03

VALVES & ACTUATORS

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iSMA CONTROLLI

Wide selection of control valves for room, zone, HVAC, and industrial processes with a perfectly matched range of analog, network, and smart actuators.

Ensure comfort and guarantee efficiency at every stage of the building control process. Reduce energy, installation and maintenance costs with a wide range of valves and actuators. Product applications range from zone and FCU control through air handling units and HVAC to industrial processes. iSMA CONTROLLI with over 80 years of experience in manufacturing Control Valves and Actuators offers a reliable and trusted solution for every building.

iSMA CONTROLLI

5 YEARS WARRANTY by iSMA CONTROLLI

BALL VALVES

For use in heating, ventilation, heating systems, and air conditioning systems, pneumatic systems and irrigation. Thanks to the characterised plug, the modulating models fully fit the equal percentage characteristic. Available in 2 and 3 way threaded connections, both provided with on/off actuator MVS210 and MVS410. Brass body (EN-12165 CW617N), Seat PTFE and Chrome plated Brass ball (EN-12164 CW617N). Sealing leakage: Tight close-off. Connections: Female threaded (except VSD3 and VSD4)

Part Number	Description			
VSS2	2-way	On/Off	DN15	20 Kvs
VSS3	2-way	On/Off	DN20	45 Kvs
VSS4	2-way	On/Off	DN25	60 Kvs
VSS5	2-way	On/Off	DN32	100 Kvs
VSS6	2-way	On/Off	DN40	120 Kvs
VSS8	2-way	On/Off	DN50	220 Kvs
VSC2	2-way	Modulating	DN15	4 Kvs
VSC3	2-way	Modulating	DN20	6.3 Kvs
VSC4	2-way	Modulating	DN25	10 Kvs
VSC5	2-way	Modulating	DN32	16 Kvs
VSC6	2-way	Modulating	DN40	25 Kvs
VSC8	2-way	Modulating	DN50	40 Kvs
VSD3 (FFM)	3-way diverting	On/Off	DN20	9.6 Kvs
VSD4 (FFM)	3-way diverting	On/Off	DN25	11.3 Kvs
VSD5	3-way diverting	On/Off	DN32	19.2 Kvs
VSD6	3-way diverting	On/Off	DN40	27.7 Kvs
VSD8	3-way diverting	On/Off	DN50	57 Kvs
VDC2	3-way mixing	Modulating	DN15	4 Kvs
VDC3	3-way mixing	Modulating	DN20	6.3 Kvs
VDC4	3-way mixing	Modulating	DN25	10 Kvs
VDC5	3-way mixing	Modulating	DN32	16 Kvs
VDC6	3-way mixing	Modulating	DN40	25 Kvs
VDC8	3-way mixing	Modulating	DN50	40 Kvs

iSMA CONTROLLI

ACTUATORS

Part Number	Description			
MVS210	Rotary actuator	230V On/Off	10N	40 Sec
MVS410	Rotary actuator	24V On/Off	10N	40 Sec
MVS216	Rotary actuator	230V On/Off	16N	60 Sec
MVS416	Rotary actuator	24V On/Off	16N	60 Sec
MVS516	Rotary actuator	24V, Modulating, 0-10V	6N	60 Sec
MVSHT	Spacer for MVS_16 actuators			

2FGB & 3FGB FLANGED VALVES

The 2FGB.L series valves are used for the control of fluids belonging to the group, as per art. 13 of Directive 2014/68/EU (PED), in air conditioning systems, thermal ventilation of fluids and civil and industrial heating systems and thermal machines for industrial processes. They can not be used as safety valves.

The 2-3FGB.L series is designed with PTFE gaskets to offer a perfect seal both on the direct route and on the corner road.

These valves are designed to be motorized by MVH and MVE actuators.

Part Number	Description		
2 way globe valves, flanged, cast iron body			
2FGB65	DN65	63 Kvs	25 mm Stroke
2FGB80	DN80	100 Kvs	45 mm Stroke
2FGB100	DN100	130 Kvs	45 mm Stroke
2FGB125	DN125	200 Kvs	45 mm Stroke
2FGB150	DN150	300 Kvs	45 mm Stroke
2FGA200B	DN200	500 Kvs	45 mm Stroke
3 way globe valves, flanged, DN65 - DN200, PN16, cast iron body			
3FGB65	DN65	63 Kvs	25 mm Stroke
3FGB80	DN80	100 Kvs	45 mm Stroke
3FGB100	DN100	130 Kvs	45 mm Stroke
3FGB125	DN125	200 Kvs	45 mm Stroke
3FGB150	DN150	300 Kvs	45 mm Stroke

Find the perfect fit!
MANUFACTURER COMPATIBILITY GUIDES
Actuator and linkage kit guide for common valve brands
SCAN HERE
SCAN HERE
iSMA CONTROLLI
REGIN

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2TBB & 3TBB GLOBE VALVES

The 2TBB and 3-way 3TBB two-way valves can be used for the control or interception of fluids in air conditioning, heating and heating systems, civil and industrial, in machines for the heat treatment of products and in systems for domestic hot water. The 3-way valves must be used exclusively as mixers. Never use the angled pathway for adjustment.

These valves are designed to be motorised by MVE and MVH actuators.

Part Number	Description		
2 way globe valves, Internal threaded, DN15 - DN50, PN16, bronze			
2TBB15	DN15	2.5 Kvs	9.5mm stroke
2TBB20	DN20	5 Kvs	9.5mm stroke
2TBB25	DN25	10 Kvs	15.9mm stroke
2TBB32	DN32	16 Kvs	15.9mm stroke
2TBB40	DN40	25 Kvs	15.9mm stroke
2TBB50	DN50	38 Kvs	15.9mm stroke
3 way globe valves, Internal threaded, DN15 - DN50, PN16, bronze			
3TBB15	DN15	2.5 Kvs	9.5mm stroke
3TBB20	DN15	10 Kvs	15.9mm stroke
3TBB25	DN15	10 Kvs	15.9mm stroke
3TBB32	DN15	16 Kvs	15.9mm stroke
3TBB40	DN15	25 Kvs	15.9mm stroke
3TBB50	DN15	38 Kvs	15.9mm stroke

2TBB.T COMPACT GLOBE VALVES

The 2TBB.T two-way valves 3TBB.T can be used for the control or interception of fluids in air conditioning, heating and heating systems, civil and industrial, in machines for the heat treatment of products and in water systems. hot sanitary. The 3-way valves must be used exclusively as mixers. Never use the angled corner for adjustment.

Can be driven with MVC actuators. See page 77.

Part Number	Description				
2TBB15T	2 Port	12mm Stroke	PN16	DN15	Kvs 2.5*
2TBB20T	2 Port	12mm Stroke	PN16	DN20	Kvs 4*
2TBB25T	2 Port	12mm Stroke	PN16	DN25	Kvs 8*
2TBB32T	2 Port	12mm Stroke	PN16	DN25	Kvs 12*
2TBB40T	2 Port	12mm Stroke	PN16	DN32	Kvs 21*
2TBB50T	2 Port	12mm Stroke	PN16	DN40	Kvs 33*
3TBB15T	3 Port	12mm Stroke	PN16	DN15	Kvs 2*
3TBB20T	3 Port	12mm Stroke	PN16	DN20	Kvs 5*
3TBB25T	3 Port	12mm Stroke	PN16	DN25	Kvs 10*
3TBB32T	3 Port	12mm Stroke	PN16	DN32	Kvs 16*
3TBB40T	3 Port	12mm Stroke	PN16	DN40	Kvs 25*
3TBB50T	3 Port	12mm Stroke	PN16	DN40	Kvs 38*

iSMA CONTROLLI

Multiprotocol Network Actuator

Modbus

BACnet

MVC-2-RS

Solution with energy and temperature control functions, BACnet and Modbus protocols

Overview

Compact Solution
Compact actuator designed to control hot/chilled water flow rate in two/four pipes terminal units, zone, small reheating and dehumidification coils.

Communication Matters
It can be controlled by a Modbus RTU or BACnet MS/TP device via a RS485 network as well as by a proportional (modulating) control signal.

Built-in USB port
it is equipped with a USB port for local configuration and diagnostics.

Energy and temperature control
When it is used in combination with a PICV valve and it is equipped with 1 or 2 temperature sensors, it can deliver the energy calculation and power control function. Embedded control loop for supply/return and deltaT are available.

Fail safe
Available models with electronic fail safe with end position selectable via USB, Modbus and BACnet MS/TP. MVC503-2-RS without fail safe, MVC503R-2-RS with fail safe.

iSMA CONTROLLI

Make to most from your PICVs and change them into Energy Valves!

Install the Multiprotocol Network actuator MVC-2-RS with a couple of temperature sensors and hook it to your BACnet MS/TP or Modbus Network. As simple as that!

MVC-2-RS will control the actual thermal power delivered to the coil as well as feed your BMS with crucial insight about the real energy used by your system.

You are not using iSMA CONTROLLI PICV LIBRA yet? No problem MVC-2-RS can be configured with the flow curve of your PICV and change it into an Energy Valve!

MVC-2-RS in combination with our multifunction valve set is a great opportunity to simplify installation and commissioning phase and at the same time improve the energy performance of your building.

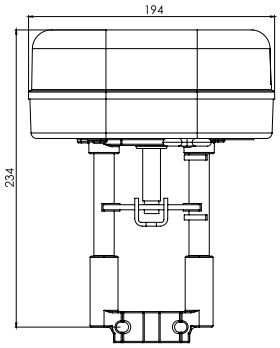
Technical characteristics

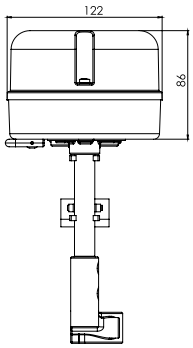
- Power supply: 24 V AC ± 20% 50-60 Hz, 22-30 V DC
- Running time: 5 s/mm (default) or 3 s/mm
- Force: 300 N
- Protection degree: IP54
- Feedback signal: Modbus RTU / BACnet MS/TP
- Charging time for supercapacitors: ~ 45 s
- Speed in emergency positioning: 3 s/mm
- Manual override: with 3 mm hex key
- Characteristic: Linear or EQP
- Stroke: 2-12 mm

iSMACONTROLLI
Smart Balancing
Control Valves
Modbus

iSMA CONTROLLI
5 YEARS
WARRANTY
by iSMA CONTROLLI

iSMA CONTROLLI





MVE ACTUATORS

MVE is a very flexible electromechanical actuator for the control of two and three-way globe valves usable in heating and air conditioning systems, air handling units; district heating plants; industrial control systems.

The actuator can be controlled either by a proportional (modulating) or by a floating signal. Installing and connecting the actuator is very simple. It is possible to mount it directly on all types of CONTROLLI flanged valves, while for the CONTROLLI threaded valves and for the valves of other manufacturers, connection kits are available.

The actuator has a very high resolution (500 steps over the entire stroke range) for precise control of the fluid temperature and is able to self-calibrate on different strokes without the need for user intervention (this function is selectable through the DIP switches present). MVE is equipped with diagnostic functions which, in the event of faults, indicate the specific problem by means of 2 LEDs (RED and GREEN) located on the control board.

Part Number	Description			
MVE504S	Modulating/Float	24V	60mm Stroke	400N
MVE504S-65	Modulating/Float IP65	24V	60mm Stroke	400N
MVE504SR	Modulating/Float Spring return	24V	60mm Stroke	400N
MVE504SR-65	Modulating/Float Spring return IP65	24V	60mm Stroke	400N
MVE506	Floating & Proportional	24V	60mm Stroke	600N
MVE510	Floating & Proportional	24V	60mm Stroke	1000N
MVE515	Modulating/Float	24V	60mm Stroke	1500N
MVE515-IP65	Modulating/Float IP65	24V	60mm Stroke	1500N
MVE515SR	Modulating/Float Spring return	24V	60mm Stroke	1500N
MVE515-IP65-SR	Modulating/Float Spring return IP65	24V	60mm Stroke	1500N
MVE522	Floating & Proportional	24V	60mm Stroke	2200N
MVE204S	Modulating/Float	230V	60mm Stroke	400N
MVE204S-65	Modulating/Float IP65	230V	60mm Stroke	400N
MVE204SR	Modulating/Float Spring return	230V	60mm Stroke	400N
MVE204SR-65	Modulating/Float Spring return IP65	230V	60mm Stroke	400N
MVE206	Floating & Proportional	230V	60mm Stroke	600N
MVE210	Floating & Proportional	230V	60mm Stroke	1000N
MVE215	Modulating/Float	230V	60mm Stroke	1500N
MVE215-IP65	Modulating/Float IP65	230V	60mm Stroke	1500N
MVE215-SR	Modulating/Float Spring return	230V	60mm Stroke	1500N
MVE215-IP65-SR	Modulating/Float Spring return IP65	230V	60mm Stroke	1500N

Ordering Information

MVE is the model
2 or 5 is the power supply...24v is 5, 230v is 2
04, 06, 10 etc is the force... 400Nm, 600Nm, etc
S is short yoke
R is with failsafe
IP65 is the part number for outdoor rating

MVE NEW MULTIPROTOCOL ACTUATORS

Multiprotocol Network actuators for PICV and Globe Valves with energy and temperature control functions, BACnet and Modbus protocols. Also available with emergency fail safe function (MVE5xxxR-2-RS models).

MVE2XXX-2-RS

MVE2xxx-2-RS is a multiprotocol network actuator dedicated for PICVs, allowing direct temperature monitoring and control of supported medium. Together with Libra PICV the MVExxxx-2-RS creates a unique energy calculation solution for heating or cooling coils in air handling units and district heating plants.

Features

- Multiprotocol network actuator for PICVs (Press Independent Control Valves)
- Direct temperature monitoring and control
- Energy calculation for heating/cooling coils (with Libra PICV)
- RS-485 connectivity with Modbus RTU and BACnet MS/TP for building management systems
- Works with standard Globe Valves (without energy calculation)
- Two temperature inputs for NTC 10K temperature sensors:
- Temperature monitoring
- DeltaT and Temperature control/limit
- Energy calculation (with Libra PICV or custom PICV with manual flow characteristic setting)
- Independent control and limit of temperature, optimizing power consumption
- Flow rate calculation when installed on PICV valves with both sensors connected
- Controllable with standard analogue signals
- Quick and easy installation with U-Bolt connection and self-diagnosis:
- Mounts on iSMA CONTROLLI flanged valves
- Connection kits available for other valves
- High resolution (0.1%) for precise temperature control
- Self-calibrates on different strokes
- Compact models available (MVE2xxxS-2-RS)
- USB port for local configuration and diagnostics (note: when USB cable is connected, the actuator cannot be controlled (BLDC motor is disabled).

Model	Force (N)	Power Supply	Description
MVE204-2-RS	400	230V AC	Long yoke
MVE206-2-RS	600	230V AC	Long yoke
MVE210-2-RS	1000	230V AC	Long yoke
MVE215-2-RS	1500	230V AC	Long yoke
MVE222-2-RS	2200	230V AC	Long yoke
MVE204S-2-RS	400	230V AC	Short yoke
MVE206S-2-RS	600	230V AC	Short yoke
MVE210S-2-RS	1000	230V AC	Short yoke
MVE215S-2-RS	1500	230V AC	Short yoke
MVE222S-2-RS	2200	230V AC	Short yoke

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MVE5XXX-2-RS

Multiprotocol Network actuator for PICV and Globe Valves. Energy and temperature control functions, BACnet and Modbus protocols.

