


The complete product range.



Edition 2012

The logo for BELIMO, featuring the word "BELIMO" in a bold, black, sans-serif font. Above the letters "I" and "M" are two parallel orange diagonal lines. A registered trademark symbol (®) is located to the upper right of the word.

We set standards.



As the leading manufacturer, Belimo sets standards for electrical damper actuators and motorised valves. This is demonstrated by proven solutions and fresh innovations. An integrated, simple installation and application philosophy, maximum economic efficiency and the proverbial «Swiss Quality» with 5-year guarantee are just as much a matter of course as are comprehensive consultation and service offerings.

Safety gives peace of mind

Powerful torques in the new generation of the legendary spring-return actuators ensure that dampers and valves will move reliably into their predefined emergency positions, even when power service is interrupted. In the case of the trend-setting SuperCap actuators with electronically controlled «Controlled Power Off» function, the safety functions can be individualised and short electricity interruptions can be bridged. This prevents unnecessary operational breakdowns.

System integration with MP-Bus®

A variety of different final controlling elements (air and fire dampers, VAV units, control valves) can be combined through the Belimo MP-Bus® and connected as a bundled unit by an MP master – SPS/DDC controller with MP interface or «Gateways» to field bus systems. This reduces costs, cabling outlays and data points.

Endurance test fulfilled

Belimo damper and valve actuators with the IP66 and IP66/67 degree of protection resist cold, dust, moisture and aggressive gases. They are available as rotary, fast running and emergency control actuators – for interior applications in severely contaminated areas and for outside use in wind and weather.

The original – now even better

Pressure sensor, controller and actuator – the VAV-Compact D3 combines all three components in a single unit. Equipped with a new differential pressure sensor, it controls even the smallest volumetric air flow with great precision. The very low flow rate makes the sensor considerably more robust against contamination. Energy efficient and convenient operation of the systems is ensured, thanks to the exact and long-term stability of the control of the air flow.

