Outdoor temperature sensor with optional sun/rain protection

DIGICONTROL F-ATF-T

Data sheet number 81003

The sensor F-ATF-T in the hinged cover housing USE is suitable for outdoor temperature measurement, in refrigerated warehouses and greenhouses as well as in production halls and warehouses.

TECHNICAL DATA

Measuring range	Temperature: -35...+90 °C
Sensor	Pt1000
Electrical connection	Removable plug-in terminal, max. 2.5 mm²
Accuracy	typ. +/- 0,3 K (typ. at 21 °C)
Housing	USE-S housing, PC, pure white, UV-resistant
Protection class	IP65 according to EN60529
Ambient temperature	-35...+90 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	Cable inlet: Flextherm M20, for cables with 4.5...9 mm diameter, removable

TYPE

F-ATF-T

Outdoor humidity and temperature sensor

DIGICONTROL F-AFTF-T

Data sheet number 81052

The F-AFTF-T is used for measuring humidity and temperature outdoors. As delivered, the sensor is designed to measure temperature and relative humidity. Alternatively, absolute humidity, enthalpy or dew point can also be measured.

TECHNICAL DATA

Voltage	15...24 V DC (+/- 10 %) or 24 V AC (+/- 10 %)
Outputs	2x 0...10 V or 0...5 V, adjustable via jumper, min. load 10 kΩ
Measuring range	Temperature: -20...+80 / 0...+50 / -40...+60 / -15...+35 °C Relative humidity: 0...100 % rH without condensation Absolute humidity: 0...50 / 0...80 g/m³ Enthalpy: 0...85 kJ/kg Dew point: 0...50 / -20...+80 °C
Electrical connection	Removable plug-in terminal, max. 2.5 mm²
Accuracy	Temperature: +/- 0.3 K (typ. at 21 °C in standard measuring range) Humidity: +/- 2 % between 10...90 % rH (typ. at 21 °C)
Housing	USE-M housing, PC, pure white, UV-resistant
Protection class	IP65 according to EN60529
Operating temperature	-20...+70 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	Cable entry: Flextherm M20, for cables with 4.5...9 mm diameter, removable Filter element: stainless steel wire mesh

TYPE

F-AFTF-T

Contact temperature sensor

DIGICONTROL F-ALTF-T

Data sheet number 81012

The F-ALTF-T in the hinged cover housing USE for measuring the temperature on pipes and curved surfaces. The measuring element is pressed onto the measuring surface by a spring mechanism to achieve direct contact and fast response. Designed for connection to controller and display systems.

TECHNICAL DATA

Measuring range	Temperature: -35...+90 °C
Sensor	Passive, PT1000, 2-wire
Electrical connection	Removable plug-in terminal, max. 2.5 mm²
Accuracy	typ. +/- 0,3 K (typ. at 21 °C)
Housing	USE-S enclosure, PC, pure white
Protection class	IP65 according to EN60529
Ambient temperature	-35...+90 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	Cable inlet: Flextherm M20, for cables with 4.5...9 mm diameter, removable Sleeve: brass, spring-loaded sensor contact

TYPE

F-ALTF-T

Room temperature sensor

DIGICONTROL F-RTF-T

Data sheet number 81032

The living room sensor is used to detect the room temperature. The sensor creates the prerequisite for a pleasant room climate and well-being. Typical areas of applications are school, office buildings, hotels, or cinemas.

TECHNICAL DATA

Measuring range	Temperature: -35...+70 °C
Sensor	Passive, PT1000, 2-wire
Electrical connection	Tool-free mountable spring clamp terminal, max. 1.5 mm²
Accuracy	±0,3 K (typ. at 0 °C, Kl.B)
Housing	PC V0, pure white
Protection class	IP20 according to EN60529
Operating temperature	-35...+70 °C
Ambient humidity	Max. 85 % rh. (non-condensing)
Other remarks	Cable inlet: opening on rear side, predetermined breaking points on bottom side, drill mark on top side

TYPE

F-RTF-T

Room control unit temperature

DIGICONTROL F-RTFS-T

Data sheet number 81042

The room control unit with setpoint adjuster is used to detect the room temperature. The sensor creates the prerequisite for a pleasant room climate and well-being. Typical areas of application are schools, office buildings, hotels, or cinemas.

TECHNICAL DATA

Measuring range	Temperature: -35...+70 °C
Sensor	Passive, PT1000, 2-wire
Electrical connection	Tool-free mountable spring clamp terminal, max. 1.5 mm²
Accuracy	±0,3 K (typ. at 0 °C, Kl.B)
Housing	PC V0, pure white
Protection class	IP20 according to EN60529
Operating temperature	-35...+70 °C
Ambient humidity	Max. 85 % rh. (non-condensing)
Other remarks	Setpoint adjuster: Potentiometer, 3-wire connection, standard value 10 kΩ, nominal load 0.25 W Calbe inlet: Opening on rear side, predetermined breaking points on bottom side, drill mark on top side

TYPE

F-RTFS-T

Mean value temperature sensor

DIGICONTROL F-MWTF...-T

Data sheet number 81092

The duct mean value sensor in the hinged cover housing is used to record the average temperature (mean value) for temperature stratification in gaseous media. The sensor records the temperature value evenly over the entire length. Mounting brackets for duct mounting are included in the scope of delivery. A spring on the connection head serves as bend protection to reduce vibrations.

TECHNICAL DATA

Outputs	passive, PT1000
Electrical connection	Removable plug-in terminal, max. 2.5 mm²
Accuracy	DIN Class B
Housing	USE-S enclosure, PC, pure white
Protection class	IP65 according to EN60529
Operating temperature	-50...+80 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	Cable inlet: Flextherm M20, for cables with 4.5...9 mm diameter, removable

TYPE LIST

TYPE	NOMINAL LENGTH
F-MWTF3-T	3000 mm
F-MWTF6-T	6000 mm

Duct/immersion temperature sensor

DIGICONTROL F-KATF...-T

Data sheet number 81026

The duct/immersion sensor is used for temperature measurement in gaseous media of heating, ventilation, and air conditioning systems. In combination with an immersion sleeve, it is also suitable for measuring in liquid media (e.g., piping systems).

TECHNICAL DATA

Measuring range	Temperature: -50...+120 / +150 / +160 °C, depending on the sensor used
Sensor	Pt1000
Electrical connection	Removable plug-in terminal, max. 2.5 mm²
Accuracy	typ. +/- 0.3 K (typ. at 21 °C), depending on the applied sensor used
Switching	Two conductor connection
Housing	USE-S housing, PC, pure white, UV-resistant
Protection class	IP65 according to DIN EN 60529, SI-Protection
Operating temperature	-35...+90 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	Cable inlet: Flextherm M20, for cables with 4.5...9 mm diameter, removable sleeve: stainless steel V4A, 6 mm diameter

TYPE LIST

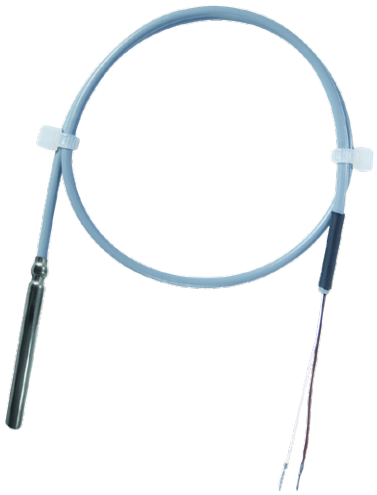
TYPE	INSTALL. LENGTH
F-KATF100-T	100 mm
F-KATF150-T	150 mm
F-KATF200-T	200 mm
F-KATF250-T	250 mm
F-KATF300-T	300 mm
F-KATF450-T	450 mm

Cable temperature sensor

DIGICONTROL F-KTF-T

Data sheet number 81022

The cable sensor is used for temperature measurement in gaseous media of heating, ventilation, and air conditioning systems (e.g., in supply air/exhaust air ducts). In combination with an immersion sleeve, it is also suitable for measuring in liquid media (e.g. piping systems).



TECHNICAL DATA

Measuring range	Temperature: -35...+100 °C
Sensor	Pt1000
Switching	Two conductor connection
Sensor	PVC
Protection class	SI-Protection IP65 according to EN 60529, 16-fold segment deformed
Operating temperature	-35...+100 °C
Other remarks	Sleeve: stainless steel V4A, Mat. 1.4571, 6 mm diameter, 2 m length

TYPE

F-KTF-T

Duct/immersion temperature sensor

DIGICONTROL F-ROF...-T

Data sheet number 81081

The duct/immersion sensor is suitable for temperature measurement in gaseous media of heating, ventilation, and air conditioning plants. In combination with an immersion sleeve, it is also suitable for measurement in liquid media (e.g., piping systems).

TECHNICAL DATA

Sensor	Passive, PT1000, 2-wire
Electrical connection	Removable plug-in terminal, max. 2.5 mm²
Accuracy	Typ. ±0,3 K (typ. at 21 °C)
Housing	USE-S housing, PC, pure white, UV-resistant
Protection class	IP65 according to DIN EN 60529, SI-Protection
Operating temperature	-50...+160 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	Cable inlet: Flextherm M20, for cables with 4.5...9mm diameter Sleeve: stainless steel V4A, 6 mm diameter, length 50 mm

TYPE LIST

TYPE	INSTALL. LENGTH
F-ROF250-T	50-250 mm
F-ROF450-T	300-450 mm

Immersion sleeves

DIGICONTROL T-THM...-T | T-THN...-T

Data sheet number 81110

Immersion sleeves with compression fitting for duct/immersion temperature sensors F-KATF...-T and cable temperature sensors F-KTF-T for mounting in pipes and vessels.

TECHNICAL DATA

Mounting Internal thread G 1/2”

TYPE LIST

TYPE	FLOW SPEED	OPERATING PRESSURE	INSTALL. LENGTH	AMBIENT TEMPERATURE
T-THM100-T	Max. 11.2 m/s	16 bar	100 mm	At 130 °C
T-THM150-T	Max. 7.1 m/s	16 bar	150 mm	At 130 °C
T-THM200-T	Max. 3.9 m/s	16 bar	200 mm	At 130 °C
T-THM250-T	Max. 2.5 m/s	16 bar	250 mm	At 130 °C
T-THM300-T	Max. 1.5 m/s	16 bar	300 mm	At 130 °C
T-THM450-T	Max. 0 m/s	16 bar	450 mm	At 130 °C
T-THN100-T	Max. 13.0 m/s	40 bar	100 mm	At 200 °C
T-THN150-T	Max. 8.3 m/s	40 bar	150 mm	At 200 °C
T-THN200-T	Max. 5.4 m/s	40 bar	200 mm	At 200 °C
T-THN250-T	Max. 3.4 m/s	40 bar	250 mm	At 200 °C
T-THN300-T	Max. 2.3 m/s	40 bar	300 mm	At 200 °C
T-THN450-T	Max. 0 m/s	40 bar	450 mm	At 200 °C

Screw-in temperature sensor

DIGICONTROL F-AGF-T

Data sheet number 81072

Screw-in immersion sensor for measuring especially higher temperatures in liquid and gaseous media of heating, ventilation, and air conditioning systems as well as in exhaust gas systems. Equipped with neck tube. Designed for connection to controller and display systems.

TECHNICAL DATA

Measuring range	Temperature: 0...+600 °C
Operating pressure	40 bar
Sensor	Pt1000
Electrical connection	Screw terminals max. 1.5 mm²
Accuracy	+/- 0,3 K (typ. at 0 °C, Class B)
Switching	Three conductor connection
Housing	Form B, aluminum Neck tube: stainless steel V2A Sleeve: stainless steel V4A, diameter 9 mm, thread 1/2”
Protection class	IP66 according to DIN 60529
Ambient temperature	-35...+90 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	Cable entry: M20, for cables with 8 mm diameter

TYPE

F-AGF-T

Outdoor brightness sensor

DIGICONTROL F-AHF-T

Data sheet number 81202

The F-AHF-T is used to measure the illuminance. The brightness sensor is optimally adapted to the spectral sensitivity of the human eye.

TECHNICAL DATA

Voltage	15...35 VDC oder 19...29 VAC
Outputs	Illuminance: 0...10 Volt
Measuring range	0...200 Lux, 0...1000 Lux (Standard), 0...2 kLux, 0...10 kLux, 0...20 kLux, 0...50 kLux, adjustable on the device
Power consumption	0.6 W
Sensor	Ambient light sensor with precise optical filtering that corresponds to the human eye
Electrical connection	Removable plug-in terminal, max. 2.5 mm²
Accuracy	Typ. +/- 5 % of measured value
Housing	USE-M housing, PC, pure white, cover PC, translucent
Protection class	IP65 according to EN60529
Ambient temperature	-30...+70 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	Cable inlet: Flextherm M20, for cables with 4.5...9 mm diameter, removable

TYPE

F-AHF-T

Room air quality sensor

DIGICONTROL F-RLQ-T

Data sheet number 81211

The F-RLQ-T is used to detect the mixed gas content. The maintenance-free sensor creates the prerequisite for a pleasant room climate. Typical areas of applications are schools, office buildings, hotels, cinemas or similar.

TECHNICAL DATA

Voltage	15...35 VDC oder 19...29 VAC
Outputs	0..10 V, min load 10 kΩ
Power consumption	Typ. 0.4 W (24 V =) | 0.8 VA (24 V ~)
Sensor	VOC sensor (heated metal oxide semiconductor)
Electrical connection	Tool-free mountable spring clamp terminal, max. 1.5 mm²
Housing	PC V0, pure white
Protection class	IP20 according to EN60529
Operating temperature	0...+50 °C
Ambient humidity	Max. 85 % rh. (non-condensing)
Other remarks	Calibration: self-calibration Cable inlet: opening on rear side, predetermined breaking points on bottom side, drill mark on top side

TYPE

F-RLQ-T

Duct air quality sensor

DIGICONTROL F-KLQ-T

Data sheet number 81225

The duct air quality sensor is used to detect the VOC content. An analogue 0...10 V output is available for direct connection to a DDC or a monitoring system.

TECHNICAL DATA

Voltage	15...35 VDC oder 19...29 VAC
Outputs	0..10 V, min load 10 kΩ
Flow speed	min. 0.3 m/s, max. 12 m/s
Power consumption	max. 2.3 W (24 V =) | 4.3 VA (24 V ~)
Sensor	VOC sensor (heated metal oxide semiconductor)
Electrical connection	Removable plug-in terminal, max. 2.5 mm²
Housing	USE-M housing, PC, pure white
Protection class	IP65 according to EN60529
Operating temperature	0...+50 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	Calibration: self-calibration, dual channel Cable inlet: Flextherm M20 for cables with 4.5...9 mm diameter Sensor tube: PA6, black, 19.5 mm diameter

TYPE

F-KLQ-T

Room - CO2 and temperature sensor

DIGICONTROL F-RCO2T-T

Data sheet number 82217

The F-RCO2T-T is used to detect the CO2 content and the temperature. The maintenance-free sensor creates the conditions for a pleasant indoor climate. Typical areas of application are schools, office buildings, hotels, or cinemas.

TECHNICAL DATA

Voltage	15...35 VDC oder 19...29 VAC
Outputs	2x 0...10 V, min load 10 kΩ
Measuring range	CO2: 0...2000 ppm Temperature: 0...50 °C
Power consumption	Typ. 0.4 W (24 V =) | 0.8 VA (24 V ~)
Sensor	NDIR (non-dispersive, infrared)
Electrical connection	Tool-free mountable spring clamp terminal, max. 1.5 mm^2
Accuracy	CO2: ± 50 ppm +3 % of reading (typ. at 21 °C, 50% rH, 1015 hPa) Temperature: ± 0,5K (typ. at 21 °C)
Housing	PC V0, pure white
Protection class	IP20 according to EN60529
Operating temperature	0...+50 °C
Ambient humidity	Max. 85 % rh. (non-condensing)
Other remarks	Calibration: CO2 self-calibration, dual channel Cable inlet: rear opening, predetermined breaking points on bottom side, drill mark on top side

TYPE

F-RCO2T-T

Room - CO2, temperature, and humidity sensors

DIGICONTROL F-RCO2TF-T

Data sheet number 82218

The F-RCO2TF-T is used to detect the CO2 content as well as the temperature and room humidity. The maintenance-free sensor creates the conditions for a pleasant room climate. Typical areas of applications are schools, office buildings, hotels, or cinemas.

TECHNICAL DATA

Voltage	15...35 VDC oder 19...29 VAC
Outputs	3x 0...10 V, min load 10 kΩ
Measuring range	CO2: 0...2000 ppm Temperature: 0...+ 50°C Humidity: relative humidity 0...100 % rH, enthalpy 0...85 KJ/kg, absolute humidity 0...50 / 0...80 g/m³, dew point 0...+50 / -20...+80 °C
Power consumption	Typ. 0.4 W (24 V =) | 0.8 VA (24 V ~)
Sensor	NDIR (non-dispersive, infrared)
Accuracy	CO2: ± 50 ppm +3 % of reading (typ. at 21 °C, 50% rH, 1015 hPa) Temperature: ± 0,5K (typ. at 21 °C) Humidity: ± 2% between 10..90% rH (typ. at 21 °C)
Housing	PC V0, pure white
Protection class	IP20 according to EN60529
Operating temperature	0...+50 °C
Ambient humidity	Max. 85 % rh. (non-condensing)
Other remarks	Calibration: CO2 self-calibration, dual channel Cable inlet: rear opening, predetermined breaking points on bottom side, drill mark on top side

TYPE

F-RCO2TF-T

Duct air quality sensor

DIGICONTROL F-KCO2T-T

Data sheet number 81224

The duct air quality sensor is used to detect the CO2 content. An analogue 0...10 V output is available for direct connection to a DDC or a monitoring system.

TECHNICAL DATA

Voltage	15...35 VDC oder 19...29 VAC
Outputs	0..10 V, min load 10 kΩ
Measuring range	CO2: 0...2000 ppm
Flow speed	min. 0.3 m/s, max. 12 m/s
Power consumption	max. 2.3 W (24 V =) | 4.3 VA (24 V ~)
Sensor	NDIR (non-dispersive, infrared)
Electrical connection	Removable plug-in terminal, max. 2.5 mm²
Accuracy	CO2: +/- 50 ppm +3 % of reading (typ. at 21 °C, 50 % rH)
Housing	USE-M housing, PC, pure white
Protection class	IP65 according to EN60529
Operating temperature	0...+50 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	Calibration: self-calibration, dual channel Cable inlet: Flextherm M20 for cables with 4.5...9 mm diameter, removable sensor tube: PA6, black, 19.5 mm diameter

TYPE

F-KCO2T-T

Motion detector

DIGICONTROL F-RB-T

Data sheet number 81242

The F-RB-T motion detector detects movements of people and switches a relay contact for lighting control or for lowering the temperature of empty rooms.

TECHNICAL DATA

Voltage	15..24 V = (±10%) or 24 V ~ (±10%)
Outputs	No contact, potential-free for 24 V, load max. 1 A (ohmic), with follow-up time of approx. 8 seconds
Detection range	Conical, aperture angle 110°/93° (H/V), range 10 m, 80 measuring zones. At a distance of 2.8 m, this results in a detection area of approx. 1x5 m.
Power consumption	max. 0.5 W (24 V =) | 1.1 VA (24 V ~)
Sensor	PIR (passive infrarot)
Electrical connection	Screw terminals max. 1.5 mm²
Mounting	Wall mounting, AP
Housing	PC, pure white
Protection class	IP30 according to EN60529
Operating temperature	-20...+50 °C
Ambient humidity	Max. 85 % rh. (non-condensing)
Other remarks	Cable inlet: predetermined breaking point at top/ bottom opening at rear side

TYPE

F-RB-T

Ceiling multisensor

DIGICONTROL F-LS-T

Data sheet number 81252

The brightness sensor for ceiling installation detects the amount of indoor or outdoor light in living reems, offices, or workplaces. The brightness sensor is optimally adapted to the spectral sensitivity of the human eye and is used together with downstream controller systems for demand-responsive light or sun protection control. The remote sensor is connected to the connection housing via a conventional RJ45 cable and can thus be easily mounted in places that are difficult to access. If 2 sensors are used, the average, min or max value from both brightness signals can be output in addition to the individual values.

TECHNICAL DATA

Voltage	15...35 VDC oder 19...29 VAC
Outputs	0..10 V or 0..5 V, adjustable via jumper, min. load 10 kΩ
Power consumption	Typ. 0.6 W (24 V =) / 1.5 VA (24 V ~)
Sensor	Ambient light sensor with precise optical filtering that corresponds to the human eye
Electrical connection	Removable plug-in terminal, max. 2.5 mm²
Accuracy	± 5% of measuring range
Housing	USE-M housing, PC, pure white
Protection class	IP65 according to EN60529
Operating temperature	-30...+70 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	Prism: Acrylic glass, clear, straight (mainly for interior light) Cable entry: Flextherm M20, for cable with 4.5...9 mm diameter, removable Sensor cable length 1.5 m (standard), max. 10 m RJ45 plug

TYPE

F-LS-T

Ceiling multisensor 360°

DIGICONTROL F-RBH-T

Data sheet number 81232

The F-RBH-T ceiling multisensor with motion detection and light measurement is used to implement constant light control in indoor spaces. By detecting the presence of people, energy-efficient light control or temperature reduction iin empty rooms can be implemented. Due to its flat design, the device is suitable for discreet installation in suspended ceilings.

TECHNICAL DATA

Voltage	15..24 V = (±10%) or 24 V ~ (±10%)
Outputs	■ Light: 1x 0...10 V, min. load 10 kΩ ■ Movement: 1x NO contact potential-free max. 24 V / 1 A, with follow-up time ■ Movement: 1 second...30 minutes, adjustable on the device
Measuring range	0...1000 Lux
Detection range	Conical, aperture angle 105°, range > 5 m, 444 measuring zones. With a ceiling height of 2.7 m, this results in a circular detection area with a diameter of approx. 7.0 m.
Power consumption	typ. 1,5 W (24 V =) | 4 VA (24 V ~)
Sensor	PIR (passive infrarot)
Electrical connection	Screw terminals max. 1.5 mm²
Accuracy	+/- 50 Lux
Mounting	Surface mounting
Housing	ABS, pure white
Protection class	IP20 according to EN60529
Operating temperature	0...+50 °C
Ambient humidity	Max. 85 % rh. (non-condensing)

TYPE

F-RBH-T

Room sensor for temperature and humidity

DIGICONTROL F-RFTF-T

Data sheet number 81262

The F-RFTF-T is used to detect the room temperature and the room humidity. The maintenance-free sensor creates the prerequisite for a pleasant room climate. Typical areas of applications are schools, office buildings, hotels, and cinemas.

TECHNICAL DATA

Voltage	15...35 VDC oder 19...29 VAC
Outputs	2x 0...10 V, min load 10 kΩ
Measuring range	Temperature: 0...+ 50°C Humidity: relative humidity 0...100 % rH
Power consumption	Typ. 0.4 W (24 V =) | 0.8 VA (24 V ~)
Electrical connection	Tool-free mountable spring clamp terminal, max. 1.5 mm^2
Accuracy	Temperature: typ. ±0,5K (typ. at 21 °C) Humidity: ± 2 % between 10..90% rH (typ. at 21 °C)
Housing	PC V0, pure white
Protection class	IP20 according to EN60529
Operating temperature	-35...+70 °C
Ambient humidity	Max. 85 % rh. (non-condensing)
Other remarks	Cable inlet: opening on rear side, predetermined breaking points on bottom side, drill mark on top side

TYPE

F-RFTF-T

Duct sensor for humidity and temperature

DIGICONTROL F-KFTF-T

Data sheet number 81272

The duct humidity sensor is used to measure humidity and temperature in gaseous media of heating, ventilation, and air-conditioning plants (e.g., in supply/exhaust air plants).

TECHNICAL DATA

Voltage	15..24 V = (±10%) or 24 V ~ (±10%)
Outputs	2x 0..10 V or 0..5 V, adjustable via jumper, min. load 10 kΩ
Measuring range	Temperature: -20...+80 / 0...+50 / -40...+60 / -15...+35 °C Relative humidity: 0...100 % rH without condensation Absolute humidity: 0...50 / 0...80 g/m³ Enthalpy: 0...85 kJ/kg Dew point: 0...50 / -20...+80 °C
Flow speed	Max. 12 m/s
Power consumption	Typ. 0.4 W (24 V =) | 0.8 VA (24 V ~)
Electrical connection	Removable plug-in terminal, max. 2.5 mm²
Accuracy	+/- 0,3 K (typ. at 21 °C in standard measuring range +/- 2 % between 10...90 % rH (typ. at 21 °C)
Housing	USE-S enclosure, PC, pure white
Protection class	IP65 according to EN60529
Operating temperature	-20...+70 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	Cable inlet: Flextherm M20, for cables with 4.5...9 mm diameter Sensor tube: PA6, black, 19.5 mm diameter

TYPE

F-KFTF-T

Optical smoke switch for room monitoring

DIGICONTROL R-RS142

Data sheet number 81280

The R-RS142 optical smoke switch reacts promptly to smouldering fires as well as to flaming fires that develop smoke. An additional temperature sensor is triggered at an ambient temperature of 70 °C. The R-RS142 operates on the light scatter principle. lnside the sensing chamber a light source and a light sensor are arranged so that the light normally does not fall on the sensor. It is only when airborne particles enter the chamber that light is scattered onto the sensor. The R-RS142 electronic circuitry also monitors the smoke detection system for slight contamination (dust and dirt build-up), heavy contamination and faults (sensing chamber failure). LEDs provide an optical indication of the operating status of the R-RS142. A long-term compensation function automatically maintains a constant difference between the quiescent signal and the alarm threshold, until a set limit indicating heavy contamination is reached. A relay contact opens in the alarm state or on power failure.