Features

- Multiprotocol network actuator for PICVs (Press Independent Control Valves)
- Direct temperature monitoring and control
- Energy calculation for heating/cooling coils (with Libra PICV)
- RS-485 connectivity with Modbus RTU and BACnet MS/TP for building management systems
- Works with standard Globe Valves (without energy calculation)
- Two temperature inputs for NTC 10K temperature sensors:
- Temperature monitoring
- DeltaT and Temperature control/limit
- Energy calculation (with Libra PICV or custom PICV with manual flow characteristic setting)
- Independent control and limit of temperature, optimizing power consumption
- Flow rate calculation when installed on PICV valves with both sensors connected
- Controllable with standard analogue signals
- Quick and easy installation with U-Bolt connection and self-diagnosis
- Mounts on iSMA CONTROLLI flanged valves (connection kits available for other valves)
- High resolution (0.1%) for precise temperature control
- Self-calibrates on different strokes
- Compact models available (MVE5xxxS-2-RS)
- USB port for local configuration and diagnostics (disables control)

Model	Force (N)	Power Supply	Description
MVE504-2-RS	400	24 V AC/DC	Long yoke
MVE506-2-RS	600	24 V AC/DC	Long yoke
MVE510-2-RS	1000	24 V AC/DC	Long yoke
MVE515-2-RS	1500	24 V AC/DC	Long yoke
MVE522-2-RS	2200	24 V AC/DC	Long yoke
MVE504S-2-RS	400	24 V AC/DC	Short yoke
MVE506S-2-RS	600	24 V AC/DC	Short yoke
MVE510S-2-RS	1000	24 V AC/DC	Short yoke
MVE515S-2-RS	1500	24 V AC/DC	Short yoke
MVE522S-2-RS	2200	24 V AC/DC	Short yoke

VLX6(P) & VLX8(P)
Flow - 10 000 – 12 500 l/h
Force - 600N - 2200N

IBC stock over 2500 products ready for immediate delivery

MVE5XXXR-2-RS

Multiprotocol Network actuator for PICV and Globe Valves with emergency fail-safe, energy and temperature control functions, BACnet and Modbus protocols. Summary of features:

Features

- MMultiprotocol network actuator for PICVs (Press Independent Control Valves)
- Direct temperature monitoring and control
- Energy calculation for heating/cooling coils (with Libra PICV)
- RS-485 connectivity with Modbus RTU and BACnet MS/TP for building management systems
- Works with standard Globe Valves (without energy calculation)
- Electronic emergency return function with ultracapacitors (10 year life)
- Pre-charge phase (130s) on first start
- No LED signal for first 20-30s, then red LED indicates charging
- Two temperature inputs for NTC 10K temperature sensors:
- Temperature monitoring
- DeltaT and Temperature control/limit
- Energy calculation (with Libra PICV or custom PICV with manual flow characteristic setting)
- Independent control and limit of temperature, optimizing power consumption
- Flow rate calculation when installed on PICV valves with both sensors connected
- Controllable with standard analogue signals
- Quick and easy installation with U-Bolt connection and self-diagnosis
- Mounts on iSMA CONTROLLI flanged valves (connection kits available for other valves)
- High resolution (0.1%) for precise temperature control
- Self-calibrates on different strokes
- Compact models available (MVE5xxxS-2-RS)
- USB port for local configuration and diagnostics (disables control)

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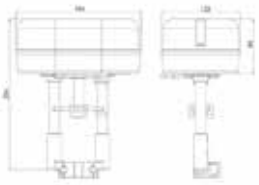
Model	Force (N)	Power Supply	Description
MVE504R-2-RS	400	24 V AC/DC	Long yoke
MVE506R-2-RS	600	24 V AC/DC	Long yoke
MVE510R-2-RS	1000	24 V AC/DC	Long yoke
MVE515R-2-RS	1500	24 V AC/DC	Long yoke
MVE504SR-2-RS	400	24 V AC/DC	Short yoke
MVE506SR-2-RS	600	24 V AC/DC	Short yoke
MVE510SR-2-RS	1000	24 V AC/DC	Short yoke
MVE515SR-2-RS	1500	24 V AC/DC	Short yoke



MVC COMPACT ACTUATOR FOR SMALL GLOBE VALVES AND PICV

Designed to motorise globe valves, such as 2-TBB.T, PICVs used on hot/chilled water systems, e.g., AHUs, solar plants, heating/cooling and dehumidification coils, 2-pipe or 4-pipe FCUs and more.

Part Number	Description	
MVC203	230Vac On/Off/Float	16mm Stroke, 80Secs, 300N
MVC403	24Vac On/Off/Float	16mm Stroke, 80Secs, 300N
MVC503	24Vac Proportional	16mm Stroke, 80Secs, 300N
MVC503R	24 Vac/dc Proportional Spring Return	12mm Stroke, 36 Secs, 300N
MVC503R-MB	24 Vac/dc Proportional Spring Return Modbus	12mm Stroke, 36 Secs, 300N

Also available: MVC-2-RS with energy and temperature control functions, BACnet and Modbus protocols. See page 71 and 72 for more.

iSMA CONTROLLI

PRESSURE INDEPENDENT CONTROL VALVES

LIBRA pressure independent control valves are suitable for a wide range of hydronic applications in the building services industry. Fan-coil units and chilled beams are probably the most familiar applications of pressure independent control valves with the move from 4-ports (or 3-ports) to 2-ports valves driven primarily by the need to reduce excessive energy consumption of pumps and thermal losses through pipework.

Pressure-independent control valves are exactly what the name suggests. They maintain a constant pre-set differential pressure across a control valve such that control action of the valve is not affected by inlet-pressure instability.

These valves can be motorized by a wide range of actuators including MCA, MVC, MVE and MVT types

Part Number		Description		
Threaded connections without P/T plugs				
VLX1	DN15	375 L/H Ext screwed	2 port, PN16	4mm stroke
VLX2	DN15	3/4" M connection 800 L/H Ext screwed	2 port, PN16	4mm stroke
VLX3	DN20	1" M connection 1000 L/H Ext screwed	2 port, PN16	4mm stroke
VLX4	DN25	1-1/4" M connection 2000 L/H Ext screwed	2 port, PN16	4mm stroke
VLX5	DN32	1-½" M connection 4000 L/H Ext screwed	2 port, PN16	4mm stroke
Threaded connections with P/T plugs				
VLX1P	DN15	375 L/H Ext screwed	2 port, PN16	4mm stroke
VLX2P	DN15	3/4" M connection 800 L/H Ext screwed	2 port, PN16	4mm stroke
VLX3P	DN20	1" M connection 1000 L/H Ext screwed	2 port, PN16	4mm stroke
VLX4P	DN25	1-1/4" M connection 2000 L/H Ext screwed	2 port, PN16	
VLX5P	DN32	1-½" M connection 4000 L/H Ext screwed	2 port, PN16	4mm stroke
VLX8P	DN50	2" F connection, 12500 L/H. Int screwed	2 port, PN16	15mm stroke

iSMA CONTROLLI FCU VALVE SET DESIGNED TO CONNECT FAN COIL UNITS DIRECTLY TO THE BUILDING HYDRAULIC NETWORK

Benefits

- Installation: pre assembled and 100% tested reduce installation time and ensure trouble-free commissioning.
- Service: enable fast servicing, maintenance and troubleshooting: easy, flushing, draining, bypass and cleaning

No specific tools are needed for installation. A built-in bypass section includes a full port isolating valve to enable coil and circuit flushing and cleaning to be carried out without a need to switch off the attached fan coil unit. Thermal insulation can be added too.

Part Number	Description
BP15-x-xxxx	FCU valve set PN16 1/2"F for VLX1, VLX1P, VLX2 and VLX2P
BP20-x-xxxx	FCU valve set PN16 3/4"F for VLX3, VLX3P, VLX4 and VLX4P
BP25-x-xxxx	FCU valve set PN16 1"F for VLX4, VLX4P, VLX5 and VLX5P

iSMA CONTROLLI ZONE VALVES FOR FCUS
VPX - PN16 COMPOSITE VALVES FOR TERMINAL UNITS AND ZONE CONTROL

iSMA CONTROLLI

PIUMA High Performance Composite Zone Valves for FCUs are designed for the control of chilled and warm water in heating and air-conditioning plants; they can be motorized with on-off electro-thermal actuators MVP or modulating MVX52B depending on the requirements. MVP actuator offer IP44 and auxiliary microswitch option.

Benefits

- 0% lead, therefore fully compliant with ROHS and REACH
- No rust
- High thermic insulation
- No condensation
- High resistance to dirty water
- Light weight

Part Number	Description
VPS	Two-way valve DN 1/2" - 3/4"; Kvs 1,6 - 2,5 m3/h
VPM	Three-way valve DN 1/2" - 3/4"; Kvs 1,6 - 2,5 m3/h
VPT	Three-way valve with built-in by-pass DN 1/2" - 3/4"; Kvs 1,6 - 2,5 m3/h

MICRA® COMPACT ZONE VALVES FOR FCU - PN16 VALVES FOR TERMINAL UNITS AND ZONE CONTROL

MICRA® is a range of motorised valves for fan coil units. Range consists of PN16 brass (CW617N) valve bodies with compact dimensions: 2-way, 3-way, 3-way 4-ports with sizes 1/2", 3/4" and 1" (2-way and 3-way only) and Kvs from 0.25 to 6. Valves are 100% tight close-off.

All valve bodies are available with either flat end threaded connections or conic (Conex):

• 4-port versions (3-way with bypass) are available with different port-to-port distances.

• Valves are available with strokes: 2.5 mm (V.X series) and 5.5 mm (V.XT).

MICRA® valves are employed for the control of chilled and heated water in heating and air-conditioning plants; they are motorized by MVX and MCA electro-thermal actuators (MCA230L, MCA24L, MVX22R, MVX42R, MVX52). MICRA® valves extremely reduced dimensions enable an easy mounting on terminal unit coils.

Part Number	Description
VSX..(P)	Two-way valve DN 1/2" - 1"; Kvs 0,25 - 6 m3/h
VMX..(P)	Three-way valve DN 1/2" - 1"; Kvs 0,25 - 6 m3/h (4 angle way)
VTX..(P)	Three-way valve with built-in by-pass DN 1/2" - 3/4"; Kvs 0,25 - 6 m3/h (4 angle way)

N.B.: suffix P means flat tight.

Speak with our team about any large projects

Order before 2pm for same day dispatch

iSMA CONTROLLI

EBV SERIES - SMART BALANCING CONTROL VALVES PICV

The EBV system is able to measure the pressure difference between upstream and downstream of the valve and to maintain the correct flow despite pressure variations thus ensuring that the flow rate changes only when the energy demand changes or the ΔT is outside the specifications.

EBV systems integrates the following functionalities in a unique smart device:

- Pressure independent Control function with ΔT optimiser.
- Energy usage monitoring with Modbus connectivity for a user-friendly data analysis.
- Thermal power control function with ΔT optimisation.
- Diagnostic/Monitoring available via USB or Modbus-RTU (RS485).

EBV is therefore able to control the coils heat transfer and to guarantee an optimal return temperatures for all operating conditions with a following high level of efficiency in heating and cooling. Thanks to stable temperature control, you can achieve energy savings of up to 25% – without sacrificing comfort.

EBV can be used as an intelligent pressure independent balancing and control valve selecting models without supply and return temperature sensors or it can be used as full thermal power control valve selecting models with supply and return temperature sensors.

Furthermore, the Modbus-RTU based Energy monitoring capability as well as the diagnostic and condition monitoring function facilitate work, save time, as well as ensure comfort and increase energy efficiency in buildings.

Part Number	DN	Flow [m^3/h] (Qmin)	Flow [m^3/h] (Qmax)	PN	Max ΔP [kPa]	Power Supply
EBV65	65	12	37	16	35-800	24 V AC/DC, 230 V AC
EBV80	80	25	57	16	35-800	24 V AC/DC, 230 V AC
EBV100	100	45	77	16	35-800	24 V AC/DC, 230 V AC
EBV125	125	61	118	16	35-800	24 V AC/DC, 230 V AC
EBV150	150	80	177	16	35-800	24 V AC/DC, 230 V AC

MCA ACTUATORS

Part Number	Description
MCA230L	230V AC, 140 N, 4mm Stroke
MCA230LM	230V AC, 140 N, 4mm Stroke, Auxiliary Microswitch
MCA24L	24 VAC/DC, 140 N, 4mm Stroke
MCA24LM	24 VAC/DC, 140 N, 4mm Stroke, Auxiliary Microswitch

MVT ACTUATORS

Part Number	Description		
MVT203	3-point - ON/ OFF	230 V AC	16 mm Stroke
MVT403	3-point - ON/ OFF	24 V AC	16 mm Stroke
MVT503	Proportional	24 V AC	16 mm Stroke
MVT203S	3-point - ON/ OFF	230 V AC	9 mm Stroke
MVT403S	3-point - ON/ OFF	24 V AC	9 mm Stroke
MVT503S	Proportional	24 V AC	9 mm Stroke

MVX52B ELECTROTHERMAL ACTUATOR FOR CONTROL VALVES, MICRA® AND COMPOSITE ZONE VALVES

MVX52B electrothermal actuators can be used to motorize LIBRA pressure independent control valves or Micra valves in case normally open function is required (Micra_DBL199en) or VP composite valve series (VPx_DBL612en).

Part Number	Power Supply	Description
MVX52B	24 V AC	Modulating 0-10 V DC

iSMA CONTROLLI

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SAUTER is an experienced manufacturer and supplier of energy-efficient solutions for state-of-the-art building automation. Intelligent control, measuring and regulating technology reflects SAUTER core expertise and success from more than 100 years of research, development and production. SAUTER products fulfil the highest demands from the automation level to the field level, and ensure optimum conditions in all living environments, as individual components and within systems.

SUATER's current range of valves and actuators, with their in-built intelligence, covers all the requirements for reliable and long-lasting control units with just a few basic types. This makes the selection process logical and easy. Expect the highest control quality results when the range of valves and actuators encompass the same high level of technology and operational reliability as all other SAUTER controls products.

		Cast brass PN16		Cast brass PN40	Grey cast iron PN6				Grey cast iron PN10/16			
Valve/ball valve model series		**VUN** **BUN** DN15...50		**VKR/VKRA** **BKR/BKRA** DN15...50	**VUD** **BUD** DN15...50		**VQD** **BQD** DN65...100		**VUE** **BUE** DN15...50		**VQE** **BQE** DN65...150	
Valve actuator model series		**AVM 105** **AVM 115** **AVF 124** **AVF 125**	**AVM 321**	**AKM 105** **AKM 115** **AKF 112** **AKF 113**	**AVM 105** **AVM 115** **AVF 124** **AVF 125**	**AVM 321**	**AVM 322**	**AVM 234** **AVF 234**	**AVM 105** **AVM 115** **AVF 124** **AVM 125**	**AVM 321**	**AVM 322**	**AVM 234** **AVF 234**
Medium	Temp. range											
Water with anti-freeze (glycol 20...55%)	-30...-21 °C											
	-20...-16 °C											
	-15...-11 °C	H1 K1/K2	H1 K1/K2									
	-10...2 °C	K1/K2	K1/K2	H10	K1/K2	K1/K2	K1/K2	K1/K2	K1/K2	K1/K2	K1/K2	K1/K2
Cold water	3...20 °C	●	●	●	●	●	●	●	●	●	●	●
Hot water	21...100 °C	●	●	●	●	●	●	●	●	●	●	●
	101...130 °C	H1	H1	H11	H1	H1	H5	●	H1	H1	H5	●
Hot water	131...150 °C	H2	H2		H2	H2	H5	H3	H2	H2	H5	H3
	151...180 °C											
	181...200 °C											
	201...210 °C											
	211...220 °C											
	221...230 °C											
Water vapour	100...115 °C											
	116...130 °C											
	131...180 °C											
	181...200 °C											
	201...220 °C											
	221...240 °C											

[1] PTFE stuffing box with grease containing silicone can only be used up to DN 125

● Standard model

Accessories	Type	Description
K1	0378284 100	Stuffing box heater 230 V AC, 15 W, for media below 0 °C
K2	0378284 102	Stuffing box heater 24 V AC, 15 W, for media below 0 °C
H1	0372249 001	Adapter required when media temperature >100 °C up to max. 130 °C (AVM 1**, AVM 321)
H2	0372249 002	Adapter required when media temperature >130 °C up to max. 150 °C (AVM 1**, AVM 321)
H3	0372336 180	Extension for media temperature up to 180° (AV* 234, AVN 224)
H4	0372336 240	Extension for media temperature up to 240° (AV* 234, AVN 224)
H5	0500240 001	Extension for media temperature up to 180° (AVM 322)
H6	0500240 002	Extension for media temperature up to 240° (AVM 322)
H10	0510240 011	Adapter required when media temperature <3 °C
H11	0510420 001	Adapter required when media temperature >100 °C

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AREA OF USE FOR SAUTER CONTROL VALVES IN COMBINATION WITH ELECTRIC ACTUATORS

Ductile cast iron PN16				Ductile cast iron PN25						Cast steel PN40					
VUG		**BUG**		**VUG**		**BUG**		**VUP**		**VUS**			**BUS**		
DN15…50	DN65…80	DN15…50	DN65…80	DN15…50	DN65…150	DN15…50	DN65…150	DN40	DN50…150	DN15…50	DN65…100	DN125…150	DN15…50	DN65…100	DN125…150
AVM 322	**AVM 234** **AVF 234** **AVN 224**	**AVM 322**	**AVM 234** **AVF 234** **AVN 224**	**AVM 322**	**AVM 234** **AVF 234** **AVN 224**	**AVM 322**	**AVM 234** **AVF 234** **AVN 224**	**AVM 322**	**AVM 234** **AVF 234** **AVN 224**	**AVM 322**	**AVM 234** **AVF 234**		**AVM 322**	**AVM 234** **AVF 234**	
										FB	FB	FB	FB	FB	FB
S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	K1/K2	K1/K2	FB	FB	FB	FB	FB	FB
S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	K1/K2	K1/K2	FB	FB	FB	FB	FB	FB
S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	S[1] K1/K2	K1/K2	K1/K2	●	●	●	●	●	●
S[1]	S[1]	S[1]	S[1]	S[1]	S[1]	S[1]	S[1]	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
H5	H3	H5	H3	H5	H3	H5	H3	H5	H3	H5	H3	H3	H5	H3	H3
H5	H3	H5	H3	H5	H3	H5	H3	H5	H3	H5	H3	H3	H5	H3	H3
				H6	H4	H6	H4	H6	H4	H6	H4	H4	H6	H4	H4
										H6	H4	H4	H6	H4	H4
										H6	H4	H4	H6	H4	H4
										H6/G1	H4/G2	H4/G3	H6/G1	H4/G2	H4/G3
	●				●			●	●	●	●	●			
	●				●			●	●	●	●	●			
	H3				H3			H5	H3	H5	H3	H3			
					H4			H6	H4	H6	H4	H4			
										H6	H4	H4			
										H6/G1	H4/G2	H4/G3			