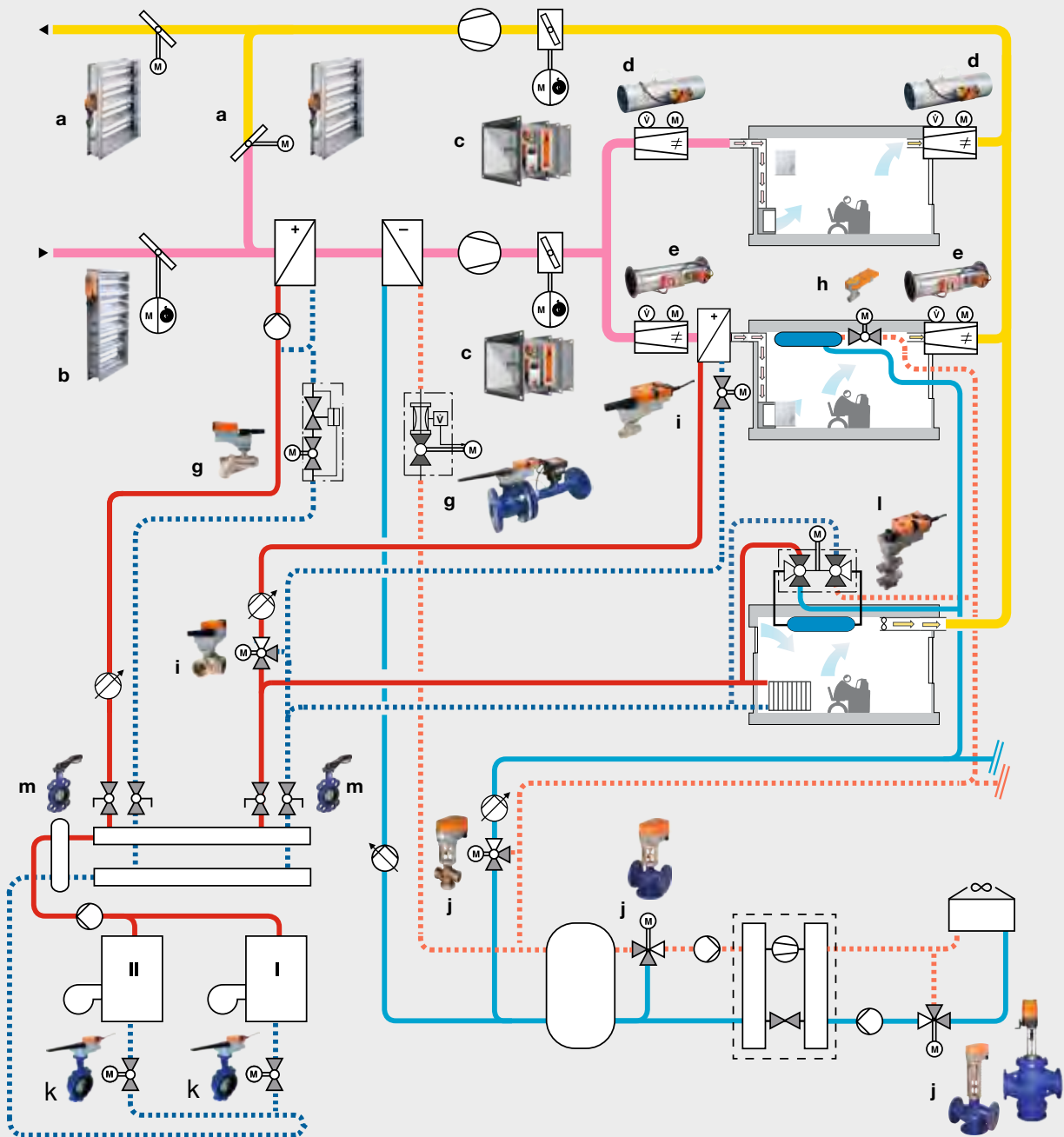
4 functions in a single valve

Measurement, control, balance and shut-off with a single valve – the new pressure-independent EPIV characterised control valve with electronic flow rate setting now makes it possible for nominal diameters of DN 65 to DN 150. As the only valve of this type, it is also equipped with a sensor-driven electronic flow rate controller. This guarantees absolute control stability and maximum convenience.

New generation of characterised control valves

The new characterised control valves are suitable for medium temperatures from -10°C to $+120^{\circ}\text{C}$. New valve-actuator connections practically exclude the possibility of installation error. The unique characterizing disk guarantees first-class control properties with equal percentage valve characteristic line. They can be combined with emergency control actuators for effective unit protection.

Total solutions from a single source.



Air applications

- a Air damper, actuator without emergency control function
- b Air damper, actuator with emergency control function
- c Fire damper and actuator
- d VAV unit Compact
- e VAV unit Universal Dynamic

Water applications

- g Pressure-independent characterised control valve
- h Characterised control valve for cooling ceilings
- i Characterised control valve
- j Globe valve modulating, large globe valves modulating
- k Butterfly valves ON/OFF
- l 6-way characterised control valve for heating/cooling ceiling
- m Shut-off damper



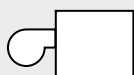
Fan



Air heater



Air cooler



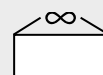
Boiler



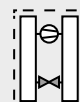
Pump



RPM-adjusted pump



Heat exchanger




Chiller





Cold water reservoir

Retrofit general air solutions.