TECHNICAL DATA

Voltage	max. 30 V DC
Relay	Potential-free NC contact
Switching capacity	Max. 30 W
Nominal current	max. 1 A
Current consumption	At 28 V DC: max. 21 mA quiescent / max. 10 mA in Alarm / max. 25 mA in fault
Operating threshold	Smoke according to EN 54, Part 7
Function	The R-RS142 signals its functional status via pin 3 to an RS-ZA142 smoke switch status indicator, whose coloured LEDs give an additional remote optical indication of the instrument's condition.
Weight	120 g
Housing	White RAL 9010
Protection class	IP42
Operating temperature	-20...+60 °C
Standards/rules/guidelines/ approvals	DiBT approval for hold-open systems: Z-6.5-1571 and Z-6.5-1725

TYPE

R-RS142

ACCESSORY

TYPE	DESCRIPTION	
R-RS-11S143A	Universal base for surface-mounted and bracket installation in dry areas	
R-RS-11S143AF	Base for surface-mounted and bracket installation in damp areas	

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ACCESSORY

TYPE	DESCRIPTION	
R-RS-11S143UH	Base for installation in hollow ceilings, with masking ring.	
R-RS-ZA142-AP	The smoke switch status indicator RS-ZA142-AP displays the states of the connected smoke switches and transfers this information to a superordinate system. Design: surface mounting	

Smoke switch system for ventilation duct monitoring

DIGICONTROL R-LRS01

(incl. smoke switch R-ORS210)

Data sheet number 81286

By using the ventilation smoke switch system R-LRS01, smoke can be detected at an early stage. The propagation of smoke in the ventilation system is prevented due to the timely detection. The R-LRS01 can be used in ducts with rectangular and round cross-sections. It is designed for the field of application within buildings.

TECHNICAL DATA

Voltage	max. 30 V DC
Relay	Potential-free NC contact
Nominal current	max. 1 A
Current consumption	At 28 V DC: 22 mA quiescent / 11 mA in alarm / 16 mA in fault
Operating threshold	According to construction testing and principles for smoke triggers installations (12/76)
Function	The R-LRS01 is RS-Bus capable and compatible with the smoke switch status indicator RS-ZA142. The operating states pollution, fault and alarm of the smoke switch are transferred to the RS-ZA142 and displayed there via the communication interface (PIN 3 smoke switch). In addition to the optic display, a floating change-over contact is available for each operating state which can be used for the control and transfer of the operating states to superordinate systems like a building control system.
Mounting	On the ventilation duct 2 x Ø 28-30 mm / 150 mm distance to fxing in housing 2 x max. 6/206 mm distance
Air flow	1 m/s up to 20 m/s
Point of use	Ventilation ducts
Weight	(Without tube) approx. 350 g
Housing	White RAL 9010 PC/aluminium tube
Dimensions	250 x 100 x 135 mm
Protection class	IP40
Operating temperature	-20...+60 °C
Ambient humidity	0...95 % rh. (without condensation)
Standards/rules/guidelines/ approvals	VdS tested G 207083
Maintenance	Yearly

TYPE

R-LRS01

ACCESSORY

TYPE	DESCRIPTION	
R-ORS210	The optical smoke switch R-ORS210 is used in the R-LRS01 system. The relay in the optical smoke switch opens on alarm, heavy dirt, malfunction or power failure. The smoke switch R-ORS210 has an alarm storage and must be reset (briefly interrupting the power supply) to the operating condition. The relay contact can switch voltages up to 30 V AC / DC.	

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ACCESSORY

TYPE	DESCRIPTION
R-RS-ZA142-AP	The smoke switch status indicator RS-ZA142-AP displays the states of the connected smoke switches and transfers this information to a superordinate system. Design: surface mounting
918-5H-Pruefgas	Test aerasol for smoke detectors and switches.

Smoke switch for air duct monitoring with VDC recognition

DIGICONTROL R-KRM-X...

Data sheet number 81290

The duct smoke detector R-KRM-X... was developed for smoke detection in ventilation ducts. It is a combination of a smoke detector and an adapter system, whose measuring tube and housing have been specially customised for an optimum air flow through the smoke detector.

TECHNICAL DATA

Outputs	■ Relay outputs: potential-free ■ Alarm relay locked: 1 changeover contact, 8 A, 250 V AC or 24 V DC / 1 normally closed contact, 8 A, 250 V AC or 24 V DC ■ Pollution relay: 1 NC contact, 6 A, 250 V AC or 24 VDC
Electrical connection	Connection type 3 x M16
Function	Scattered light RM 3.3-S (ALN-E)
Air flow	1 m/s to 20 m/s
LED display	LED display: Pollution degree % - flashing 99 %, flashes when trying to unclock if the detection chamber is not empty yet
Housing	Adapter housing: ASB Air measuring tube: Aluminium/plastic, minimum length 160 mm, standard length 600 mm, maximum length 3009 mm
Dimensions	Approx. 271 x 172 x 85 mm
Protection class	IP54
Operating temperature	-20...+50 °C
Ambient humidity	10...95 % rh. (non-condensing)
Standards/rules/guidelines/ approvals	VdS testet G 219046 / G 219053

TYPE LIST

TYPE	VOLTAGE	NOMINAL CURRENT	INTERFACES
R-KRM-X-1	230 V AC +/- 10 %, 50/60 Hz	0.03 A	-
R-KRM-X-1-MOD	230 V AC +/- 10 %, 50/60 Hz	0.03 A	RS485 / Modbus
R-KRM-X-1-BAC	230 V AC +/- 10 %, 50/60 Hz	0.03 A	RS485 / BACnet
R-KRM-X-2	24 V AC/DC 16-27.6 V AC / 21.6-27.6 V DC	0.120 A	-
R-KRM-X-2-MOD	24 V AC/DC 16-27.6 V AC / 21.6-27.6 V DC	0.120 A	RS485 / Modbus
R-KRM-X-2-BAC	24 V AC/DC 16-27.6 V AC / 21.6-27.6 V DC	0.120 A	RS485 / BACnet

ACCESSORY

TYPE	DESCRIPTION
R-KRM-KS-X	Mounting bracket for insulated / round ducts

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ACCESSORY

TYPE	DESCRIPTION
R-KRM-KS-WDG-X	Mounting bracket for insulated / round ducts in connection with R-KRM-WDG-X
R-KRM-WDG-X	Protective and insulating housing with alarm display for outdoor mounting

Water detector

DIGICONTROL R-SWM...

Data sheet number 81305

The electronic water detector serves to monitor containers and rooms. The tare weight of the water detector rests on its four plastic feet. The sensors are approx. 0.5 mm higher. Underground condensation is not recorded. If the sensor does not record any water, the relay contact is closed, the green LED indicates operation. The red LED displays water alarm. If water is recorded or in the event of power failure, contact terminal 3-4 opens. The device must not be used as safety-related equipment.

TECHNICAL DATA

Voltage	24 V AC/DC +/- 15 %
Outputs	Break contact, LED displays, relay contact max. 1 A, max. 60 V
Measuring current	max. 0,15 mA
Sensitivity	Input ~0,8–1 MΩ (1,25–1 µS)
Current consumption	Max. 20 mA
Sensor	2x2 Detector electrodes, water conductivity
Electrical connection	Connection cable LIYY 4x0,14 / Length 4 m, outer cable diameter 3,7 mm
Weight	130 g
Housing	Plastic, alkali-proof grouted
Dimensions	46 x 34 x 28 mm
Protection class	IP68
Storage temperature	-30...+80 °C
Operating temperature	0...+60 °C
Ambient humidity	0...95 % rh.
Standards/rules/guidelines/ approvals	DIN16945, DIN53505, DIN53482
Accessories	V2A mounting bracket/assembly bracket with 2 anchorage bores
Other remarks	In the event of alarm or power failure the contact terminal 3-4 opens. R-SWM3: In the event of alarm, the contact remains locked in. R-SWM3.2: In the event of alarm, the contact does not remain locked in.

TYPE LIST

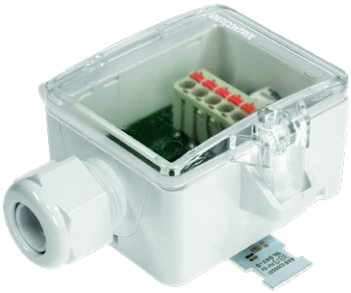
TYPE
R-SWM3
R-SWM3.2

Condensation monitor

DIGICONTROL R-KW-T

Data sheet number 82008

The condensation monitor is used to detect condensation on chilled ceilings. The monitor registers condensation on the (rear) contact prism. The device contains sensor and evaluation electronics. With signaling LED and relay contact for connection to control and display systems or for series connection with the cooling valve to directly interrupt the cooling water flow in case of incipient condensation.



TECHNISCHE DATEN

Voltage	15..24 V = (±10%) or 24 V ~ (±10%)
Outputs	Switching contact: Change-over contact, max. 24 V / 1.0 A (ohmic, potential-free)
Power consumption	Typ. 0.8 W (24 V =) | 1.6 VA (24 V ~)
Electrical connection	Removable plug-in terminal, max. 2.5 mm²
LED display	LED green - power supply OK LED red - condensation
Housing	USE-S housing, PC, pure white, cover PC, transparent
Protection class	IP65 according to EN60529
Operating temperature	-20...+60 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	Cable inlet: Flextherm M20, for cables with 4.5...9 mm diameter, removable Scope of delivery: 1x syringe with thermal compound

TYPE

R-KW-T

Room hygrostat for controlling the relative humidity

DIGICONTROL R-RH...-T

Data sheet number 82009

The room hygrostat is used to control (two-point) the relative humidity in offices, computer, business, and storage rooms, etc.

TECHNICAL DATA

Outputs	■ Switching contact ■ Change-over contact, potential-free ■ Dehumidify, max. 250 V, 5 (1) A, min. 100 mA ■ Humidify, max. 250 V, 3 (1) A, min. 100 mA ■ Minimum switching current 100 mA, not relevant when switching high-impedance loads (<10 kOhm) such as logic levels
Measuring range	30...100 % without condensation
Sensor	Plastic fibres
Electrical connection	Screw terminals max. 1.5 mm²
Accuracy	±3 % rH (typ. at 50 % rH) Mean temperature coefficient -0.2 % / K, typ at 20 °C, 50 % rH
Housing	PC, pure white
Protection class	IP30 according to EN60529
Operating temperature	0...+60 °C
Ambient humidity	-35...95 % rH
Other remarks	Predetermined breaking point at top/bottom, opening at rear side

TYPE LIST

TYPE	ACCURACY	SCALE
R-RHA-T	±3 % rH (typ. at 50 % rH) Mean temperature coefficient -0.2 % / K, typ at 20 °C, 50 % rH	Scale outside
R-RHI-T	±3 % rH (typ. at 50 % rH) Mean temperature coefficient -0.2 % / K, typ at 20 °C, 50 % rH	Scale inside

Duct hygrostat for controlling the relative humidity

DIGICONTROL R-KH-T

Data sheet number 82007

The duct hygrostat (two-point controller) is used to control relative humidity. Possible applications are almost everywhere where humidity has to be monitored and controlled, such as in ventilation and air-conditioning systems, climate cabinets, air humidifiers and dehumidifiers, office and computer rooms, storage for food and luxury foodstuffs, cold rooms for fruit and vegetables, greenhouses of horticultural businesses, textile industry, paper and printing industruy, film industry, hospitals and similar.

TECHNICAL DATA

Outputs	■ Switching contact: ■ Floating change-over contact for 230 V ~ / 2 A (inductive), 230 V ~ / 15 A (resistive) ■ Minimum switching current 100mA, not relevant when switching high-impedance loads (>10kOhm) such as logic levels
Measuring range	30...100 % without condensation
Flow speed	Max. 8 m/s, with sensor protection max. 15 m/s
Sensor	Polyga® measuring element, water-resistant, washable
Electrical connection	Screw terminals max. 1.5 mm²
Switching differential	4 % (at 50 % rH)
Accuracy	typ. ±3.5 % (>50 % rH), ±4% (
Housing	ABS, pure white, light gray
Protection class	IP54 according to EN60529
Operating temperature	0...+60 °C
Ambient humidity	-35...95 % rH
Other remarks	Cable inlet: M20 for cable with max. 8 mm diameter Sensor tube: stainless steel, 16 mm diameter, length 220 mm Filter element optional: PTFE filter for extreme operating conditions, filter protection wire mesh for flow velocity 8...15 m/s

TYPE

R-KH-T

Frost protection thermostat

DIGICONTROL R-FW...-T

Data sheet number 81501

The frost protection thermostat is used for air-side temperature monitoring of water/air heaters in ventilation and air-conditioning plants to prevent frost damage. It has a small switching differential and high reproducibility. The re-set is automatic.By switching the frost protection thermostat, the follow-ing frost protection measures can be triggered, for example:- Fan OFF- Fresh air damper CLOSED- Air heating valve 100 % OPEN- Heat pump ON- Chiller (compressor) and humidifier OFF- Triggering of the frost hazard message opti-cally and/or acoustically

TECHNICAL DATA

Outputs	1-pole changeover switch or changeover contact, switching capacity max. 10 A (250 V ~)10 A (250 V)
Electrical connection	Screw terminals max. 2.5 mm²
Switching differential	2 °C ±1 °C
Accuracy	Reproducibility +/- 0.5 °C
Housing	Bottom part PA6 GK30, light gray, cover ABS, transparent
Protection class	IP65 according to EN60529
Operating temperature	-35...+70 °C
Ambient humidity	Max. 85 % rh., short term condensation
Setpoint value adjustment	-10...+15 °C (factory setting +5 °C)
Other remarks	Scope of delivery: Mounting bracket PA6 GF30 (6 pieces), 1x grommet DA20/80/20 D/I=2 mm, 1x grommet DA20/80/10 D/I=2 mm Cable entry: M16 Capillary tube: Copper with filling R 507, response length sensor approx. 600 mm, contact material Ag/ Ni (90 % / 10 %), gold-plated (3 µm)

TYPE LIST

TYPE	CAPILLARY TUBE	SWITCHING DIFFERENTIAL	ACCURACY
R-FW3-T	3000 mm	2 °C ±1 °C	Reproducibility +/- 0.5 °C
R-FW6-T	6000 mm	2 °C ±1 °C	Reproducibility +/- 0.5 °C
R-FW12-T	12000 mm	2 °C ±1 °C	Reproducibility +/- 0.5 °C

2-phase frost protection thermostat with continuous and switching output

DIGICONTROL R-FWS...-1

Data sheet number 82058

Electronic forst protection thermostat with switching relay output, continuous temperature, and valve output (summation output 0-10 V) as well as control and cascading input (0-10 V), in impact-resistant plastic housing wiht quick-locking screws, with display as standard, with fully active sensor rod made of copper.
The frost guard serves for monitoring of air conditioning systems, heat exchangers, heating coils and similar plants and prevents frost damage and freezing.
The limit value shortfall is detected at the coldest measuring point of the capillary, the sensor rod is active over the complete length. By means of self-diagnostics, capillary breakage, operating voltage fault or electrical damage to the sensor are detected as faults and the relay automatically switches to frost.
The innovative 2-phase frost protection thermostat enables the simple linking of several devices (cascading) for demand-oriented, area-wide frost monitoring. Delivery includes mounting brackets.

TECHNICAL DATA

Voltage	24 V AC/DC
Outputs	■ 1x 0-10 V temperature (corresponds to 0...+15 °C) ■ 1x 0-10 V valve (frost signal with control voltage and cascading) ■ 1x potentail free changeover contact (24 V), setting range 0...+15 °C
Measuring range	0...+15 °C
Switch-on run-in time	1 min
Response Time	t90: < 5 s
Current consumption	Max. 10 mA at 24 V DC
Electrical connection	0.14 - 1.5 mm², via screw terminals, cable gland M16 x 1.5; including strain relief
Switching differential	2 K
Accuracy	+/- 1 K (at +10 °C)
Input	1x 0-10 V control input AS 1x 0-10 V cascading input
Mounting	With mounting brackets
Housing	Plastic, UV stabilized, material polyamide, 30 % glass bead reinforced, with quick release screws, colour traffic white (similar like RAL 9016), tranparent lid for display
Dimensions	126 x 90 x 50 mm
Protection class	III
Protection class	IP65
Ambient temperature	-15...+50 °C
Storage temperature	-30...+70 °C
Operating temperature	Min: setting range +2 °C, max: +70 °C
Ambient humidity	< 95 % rh., non-condensing air
Standards/rules/guidelines/ approvals	CE conformity, electromagnetic compatibility according to EN 61326, EMC Directive 2014/30/EU

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TYPE LIST

TYPE	CAPILLARY TUBE	SWITCHING DIFFERENTIAL	ACCURACY
R-FWS3-1	3000 mm	2 K	+/- 1 K (at +10 °C)
R-FWS6-1	6000 mm	2 K	+/- 1 K (at +10 °C)

Differential pressure switch

DIGICONTROL R-DDS...-T

Data sheet number 82071

Adjustable differential pressure switch for monitoring the differential pressure of air and other non-flammable and non-aggressive gases. Possible applications are the monitoring of air filters, fans, industrial cooling air circuits and flows in ventilation ducts.

TECHNICAL DATA

Switching capacity	Max. 250 V ~, 3 A resistive load, 2 A inductive load; service life: >1,000,000 switching cycles
Outputs	■ Switching contact: NO/NC circuit, switching difference ■ R-DDS300-T / R-DDS500-T: 20 Pa ■ R-DDS1500-T: 80 Pa
Overpressure (one sided)	Max. 50 kPa
Electrical connection	Screw terminals max. 1.5 mm²
Connection	Mechanical Pressure connection: ABS Connection hose: PVC soft
Weight	150 g
Housing	ABS, cover PC, membrane silicone
Protection class	IP54 according to EN60529
Operating temperature	-20...+60 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	Cable inlet: M16 for cable with max. 8 mm diameter Scope of delivery: 2 fastening screws, 2 plastic duct connection pieces, 2 m PVC tubing soft with 4/7 mm diameter

TYPE LIST

TYPE	SETTING RANGE	ACCURACY
R-DDS300-T	30...300 Pa	Typ. ±5 Pa
R-DDS500-T	30...500 Pa	Typ. ±5 Pa
R-DDS1500-T	100...1500 Pa	Typ. ±10 Pa

V-Belt monitor

DIGICONTROL R-DRIW-E16

Data sheet number 82090

The V-belt monitor R-DRIW-E16 is used to monitor rotary movements (under-speeding) of V-belt driven drive shafts. Inductive proximity switches are used to detect rotary speed. The inductive proximity switch R-SN-DRIW (see Accessories) is used for logging the rotational speed.

TECHNICAL DATA

Voltage	24 V AC/DC +/- 10 %
Power consumption	0.6 W
Weight	70 g
Dimensions	22.5 x 60 x 60 mm
Protection class	IP20
Storage temperature	-25...+70 °C
Operating temperature	0...+55 °C
Standards/rules/guidelines/ approvals	EMC test Emission: per EN 50 081 T1 Interference immunity: per EN 50 082 T2
Other remarks	Input side: - Monitoring range: max. 4200 pulses/min - Turn-off range: 120 pulses/min - Start control: 60 s Output side: - Output contact: 2 change-over contacts - Continuous current max: 6 A, total current max. 8 A for both relays

TYPE

R-DRIW-E16

ACCESSORY

TYPE	DESCRIPTION
R-SN-DRIW	Two-wire sensor with integrated LED for R-DRIW..., cable length 2 m, incl. holding bracket

Paddle vane relais

DIGICONTROL R-WFS-1EPL

Data sheet number 82100

The R-WFS-1EPL ist applicable for flow monitoring of gaseous media in ventilation and air conditioning ducts, in air intake and exhaust devices of ventilators or electric heating registers (also for contaminated, oily air), o ras flow controller and airflow monitor.

TECHNICAL DATA

Switching capacity	15 (8) A; 24...250 V AC, at 24 V AC minimum 150 mA
Electrical connection	0.14 - 1.5 mm², via screw terminals, cable gland M20 x 1.5; including strain relief
Contacts	Dust-sealed microswitch as single-pole, potential-free change-over switch (change over contact)
Switching differential	Differential speed ≥ 1 m/s
Function	Contact 1-3 breaks when flow rate drops to the preconfigured value. Simultaneously, contact 1-2 closes and can be used as signal contact. Device is factory-set to the minimum switch-off value, which can be increased by turning the range adjusting screw clockwise.
Mounting	Vertical Installation in horizontal air ducts. Minimum smoothing distance = 5x duct diameter upstream and downstream of vane. For airspeeds > 5 m/s, vane has to be trimmed at the marked spots. Thereby the minimum switch-off value increases to about 2.5 m/s and the minimum switch-on value to ca. 4 m/s.
Housing	Plastic, material polyamide, 30 % glass bead fortified, pure white
Dimensions	108 x 73.5 x 70 mm
Protection class	IP65
Protection class	I
Ambient temperature	-40...+85 °C
Standards/rules/guidelines/ approvals	CE conformity, EMC directive 2014/30/EU, Low-voltage directive 2014/35/EU
Other remarks	Base body: galvanised steel Moving arm: brass Vane: stainless steel, V2A

TYPE

R-WFS-1EPL

Temperature and airflow transducer

DIGICONTROL R-KLSW-T

Data sheet number 82113

The temperature and airflow transmitter is used to measure and monitor airflows in supply/extract air systems, on fans, control dampers and electric heating registers.

TECHNICAL DATA

Voltage	15..24 V = (±10%) or 24 V ~ (±10%)
Outputs	■ Voltage: 2x 0...10 V min. load 1 kΩ ■ Current: 2x 4...20 mA max. load 400 Ω ■ Switching contact: Relay with change-over contact (potential-free), 250 V ~ / 6 A, 30 V = / 6 A
Measuring range	Temperature: 0...+50 °C Flow: 0...2 m/s, 0...10 m/s, 0...20 m/s adjustable on device
Power consumption	Max. 2.4 W
Sensor	Calorimetric measuring principle
Electrical connection	Screw terminals max. 1.5 mm²
Accuracy	Temperature: 0.5 m/s) ±0.5 K (typ. at 21 °C) Flow: 0..2 m/s:
Housing	ABS cover PC
Protection class	IP54 according to EN60529
Operating temperature	0...+50 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	LCD display: 3.5”, 45.7 x 12.7 mm Cable inlet: 2x M16 Sleeve: stainless steel V2A L=210 mm, 10 mm diameter

TYPE

R-KLSW-T

Temperature and airflow transducer

DIGICONTROL F-KLSF-T

Data sheet number 82114

The temperature and airflow transmitter is used to measure and monitor airflows in supply / extract air plants, on fans, control dampers and electric heating registers.

TECHNICAL DATA

Voltage	15..24 V = (±10%) or 24 V ~ (±10%)
Outputs	■ Voltage: 2x 0...10 V min. load 1 kΩ ■ Current: 2x 4...20 mA max. load 400 Ω
Measuring range	Temperature: 0...+50 °C Flow: 0...2 m/s, 0...10 m/s, 0...20 m/s adjustable on device
Power consumption	Max. 2 W
Sensor	Calorimetric measuring principle
Electrical connection	Screw terminals max. 1.5 mm²
Accuracy	Temperature: 0.5 m/s) ±0.5 K (typ. at 21 °C) Flow: 0..2 m/s:
Housing	ABS cover PC
Protection class	IP54 according to EN60529
Operating temperature	0...+50 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	Cable inlet: M16 for cables with max. 8 mm diameter Sleeve: stainless steel V2A L=210 mm, 10 mm diameter

TYPE

F-KLSF-T

Flow indicator for piping installation

DIGICONTROL R-SW...

Data sheet number 82120

The R-SW-... is a mechanical flow indicator with paddle for piping installation, suitable for flow monitoring of liquid and gaseous media in pipelines, hydraulic systems from 1/2” up to 8” diameter, as flow monitor or water-failure safety device, e.g. for pumps in heating and cooling circuits, refrigeration machines, vaporisators, compressors and heat exchangers.

TECHNICAL DATA

Media temperature	Max. +120 °C
Switching capacity	15 (8) A; 24...250 V AC, at 24 V AC min. 150 mA
Electrical connection	0.14 - 1.5 mm² via screw terminals
Contacts	Dust-sealed microswitch as single-pole, potential-free change-over switch (change over contact)
Function	Contact COM-NO/3 (red-yellow) opens when flow rate drops to the preset value. Simultaneously, contact COM-NC/2 (red-blue) closes and can be used as signal contact. Device is factory-set to the minimum switch-off value, which can be increased by turning the range adjusting screw clockwise.
Housing	Plastic, material polyamide, 30 % glass bead fortified, pure White Screw-in unit is brass or stainless steel
Dimensions	108 x 73.5 x 70 mm
Protection class	I
Protection class	IP65
Operating temperature	-40...+85 °C
Standards/rules/guidelines/ approvals	CE conformity, EMC guideline 2014/30/EU, Low-voltage guideline 2014/35/EU
Other remarks	Base body: galvanised steel Cable gland: M 20x1.5 with strain relief Paddle: stainless steel, 1.4401, VA

TYPE LIST

TYPE	MEDIUM	DIAMETER NOMINAL	OPERATING PRESSURE	MATERIAL	WEIGHT
R-SW-1EPL	Normal	1-8”	11 bar	Brass	350 g
R-SW-2EPL	Aggressive	1-8”	30 bar	Stainless steel	400 g
R-SW-3EPL	Normal	1/2”	11 bar	Brass	350 g
R-SW-4EPL	Normal	3/4”	11 bar	Brass	350 g

Universal thermostat TW (-10..50°C)

DIGICONTROL R-TUC...