	Stuffing box variants	Type	Description
	G1	0378373 001	Stuffing box with graphite seal for temperatures of 220…260 °C, DN 15…50
	G2	0378373 002	Stuffing box with graphite seal for temperatures of 220…260 °C, DN 65…100
	G3	0378373 003	Stuffing box with graphite seal for temperatures of 220…260 °C, DN 125…150
	S	0560260 001	PTFE stuffing box with grease containing silicone
	FB		with bellows on request

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SAUTER VALVES

VUL/BUL UNIT VALVES

Unit Valves in cast brass, for use with AXT, AXS, OR AXM thermal or motorised valves

Part Number	Description		
VUL 010 F340	DN 10	0.16 Kvs	2-way
VUL 010 F330	DN 10	0.4 Kvs	2-way
VUL 010 F320	DN 10	0.63 Kvs	2-way
VUL 010 F310	DN 10	1 Kvs	2-way
VUL 010 F300	DN 10	1.6 Kvs	2-way
VUL 015 F310	DN 15	2.5 Kvs	2-way
VUL 015 F300	DN 15	3.5 Kvs	2-way
VUL 020 F300	DN 20	4.5 Kvs	2-way
BUL 010 F330	DN 10	0.4 Kvs	3-way
BUL 010 F320	DN 10	0.63 Kvs	3-way
BUL 010 F310	DN 10	1 Kvs	3-way
BUL 010 F300	DN 10	1.6 Kvs	3-way
BUL 015 F310	DN 15	2.5 Kvs	3-way
BUL 015 F300	DN 15	4 Kvs	3-way
BUL 020 F300	DN 20	5 Kvs	3-way
BUL 010 F430	DN 10	0.4 Kvs	3-way with T by-pass
BUL 010 F420	DN 10	0.63 Kvs	3-way with T by-pass
BUL 010 F410	DN 10	1 Kvs	3-way with T by-pass
BUL 010 F400	DN 10	1.6 Kvs	3-way with T by-pass
BUL 015 F410	DN 15	2.5 Kvs	3-way with T by-pass
BUL 015 F400	DN 15	4 Kvs	3-way with T by-pass
BUL 020 F400	DN 20	5 Kvs	3-way with T by-pass

AXT, AXS, & AXM ACTUATORS

Part Number	Description		
AXT 211F110	230V	115Nm	normally closed
AXT211F210	230V	110Nm	normally open
AXT 211F112	24V AC/DC	115Nm	normally closed
AXT 211F212	24V AC/DC	110Nm	normally open
AXS 215SF122	24V AC	115Nm	normally closed
AXS 215SF222	24V AC	110Nm	normally open
AXM 217F200	230V	120Nm	
AXM 217F202	24V AC/DC	120Nm	
AXM 217SF402	24V AC/DC	120Nm	
AXM 217SF404	24V AC/DC	160Nm	

VUT/BUT UNIT VALVES IN CAST BRASS WITH AXT, AXS, AXM THERMAL OR MOTORISED ACTUATORS

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2-Way Valves

Type	DN	Connection	Kvs [m³/h]	ΔPmax [bar]
VUT10F220	DN 10	G 1/8	0.2...0.63	2.5
VUT10F210	DN 10	G 1/8	0.2...1	2.5
VUT10F200	DN 10	G 1/8	0.2...1.6	2.5
VUT15F210	DN 10	G 1/8	0.3...2.5	1.8
VUT15F200	DN 10	G 1/8	1...3.5	1.8
VUT20F200	DN 15	G 1/8	1.45	1.0

3-Way Valves

Type	DN	Connection	Kvs [m³/h]	ΔPmax [bar]
BUT10F200	DN 10	G 1/8	1.0	1.7
BUT15F210	DN 15	G 1/8	2.5	1.4
BUT20F200	DN 20	G 1/8	4.5	1.0

3-Way Valves with Bypass

Type	DN	Connection	Kvs [m³/h]	ΔPmax [bar]
BUT10F420	DN 10	G 1/8	0.63	1.7
BUT10F410	DN 10	G 1/8	1.0	1.7
BUT10F400	DN 10	G 1/8	1.6	1.7
BUT15F410	DN 15	G 1/8	2.5	1.4
BUT15F400	DN 15	G 1/8	3.5	1.2
BUT20F400	DN 20	G 1/8	4.5	1.0

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STRAINER IN GUNMETAL, PN16, –10...150 °C

Part Number	Description
0560332 015	ISO 228/1 – G ½, mesh aperture 0.5 mm
0560332 020	ISO 228/1 – G ¾, mesh aperture 0.8 mm

ACCESSORIES FOR VUL AND BUL UNIT VALVES

Part Number	Description
0378133 010	1 threaded sleeve, R 3/8, flat-sealing, with cap nut and flat seal, G½ - R3/ 8
0378133 015	1 threaded sleeve, R ½, flat-sealing, with cap nut and flat seal, G¾ - R½
0378133 020	1 threaded sleeve, R ¾, flat-sealing, with cap nut and flat seal, G1 - R¾
0378134 010	1 solder nipple, Ø 12 mm, flat-sealing, with cap nut and flat seal, G½
0378134 015	1 solder nipple, Ø 15 mm, flat-sealing, with cap nut and flat seal, G¾
0378134 020	1 solder nipple, Ø 22 mm, flat-sealing, with cap nut and flat seal, G1
0378135 010	1 clamping-ring screw fitting for pipe Ø 15 mm, DN 10, flat-sealing, G½ B
0378145 015	1 clamping-ring screw fitting for pipe Ø 15 mm, DN 15, flat-sealing, G¾ B
0378145 020	1 clamping-ring screw fitting for pipe Ø 22 mm, DN 20, flat-sealing, G 1 B

ACCESSORIES FOR AXT 211 ACTUATORS

Part Number	Description
0550240 001	Removal-protection device for AXT/AXS 211 (prevents the unauthorised removal of the plug and actuator)
0550602 021	Plug with cable, white, 2 m, PVC H03VV, 2 × 0.50 mm2
0550602 052	Plug with cable, white, 5 m, PVC H05VV, 2 × 0.75 mm2
0550602 102	Plug with cable, white, 10 m, PVC H05VV, 2 × 0.75 mm2
0550602 152	Plug with cable, white, 15 m, PVC H05VV, 2 × 0.75 mm2
0550602 021B	Plug with cable, black, 2 m, PVC H03VV, 2 × 0.50 mm2
0550602 052B	Plug with cable, black, 5 m, PVC H05VV, 2 × 0.75 mm2
0550602 102B	Plug with cable, black, 10 m, PVC H05VV, 2 × 0.75 mm2
0550602 013	Plug with cable, halogen-free, white, 1 m, Hal F H05Z1Z1, 2 × 0.50 mm2
0550602 023	Plug with cable, halogen-free, white, 2 m, Hal F H05Z1Z1, 2 × 0.75 mm2
0550602 053	Plug with cable, halogen-free, white, 5 m, Hal F H05Z1Z1, 2 × 0.75 mm2
0550602 103	Plug with cable, halogen-free, white, 10 m, Hal F H05Z1Z1, 2 × 0.75 mm2
0550120 022	White plug with integrated LED, 24 V, lights up in blue, cable 2 m, PVC H03VV, 2 × 0.50 mm2
0550120 052	White plug with integrated LED, 24 V, lights up in blue, cable 5 m, PVC H03VV, 2 × 0.75 mm2

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ACCESSORIES FOR AXS 215 ACTUATORS

Part Number	Description
0550240 001	Removal-protection device for AXT/AXS 2 (prevents the unauthorised removal of the plug and actuator)
0550423 121	Continuous control NC, cable white, 2 m, PVC H03, 3 × 0.22 mm^2
0550423 221	Continuous control NO, cable white, 2 m, PVC H03, 3 × 0.22 mm^2
0550423 151	Continuous control NC, cable white, 5 m, PVC H03, 3 × 0.22 mm^2
0550423 251	Continuous control NO, cable white, 5 m, PVC H03, 3 × 0.22 mm^2
0550423 121B	Continuous control NC, cable black, 2 m, PVC H03, 3 × 0.22 mm^2
0550423 221B	Continuous control NO, cable black, 2 m, PVC H03, 3 × 0.22 mm^2
0550423 151B	Continuous control NC, cable black, 5 m, PVC H03, 3 × 0.22 mm^2
0550423 123	Continuous control NC, cable halogen-free, white, 2 m, H03, 3 × 0.22 mm^2
0550423 153	Continuous control NC, cable halogen-free, white, 5 m, H03, 3 × 0.22 mm^2

ACCESSORIES FOR AXM 217 ACTUATORS

Part Number	Description
0550603 001	Cable 24 V, PVC, plug-in, 3 m long
0550603 002	Cable 24 V, PVC, plug-in, 7 m long
0550603 003	Cable 230 V, PVC, plug-in, 3 m long
0550603 004	Cable 230 V, PVC, plug-in, 7 m long
0550603 005	Cable 24 V, halogen-free, plug-in, 3 m long
0550603 006	Cable 24 V, halogen-free, plug-in, 7 m long
0550603 007	Cable 230 V, halogen-free, plug-in, 3 m long
0550603 008	Cable 230 V, halogen-free, plug-in, 7 m long

ACCESSORIES FOR AXM 217S ACTUATORS

Part Number	Description
0550603 009	Cable 24 V, PVC, plug-in, 3 m long
0550603 010	Cable 24 V, PVC, plug-in, 7 m long
0550603 011	Cable 24 V, halogen-free, plug-in, 3 m long
550603 012	Cable 24 V, halogen-free, plug-in, 7 m long

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VUN/BUN MALE THREAD VALVES

Male thread valves in cast brass for use with AVM linear actuators

Part Number	Description		
VUN 015 F350	DN 15	0.4 Kvs	2-way
VUN 015 F340	DN 15	0.63 Kvs	2-way
VUN 015 F330	DN 15	1 Kvs	2-way
VUN 015 F320	DN 15	1.6 Kvs	2-way
VUN 015 F310	DN 15	2.5 Kvs	2-way
VUN 015 F300	DN 15	4 Kvs	2-way
VUN 020 F300	DN 20	6.3 Kvs	2-way
VUN 025 F300	DN 25	10 Kvs	2-way
VUN 032 F300	DN 32	16 Kvs	2-way
VUN 040 F300	DN 40	22 Kvs	2-way
VUN 050 F300	DN 50	28 Kvs	2-way
VUN 050 F200	DN 50	40 Kvs	2-way
BUN 015 F330	DN 15	1 Kvs	3-way
BUN 015 F320	DN 15	1.6 Kvs	3-way
BUN 015 F310	DN 15	2.5 Kvs	3-way
BUN 015 F300	DN 15	4 Kvs	3-way
BUN 020 F300	DN 20	6.3 Kvs	3-way
BUN 025 F300	DN 25	10 Kvs	3-way
BUN 032 F300	DN 32	16 Kvs	3-way
BUN 040 F300	DN 40	22 Kvs	3-way
BUN 050 F300	DN 50	28 Kvs	3-way
BUN 050 F200	DN 50	40 Kvs	3-way

AVM ACTUATORS

Part Number	Description		
AVM 105F100	230V	250Nm	30s running time
AVM 105F120	230V	250Nm	120s running time
AVM 105F122	24V AC	250Nm	120s running time
AVM 105SF132	24V AC/DC	250Nm	35, 60s & 120s running time
AVM 115F120	230V	500Nm	120s running time
AVM 115F122	24V AC	500Nm	120s running time
AVM 115SF132	24V AC/DC	500Nm	60s & 120s running time
AVM 321F110	230V	1000Nm	96s & 48s running time
AVM 321F112	24V AC/DC	1000Nm	96s & 48s running time
AVM 321SF132	24V AC/DC	1000Nm	48s & 32s running time

AVM ACTUATORS

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Part Number	Description
AVM322F120	Valve drive 2/3Pt1000N; 230V; 20mm
AVM322F120R	Valve drive 2/3PtRetrofit,1000N; 230V; 20mm
AVM322F122	Valve drive 2/3Pt1000N; 24V; 20mm
AVM322F122R	Valve drive 2/3PtRetrofit,1000N; 24V; 20mm
AVM322SF132	Valve drive SUT1000N; 24V; 20mm
AVM322SF132R	Valve drive SUTRetrofit, 1000N; 24V; 20mm
AVM322SF132U	Valve drive SUT1000N; 24V; 20mm; UL
AVM234SF132	Valve drive; positioner; 24V; DN 15-150 VU/BU
AVM234SF132-5	Valve drive; positioner; 24V; DN 15-50 V6/B6
AVM234SF132-6	Valve drive; positioner; 24V; DN 60-150 V6/B6
AVM234SF132-7	Valve drive; positioner; 24V; DN100-200;VDL Flange
AVM234SF132U	Valve drive; positioner; 24V; DN 15-150; VU/BU

UD/VQD/BUD/BQD 2 & 3 WAY FLANGED VALVES IN GREY CAST IRON WITH ELECTRIC LINEAR ACTUATORS AVM105/115/321/322/234; AVF124/125/234

2-Way: -10 °C...150 °C

Part Number	Description
VUD015F300	Through flanged valve, PN6, DN15, kvs4, 8mm
VUD015F310	Through flanged valve, PN6, DN15, kvs2.5, 8mm
VUD015F320	Through flanged valve, PN6, DN15, kvs1.6, 8mm
VUD020F300	Through flanged valve, PN6, DN20, kvs6.3, 8mm
VUD025F300	Through flanged valve, PN6, DN25, kvs10, 8mm
VUD032F300	Through flanged valve, PN6, DN32, kvs16, 8mm
VUD040F300	Through flanged valve, PN6, DN40, kvs22, 8mm
VUD050F200	Through flanged valve, PN6; DN50, kvs=40; Lin;8mm
VUD050F300	Through flanged valve, PN6, DN50, kvs28, 8mm

3 Way: -10 °C...150 °C

Part Number	Description
VQD065F300	Through flanged valve, PN6, DN65, kvs63, 20mm
VQD080F300	Through flanged valve, PN6, DN80, kvs100, 20mm
VQD100F300	Through flanged valve, PN6, DN100, kvs160, 40mm

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BUD 3-WAY FLANGED VALVE, PN 6

Part Number	Description
BUD015F300	Three-way flanged valve, PN6, DN15, kvs4, 8mm
BUD015F310	Three-way flanged valve, PN6, DN15, kvs2.5, 8mm
BUD015F320	Three-way flanged valve, PN6, DN15, kvs1.6, 8mm
BUD020F300	Three-way flanged valve, PN6, DN20, kvs6.3, 8mm
BUD025F300	Three-way flanged valve, PN6, DN25, kvs10, 8mm
BUD032F300	Three-way flanged valve, PN6, DN32, kvs16, 8mm
BUD040F300	Three-way flanged valve, PN6, DN40, kvs22, 8mm
BUD050F200	Three-way flanged valve, PN6, DN50, kvs=40;Lin; 8mm
BUD050F300	Three-way flanged valve, PN6, DN50, kvs28, 8mm

BQD 3-WAY FLANGED VALVE, PN 6

Part Number	Description
BQD065F300	Three-way flanged valve, PN6, DN65, kvs63, 20mm
BQD080F300	Three-way flanged valve, PN6, DN80, kvs100, 20mm
BQD100F300	Three-way flanged valve, PN6, DN100, kvs160, 40mm

VUE/VQE/BUE/BQE FLANGED VALVES IN GREY CAST IRON WITH ELECTRIC LINEAR ACTUATORS AVM105/115/321/322/234 AND AVF124/125/234

VUE 2-WAY FLANGED VALVE, PN 16/10 (EL.)