Damper actuators without emergency control function			
Product range	Types / performance classes	Applications	Specifications
	<ul style="list-style-type: none"> LM24A-MF-TP (5 Nm) NM24A-MF-TP (10 Nm) SM24A-MF-TP (20 Nm) GM24A-MF-TP (40 Nm) SM24A-R9 (20 Nm, 0...135 Ω) SM24A-PC (20 Nm, 0...20V phase-cut signal) SM24A-MA (20 Nm, 4...20 mA) LH24A-MF60-TP LH24A-MF100-TP LH24A-MF200-TP LH24A-MF300-TP 	<p>Replacement of the motorisation of air dampers without emergency control function up to 8 m²</p>	<ul style="list-style-type: none"> Multifunctional MF types can be freely programmed and optimally adjusted to match the application Identical accessories such as auxiliary switches and potentiometers for all rotary actuators Identical accessories such as rotary support and coupling pieces for all linear actuators TP terminals (terminal protected) with IP54 cover

Retrofit water solutions.

Globe valve actuators			
Product range	Valves	Applications	Actuators
	<p>Globe valves from various manufacturers</p>	<p>Motorisation of globe valves with nominal diameters DN 15...150</p>	<ul style="list-style-type: none"> NV.-R globe valve actuators with valve-specific UNV (bracket and valve and stem adapter) AV.-R globe valve actuators with valve-specific ZAV (valve and stem adapter) NRDVX short stroke actuators with adapter for Siemens or Cazzaniga short stroke globe valves
Rotary valve actuators			
Product range	Valves	Applications	Actuators
	<p>Rotary valves from various manufacturers:</p> <ul style="list-style-type: none"> Ball valves Shut-off ball valves Butterfly valves Mixing valves <p>A check must be made of the required torque</p>	<p>Motorisation of valves with:</p> <ul style="list-style-type: none"> Interface ISO 5211: F03/F04/F05/F07 or F10 Up to nominal diameter DN 700: upon request 	<ul style="list-style-type: none"> Rotary actuators SR-R, GR-R (up to 40 Nm) with adapter (square shaft, 2-flat, wedge groove) With emergency control function: SRF-R and GRK-R (up to 40 Nm) with adapter (square shaft, 2-flat, wedge groove) SY rotary actuator with adapter: 35...3500 Nm

Bus and system applications.

Belimo MP-Bus®

Product range

Applications

- Master/Slave system, specially developed by Belimo for HVAC actuators and sensors
- Up to 8 different controlling elements (dampers, valves, VAV controllers) can be grouped together and connected to a higher-level field bus system (LonWorks®, EIB/KNX, Ethernet TCP/IP, Modbus RTU, Profibus etc.)
- Belimo gateways (UK24LON, UK24EIB, UK24MOD, UK24BAC) or gateways and DDC controllers from other manufacturers with MP interface serve as MP master
- One sensor can also be connected per actuator

LON actuators

Product range

Applications

- LonMark®-certified actuators with built-in transceiver FTT-10A can be connected directly to LonWorks®
- Integrated temperature controller (Functional Profile LonMark® #8060) enables the inexpensive implementation of single-room controls
- One sensor can also be connected per actuator
- LNS plug-ins for simplified commissioning and monitoring

MODBUS actuators

Product range

Applications


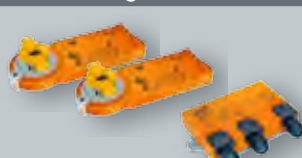



- Actuators with built-in MODBUS interface can be connected directly to Modbus RTU (RS485)
- Communications parameters (address, baud rate, transmission format, etc.) and actuator settings (running time, scaling, etc.) can be adjusted with the service tool ZTH-GEN
- One sensor can also be connected per actuator

Adjustment and service tools.

For MFT- / MFT2- / MF- / MP actuators


Type	Specifications	Type	Specifications
<p>PC-Tool MFT-P</p>	<ul style="list-style-type: none"> • Convenient application-specific modification of the actuator by means of parameterisation • Simple diagnostics with commissioning and maintenance • Graphics depiction of setpoint, actual value and position 	<p>ZTH-GEN service tool</p>	<ul style="list-style-type: none"> • Efficient setting of actuator parameters • Diagnostics and test functions • Reverse-compatible for all Belimo PP/MP devices beginning with 1992

General air solutions.


