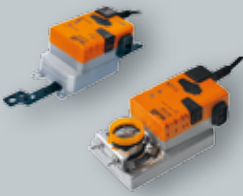
Product range	Types / performance classes	Applications	Specifications
	<ul style="list-style-type: none"> <li>TF (2 Nm)</li> <li>LF (4 Nm)</li> <li>NF (10 Nm)*</li> <li>SF (20 Nm)*</li> <li>EF (30 Nm)*</li> </ul> <p>* with 2 integrated auxiliary switches</p>	<p>Motorisation of air dampers with emergency control function up to 6 m<sup>2</sup></p>	<ul style="list-style-type: none"> <li>Automatic closing function in the event of an electricity interruption in &lt; 20 s</li> <li>Manual override</li> </ul>

## Rotary and linear actuators with controlled electrical emergency control function (SuperCaps)


Product range	Types / performance classes	Applications	Specifications
	<p>Rotary actuators with emergency control function:</p> <ul style="list-style-type: none"> <li>NKQ (6 Nm, running time 4 s)</li> <li>GK (40 Nm, running time 150 s)</li> </ul> <p>Linear actuators with emergency control function:</p> <ul style="list-style-type: none"> <li>SHK (450 N, 100 mm stroke, running time 150 s)</li> <li>LHK (150 N, 100 mm stroke, running time 150 s)</li> </ul> <p>Compact actuators with emergency control function:</p> <ul style="list-style-type: none"> <li>CM24K (2 Nm)</li> <li>SKM230A</li> </ul>	<p>Motorisation of air dampers with emergency control function up to 8 m<sup>2</sup></p> <p>Motorisation of air dampers with up to 0.4 m<sup>2</sup>. Particularly suitable in decentralised air handling units, apartment ventilation systems and with extremely limited space conditions</p>	<ul style="list-style-type: none"> <li>Integrated energy storage; actuator moves into predefined emergency setting position in &lt; 35 s in the event of electricity interruption («Controlled Power-Off» function)</li> <li>Bridging of voltage interruptions of up to 10 s</li> <li>Emergency setting position adjustable between 0...100%</li> <li>Energy storage module: moves 2 CM actuators into closing position in &lt; 15 s in the event of electricity interruption («Controlled Power-Off» function)</li> </ul>

# Room and system solutions.


## VAV-Compact controllers<sup>1)</sup>

Product range	Types / performance classes	Applications	Specifications
	Rotary actuators: <ul style="list-style-type: none"> <li>• LMV-D3-MP (5 Nm)</li> <li>• NMV-D3-MP (10 Nm)</li> <li>• LMV-D3LON (5 Nm)</li> <li>• NMV-D3LON (10 Nm)</li> <li>• LMV-D3-MOD (5 Nm)</li> <li>• NMV-D3-MOD (10 Nm)</li> </ul> Linear actuator: <ul style="list-style-type: none"> <li>• LHV-D3-MP (150 N)</li> </ul>	Types with linear or rotary movement for controlling VAV and CAV units for volumetric air flow systems in buildings	<ul style="list-style-type: none"> <li>• Compact unit with sensor, controller and actuator</li> <li>• On-site operation with ZTH-GEN</li> <li>• Commissioning by means of PC-Tool, including trend function</li> <li>• Integration in MP-Bus®, MODBUS or LonWorks® networks</li> </ul>


## VAV-Universal solutions<sup>1)</sup>

Product range	Types / performance classes	Applications	Specifications
	VAV-Universal controller: <ul style="list-style-type: none"> <li>• VRD3 with integrated sensor</li> <li>• VRP with external sensor</li> <li>• VRP-M with external sensor</li> </ul>	<ul style="list-style-type: none"> <li>• Control of VAV and CAV units in buildings</li> <li>• VAV laboratory applications</li> <li>• Pressure or volumetric flow</li> <li>• Fast running actuators</li> </ul>	<ul style="list-style-type: none"> <li>• Plug-and-socket connectors between sensor, controller and actuator</li> <li>• Wide array of periphery devices</li> </ul>
	VAV-Universal pressure sensor (static 0...600 Pa): <ul style="list-style-type: none"> <li>• VFP100 / ...300 / ...600</li> </ul>	<ul style="list-style-type: none"> <li>• For severely contaminated air or aggressive gases</li> <li>• Room ventilation and comfort applications</li> </ul>	<ul style="list-style-type: none"> <li>• Plug-and-socket connectors to VRP/VRP-M</li> </ul>
	VAV-Universal pressure sensor (dynamic 0...600 Pa): <ul style="list-style-type: none"> <li>• VFD3</li> </ul>		
	Damper actuators: <ul style="list-style-type: none"> <li>• LM, NM, SM series (5...20 Nm)</li> <li>• Fast runners LMQ/NMQ (4/8 Nm)</li> <li>• Spring-return actuators, LF and SF series (4/20 Nm)</li> </ul>	Utilisation in connection with VAV-Universal	<ul style="list-style-type: none"> <li>• Plug-and-socket connectors</li> <li>• Wide coverage through different motor variants</li> <li>• Running times starting from 2.5 s</li> </ul>