2-way: -10 °C...150 °C

Part Number	Description
VUE015F300	Through flanged valve, PN16/10, DN15, Kvs4, 8mm
VUE015F310	Through flanged valve, PN16/10, DN15, Kvs2.5, 8mm
VUE015F320	Through flanged valve, PN16/10, DN15, Kvs1.6, 8mm
VUE015F330	Through flanged valve, PN16/10, DN15, Kvs1, 8mm
VUE015F340	Through flanged valve, PN16/10, DN15, Kvs0.63, 8mm
VUE015F350	Through flanged valve, PN16/10, DN15, Kvs0.4, 8mm
VUE020F300	Through flanged valve, PN16/10, DN20, Kvs6.3, 8mm
VUE025F300	Through flanged valve, PN16/10, DN25, Kvs10, 8mm
VUE032F300	Through flanged valve, PN16/10, DN32, Kvs16, 8mm
VUE040F300	Through flanged valve, PN16/10, DN40, Kvs22, 8mm
VUE050F200	Through flanged valve, PN10/16; DN50, kvs=40;Li;8mm
VUE050F300	Through flanged valve, PN16/10, DN50, Kvs28, 8mm

VQE 2-WAY FLANGED VALVE, PN 16/10 (EL.)

2 Way: -10 °C...150 °C

Part Number	Description
VQE065F300	Through flanged valve, PN16, DN65, kvs63, 20mm
VQE080F300	Through flanged valve, PN16, DN80, kvs100, 20mm
VQE100F300	Through flanged valve, PN16, DN100, kvs160, 40mm
VQE125F300	Through flanged valve, PN16, DN125, kvs220, 40mm
VQE150F300	Through flanged valve, PN16, DN150, kvs320, 40mm

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BUE 3-WAY FLANGED VALVE, PN 16/10 (EL.)

3 Way: -10 °C...150 °C

Part Number	Description
BUE015F300	Three-way flanged valve, PN16/10, DN15, kvs4, 8mm
BUE015F310	Three-way flanged valve, PN16/10, DN15, kvs2.5, 8mm
BUE015F320	Three-way flanged valve, PN16/10, DN15, kvs1.6, 8mm
BUE015F330	Three-way flanged valve, PN16/10, DN15, kvs1, 8mm
BUE020F300	Three-way flanged valve, PN16/10, DN20, kvs6.3, 8mm
BUE025F300	Three-way flanged valve, PN16/10, DN25, kvs10, 8mm
BUE032F300	Three-way flanged valve, PN16/10, DN32, kvs16, 8mm
BUE040F300	Three-way flanged valve, PN16/10, DN40, kvs22, 8mm
BUE050F200	Three-way flanged valve, PN10/16, DN50, kvs=40, Li;8mm
BUE050F300	Three-way flanged valve, PN16/10, DN50, kvs28, 8mm

BQE 3-WAY FLANGED VALVE, PN 16

3 Way: -10 °C...150 °C

Part Number	Description
BQE065F300	Three-way flanged valve, PN16, DN65, kvs63, 20mm
BQE080F300	Three-way flanged valve, PN16, DN80, kvs100, 20mm
BQE100F300	Three-way flanged valve, PN16, DN100, kvs160, 40mm
BQE125F300	Three-way flanged valve, PN16, DN125, kvs220, 40mm
BQE150F300	Three-way flanged valve, PN16, DN150, kvs320, 40mm

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VQE 2-WAY FLANGED VALVE, PN 16/10 (EL.)

Part Number	Description
AVF124F130	Valvedrive; spring return; 230V;8mm=60/120s;3pt;NC
AVF124F230	Valvedrive; spring return; 230V;8mm=60/120s;3pt;NO
AVF124SF132	Valvedrive; spring;SUT24V; 8mm=60/120s;0-10V;NC
AVF124SF232	Valvedrive; spring;SUT24V; 8mm=60/120s;0-10V;NO
AVF125SF132	Valvedrive; spring;SUT24V~; 8mm=60/120s;0-10V;NC
AVF125SF232	valvedrive; spring;SUT24V~; 8mm=60/120s;0-10V;NO
AVF234SF132	Valve drive SUT with spring return action
AVF234SF132-5	Valve drive; spring ret; posNC; for DN15-50;V6/B6
AVF234SF132-6	Valve drive; spring ret; posNC; for DN65-150;V6/B6
AVF234SF132U	Valve drive SUT with spring return, UL
AVF234SF232	Valve drive SUT with spring return action
AVF234SF232-5	Valve drive; spring ret ;posNO; for DN15-50;V6/B6
AVF234SF232-6	Valve drive ; spring ret ;posNO; for DN65-150;V6/B6
AVF234SF232U	Valve drive SUT with spring return, UL

VUG/BUG FLANGED VALVES IN DUCTILE CAST IRON WITH ELECTRIC LINEAR ACTUATORS AVM322/234; AVF234 & AVN244

BUG 3-WAY FLANGED VALVE

Part Number	Description
BUG015F304	Three-way flanged valve PN25/16, DN15, kvs4, 20mm
BUG015F314	Three-way flanged valve PN25/16, DN15, kvs2.5, 20mm
BUG015F324	Three-way flanged valve PN25/16, DN15, kvs1.6, 20mm
BUG015F334	Three-way flanged valve PN25/16, DN15, kvs1, 20mm
BUG020F304	Three-way flanged valve PN25/16, DN20, kvs6.3, 20mm
BUG025F304	Three-way flanged valve PN25/16, DN25, kvs10, 20mm
BUG032F304	Three-way flanged valve PN25/16, DN32, kvs16, 20mm
BUG040F304	Three-way flanged valve PN25/16, DN40, kvs25, 20mm
BUG050F304	Three-way flanged valve PN25/16, DN50, kvs40, 20mm
BUG065F304	Three-way flanged valve PN25, DN65, kvs63, 40mm
BUG065F316	Three-way flanged valve PN25/16, DN65, kvs63, 40mm
BUG080F304	Three-way flanged valve PN25/16, DN80, kvs100, 40mm
BUG100F304	Three-way flanged valve PN25/16, DN100, kvs160, 40mm
BUG125F304	Three-way flanged valve PN25, DN125, kvs250, 40mm
BUG150F304	Three-way flanged valve PN25, DN150, kvs340, 40mm

VUG 2-WAY FLANGED VALVE, PN 25/16 (EL.)

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Part Number	Description
VUG015F304	Through flanged valve, PN25/16, DN15, kvs4, 20mm
VUG015F314	Through flanged valve, PN25/16, DN15, kvs2.5, 20mm
VUG015F324	Through flanged valve, PN25/16, DN15, kvs1.6, 20mm
VUG015F334	Through flanged valve, PN25/16, DN15, kvs1, 20mm
VUG015F344	Through flanged valve, PN25/16, DN15, kvs0.63, 20mm
VUG015F354	Through flanged valve, PN25/16, DN15, kvs0.40, 20mm
VUG015F364	Through flanged valve, PN25/16, DN15, kvs0.25, 20mm
VUG015F374	Through flanged valve, PN25/16, DN15, kvs0.16, 20mm
VUG020F304	Through flanged valve, PN25/16, DN20, kvs6.3, 20mm
VUG025F304	Through flanged valve, PN25/16, DN25, kvs10, 20mm
VUG032F304	Through flanged valve, PN25/16, DN32, kvs16, 20mm
VUG040F304	Through flanged valve, PN25/16, DN40, kvs25, 20mm
VUG050F304	Through flanged valve, PN25/16, DN50, kvs40, 20mm
VUG065F304	Through flanged valve, PN25, DN65, kvs63, 40mm
VUG065F316	Through flanged valve, PN16, DN65, kvs63, 40mm
VUG080F304	Through flanged valve, PN25/16, DN80, kvs100, 40mm
VUG100F304	Through flanged valve, PN25/16, DN100, kvs160, 40mm
VUG125F304	Through flanged valve, PN25, DN125, kvs250, 40mm
VUG150F304	Through flanged valve, PN25, DN150, kvs340, 40mm

VUP SERIES 2-WAY FLANGED VALVES, PRESSURE-COMPENSATED, IN DUCTILE CAST IRON WITH ELECTRIC LINEAR ACTUATORS SERIES: AVM322/234; AVF234; AVN224.

2-way: -20 °C...200 °C

Part Number	Description
VUP040F304	Through flanged valve PN25,DN40, kvs25, 14mm
VUP050F304	Through flanged valve PN25, DN50, kvs40, 25mm
VUP065F304	Through flanged valve PN25, DN65, kvs63, 25mm
VUP080F304	Through flanged valve PN25, DN80, kvs100, 25mm
VUP100F304	Through flanged valve PN25, DN100 kvs160, 40mm
VUP125F304	Through flanged valve PN25, DN125, kvs250, 40mm
VUP150F304	Through flanged valve PN25, DN150, kvs350, 40mm

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BUTTERFLY VALVES WITH ELECTRIC ROTARY ACTUATORS

DEF BUTTERFLY VALVES IN GREY CAST IRON WITH ASM124/134, ASF122/123, ADM322 OR A44W2 ROTARY ACTUATORS

Part Number	Description
DEF025F200	Water butterfly valve PN16; DN25; Kvs=36
DEF032F200	Water butterfly valve PN16; DN32; Kvs=40
DEF040F200	Water butterfly valve PN16;DN40; Kvs=50
DEF050F200	Water butterfly valve PN16; DN50; Kvs=85
DEF065F200	Water butterfly valve PN16; DN65; Kvs=215
DEF080F200	Water butterfly valve PN16; DN80; Kvs=420
DEF100F200	Water butterfly valve PN16; DN100; Kvs=800
DEF125F200	Water butterfly valve PN16; DN125; Kvs=1010
DEF150F200	Water butterfly valve PN16; DN150; Kvs=2100
DEF200F200	Water butterfly valve PN16; DN200; Kvs=4000

CONTROL VALVE WITH THREADED CONNECTION, PN 10

Improve energy efficiency by: Supply from both sides and the linear characteristic enable energy-efficient working.

Features

- M3R: 3-way valves with nominal diameters DN 15...50
- M4R: 4-way valves with nominal diameters DN 20...50
- Used in combination with the ADM 322 and ASM 105, 115, 124 motorised actuators
- Manual adjustment by means of lever and end stops
- Body, cover, front gate and spindle made of brass

Part Number	Description
M3R015F200	3way screwed mixing valve; PN10; DN15; Kvs=2.5;
M3R020F200	3way screwed mixing valve; PN10; DN20; Kvs=6.0;
M3R025F200	3way screwed mixing valve; PN10; DN25; Kvs=12;
M3R032F200	3way screwed mixing valve; PN10; DN32; Kvs=18;
M3R040F200	3way screwed mixing valve; PN10; DN40; Kvs=26;
M3R050F200	3way screwed mixing valve; PN10; DN50; Kvs=40;
M4R020F200	4way screwed mixing valve; PN10; DN20; Kvs=6.0;
M4R025F200	4way screwed mixing valve; PN10; DN25; Kvs=12;
M4R032F200	4way screwed mixing valve; PN10; DN32; Kvs=18;
M4R040F200	4way screwed mixing valve; PN10; DN40; Kvs=26;
M4R050F200	4way screwed mixing valve; PN10; DN50; Kvs=40;

CONTROL VALVES IN GREY CAST IRON MH AND CAST BRASS M3R/M4R WITH ADM322 OR ASM105/115/124 ROTARY ACTUATORS.

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MH3/MH4 3 AND 4 WAY CONTROL VALVES IN GREY CAST IRON WITH FLANGE CONNECTION PN6.

Continuous control of the supply temperature in heating systems in which a certain loss through leakage is desired.

Features

- MH32F: 3-way valves with nominal diameters DN 20...150
- MH42F: 4-way valves with nominal diameters DN 32...50
- Can be combined with the ADM 322 and ASM 105, 115, 124 motorised actuators
- Manual adjustment via lever
- Body made of grey cast iron; brass gate
- Spindle made of brass up to DN 25 and stainless steel from DN 32
- Stuffing box with double O-ring guarantees the tightness of the seal at the spindle

2 °C...110 °C

Part Number	Description
MH32F100F200	3way flanged mixing valve; PN6; DN100; Kvs=225
MH32F125F200	3way flanged mixing valve; PN6; DN125; Kvs=310
MH32F150F200	3way flanged mixing valve; PN6; DN150; Kvs=420
MH32F20F200	3way flanged mixing valve; PN6; DN20; Kvs=12
MH32F25F200	3way flanged mixing valve; PN6; DN25; Kvs=18
MH32F32F200	3way flanged mixing valve; PN6; DN32; Kvs=28
MH32F40F200	3way flanged mixing valve; PN6; DN40; Kvs=44
MH32F50F200	3way flanged mixing valve; PN6; DN50; Kvs=66
MH32F65F200	3way flanged mixing valve; PN6; DN65; Kvs=100
MH32F80F200	3way flanged mixing valve; PN6; DN80; Kvs=150
MH42F32F200	4way flanged mixing valve; PN6; DN32; Kvs=28
MH42F40F200	4way flanged mixing valve; PN6; DN40; Kvs=44
MH42F50F200	4way flanged mixing valve; PN6;DN50; Kvs=66

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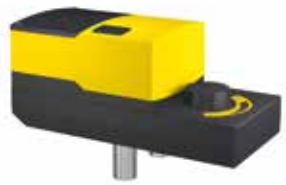
ADM 322 ROTARY ACTUATOR

How energy efficiency is improved: Best operating convenience, precision activation and high energy efficiency with minimal operating noise.

Features

- For operating control units such as control valves, butterfly valves etc.
- For controllers with a switching output (2-point or 3-point control)
- 15 Nm nominal torque and holding torque
- Synchronous motor with electronic control unit and load-dependent cut-off
- Low operating noise
- Direction of operation and running time can be set using coding switches
- Gear unit can be disengaged for manual adjustment
- Electrical parallel operation of up to five actuators possible
- Numerous adapters enable the unit to be fitted onto defined non-SAUTER control valves
- Maintenance-free gearbox made of plastic and steel, and gearbox base-plates made of steel
- Mounting columns made of aluminium



Part Number	Description
ADM322F120	Rotary drive 2/3pt230V; 90°=120s; 15Nm
ADM322F122	Rotary drive 2/3pt24V; 90°=120s; 15Nm
ADM322HF120	Rotary drive 2/3pt Switch230V; 90°=120s; 15Nm
ADM322HF122	Rotary drive 2/3pt Switch24V; 90°=120s; 15Nm
ADM322PF120	Rotary drive 2/3pt Pot.230V; 90°=120s; 15Nm
ADM322PF122	Rotary drive 2/3pt Pot.24V; 90°=120s; 15Nm
ADM322SF122	Rotary drive continuous24V; 90°=120s; 15Nm
ADM322SF152	Rotary drive continuous24V; 90°=30s; 15Nm

Valve type

	Schematic	Position	VUL	BUL	VUT	VDL	BKR	BKT BKL	BUN	BUD BQD BUE BQE	BUG	BUS	VKR	VKAI	VUN	VUD VQD VUE VQE	VUG	VUP	VUS	DEF	MH M3R M4R
Application			PN16	PN16	PN16	PN16 PN25	PN40	PN40	PN16	PN6 PN16	PN16 PN25	PN40	PN40	PN40	PN16	PN6 PN16	PN16 PN25	PN25	PN40	PN16	PN6
Intelligent unitary control			●	●	●	●	●						●								
Ventilation/ air-conditioning preheater	1	1				●	●		●	●	●	●	●		●	●	●	●	●		●
Ventilation/air-conditioning cooler	1	2				●	●						●		●	●	●	●	●		
Ventilation/ air-conditioning steam humidifier	1	3															●		●		
Ventilation/ air-conditioning reheater	1	4					●		●	●	●	●	●		●	●	●	●	●		
Chilled ceiling	2		●	●	●	●	●	●	●	●			●	●	●	●					
Underfloor heating	2		●	●	●	●	●		●	●			●		●	●					
Radiators	2		●	●	●	●															
Underfloor devices	3		●	●	●	●															
Heating groups	4						●		●	●	●	●	●		●	●	●	●	●		●
Cooling tower (regulating valve)	5	1							●						●						
Cooling tower (shut-off damper)	5	2																		●	
Multi-boiler installation (regulating valve)	6	1					●			●	●	●	●		●	●	●	●	●		
Multi-boiler installation (shut-off damper)	6	2						●		●	●	●		●	●	●	●	●	●	●	
Local heating	7						●		●	●	●	●	●		●	●	●	●	●		
District heating	8										●	●					●	●	●		
Page numbers			7	7	8	11/12	15/17	16/18	21	24/25	26	28	15/17	16/18	21	24/25	26	27	28	31	33

SAS - ELECTROMOTIVE ACTUATORS FOR VALVES

Electromotiveactuators with 5.5 mm stroke and 400 N positioning force used as control and shutoff valves in heating and ventilation plants.