Data sheet number 82212

It is applied for controlling and onitoring temperatures of liquids in bathrooms, containers, pipelines and ducts.Due to its modular structure, it can be used as contact thermostat, rod thermostat, double thermostat and as thermostat with remote sensor.Variants as temperature monitors (TW), safety temperature monitors (STW), temperature limiters (TB) or safety temperature limiters (STB).The scope of delivery includes a brass immersion sleeve of 100 mm length.

TECHNICAL DATA

Contact load	Terminal 1-2: 230 V~, 10 (2.5) A (at break contact); Terminal 1-4: 230 V~, 2 (0.4) A
Time constant	In water with thermowell LW 7
Sensor cartridge	6.5 mm
Weight	0.2 kg
Degree of protection	IP54
Protection class	I
Ambient temperature	0...70 °C
Storage temperature	-25...+80 °C

TYPE LIST

TYPE	CAPILLARY TUBE	SWITCHING DIFFERENTIAL	SETTING RANGE	FUNCTION	TEMPERATURE
R-TUC101F003	1600 mm	Approx. 4.2 K	-10...+15 °C	TW	Max. 140 °C
R-TUC102F001	700 mm	Approx. 5.6 K	5...30 °C	TW	Max. 200 °C
R-TUC105F001	700 mm	Approx. 5.6 K	15...95 °C	TW	Max. 200 °C
R-TUC106F001	700 mm	Approx. 5.6 K	40...120 °C	TW	Max. 200 °C
R-TUC107F001	700 mm	Approx. 5.6 K	50...130 °C	TW	Max. 200 °C
R-TUC108F001	700 mm	Approx. 5.6 K	80...160 °C	TW	Max. 200 °C
R-TUC207F003	1600 mm	Approx. 10 K	70...130 °C	STW	Max. 160 °C
R-TUC303F001	700 mm	</- 20 K	15...60 °C	TB	Max. 200 °C
R-TUC307F001	700 mm	</- 20 K	50...130 °C	TB	Max. 200 °C
R-TUC407F001	700 mm	</- 20 K	95...130 °C	STB	Max. 160 °C

ACCESSORY

TYPE	DESCRIPTION
0300360008	Strain relief
0300360009	Holder for sensor cartridge
0300360010	Tightening strap for pipe mounting
0300360011	Mounting plate for double thermostats
0300360012	Sensor support spiral for air duct Installation
0300360013	Mounting bracket for duct or wall mounting

Thermowell for R-TUC...

DIGICONTROL T-THN...-TUC | T-THM...-TUC

Protective tube: for one univeral thermostat, for a minimum of two thermostats with a Ø 6 mm

Specifications:

- For installation on pipelines and containers, for integration of sensor cartridges, immersion stems, temperature sensors, temperature controllers of thermostats
- Made of brass (Ms) or stainless steel (V4A)
- Types with cylindrical (G½" A ISO 228/1 flat-sealing) or conial (R½" ISO 7/1 thread-sealing)1 pipe threads
- With compression spring

1 for welding flanges with flat sealing

TECHNICAL DATA

Mounting	Internal thread G 1/2"

TYPE	OPERATING PRESSURE	INSTALL. LENGTH	MATERIAL	AMBIENT TEMPERATURE
T-THN100-TUC	25 bar	100 mm	stainlees steel	Max. +450 °C
T-THN300-TUC	25 bar	300 mm	stainlees steel	Max. +450 °C
T-THND100-TUC	40 bar	100 mm	stainlees steel	Max. +450 °C
T-THND200-TUC	40 bar	200 mm	stainlees steel	Max. +450 °C
T-THND450-TUC	40 bar	450 mm	stainlees steel	Max. +450 °C
T-THMD100-TUC	16 bar	100 mm	brass	Max. +160 °C
T-THMD200-TUC	16 bar	200 mm	brass	Max. +160 °C

Room thermostat

DIGICONTROL R-RTR-T

Data sheet number 82151

The flat room thermostat is intended for heating and cooling operation via a 2-wire system in residential, industrial, and business premises. The setpoint temperature is adjusted via the large rotary knob. This sensor can be used for temperature control and as overheating protection.

TECHNICAL DATA

Voltage	230 V ~
Outputs	■ Switching contact ■ NC contact, heating ■ Max. 230 V ~ / 2 A (resistive, with potential)
Sensor	Bimetal contact
Electrical connection	Screw terminals max. 1.5 mm²
Input	Potential-free input for night setback -3 K, 230 V ~
Function	- Operation: Setpoint adjustment - Heating or cooling ON/OFF - Night setback
Housing	ABS, pure white glossy
Weight	60 g
Protection class	IP30 according to EN60529
Operating temperature	0...+50 °C
Ambient humidity	Max. 85 % rh. (non-condensing)
Setpoint value adjustment	Range +5...+30 °C
Other remarks	Switching values: Output switching contact max. 460 W, switching hysteresis 0.5 K, max. permissible rate of temperature change 4 K/h Cable inlet: Opening rear side

TYPE

R-RTR-T

Pressure switch

DIGICONTROL R-BCP

Data sheet number 82004

The BCP type is a series of dedicated pressure switches for safety and pressure monitoring of steam and hot water boilers.The BCP incorporates a single-pole changeover microswitch where the contact position depends on the pressure in the connection port and the range set value.For installations, in which operation is particularly critical for safety reason, the use of fail-safe control is recommended.

TECHNICAL DATA

Medium	Steam, water, air
Media temperature	Up to 120 °C (above 230 °C a water-filled loop must be installed) °C
Electrical connection	Plug, DIN 43650, PG 11
Contact load	Minimum: 4 mA, 5 V; Maximum: AC-1: 6 A, AC-15: 1 A, DC-13: 10 W, 250 V
Connection	G 1/2”
Housing	Contact coating silver/gold (gold-plated silver)
Protection class	IP65
Operating temperature	-20...+70 °C
Standards/rules/guidelines/ approvals	CE-marked in accordance with EN 60947-4/-5 CE marked in accordance with PED 97/23/EC, category IV, safety equipment, testing basis pr EN12952-11 and EN12953-9.
Other remarks	Reset function: automatic If used with current higher than 400 mA the gold will disappear and the unit can’t be used at a lower current again.

TYPE LIST

TYPE	TEST PRESSURE	OPERATING PRESSURE	SWITCHING DIFFERENTIAL	SETTING RANGE
R-BCP1	7 bar	6 bar	0.15...0.6 bar	0.1...1.1 bar
R-BCP2	11 bar	10 bar	0.4...1 bar	0...2.5 bar
R-BCP3	18 bar	16 bar	0.7...1.4 bar	0...6 bar
R-BCP4	28 bar	25 bar	1.0...2.5 bar	1...10 bar
R-BCP5	35 bar	32 bar	2.0...3.2 bar	2...16 bar
R-BCP6	45 bar	40 bar	2.5...4 bar	5...25 bar
R-BCP7	70 bar	63 bar	3.0...6.0 bar	10...40 bar

ACCESSORY

TYPE	DESCRIPTION
R-BCP-HB	Holding bracket for R-BCP
R-BCP-MW	Mounting bracket for R-BCP

Pressure relief valve for falling pressure

DIGICONTROL R-BCP

The BCP type is a series of dedicated pressure switches for safety and pressure monitoring of steam and hot water boilers.The BCP incorporates a single-pole changeover microswitch where the contact position depends on the pressure in the connection port and the range set value.For installations, in which operation is particularly critical for safety reason, the use of fail-safe control is recommended.

TECHNICAL DATA

Medium	Steam, water, air
Media temperature	Up to 120 °C (above 230 °C a water-filled loop must be installed) °C
Electrical connection	Plug, DIN 43650, PG 11
Contact load	Minimum: 4 mA, 5 V; Maximum: AC-1: 6 A, AC-15: 1 A, DC-13: 10 W, 250 V
Connection	G 1/2”
Housing	Contact coating silver/gold (gold-plated silver)
Protection class	IP65
Operating temperature	-20...+70 °C
Standards/rules/guidelines/ approvals	CE marked in accordance with EN 60947-4/-5 CE marked in accordance with PED 97/23/EC, category IV, safety equipment, testing basis pr EN12952-11 and EN12953-9.
Other remarks	Reset function: manuel If used with current higher than 400 mA the gold will disappear and the unit can’t be used at a lower current again.

TYPE LIST

TYPE	TEST PRESSURE	OPERATING PRESSURE	SWITCHING DIFFERENTIAL	SETTING RANGE
R-BCP2L	11 bar	10 bar	9 bar	0...2.5 bar
R-BCP3L	18 bar	16 bar	0.4 bar	0...6 bar
R-BCP5L	35 bar	32 bar	1.2 bar	2...16 bar

ACCESSORY

TYPE	DESCRIPTION
R-BCP-MW	Mounting bracket for R-BCP
R-BCP-HB	Holding bracket for R-BCP

Pressure relief valve for rising pressure

DIGICONTROL R-BCP

The BCP type is a series of dedicated pressure switches for safety and pressure monitoring of steam and hot water boilers.The BCP incorporates a single-pole changeover microswitch where the contact position depends on the pressure in the connection port and the range set value.For installations, in which operation is particularly critical for safety reason, the use of fail-safe control is recommended.

TECHNICAL DATA

Medium	Steam, water, air
Media temperature	Up to 120 °C (above 230 °C a water-filled loop must be installed) °C
Electrical connection	Plug, DIN 43650, PG 11
Contact load	Minimum: 4 mA, 5 V; Maximum: AC-1: 6 A, AC-15: 1 A, DC-13: 10 W, 250 V
Connection	G 1/2”
Housing	Contact coating silver/gold (gold-plated silver)
Protection class	IP65
Operating temperature	-20...+70 °C
Standards/rules/guidelines/ approvals	CE-marked in accordance with EN 60947-4/-5 CE marked in accordance with PED 97/23/EC, category IV, safety equipment, testing basis pr EN12952-11 and EN12953-9.
Other remarks	Reset function: manuel If used with current higher than 400 mA the gold will disappear and the unit can’t be used at a lower current again.

TYPE LIST

TYPE	TEST PRESSURE	OPERATING PRESSURE	SWITCHING DIFFERENTIAL	SETTING RANGE
R-BCP3H	18 bar	16 bar	0.4 bar	0...6 bar
R-BCP4H	28 bar	25 bar	0.45 bar	1...10 bar
R-BCP5H	35 bar	32 bar	1.2 bar	2...16 bar
R-BCP6H	70 bar	63 bar	1.5 bar	10...40 bar
R-BCP7H	45 bar	40 bar	2.3 bar	5...25 bar

ACCESSORY

TYPE	DESCRIPTION
R-BCP-MW	Mounting bracket for R-BCP
R-BCP-HB	Holding bracket for R-BCP

Differential pressure transmitter

DIGICONTROL F-DDML...-T

The differential pressure transmitter with 8 adjustable measuring ranges and the analogue output signals 0...10 V and 4...20 mA
is used to detect differential pressures of air and other non-flammable and non-aggressive gases. Possible applications are the monitoring
of air filters, fans, industrial cooling air circuits and flows in ventilation ducts.

TECHNICAL DATA

Outputs	Voltage: 0..10 V, min. load 10 kΩ Current: 4..20 mA, max. load 500 Ω
Pressure connection	Male 5.0 / 6.3 mm diameter, connection tube: PVC, soft
Zero point offset	■ F-DDML2500-T / F-DDML2500D-T: Measuring range 500 Pa: 12 months ■ F-DDML7000-T / F-DDML7000D-T: 12 months
Max. perm. operating pressure	40 kPa
Power consumption	Typ. 1.1 W (24 V =) | 1.7 VA (24 V ~)
Sensor	Piezo measuring cell
Electrical connection	Screw terminals max. 1.5 mm²
Housing	Hinged cover housing, PA6, pure white
Weight	150 g
Protection class	IP54 according to DIN EN 60529, IP65 with screwed cover
Operating temperature	-10...+50 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	Cable inlet: M20 for cable with max. 8 mm diameter, sealing insert for double cable entry for cable with max. 6 mm diameter Scope of delivery: 2 fixing screws, 2 plastic duct connection pieces, 2 m PVC connection hose

TYPE LIST

TYPE	DATA SHEET	VOLTAGE	MEASURING RANGE
F-DDML2500-T	82256	15...24 V DC (+/- 10 %) or 24 V AC (+/- 10 %)	-100..+100 | 0..+100 | 0..+250 | 0..+500 | 0..+1000 | 0..+1500 | 0..+2000 | 0..+2500 Pa
F-DDML2500D-T	82256	15...24 V DC (+/- 10 %) or 24 V AC (+/- 10 %)	-100..+100 | 0..+100 | 0..+250 | 0..+500 | 0..+1000 | 0..+1500 | 0..+2000 | 0..+2500 Pa
F-DDML7000-T	82257	15...24 V DC (+/- 10 %) or 24 V AC (+/- 10 %)	0..+1000 | 0..+1500 | 0..+2000 | 0..+2500 | 0..+3000 | 0..+4000 | 0..+5000 | 0..+7000 Pa
F-DDML7000D-T	82257	15...24 V DC (+/- 10 %) or 24 V AC (+/- 10 %)	0..+1000 | 0..+1500 | 0..+2000 | 0..+2500 | 0..+3000 | 0..+4000 | 0..+5000 | 0..+7000 Pa

Differential pressure transmitter for liquid media

DIGICONTROL F-DDMW-T

Data sheet number 82258

The differential pressure transmitter F-DDMW-T measures the differential pressure in liquid media. Typical areas of application are the supply and return in heating systems and the monitoring of filters and compressors.

TECHNICAL DATA

Outputs	0...10 V, min. load 2 kΩ
Electrical connection	Angle plug according to DIN 43650 type A
Accuracy	< +/- 1 % of measuring range (typ. at -5...+75 °C)
Housing	Stainless steel V2A, cover die-cast aluminum, measuring cell ceramic
Protection class	IP54 according to EN60529
Storage temperature	-20...+50 °C
Operating temperature	-20...+80 °C
Ambient humidity	Max. 85 % rh., short term condensation
Other remarks	Mechanical connection: G1/4

TYPE LIST

TYPE	VOLTAGE	MEASURING RANGE	OPERATING PRESSURE	DISPLAY
F-DDMW1-T	15..24 V = (±10%) or 24 V ~ (±10%)	0...1.0 bar	6 bar	Without display
F-DDMW1D-T	24 V = or 24 V ~ (±10%)	0...1.0 bar	6 bar	With display
F-DDMW2_5-T	15..24 V = (±10%) or 24 V ~ (±10%)	0...2.5 bar	6 bar	Without display
F-DDMW2_5D-T	24 V = or 24 V ~ (±10%)	0...2.5 bar	6 bar	With display
F-DDMW6-T	15..24 V = (±10%) or 24 V ~ (±10%)	0...6.0 bar	16 bar	Without display
F-DDMW6D-T	24 V = or 24 V ~ (±10%)	0...6.0 bar	16 bar	With display

Pressure transmitter

DIGICONTROL F-DMU...-T

Data sheet number 82259

The pressure transmitter is used to measure the pressure in liquid media in air-conditioning, heating, and water technology. Suitable for plants with refrigerants.

TECHNICAL DATA

Outputs	0..10 V, min. load 5 kΩ
Max. perm. operating pressure	2 times nominal pressure
Nominal pressure	Depending on device
Power consumption	Typ. 0.15 W (24 V =) | 0.3 VA (24 V ~)
Electrical connection	Plug MVS according to DIN EN175301-803
Accuracy	±0,5% (typ. at +21 °C)
Mounting	Process connection G 1/2”
Weight	60 g
Housing	Parts in contact with medium Stainless steel V2A
Protection class	IP65 according to EN60529
Operating temperature	-40...+105 °C
Other remarks	Operating range temperature: -40...+125 °C Cable inlet: compression fitting for cable with max. 8 mm diameter

TYPE LIST

TYPE	VOLTAGE	MEASURING RANGE
F-DMU1_0-T	15..24 V = (±10%) or 24 V ~ (±10%)	0...1.0 bar
F-DMU2_5-T	15..24 V = (±10%) or 24 V ~ (±10%)	0...2.5 bar
F-DMU6_0-T	15..24 V = (±10%) or 24 V ~ (±10%)	0...6.0 bar
F-DMU10_0-T	15..24 V = (±10%) or 24 V ~ (±10%)	0...10.0 bar
F-DMU16_0-T	15..24 V = (±10%) or 24 V ~ (±10%)	0...16.0 bar
F-DMU25_0-T	15..24 V = (±10%) or 24 V ~ (±10%)	0...25.0 bar

Climate sensor

DIGICONTROL F-ClimaSens-D

Data sheet number 81006

The climate sensor F-ClimaSens-... measures the parameters of wind speed, rainfall (yes/no) brightness (East/South/West), temperature, air humidity and twilight. The voltage outputs can be used to control external devices and/or to log analogue measurement data. The sensor combines the most important parameters which are necessary for the control and monitoring in the building automation, home automation, awnings and blinds control and greenhouse control in an ideal way. The compact design allows a simple and inconspicuous installation. All external parts are corrosion-proof made of high-quality plastic. The F-ClimaSens-... also has a serial interface (RS 422/485), a DCF77 receiver for time/date as well as a condensation protection (heating).

TECHNICAL DATA

Voltage	16...24 V AC / 16...28 V DC
Current consumption	Approx. 250 mA with dewfall protection
Electrical connection	Connection cable 10 m; LiYCY 16x0.14 mm²; UV-resistant
Cable length	Max. 100 m at supply of nominal 24 V and min. 0.5 mm² wire cross-section
Electr. output precipitation	0/10 V (precipitation yes “active”/precipitation no “passive”); load resistance ≥ 100 kΩ
Electr. output brightness	3 x 0...10 V (3 x 0...150 kLux), east-/ south-/west direction; load resistance ≥ 10 kΩ
Electr. output twilight	0...10 V (0...250 Lux); load resistance ≥ 10 kΩ
Measuring range precipitation	Precipitation yes/no
Sensitivity precipitation	0.25 mm/h
Switch-off delay precipitation	Approx. 2 min
Measuring range brightness	0...150 kLux
Spectral range brightness	700...1050 nm
Accuracy brightness	± 3 % of measuring range
Measuring range twilight	0...250 Lux
Spectral range twilight	700...1050 nm
Accuracy twilight	± 5 % of measuring range
Mounting	With stainless steel clip (included in scope of delivery) on mast or wall.
Weight	Max. 1.5 kg
Dimensions	Diameter 130 x 215 mm
Operating temperature	-40...+60 °C
Standards/rules/guidelines/ approvals	EN 61326-1 with EN 61000-4-3 according to EMC-directive or directive 2004/108/EC

TYPE

F-ClimaSens-D

Climate sensor

DIGICONTROL F-ClimaSens-DW

Data sheet number 81006

The climate sensor F-ClimaSens-... measures the parameters of wind speed, rainfall (yes/no) brightness (East/South/West), temperature, air humidity and twilight. The voltage outputs can be used to control external devices and/or to log analogue measurement data. The sensor combines the most important parameters which are necessary for the control and monitoring in the building automation, home automation, awnings and blinds control and greenhouse control in an ideal way. The compact design allows a simple and inconspicuous installation. All external parts are corrosion-proof made of high-quality plastic. The F-ClimaSens-... also has a serial interface (RS 422/485), a DCF77 receiver for time/date as well as a condensation protection (heating).

TECHNICAL DATA

Voltage	16...24 V AC / 16...28 V DC
Current consumption	Approx. 250 mA with dewfall protection
Electrical connection	Connection cable 10 m; LiYCY 16x0.14 mm²; UV-resistant
Cable length	Max. 100 m at supply of nominal 24 V and min. 0.5 mm² wire cross-section
Electr. output precipitation	0/10 V (precipitation yes “active”/precipitation no “passive”); load resistance ≥ 100 kΩ
Electr. output brightness	3 x 0...10 V (3 x 0...150 kLux), east-/ south-/west direction; load resistance ≥ 10 kΩ
Electr. output twilight	0...10 V (0...250 Lux); load resistance ≥ 10 kΩ
Electr. output wind speed	0...10 V (0...40 m/s); load resistance ≥ 10 kΩ
Measuring range precipitation	Precipitation yes/no
Sensitivity precipitation	0.25 mm/h
Switch-off delay precipitation	Approx. 2 min
Measuring range brightness	0...150 kLux
Spectral range brightness	700...1050 nm
Accuracy brightness	± 3 % of measuring range
Measuring range twilight	0...250 Lux
Spectral range twilight	700...1050 nm
Accuracy twilight	± 5 % of measuring range
Measuring range wind speedbrightness	1...40 m/s
Accuracy wind speed	± 0.5 m/s resp. ± 5 % of measuring range
Mounting	With stainless steel clip (included in scope of delivery) on mast or wall.
Weight	Max. 1.5 kg
Dimensions	Diameter 130 x 335 mm
Operating temperature	-40...+60 °C
Standards/rules/guidelines/ approvals	EN 61326-1 with EN 61000-4-3 according to EMC-directive or directive 2004/108/EC

TYPE

F-ClimaSens-DW

Climate sensor

DIGICONTROL F-ClimaSens-DTF

Data sheet number 81006

The climate sensor F-ClimaSens-... measures the parameters of wind speed, rainfall (yes/no) brightness (East/South/West), temperature, air humidity and twilight. The voltage outputs can be used to control external devices and/or to log analogue measurement data. The sensor combines the most important parameters which are necessary for the control and monitoring in the building automation, home automation, awnings and blinds control and greenhouse control in an ideal way. The compact design allows a simple and inconspicuous installation. All external parts are corrosion-proof made of high-quality plastic. The F-ClimaSens-... also has a serial interface (RS 422/485), a DCF77 receiver for time/date as well as a condensation protection (heating).

TECHNICAL DATA

Voltage	16...24 V AC / 16...28 V DC
Current consumption	Approx. 250 mA with dewfall protection
Electrical connection	Connection cable 10 m; LiYCY 16x0.14 mm²; UV-resistant
Cable length	Max. 100 m at supply of nominal 24 V and min. 0.5 mm² wire cross-section
Electr. output precipitation	0/10 V (precipitation yes “active”/precipitation no “passive”); load resistance ≥ 100 kΩ
Electr. output brightness	3 x 0...10 V (3 x 0...150 kLux), east-/ south-/west direction; load resistance ≥ 10 kΩ
Electr. output twilight	0...10 V (0...250 Lux); load resistance ≥ 10 kΩ
Electr. output temperature	0...10 V (-20...+60 °C); load resistance ≥ 10 kΩ
Electr. output humidity	0...10 V (0...100 % r.h.); load resistance ≥ 10 kΩ
Measuring range precipitation	Precipitation yes/no
Sensitivity precipitation	0.25 mm/h
Switch-off delay precipitation	Approx. 2 min
Measuring range brightness	0...150 kLux
Spectral range brightness	700...1050 nm
Accuracy brightness	± 3 % of measuring range
Measuring range twilight	0...250 Lux
Spectral range twilight	700...1050 nm
Accuracy twilight	± 5 % of measuring range
Measuring range temperature	-20...+60 °C
Measuring element temperature	Pt100 1/3 DIN
Accuracy temperature	± 0.5 K @ wind speed > 2.5 m/s
Measuring range humidity	0...100 % rh.
Accuracy humidity	± 3 % in the range of 10...90 % r.h. @ wind speed > 2.5 m/s
Mounting	With stainless steel clip (included in scope of delivery) on mast or wall.
Weight	Max. 1.5 kg
Dimensions	Diameter 130 x 310 mm
Operating temperature	-40...+60 °C
Standards/rules/guidelines/ approvals	EN 61326-1 with EN 61000-4-3 according to EMC-directive or directive 2004/108/EC

TYPE

F-ClimaSens-DTF

Climate sensor

DIGICONTROL F-ClimaSens-DWTF

Data sheet number 81006

The climate sensor F-ClimaSens-... measures the parameters of wind speed, rainfall (yes/no) brightness (East/South/West), temperature, air humidity and twilight. The voltage outputs can be used to control external devices and/or to log analogue measurement data. The sensor combines the most important parameters which are necessary for the control and monitoring in the building automation, home automation, awnings and blinds control and greenhouse control in an ideal way. The compact design allows a simple and inconspicuous installation. All external parts are corrosion-proof made of high-quality plastic. The F-ClimaSens-... also has a serial interface (RS 422/485), a DCF77 receiver for time/date as well as a condensation protection (heating).