Compact actuators without emergency control function			
Product range	Types / performance classes	Applications	Specifications
	Rotary actuators <ul style="list-style-type: none"> • CM (2 Nm) • CM..G (2 Nm, IP66) 	Motorisation of air dampers without emergency control function up to 0.4 m ² in apartment ventilation systems, underfloor air conditioning equipment, decentralised sill ventilation units, etc.	<ul style="list-style-type: none"> • Mechanical angle of rotation limitation 0...287.5° • Rotation without limits • Magnetic gear disengagement
	Linear actuators <ul style="list-style-type: none"> • CH (125 N) 	Motorisation of air dampers without emergency control function up to 0.8 m ² in apartment ventilation systems, swirl outlets, long-range nozzles, mixing units, etc.	<ul style="list-style-type: none"> • Gear rod lengths 60 and 100 mm • Mechanical stroke limitation every 20 mm • Direction of stroke can be selected • Gearbox can be rotated by 90°
Compact actuators without emergency control function with integrated damper blade			
Product range	Types / performance classes	Applications	Specifications
	<ul style="list-style-type: none"> • CM..D (2 Nm) 	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"> • Damper diameter 100, 125, 150 and 160 mm • Air tight in accordance with DIN EN 1751, classes 3 and 2 • Sound power level => 40 dB(A) • Useable up to a maximum of 1000 Pa • Running time 58 s/70°
Compact actuators and SuperCap module with controlled electrical emergency control function (Controlled Power Off)			
Product range	Types / performance classes	Applications	Specifications
	<ul style="list-style-type: none"> • CM24K (2 Nm) • SKM230A 	Motorisation of air dampers with «Controlled Power Off» function up to 0.4 m ² . Particularly suitable in decentralised air handling units, apartment ventilation systems and with extremely limited space conditions	<ul style="list-style-type: none"> • Energy storage module: moves 2 CM actuators into closing position in < 15 s in the event of electricity interruption
Rotary actuators without emergency control function			
Product range	Types / performance classes	Applications	Specifications
	<ul style="list-style-type: none"> • TMC (2 Nm) • LM (5 Nm) • NM (10 Nm) • SM (20 Nm) • GM (40 Nm) 	Motorisation of air dampers without emergency control function up to 8 m ²	<ul style="list-style-type: none"> • With integrated auxiliary switch or potentiometer • Identical accessories for all types • Cable (IP54) or terminal connection (IP20 or IP54)
Linear actuators without emergency control function			
Product range	Types / performance classes	Applications	Specifications
	<ul style="list-style-type: none"> • LH (150 N) • SH (450 N) 	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"> • Gear rod lengths 60, 100, 200 and 300 mm • Mechanical stroke limitation every 20 mm
Full-rotation actuators without emergency control function			
Product range	Types / performance classes	Applications	Specifications
	<ul style="list-style-type: none"> • LU (3 Nm) 	Motorisation of final controlling elements with rotary movement > 90° and VAV units, replacement for KMU	<ul style="list-style-type: none"> • Mechanical angle of rotation limitation up to 330° • Electronic angle of rotation limitation up to 1800° • Rotation without limits
Very fast running actuators without emergency control function			
Product range	Types / performance classes	Applications	Specifications
	Rotary actuators <ul style="list-style-type: none"> • LMQ (4 Nm) • NMQ (8 Nm) • SMQ (16 Nm) • SMD (16 Nm) 	Motorisation of air dampers without emergency control function up to 3 m ² for industrial suction plants, laboratories, painting and welding plants, etc.	<ul style="list-style-type: none"> • Identical accessories for all types • Very fast running times starting with 2.5 s/90°
	Linear actuators <ul style="list-style-type: none"> • LHQ (100 N) • SHQ (200 N) 	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"> • Gear rod length 100 mm • Mechanical stroke limitation every 20 mm • Running times starting from 3.5 s/100 mm