Part Number	Operating voltage	Control Signal	Pos. Time
SAS31.00	AC 230 V	3-position	120 s
SAS31.03			30 s
SAS31.50			120 s
SAS31.53			30 s
SAS61.03	AC / DC24 V	DC 0...10 VDC 4...20 mA0...1000 Ω	30 s
SAS61.03U			
SAS61.03/MO		Modbus RTU	
SAS61.33		DC 0...10 VDC 4...20 mA0...1000 Ω	
SAS61.33U			
SAS61.33/MO		Modbus RTU	
SAS61.53		DC 0...10 VDC 4...20 mA0...1000 Ω	
SAS81.00	AC / DC24 V	3-position	120 s
SAS81.03			30 s
SAS81.03U			
SAS81.33			
SAS81.33U			

SIEMENS

VVG & VXG SERIES VALVES FOR SAS ELECTROMOTIVE ACTUATORS

2-port and 3-port valves, externally threaded, PN16 VVG44.., VXG44..

In small and medium-sized heating, ventilating and air conditioning systems as a control valve for mixing and diverting functions or as a shutoff valve. For closed circuits only.

Features

- Housing made of bronze CC499K
- DN 15...40
- kvs 0.25...25 m3/h
- Flat sealing, externally threaded connections G..B, as per ISO 228-1
- Siemens can deliver fitting sets ALG.. with threaded connection and ALS.. with welded connection
- Manual adjustment by means of mounted knob
- Can be equipped with motorised SAS.. actuators

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SIEMENS

SAX..P - ELECTROMOTORIC ACTUATORS FOR VALVES

Actuators with 20 mm stroke and 500 N force. Electromotoric actuators to operate as control valves on ventilation, air conditioning, district heating and refrigeration plants.

Part Number	Operating voltage	Positioning signal
SAX31P03	AC 230 V	3-position
SAX61P03	AC 24 V DC 24 V	DC ...10 V DC 4...20 mA0...1000 Ω
SAX61P03/MO		Modbus RTU
SAX81P03		3-position

SSC - ELECTROMOTORIC ACTUATORS

For operation of water-side control of hot andcooling water in heating, ventilation and air conditioning systems.

Part Number	Operating voltage	Run time at 50 Hz	Control signal	Auxiliary switch
SSC31	AC 230 V	150 s	3-position	
SSC81	AC 24 V			
SSC61	AC / DC 24 V	30 s	DC 0...10 V	
SSC61.5				With fail-safe function (30 s)

SSB - ELECTROMOTORIC ACTUATORS

For operation of water-side control of hot and cooling water in heating, ventilation and air conditioning systems.

Part Number	Operating voltage	Run time at 50 Hz	Control signal	Auxiliary switch
SSB31	AC 230 V	150 s	3-position	
SSB31/00				
SSB31.1				Yes
SSB81	AC 24 V			
SSB81/00				
SSB81.1				Yes
SSB61	AC / DC 24 V	75 s	DC 0...10 V	
SSB61/00				

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REGIN BALL VALVES NEW!

BV - 2- AND 3-WAY BALL VALVES, DN15-50, KVS 0.6-63

Valves designed for control of hot, cold or glycol-mixed water in heating and ventilation systems.
The valves are intended for use together with Regin's RVAB4/RVAB5 actuators.

Features

- Size DN15...DN50
- Kvs value 0.6...63
- Media temperature -5...+140°C
- Pressure rating PN40
- Rangeability 100:1
- High close-off pressures

2 PORT

Part Number	Size (mm)	Kv (m^3/h)
BV215	15	6.3
BV220	20	10
BV225	25	16
BV232	32	25
BV240	40	40
BV250	50	60

2 PORT

Part Number	Size (mm)	Kv (m^3/h)
BV315	15	4.0
BV320	20	6.3
BV325	25	10
BV332	32	16
BV340	40	25
BV350	50	40

REGIN VALVE ACTUATORS RVAB4/RVAB5

Quarter turn ball valve actuator mainly to be used with Regin ball valves BV2 and BV3.

Features

- Protection class IP54
- Torque and speed 4 Nm (45s) and 5 Nm (50s)
- 24 V AC / 230 V AC
- Quarter turn, 90°
- Easy to mount on valve with just one screw
- Manual operation
- Position indication

Part Number	FORCE (NM)	Voltage (V)	To Suit Valve
RVAB4-24	4	24	DN15-DN25
RVAB4-230	4	230	DN15-DN25
RVAB5-24	5	24	DN32-DN50
RVAB5-230	5	230	DN32-DN50
RVAB4-24A	4	24, 0-10	DN15-DN25
RVAB5-24A	5	24, 0-10	DN32-DN50

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ZFCM - INTERNALLY THREADED 2- AND 3-WAY VALVES

Valves intended for on/off control of hot or cold water in heating or cooling systems. The valves can only be used together with Regin's RVAFC actuators. The valves are available as both 2- and 3-way models.

Features

- Size DN15...DN32
- Kvs value 3.2...10
- Media temperature 2...94°C
- Pressure rating PN16
- Tight closing

2 PORT

Part Number	Size (mm)	Kv (m^3/h)
ZFCM-215X	15	3.2
ZFCM-220X	20	4.6
ZFCM-225X	25	5.7
ZFCM-232X	32	10

2 PORT

Part Number	Size (mm)	Kv (m^3/h)
ZFCM-315X	15	3.2
ZFCM-320X	20	4.6
ZFCM-325X	25	5.7
ZFCM-330X	32	10

ACTUATORS FOR ZFCM VALVES

Actuators for the ZFCM valves - Intended for on/off control of hot or cold water in heating or cooling systems. The actuator has a synchronous motor and spring return mechanism. It is intended for use together with Regin's ZFCM valves.

Part Number	Description
RVAFC-2302	VALVE ACTUATOR FOR ZFCM, 2-WAY 230V
RVAFC-2303	VALVE ACTUATOR FOR ZFCM, 3-WAY 230V

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- Valve actuators

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- ✓ Modbus variables for all parameters to ensure open communication
- ✓ Option to connect analog pressure sensor to get full control of the system pressure.
- ✓ API for visualization and optimization via cloud.
- ✓ Simple connection of energy meters via M-bus for e.g., power limitation.

REGIN THERMAL ACTUATORS & ADAPTORS - RTA(O)M THERMAL ACTUATOR 100 OR 125 N

Thermal actuators with position indication for control of valves in heating or cooling systems.
The actuator can be used to control radiator circuits, solar heating systems, heating or cooling coils, floor heating, etc.

Features

- Protection class IP54
- Stroke 4 or 6.5 mm
- 100 % protection against leaky valves
- Noiseless and maintenance-free
- Available in normally closed (NC) or normally open (NO) models
- Power consumption 1 or 1.2 W
- Modern and compact design

Part Number	Supply voltage	Control signal	Stroke time	Power consumption	Force	Stroke
RTAM100-24	24V AC/DC	On/off, NC	3.5 min	1 W, inrush current 300 mA during max 2 min	100 N	4 mm
RTAOM100-24	24V AC/DC	On/off, NO	3.5 min	1 W, inrush current 300 mA during max 2 min	100 N	4 mm
RTAOM100-24A	24V AC	0...10 V DC, NO	30 s/ mm	1 W, inrush current 300 mA during max 2 min	100 N	4 mm
RTAM100-24A	24V AC	0...10 V DC, NC	30 s/ mm	1 W, inrush current 300 mA during max 2 min	100 N	4 mm
RTAM100-230	230V AC	On/off, NC	3.5 min	1 W, inrush current 970 mA (550 mA during max 100 ms)	100 N	4 mm
RTAOM100-230	230V AC	On/off, NO	3.5 min	1 W, inrush current 970 mA (550 mA during max 100 ms)	100 N	4 mm
RTAM125-24	24V AC/DC	On/off, NC	4.5 min	1.2 W, inrush current 300 mA during max. 2 min.	125 N	6.5 mm
RTAOM125-24	24V AC/DC	On/off, NO	4.5 min	1.2 W, inrush current 300 mA during max. 2 min.	125 N	6.5 mm
RTAM125-24A	24V AC	0...10 V DC, NC	30 s/ mm	1.2 W, inrush current 300 mA during max. 2 min.	125 N	6.5 mm
RTAM125-230	230V AC	On/off, NC	4.5 min	1.2 W, inrush current 970 mA (550 mA during max. 100 ms)	125 N	6.5 mm
RTAOM125-230	230V AC	On/off, NO	4.5 min	1.2 W, inrush current 970 mA (550 mA during max. 100 ms)	125 N	6.5 mm

Part Number	Description
RTA-CASE	Adapter case containing an assortment of adapters for testing on site

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REGIN

GF2/GF3 2– AND 3–WAY DIN-STANDARD FLANGED VALVE

Control valves for use in heating, cooling and ventilation systems. They are intended to be used together with Regin's RVAN actuators. The valves have DIN-standard lengths.

Features

- Size DN25...200
- Kvs value 6.3...550
- Rangeability 100:1 (DN50...200), > 50:1 (DN25...40)
- No leakage
- Pressure rating PN16
- Media temperature -5...+120°C
- Face-to-face dimensions as per DIN ng

Part Number	Description
GF2100-125	Flanged valve, PN16, 2-way, DN100, kvs 125, DIN, grey cast iron
GF2100-160	Flanged valve, PN16, 2-way, DN100, kvs 160, DIN, grey cast iron
GF2125-215	Flanged valve, PN16, 2-way, DN125, kvs 215, DIN, grey cast iron
GF2150-310	Flanged valve, PN16, 2-way, DN150, kvs 310, DIN, grey cast iron
GF2200-550	Flanged valve, PN16, 2-way, DN200, kvs 550, DIN, grey cast iron
GF225-10	Flanged valve, PN16, 2-way, DN25, kvs 10, DIN, grey cast iron
GF225-6.3	Flanged valve, PN16, 2-way, DN25, kvs 6.3, DIN, grey cast iron
GF232-10	Flanged valve, PN16, 2-way, DN32, kvs 10, DIN, grey cast iron
GF232-16	Flanged valve, PN16, 2-way, DN32, kvs 16, DIN, grey cast iron
GF240-16	Flanged valve, PN16, 2-way, DN40, kvs 16, DIN, grey cast iron
GF240-25	Flanged valve, PN16, 2-way, DN40, kvs 25, DIN, grey cast iron
GF250-31.5	Flanged valve, PN16, 2-way, DN50, kvs 31.5, DIN, grey cast iron
GF250-40	Flanged valve, PN16, 2-way, DN50, kvs 40, DIN, grey cast iron
GF265-50	Flanged valve, PN16, 2-way, DN65, kvs 50, DIN, grey cast iron
GF265-63	Flanged valve, PN16, 2-way, DN65, kvs 63, DIN, grey cast iron
GF280-100	Flanged valve, PN16, 2-way, DN80, kvs 100, DIN, grey cast iron
GF280-80	Flanged valve, PN16, 2-way, DN80, kvs 80, DIN, grey cast iron
GF3100-125	Flanged valve, PN16, 3-way, DN100, kvs 125, DIN, grey cast iron
GF3100-160	Flanged valve, PN16, 3-way, DN100, kvs 160, DIN, grey cast iron
GF3125-215	Flanged valve, PN16, 3-way, DN125, kvs 215, DIN, grey cast iron
GF3150-310	Flanged valve, PN16, 3-way, DN150, kvs 310, DIN, grey cast iron
GF3200-550	Flanged valve, PN16, 3-way, DN200, kvs 550, DIN, grey cast iron
GF325-10	Flanged valve, PN16, 3-way, DN25, kvs 10, DIN, grey cast iron
GF325-6.3	Flanged valve, PN16, 3-way, DN25, kvs 6.3, DIN, grey cast iron
GF332-10	Flanged valve, PN16, 3-way, DN32, kvs 10, DIN, grey cast iron
GF332-16	Flanged valve, PN16, 3-way, DN32, kvs 16, DIN, grey cast iron
GF340-16	Flanged valve, PN16, 3-way, DN40 kvs 16, DIN, grey cast iron
GF340-25	Flanged valve, PN16, 3-way, DN40 kvs 25, DIN, grey cast iron
GF350-31.5	Flanged valve, PN16, 3-way, DN50, kvs 31.5, DIN, grey cast iron
GF350-40	Flanged valve, PN16, 3-way, DN50, kvs 40, DIN, grey cast iron
GF365-50	Flanged valve, PN16, 3-way, DN65, kvs 50, DIN, grey cast iron
GF365-63	Flanged valve, PN16, 3-way, DN65, kvs 63, DIN, grey cast iron
GF380-100	Flanged valve, PN16, 3-way, DN80, kvs 100, DIN, grey cast iron
GF380-80	Flanged valve, PN16, 3-way, DN80, kvs 80, DIN, grey cast iron

NTVS - 2-WAY CONTROL VALVES, DN15-150, KVS 0.4-310, DIN-STANDARD FOR DISTRICT HEATING

REGIN

Pressure balanced 2-way valve intended for control of hot, cold or glycol-mixed water or district heating within the temperature range -5...+185°C. Intended for use with the RVAN... actuators.

Features

- Size DN15...DN150
- Kvs value 0.4...310
- Media temperature -5...185°C
- Pressure rating PN16
- No leakage
- Pressure balanced
- Flange distance according to DIN

Part Number	Nominal diameter	Kvs	Stroke	Actuator
NTVS15-0.4	DN15	0.4	20 mm	RVAN5
NTVS15-1.0	DN15	1.0	20 mm	RVAN5
NTVS15-1.6	DN15	1.6	20 mm	RVAN5
NTVS15-2.7	DN15	2.7	20 mm	RVAN5
NTVS20-0.8	DN20	0.8	20 mm	RVAN5
NTVS20-1.6	DN20	1.6	20 mm	RVAN5
NTVS20-2.7	DN20	2.7	20 mm	RVAN5
NTVS20-3.9	DN20	3.9	20 mm	RVAN5
NTVS20-6.3	DN20	6.3	20 mm	RVAN5
NTVS25-1.6	DN25	1.6	20 mm	RVAN5
NTVS25-2.5	DN25	2.5	20 mm	RVAN5
NTVS25-4.0	DN25	4.0	20 mm	RVAN5
NTVS25-6.3	DN25	6.3	20 mm	RVAN5
NTVS25-10	DN25	10	20 mm	RVAN5
NTVS32-4.0	DN32	4.0	20 mm	RVAN5
NTVS32-6.3	DN32	6.3	20 mm	RVAN5
NTVS32-10	DN32	10	20 mm	RVAN5
NTVS32-16	DN32	16	20 mm	RVAN5
NTVS40-6.3	DN40	6.3	20 mm	RVAN5
NTVS40-10	DN40	10	20 mm	RVAN5
NTVS40-16	DN40	16	20 mm	RVAN5
NTVS40-27	DN40	27	20 mm	RVAN5
NTVS50-6.3	DN50	6.3	20 mm	RVAN5
NTVS50-10	DN50	10	20 mm	RVAN5
NTVS50-16	DN50	16	20 mm	RVAN5
NTVS50-27	DN50	27	20 mm	RVAN5
NTVS50-39	DN50	39	20 mm	RVAN5
NTVS65-16	DN65	16	20 mm	RVAN5
NTVS65-27	DN65	27	20 mm	RVAN10
NTVS65-39	DN65	39	20 mm	RVAN10
NTVS65-63	DN65	63	20 mm	RVAN10
NTVS80-100	DN80	100	20 mm	RVAN10
NTVS100-160	DN100	160	38 mm	RVAN18
NTVS125-215	DN125	215	40 mm	RVAN25
NTVS150-310	DN150	310	40 mm	RVAN25

REGIN

RVAN VALVE ACTUATOR, 230 V OR 24 V SUPPLY VOLTAGE AND 3–POINT OR 0(2)...10 V DC CONTROL

Valve actuator for control of Regin's range of valves. Available in models with actuator force of 500, 1000, 1800 or 2500 N. The actuators can be operated manually with the manual override mechanism on the lid. Using an adapter kit, the actuator can also be adapted for use with other valves on the market.