TECHNICAL DATA

Voltage	16...24 V AC / 16...28 V DC
Current consumption	Approx. 250 mA with dewfall protection
Electrical connection	Connection cable 10 m; LiYCY 16x0.14 mm²; UV-resistant
Cable length	Max. 100 m at supply of nominal 24 V and min. 0.5 mm² wire cross-section
Electr. output precipitation	0/10 V (precipitation yes “active”/precipitation no “passive”); load resistance ≥ 100 kΩ
Electr. output brightness	3 x 0...10 V (3 x 0...150 kLux), east-/ south-/west direction; load resistance ≥ 10 kΩ
Electr. output twilight	0...10 V (0...250 Lux); load resistance ≥ 10 kΩ
Electr. output wind speed	0...10 V (0...40 m/s); load resistance ≥ 10 kΩ
Electr. output temperature	0...10 V (-20...+60 °C); load resistance ≥ 10 kΩ
Electr. output humidity	0...10 V (0...100 % r.h.); load resistance ≥ 10 kΩ
Measuring range precipitation	Precipitation yes/no
Sensitivity precipitation	0.25 mm/h
Switch-off delay precipitation	Approx. 2 min
Measuring range brightness	0...150 kLux
Spectral range brightness	700...1050 nm
Accuracy brightness	± 3 % of measuring range
Measuring range twilight	0...250 Lux
Spectral range twilight	700...1050 nm
Measuring range wind speedbrightness	1...40 m/s
Accuracy twilight	± 5 % of measuring range
Accuracy wind speed	± 0.5 m/s resp. ± 5 % of measuring range
Measuring range temperature	-20...+60 °C
Measuring element temperature	Pt100 1/3 DIN
Accuracy temperature	± 0.5 K @ wind speed > 2.5 m/s
Measuring range humidity	0...100 % rh.
Accuracy humidity	± 3 % in the range of 10...90 % r.h. @ wind speed > 2.5 m/s
Mounting	With stainless steel clip (included in scope of delivery) on mast or wall.
Weight	Max. 1.5 kg
Dimensions	Diameter 130 x 430 mm
Operating temperature	-40...+60 °C
Standards/rules/guidelines/ approvals	EN 61326-1 with EN 61000-4-3 according to EMC-directive or directive 2004/108/EC

TYPE

F-ClimaSens-DWTF

Small globe valves of cast brass with threaded connection | PN16 | up to 120 °C

DIGICONTROL V-VUL...

Data sheet number 85002

Used in combination with S-KVA drive for unit valves for the control of heating zones, air secondary-treatment appliances and fan convectors. Valve and drive are assembled either by simply screwing together or by using the bayonet fitting. Nickel-plated (DN 10) valve body of cast brass, DN15 and DN20 of gunmetal with male thread, without cap nut. Spindle of stainless steel with soft-sealing valve cone. Characteristic line is approximately equal percentage. Stuffing box with double O-ring seal. The through valve is closed when the spindle is pressed in.

TECHNICAL DATA

Pressure stage	PN16
Overall length	In accordance with DIN 3841 T1
Leakage rate	0,0001 % of kvs
Characteristic line	Equal percentage
Cone	With soft seal made of EPDM
Bung socket	With double O-ring seal
Spindle	Stainless steel
Operating pressure	16 bar
Mounting	Male thread as per DIN EN ISO 228-1, Class B
Housing	Made of nickel-plated brass casting for DN10 and gun metal for DN15 and DN20
Operating temperature	+2...+120 °C

TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	STROKE	CONNECTION
V-VUL10-0,16	DN 10	0.16 m^3/h	4 mm	G 1/2 B
V-VUL10-0,40	DN 10	0.4 m^3/h	4 mm	G 1/2 B
V-VUL10-0,63	DN 10	0.63 m^3/h	4 mm	G 1/2 B
V-VUL10-1,00	DN 10	1.0 m^3/h	4 mm	G 1/2 B
V-VUL10-1,60	DN 10	1.6 m^3/h	4 mm	G 1/2 B
V-VUL15-3,50	DN 15	3.5 m^3/h	4 mm	G 3/4 B
V-VUL15-2,50	DN 15	2.5 m^3/h	4 mm	G 3/4 B
V-VUL20-4,50	DN 20	4.5 m^3/h	4 mm	G 1 B

ACCESSORY

TYPE	DESCRIPTION
0378133010	1 threaded sleeve, R3/8 flat seal DN10 with cap nut and flat seal
0378133015	1 threaded sleeve, R1/2 flat seal DN15 with cap nut and flat seal
0378133020	1 threaded sleeve, R3/4 flat seal DN20 with cap nut and flat seal

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ACCESSORY

TYPE	DESCRIPTION
0378134010	1 solder nipple, Ø 12; flat seal DN10, with cap nut and flat seal
0378134015	1 solder nipple, Ø 15; flat seal DN15, with cap nut and flat seal
0378134020	1 solder nipple, Ø 22; flat seal DN20, with cap nut and flat seal

Small three-way valve with threaded connection | PN16 | up to 120 °C

DIGICONTROL V-BUL...

Data sheet number 85003

Used as a mixing, diverting or change-over valve in conjunction with S-KVA... drive for unit valves for controlling heating zones, air secondary-treatment appliances, fan convectors and two-wire systems with heat exchanger. Valve and drive are assembled either by simply screwing together or by using the bayonet fitting. Nickel-plated valve body of cast brass, with male thread, without cap nut. Spindle of stainless steel with soft-sealing valve cone for control load and proportioning load. Characteristic curve approximately equal percentage. The flow through the mixing passage has been reduced by 30%. Stuffing box with double O-ring seal. The control passage A-AB is closed when the spindle is pressed in.

TECHNICAL DATA

Pressure stage	PN16
Leakage rate	Control passage A-AB 0,0001 % of kvs, mixing passage B-AB approx. 0,1 % of kvs
Characteristic line	■ Control passage equal-percentage ■ Mixing passage linear
Cone	With soft seal made of EPDM for control passage and mixing passage
Bung socket	With double O-ring seal
Spindle	Stainless steel
Operating pressure	16 bar
Mounting	Male thread as per DIN EN ISO 228-1, Class B
Housing	Made of nickel-plated brass
Operating temperature	+2...+120 °C

TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	STROKE	CONNECTION
V-BUL010-0,40	DN 10	0.4 m^3/h	3.7 mm	G 1/2 B
V-BUL010-0,63	DN 10	0.63 m^3/h	3.7 mm	G 1/2 B
V-BUL010-1,00	DN 10	1.0 m^3/h	3.7 mm	G 1/2 B
V-BUL010-1,60	DN 10	1.6 m^3/h	3.7 mm	G 1/2 B
V-BUL015-2,50	DN 15	2.5 m^3/h	3.7 mm	G 3/4 B
V-BUL015-4,00	DN 15	4.0 m^3/h	3.7 mm	G 1/2 B
V-BUL020-5,00	DN 20	5.0 m^3/h	3.7 mm	G 1 B

ACCESSORY

TYPE	DESCRIPTION
0378133010	1 threaded sleeve, R3/8 flat seal DN10 with cap nut and flat seal
0378133015	1 threaded sleeve, R1/2 flat seal DN15 with cap nut and flat seal

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ACCESSORY

TYPE	DESCRIPTION
0378133020	1 threaded sleeve, R3/4 flat seal DN20 with cap nut and flat seal
0378134010	1 solder nipple, Ø 12; flat seal DN10, with cap nut and flat seal
0378134015	1 solder nipple, Ø 15; flat seal DN15, with cap nut and flat seal
0378134020	1 solder nipple, Ø 22; flat seal DN20, with cap nut and flat seal

Thermoelectr. Actuators with Positioner for small Valves, continuous, 24 V

DIGICONTROL S-KVA-SA | S-KVA-SD

Data sheet number 84007

Thermoelectric actuators fo the discrete control of heating and cooling systems in direct proportion to the applied control voltage. The control of the actuators is performed by a 0...10 V DC signal via an automation station of series DIGICONTROL ems... or a room controller of series DIGICONTROL R4D.

Features:

- Modern design
- Short response times, resulting in improved control response
- Closing point verification and possible adaptation during operation
- Complete compatibility to the valve adapter system
- Simple plug-in installation
- 360 degree installation position
- Patented 100 % protection in case of leaky valves
- First open function
- Adaptation check on the valve
- Plug-in connecting cable
- Alignment aid on the valve
- Compact size, small dimensions
- All-round function display
- Noiseless and maintenance-free
- High functional safety and long service life
- Certified by TÜV

TECHNICAL DATA

Control	0-10 V
Resistance of control voltage input	100 kΩ
Actuating time	30 s/mm
Control direction	NC (normally closed)
Overvoltage strength	Min. 1 kV (according to EN 60730-1)
Media temperature	0...+100 °C
Inrush current	< 320 mA during max. 2 minutes
Mounting	Connection line 3x 0.22 mm² PVC / white / 1 m / plug-in
Weight	111 g
Housing	Material: Polyamide, colour white (RAL 9003)
Protection class	III
Protection class	IP54
Storage temperature	-25...+60 °C
Operating temperature	0...+60 °C
Standards/rules/guidelines/ approvals	EN 60730

TYPE LIST

TYPE	VOLTAGE	ACTUATOR TRAVEL	ACTUATING FORCE	POWER CONSUMPTION
S-KVA-SA	24 V AC, -10...+20 %, 50-60 Hz, 0...10 V	4.0 mm (optional 5.0 mm)	100 N	1 W
S-KVA-SD	24 V DC, -20...+20 %, 0...10 V	4.0 mm (optional 5.0 mm)	100 N	1 W

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TYPE LIST

TYPE	VOLTAGE	ACTUATOR TRAVEL	ACTUATING FORCE	POWER CONSUMPTION
S-KVA-SA-6_5	24 V AC, 0-10 V	6.5 mm	125 N	1.2 W
S-KVA-SD-6_5	24 V DC, 0-10 V	6.5 mm	125 N	1.2 W

ACCESSORY

TYPE	DESCRIPTION
S-KVA-VA16	Valve adapter for installation on Herz valves of type TS-90
S-KVA-VA39	Valve adapter for installation on Oventrop valves M30x1 (before 1997)
S-KVA-VA152HK	Valve adapter for installation on V-VARIO-DC
S-KVA-VA16H-SK	Valve adapter for installation on Herz valves of type TS-90 Please note: Only when using the protective cover S-KVA-SK1004.
S-KVA-VA39H-SK	Valve adapter for installation on Oventrop valves M30x1 (before 1997) Please note: Only when using the protective cover S-KVA-SK1004.
S-KVA-VA59H-SK	Valve adapter for installation on Danfoss valves of type RAVL (d=26mm) Please note: Only when using the protective cover S-KVA-SK1004.
S-KVA-VA78-SK	Valve adapter for installation on Danfoss valves of type RA 2000 (e.g. RA-N, d=22mm) Please note: Only when using the protective cover S-KVA-SK1004.
S-KVA-VA59	Valve adapter for installation on Danfoss valves of type RAVL (d=26mm)
S-KVA-VA72	Valve adapter for installation on Danfoss valves of type RAV (d=34mm) Please note: Using the protective cover S-KVA-SK1004 is not possible.
S-KVA-VA78	Valve adapter for installation on Danfoss valves of type RA 2000 (e.g. RA-N, d=22mm)
S-KVA-VA80	Valve adapter for installation on DIGICONTROL valves of type V-VUL..., V-BUL..., V-VXL... Valve adapter for installation on Oventrop valves M30x1.5
S-KVA-SK1004	Protective cover against vandalism and theft Please note: When using the protective cover, you always have to apply the corresponding valve adapter S-KVA-VA...-SK.
S-KVA-VA80H-SK	Valve adapter for installation on DIGICONTROL valves of type V-VUL..., V-BUL..., V-VXL... Valve adapter for installation on Oventrop valves M30x1.5 Please note: Only when using the protective cover S-KVA-SK1004.
S-KVA-VA41	Valve adapter for installation on DIGICONTROL valves of type V-AB-QM DN10 to DN32
S-KVA-VA41H-SK	Valve adapter for installation on DIGICONTROL valves of type V-AB-QM DN10 to DN32 Attention: Only when using the protective cap S-KVA-SK1004.

Thermoelectr. Actuator for small Valve, Two-Point, 24/230 V

DIGICONTROL S-KVA-B24 | S-KVA-B230

Data sheet number 84012

Thermoelectric actuators for opening and closing valves on heating circuit distributors of surface heating and cooling systems. The control of the actuators is performed by a two point output or pulse-width modulation signal via an automation station of series DIGICONTROL ems... or a room controller of series DIGICONTROL R4D.

Features:

- Modern design
- Complete compatibility to the valve adapter system
- Simple plug-in installation
- 360 degree installation position
- Patented 100 % protection in case of leaky valves
- First open function
- Adaptation check on the valve
- Alignment aid on the valve
- Compact size, small dimensions
- All-round function display
- Noiseless and maintenance-free
- High functional safety and long service life
- Surge protection guarantee
- Certified by TÜV

TECHNICAL DATA

Control	Two-point output or pulse-width modulation
Actuating time	Approx. 3.5 min
Control direction	NC (normally closed) optional NO (open when de-energized) possible
Overvoltage strength	Min. 2.5 kV (according to EN 60730-1)
Media temperature	0...+100 °C
Mounting	Connection line 2x 0.75 mm² PVC / light grey / 1 m
Housing	Material: Polyamide, colour light Grey (RAL 7035)
Weight	100 g
Protection class	IP54
Storage temperature	-25...+60 °C
Operating temperature	0...+60 °C
Standards/rules/guidelines/ approvals	EN 60730

TYPE LIST

TYPE	VOLTAGE	ACTUATOR TRAVEL	ACTUATING FORCE	POWER CONSUMPTION
S-KVA-B24	24 V AC/DC, -10...+20 %	4.0 mm (optional 5.0 mm)	100 N	1 W
S-KVA-B230	230 V AC, -10...+10 %, 50/60 Hz	4.0 mm (optional 5.0 mm)	100 N	1 W
S-KVA-B24-6_5	24 V NC	6.5 mm	125 N	1.2 W
S-KVA-B230-6_5	230 V NC	6.5 mm	125 N	1.2 W

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ACCESSORY

TYPE	DESCRIPTION
S-KVA-VA152HK	Valve adapter for installation on V-VARIO-DC
S-KVA-VA78-SK	Valve adapter for installation on Danfoss valves of type RA 2000 (e.g. RA-N, d=22mm) Please note: Only when using the protective cover S-KVA-SK1004.
S-KVA-VA41H-SK	Valve adapter for installation on DIGICONTROL valves of type V-AB-QM DN10 to DN32 Attention: Only when using the protective cap S-KVA-SK1004.
S-KVA-VA16	Valve adapter for installation on Herz valves of type TS-90
S-KVA-VA59	Valve adapter for installation on Danfoss valves of type RAVL (d=26mm)
S-KVA-VA80H-SK	Valve adapter for installation on DIGICONTROL valves of type V-VUL..., V-BUL..., V-VXL... Valve adapter for installation on Oventrop valves M30x1.5 Please note: Only when using the protective cover S-KVA-SK1004.
S-KVA-VA72	Valve adapter for installation on Danfoss valves of type RAV (d=34mm) Please note: Using the protective cover S-KVA-SK1004 is not possible.
S-KVA-VA39H-SK	Valve adapter for installation on Oventrop valves M30x1 (before 1997) Please note: Only when using the protective cover S-KVA-SK1004.
S-KVA-VA39	Valve adapter for installation on Oventrop valves M30x1 (before 1997)
S-KVA-VA80	Valve adapter for installation on DIGICONTROL valves of type V-VUL..., V-BUL..., V-VXL... Valve adapter for installation on Oventrop valves M30x1.5
S-KVA-SK1004	Protective cover against vandalism and theft Please note: When using the protective cover, you always have to apply the corresponding valve adapter S-KVA-VA...-SK.
S-KVA-VA59H-SK	Valve adapter for installation on Danfoss valves of type RAVL (d=26mm) Please note: Only when using the protective cover S-KVA-SK1004.
S-KVA-VA41	Valve adapter for installation on DIGICONTROL valves of type V-AB-QM DN10 to DN32
S-KVA-VA78	Valve adapter for installation on Danfoss valves of type RA 2000 (e.g. RA-N, d=22mm)
S-KVA-VA16H-SK	Valve adapter for installation on Herz valves of type TS-90 Please note: Only when using the protective cover S-KVA-SK1004.

Pressure-independent 6-way ball valve

DIGICONTROL V-SK-IQ...

Data sheet number 85608

V-SK-IQ... is an electronic pressure-independent 6-way control ball valve with integrated ultrasonic measuring unit for setting and controlling a heating/cooling consumer in 4-pipe systems. The control is pressure-independent through permanent flow rate monitoring without minimum differential pressure. Control, changeover und shut-off of the water quantities is performed via only one mobile component. Intelligent integrated flushing function by completely opening and switching off the pressure-independent control function. Control and regulation is analogue via 0-10 V, digital with BACnet or Modbus (selectable). Setting and reading of all parameters such as set point and current water quantities, flushing function, bus addressing, control signals, etc. is possible via Bluetooth with Smartphone, Modbus und BACnet MS/TP. The large Bluetooth range enables adjustment through ceilings, grids and from outside the room. LEDs provide visual indication of the status of power supply and comunication.

TECHNICAL DATA

Voltage	24 V AC (-20 % / +20 %), 50 Hz / 24 V DC (-10 % / +10 %)
Medium	Water (Glykol free)
Inputs	■ 0 - 10 Vdc (0.17 mA) ■ 0.5 - 4.5 Vdc heating mode 100 % - 0 % flow rate heating ■ 5.5 - 9.5 Vdc cooling mode 0 % - 100 % flow rate cooling
Media temperature	+5...+90 °C
Flow measurement	Permanent, ultrasound
Flow characteristic	Linear, equal-percentage
Leakage rate	Close-sealed
Power consumption	In operation 3 W (4 VA), in standby 1.5 W (2 VA)
Setting range	DN 15: 3-1400 l/h, DN 25: 3-2500 l/h
Accuracy	3 l/h
Mounting	6x external thread
Communication	RS 485, Modbus/RTU, BACnet MS/TP, Bluetooth 4.0ACn
Protection class	IP54
Standards/rules/guidelines/ approvals	CE according to 2004/108/EC

TYPE LIST

TYPE	PRESSURE STAGE	KVS
V-SK-IQ-15	PN16	1.4 m^3/h
V-SK-IQ-25	PN16	2.5 m^3/h

Actuator for 6-way ball valve

DIGICONTROL S-M106

Data sheet number 84850

Electrical drive for 6-way ball valve

Features:

- Microprocessor controlled with automatic self-calibration on start-up
- Wear-free distance measuring system - no potentiometer
- Wire break recognition in 2...10 V DC operation
- Fault recognition in continuous operation (in case of blockage by foreign bodies)
- Manual override
- Changeover from manual to automatic mode
- Rotation direction indicator

TECHNICAL DATA

Voltage	■ 230 V AC +6 % / -10 % ■ 24 V AC +/- 10 %
Outputs	0...10 V, max. 8 mA
Inputs	0(2)...10 V DC
Frequency	50/60 ± 5 % Hz
Power consumption	3.5 VA
Electrical connection	Actuator with 1.5 m cable (flexible)
Actuating time	130 s/mm
Angle of rotation	90°
Torque	6 Nm
Operating mode	S4-50 % ED c/h 1200 EN60034-1
Protection class	IP43
Ambient temperature	0...50 °C

TYPE

S-M106

Thermostatic valve with dynamic thermostatic valve insert

DIGICONTROL V-VARIO-DP...

Data sheet number 85609

The V-VARIO-DP... is a dynamic, adjustable thermostatic valve with a wide setting range. With its patented capsule spring, it automatically controls the flow rate to the amount of water set at the valve, independent of pressure fluctuations in heating and cooling networks. High operational reliability through functional, simple design. The water quantity is adjusted with a key, valve insert can be replaced with mounting device without emptying the system under operating pressure.

TECHNICAL DATA

Pressure stage	PN10
Setting range	20 - 340 l/h
Mounting	Screw connection M 30 x 1.5 mm
Housing	Gunmetal, nickel-plated
Operating temperature	Max. +120 °C
Other remarks	Valve spindle with double O-ring sealing, sealing element maintenance-free, with mounting cap

TYPE LIST

TYPE	DIAMETER NOMINAL	PRESSURE STAGE
V-VARIO-DP-10	DN 10	PN10
V-VARIO-DP-15	DN 15	PN10
V-VARIO-DP-20	DN 20	PN10

POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR			
	S-KVA-SA	**S-KVA-SD**	**S-KVA-B24**	**S-KVA-B230**
V-VARIO-DP-10	x	x	x	x
V-VARIO-DP-15	x	x	x	x
V-VARIO-DP-20	x	x	x	x

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DIGICONTROL V-VARIO-DC...

Data sheet number 85660

V-VARIO-DC is a pressure-independent control valve. It regulates the set volumetric flow independently of pressure fluctuations in the network. Setting independent of the valve lift for exact control over the entire input signal. The volume flow is infinitely adjustable via a fine adjustment wheel. Settings can be read from the outside. Connection M30 x 1.5 for drives of the S-KVA and VARIOPULSE-VP series.

TECHNICAL DATA

Medium	Water
Media temperature	-10...+120 °C
Pressure stage	PN25
Differential pressure	15 - 800 kPa
Housing	Brass casting

TYPE LIST

TYPE	DIAMETER NOMINAL	PRESSURE STAGE	KVS	CONNECTION
V-VARIO-DC-S15	DN 15	PN25	0,065 - 0,37 m³/h	3/4”
V-VARIO-DC-L15	DN 15	PN25	0,22 - 1,33 m³/h	G 3/4”
V-VARIO-DC-XL20	DN 20	PN25	0,3 - 1,8 m³/h	G 1”
V-VARIO-DC-XL25	DN 25	PN25	0,6 - 3,6 m³/h	G 1 1/4”
V-VARIO-DC-XL32	DN 32	PN25	0,55 - 4,0 m³/h	G 1/2”
V-VARIO-DC-L40	DN 40	PN25	1,37 - 9,5 m³/h	RP 1 1/2”
V-VARIO-DC-L50	DN 50	PN25	1,4 - 11,5 m³/h	RP 2”

POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	S-KVA-SD-6_5	**S-VARIOPULSE-VP**	**S-KVA-B230-6_5**	**S-KVA-SA-6_5**	**S-KVA-VA152HK**	**S-KVA-B24-6_5**
V-VARIO-DC-S15	x		x	x	x	x
V-VARIO-DC-L15	x		x	x	x	x
V-VARIO-DC-XL20	x		x	x	x	x
V-VARIO-DC-XL25	x		x	x	x	x

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POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	S-KVA-SD-6_5	S-VARIOPULSE-VP	S-KVA-B230-6_5	S-KVA-SA-6_5	S-KVA-VA152HK	S-KVA-B24-6_5
V-VARIO-DC-XL32	x		x	x	x	x
V-VARIO-DC-L40		x				
V-VARIO-DC-L50		x				

Actuator for pressure-independent control valve

DIGICONTROL S-VARIOPULSE-VP

Data sheet number 85665

S-VARIOPULSE-VP is an electromotive, microprocessor-controlled actuator with a control signal of 0 (2) - 10 V, switchable to 3-point, with position feedback, characteristic switchable from linear to equal percentage, direction of action reversible and operation switchable to manual mode.

TECHNICAL DATA

Control	0-10 V DC / 3 point
Actuating time	60 s (0-10 V) / 300 s (3 point)
Actuating force	400 N
Stroke	max. 32 mm
Protection class	IP54

TYPE

S-VARIOPULSE-VP

Electronic pressure-independent 2-way control ball valve

DIGICONTROL V-B2-IQ...

Data sheet number 85604

V-B2-IQ... is an electronic pressure-independent 2-way control ball valve with integrated ultrasonic measuring unit for exact setting and control of two different water quantities (e.g. heating/cooling) and integrated return temperature limitation. The control is pressure-independent via continuous flow rate monitoring, without minimum differential pressure via a mobile component. Integrated temperature sensors for measurement and storage of media temperature, spread and energy consumption in watt/h.Intelligent integrated flushing function by completely opening and switching off the pressure-independent control function. Control and regulation is analogue via 0-10 V, digital with BACnet or Modbus (switchable).Setting and reading of all parameters such as set point and present water quantities, flushing function, bus addressing, pending control signals, etc. via Bluetooth with Smartphone, Modbus and BACnet MS/TP. The large Bluetooth range allows setting through ceilings, grids and from outside the room. All sensors are MID certified according to the applicable standard EN 1431-4. The LEDs provide a visual indication of the status of power supply and communication. Switchable from automatic to manual (manual adjustment) via mechanical switch.

TECHNICAL DATA

Voltage	24 V AC/DC +/- 10 %
Medium	Water (Glykol free)
Inputs	0-10 V DC (0.17 mA)
Media temperature	+2...+100 °C
Flow characteristic	Adjustable as equal-percentage or linear
Connection	PN16 flange
Leakage rate	0.001 % of kvs
Power consumption	3 W (4 VA) in operation / 1.5 W (2 VA) standby
Housing	Polypropylene, steel
Protection class	IP54
Other remarks	- Maintenance-free, no calibration necessary - BACnet/Modbus interface

TYPE LIST

TYPE	KVS
V-B2-IQ-DN65	48.8 m^3/h
V-B2-IQ-DN80	70.7 m^3/h
V-B2-IQ-DN100	114.4 m^3/h
V-B2-IQ-DN150	272.2 m^3/h

Electronic pressure-independent 3-way control ball valve

DIGICONTROL V-B3-IQ...