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"> NM..P (10 Nm) SM..P (20 Nm) NKQ..P (6 Nm, motor running time 4 s) 	<p>Motorisation of air dampers without emergency control function up to 3.6 m² in particularly exposed positions:</p> <ul style="list-style-type: none"> Protection against aggressive gases, moisture, humidity, high dust and contamination levels General outdoor applications, kiln drying plants, agriculture, swimming pool installations, greenhouses, etc. 	<ul style="list-style-type: none"> IP66/67, UV protection, corrosion-resistant Integrated auxiliary switch or potentiometer <p>Optional for operating temperatures up to -40°C:</p> <ul style="list-style-type: none"> Heating with humidistat Heating with thermostat

Rotary actuators with and without emergency control function for outdoor applications

Product range	Types / performance classes	Applications	Specifications
	<ul style="list-style-type: none"> GM..G (40 Nm) SMQ..G (16 Nm, motor running time 7 s) GK..G (40 Nm) NF..G (10 Nm) SF..G (20 Nm) 	<p>Motorisation of air dampers with and without emergency control function up to 8 m²</p> <ul style="list-style-type: none"> Protection against moisture, humidity, high dust and contamination levels General outdoor applications, greenhouses, etc. Rooftop ventilation plant rooms 	<ul style="list-style-type: none"> IP66/NEMA4, UV protection Integrated auxiliary switch or potentiometer <p>Optional for operating temperatures up to -40°C:</p> <ul style="list-style-type: none"> Heating with humidistat Heating with thermostat

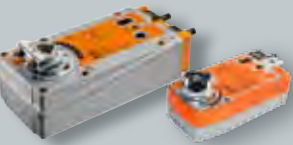
Platform for rotary actuators without emergency control function

Product range	Types / performance classes	Applications	Specifications
	<ul style="list-style-type: none"> TM24E.. (2 Nm) LM24E.. (5 Nm) NM24E.. (10 Nm) SM24E.. (20 Nm) 	<p>Motorisation of air dampers up to 4 m²</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"> TF (2 Nm) LF (4 Nm) NF (10 Nm)* SF (20 Nm)* EF (30 Nm)* 	<p>Motorisation of air dampers with emergency control function up to 6 m²</p>	<ul style="list-style-type: none"> Automatic closing function in the event of an electricity interruption in < 20 s Manual override


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"> NKQ (6 Nm, running time 4 s) GK (40 Nm, running time 150 s) <p>Linear actuators with emergency control function:</p> <ul style="list-style-type: none"> SHK (450 N, 100 mm stroke, running time 150 s) LHK (150 N, 100 mm stroke, running time 150 s) 	<p>Motorisation of air dampers with emergency control function up to 8 m²</p>	<ul style="list-style-type: none"> Integrated energy storage; actuator moves into predefined emergency setting position in < 35 s in the event of electricity interruption Bridging of voltage interruptions of up to 10 s Emergency setting position adjustable between 0...100%


* with 2 integrated auxiliary switches

Room and system solutions.


VAV-Compact controllers*

Product range	Types / performance classes	Applications	Specifications
	<ul style="list-style-type: none"> LMV-D3-MP (5 Nm) NMV-D3-MP (10 Nm) LHV-D3-MP (150 N) LMV-D3LON (5 Nm) NMV-D3LON (10 Nm) 	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"> Compact unit with sensor, controller and actuator On-site operating with ZTH-GEN Commissioning by means of PC-Tool, including trend function Integration in MP-Bus® or LonWorks® networks