Features

- Stroke 10...30 mm (500 N, 1000 N), 10...52 mm (1800 N, 2500 N)
- Manual operation
- Position indication
- Automatic stroke adjustment (only RVAN... 24A range)
- Force 500...2500 N

Part Number	Supply Voltage	Control Signal	Max Power Consumption	Force	Stroke	Stroke time
RVAN5-230	230 V AC ±15 %, 50 Hz	3-point	15.3 W / 16.5 VA	500 N	10...30 mm	3 s/mm
RVAN10-230	230 V AC ±15 %, 50 Hz	3-point	15.3 W / 16.5 VA	1000 N	10...30 mm	3 s/mm
RVAN18-230	230 V AC ±15 %, 50 Hz	3-point	15.3 W / 16.5 VA	1800 N	10...52 mm	3 s/mm
RVAN25-230	230 V AC ±15 %, 50 Hz	3-point	15.3 W / 16.5 VA	2500 N	10...52 mm	3 s/mm
RVAN5-24	24 V AC ±15 %	3-point	7.8 W / 8.0 VA	500 N	10...30 mm	3 s/mm
RVAN10-24	24 V AC ±15 %	3-point	6.2 W / 6.7 VA	1000 N	10...30 mm	3 s/mm
RVAN18-24	24 V AC ±15 %	3-point	10.9 W / 11.7 VA	1800 N	10...52 mm	3 s/mm
RVAN25-24	24 V AC ±15 %	3-point	10.9 W / 11.7 VA	2500 N	10...52 mm	3 s/mm
RVAN5-24A	24 V AC/DC ±15 %	0...10 V DC, 2...10 V DC or 4...20 mA.1	5.1 W / 13.9 VA	500 N	10...30 mm	1.5 s/mm
RVAN10-24A	24 V AC/DC ±15 %	0...10 V DC, 2...10 V DC or 4...20 mA.1	6.2 W / 17.4 VA	1000 N	10...30 mm	1.5 s/mm
RVAN18-24A	24 V AC/DC ±15 %	0...10 V DC, 2...10 V DC or 4...20 mA.1	8.6 W / 22.4 VA	1800 N	10...52 mm	3 s/mm
RVAN25-24A	24 V AC/DC ±15 %	0...10 V DC, 2...10 V DC or 4...20 mA.1	8.6 W / 22.4 VA	2500 N	10...52 mm	3 s/mm

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ZMD2/ZMD3 2– AND 3–WAY EXTERNALLY THREADED CONTROL VALVE

REGIN

Externally threaded control valves intended for use in heating and cooling systems together with the RVAZ4... series of electromechanical actuators.

Features

- Size DN15...DN40
- Kvs value 0.25...25
- Media temperature 2...110°C
- Pressure rating PN16
- Rangeability >50:1
- Supplied complete with pipe fittings

2-way valves

Part Number	Nominal diameter	Kvs	Max. diff. pressure	Actuator
ZMD215-0.25	DN15	0.25	400 kPa	RVAZ4
ZMD215-0.4	DN15	0.4	400 kPa	RVAZ4
ZMD215-0.6	DN15	0.6	400 kPa	RVAZ4
ZMD215-1.0	DN15	1.0	400 kPa	RVAZ4
ZMD215-1.6	DN15	1.6	400 kPa	RVAZ4
ZMD215-2.5	DN15	2.5	400 kPa	RVAZ4
ZMD215-4.0	DN15	4.0	400 kPa	RVAZ4
ZMD220-6.3	DN20	6.3	350 kPa	RVAZ4
ZMD225-10	DN25	10	200 kPa	RVAZ4
ZMD232-16	DN32	16	130 kPa	RVAZ4
ZMD240-25	DN40	25	60 kPa	RVAZ4

3-way valves

Part Number	Nominal diameter	Kvs	Max. diff. pressure	Actuator
ZMD315-0.25	DN15	0.25	400 kPa	RVAZ4
ZMD315-0.4	DN15	0.4	400 kPa	RVAZ4
ZMD315-0.6	DN15	0.6	400 kPa	RVAZ4
ZMD315-1.0	DN15	1.0	400 kPa	RVAZ4
ZMD315-1.6	DN15	1.6	400 kPa	RVAZ4
ZMD315-2.5	DN15	2.5	400 kPa	RVAZ4
ZMD315-4.0	DN15	4.0	400 kPa	RVAZ4
ZMD320-6.3	DN20	6.3	350 kPa	RVAZ4
ZMD325-10	DN25	10	200 kPa	RVAZ4
ZMD332-16	DN32	16	130 kPa	RVAZ4
ZMD340-25	DN40	25	60 kPa	RVAZ4

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REGIN

ZTV / ZTR - 2- AND 3-WAY CONTROL VALVES DN15-25, KVS 0.25-7.0, 5.5 MM STROKE

Externally threaded 2– and 3–way zone valves. Valves used for control of hot and cold water in climate, heating and ventilation systems. They can also control glycol-mixed water in for example liquid connected recovery systems. Intended to be used together with the RVAZ4 actuators.

Features

- Size DN15...DN25
- Kvs value 0.25...7.0
- Media temperature 1...110°C
- Pressure rating PN16
- Rangeability better than 50:1
- No leakage

2-way valves

Part Number	Nominal diameter	Connection	Kvs	Max. diff. pressure	Actuator
ZTV15-0,25	DN15	G½"	0.25	350 kPa	RVAZ4
ZTV15-0,4	DN15	G½"	0.4	350 kPa	RVAZ4
ZTV15-0,6	DN15	G½"	0.6	350 kPa	RVAZ4
ZTV15-1,0	DN15	G½"	1.0	350 kPa	RVAZ4
ZTV15-1,6	DN15	G½"	1.6	350 kPa	RVAZ4
ZTV20-2,0	DN20	G¾"	2.0	250 kPa	RVAZ4
ZTV20-2,5	DN20	G¾"	2.5	250 kPa	RVAZ4
ZTV20-4,0	DN20	G¾"	4.0	150 kPa	RVAZ4
ZTV20-6,0	DN20	G¾"	6.0	150 kPa	RVAZ4
ZTV25-7,0	DN25	G1"	7.0	70 kPa	RVAZ4

3-way valves

Part Number	Nominal diameter	Connection	Kvs	Max. diff. pressure	Actuator
ZTR15-0,25	DN15	G½"	0.25	350 kPa	RVAZ4
ZTR15-0,4	DN15	G½"	0.4	350 kPa	RVAZ4
ZTR15-0,6	DN15	G½"	0.6	350 kPa	RVAZ4
ZTR15-1,0	DN15	G½"	1.0	350 kPa	RVAZ4
ZTR15-1,6	DN15	G½"	1.6	350 kPa	RVAZ4
ZTR20-2,0	DN20	G¾"	2.0	250 kPa	RVAZ4
ZTR20-2,5	DN20	G¾"	2.5	250 kPa	RVAZ4
ZTR20-4,0	DN20	G¾"	4.0	150 kPa	RVAZ4
ZTR20-6,0	DN20	G¾"	6.0	150 kPa	RVAZ4
ZTR25-7,0	DN25	G1"	7.0	70 kPa	RVAZ4

EASY-MOUNT VALVE ACTUATOR 400 N, 5.5 MM STROKE, 0...10 V OR 3-POSITION CONTROL

The RVAZ4 series of valve actuators are easy to mount and have a clear position indication which shows the position of the actuator. The actuator has manual manoeuvring. The RVAZ4 models are intended for use together with Regin's valve ranges ZTV/ZTR and ZMD.

Part Number	Description
RVAZ4-24A	0...10 V DC control, 24 V AC / DC supply voltage
RVAZ4-24	3-position control, 24 V AC supply voltage
RVAZ4-230	3-position control, 230 V AC supply voltage

ESBE

ROTARY MOTORISED MIXING VALVES

The ESBE VRG130 series is a range of compact low leakage mixing valves available in dimensions DN15–50 and made of special brass alloys for use in heating and cooling installations. Together with actuator series ESBE ARA600 the VRG130 valves are also easily automated

Part Number	Description		
VRG131-20	¾" bspf	6.3 Kvs	PN10, water -10/+110°C
VRG131-25	1" bspf	10 Kvs	PN10, water -10/+110°C
VRG131-32	1¼" bspf	16 Kvs	PN10, water -10/+110°C
VRG131-40	1½ bspf	25 Kvs	PN10, water -10/+110°C
VRG131-50	2" bspf	40 Kvs	PN10, water -10/+110°C

ESBE ARA600 ACTUATORS

The ESBE ARA600 series is a compact actuator designed for operating rotary mixing valves DN 15-50. The actuators ARA6X1, ARA6X2, ARA6X3 and ARA6X4 are controlled by 3-point signal, and are recommended for mixing applications. The actuator has an operating range of 90° and the valve can easily be manually operated by the pull-and-turn knob on the front of the actuator.

Part Number	Description		
ARA656	230v	2-point c/w aux switch	6Nm
ARA664	24v	3-point c/w aux swich	6Nm
ARA652	230v	3-point c/w aux switch	6Nm
ARA659	24v	0-10v	6Nm

ESBE F SERIES

The ESBE F series valve is available in dimensions DN 20-150 with flanged connections, and is made of cast iron for use in heating and cooling installations.

Part Number	Description		
3F50	50mm (FL)	66 Kvs	PN6, water -10/+110°C
3F65	65mm (FL)	100 Kvs	PN6, water -10/+110°C
3F80	80mm (FL)	150 Kvs	PN6, water -10/+110°C
3F100	100mm (FL)	225 Kvs	PN6, water -10/+110°C
3F125	125mm (FL)	310 Kvs	PN6, water -10/+110°C
3F150	150mm (FL)	420 Kvs	PN6, water -10/+110°C

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DB-VZ2 & VZ3 ZONE VALVES

The valves DB-VZ coupled with the synchronous motor SM230/ CA, SM24/CA and SM230/SA, SM24/SA are suitable for heating and cooling water in zone systems for ON-OFF control. Typical applications are for fan-coil units. Connection between actuator and valve by nut for a convenient mounting.

Features

- Female threaded connections.
- Power supply from electric system, synchronous motor with clutch.
- Actuator is fitted with manual operating lever for manual override when power supply is not applied or if a power failure occurs.
- Silent operation
- Strong gear and spring for long-term working
- Reliability
- Models are available with an optional end stroke switch to provide valve position indication or control function such as pump or fan start/stop

Part Number	Description			
2-way valves: the plug closes against the flow; 3-way valves: the plug blocks the flow toward user side				
DB-VZ2-15	2-way	DN15 (G 1/2	1.6 Kvs	On/Off
DB-VZ2-20	2-way	DN20 (G 3/4)	3.5 Kvs	On/Off
DB-VZ2-25	2-way	DN25 (G 1)	5.5 Kvs	On/Off
DB-VZ3-15	3-way	DN15 (G 1/2)	1.6 Kvs	On/Off
DB-VZ3-20	3-way	DN20 (G 3/4)	3.5 Kvs	On/Off
DB-VZ3-25	3-way	DN25 (G 1)	5.5 Kvs	On/Off

SM ACTUATORS

Part Number	Description	
SM230/CA	230V With auxiliary microswitch	On/Off with manual override
SM24/CA	24V With auxiliary microswitch	On/Off with manual override

ROBUST PROTECTIVE COVER FOR CONTROL VALVES AND DAMPER ACTUATORS

For challenging operating conditions, the BLUE BAG Series cover is the ideal solution for protecting control valves in harsh environments. This innovative cover offers effective weather protection for control valves and actuators.

Constructed from heavy-duty fabric, the BLUE BAG Series provides substantial defence against severe weather conditions such as rain, sleet, and snow. The “Ice Blue” colour further reduces solar glare, ensuring the protected equipment remains cooler than with other protection methods. The cover can be installed and removed in seconds and is available in two sizes to accommodate various control valve assemblies.

Features

- Easiest of installations
- Long-lasting nylon rope included
- Ice Blue colour to minimise solar glare
- Water repellent fabric
- Keeps equipment cooler in hot conditions
- Keeps equipment clean and protected
- UV protective coating

Part Number	Description
BLUE BAG LARGE	Large outdoor protective cover suitable for most makes of motorised valves - 12x16 inches
BLUE BAG SMALL	Small outdoor protective cover suitable for most Makes of motorised valves - 10x12 inches

DANFOSS

ROTARY SHOE VALVES

HFE rotary valves are primarily designed for regulation of flow temperature in heating systems where a certain leakage can be accepted and where a defined control characteristic is not required.

Rotary shoe valves for 20-150mm, used with 3-point and Modulating (0 - 10V) actuators - HFE flanged valves, PN6 cast iron body - Suitable for medium temperature up to 110°C - Lowest leakage in class - For mixing and diverting applications.

Part Number	Description			
065Z0418	HRE3 20/6.3	DN20	6.3 Kvs	3 - way mixing
065Z0419	HRE3 25/10	DN25	10 Kvs	3 - way mixing
065Z0420	HRE3 32/16	DN32	16 Kvs	3 - way mixing
065Z0421	HRE3 40/25	DN40	25 Kvs	3 - way mixing
065Z0422	HRE3 50/40	DN50	40 Kvs	3 - way mixing
065Z043300	HFE3 65/90	DN65	90 Kvs	3 - way mixing
065Z043400	HFE3 80/150	DN80	150 Kvs	3 - way mixing
065Z043500	HFE3 100/225	DN100	225 Kvs	3 - way mixing
065Z043600	HFE3 125/280	DN125	280 Kvs	3 - way mixing
065Z043700	HFE3 150/400	DN150	400 Kvs	3 - way mixing
ET3	Linkage for Shoe Valve			

DANFOSS ROTARY SHOE VALVE ACTUATORS

AMB actuators for use with HRE/HFE rotary shoe valves. For use in 3-point control and modulating applications with LED indication of turning direction, selectable speed on DIP switch and manual valve turning mode enabled by a permanent clutch.

Part Number	Description	
082H0213	AMB162 24V	HRE 20-50
082H0218	AMB162 24V	HRE 20-50, Auxiliary Switch
082H0234	AMB182 24V	HFE 65-150
082H0236	AMB182 24V	HFE 65-150, Auxiliary Switch
082H0223	AMB162 230V	HRE 20-50
082H0228	B162 230V	HRE 20-50, Auxiliary Switch
082H0238	AMB182 230V	HFE 65-150
082H0240	AMB182 230V	HFE 65-150, Auxiliary Switch
082H0230	AMB162 24 0-10V	HRE 20-50
082H0241	AMB182 24 0-10V	HFE 65-150

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DANFOSS AMZ 2 PORT MOTORISED BALL VALVES

The AMZ range of motorised ball valves are typically used in domestic and commercial central heating applications. Supplied as complete valve/actuator assembly with indication of actual valve position. Suitable for medium temperature up to 110°C with auxiliary switch fitted as standard with LED indication.Silent and reliable operation.

Part Number	Description	
082G5406	DN15	230V
082G5407	DN20	230V
082G5408	DN25	230V
082G5409	DN32	230V
082G5410	DN40	230V
082G5411	DN50	230V
082G5400	DN15	24V
082G5401	DN20	24V
082G5402	DN25	24V
082G5403	DN32	24V
082G5404	DN40	24V
082G5405	DN50	24V

DANFOSS AMZ 3 PORT MOTORISED BALL VALVES

Part Number	Description	
082G5418	DN15	230V
082G5419	DN20	230V
082G5420	DN25	230V
082G5421	DN32	230V
082G5412	DN15	24V
082G5413	DN20	24V
082G5414	DN25	24V
082G5415	DN32	24V

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WRAS APPROVED SOLENOID VALVES-GOLDSEAL

The WRAS approved range of 2 way normally closed servo assisted solenoid valves.

FEATURES

- WRAS approved solenoid valves for water
- EPDM seal, brass body
- For temperatures up to 120c
- Pressure range 0 -16 bar
- Normally closed as standard

Part Number	Size (inch)	Voltage
WSV-G-15/230	½"	230
WSV-G-20/230	¾"	230
WSV-G-25/230	1"	230
WSV-G-32/230	1¼"	230
WSV-G-40/230	1½	230
WSV-G-50/230	2"	230

Part Number	Size (inch)	Voltage
WSV-G-15/24	½"	24
WSV-G-20/24	¾"	24
WSV-G-25/24	1"	24
WSV-G-32/24	1¼"	24
WSV-G-40/24	1½	24
WSV-G-50/24	2"	24

Suffixes (add to part code)
A - 24VAC
D - 24 VDC

Part Number	Description	Voltage
WSV-G 24	Spare Coils	24
WSV-G 230	Spare Coils	230

VEXVE

TERMOMIX ROTARY SHOE VALVES

Rotary shoe valves for 20-50mm, used with 3-point and Modulating (0 - 10V) actuators - Internally threaded, cast iron body - Suitable for medium temperature up to 110°C - Suitable for - mixing and diverting applications - Use with Gruner actuators and ET3 linkage

Part Number	Description		
2320	20mm Rotary Shoe Valve	3 Kvs	3 - way mixing valve
2325	25mm Rotary Shoe Valve	17 Kvs	3 - way mixing valve
2332	32mm Rotary Shoe Valve	24 Kvs	3 - way mixing valve
2340	40mm Rotary Shoe Valve	31 Kvs	3 - way mixing valve
2350	50mm Rotary Shoe Valve	41 Kvs	3 - way mixing valve
ET3	Linkage for Shoe Valve		

XUROX
BUTTERFLY VALVES

A range of wafer type butterfly valves & actuators used in heating and cooling systems.
Complete with Aluminium body – DN50-150, Stainless steel disc and shaft and EPDM seat.