Data sheet number 85603

V-B3-IQ... is an electronic pressure-independent 3-way mixer ball valve with integrated ultrasonic measuring unit for exact setting and control of two different water volumes (e.g. heating/ccoling) and integrated return temperature limitation. The control is pressure-independent via continuous flow rate monitoring, without minimum differential pressure via only one mobile component. Integrated temperature sensors for measurement and storage of media temperature, spread and energy consumption in watt/h. Intelligent integrated flushing function by completely opening and switching off the pressure-independent control function. Control and regulation is analogue via 0-10 V, digital with BACnet or Modbus (switchable). Setting and reading of all parameters such as set point and current water quantities, flushing function, bus addressing, pending control signals, etc. via Bluetooth with Smartsphone, Modbus and BACnet MS/TP. The large Bluetooth range allows setting through ceilings, grids and from outside the room. All sensors are MID certifed according to the applicable standard EN 1431-4. The LEDs provide a visual indication of the status of power supply and communication. Switchable from automatic to manual (manual adjustment) via mechanical switch.

TECHNICAL DATA

Voltage	24 V AC/DC +/- 10 %
Medium	Water (Glykol free)
Inputs	0-10 V DC (0.17 mA)
Media temperature	+2...+100 °C
Flow characteristic	Adjustable as equal-percentage or linear
Connection	DN15 - DN50: Input side - Flat sealing with ISO screw connection Output side - Internal thread ISO 7/1 (Rp) DN65 - DN150: Flange PN16
Leakage rate	0.001 % of kvs
Power consumption	3 W (4 VA) in operation / 1.5 W (2 VA) standby
Communication	Bluetooth, 0-10 V; Modbus; BACnet MS/TP
Housing	Polypropylene, steel
Protection class	IP54
Other remarks	- Maintenance-free, no calibration necessary - BACnet/Modbus interface

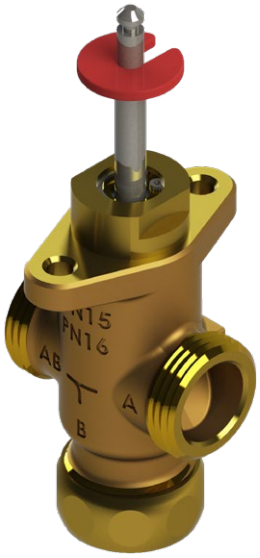
TYPE LIST

TYPE	KVS
V-B3-IQ-DN15	3.3 m^3/h
V-B3-IQ-DN20	5.7 m^3/h
V-B3-IQ-DN25	8.1 m^3/h
V-B3-IQ-DN32	10.5 m^3/h
V-B3-IQ-DN40	19.7 m^3/h
V-B3-IQ-DN50	25.0 m^3/h
V-B3-IQ-DN65	48.8 m^3/h
V-B3-IQ-DN80	70.7 m^3/h
V-B3-IQ-DN100	114.4 m^3/h
V-B3-IQ-DN150	272.2 m^3/h

Two-way valves of red brass with screwed connection | PN16 | up to 150 °C

DIGICONTROL V-BR216RA

Data sheet number 85133



Can be used in heating, ventilation and air-conditioning systems to control the hot and cold water flow from 0...+150 °C. The valves should only be mounted in horizontal position above 130 °C. With stem heater suitable for water with antifreeze compounds down to -15 °C. The valves are tightly closed in the end positions.

TECHNICAL DATA

Pressure stage	PN16
Rangeability	■ DN 15: 50:1 ■ DN 20-50: 100:1
Leakage rate	EN 1349 – seat-leakage VI G 1 (tight sealing)
Characteristic line	A -> AB equal %
Cone	Brass CW614N
Spindle	CrMo-steel 1.4122
Stem sealing	O-rings EPDM
Mounting	Male thread as per DIN EN ISO 228-1, Class B
Housing	Red brass CC491K

TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	STROKE	CONNECTION
V-BR216RA-15-0,63	DN 15	0.63 m³/h	12 mm	G 1”
V-BR216RA-15-1,0	DN 15	1.0 m³/h	12 mm	G 1”
V-BR216RA-15-1,25	DN 15	1.25 m³/h	12 mm	G 1”
V-BR216RA-15-1,6	DN 15	1.6 m³/h	12 mm	G 1”
V-BR216RA-15-2,5	DN 15	2.5 m³/h	12 mm	G 1”
V-BR216RA-15-4	DN 15	4.0 m³/h	12 mm	G 1”
V-BR216RA-20-5	DN 20	5.0 m³/h	12 mm	G 1 1/4”
V-BR216RA-20-6,3	DN 20	6.3 m³/h	12 mm	G 1 1/4”
V-BR216RA-25-8	DN 25	8.0 m³/h	14 mm	G 1 1/2”
V-BR216RA-25-10	DN 25	10.0 m³/h	14 mm	G 1 1/2”
V-BR216RA-32-12,5	DN 32	12.5 m³/h	14 mm	G 2”
V-BR216RA-32-16	DN 32	16.0 m³/h	14 mm	G 2”
V-BR216RA-40-20	DN 40	20.0 m³/h	14 mm	G 2 1/4”
V-BR216RA-40-25	DN 40	25.0 m³/h	14 mm	G 2 1/4”
V-BR216RA-50-31,5	DN 50	31.5 m³/h	14 mm	G 2 3/4”
V-BR216RA-50-40	DN 50	40.0 m³/h	14 mm	G 2 3/4”

ACCESSORY

TYPE	DESCRIPTION
V-VS-GG15-2	Fitting set cast iron DN 15 with inside thread.

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ACCESSORY

TYPE	DESCRIPTION
V-VS-GG20-2	Fitting set cast iron DN 20 with inside thread
V-VS-GG25-2	Fitting set cast iron DN 25 with inside thread
V-VS-GG32-2	Fitting set cast iron DN 32 with inside thread
V-VS-GG40-2	Fitting set cast iron DN 40 with inside thread
V-VS-GG50-2	Fitting set cast iron DN 50 with inside thread

POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR		
	ΔPMAX S-MC55	ΔPMAX S-MC100	ΔPMAX S-MC160
V-BR216RA-15-0,63	1500 kPa	1600 kPa	-
V-BR216RA-15-1,0	1500 kPa	1600 kPa	-
V-BR216RA-15-1,25	1500 kPa	1600 kPa	-
V-BR216RA-15-1,6	1500 kPa	1600 kPa	-
V-BR216RA-15-2,5	1500 kPa	1600 kPa	-
V-BR216RA-15-4	1500 kPa	1600 kPa	-
V-BR216RA-20-5	1250 kPa	1600 kPa	-
V-BR216RA-20-6,3	1250 kPa	1600 kPa	-
V-BR216RA-25-8	750 kPa	1500 kPa	-
V-BR216RA-25-10	750 kPa	1500 kPa	-
V-BR216RA-32-12,5	450 kPa	900 kPa	1500 kPa
V-BR216RA-32-16	450 kPa	900 kPa	1500 kPa
V-BR216RA-40-20	250 kPa	550 kPa	950 kPa
V-BR216RA-40-25	250 kPa	550 kPa	950 kPa
V-BR216RA-50-31,5	150 kPa	350 kPa	600 kPa
V-BR216RA-50-40	150 kPa	350 kPa	600 kPa

Three-way valves of red brass with screwed connection | PN16 | up to 150 °C

DIGICONTROL V-BR316RA-...

Data sheet number 85133

Can be used in heating, ventilation and air-conditioning systems to control the hot and cold water flow from 0...+150 °C. The valves should only be mounted in horizontal position above 130 °C. With stem heater suitable for water with antifreeze compounds down to -15 °C. The valves are tightly closed in the end positions.

TECHNICAL DATA

Pressure stage	PN16
Rangeability	■ DN 15: 50:1 ■ DN 20-50: 100:1
Leakage rate	EN 1349 – seat-leakage VI G 1 (tight sealing)
Characteristic line	■ A -> AB equal percentage mod. ■ B -> AB linear
Cone	Brass CW614N
Spindle	CrMo-steel 1.4122
Stem sealing	O-rings EPDM
Mounting	Male thread as per DIN EN ISO 228-1, Class B
Housing	Red brass CC491K

TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	STROKE	CONNECTION
V-BR316RA-15-0,63	DN 15	0.63 m^3/h	12 mm	G 1”
V-BR316RA-15-1,0	DN 15	1.0 m^3/h	12 mm	G 1”
V-BR316RA-15-1,25	DN 15	1.25 m^3/h	12 mm	G 1”
V-BR316RA-15-1,6	DN 15	1.6 m^3/h	12 mm	G 1”
V-BR316RA-15-2,5	DN 15	2.5 m^3/h	12 mm	G 1”
V-BR316RA-15-4	DN 15	4.0 m^3/h	12 mm	G 1”
V-BR316RA-20-5	DN 20	5.0 m^3/h	12 mm	G 1 1/4”
V-BR316RA-20-6,3	DN 20	6.3 m^3/h	12 mm	G 1 1/4”
V-BR316RA-25-8	DN 25	8.0 m^3/h	14 mm	G 1 1/2”
V-BR316RA-25-10	DN 25	10.0 m^3/h	14 mm	G 1 1/2”
V-BR316RA-32-12,5	DN 32	12.5 m^3/h	14 mm	G 2”
V-BR316RA-32-16	DN 32	16.0 m^3/h	14 mm	G 2”
V-BR316RA-40-20	DN 40	20.0 m^3/h	14 mm	G 2 1/4”
V-BR316RA-40-25	DN 40	25.0 m^3/h	14 mm	G 2 1/4”
V-BR316RA-50-31,5	DN 50	31.5 m^3/h	14 mm	G 2 3/4”
V-BR316RA-50-40	DN 50	40.0 m^3/h	14 mm	G 2 3/4”

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ACCESSORY

TYPE	DESCRIPTION
V-VS-GG15-3	Fitting set cast iron DN 15 with inside thread
V-VS-GG20-3	Fitting set cast iron DN 20 with inside thread
V-VS-GG25-3	Fitting set cast iron DN 25 with inside thread
V-VS-GG32-3	Fitting set cast iron DN 32 with inside thread
V-VS-GG40-3	Fitting set cast iron DN 40 with inside thread
V-VS-GG50-3	Fitting set cast iron DN 50 with inside thread

POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR		
	ΔPMAX S-MC55	**ΔPMAX S-MC100**	**ΔPMAX S-MC160**
V-BR316RA-15-0,63	1500 kPa	1600 kPa	-
V-BR316RA-15-1,0	1250 kPa	1500 kPa	-
V-BR316RA-15-1,25	1250 kPa	1600 kPa	-
V-BR316RA-15-1,6	1500 kPa	1600 kPa	-
V-BR316RA-15-2,5	1500 kPa	1600 kPa	-
V-BR316RA-15-4	1500 kPa	1600 kPa	-
V-BR316RA-20-5	1250 kPa	1600 kPa	-
V-BR316RA-20-6,3	1250 kPa	1600 kPa	-
V-BR316RA-25-8	750 kPa	1500 kPa	-
V-BR316RA-25-10	750 kPa	1500 kPa	-
V-BR316RA-32-12,5	450 kPa	900 kPa	1500 kPa
V-BR316RA-32-16	450 kPa	900 kPa	1500 kPa
V-BR316RA-40-20	250 kPa	550 kPa	950 kPa
V-BR316RA-40-25	250 kPa	550 kPa	950 kPa
V-BR316RA-50-31,5	150 kPa	350 kPa	600 kPa
V-BR316RA-50-40	150 kPa	350 kPa	600 kPa

Two-way valves of cast iron with flanged connection | PN6 | up to 150 °C

DIGICONTROL V-BR206GF-...

Data sheet number 85143

For use in heating, ventilation and air conditioning systems to control the flow of hot and cold water from 0...+150 °C. Actuator position from 130 °C only horizontal permissible. With stem heater suitable for water with anti-freeze compounds down to -10 °C. The valves are tightly closed in the end positions.

TECHNICAL DATA

Pressure stage	PN6
Rangeability	■ DN 15: 50:1 ■ DN 20-150: 100:1
Overall length	EN 558-1 basic series 1
Leakage rate	EN 1349 – seat-leakage VI G 1 (tight sealing)
Characteristic line	A -> AB equal %
Cone	Brass CW614N
Spindle	CrMo-steel 1.4122
Stem sealing	O-rings EPDM
Mounting	Flanges acc. EN 1092-2 type 21
Housing	Cast iron EN-JL1040

TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	STROKE
V-BR206GF-15-0,63	DN 15	0.63 m^3/h	14 mm
V-BR206GF-15-1,25	DN 15	1.25 m^3/h	14 mm
V-BR206GF-15-1,6	DN 15	1.6 m^3/h	14 mm
V-BR206GF-15-2,5	DN 15	2.5 m^3/h	14 mm
V-BR206GF-15-4	DN 15	4.0 m^3/h	14 mm
V-BR206GF-20-5	DN 20	5.0 m^3/h	14 mm
V-BR206GF-20-6,3	DN 20	6.3 m^3/h	14 mm
V-BR206GF-25-8	DN 25	8.0 m^3/h	14 mm
V-BR206GF-25-10	DN 25	10.0 m^3/h	14 mm
V-BR206GF-32-12,5	DN 32	12.5 m^3/h	14 mm
V-BR206GF-32-16	DN 32	16.0 m^3/h	14 mm
V-BR206GF-40-20	DN 40	20.0 m^3/h	14 mm
V-BR206GF-40-25	DN 40	25.0 m^3/h	14 mm
V-BR206GF-50-31,5	DN 50	31.5 m^3/h	14 mm
V-BR206GF-50-40	DN 50	40.0 m^3/h	14 mm
V-BR206GF-65-50	DN 65	50.0 m^3/h	20 mm
V-BR206GF-65-63	DN 65	63.0 m^3/h	20 mm
V-BR206GF-80-80	DN 80	80.0 m^3/h	30 mm
V-BR206GF-80-100	DN 80	100.0 m^3/h	30 mm
V-BR206GF-100-125	DN 100	125.0 m^3/h	30 mm

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TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	STROKE
V-BR206GF-100-160	DN 100	160.0 m^3/h	30 mm

POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC55	ΔPMAX S-MC100	ΔPMAX S-MC160	ΔPMAX S-MC250	ΔPMAX S-MC500	ΔPMAX S-MC1000
V-BR206GF-15-0,63	600 kPa	600 kPa	-	-	-	-
V-BR206GF-15-1,25	600 kPa	600 kPa	-	-	-	-
V-BR206GF-15-1,6	600 kPa	600 kPa	-	-	-	-
V-BR206GF-15-2,5	600 kPa	600 kPa	-	-	-	-
V-BR206GF-15-4	600 kPa	600 kPa	-	-	-	-
V-BR206GF-20-5	600 kPa	600 kPa	-	-	-	-
V-BR206GF-20-6,3	600 kPa	600 kPa	-	-	-	-
V-BR206GF-25-8	600 kPa	600 kPa	-	-	-	-
V-BR206GF-25-10	600 kPa	600 kPa	-	-	-	-
V-BR206GF-32-12,5	450 kPa	600 kPa	600 kPa	-	-	-
V-BR206GF-32-16	450 kPa	600 kPa	600 kPa	-	-	-
V-BR206GF-40-20	250 kPa	550 kPa	600 kPa	-	-	-
V-BR206GF-40-25	250 kPa	550 kPa	600 kPa	-	-	-
V-BR206GF-50-31,5	150 kPa	350 kPa	600 kPa	-	-	-
V-BR206GF-50-40	150 kPa	350 kPa	600 kPa	-	-	-
V-BR206GF-65-50	-	150 kPa	350 kPa	600 kPa	600 kPa	-
V-BR206GF-65-63	-	150 kPa	350 kPa	600 kPa	600 kPa	-
V-BR206GF-80-80	-	-	230 kPa	350 kPa	600 kPa	-
V-BR206GF-80-100	-	-	230 kPa	350 kPa	600 kPa	-
V-BR206GF-100-125	-	-	140 kPa	250 kPa	500 kPa	-
V-BR206GF-100-160	-	-	140 kPa	250 kPa	500 kPa	-

Three-way valves of cast iron with flanged connection | PN6 | up to 150 °C

DIGICONTROL V-BR306GF-...

Data sheet number 85143

For use in heating, ventilation and air conditioning systems to control the flow of hot and cold water from 0...+150 °C. Actuator position from 130 °C only horizontal permissible. With stem heater suitable for water with anti-freeze compounds down to -10 °C. The valves are tightly closed in the end positions.

TECHNICAL DATA

Pressure stage	PN6
Rangeability	■ DN 15: 50:1 ■ DN 20-150: 100:1
Overall length	EN 558-1 basic series 1
Leakage rate	EN 1349 – seat-leakage VI G 1 (tight sealing)
Characteristic line	A -> AB equal % / B -> AB linear
Cone	Brass CW614N
Spindle	CrMo-steel 1.4122
Stem sealing	O-rings EPDM
Mounting	Flanges acc. EN 1092-2 type 21
Housing	Cast iron EN-JL1040

TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	STROKE
V-BR306GF-15-0,63	DN 15	0.63 m^3/h	14 mm
V-BR306GF-15-1,25	DN 15	1.25 m^3/h	14 mm
V-BR306GF-15-1,6	DN 15	1.6 m^3/h	14 mm
V-BR306GF-15-2,5	DN 15	2.5 m^3/h	14 mm
V-BR306GF-15-4	DN 15	4.0 m^3/h	14 mm
V-BR306GF-20-5	DN 20	5.0 m^3/h	14 mm
V-BR306GF-20-6,3	DN 20	6.3 m^3/h	14 mm
V-BR306GF-25-8	DN 25	8.0 m^3/h	14 mm
V-BR306GF-25-10	DN 25	10.0 m^3/h	14 mm
V-BR306GF-32-12,5	DN 32	12.5 m^3/h	14 mm
V-BR306GF-32-16	DN 32	16.0 m^3/h	14 mm
V-BR306GF-40-20	DN 40	20.0 m^3/h	14 mm
V-BR306GF-40-25	DN 40	25.0 m^3/h	14 mm
V-BR306GF-50-31,5	DN 50	31.5 m^3/h	14 mm
V-BR306GF-50-40	DN 50	40.0 m^3/h	14 mm
V-BR306GF-65-50	DN 65	50.0 m^3/h	20 mm
V-BR306GF-65-63	DN 65	63.0 m^3/h	20 mm
V-BR306GF-80-80	DN 80	80.0 m^3/h	30 mm
V-BR306GF-80-100	DN 80	100.0 m^3/h	30 mm
V-BR306GF-100-125	DN 100	125.0 m^3/h	30 mm

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TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	STROKE
V-BR306GF-100-160	DN 100	160.0 m^3/h	30 mm

POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC55	ΔPMAX S-MC100	ΔPMAX S-MC160	ΔPMAX S-MC250	ΔPMAX S-MC500	ΔPMAX S-MC1000
V-BR306GF-15-0,63	600 kPa	600 kPa	-	-	-	-
V-BR306GF-15-1,25	600 kPa	600 kPa	-	-	-	-
V-BR306GF-15-1,6	600 kPa	600 kPa	-	-	-	-
V-BR306GF-15-2,5	600 kPa	600 kPa	-	-	-	-
V-BR306GF-15-4	600 kPa	600 kPa	-	-	-	-
V-BR306GF-20-5	600 kPa	600 kPa	-	-	-	-
V-BR306GF-20-6,3	600 kPa	600 kPa	-	-	-	-
V-BR306GF-25-8	600 kPa	600 kPa	-	-	-	-
V-BR306GF-25-10	600 kPa	600 kPa	-	-	-	-
V-BR306GF-32-12,5	450 kPa	600 kPa	600 kPa	-	-	-
V-BR306GF-32-16	450 kPa	600 kPa	600 kPa	-	-	-
V-BR306GF-40-20	250 kPa	550 kPa	600 kPa	-	-	-
V-BR306GF-40-25	250 kPa	550 kPa	600 kPa	-	-	-
V-BR306GF-50-31,5	150 kPa	350 kPa	600 kPa	-	-	-
V-BR306GF-50-40	150 kPa	350 kPa	600 kPa	-	-	-
V-BR306GF-65-50	-	150 kPa	350 kPa	600 kPa	600 kPa	-
V-BR306GF-65-63	-	150 kPa	350 kPa	600 kPa	600 kPa	-
V-BR306GF-80-80	-	-	230 kPa	350 kPa	600 kPa	-
V-BR306GF-80-100	-	-	230 kPa	350 kPa	600 kPa	-
V-BR306GF-100-125	-	-	140 kPa	250 kPa	500 kPa	-
V-BR306GF-100-160	-	-	140 kPa	250 kPa	500 kPa	-

Two-way valves of cast iron with flanged connection | PN16 | up to 150 °C

DIGICONTROL V-BR216GF-...

Data sheet number 85153

For use in heating, ventilation and air conditioning systems to control the flow of hot and cold water from 0...+150 °C. Actuator position from 130 °C only horizontal permissible. With stem heater suitable for water with anti-freeze compounds down to -10 °C. The valves are tightly closed in the end positions.

TECHNICAL DATA

Pressure stage	PN16
Rangeability	■ DN 15: 50:1 ■ DN 20-150: 100:1
Overall length	EN 558-1 basic series 1
Leakage rate	EN 1349 – seat-leakage VI G 1 (tight sealing)
Characteristic line	A -> AB equal %
Cone	Brass CW614N
Spindle	CrMo-steel 1.4122
Stem sealing	O-rings EPDM
Mounting	Flanges acc. EN 1092-2 type 21
Housing	Cast iron EN-JL1040

TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	STROKE
V-BR216GF-15-0,63	DN 15	0.63 m^3/h	14 mm
V-BR216GF-15-1,25	DN 15	1.25 m^3/h	14 mm
V-BR216GF-15-1,6	DN 15	1.6 m^3/h	14 mm
V-BR216GF-15-2,5	DN 15	2.5 m^3/h	14 mm
V-BR216GF-15-4	DN 15	4.0 m^3/h	14 mm
V-BR216GF-20-5	DN 20	5.0 m^3/h	14 mm
V-BR216GF-20-6,3	DN 20	6.3 m^3/h	14 mm
V-BR216GF-25-8	DN 25	8.0 m^3/h	14 mm
V-BR216GF-25-10	DN 25	10.0 m^3/h	14 mm
V-BR216GF-32-12,5	DN 32	12.5 m^3/h	14 mm
V-BR216GF-32-16	DN 32	16.0 m^3/h	14 mm
V-BR216GF-40-20	DN 40	20.0 m^3/h	14 mm
V-BR216GF-40-25	DN 40	25.0 m^3/h	14 mm
V-BR216GF-50-31,5	DN 50	31.5 m^3/h	14 mm
V-BR216GF-50-40	DN 50	40.0 m^3/h	14 mm
V-BR216GF-65-50	DN 65	50.0 m^3/h	20 mm
V-BR216GF-65-63	DN 65	63.0 m^3/h	20 mm
V-BR216GF-80-80	DN 80	80.0 m^3/h	30 mm
V-BR216GF-80-100	DN 80	100.0 m^3/h	30 mm
V-BR216GF-100-125	DN 100	125.0 m^3/h	30 mm

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TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	STROKE
V-BR216GF-100-160	DN 100	160.0 m^3/h	30 mm
V-BR216GF-125-250	DN 125	250.0 m^3/h	50 mm
V-BR216GF-150-315	DN 150	315.0 m^3/h	50 mm

POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC55	ΔPMAX S-MC100	ΔPMAX S-MC160	ΔPMAX S-MC250	ΔPMAX S-MC500	ΔPMAX S-MC1000
V-BR216GF-15-0,63	1500 kPa	1600 kPa	-	-	-	-
V-BR216GF-15-1,25	1500 kPa	1600 kPa	-	-	-	-
V-BR216GF-15-1,6	1500 kPa	1600 kPa	-	-	-	-
V-BR216GF-15-2,5	1500 kPa	1600 kPa	-	-	-	-
V-BR216GF-15-4	1500 kPa	1600 kPa	-	-	-	-
V-BR216GF-20-5	1250 kPa	1600 kPa	-	-	-	-
V-BR216GF-20-6,3	1250 kPa	1600 kPa	-	-	-	-
V-BR216GF-25-8	750 kPa	1500 kPa	-	-	-	-
V-BR216GF-25-10	750 kPa	1500 kPa	-	-	-	-
V-BR216GF-32-12,5	450 kPa	900 kPa	1500 kPa	-	-	-
V-BR216GF-32-16	450 kPa	900 kPa	1500 kPa	-	-	-
V-BR216GF-40-20	250 kPa	550 kPa	950 kPa	-	-	-
V-BR216GF-40-25	250 kPa	550 kPa	950 kPa	-	-	-
V-BR216GF-50-31,5	150 kPa	350 kPa	600 kPa	-	-	-
V-BR216GF-50-40	150 kPa	350 kPa	600 kPa	-	-	-
V-BR216GF-65-50	-	150 kPa	350 kPa	600 kPa	1250 kPa	-
V-BR216GF-65-63	-	150 kPa	350 kPa	600 kPa	1250 kPa	-
V-BR216GF-80-80	-	-	230 kPa	350 kPa	850 kPa	-
V-BR216GF-80-100	-	-	230 kPa	350 kPa	850 kPa	-
V-BR216GF-100-125	-	-	140 kPa	250 kPa	500 kPa	-
V-BR216GF-100-160	-	-	140 kPa	250 kPa	500 kPa	-
V-BR216GF-125-250	-	-	-	160 kPa	370 kPa	800 kPa
V-BR216GF-150-315	-	-	-	120 kPa	270 kPa	550 kPa

Three-way valves of cast iron with flanged connection | PN16 | up to 150 °C

DIGICONTROL V-BR316GF-...