VAV-Universal solutions*

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

Fan control





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

Room controller system solutions





Product range	Types / performance classes	Applications	Specifications
	Room controllers: <ul style="list-style-type: none"> With operating: CR24-B.. Without operating: CR24-A.. 	Individual room control in comfort zone for: <ul style="list-style-type: none"> VAV or air dampers Water or supplementary heaters Cooling ceilings or aftercoolers Combined systems 	<ul style="list-style-type: none"> Complete solution Energy-efficient (eu.bac-certified)
	Controllers for apartments: <ul style="list-style-type: none"> With operating: CRA24-B3 With concealed setpoint adjustment: CRA24-B3P 	Room controller for controlled apartment ventilation: <ul style="list-style-type: none"> VAV or air dampers Heating valve 	<ul style="list-style-type: none"> Application-specific override functions
	Controller for the 6-way valve: <ul style="list-style-type: none"> With operating: CRK24-B1 	Room temperature controllers for cooling/heating ceilings: <ul style="list-style-type: none"> In combination with the 6-way characterised control valve 	
	Positioner CRP24-B1: <ul style="list-style-type: none"> With operating With output 0...10 V or 2...10 V 	Setpoint specification for: <ul style="list-style-type: none"> VAV controller Damper actuators Valve actuators 	<ul style="list-style-type: none"> Output DC 0...10 V or DC 2...10 V switchable Tool plug on the unit
	Room controllers: <ul style="list-style-type: none"> With display: EXT-F2000PS-xx 	Room temperature controllers for fan coil air conditioning equipment: <ul style="list-style-type: none"> Control of fan and valves For 2-pipe and 4-pipe applications 	<ul style="list-style-type: none"> Large display Protection against improper operation and manipulation

* Deliveries exclusively to damper manufacturers (except for communications and control units).

Motorisation solutions for fire and smoke protection dampers*

Product range	Types / performance classes	Applications	Specifications
	Actuators: <ul style="list-style-type: none"> • BLF (6 Nm) • BF (18 Nm) • BFG (11 Nm) 	Motorisation of small and large fire and smoke protection dampers 	<ul style="list-style-type: none"> • Steel housing, form-fit • Manual override with integrated position stop • Auxiliary switches (1 mA to 6 A) • Halogen-free cables • Low current consumption • Thermoelectric tripping device (function-protected) with test pushbutton and Status LED • in conjunction with the damper, fulfills the requirements pursuant to EN 1366-2
	Communication and power supply unit: <ul style="list-style-type: none"> • BKN230-24 • BKN230-24LON • BKN230-24MP • BKN230-24-C-MP 	Control and monitoring (various protocols): <ul style="list-style-type: none"> • Standard (2-wire line) • LONWORKS® • Belimo MP-Bus® 	<ul style="list-style-type: none"> • Sockets for actuator • Status LED • Connection for additional smoke detector contact
	Communication and control units: <ul style="list-style-type: none"> • BKS24-1B • BKS24-9A 	Connection of 1 to 9 dampers: <ul style="list-style-type: none"> • Star-shaped wiring • 2-wire line • Interface with building management technology • Manual operation level 	<ul style="list-style-type: none"> • Status LEDs <ul style="list-style-type: none"> – Open – Closed – Fault • Plug-in connections
	Co-ordinated solutions: <ul style="list-style-type: none"> • UK24MOD or UK24BAC • BKN230-24-C-MP Suitable actuators: <ul style="list-style-type: none"> • BF24(-T)-ST • BLF24(-T)-ST 	Integration of motorised fire dampers in Modbus or BACnet networks	<ul style="list-style-type: none"> • Up to 8 dampers per controller • Known protocol • Watchdog function (damper closes when communication is interrupted) • Feedback


Motorisation solutions for smoke control dampers*

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


* Deliveries exclusively to damper manufacturers (except for communications and control units).

Water solutions.