Part Number	Description	
405WEHT40	40mm	50K vs
405WEHT50	50mm	83 Kvs
405WEHT65	65mm	212 Kvs
405WEHT80	80mm	400 Kvs
405WEHT100	100mm	750 Kvs
405WEHT125	125mm	1100 Kvs
405WEHT150	150mm	2000 Kvs

SONTAY
VZ ZONE VALVES

Part Number	Description
VZ-2N-15	2-Port valves
VZ-2N-20	2-Port valves
VZ-2N-25	2-Port valves
VZ-3-15	3-Port valves
VZ-3-20	3-Port valves
VZ-3-25	3-Port valves

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DAMPER ACTUATORS

JOHNSTON CONTROLS & JOVENTA ACTUATORS

The JOVENTA SILENCE electric damper-actuator series have been developed to operate small and medium air dampers in ventilation and air conditioning systems.

The compact design and universal adapter fitted with limitation of rotation angle make this JOVENTA actuator highly versatile.

2/3-point control, Load-independent running time, Up to 5 actuators in parallel - Plug-in terminal block connection - Simple direct mounting with universal adapter for fitting to Ø 6-mm to 16-mm shaft or with Z01DN adapter kit for 8,10,11 and 12 mm square shaft - Selectable direction of rotation - Manual release button - 2 adjustable auxiliary switches - Automatic shut-off at end position - Energy saving at end positions - Actuators available with 1m halogen-free cable - Customized versions available - Devices meet CE requirements

Johnston Part Number	Joventa Part Number	Description		
M9304-AGA-1N	DAN1.N	24c ac/dc	Floating	4Nm
M9304-AGC-1N	DAN1.SN	24c ac/dc	Floating	4Nm (2 aux switch)
M9304-ADA-1N	DAN2.N	230V	Floating	4Nm
M9304-ADC-1N	DAN2.SN	230V	Floating	4Nm (2 aux switch)
M9304-GGA- 1N	DMN1.2N	24V dc	Proportional	4Nm
M9108-AGA-1N	DAS1	24c ac/dc	Floating	8Nm
M9108-AGC-1N	DAS1.S	24c ac/dc	Floating	8Nm (2 aux switch)
M9108-ADA-1N	DAS2	230V	Floating	8Nm
M9108-ADC-1N	DAS2.S	230V	Floating	8Nm (2 aux switch)
M9108-GGA-1N	DMS1.1	24V dc	Proportional	8Nm
M9108-GGC- 1N	DMS1.1S	24V dc	Proportional	8Nm (2 aux switch)
M9116-AGA-1N	DA1	24c ac/dc	Floating	16Nm
M9116-AGC-1N	DA1.S	24c ac/dc	Floating	16Nm (2 aux switch)
M9116-ADA-1N	DA2	230V	Floating	16Nm
M9116-ADC-1N	DA2.S	230V	Floating	16Nm (2 aux switch)
M9116-GGA-1N	DM1.1	24V dc	Proportional	16Nm
M9116-GGC-1N	DM1.1S	24V dc	Proportional	16Nm (2 aux switch)
M9116-GDA-1N	DM2.2	230V dc	Proportional	16Nm
M9116-GDC-1N	DM2.2S	230V dc	Proportional	16Nm (2 aux switch)
M9124-AGA-1N	DAL1	24c ac/dc	Floating	24Nm
M9124-AGC-1N	DAL1.S	24c ac/dc	Floating	24Nm (2 aux switch)
M9124-ADA-1N	DAL2	230V	Floating	24Nm
M9124-ADC-1N	DAL2.S	230V	Floating	24Nm (2 aux switch)
M9124-GGA-1N	DML1.1	24V dc	Proportional	24Nm
M9124-GGC-1N	DML1.1S	24V dc	Proportional	24Nm (2 aux switch)

Johnson Controls

JOVENTA

JOVENTA

Johnston Part Number	Joventa Part Number	Description	
	DBF1.03	24V Floating, run time 150 sec	3Nm
	DAF1.03	24V Floating, run time 60 sec	3 Nm
	DAF1.03S	24V Floating, run time 60 sec	3 Nm, (2 aux switch)
	DMF1.03	24V Proportional, run time 150 sec	3 Nm
	DMF1.03S	24V Proportional, run time 150 sec	3 Nm, (2 aux switch)
	DMF1.03SZ	24V Proportional, run time 90 sec	3 Nm, (2 aux switch)
M9208-AGA- 1	DBF1.08N	24V Floating, run time 150 sec	8 Nm
M9208-AGC- 1	DBF1.08SN	24V Floating, run time 150 sec	8 Nm, (2 aux switch)
M9208-BGA- 1	DAF1.08N	24V On/Off, run time 70 sec	8 Nm
M9208-BGC- 1	DAF1.08SN	24V On/Off, run time 70 sec	8 Nm, (2 aux switch)
M9208-BDA- 1	DAF2.08N	230V On/Off, run time 70 sec	8 Nm
M9208-BDC- 1	DAF2.08SN	230V On/Off, run time 70 sec	8 Nm, (2 aux switch)
	DA1.F	24V On/Off	16 Nm
	DA1.FS	24V On/Off	16 Nm, (2 aux switch)
	DM1.1F	24V Proportional	16Nm
	DM1.1FS	24V Proportional	16 Nm, (2 aux switch)
	DBF1.20S	230V Floating	20 Nm, (2 aux switch)
	DAF2.20	230V On/Off	20 Nm
	DAF2.20S	230V On/Off	20 Nm, (2 aux switch)
	DAF1.20	24V On/Off	20 Nm
	DAF1.20S	24V On/Off	20 Nm, (2 aux switch)
	DMF1.20	24V Proportional	20 Nm
	DMF1.20S	24V Proportional	20 Nm, (2 aux switch)
M9132-AGC- 1N	DAG1.S	230V Floating	32 Nm, (2 aux switch)
M9132-ADC-1N	DAG2.S	230V Floating	32 Nm, (2 aux switch)
Special and Security			
	SA1.12	24V Floating	8Nm
	SA1.12S	24V Floating	8 Nm, (2 aux switch)
M9108-GGA- 1N4	SM1.12	24V Proportional	8 Nm
M9108-GGC- 1N4	SM1.12S	24V Proportional	8 Nm, (2 aux switch)
M9116-AGA- 1N4	SA1.10	24V Floating	16 Nm
M9116-AGC- 1N4	SA1.10S	24V Floating	16 Nm, (2 aux switch)
M9116-GGA- 1N4	SM1.10	24V Proportional	16 Nm
M9116-GGC- 1N4	SM1.10	24V Proportional	16 Nm, (2 aux switch)

BELIMO

Part Number	Description		
LM24A	5 Nm	24V	2- or 3-position
LM24A-S	5 Nm	24V	2- or 3-position c/w aux switch
LM24A-SR	5 Nm	24V	2-10v output
LM230A	5 Nm	230V	2- or 3-position
LM230A-S	5 Nm	230V	2- or 3-position c/w aux switch
NM24A	10 Nm	24V	2- or 3-position
NM24A-S	10 Nm	24V	2- or 3-position c/w aux switch
NM24A-SR	10 Nm	24V	2-10v output
NM230A	10 Nm	230V	2- or 3-position
NM230A-S	10 Nm	230V	2- or 3-position c/w aux switch
SM24A	20 Nm	24V	2- or 3-position
SM24A-S	20 Nm	24V	2- or 3-position c/w aux switch
SM24A-SR	20 Nm	24V	2-10v output
SM230A	20 Nm	230V	2- or 3-position
SM230A-S	20 Nm	230V	2- or 3-position c/w aux switch
GM24A	30 Nm	24V	2- or 3-position
GM24A-SR	30 Nm	24V	2-10v output
GM230A	30 Nm	230V	2- or 3-position

Part Number	Description		
LF24	4 Nm	24V	2-position spring returnw
LF24-S	4 Nm	24V	2-position spring return c/w aux switch
LF24-SR	4 Nm	24V	2-10v output spring return
LF230	4 Nm		2-position spring return
LF230-S	4 Nm		2-position spring return c/w aux switch
NF24A	10 Nm	24V	2-position spring return
NF24A-S2	10 Nm	24V	2-position spring return c/w 2x aux switch
NF24A-SR	10 Nm	24V	2-10v output spring return
NFA	10 Nm	24-240V	2-position spring return
NFA-S2	10 Nm	24-240V	2-position spring return c/w 2x aux switch
SF24A	20 Nm	24V	2-position spring return
SF24A-S2	20 Nm	24V	2-position spring return c/w 2x aux switch
SF24A-SR	20 Nm	24V	2-10v output spring return
SFA	20 Nm	24-240V	2-position spring return
SFA-S2	20 Nm	24-240V	2-position spring return c/w 2x aux switch
GK24A-1	40 Nm	24V	2-position electrical failsafe
GK24A-SR	40 Nm	24V	2-10v output electrical failsafe

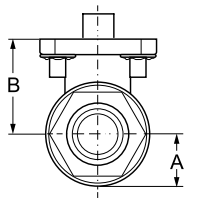
JOHNSON CONTROLS

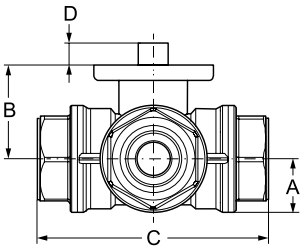
VG1000 SERIES BALL VALVES

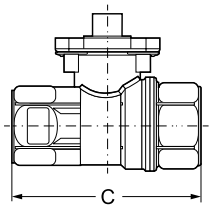
The VG1000 series ball valves are used for the water control of air treatment systems in ventilation and air conditioning units as well as heating systems. They are operated by direct or remote mounted Spring Return and Non-Spring Return actuators by Johnson Controls.

Part Number	Description
VG1205AN	2 Port, DN15, 10 Kvs, PN40
VG1205BN	2 Port, DN20, 10 Kvs, PN40
VG1205CP	2 Port, DN25, 16 Kvs, PN40
VG1205DR	2 Port, DN32, 25 Kvs, PN40
VG1205ES	2 Port, DN40, 40 Kvs, PN40
VG1805AN	3 Port, DN15, 10 Kvs, PN40
VG1805BN	3 Port, DN20, 10 Kvs, PN40
VG1805CP	3 Port, DN25, 16 Kvs, PN40
VG1805DR	3 Port, DN32, 25 Kvs, PN40
VG1805ES	3 Port, DN40, 40 Kvs, PN40

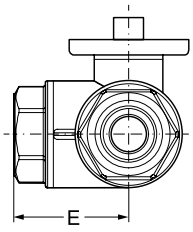
For use with Johnson Controls Proportional and/or Floating & ON/OFF Actuators: M9108- VA9104-VA9203- VA9208-







Two-way Valve



Three-way Valve

Dimensions (in mm)

Body Size	A	B	C	D	E
DN15	17	31	67	9	33
DN20	17	31	75	9	38
DN25	19	33	92	9	46
DN32	26	44	109	9	54
DN40	29	48	119	9	59
DN50	37	53	139	9	7

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VG3000 SERIES TERMINAL UNIT VALVES

The VG3000 brass valve series is primarily designed to regulate the flow of water in response to the demand of a controller in zone and terminal unit applications and features: 2-way PDTC (NO) with 6 bar close off pressure; Extend range of KVS (0.4....6.3); Forged brass body, stainless steel stem, and spring; Actuator can be field installed after piping; And commissioning cap available as accessory (VG3000-CAP)

Part Number	Description			
Threaded Male Connection BSPP				
VG3210ES	2 - way PDTC	DN15	250 KPa	1.6 Kvs
VG3210FS	2 - way PDTC	DN15	250 KPa	2.5 Kvs
VG3210JS	2 - way PDTC	DN20	200 KPa	2.5 Kvs
VG3210KS	2 - way PDTC	DN20	200 KPa	4 Kvs
VG3210LS	2 - way PDTC	DN25	100 KPa	6.3 Kvs
VG3211FS	2 - way PDTC	DN15	600 KPa	2.5 Kvs
VG3211JS	2 - way PDTC	DN20	600 KPa	2.5 Kvs
VG3211KS	2 - way PDTC	DN20	600 KPa	4 Kvs
VG3211LS	2 - way PDTC	DN25	600 KPa	6.3 Kvs
VG3310FS	3 - way Mixing	DN15	250 KPa	2.5 Kvs
VG3310JS	3 - way Mixing	DN20	200 KPa	2.5 Kvs
VG3310KS	3 - way Mixing	DN20	200 KPa	4 Kvs
VG3310LS	3 - way Mixing	DN25	100 KPa	6.3 Kvs
VG3410ES	3 - way by-pass Mixing	DN15	250 Kpa	1.6 Kvs
VG3410FS	3 - way by-pass Mixing	DN15	250 Kpa	2.5 Kvs
VG3410JS	3 - way by-pass Mixing	DN20	250 Kpa	2.5 Kvs
VG3410KS	3 - way by-pass Mixing	DN20	250 KPa	4 Kvs
VG3410LS	3 - way by-pass Mixing	DN25	100 KPa	6.3 Kvs

* Other Kvs available

The valves are available in 2-way, 3-way mixing and 3-way mixing with built-in by-pass configurations

Also available in the following fittings

- Threaded Female Connection BSPP
- Threaded Female Connection NPT
- 1/2" Compression Valves

The following actuators are available for use with VG3000 Valves:

- VA-708x thermal ON/OFF actuator
- VA-709x thermal 0...10 V actuator
- VA-748x electric terminal unit valve actuator

VA708X AND VA709X ACTUATORS

The VA-708x Terminal Unit Actuators Series provide ON/OFF and DAT control, while the VA-709x provides Proportional Control in HVAC applications.

The compact design of these actuators make them suitable for installations in confined spaces, such as fan-coil applications.

Both VA-708x and VA-709x actuators are designed for field mounting onto VG3000 terminal unit valve, and VP1000 pressure independent valves.

Moreover, thanks to an innovative fixing system, the VA-708x is suitable for almost all the terminal unit valves in the market.

VA-708X

Part Number	Description	
VA-7088-21	24 V AC/DC +20% - 10%	ON/OFF
VA-7087-21	24 V AC/DC +20% - 10%	ON/OFF
VA-7081-21	24 V AC/DC +20% - 10%	ON/OFF
VA-7080-21	24 V AC/DC +20% - 10%	ON/OFF
VA-7088-23	230 V AC ± 10%	ON/OFF
VA-7087-23	230 V AC ± 10%	ON/OFF
VA-7081-23	230 V AC ± 10%	ON/OFF
VA-7080-23	230 V AC ± 10%	ON/OFF
VA-7088-21C	24 V AC/DC +20% - 10%	ON/OFF
VA-7088-23C	230 V AC ± 10%	ON/OFF

VA-709X

Part Number	Description			
VA-7097-21	24 VAC	125 N	4.5mm Stroke	Normally open
VA-7098-21	24 VAC	125 N	4.5mm Stroke	Normally closed

VA-748X ACTUATOR

The VA-748x Series provides Floating, Proportional, or Proportional control with 0-10 V position feedback signal, offering a complete portfolio of actuators designed to be field mounted onto terminal unit valves from Johnson Controls or any other brand... thanks to the innovative concept of auto stroke detection, a VA-7480 can be installed over any conventional terminal unit valve or any PICV with variable strokes.

Part Number	Description		
VA-7480-0011	Floating	24 VAC	120 N
VA-7480-0311	Floating	24 VAC	120 N
VA-7481-0011	Floating	24 VAC	120 N
VA-7480-0001	Floating	24 VAC	120 N
VA-7481-0001	Floating	24 VAC	120 N
VA-7480-0201-TA	Floating	24 VAC	140 N
VA-7480-0501-TA	Floating	24 VAC	140 N

VA-748X ACTUATOR

Part Number	Description		
VA-7480-4001	Floating	24 VAC	120 N
VA-7480-4003	Floating	230 VAC	120 N
VA-7480-0013	Floating	230 VAC	120 N
VA-7481-0013	Floating	230 VAC	120 N
VA-7480-0003	Floating	230 VAC	120 N
VA-7481-0003	Floating	230 VAC	120 N
VA-7481-4003	Floating	230 VAC	120 N
VA-7482-1001	Proportional	24 VAC/VDC	120 N
VA-7482-2001	Proportional	24 VAC/VDC	120 N
VA-7482-3001	Proportional	24 VAC/VDC	120 N
VA-7482-1001-RA	Proportional	24 VAC/VDC	120 N
VA-7482-1301-RA	Proportional	24 VAC/VDC	120 N
VA-7482-2001-RA	Proportional	24 VAC/VDC	120 N
VA-7482-0011	Proportional	24 VAC/VDC	120 N
VA-7482-0311	Proportional	24 VAC/VDC	120 N
VA-7482-0312	Proportional	24 VAC/VDC	120 N
VA-7482-2201-TA	Proportional	24 VAC/VDC	140 N
VA-7482-2501-TA	Proportional	24 VAC/VDC	140 N
VA-7482-5001	Proportional	24 VAC/VDC	120 N
VA-7482-6001	Proportional	24 VAC/VDC	120 N
VA-7482-7001	Proportional	24 VAC/VDC	120 N
VA-7482-8201	Proportional	24 VAC/VDC	160 N
VA-7482-9201	Proportional	24 VAC/VDC	160 N
VA-7482-8201-RA	Proportional	24 VAC/VDC	160 N
VA-7482-9201-RA	Proportional	24 VAC/VDC	160 N
VA-7482-8002-RA	Proportional	24 VAC/VDC	160 N
VA-7482-9002-RA	Proportional	24 VAC/VDC	160 N
VA-7483-8201	Proportional	24 VAC/VDC	160 N
VA-7483-9201	Proportional	24 VAC/VDC	160 N
VA-7483-8201-RA	Proportional	24 VAC/VDC	160 N
VA-7483-9201-RA	Proportional	24 VAC/VDC	160 N
VA-7484-8001*	Proportional	24 VAC/VDC	160 N
VA-7484-9001*	Proportional	24 VAC/VDC	160 N
VA-7484-8001-RA*	Proportional	24 VAC/VDC	160 N
VA-7484-9001-RA*	Proportional	24 VAC/VDC	160 N

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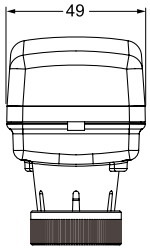

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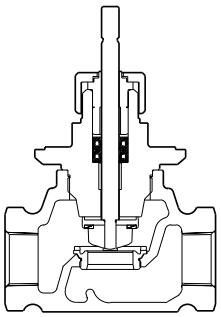


VG 7000 SERIES PLANT VALVES

VG7000 Series Bronze Control Valves are primarily designed to regulate the flow of water and steam in response to the demand of a controller in Heating, Ventilating, and Air Conditioning (HVAC) systems.