Data sheet number 85153

For use in heating, ventilation and air conditioning systems to control the flow of hot and cold water from 0...+150 °C. Actuator position from 130 °C only horizontal permissible. With stem heater suitable for water with anti-freeze compounds down to -10 °C. The valves are tightly closed in the end positions.

TECHNICAL DATA

Pressure stage	PN16
Rangeability	■ DN 15: 50:1 ■ DN 20-150: 100:1
Overall length	EN 558-1 basic series 1
Leakage rate	EN 1349 – seat-leakage VI G 1 (tight sealing)
Characteristic line	A -> AB equal % / B -> AB linear
Cone	Brass CW614N
Spindle	CrMo-steel 1.4122
Stem sealing	O-rings EPDM
Mounting	Flanges acc. EN 1092-2 type 21
Housing	Cast iron EN-JL1040

TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	STROKE
V-BR316GF-15-0,63	DN 15	0.63 m^3/h	14 mm
V-BR316GF-15-1,25	DN 15	1.25 m^3/h	14 mm
V-BR316GF-15-1,6	DN 15	1.6 m^3/h	14 mm
V-BR316GF-15-2,5	DN 15	2.5 m^3/h	14 mm
V-BR316GF-15-4	DN 15	4.0 m^3/h	14 mm
V-BR316GF-20-5	DN 20	5.0 m^3/h	14 mm
V-BR316GF-20-6,3	DN 20	6.3 m^3/h	14 mm
V-BR316GF-25-8	DN 25	8.0 m^3/h	14 mm
V-BR316GF-25-10	DN 25	10.0 m^3/h	14 mm
V-BR316GF-32-12,5	DN 32	12.5 m^3/h	14 mm
V-BR316GF-32-16	DN 32	16.0 m^3/h	14 mm
V-BR316GF-40-20	DN 40	20.0 m^3/h	14 mm
V-BR316GF-40-25	DN 40	25.0 m^3/h	14 mm
V-BR316GF-50-31,5	DN 50	31.5 m^3/h	14 mm
V-BR316GF-50-40	DN 50	40.0 m^3/h	14 mm
V-BR316GF-65-50	DN 65	50.0 m^3/h	20 mm
V-BR316GF-65-63	DN 65	63.0 m^3/h	20 mm
V-BR316GF-80-80	DN 80	80.0 m^3/h	30 mm
V-BR316GF-80-100	DN 80	100.0 m^3/h	30 mm
V-BR316GF-100-125	DN 100	125.0 m^3/h	30 mm

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TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	STROKE
V-BR316GF-100-160	DN 100	160.0 m^3/h	30 mm
V-BR316GF-125-250	DN 125	250.0 m^3/h	50 mm
V-BR316GF-150-315	DN 150	315.0 m^3/h	50 mm

POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC55	ΔPMAX S-MC100	ΔPMAX S-MC160	ΔPMAX S-MC250	ΔPMAX S-MC500	ΔPMAX S-MC1000
V-BR316GF-15-0,63	1500 kPa	1600 kPa	-	-	-	-
V-BR316GF-15-1,25	1500 kPa	1600 kPa	-	-	-	-
V-BR316GF-15-1,6	1250 kPa	1600 kPa	-	-	-	-
V-BR316GF-15-2,5	1500 kPa	1600 kPa	-	-	-	-
V-BR316GF-15-4	1500 kPa	1600 kPa	-	-	-	-
V-BR316GF-20-5	1250 kPa	1600 kPa	-	-	-	-
V-BR316GF-20-6,3	1250 kPa	1600 kPa	-	-	-	-
V-BR316GF-25-8	750 kPa	1500 kPa	-	-	-	-
V-BR316GF-25-10	750 kPa	1500 kPa	-	-	-	-
V-BR316GF-32-12,5	450 kPa	900 kPa	1500 kPa	-	-	-
V-BR316GF-32-16	450 kPa	900 kPa	1500 kPa	-	-	-
V-BR316GF-40-20	250 kPa	550 kPa	950 kPa	-	-	-
V-BR316GF-40-25	250 kPa	550 kPa	950 kPa	-	-	-
V-BR316GF-50-31,5	150 kPa	350 kPa	600 kPa	-	-	-
V-BR316GF-50-40	150 kPa	350 kPa	600 kPa	-	-	-
V-BR316GF-65-50	-	150 kPa	350 kPa	600 kPa	1250 kPa	-
V-BR316GF-65-63	-	150 kPa	350 kPa	600 kPa	1250 kPa	-
V-BR316GF-80-80	-	-	230 kPa	350 kPa	850 kPa	-
V-BR316GF-80-100	-	-	230 kPa	350 kPa	850 kPa	-
V-BR316GF-100-125	-	-	140 kPa	250 kPa	500 kPa	-
V-BR316GF-100-160	-	-	140 kPa	250 kPa	500 kPa	-
V-BR316GF-125-250	-	-	-	160 kPa	370 kPa	800 kPa
V-BR316GF-150-315	-	-	-	120 kPa	270 kPa	550 kPa

Two-way valves of cast iron with flanged connection | PN16 | up to 350 °C

DIGICONTROL V-BR216-...

Data sheet number 85162

Suitable in building and process engineering for various media 0...+200 °C. Suitable with stuffing box extension or stem seal with stainless steel bellow from -10...+350 °C and for austenitic cast steel from -30...+350 °C. Suitable with stem heater for water with antifreeze compounds down to -10 °C and for austenitic cast steel down to -30 °C.

TECHNICAL DATA

Pressure stage	PN16
Rangeability	≥ 50:1
Overall length	EN 558-1 basic series 1
Leakage rate	EN 1349 - seat-leakage IV L1 (≤ 0.01 % of kvs-value)
Characteristic line	Perforated plug: equal %, Option: linear
Cone	CrNi-steel 1.4057
Spindle	CrMo-steel 1.4122
Stem sealing	O-rings EPDM, FKM, Fluoraz or PTFE lip seals or pure graphite packing depending on medium and operating temperature
Mounting	Flanges acc. EN 1092-2 type 21
Housing	Cast iron EN-JL1040

TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	SPECIAL KVS VALUE	STROKE
V-BR216-125-125,0	DN 125	125.0 m³/h	•	60 mm
V-BR216-125-160,0	DN 125	160.0 m³/h		60 mm
V-BR216-125-200,0	DN 125	200.0 m³/h	•	60 mm
V-BR216-125-250,0	DN 125	250.0 m³/h		60 mm
V-BR216-150-200,0	DN 150	200.0 m³/h	•	60 mm
V-BR216-150-250,0	DN 150	250.0 m³/h		60 mm
V-BR216-150-315,0	DN 150	315.0 m³/h	•	60 mm
V-BR216-150-400,0	DN 150	400.0 m³/h		60 mm

POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC103	**ΔPMAX S-MC163**	**ΔPMAX S-MC253**	**ΔPMAX S-MC503**	**ΔPMAX S-MC1003**	**ΔPMAX S-MC1503**
V-BR216-125-125,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR216-125-160,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR216-125-200,0	-	-	-	290 kPa	500 kPa	950 kPa

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POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC103	ΔPMAX S-MC163	ΔPMAX S-MC253	ΔPMAX S-MC503	ΔPMAX S-MC1003	ΔPMAX S-MC1503
V-BR216-125-250,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR216-150-200,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR216-150-250,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR216-150-315,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR216-150-400,0	-	-	-	190 kPa	350 kPa	700 kPa

Three-way valves of cast iron with flanged connection | PN16 | up to 350 °C

DIGICONTROL V-BR316-...

Data sheet number 85162

Suitable in building and process engineering for various media 0...+200 °C. Suitable with stuffing box extension or stem seal with stainless steel bellow from -10...+350 °C and for austenitic cast steel from -30...+350 °C. Suitable with stem heater for water with antifreeze compounds down to -10 °C and for austenitic cast steel down to -30 °C.

TECHNICAL DATA

Pressure stage	PN16
Rangeability	≥ 50:1
Overall length	EN 558-1 basic series 1
Leakage rate	EN 1349 – seat-leakage VI G 1 (≤ 0,01 % of kvs-value)
Characteristic line	≥ DN 50: A->AB equal % mod. (Option: linear), B->AB linear
Cone	CrNi-steel 1.4057
Spindle	CrMo-steel 1.4122
Stem sealing	O-rings EPDM, FKM, Fluoraz or PTFE lip seals or pure graphite packing depending on medium and operating temperature
Mounting	Flanges acc. EN 1092-2 type 21
Housing	Cast iron EN-JL1040

TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	SPECIAL KVS VALUE	STROKE
V-BR316-125-125,0	DN 125	125.0 m³/h	•	60 mm
V-BR316-125-160,0	DN 125	160.0 m³/h	•	60 mm
V-BR316-125-200,0	DN 125	200.0 m³/h		60 mm
V-BR316-125-250,0	DN 125	250.0 m³/h		60 mm
V-BR316-150-200,0	DN 150	200.0 m³/h	•	60 mm
V-BR316-150-250,0	DN 150	250.0 m³/h	•	60 mm
V-BR316-150-315,0	DN 150	315.0 m³/h		60 mm
V-BR316-150-400,0	DN 150	400.0 m³/h		60 mm

POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC103	**ΔPMAX S-MC163**	**ΔPMAX S-MC253**	**ΔPMAX S-MC503**	**ΔPMAX S-MC1003**	**ΔPMAX S-MC1503**
V-BR316-125-125,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR316-125-160,0	-	-	-	290 kPa	500 kPa	950 kPa

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POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC103	ΔPMAX S-MC163	ΔPMAX S-MC253	ΔPMAX S-MC503	ΔPMAX S-MC1003	ΔPMAX S-MC1503
V-BR316-125-200,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR316-125-250,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR316-150-200,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR316-150-250,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR316-150-315,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR316-150-400,0	-	-	-	190 kPa	350 kPa	700 kPa

Two-way valves of spheroidal graphite with flanged connection | PN25 | up to 350 °C

DIGICONTROL V-BR225-...

Data sheet number 85162

Suitable in building and process engineering for various media 0...+200 °C. Suitable with stuffing box extension or stem seal with stainless steel bellow from -10...+350 °C and for austenitic cast steel from -30...+350 °C. Suitable with stem heater for water with antifreeze compounds down to -10 °C and for austenitic cast steel down to -30 °C.

TECHNICAL DATA

Pressure stage	PN25
Rangeability	≥ 50:1
Overall length	EN 558-1 basic series 1
Leakage rate	EN 1349 – seat-leakage VI G 1 (≤ 0,01 % of kvs-value)
Characteristic line	≤ DN 50: equal %, Option: linear
Cone	CrNi-steel 1.4057
Spindle	CrMo-steel 1.4122
Stem sealing	O-rings EPDM, FKM, Fluoraz or PTFE lip seals or pure graphite packing depending on medium and operating temperature
Mounting	Flanges acc. EN 1092-2 type 21
Housing	Spheroidal graphite EN-JS1024

TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	SPECIAL KVS VALUE	STROKE
V-BR225-15-0,16	DN 15	0.16 m^3/h		20 mm
V-BR225-15-0,25	DN 15	0.25 m^3/h		20 mm
V-BR225-15-0,40	DN 15	0.4 m^3/h		20 mm
V-BR225-15-0,63	DN 15	0.63 m^3/h		20 mm
V-BR225-15-1,0	DN 15	1.0 m^3/h		20 mm
V-BR225-15-1,25	DN 15	1.25 m^3/h		20 mm
V-BR225-15-1,60	DN 15	1.6 m^3/h		20 mm
V-BR225-15-2,50	DN 15	2.5 m^3/h		20 mm
V-BR225-15-4,0	DN 15	4.0 m^3/h		20 mm
V-BR225-20-2,5	DN 20	2.5 m^3/h	•	20 mm
V-BR225-20-4,0	DN 20	4.0 m^3/h		20 mm
V-BR225-20-5,0	DN 20	5.0 m^3/h	•	20 mm
V-BR225-20-6,3	DN 20	6.3 m^3/h		20 mm
V-BR225-25-5,0	DN 25	5.0 m^3/h	•	20 mm
V-BR225-25-6,3	DN 25	6.3 m^3/h		20 mm
V-BR225-25-8,0	DN 25	8.0 m^3/h	•	20 mm
V-BR225-25-10,0	DN 25	10.0 m^3/h		20 mm
V-BR225-32-8,0	DN 32	8.0 m^3/h	•	20 mm
V-BR225-32-10,0	DN 32	10.0 m^3/h		20 mm

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TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	SPECIAL KVS VALUE	STROKE
V-BR225-32-12,5	DN 32	12.5 m³/h	•	20 mm
V-BR225-32-16,0	DN 32	16.0 m³/h		20 mm
V-BR225-40-12,5	DN 40	12.5 m³/h	•	20 mm
V-BR225-40-16,0	DN 40	16.0 m³/h		20 mm
V-BR225-40-20,0	DN 40	20.0 m³/h	•	20 mm
V-BR225-40-25,0	DN 40	25.0 m³/h		20 mm
V-BR225-50-20,0	DN 50	20.0 m³/h	•	30 mm
V-BR225-50-25,0	DN 50	25.0 m³/h		30 mm
V-BR225-50-31,5	DN 50	31.5 m³/h	•	30 mm
V-BR225-50-40,0	DN 50	40.0 m³/h		30 mm
V-BR225-65-31,5	DN 65	31.5 m³/h	•	30 mm
V-BR225-65-40,0	DN 65	40.0 m³/h		30 mm
V-BR225-65-50,0	DN 65	50.0 m³/h	•	30 mm
V-BR225-65-63,0	DN 65	63.0 m³/h		30 mm
V-BR225-80-50,0	DN 80	50.0 m³/h	•	50 mm
V-BR225-80-63,0	DN 80	63.0 m³/h		50 mm
V-BR225-80-80,0	DN 80	80.0 m³/h	•	50 mm
V-BR225-80-100,0	DN 80	100.0 m³/h		50 mm
V-BR225-100-80,0	DN 100	80,0 m³/h	•	50 mm
V-BR225-100-100,0	DN 100	100.0 m³/h		50 mm
V-BR225-100-125,0	DN 100	125.0 m³/h	•	50 mm
V-BR225-100-160,0	DN 100	160.0 m³/h		50 mm
V-BR225-125-125,0	DN 125	125.0 m³/h	•	60 mm
V-BR225-125-160,0	DN 125	160.0 m³/h		60 mm
V-BR225-125-200,0	DN 125	200.0 m³/h	•	60 mm
V-BR225-125-250,0	DN 125	250.0 m³/h		60 mm
V-BR225-150-200,0	DN 150	200.0 m³/h	•	60 mm
V-BR225-150-250,0	DN 150	250.0 m³/h		60 mm
V-BR225-150-315,0	DN 150	315.0 m³/h	•	60 mm
V-BR225-150-400,0	DN 150	400.0 m³/h		60 mm

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POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR							
	ΔPMAX S-MC103	ΔPMAX S-MC103SE	ΔPMAX S-MC163	ΔPMAX S-MC253	ΔPMAX S-MC253SE	ΔPMAX S-MC503	ΔPMAX S-MC1003	ΔPMAX S-MC1503
V-BR225-15-0,16	3500 kPa	3500 kPa	4000 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR225-15-0,25	3500 kPa	3500 kPa	4000 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR225-15-0,40	3500 kPa	3500 kPa	4000 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR225-15-0,63	3500 kPa	3500 kPa	4000 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR225-15-1,0	3500 kPa	3500 kPa	4000 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR225-15-1,25	3500 kPa	3500 kPa	4000 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR225-15-1,60	3500 kPa	3500 kPa	4000 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR225-15-2,50	3500 kPa	3500 kPa	4000 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR225-15-4,0	1250 kPa	1250 kPa	2400 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR225-20-2,5	1250 kPa	1250 kPa	2400 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR225-20-4,0	1250 kPa	1250 kPa	2400 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR225-20-5,0	1250 kPa	1250 kPa	2400 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR225-20-6,3	1250 kPa	1250 kPa	2400 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR225-25-5,0	1050 kPa	1050 kPa	2050 kPa	3500 kPa	3700 kPa	4000 kPa	-	-
V-BR225-25-6,3	1050 kPa	1050 kPa	2050 kPa	3500 kPa	3700 kPa	4000 kPa	-	-
V-BR225-25-8,0	1050 kPa	1050 kPa	2050 kPa	3500 kPa	3700 kPa	4000 kPa	-	-
V-BR225-25-10,0	1050 kPa	1050 kPa	2050 kPa	3500 kPa	3700 kPa	4000 kPa	-	-
V-BR225-32-8,0	600 kPa	600 kPa	1250 kPa	2200 kPa	2300 kPa	4000 kPa	-	-
V-BR225-32-10,0	600 kPa	600 kPa	1250 kPa	2200 kPa	2300 kPa	4000 kPa	-	-
V-BR225-32-12,5	600 kPa	600 kPa	1250 kPa	2200 kPa	2300 kPa	3150 kPa	-	-

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POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR							
	ΔPMAX S-MC103	ΔPMAX S-MC103SE	ΔPMAX S-MC163	ΔPMAX S-MC253	ΔPMAX S-MC253SE	ΔPMAX S-MC503	ΔPMAX S-MC1003	ΔPMAX S-MC1503
V-BR225-32-16,0	600 kPa	600 kPa	1250 kPa	2200 kPa	2300 kPa	4000 kPa	-	-
V-BR225-40-12,5	350 kPa	350 kPa	750 kPa	1400 kPa	1500 kPa	3150 kPa	-	-
V-BR225-40-16,0	350 kPa	350 kPa	750 kPa	1400 kPa	1500 kPa	3150 kPa	-	-
V-BR225-40-20,0	350 kPa	350 kPa	750 kPa	1400 kPa	1500 kPa	3150 kPa	-	-
V-BR225-40-25,0	350 kPa	350 kPa	750 kPa	1400 kPa	1500 kPa	3150 kPa	-	-
V-BR225-50-20,0	-		450 kPa	850 kPa	900 kPa	1950 kPa	-	-
V-BR225-50-25,0	-		450 kPa	850 kPa	900 kPa	1950 kPa	-	-
V-BR225-50-31,5	-		450 kPa	850 kPa	900 kPa	1950 kPa	-	-
V-BR225-50-40,0	-		450 kPa	850 kPa	900 kPa	1950 kPa	-	-
V-BR225-65-31,5	-		300 kPa	540 kPa	560 kPa	1250 kPa	2150 kPa	-
V-BR225-65-40,0	-		300 kPa	540 kPa	560 kPa	1250 kPa	2150 kPa	4000 kPa
V-BR225-65-50,0	-		300 kPa	540 kPa	560 kPa	1250 kPa	2150 kPa	-
V-BR225-65-63,0	-		300 kPa	540 kPa	560 kPa	1250 kPa	2150 kPa	4000 kPa
V-BR225-80-50,0	-		-	350 kPa	350 kPa	850 kPa	1500 kPa	-
V-BR225-80-63,0	-		-	350 kPa	350 kPa	850 kPa	1500 kPa	2800 kPa
V-BR225-80-80,0	-		-	350 kPa	350 kPa	850 kPa	1500 kPa	-
V-BR225-80-100,0	-		-	350 kPa	350 kPa	850 kPa	1500 kPa	2800 kPa
V-BR225-100-80,0	-		-	200 kPa	200 kPa	500 kPa	950 kPa	-
V-BR225-100-100,0	-		-	200 kPa	200 kPa	500 kPa	950 kPa	1700 kPa
V-BR225-100-125,0	-		-	200 kPa	200 kPa	500 kPa	950 kPa	-

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POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR							
	ΔPMAX S-MC103	ΔPMAX S-MC103SE	ΔPMAX S-MC163	ΔPMAX S-MC253	ΔPMAX S-MC253SE	ΔPMAX S-MC503	ΔPMAX S-MC1003	ΔPMAX S-MC1503
V-BR225-100-160,0	-		-	200 kPa	200 kPa	500 kPa	950 kPa	1700 kPa
V-BR225-125-125,0	-		-	-		290 kPa	500 kPa	950 kPa
V-BR225-125-160,0	-		-	-		290 kPa	500 kPa	950 kPa
V-BR225-125-200,0	-		-	-		290 kPa	500 kPa	950 kPa
V-BR225-125-250,0	-		-	-		290 kPa	500 kPa	950 kPa
V-BR225-150-200,0	-		-	-		190 kPa	350 kPa	700 kPa
V-BR225-150-250,0	-		-	-		190 kPa	350 kPa	700 kPa
V-BR225-150-315,0	-		-	-		190 kPa	350 kPa	700 kPa
V-BR225-150-400,0	-		-	-		190 kPa	350 kPa	700 kPa

Three-way valves of spheroidal graphite with flanged connection | PN25 | up to 350 °C

DIGICONTROL V-BR325-...

Data sheet number 85162

Suitable in building and process engineering for various media 0...+200 °C. Suitable with stuffing box extension or stem seal with stainless steel bellow from -10...+350 °C and for austenitic cast steel from -30...+350 °C. Suitable with stem heater for water with antifreeze compounds down to -10 °C and for austenitic cast steel down to -30 °C.

TECHNICAL DATA

Pressure stage	PN25
Rangeability	≥ 50:1
Overall length	EN 558-1 basic series 1
Leakage rate	EN 1349 – seat-leakage VI G 1 (≤ 0,01 % of kvs-value)
Characteristic line	■ ≤ DN 40: A->AB equal % (Option: linear), B->AB linear ■ ≥ DN 50: A->AB equal % mod. (Option: linear), B->AB linear
Cone	CrNi-steel 1.4057
Spindle	CrMo-steel 1.4122
Stem sealing	O-rings EPDM, FKM, Fluoraz or PTFE lip seals or pure graphite packing depending on medium and operating temperature
Mounting	Flanges acc. EN 1092-2 type 21
Housing	Spheroidal graphite EN-JS1024

TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	SPECIAL KVS VALUE	STROKE
V-BR325-15-2,5	DN 15	2.5 m^3/h		20 mm
V-BR325-15-4,0	DN 15	4.0 m^3/h		20 mm
V-BR325-20-2,5	DN 20	2.5 m^3/h	•	20 mm
V-BR325-20-4,0	DN 20	4.0 m^3/h	•	20 mm
V-BR325-20-5,0	DN 20	5.0 m^3/h		20 mm
V-BR325-20-6,3	DN 20	6.3 m^3/h		20 mm
V-BR325-25-5,0	DN 25	5.0 m^3/h	•	20 mm
V-BR325-25-6,3	DN 25	6.3 m^3/h	•	20 mm
V-BR325-25-8,0	DN 25	8.0 m^3/h		20 mm
V-BR325-25-10,0	DN 25	10.0 m^3/h		20 mm
V-BR325-32-8,0	DN 32	8.0 m^3/h	•	20 mm
V-BR325-32-10,0	DN 32	10.0 m^3/h	•	20 mm
V-BR325-32-12,5	DN 32	12.5 m^3/h		20 mm
V-BR325-32-16,0	DN 32	16.0 m^3/h		20 mm
V-BR325-40-12,5	DN 40	12.5 m^3/h	•	20 mm
V-BR325-40-16,0	DN 40	16.0 m^3/h	•	20 mm

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TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	SPECIAL KVS VALUE	STROKE
V-BR325-40-20,0	DN 40	20.0 m³/h		20 mm
V-BR325-40-25,0	DN 40	25.0 m³/h		20 mm
V-BR325-50-20,0	DN 50	20.0 m³/h	•	30 mm
V-BR325-50-25,0	DN 50	25.0 m³/h	•	30 mm
V-BR325-50-31,5	DN 50	31.5 m³/h		30 mm
V-BR325-50-40,0	DN 50	40.0 m³/h		30 mm
V-BR325-65-31,5	DN 65	31.5 m³/h	•	30 mm
V-BR325-65-40,0	DN 65	40.0 m³/h	•	30 mm
V-BR325-65-50,0	DN 65	50.0 m³/h		30 mm
V-BR325-65-63,0	DN 65	63.0 m³/h		30 mm
V-BR325-80-50,0	DN 80	50.0 m³/h	•	50 mm
V-BR325-80-63,0	DN 80	63.0 m³/h	•	50 mm
V-BR325-80-80,0	DN 80	80.0 m³/h		50 mm
V-BR325-80-100,0	DN 80	100.0 m³/h		50 mm
V-BR325-100-80,0	DN 100	80.0 m³/h	•	50 mm
V-BR325-100-100,0	DN 100	100.0 m³/h	•	50 mm
V-BR325-100-125,0	DN 100	125.0 m³/h		50 mm
V-BR325-100-160,0	DN 100	160.0 m³/h		50 mm
V-BR325-125-125,0	DN 125	125.0 m³/h	•	60 mm
V-BR325-125-160,0	DN 125	160.0 m³/h	•	60 mm
V-BR325-125-200,0	DN 125	200.0 m³/h	•	60 mm
V-BR325-125-250,0	DN 125	250.0 m³/h	•	60 mm
V-BR325-150-200,0	DN 150	200.0 m³/h		60 mm
V-BR325-150-250,0	DN 150	250.0 m³/h		60 mm
V-BR325-150-315,0	DN 150	315.0 m³/h		60 mm
V-BR325-150-400,0	DN 150	400.0 m³/h		60 mm

POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC103	**ΔPMAX S-MC163**	**ΔPMAX S-MC253**	**ΔPMAX S-MC503**	**ΔPMAX S-MC1003**	**ΔPMAX S-MC1503**
V-BR325-15-2,5	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-

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◂ CONTINUED FROM PAGE 272

POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC103	ΔPMAX S-MC163	ΔPMAX S-MC253	ΔPMAX S-MC503	ΔPMAX S-MC1003	ΔPMAX S-MC1503
V-BR325-15-4,0	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR325-20-2,5	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR325-20-4,0	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR325-20-5,0	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR325-20-6,3	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR325-25-5,0	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR325-25-6,3	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR325-25-8,0	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR325-25-10,0	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR325-32-8,0	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR325-32-10,0	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR325-32-12,5	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR325-32-16,0	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR325-40-12,5	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR325-40-16,0	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR325-40-20,0	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR325-40-25,0	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR325-50-20,0	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR325-50-25,0	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR325-50-31,5	-	450 kPa	850 kPa	1950 kPa	-	-

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POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC103	ΔPMAX S-MC163	ΔPMAX S-MC253	ΔPMAX S-MC503	ΔPMAX S-MC1003	ΔPMAX S-MC1503
V-BR325-50-40,0	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR325-65-31,5	-	300 kPa	540 kPa	1250 kPa	2150 kPa	-
V-BR325-65-40,0	-	300 kPa	540 kPa	1250 kPa	2150 kPa	-
V-BR325-65-50,0	-	300 kPa	540 kPa	1250 kPa	2150 kPa	4000 kPa
V-BR325-65-63,0	-	300 kPa	540 kPa	1250 kPa	2150 kPa	4000 kPa
V-BR325-80-50,0	-	-	350 kPa	850 kPa	1500 kPa	-
V-BR325-80-63,0	-	-	350 kPa	850 kPa	1500 kPa	-
V-BR325-80-80,0	-	-	350 kPa	850 kPa	1500 kPa	2800 kPa
V-BR325-80-100,0	-	-	350 kPa	850 kPa	1500 kPa	2800 kPa
V-BR325-100-80,0	-	-	200 kPa	500 kPa	950 kPa	-
V-BR325-100-100,0	-	-	200 kPa	500 kPa	950 kPa	-
V-BR325-100-125,0	-	-	200 kPa	500 kPa	950 kPa	1700 kPa
V-BR325-100-160,0	-	-	200 kPa	500 kPa	950 kPa	1700 kPa
V-BR325-125-125,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR325-125-160,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR325-125-200,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR325-125-250,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR325-150-200,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR325-150-250,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR325-150-315,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR325-150-400,0	-	-	-	190 kPa	350 kPa	700 kPa

Two-way valves of cast steel with flanged connection | PN40 | up to 350 °C

DIGICONTROL V-BR240S-...