## Fan control




Product range	Types	Applications	Specifications
	<ul style="list-style-type: none"> <li>• COU24-A-MP</li> </ul>	Optimiser system solution for energy-efficient control of frequency converter-controlled fans in VAV/CAV systems <ul style="list-style-type: none"> <li>• Reduced air flow noise thanks to lower supply pressure in the air duct system</li> <li>• Up to 50% less power consumption</li> </ul>	<ul style="list-style-type: none"> <li>• MP-Bus® connection for VAV-Compact, VRP-M</li> <li>• 0...10 V FC output signal</li> <li>• Control 0...10 V from room controller or via DDC with MP interface</li> </ul>

## Room controller system solutions




Product range	Types / performance classes	Applications	Specifications
	Room controllers: <ul style="list-style-type: none"> <li>• With operation: CR24-B..</li> <li>• Without operation: CR24-A..</li> </ul> Controllers for apartments: <ul style="list-style-type: none"> <li>• With operation: CRA24-B3</li> <li>• With concealed setpoint adjustment: CRA24-B3P</li> </ul> Controller for the 6-way valve: <ul style="list-style-type: none"> <li>• With operation: CRK24-B1</li> </ul> Positioner CRP24-B1: <ul style="list-style-type: none"> <li>• With operation</li> <li>• With output 0...10 V or 2...10 V</li> </ul>	Individual room control in comfort zone for: <ul style="list-style-type: none"> <li>• VAV or air dampers</li> <li>• Water or supplementary heaters</li> <li>• Heating valve</li> <li>• Cooling ceilings or aftercoolers</li> <li>• Combined systems</li> <li>• Cooling/heating ceilings in combination with the 6-way characterised control valve</li> </ul> Setpoint specification for: <ul style="list-style-type: none"> <li>• VAV controller</li> <li>• Damper actuators</li> <li>• Valve actuators</li> </ul>	<ul style="list-style-type: none"> <li>• Complete solution</li> <li>• Energy-efficient (eu.bac-certified)</li> <li>• Application-specific override functions</li> <li>• Output DC 0...10 V or DC 2...10 V switchable</li> <li>• Tool plug on the unit</li> </ul>

<sup>1)</sup> Deliveries exclusively to damper manufacturers (except for communications and control units).

## Motorisation solutions for fire and smoke protection dampers<sup>1)</sup>

Product range	Types / performance classes	Applications	Specifications
	Actuators: <ul style="list-style-type: none"> <li>• BLF (6 Nm)</li> <li>• BF (18 Nm)</li> </ul>	Motorisation of small and large fire and smoke protection dampers	<ul style="list-style-type: none"> <li>• Steel housing, form-fit</li> <li>• Auxiliary switches (1 mA to 6 A)</li> <li>• Halogen-free cables, low current consumption</li> <li>• Thermoelectric tripping device (function-protected) with test pushbutton and status LED</li> <li>• In conjunction with the damper, fulfills the requirements pursuant to EN 1366-2</li> </ul>
	Communication and power supply units: <ul style="list-style-type: none"> <li>• BKN230-24</li> <li>• BKN230-24LON</li> <li>• BKN230-24MP</li> <li>• BKN230-24-C-MP</li> </ul> Co-ordinated solutions: <ul style="list-style-type: none"> <li>• UK24MOD or UK24BAC</li> <li>• BKN230-24-C-MP</li> </ul>	Control and monitoring (various protocols): <ul style="list-style-type: none"> <li>• Standard (2-wire line)</li> <li>• LONWORKS®</li> <li>• Belimo MP-Bus®</li> </ul> Integration of motorised fire dampers in Modbus or BACnet networks	<ul style="list-style-type: none"> <li>• Sockets for actuator</li> <li>• Status LED</li> <li>• Connection for additional smoke detector contact</li> <li>• Up to 8 dampers per controller</li> <li>• Known protocol</li> <li>• Watchdog function (damper closes when communication is interrupted)</li> <li>• Feedback</li> </ul>
	Communication and control units: <ul style="list-style-type: none"> <li>• BKS24-1B</li> <li>• BKS24-9A</li> </ul>	Connection of 1 to 9 dampers: <ul style="list-style-type: none"> <li>• Star-shaped wiring</li> <li>• 2-wire line</li> <li>• Interface with building management technology</li> <li>• Manual operation level</li> </ul>	<ul style="list-style-type: none"> <li>• Status LEDs               <ul style="list-style-type: none"> <li>– Open</li> <li>– Closed</li> <li>– Fault</li> </ul> </li> <li>• Plug-in connections</li> </ul>