Characterised control valves

Product range	Valves	Applications	Actuators	
	Internal thread: <ul style="list-style-type: none"> R2..-S.. (2-way) R3..-S.. (3-way) External thread: <ul style="list-style-type: none"> R4.. (2-way) R5.. (3-way) 	Cold, hot, domestic water: <ul style="list-style-type: none"> Nominal diameters DN 10...50 Allowed pressure [kPa]: 1600 	<ul style="list-style-type: none"> Rotary actuators: TR, LR, NR, SR series With emergency control function: TRF, LRF, NRF(D)..A, SRF..A series Fast runners: TRC, LRC, NRC, SRC series Very fast running actuators: LRQ, NRQ, SRQ series KR.. to DN 20 	
	Flange: <ul style="list-style-type: none"> R6..R.. (2-way/PN6) R7..R.. (3-way/PN6/DN 15...50) 	Cold, hot, domestic water: <ul style="list-style-type: none"> Nominal diameters DN 15...50 Allowed pressure [kPa]: 600 	<ul style="list-style-type: none"> Allowed pressure [kPa]: 1600 	DN65...150 <ul style="list-style-type: none"> Rotary actuators: SR-5, GR-5 series With emergency control function: SRF-5, GRK-5 series Fast runners: SRC-5, GRC-5 series
	External thread: <ul style="list-style-type: none"> R4..D (2-way) 	District heating, domestic and drinking water: <ul style="list-style-type: none"> Nominal diameters DN 10...20 Allowed pressure [kPa]: 2760 		
	Internal thread: <ul style="list-style-type: none"> R30..-...-B2 (6-way) 		Modulating control of thermal heated and chilled ceilings: <ul style="list-style-type: none"> Nominal diameters DN 15/20 Allowed pressure [kPa]: 1000 	<ul style="list-style-type: none"> Rotary actuators: LR24A-SR, LR24A-MP, HR24-SR


Pressure-independent characterised control valves

Product range	Valves	Applications	Actuators
	Internal thread: <ul style="list-style-type: none"> R2..P (2-way) 	Balance, control and shut-off with a single valve: <ul style="list-style-type: none"> Flow \dot{V} [l/s]: 0.09...5.05 Nominal diameters DN 15...50 Allowed pressure [kPa]: 1600 	<ul style="list-style-type: none"> Rotary actuators: LR, NR, SR series With emergency control function: TRF, LRF, NRF(D)..A, SRF..A series Fast runners: TRC, LRC series Very fast running actuators: LRQ, NRQ, SRQ series
	Flange (EPIM): <ul style="list-style-type: none"> P6..W..E-MP (2-way) 	Balance, measurement, control and shut-off with a single valve: <ul style="list-style-type: none"> Flow \dot{V} [l/s]: 8...45 Nominal diameters DN 65...150 Allowed pressure [kPa]: 1600 	<ul style="list-style-type: none"> Integrated actuator

Shut-off and change-over valves

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

Rotary actuators for outdoor applications

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

Water solutions.

Globe valves

Product range



Valves

External thread:

- H4..B (2-way)
- H5..B (3-way)

Flange:

- H6..N/H7..N (2-way and 3-way/PN16)
- H6..S(P) (2-way/PN16) for hot water and steam
- H6..W..S7/H7..W..S7 (2-way and 3-way/PN16), DN 200/250

Additional flange versions:

- H..R (2-way and 3-way/PN6)
- H..X.. (2-way and 3-way/PN25)
- H..Y.. (3-way/PN40)

Applications

Cold, hot, domestic water:

- Nominal diameters DN 15...50
- Allowed pressure [kPa]: 1600

Cold and heating water:

- Nominal diameters DN 15...250
- Allowed pressure [kPa]: 1600

- Nominal diameters DN 15...100

- Allowed pressure [kPa]: 600
- Allowed pressure [kPa]: 2500
- Allowed pressure [kPa]: 4000

Actuators

- Globe valve actuators: NV (20 mm), AV (40 mm)
- With emergency control function: NVF (20 mm), NVFT as TÜV-certified version (20 mm)
- Fast runners: NVY, NVFY (20 mm), AVY (40 mm)
- Long stroke actuators: GV (65 mm)

All-inclusive.



5-year warranty



On site around the globe



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Tested quality



Short delivery times



Comprehensive support

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