Data sheet number 85162

Suitable in building and process engineering for various media 0...+200 °C. Suitable with stuffing box extension or stem seal with stainless steel bellow from -10...+350 °C and for austenitic cast steel from -30...+350 °C. Suitable with stem heater for water with antifreeze compounds down to -10 °C and for austenitic cast steel down to -30 °C.

TECHNICAL DATA

Pressure stage	PN40
Rangeability	≥ 50:1
Overall length	EN 558-1 basic series 1
Leakage rate	EN 1349 – seat-leakage VI G 1 (≤ 0,01 % of kvs-value)
Characteristic line	■ ≤ DN 50: equal %, Option: linear ■ ≥ DN 65: equal % mod., Option: linear ■ Perforated plug: equal %, Option: linear
Cone	CrNi-steel 1.4057
Spindle	CrMo-steel 1.4122
Stem sealing	O-rings EPDM, FKM, Fluoraz or PTFE lip seals or pure graphite packing depending on medium and operating temperature
Mounting	Flanges acc. EN 1092-2 type 21
Housing	Cast steel 1.0619+N

TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	SPECIAL KVS VALUE	STROKE
V-BR240S-15-0,16	DN 15	0.16 m³/h		20 mm
V-BR240S-15-0,25	DN 15	0.25 m³/h		20 mm
V-BR240S-15-0,40	DN 15	0.4 m³/h		20 mm
V-BR240S-15-0,63	DN 15	0.63 m³/h		20 mm
V-BR240S-15-1,0	DN 15	1.0 m³/h		20 mm
V-BR240S-15-1,25	DN 15	1.25 m³/h		20 mm
V-BR240S-15-1,60	DN 15	1.6 m³/h		20 mm
V-BR240S-15-2,5	DN 15	2.5 m³/h		20 mm
V-BR240S-15-4,0	DN 15	4.0 m³/h		20 mm
V-BR240S-20-2,5	DN 20	2.5 m³/h	•	20 mm
V-BR240S-20-4,0	DN 20	4.0 m³/h		20 mm
V-BR240S-20-5,0	DN 20	5.0 m³/h	•	20 mm
V-BR240S-20-6,3	DN 20	6.3 m³/h		20 mm
V-BR240S-25-5,0	DN 25	5.0 m³/h	•	20 mm
V-BR240S-25-6,3	DN 25	6.3 m³/h		20 mm
V-BR240S-25-8,0	DN 25	8.0 m³/h	•	20 mm
V-BR240S-25-10,0	DN 25	10.0 m³/h		20 mm

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TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	SPECIAL KVS VALUE	STROKE
V-BR240S-32-8,0	DN 32	8.0 m³/h	•	20 mm
V-BR240S-32-10,0	DN 32	10.0 m³/h		20 mm
V-BR240S-32-12,5	DN 32	12.5 m³/h	•	20 mm
V-BR240S-32-16,0	DN 32	16.0 m³/h		20 mm
V-BR240S-40-12,5	DN 40	12.5 m³/h	•	20 mm
V-BR240S-40-16,0	DN 40	16.0 m³/h		20 mm
V-BR240S-40-20,0	DN 40	20.0 m³/h	•	20 mm
V-BR240S-40-25,0	DN 40	25.0 m³/h		20 mm
V-BR240S-50-20,0	DN 50	20.0 m³/h	•	30 mm
V-BR240S-50-25,0	DN 50	25.0 m³/h		20 mm
V-BR240S-50-31,5	DN 50	31.5 m³/h	•	30 mm
V-BR240S-50-40,0	DN 50	40.0 m³/h		30 mm
V-BR240S-65-31,5	DN 65	31.5 m³/h	•	30 mm
V-BR240S-65-40,0	DN 65	40.0 m³/h		30 mm
V-BR240S-65-50,0	DN 65	50.0 m³/h	•	30 mm
V-BR240S-65-63,0	DN 65	63.0 m³/h		30 mm
V-BR240S-80-50,0	DN 80	50.0 m³/h	•	50 mm
V-BR240S-80-63,0	DN 80	63.0 m³/h		50 mm
V-BR240S-80-80,0	DN 80	80.0 m³/h	•	50 mm
V-BR240S-80-100,0	DN 80	100.0 m³/h		50 mm
V-BR240S-100-80,0	DN 100	80.0 m³/h	•	50 mm
V-BR240S-100-100,0	DN 100	100.0 m³/h		50 mm
V-BR240S-100-125,0	DN 100	125.0 m³/h	•	50 mm
V-BR240S-100-160,0	DN 100	160.0 m³/h		50 mm
V-BR240S-125-125,0	DN 125	125.0 m³/h		60 mm
V-BR240S-125-160,0	DN 125	160.0 m³/h		60 mm
V-BR240S-125-200,0	DN 125	200.0 m³/h	•	60 mm
V-BR240S-125-250,0	DN 125	250.0 m³/h		60 mm
V-BR240S-150-200,0	DN 150	200.0 m³/h	•	60 mm
V-BR240S-150-250,0	DN 150	250.0 m³/h		60 mm
V-BR240S-150-315,0	DN 150	315.0 m³/h	•	60 mm
V-BR240S-150-400,0	DN 150	400.0 m³/h		60 mm

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POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC103	ΔPMAX S-MC163	ΔPMAX S-MC253	ΔPMAX S-MC503	ΔPMAX S-MC1003	ΔPMAX S-MC1503
V-BR240S-15-0,16	3500 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR240S-15-0,25	3500 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR240S-15-0,40	3500 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR240S-15-0,63	3500 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR240S-15-1,0	3500 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR240S-15-1,25	3500 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR240S-15-1,60	3500 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR240S-15-2,5	3500 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR240S-15-4,0	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR240S-20-2,5	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR240S-20-4,0	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR240S-20-5,0	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR240S-20-6,3	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR240S-25-5,0	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR240S-25-6,3	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR240S-25-8,0	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR240S-25-10,0	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR240S-32-8,0	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR240S-32-10,0	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR240S-32-12,5	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR240S-32-16,0	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR240S-40-12,5	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR240S-40-16,0	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR240S-40-20,0	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR240S-40-25,0	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR240S-50-20,0	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR240S-50-25,0	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR240S-50-31,5	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR240S-50-40,0	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR240S-65-31,5	-	300 kPa	540 kPa	1250 kPa	2150 kPa	-
V-BR240S-65-40,0	-	300 kPa	540 kPa	1250 kPa	2150 kPa	4000 kPa

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POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC103	ΔPMAX S-MC163	ΔPMAX S-MC253	ΔPMAX S-MC503	ΔPMAX S-MC1003	ΔPMAX S-MC1503
V-BR240S-65-50,0	-	300 kPa	540 kPa	1250 kPa	2150 kPa	-
V-BR240S-65-63,0	-	300 kPa	540 kPa	1250 kPa	2150 kPa	4000 kPa
V-BR240S-80-50,0	-	-	350 kPa	850 kPa	1500 kPa	-
V-BR240S-80-63,0	-	-	350 kPa	850 kPa	1500 kPa	2800 kPa
V-BR240S-80-80,0	-	-	350 kPa	850 kPa	1500 kPa	-
V-BR240S-80-100,0	-	-	350 kPa	850 kPa	1500 kPa	2800 kPa
V-BR240S-100-80,0	-	-	200 kPa	500 kPa	950 kPa	-
V-BR240S-100-100,0	-	-	200 kPa	500 kPa	950 kPa	1700 kPa
V-BR240S-100-125,0	-	-	200 kPa	500 kPa	950 kPa	-
V-BR240S-100-160,0	-	-	200 kPa	500 kPa	950 kPa	1700 kPa
V-BR240S-125-125,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR240S-125-160,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR240S-125-200,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR240S-125-250,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR240S-150-200,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR240S-150-250,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR240S-150-315,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR240S-150-400,0	-	-	-	190 kPa	350 kPa	700 kPa

Three-way valves of cast steel with flanged connection | PN40 | up to 350 °C

DIGICONTROL V-BR340S-...

Data sheet number 85162

Suitable in building and process engineering for various media 0...+200 °C. Suitable with stuffing box extension or stem seal with stainless steel bellow from -10...+350 °C and for austenitic cast steel from -30...+350 °C. Suitable with stem heater for water with antifreeze compounds down to -10 °C and for austenitic cast steel down to -30 °C.

TECHNICAL DATA

Pressure stage	PN40
Rangeability	≥ 50:1
Overall length	EN 558-1 basic series 1
Leakage rate	EN 1349 – seat-leakage VI G 1 (≤ 0,01 % of kvs-value)
Characteristic line	■ ≤ DN 40: A->AB equal % (Option: linear), B->AB linear ■ ≥ DN 50: A->AB equal % mod. (Option: linear), B->AB linear
Cone	CrNi-steel 1.4057
Spindle	CrMo-steel 1.4122
Stem sealing	O-rings EPDM, FKM, Fluoraz or PTFE lip seals or pure graphite packing depending on medium and operating temperature
Mounting	Flanges acc. EN 1092-2 type 21
Housing	Cast steel 1.0619+N

TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	SPECIAL KVS VALUE	STROKE
V-BR340S-15-2,5	DN 15	2.5 m³/h		20 mm
V-BR340S-15-4,0	DN 15	4.0 m³/h		20 mm
V-BR340S-20-2,5	DN 20	2.5 m³/h	•	20 mm
V-BR340S-20-4,0	DN 20	4.0 m³/h	•	20 mm
V-BR340S-20-5,0	DN 20	5.0 m³/h		20 mm
V-BR340S-20-6,3	DN 20	6.3 m³/h		20 mm
V-BR340S-25-5,0	DN 25	5.0 m³/h	•	20 mm
V-BR340S-25-6,3	DN 25	6.3 m³/h	•	20 mm
V-BR340S-25-8,0	DN 25	8.0 m³/h		20 mm
V-BR340S-25-10,0	DN 25	10.0 m³/h		20 mm
V-BR340S-32-8,0	DN 32	8.0 m³/h	•	20 mm
V-BR340S-32-10,0	DN 32	10.0 m³/h	•	20 mm
V-BR340S-32-12,5	DN 32	12.5 m³/h		20 mm
V-BR340S-32-16,0	DN 32	16.0 m³/h		20 mm
V-BR340S-40-12,5	DN 40	12.5 m³/h	•	20 mm
V-BR340S-40-16,0	DN 40	16.0 m³/h	•	20 mm
V-BR340S-40-20,0	DN 40	20.0 m³/h		20 mm

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TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	SPECIAL KVS VALUE	STROKE
V-BR340S-40-25,0	DN 40	25.0 m³/h		20 mm
V-BR340S-50-20,0	DN 50	20.0 m³/h	•	30 mm
V-BR340S-50-25,0	DN 50	25.0 m³/h	•	30 mm
V-BR340S-50-31,5	DN 50	31.5 m³/h		30 mm
V-BR340S-50-40,0	DN 50	40.0 m³/h		30 mm
V-BR340S-65-31,5	DN 65	31.5 m³/h	•	30 mm
V-BR340S-65-40,0	DN 65	40.0 m³/h	•	30 mm
V-BR340S-65-50,0	DN 65	50.0 m³/h		30 mm
V-BR340S-65-63,0	DN 65	63.0 m³/h		30 mm
V-BR340S-80-50,0	DN 80	50.0 m³/h	•	50 mm
V-BR340S-80-63,0	DN 80	63.0 m³/h	•	50 mm
V-BR340S-80-80,0	DN 80	80.0 m³/h		50 mm
V-BR340S-80-100,0	DN 80	100.0 m³/h		50 mm
V-BR340S-100-80,0	DN 100	80.0 m³/h	•	50 mm
V-BR340S-100-100,0	DN 100	100.0 m³/h	•	50 mm
V-BR340S-100-125,0	DN 100	125.0 m³/h		50 mm
V-BR340S-100-160,0	DN 100	160.0 m³/h		50 mm
V-BR340S-125-125,0	DN 125	125.0 m³/h	•	60 mm
V-BR340S-125-160,0	DN 125	160.0 m³/h	•	60 mm
V-BR340S-125-200,0	DN 125	200.0 m³/h		60 mm
V-BR340S-125-250,0	DN 125	250.0 m³/h		60 mm
V-BR340S-150-200,0	DN 150	200.0 m³/h	•	60 mm
V-BR340S-150-250,0	DN 150	250.0 m³/h	•	60 mm
V-BR340S-150-315,0	DN 150	315.0 m³/h		60 mm
V-BR340S-150-400,0	DN 150	400.0 m³/h		60 mm

POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC103	ΔPMAX S-MC163	ΔPMAX S-MC253	ΔPMAX S-MC503	ΔPMAX S-MC1003	ΔPMAX S-MC1503
V-BR340S-15-2,5	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR340S-15-4,0	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR340S-20-2,5	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR340S-20-4,0	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-

CONTINUED ON PAGE 282 ▸

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POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC103	ΔPMAX S-MC163	ΔPMAX S-MC253	ΔPMAX S-MC503	ΔPMAX S-MC1003	ΔPMAX S-MC1503
V-BR340S-20-5,0	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR340S-20-6,3	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR340S-25-5,0	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR340S-25-6,3	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR340S-25-8,0	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR340S-25-10,0	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR340S-32-8,0	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR340S-32-10,0	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR340S-32-12,5	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR340S-32-16,0	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR340S-40-12,5	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR340S-40-16,0	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR340S-40-20,0	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR340S-40-25,0	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR340S-50-20,0	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR340S-50-25,0	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR340S-50-31,5	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR340S-50-40,0	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR340S-65-31,5	-	300 kPa	540 kPa	1250 kPa	2150 kPa	-
V-BR340S-65-40,0	-	300 kPa	540 kPa	1250 kPa	2150 kPa	-
V-BR340S-65-50,0	-	300 kPa	540 kPa	1250 kPa	2150 kPa	4000 kPa
V-BR340S-65-63,0	-	300 kPa	540 kPa	1250 kPa	2150 kPa	4000 kPa
V-BR340S-80-50,0	-	-	350 kPa	880 kPa	1500 kPa	-
V-BR340S-80-63,0	-	-	350 kPa	880 kPa	1500 kPa	-
V-BR340S-80-80,0	-	-	350 kPa	850 kPa	1500 kPa	2800 kPa
V-BR340S-80-100,0	-	-	350 kPa	850 kPa	1500 kPa	2800 kPa
V-BR340S-100-80,0	-	-	200 kPa	540 kPa	950 kPa	-
V-BR340S-100-100,0	-	-	200 kPa	540 kPa	950 kPa	-
V-BR340S-100-125,0	-	-	200 kPa	500 kPa	950 kPa	1700 kPa
V-BR340S-100-160,0	-	-	200 kPa	500 kPa	950 kPa	1700 kPa
V-BR340S-125-125,0	-	-	-	290 kPa	500 kPa	950 kPa

CONTINUED ON PAGE 283 ▸

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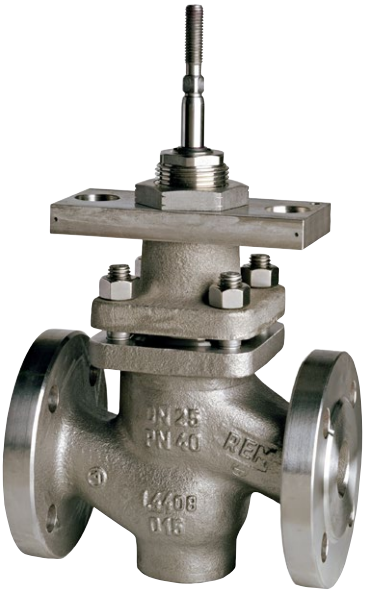
POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC103	ΔPMAX S-MC163	ΔPMAX S-MC253	ΔPMAX S-MC503	ΔPMAX S-MC1003	ΔPMAX S-MC1503
V-BR340S-125-160,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR340S-125-200,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR340S-125-250,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR340S-150-200,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR340S-150-250,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR340S-150-315,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR340S-150-400,0	-	-	-	190 kPa	350 kPa	700 kPa

Two-way valves of stainless steel with flanged connection | PN40 | up to 350 °C

DIGICONTROL V-BR240E-...

Data sheet number 85162



Suitable in building and process engineering for various media 0...+200 °C. Suitable with stuffing box extension or stem seal with stainless steel bellow from -10...+350 °C and for austenitic cast steel from -30...+350 °C. Suitable with stem heater for water with antifreeze compounds down to -10 °C and for austenitic cast steel down to -30 °C.

TECHNICAL DATA

Pressure stage	PN40
Rangeability	≥ 50:1
Overall length	EN 558-1 basic series 1
Leakage rate	EN 1349 – seat-leakage VI G 1 (≤ 0,01 % of kvs-value)
Characteristic line	■ ≤ DN 50: equal %, Option: linear ■ ≥ DN 65: equal % mod., Option: linear ■ Perforated plug: equal %, Option: linear
Cone	CrNi-steel 1.4571
Spindle	CrNi-steel 1.4571
Stem sealing	O-rings EPDM, FKM, Fluoraz or PTFE lip seals or pure graphite packing depending on medium and operating temperature
Mounting	Flanges acc. EN 1092-2 type 21
Housing	Austen. Stainless steel 1.4408

TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	SPECIAL KVS VALUE	STROKE
V-BR240E-15-0,16	DN 15	0.16 m³/h		20 mm
V-BR240E-15-0,25	DN 15	0.25 m³/h		20 mm
V-BR240E-15-0,40	DN 15	0.4 m³/h		20 mm
V-BR240E-15-0,63	DN 15	0.63 m³/h		20 mm
V-BR240E-15-1,0	DN 15	1.0 m³/h		20 mm
V-BR240E-15-1,25	DN 15	1.25 m³/h		20 mm
V-BR240E-15-1,60	DN 15	1.6 m³/h		20 mm
V-BR240E-15-2,5	DN 15	2.5 m³/h		20 mm
V-BR240E-15-4,0	DN 15	4.0 m³/h		20 mm
V-BR240E-20-2,5	DN 20	2.5 m³/h	•	20 mm
V-BR240E-20-4,0	DN 20	4.0 m³/h		20 mm
V-BR240E-20-5,0	DN 20	5.0 m³/h	•	20 mm
V-BR240E-20-6,3	DN 20	6.3 m³/h		20 mm
V-BR240E-25-5,0	DN 25	5.0 m³/h	•	20 mm
V-BR240E-25-6,3	DN 25	6.3 m³/h		20 mm
V-BR240E-25-8,0	DN 25	8.0 m³/h	•	20 mm
V-BR240E-25-10,0	DN 25	10.0 m³/h		20 mm

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TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	SPECIAL KVS VALUE	STROKE
V-BR240E-32-8,0	DN 32	8.0 m³/h	•	20 mm
V-BR240E-32-10	DN 32	10.0 m³/h		20 mm
V-BR240E-32-12,5	DN 32	12.5 m³/h	•	20 mm
V-BR240E-32-16,0	DN 32	16.0 m³/h		20 mm
V-BR240E-40-12,5	DN 40	12.5 m³/h	•	20 mm
V-BR240E-40-16,0	DN 40	16.0 m³/h		20 mm
V-BR240E-40-20,0	DN 40	20.0 m³/h	•	20 mm
V-BR240E-40-25,0	DN 40	25.0 m³/h		20 mm
V-BR240E-50-20,0	DN 50	20.0 m³/h	•	30 mm
V-BR240E-50-25,0	DN 50	25.0 m³/h		30 mm
V-BR240E-50-31,5	DN 50	31.5 m³/h	•	30 mm
V-BR240E-50-40,0	DN 50	40.0 m³/h		30 mm
V-BR240E-65-31,5	DN 65	31.5 m³/h	•	30 mm
V-BR240E-65-40,0	DN 65	40.0 m³/h		30 mm
V-BR240E-65-50,0	DN 65	50.0 m³/h	•	30 mm
V-BR240E-65-63,0	DN 65	63.0 m³/h		30 mm
V-BR240E-80-50,0	DN 80	50.0 m³/h	•	50 mm
V-BR240E-80-63,0	DN 80	63.0 m³/h		50 mm
V-BR240E-80-80,0	DN 80	80.0 m³/h	•	50 mm
V-BR240E-80-100,0	DN 80	100.0 m³/h		50 mm
V-BR240E-100-80,0	DN 100	80.0 m³/h	•	50 mm
V-BR240E-100-100,0	DN 100	100.0 m³/h		50 mm
V-BR240E-100-125,0	DN 100	125.0 m³/h	•	50 mm
V-BR240E-100-160,0	DN 100	160.0 m³/h		50 mm
V-BR240E-125-125,0	DN 125	125.0 m³/h	•	60 mm
V-BR240E-125-160,0	DN 125	160.0 m³/h		60 mm
V-BR240E-125-200,0	DN 125	200.0 m³/h	•	60 mm
V-BR240E-125-250,0	DN 125	250.0 m³/h		60 mm
V-BR240E-150-200,0	DN 150	200.0 m³/h	•	60 mm
V-BR240E-150-250,0	DN 150	250.0 m³/h		60 mm
V-BR240E-150-315,0	DN 150	315.0 m³/h	•	60 mm
V-BR240E-150-400,0	DN 150	400.0 m³/h		60 mm

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POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC103	ΔPMAX S-MC163	ΔPMAX S-MC253	ΔPMAX S-MC503	ΔPMAX S-MC1003	ΔPMAX S-MC1503
V-BR240E-15-0,16	3500 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR240E-15-0,25	3500 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR240E-15-0,40	3500 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR240E-15-0,63	3500 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR240E-15-1,0	3500 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR240E-15-1,25	3500 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR240E-15-1,60	3500 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR240E-15-2,5	3500 kPa	4000 kPa	4000 kPa	4000 kPa	-	-
V-BR240E-15-4,0	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR240E-20-2,5	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR240E-20-4,0	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR240E-20-5,0	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR240E-20-6,3	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR240E-25-5,0	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR240E-25-6,3	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR240E-25-8,0	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR240E-25-10,0	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR240E-32-8,0	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR240E-32-10	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR240E-32-12,5	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR240E-32-16,0	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR240E-40-12,5	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR240E-40-16,0	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR240E-40-20,0	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR240E-40-25,0	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR240E-50-20,0	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR240E-50-25,0	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR240E-50-31,5	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR240E-50-40,0	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR240E-65-31,5	-	300 kPa	540 kPa	1250 kPa	2150 kPa	-
V-BR240E-65-40,0	-	300 kPa	540 kPa	1250 kPa	2150 kPa	4000 kPa

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POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC103	ΔPMAX S-MC163	ΔPMAX S-MC253	ΔPMAX S-MC503	ΔPMAX S-MC1003	ΔPMAX S-MC1503
V-BR240E-65-50,0	-	300 kPa	540 kPa	1250 kPa	2150 kPa	-
V-BR240E-65-63,0	-	300 kPa	540 kPa	850 kPa	2150 kPa	4000 kPa
V-BR240E-80-50,0	-	-	350 kPa	850 kPa	1500 kPa	-
V-BR240E-80-63,0	-	-	350 kPa	850 kPa	1500 kPa	2800 kPa
V-BR240E-80-80,0	-	-	350 kPa	850 kPa	1500 kPa	-
V-BR240E-80-100,0	-	-	350 kPa	850 kPa	1500 kPa	2800 kPa
V-BR240E-100-80,0	-	-	200 kPa	500 kPa	950 kPa	-
V-BR240E-100-100,0	-	-	200 kPa	500 kPa	950 kPa	1700 kPa
V-BR240E-100-125,0	-	-	200 kPa	500 kPa	950 kPa	-
V-BR240E-100-160,0	-	-	200 kPa	500 kPa	950 kPa	1700 kPa
V-BR240E-125-125,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR240E-125-160,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR240E-125-200,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR240E-125-250,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR240E-150-200,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR240E-150-250,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR240E-150-315,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR240E-150-400,0	-	-	-	190 kPa	350 kPa	700 kPa

Three-way valves of stainless steel with flanged connection | PN40 | up to 350 °C

DIGICONTROL V-BR340E-...