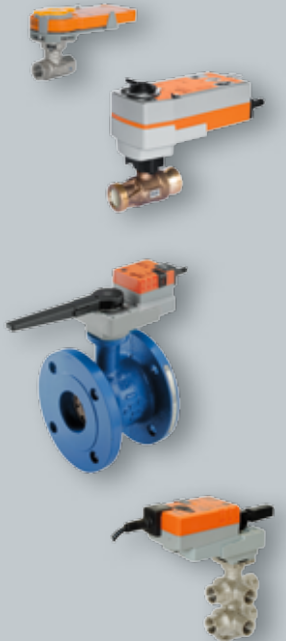
## Motorisation solutions for smoke control dampers<sup>1)</sup>

Product range	Types / performance classes	Applications	Specifications
	Actuators: <ul style="list-style-type: none"> <li>• BLE (15 Nm)</li> <li>• BE (40 Nm)</li> </ul>	Motorisation of small and large smoke control dampers in mechanical smoke control systems	<ul style="list-style-type: none"> <li>• Steel housing, form-fit</li> <li>• Auxiliary switches (1 mA to 6 A)</li> <li>• Halogen-free cables, low current consumption</li> <li>• 1-wire and 2-wire control</li> <li>• High holding torque</li> <li>• In conjunction with the damper, fulfills the requirements pursuant to EN 1366-10</li> </ul>
	Communication and power supply unit: <ul style="list-style-type: none"> <li>• BKNE230-24</li> </ul>	Control and monitoring: <ul style="list-style-type: none"> <li>• Standard (2-wire line)</li> </ul>	<ul style="list-style-type: none"> <li>• Sockets for actuator</li> <li>• Status LED</li> <li>• Command memory</li> </ul>
	Communication and control unit: <ul style="list-style-type: none"> <li>• BKSE24-6</li> </ul>	Connection of up to 6 dampers: <ul style="list-style-type: none"> <li>• Star-shaped wiring</li> <li>• 2-wire line</li> <li>• Interface with building management technology and BMA</li> <li>• Manual operation level</li> </ul>	<ul style="list-style-type: none"> <li>• Status LEDs               <ul style="list-style-type: none"> <li>– Open</li> <li>– Closed</li> <li>– Fault</li> </ul> </li> <li>• Permanent monitoring of the power supply and damper positions</li> <li>• Plug-in connections</li> </ul>


<sup>1)</sup> Deliveries exclusively to damper manufacturers (except for communications and control units).