These valves are available in Push-Down-To-Close (PDTC), Push-Down-To-Open (PDTO), and 3-way mixing configurations. Both electric and pneumatic actuators are available for factory or field mounting.

Part Number	Description		
2-way PDTC (Normally Open) - Female Thread			
VG7201ET	DN15	8mm Stroke	1.6 Kvs
VG7201LT	DN20	8mm Stroke	6.3 Kvs
VG7201NT	DN25	13mm Stroke	10 Kvs
VG7201PT	DN32	13mm Stroke	16 Kvs
VG7201RT	DN40	19mm Stroke	25 Kvs
VG7201ST	DN50	19mm Stroke	40 Kvs

* Other Kvs available on request
* Stainless steel trim valves available (substitute 3 for 1 in the part number)

Part Number	Description		
3-WAY Mixing Configuration - Female Thread			
VG7802GT	DN15	8mm Stroke	4.0 Kvs
VG7802LT	DN20	8mm Stroke	6.3 Kvs
VG7802NT	DN25	13mm Stroke	10 Kvs
VG7802PT	DN32	13mm Stroke	16 Kvs
VG7802RT	DN40	19mm Stroke	25 Kvs
VG7802ST	DN50	19mm Stroke	40 Kvs

* Other Kvs available on request
* Stainless steel trim valves available (substitute 4 for 2 in the part number)

Following actuators are available for use with VG7000 Valves:
VA-77xx, VA-78xx

VG8000N SERIES PLANT VALVES

The VG8000 series electrically and pneumatically operated nodular iron valves are designed primarily to regulate the flow of water and steam in response to the demand of a controller, in HVAC systems. These valves are available in two-way, three way mixing and diverting configurations. Both electric and pneumatic actuators are available. PN16 rated nodular cast iron body - Large ranges of valves - Fluid temperature 0-180

Part Number	Description			
2-way PDTC (Normally Open)				
VG82F1S1N	DN50	25mm Stroke	PN16	40 Kvs
VG82G1S1N	DN65	25mm Stroke	PN16	63 Kvs
VG82H1S1N	DN80	25mm Stroke	PN16	100 Kvs
VG82J1S1N	DN100	42mm Stroke	PN16	160 Kvs
VG82K1S1N	DN125	42mm Stroke	PN16	250 Kvs
VG82L1S1N	DN150	42mm Stroke	PN16	350 Kvs

*Also available: NC valves (change 2 to 4 in the ordering code). DN15 -40 with Kvs values 0.63 -25.

Part Number	Description	
3-way Mixing Configuration		
VG88F1S1N	DN50 25mm Stroke PN16	40 Kvs
VG88G1S1N	DN65 25mm Stroke PN16	63 Kvs
VG88H1S1N	DN80 25mm Stroke PN16	100 Kvs
VG88J1S1N	DN100 42mm Stroke PN16	160 Kvs
VG88K1S1N	DN125 42mm Stroke	250 Kvs
VG88L1S1N	DN150 42mm Stroke	350 Kvs

Part Number	Description	
3-way Diverting Configuration		
VG89F1S1N	DN50 25mm Stroke PN16	40 Kvs
VG89G1S1N	DN65 25mm Stroke PN16	63 Kvs
VG89H1S1N	DN80 25mm Stroke PN16	100 Kvs
VG89J1S1N	DN100 42mm Stroke PN16	160 Kvs
VG89K1S1N	DN125 42mm Stroke PN16	250 Kvs
VG89L1S1N	DN150 42mm Stroke PN16	350 Kvs

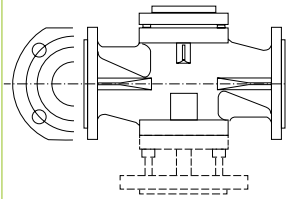
*Glycerine Cup Packing valves are available by adding suffix "20" to the ordering code

Following actuators are available for use with VG8000N Valves:
VA7800, VA1125

VG9000 DN15...100, PN6 AND PN10

These flanged valves are primarily designed to regulate the flow of water and low pressure steam in response to the demand of a controller, in Heating, Ventilating and Air Conditioning (HVAC) systems.

Part Number	Description		
VG94F1S1K	DN50	40 Kvs	2-way PDTO (Normally Closed) configuration
VG94G1S1K	DN65	63 Kvs	2-way PDTO (Normally Closed) configuration
VG94H1S1K	DN80	100 Kvs	2-way PDTO (Normally Closed) configuration
VG94J1S1K	DN100	160 Kvs	2-way PDTO (Normally Closed) configuration



Part Number	Description		
VG98F1S1K	DN50	40 Kvs	3-way mixing configuration
VG98G1S1K	DN65	63 Kvs	3-way mixing configuration
VG98H1S1K	DN80	100 Kvs	3-way mixing configuration
VG98J1S1K	DN100	160 Kvs	3-way mixing configuration

Following electric actuators are available for use with VG9000 valves:
VA-7700 for DN15... DN50 valves
VA7810 for DN15... DN65 valves
VA1125 for DN65... DN100 valves

Johnson Controls

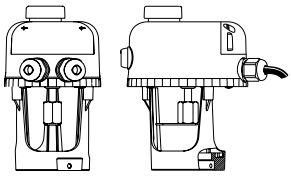
VA-7700 FLOATING AND PROPORTIONAL CONTROL

The VA-7700 series provides Floating and Proportional control and can be mounted onto VG7000, VGS800 and VG9000 valves.

MOUNTING ONTO VG7000 SERIES VALVES

Part Number	Description		
VA-7700-1001	24 VAC	500N	Floating
VA-7700-1003	230 VAC	500N	Floating
VA-7740-1001	24 VAC	500N	Floating
VA-7740-1003	230 VAC	500N	Floating
VA-7706-1001	24 VAC	500N	Proportional
VA-7746-1001	24 VAC	500N	Proportional

MOUNTING ONTO VGS800 AND VG9000 SERIES VALVES



Part Number	Description		
VA-7700-8201	24 VAC	500N	Floating
VA-7700-8203	230 VAC	500N	Floating
VA-7740-8201	24 VAC	500N	Floating
VA-7740-8203	230 VAC	500N	Floating
VA-7706-8201	24 VAC	500N	Proportional
VA-7746-8201	24 VAC	500N	Proportional

VA7810 NON-SPRING RETURN PLANT VALVE ACTUATORS

FLOATING AND PROPORTIONAL CONTROL

The VA7810 Non Spring Return Actuator with 1000 N thrust for valves in heating, ventilation and air conditioning applications is available for Floating or Proportional control. All models have manual override as standard and provide stroke capabilities of 7 mm to 25 mm. Proportional models are self-calibrating.

The actuator is intended for use with Johnson Controls VG7000 and VGS800 threaded valves as well as VG8000 and VG9000 flanged valves. All valves should be fitted in accordance with the maximum close-off pressure ratings specified. Valve/actuators can be ordered as separate units or as a factory fitted valve/actuator combinations.

MOUNTING ONTO VG7000 AND VGS800 THREADED VALVES

Part Number	Description		
VA7810-ADA-11	230 VAC	1000N	ON/OFF or Floating
VA7810-ADC-11	230 VAC	1000N	ON/OFF or Floating
VA7810-AGA-11	24 VAC	1000N	ON/OFF or Floating
VA7810-AGC-11	24 VAC	1000N	ON/OFF or Floating
VA7810-AGH-11	24 VAC	1000N	ON/OFF or Floating
VA7810-GGA-11	24 VAC	1000N	ON/OFF or Floating or Proportional
VA7810-GGC-11	24 VAC	1000N	ON/OFF or Floating or Proportional

MOUNTING ONTO VG8000 AND VG9000 FLANGED VALVES

Part Number	Description		
VA7810-ADA-12	230 VAC	1000N	ON/OFF or Floating
VA7810-ADC-12	230 VAC	1000N	ON/OFF or Floating
VA7810-AGA-12	24 VAC	1000N	ON/OFF or Floating
VA7810-AGC-12	24 VAC	1000N	ON/OFF or Floating
VA7810-AGH-12	24 VAC	1000N	ON/OFF or Floating
VA7810-GGA-12	24 VAC	1000N	ON/OFF or Floating or Proportional
VA7810-GGC-12	24 VAC	1000N	ON/OFF or Floating or Proportional

Johnson Controls

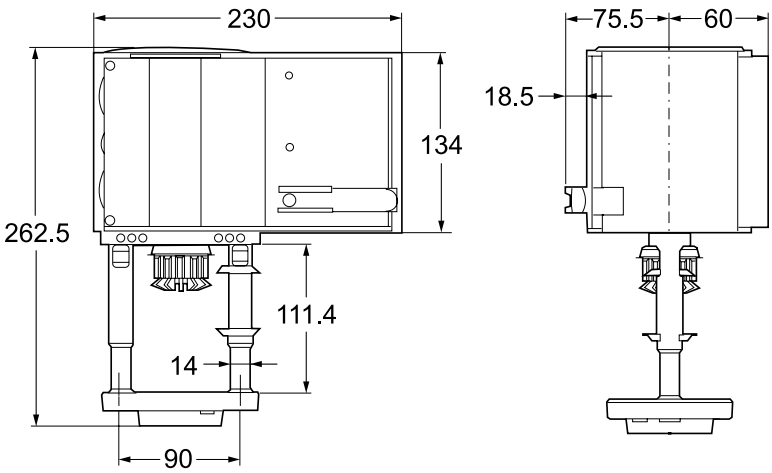
VA1125 NON-SPRING RETURN PLANT VALVE ACTUATORS

The VA1125 Valve Actuators are used to control Valves in HVAC systems. They are of modular construction so that the required type of control signal is achieved simply by fitting a module with the required function in-situ. It can be mounted onto VG8000, VG8300 and VG9000 series valves.

Part Number	Description			
VA1125-GGA-1	24 VAC	2500N	Non-Spring Return	IP66

ACCESSORIES MODULES FOR ON SITE INSTALLATION

Part Number	Description
VA1000-M230N	230 VAC module
VA1000-P2	2 KΩ feedback potentiometer
VA1000-S2	2 SPDT auxiliary switches
VA1000-EP	Extension kit for applications with temperatures greater than 140 °C up to 200 °C



Johnson Controls

PRESSURE INDEPENDENT CONTROL VALVES

The VP1000 Pressure Independent Control Valve is a combination of a differential pressure regulator and a regulating valve for flow adjustment.

THE VP1000 Valve allows to adjust the flow rate also in case of partial load of the system and it always ensures a stable adjustment of the supply connected to it. The differential pressure regulator corrects any differential pressure variation. This leads to a considerable reduction in temperature variations and adjustment movements and to the extension of the life of the moving devices connected to it.

COMPACT & AXIAL VALVES

Part Number	Description		
VP100HAA	DN 15	150 l/h	Int screwed
VP100HDE	DN 15	600 l/h	Int screwed
VP100HDC	DN 15	780 l/h	Int screwed
VP100JAJ	DN 20	1000 l/h	Int screwed
VP100J	DN 20	1500 l/h	Int screwed
VP100CAU	DN 25	2200 l/h	Int screwed
VP100CAW	DN 25	2700 l/h	Int screwed
VP100DAW	DN 32	2700 l/h	Int screwed
VP100DAY	DN 32	3000 l/h	Int screwed

T90 - Also available with Pressure Port. (Change VP101 to VP100 in Part Number)

Following actuators are available:
VA-708x ON/OFF thermal / VA-709x thermal 0...10 VDCl / VA-748x floating and proportional electric

BALL TYPE VALVES

Part Number	Description		
VP101DBB	DN 40	6001 l/h	Int screwed
VP101EBB	DN 40	6001 l/h	Int screwed
VP101EBD	DN 40	11001 l/h	Int screwed
VP101EBC	DN 50	12000 l/h	Int screwed
VP101FBD	DN 50	12000 l/h	Int screwed
VP101FBF	DN 50	12000 l/h	Int screwed
VP101GBF	DN 55	18000 l/h	Ext screwed

Following actuators are available:
M9108- / VA9310 / VA9208
See Rotary/Damper Actuators

VAP1000-24-C AND VAP3000-24-C ACTUATORS

Actuators	Description	
VAP600S-24-C	24 Vac	600N
VAP1000S-24-C	24 Vac	1000N
VAP1000L-24-C	24 Vac	1000N
VAP3000-24-C	24 Vac	3000N

VPMA SERIES – PICV

The VPMA series Pressure Independent Control Valve is a combination of a differential pressure regulator and a regulating valve for flow adjustment. Replacement for discontinued VPA PICV. Use VPMA with VAP Series electric actuator.

Features

- PN16
- Ductile Iron
- Kvs calculation is not necessary. Flow rate is the only parameter to consider.
- 2 Way Push-Down-To-Close (PDTC, normally open) configuration
- Fluid temperature: water -10 to 120 °C
- Equal percentage flow characteristic
- Leakage: < 0.01% (Class IV)
- Operating pressure drop: 500 kPa max
- Pressure ports

In combination with VAP actuator, it automatically limits the water flow rate, irrespective of pressure and allows precise modulating control, therefore avoiding too high energy consumption.

Since VPMA valve performs the functions of two valves (balancing and adjustment), the installation costs are considerably reduced. Since it is not necessary to adjust the valve after installation, system adjustment costs are eliminated.

Actuators	DN	Flow rate Max. (m3/h)	Stroke (mm)	Start-up ΔP (kPa)	Pressure Ports	Actuators
VPMA6065P-C	DN65	21	20	35	Yes	VAP600S-24-C
VPMA6080P-C	DN80	28	40			VAP1000L-24-C
VPMA6100P-C	DN100	50	40			VAP1000L-24-C
VPMA6125P-C	DN125	90	40			VAP1000L-24-C
VPMA6150P-C	DN150	145	40			VAP1000L-24-C
VPMA6200P-C	DN200	208	40			VAP3000L-24-C
VPMA6250P-C	DN250	240	40			VAP3000L-24-C

VFB BUTTERFLY VALVES

VFB butterfly valves series are specifically designed for a wide range of Heating, Ventilating, and Air Conditioning (HVAC) applications, including two-position and modulating control of hot, chilled, or condenser water, and 50/50 glycol solutions. All valves are factory tested for bubble-tight shutoff at 100% of the fully-rated pressure. These valves are also bidirectional, allowing positive shutoff with the flow in either direction, and can be used with M9000 actuators and the necessary linkage.

Actuators	Description		
VFB025H	DN 25	52 Kvs	1000 kPa
VFB032H	DN 32	72 Kvs	1000 kPa
VFB040H	DN 40	126 Kvs	1000 kPa
VFB050H	DN 50	124 Kvs	1200 kPa
VFB065H	DN 65	243 Kvs	1200 kPa
VFB080H	DN 80	397 Kvs	1200 kPa
VFB100H	DN 100	723 Kvs	1200 kPa
VFB125H	DN 125	1083 Kvs	1200 kPa
VFB150H	DN 150	1591 Kvs	1200 kPa
VFB200H	DN 200	2852 Kvs	1200 kPa
VFB250H	DN 250	4670 Kvs	1200 kPa
VFB300H	DN 300	6946 Kvs	1200 kPa
VFB350H	DN 350	9063 Kvs	1000 kPa

Low Pressure Close-off also available

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