# Water solutions.

## Characterised control valves


Product range	Valves	Applications	Actuators
	<b>Internal thread:</b> <ul style="list-style-type: none"> <li>• R2..-S.. (2-way)</li> <li>• R3..-S.. (3-way)</li> </ul>	<b>Cold, hot, domestic water:</b> <ul style="list-style-type: none"> <li>• Nominal diameters DN 15...50</li> <li>• Allowed pressure [kPa]: 1600</li> </ul>	<ul style="list-style-type: none"> <li>• Rotary actuators: TR, LR, NR, SR series</li> <li>• With emergency control function: TRF, LRF, NRF(D), SRF series</li> <li>• Fast runners: TRC, LRC, NRC, SRC series</li> <li>• Very fast running actuators: LRQ, NRQ, SRQ series</li> <li>• KR.. to DN 20</li> </ul> DN 65...150 <ul style="list-style-type: none"> <li>• Rotary actuators: SR-5, GR-5 series</li> <li>• With emergency control function: SRF-5, GRK-5 series</li> <li>• Fast runners: SRC-5, GRC-5 series</li> </ul> <ul style="list-style-type: none"> <li>• Rotary actuators: LR24A-SR, LR24A-MP, HR24-SR</li> </ul>
	<b>External thread:</b> <ul style="list-style-type: none"> <li>• R4.. (2-way)</li> <li>• R5.. (3-way)</li> </ul>	<b>Cold, hot, domestic water:</b> <ul style="list-style-type: none"> <li>• Nominal diameters DN 10...50</li> <li>• Allowed pressure [kPa]: 1600</li> </ul>	
	<b>External thread (high temperatures):</b> <ul style="list-style-type: none"> <li>• R4..D (2-way)</li> </ul>	<b>District heating, domestic and drinking water:</b> <ul style="list-style-type: none"> <li>• Nominal diameters DN 10...20</li> <li>• Allowed pressure [kPa]: 2700</li> </ul>	
	<b>Flange:</b> <ul style="list-style-type: none"> <li>• R6..R.. (2-way / PN6)</li> <li>• R7..R.. (3-way / PN6 / DN 15...50)</li> </ul>	<b>Cold, hot, domestic water:</b> <ul style="list-style-type: none"> <li>• Nominal diameters DN 15...50 (2-way)</li> <li>• Allowed pressure [kPa]: 600</li> </ul>	
	<ul style="list-style-type: none"> <li>• R6..W..-S8 (2-way)</li> </ul>	<ul style="list-style-type: none"> <li>• Nominal diameters DN 65...150</li> <li>• Allowed pressure [kPa]: 1600</li> </ul>	
	<b>Internal thread:</b> <ul style="list-style-type: none"> <li>• R30...-...-B2 (6-way)</li> </ul>	<b>Modulating control of thermal heated and chilled ceilings:</b> <ul style="list-style-type: none"> <li>• Nominal diameters DN 15/20</li> <li>• Allowed pressure [kPa]: 1000</li> </ul>	

## Pressure-independent characterised control valves

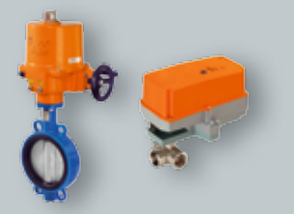
Product range	Valves	Applications	Actuators
	<b>Internal thread:</b> <ul style="list-style-type: none"> <li>• R2..P- (2-way)</li> </ul>	<b>Balance, control and shut-off with a single valve:</b> <ul style="list-style-type: none"> <li>• Flow <math>V_{MAX}</math> [l/s]: 0.04...5.5</li> <li>• Nominal diameters DN 15...50</li> <li>• Allowed pressure [kPa]: 1600</li> </ul>	<ul style="list-style-type: none"> <li>• Rotary actuators: KR, TR, LR, NR, SR series</li> <li>• With emergency control function: TRF, LRF, NRF(D), SRF series</li> <li>• Fast runners: LRC, NRC, SRC series</li> <li>• Very fast running actuators: LRQ, NRQ, SRQ series</li> </ul> <ul style="list-style-type: none"> <li>• Integrated actuator</li> </ul> <ul style="list-style-type: none"> <li>• Integrated actuator with monitoring and recording function</li> </ul>
	<b>Flange (EPM):</b> <ul style="list-style-type: none"> <li>• P6..W..E-MP (2-way)</li> </ul>	<b>Balance, measurement, control and shut-off with a single valve:</b> <ul style="list-style-type: none"> <li>• Flow <math>V_{MAX}</math> [l/s]: 3.6...45</li> <li>• Nominal diameters DN 65...150</li> <li>• Allowed pressure [kPa]: 1600</li> </ul>	
	<b>Flange (Belimo Energy Valve™):</b> <ul style="list-style-type: none"> <li>• P6..W..EV-BAC (2-way)</li> </ul>	<b>Balance, measurement, control, shut-off and energy monitoring:</b> <ul style="list-style-type: none"> <li>• Flow <math>V_{MAX}</math> [l/s]: 3.6...45</li> <li>• Nominal diameters DN 65...150</li> <li>• Allowed pressure [kPa]: 1600</li> </ul>	

# Water solutions.


## Shut-off and change-over valves

Product range	Valves	Applications	Actuators
	<b>Internal thread:</b> <ul style="list-style-type: none"> <li>R3..-BL.. (3-way)</li> <li>Open-close ball valve R..</li> </ul>	<b>«Change-over» functions:</b> <ul style="list-style-type: none"> <li>Nominal diameters DN 15...50</li> <li>Allowed pressure [kPa]: 1600</li> </ul> Shut-off of cold, hot, domestic water: <ul style="list-style-type: none"> <li>Nominal diameters DN 15...50</li> <li>Allowed pressure [kPa]: 1600</li> </ul>	<ul style="list-style-type: none"> <li>Rotary actuators: TR, KR, LR, NR, SR series</li> <li>With emergency control function: TRF, LRF, NRF, SRF, GRK series</li> </ul>
	<b>Flange PN16 (6/10):</b> <ul style="list-style-type: none"> <li>D6..N (2-way)</li> <li>D6..NL (2-way)</li> </ul>	Shut-off of cold, hot, domestic water: <ul style="list-style-type: none"> <li>Nominal diameters DN 25...700</li> </ul>	<ul style="list-style-type: none"> <li>Rotary actuators: SR-5, GR-5, GR-7, DGR-7, DR..G-7, SY series</li> <li>With emergency control function: SRF-5, GRK-5 series</li> </ul>

## Control, shut-off and change-over valves for outdoor applications

Product range	Valves	Applications	Actuators
	<ul style="list-style-type: none"> <li>Characterised control valves R..</li> <li>Open-close ball valves R..</li> </ul> <ul style="list-style-type: none"> <li>Butterfly valves D6..N/D6..NL</li> </ul>	Applications in IP66/67 environments: <ul style="list-style-type: none"> <li>Nominal diameters for R...: DN 10...50</li> <li>Nominal diameters for D6..N/D6..NL: DN 25...700</li> </ul>	<ul style="list-style-type: none"> <li>Rotary actuators: SR..P series IP66/67</li> </ul> Optional: <ul style="list-style-type: none"> <li>Heating with humidistat/thermostat</li> <li>Integrated auxiliary switch or potentiometer</li> <li>GR.. series IP66, SY.. series IP67</li> <li>SRF series IP66</li> </ul>

## Globe valves

Product range	Valves	Applications	Actuators
	<b>External thread:</b> <ul style="list-style-type: none"> <li>H4..B (2-way)</li> <li>H5..B (3-way)</li> </ul>	Cold, hot, domestic water: <ul style="list-style-type: none"> <li>Nominal diameters DN 15...50</li> <li>Allowed pressure [kPa]: 1600</li> </ul>	<ul style="list-style-type: none"> <li>Globe valve actuators without emergency control function: LV..A (15 mm), NV..A, SV..A (20 mm), EV..A, RV..A (40 mm)</li> <li>Globe valve actuators with emergency control function: NVK..A, SVK..A (20 mm), AVK..A (32 mm), NVFT (20 mm, TÜV certification)</li> <li>Fast runners: LVC..A (15 mm), NVC..A, SVC..A (20 mm), EVC..A (40 mm)</li> <li>Long stroke actuators: GV (65 mm)</li> </ul>
	<b>Flange:</b> <ul style="list-style-type: none"> <li>H6..N/H7..N (2-way and 3-way/PN16)</li> <li>H6..S(P) (2-way/PN16) for hot water and steam</li> <li>H6..W..S7/H7..W..S7 (2-way and 3-way/PN16), DN 200/250</li> </ul>	Cold and heating water: <ul style="list-style-type: none"> <li>Nominal diameters DN 15...250</li> <li>Allowed pressure [kPa]: 1600</li> </ul>	
	<b>Additional flange versions:</b> <ul style="list-style-type: none"> <li>H..R (2-way and 3-way/PN6)</li> <li>H..X.. (2-way and 3-way/PN25)</li> <li>H..Y.. (3-way/PN40)</li> </ul>	<ul style="list-style-type: none"> <li>Nominal diameters DN 15...100</li> <li>Allowed pressure [kPa]: 600</li> <li>Allowed pressure [kPa]: 2500</li> <li>Allowed pressure [kPa]: 4000</li> </ul>	

# All-inclusive.



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