Data sheet number 85162

Suitable in building and process engineering for various media 0...+200 °C. Suitable with stuffing box extension or stem seal with stainless steel bellow from -10...+350 °C and for austenitic cast steel from -30...+350 °C. Suitable with stem heater for water with antifreeze compounds down to -10 °C and for austenitic cast steel down to -30 °C.

TECHNICAL DATA

Pressure stage	PN40
Rangeability	≥ 50:1
Overall length	EN 558-1 basic series 1
Leakage rate	EN 1349 – seat-leakage VI G 1 (≤ 0,01 % of kvs-value)
Characteristic line	■ ≤ DN 40: A->AB equal % (Option: linear), B->AB linear ■ ≥ DN 50: A->AB equal % mod. (Option: linear), B->AB linear
Cone	CrNi-Stahl 1.4571
Spindle	CrNi-Stahl 1.4571
Stem sealing	O-rings EPDM, FKM, Fluoraz or PTFE lip seals or pure graphite packing depending on medium and operating temperature
Mounting	Flanges acc. EN 1092-2 type 21
Housing	Austen. Stainless steel 1.4408

TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	SPECIAL KVS VALUE	STROKE
V-BR340E-15-2,5	DN 15	2.5 m³/h		20 mm
V-BR340E-15-4,0	DN 15	4.0 m³/h		20 mm
V-BR340E-20-2,5	DN 20	2.5 m³/h	•	20 mm
V-BR340E-20-4,0	DN 20	4.0 m³/h	•	20 mm
V-BR340E-20-5,0	DN 20	5.0 m³/h		20 mm
V-BR340E-20-6,3	DN 20	6.3 m³/h	•	20 mm
V-BR340E-25-5,0	DN 25	5.0 m³/h	•	20 mm
V-BR340E-25-6,3	DN 25	6.3 m³/h		20 mm
V-BR340E-25-8,0	DN 25	8.0 m³/h		20 mm
V-BR340E-25-10,0	DN 25	10.0 m³/h		20 mm
V-BR340E-32-8,0	DN 32	8.0 m³/h	•	20 mm
V-BR340E-32-10,0	DN 32	10.0 m³/h	•	20 mm
V-BR340E-32-12,5	DN 32	12.5 m³/h		20 mm
V-BR340E-32-16,0	DN 32	16.0 m³/h		20 mm
V-BR340E-40-12,5	DN 40	12.5 m³/h	•	20 mm
V-BR340E-40-16,0	DN 40	16.0 m³/h	•	20 mm
V-BR340E-40-20,0	DN 40	20.0 m³/h		20 mm

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TYPE LIST

TYPE	DIAMETER NOMINAL	KVS	SPECIAL KVS VALUE	STROKE
V-BR340E-40-25,0	DN 40	25.0 m³/h		20 mm
V-BR340E-50-20,0	DN 50	20.0 m³/h	•	30 mm
V-BR340E-50-25,0	DN 50	25.0 m³/h	•	30 mm
V-BR340E-50-31,5	DN 50	31.5 m³/h		30 mm
V-BR340E-50-40,0	DN 50	40.0 m³/h		30 mm
V-BR340E-65-31,5	DN 65	31.5 m³/h	•	30 mm
V-BR340E-65-40,0	DN 65	40.0 m³/h	•	30 mm
V-BR340E-65-50,0	DN 65	50.0 m³/h		30 mm
V-BR340E-65-63,0	DN 65	63.0 m³/h		30 mm
V-BR340E-80-50,0	DN 80	50.0 m³/h	•	50 mm
V-BR340E-80-63,0	DN 80	63.0 m³/h	•	50 mm
V-BR340E-80-80,0	DN 80	80.0 m³/h		50 mm
V-BR340E-80-100,0	DN 80	100.0 m³/h		50 mm
V-BR340E-100-80,0	DN 100	80.0 m³/h	•	50 mm
V-BR340E-100-100,0	DN 100	100.0 m³/h	•	50 mm
V-BR340E-100-125,0	DN 100	125.0 m³/h		50 mm
V-BR340E-100-160,0	DN 100	160.0 m³/h		50 mm
V-BR340E-125-125,0	DN 125	125.0 m³/h	•	60 mm
V-BR340E-125-160,0	DN 125	160.0 m³/h	•	60 mm
V-BR340E-125-200,0	DN 125	200.0 m³/h		60 mm
V-BR340E-125-250,0	DN 125	250.0 m³/h		60 mm
V-BR340E-150-200,0	DN 150	200.0 m³/h	•	60 mm
V-BR340E-150-250,0	DN 150	250.0 m³/h	•	60 mm
V-BR340E-150-315,0	DN 150	315.0 m³/h		60 mm
V-BR340E-150-400,0	DN 150	400.0 m³/h		60 mm

POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC103	ΔPMAX S-MC163	ΔPMAX S-MC253	ΔPMAX S-MC503	ΔPMAX S-MC1003	ΔPMAX S-MC1503
V-BR340E-15-2,5	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR340E-15-4,0	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR340E-20-2,5	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR340E-20-4,0	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-

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POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC103	ΔPMAX S-MC163	ΔPMAX S-MC253	ΔPMAX S-MC503	ΔPMAX S-MC1003	ΔPMAX S-MC1503
V-BR340E-20-5,0	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR340E-20-6,3	1250 kPa	2400 kPa	4000 kPa	4000 kPa	-	-
V-BR340E-25-5,0	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR340E-25-6,3	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR340E-25-8,0	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR340E-25-10,0	1050 kPa	2050 kPa	3500 kPa	4000 kPa	-	-
V-BR340E-32-8,0	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR340E-32-10,0	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR340E-32-12,5	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR340E-32-16,0	600 kPa	1250 kPa	2200 kPa	4000 kPa	-	-
V-BR340E-40-12,5	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR340E-40-16,0	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR340E-40-20,0	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR340E-40-25,0	350 kPa	750 kPa	1400 kPa	3150 kPa	-	-
V-BR340E-50-20,0	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR340E-50-25,0	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR340E-50-31,5	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR340E-50-40,0	-	450 kPa	850 kPa	1950 kPa	-	-
V-BR340E-65-31,5	-	300 kPa	540 kPa	1250 kPa	2150 kPa	-
V-BR340E-65-40,0	-	300 kPa	540 kPa	1250 kPa	2150 kPa	-
V-BR340E-65-50,0	-	300 kPa	540 kPa	1250 kPa	2150 kPa	4000 kPa
V-BR340E-65-63,0	-	300 kPa	540 kPa	1250 kPa	2150 kPa	4000 kPa
V-BR340E-80-50,0	-	-	350 kPa	880 kPa	1500 kPa	-
V-BR340E-80-63,0	-	-	350 kPa	880 kPa	1500 kPa	-
V-BR340E-80-80,0	-	-	350 kPa	850 kPa	1500 kPa	2800 kPa
V-BR340E-80-100,0	-	-	350 kPa	850 kPa	1500 kPa	2800 kPa
V-BR340E-100-80,0	-	-	200 kPa	540 kPa	950 kPa	-
V-BR340E-100-100,0	-	-	200 kPa	540 kPa	950 kPa	-
V-BR340E-100-125,0	-	-	200 kPa	500 kPa	950 kPa	1700 kPa
V-BR340E-100-160,0	-	-	200 kPa	500 kPa	950 kPa	1700 kPa
V-BR340E-125-125,0	-	-	-	290 kPa	500 kPa	950 kPa

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POSSIBLE COMBINATIONS

VALVE TYPE	VALVE ACTUATOR					
	ΔPMAX S-MC103	ΔPMAX S-MC163	ΔPMAX S-MC253	ΔPMAX S-MC503	ΔPMAX S-MC1003	ΔPMAX S-MC1503
V-BR340E-125-160,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR340E-125-200,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR340E-125-250,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR340E-150-200,0	-	-	-	290 kPa	500 kPa	950 kPa
V-BR340E-150-250,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR340E-150-315,0	-	-	-	190 kPa	350 kPa	700 kPa
V-BR340E-150-400,0	-	-	-	190 kPa	350 kPa	700 kPa

Electric actuators with microcontroller

DIGICONTROL S-MC55...

for two-way and three-way valves
V-BR216RA-... | V-BR316RA-...
V-BR206GF-... | V-BR306GF-...
V-BR216GF-... | V-BR316GF-...

Data sheet number 84710

Electric actuators with microcontroller for two-way and three-way valves

Features

- Microprocessor controlled
- Automatic self-calibration during commissioning
- Signal processing by a wear-free distance measuring system
- Wire break recognition in 2...10 V DC and 4...20 mA operation
- Safety position for switching a binary signal (frost protection)
- Input signal Y and output signal X simultaneously reversible
- Hysteresis 0.3 V in continuous operation (fixed value)
- Shockproof at 230 V AC, no protective conductor (PE) necessary
- Manual override by hand wheel
- Mechanical position indication
- Operating voltage interrupted in manual operation

TECHNICAL DATA

Outputs	0...10 V DC / max. 8 mA / min. 1200 Ohm
Frequency	50/60 ± 5 % Hz
Actuating power	0.6 kN
Actuating time	9 | 5* [1] s/mm
Operating mode	S3-50 % ED c/h 1200 acc. EN 60034-1
Hysteresis	0.3 V
End position switch-off	Load-dependent
Weight	1.5 kg
Protection class	IP54
Operating temperature	0...+60 °C

TYPE LIST

TYPE	VOLTAGE	INPUTS	POWER CONSUMPTION
S-MC55-24	24 V AC/DC +/- 10 %	3-point	3.5 VA
S-MC55-230	230 V AC +6 % / -10 %	3-point	7 VA
S-MC55Y	24 V AC/DC +/- 10 %	0(2)...10 V DC / 77 kOhm; 0(4)...20 mA / 0.51 kOhm	3.5 VA

1) Actuating time freely adjustable, presetting is marked with *
2) Only retified alternating voltage
3) Invertible input and output signal
4) Freely adjustable

Electric actuators with microcontroller

DIGICONTROL S-MC100-...

for two-way and three-way valves
V-BR216RA-... | V-BR316RA-...
V-BR216RA-TW-... | V-BR316RA-TW-...
V-BR206GF-... | V-BR306GF-...
V-BR216GF-... | V-BR316GF-...

Data sheet number 84720

Electric actuators with microcontroller for two-way and three-way valves

Features
- Microprocessor controlled with automatic self-calibration on start up
- LED indication of actuator status
- Signal processing by a wear-free distance measuring system by means of a Hall sensor
- Permanent storage of stroke in EPROM memory, values can not be lost
- Wire break recognition in 2...10 V DC and 4...20 mA operation
- Bonnet detachable in four positions, 90° locking, no screws required
- Safety position for switching a binary signal (frost protection)
- Pull-out manual adjustment with feedback signal
- Fault recognition in continuous operation (in case of blockage due to external influence)
- Input and output signal independently reversible
- Input signal freely adjustable: 3-point or continuous operation
- Hysteresis adjustable on site 0.15 V or 0.5 V in continuous mode
- Shockproof at 230 V AC, no protective conductor (PE) necessary

TECHNICAL DATA

Outputs	0...10 V DC / max. 8 mA / min. 1200 Ohm
Inputs	3-point; 0(2)...10 V DC / 77 kOhm; 0(4)...20 mA / 0.51 kOhm
Frequency	50/60 ± 5 % Hz
Actuating power	1.0 kN
Actuating time	12 | 9* | 4 | 1.9 [1] s/mm
Operating mode	S3-50 % ED c/h 1200 acc. EN 60034-1
Hysteresis	0.15 | 0.5 V
End position switch-off	Load-dependent
Protection class	IP54
Operating temperature	0...+60 °C

TYPE LIST

TYPE	VOLTAGE	STROKE	POWER CONSUMPTION	WEIGHT
S-MC100-24	24 V AC/DC +/- 10 %	Max. 20 mm	6 VA	2.5 kg
S-MC100-230	230 V AC +6 % / -10 %	Max. 20 mm	12 VA	2.5 kg

1) Actuating time freely adjustable, presetting is marked with *
2) Only retified alternating voltage
3) Invertible input and output signal
4) Freely adjustable

Electric actuators with microcontroller

DIGICONTROL S-MC103-...

for two-way and three-way valves
V-BR216-... | V-BR316-...
V-BR225-... | V-BR325-...
V-BR240S-... | V-BR340S-...
V-BR240E-... | V-BR340E-...

Data sheet number 84730

Electric actuators with microcontroller for two-way and three-way valves

Features

- Microprocessor controlled with automatic self-calibration during commissioning
- LED indication of actuator status
- Signal processing by a wear-free distance measuring system by means of a Hall sensor
- Permanent storage of stroke in EPROM memory, values can not be lost
- Wire break recognition in 2...10 V DC and 4...20 mA operation
- Bonnet detachable in four positions, 90° locking, no screws required
- Safety position for switching a binary signal (frost protection)
- Pull-out manual adjustment with feedback signal
- Fault recognition in continuous operation (in case of blockage due to external influence)
- Input and output signal independently reversible
- Input signal freely adjustable: 3-point or modulating
- Hysteresis adjustable on site 0.15 V or 0.5 V in continuous mode
- Shockproof at 230 V AC, no protective conductor (PE) necessary

TECHNICAL DATA

Outputs	0...10 V DC / max. 8 mA / min. 1200 Ohm
Inputs	3-point; 0(2)...10 V DC / 77 kOhm; 0(4)...20 mA / 0.51 kOhm
Frequency	50/60 ± 5 % Hz
Actuating power	1.0 kN
Actuating time	12 | 9* | 4 | 1.9 [1] s/mm
Operating mode	S3-50 % ED c/h 1200 acc. EN 60034-1
Hysteresis	0.15 | 0.5 V
End position switch-off	Load-dependent
Protection class	IP54
Operating temperature	0...+60 °C

TYPE LIST

TYPE	VOLTAGE	STROKE	POWER CONSUMPTION	WEIGHT
S-MC103-24	24 V AC/DC +/- 10 %	Max. 20 mm	6 VA	2.5 kg
S-MC103-230	230 V AC +6 % / -10 %	Max. 20 mm	12 VA	2.5 kg

1) Actuating time freely adjustable, presetting is marked with *
2) Only retified alternating voltage
3) Invertible input and output signal
4) Freely adjustable

Electric actuators with fail-safe function

DIGICONTROL S-MC103SE-24

for two-way valves
V-BR225
V-BR240E

Data sheet number 84772

Electric lift drive with micro controller for straight-way valves

Characteristics:

- Electric lift drive with defined end position in case of power failure (drive spindle completely extended)
- Electromechanical safety function (spring), hydraulically suspended
- Controlled by microcontroller with automatic calibration during commissioning
- Drive status visible via LED display
- Wire break detection in 2...10 V DC- and 4...20 mA-operation
- Safety position when switching a binary signal (frost protection)
- Designable manual adjustment with feedback signal
- Fault detection in continuous operation (in case of blockage by external impact)
- Input signal Y and output signal X can be inverted independently from each other
- On-site adjustable control: three-point or continuous operation

TECHNICAL DATA

Outputs	0...10 V DC / max. 8 mA / min. 1200 Ohm
Inputs	3-point, 0(2)...10 V DC / 77 kOhm; 0(4)...20 mA / 0.51 kOhm
Frequency	50/60 ± 5 % Hz
Actuating power	1.0 kN
Actuating time	9 s/mm
Emergency Actuating time	0.1 s/mm
Operating mode	S3-50 % ED c/h 1200 acc. EN 60034-1
Hysteresis	0.05 | 0.15 | 0.3 | 0.5 V
End position switch-off	Load-dependent
Protection class	IP54
Operating temperature	0...+60 °C
Type examination	■ 97/23/EC ■ EN14597 Abs DX17 ■ EN60730

TYPE LIST

TYPE	VOLTAGE	STROKE	POWER CONSUMPTION	WEIGHT
S-MC103SE-24	24 V AC +/- 10 %	Max. 20 mm	Max. 25 VA	5.0 kg

1) Actuating time freely adjustable, presetting is marked with *
2) Only retified alternating voltage
3) Invertible input and output signal
4) Freely adjustable

Electric actuators with microcontroller

DIGICONTROL S-MC160-...

for two-way and three-way valves
V-BR216RA-... | V-BR316RA-...
V-BR216RA-TW-... | V-BR316RA-TW-...
V-BR206GF-... | V-BR306GF-...
V-BR216GF-... | V-BR316GF-...

Data sheet number 84740

Electric actuators with microcontroller for two-way and three-way valves

Features

- Microprocessor controlled with automatic self-calibration during commissioning
- LED indication of actuator status
- Signal processing by a wear-free distance measuring system by means of a Hall sensor
- Permanent storage of stroke in EPROM memory, values can not be lost
- Wire break recognition in 2...10 V DC and 4...20 mA operation
- Bonnet detachable in four positions, 90° locking, no screws required
- Safety position for switching a binary signal (frost protection)
- Pull-out manual adjustment with feedback signal
- Fault recognition in continuous operation (in case of blockage due to external influence)
- Input and output signal independently reversible
- Input signal freely adjustable: 3-point or continuous operation
- Hysteresis adjustable on-site 0.05 V / 0.15 V / 0.3 V or 0.5 V in continuous operation
- Shockproof at 230 V AC, no protective conductor (PE) necessary

TECHNICAL DATA

Outputs	0...10 V DC / max. 8 mA / min. 1200 Ohm
Inputs	3-point, 0(2)...10 V DC / 77 kOhm; 0(4)...20 mA / 0.51 kOhm
Frequency	50/60 ± 5 % Hz
Actuating power	1.6 kN
Actuating time	6 | 4* [1] s/mm
Operating mode	S3-50 % ED c/h 1200 acc. EN 60034-1
Hysteresis	0.05 | 0.15 | 0.3 | 0.5 V
End position switch-off	Load-dependent
Protection class	IP54
Operating temperature	0...+60 °C

TYPE LIST

TYPE	VOLTAGE	STROKE	POWER CONSUMPTION	WEIGHT
S-MC160-24	24 V AC/DC +/- 10 %	Max. 30 mm	6 VA	3.2 kg
S-MC160-230	230 V AC +6 % / -10 %	Max. 30 mm	12 VA	3.2 kg

1) Actuating time freely adjustable, presetting is marked with *
2) Only retified alternating voltage
3) Invertible input and output signal
4) Freely adjustable

Electric actuators with microcontroller

DIGICONTROL S-MC163-...

for two-way and three-way valves
V-BR216-... | V-BR316-....
V-BR225-... | V-BR325-...
V-BR240S-... | V-BR340S-...
V-BR240E-... | V-BR340E-...

Data sheet number 84750

Electric actuators with microcontroller for two-way and three-way valves

Features
- Microprocessor controlled with automatic self-calibration during commissioning
- LED indication of actuator status
- Signal processing by a wear-free distance measuring system by means of a Hall sensor
- Permanent storage of stroke in EPROM memory, values can not be lost
- Wire break recognition in 2...10 V DC and 4...20 mA operation
- Bonnet detachable in four positions, 90° locking, no screws required
- Safety position for switching a binary signal (frost protection)
- Pull-out manual adjustment with feedback signal
- Fault recognition in continuous operation (in case of blockage due to external influence)
- Input and output signal independently reversible
- Input signal freely adjustable: 3-point or continuous operation
- Hysteresis adjustable on-site 0.05 V / 0.15 V / 0.3 V or 0.5 V in continuous operation
- Shockproof at 230 V AC, no protective conductor (PE) necessary

TECHNICAL DATA

Outputs	0...10 V DC / max. 8 mA / min. 1200 Ohm
Inputs	3-point, 0(2)...10 V DC / 77 kOhm; 0(4)...20 mA / 0.51 kOhm
Frequency	50/60 ± 5 % Hz
Actuating power	1.6 kN
Actuating time	6 | 4* [1] s/mm
Operating mode	S3-50 % ED c/h 1200 acc. EN 60034-1
Hysteresis	0.05 | 0.15 | 0.3 | 0.5 V
End position switch-off	Load-dependent
Protection class	IP54
Operating temperature	0...+60 °C

TYPE LIST

TYPE	VOLTAGE	STROKE	POWER CONSUMPTION	WEIGHT
S-MC163-24	24 V AC/DC +/- 10 %	Max. 30 mm	6 VA	4.0 kg
S-MC163-230	230 V AC +6 % / -10 %	Max. 30 mm	12 VA	4.0 kg

1) Actuating time freely adjustable, presetting is marked with *
2) Only retified alternating voltage
3) Invertible input and output signal
4) Freely adjustable

Electric actuators with microcontroller

DIGICONTROL S-MC250-...

for two-way and three-way valves
V-BR206GF-... | V-BR306GF-...
V-BR216GF-... | V-BR316GF-...

Data sheet number 84760

Electric actuators with microcontroller for two-way and three-way valves

Features

- Microprocessor controlled with automatic self-calibration during commissioning
- LED indication of actuator status
- Signal processing by a wear-free distance measuring system by means of a Hall sensor
- Permanent storage of stroke in EPROM memory, values can not be lost
- Wire break recognition in 2...10 V DC and 4...20 mA operation
- Bonnet detachable in four positions, 90° locking, no screws required
- Safety position for switching a binary signal (frost protection)
- Pull-out manual adjustment with feedback signal
- Fault recognition in continuous operation (in case of blockage due to external influence)
- Input and output signal independently reversible
- Input signal freely adjustable: 3-point or continuous operation
- Hysteresis adjustable on-site 0.05 V / 0.15 V / 0.3 V or 0.5 V in continuous operation
- Shockproof at 230 V AC, no protective conductor (PE) necessary

TECHNICAL DATA

Outputs	0...10 V DC / max. 8 mA / min. 1200 Ohm
Inputs	3-point, 0(2)...10 V DC / 77 kOhm; 0(4)...20 mA / 0.51 kOhm
Frequency	50/60 ± 5 % Hz
Actuating power	2.5 kN
Actuating time	5 | 2.5* [1] s/mm
Operating mode	S3-50 % ED c/h 1200 acc. EN 60034-1
Hysteresis	0.05 | 0.15 | 0.3 | 0.5 V
End position switch-off	Load-dependent
Protection class	IP54
Operating temperature	0...+60 °C

TYPE LIST

TYPE	VOLTAGE	STROKE	POWER CONSUMPTION	WEIGHT
S-MC250-24	24 V AC/DC +/- 10 %	Max. 60 mm	Max. 18 VA	7.0 kg
S-MC250-230	230 V AC +6 % / -10 %	Max. 60 mm	Max. 25 VA	8.2 kg

1) Actuating time freely adjustable, presetting is marked with *
2) Only retified alternating voltage
3) Invertible input and output signal
4) Freely adjustable

Electric actuators with microcontroller

DIGICONTROL S-MC253-...

for two-way and three-way valves
V-BR216-... | V-BR316-...
V-BR225-... | V-BR325-...
V-BR240S-... | V-BR340S-...
V-BR240E-... | V-BR340E-...

Data sheet number 84770

Electric actuators with microcontroller for two-way and three-way valves

Features
- Microprocessor controlled with automatic self-calibration during commissioning
- LED indication of actuator status
- Signal processing by a wear-free distance measuring system by means of a Hall sensor
- Permanent storage of stroke in EPROM memory, values can not be lost
- Wire break recognition in 2...10 V DC and 4...20 mA operation
- Bonnet can be placed in four positions, 90° locking, no screws required
- Safety position for switching a binary signal (frost protection)
- Pull-out manual adjustment with feedback signal
- Fault recognition in continuous operation (in case of blockage due to external influence)
- Input and output signal independently reversible
- Input signal freely adjustable: 3-point or continuous operation
- Hysteresis adjustable on-site 0.05 V / 0.15 V / 0.3 V or 0.5 V in continuous operation
- Shockproof at 230 V AC, no protective conductor (PE) necessary

TECHNICAL DATA

Outputs	0...10 V DC / max. 8 mA / min. 1200 Ohm
Inputs	3-point, 0(2)...10 V DC / 77 kOhm; 0(4)...20 mA / 0.51 kOhm
Frequency	50/60 ± 5 % Hz
Actuating power	2.5 kN
Actuating time	5 | 2.5* [1] s/mm
Operating mode	S3-50 % ED c/h 1200 acc. EN 60034-1
Hysteresis	0.05 | 0.15 | 0.3 | 0.5 V
End position switch-off	Load-dependent
Protection class	IP54
Operating temperature	0...+60 °C

TYPE LIST

TYPE	VOLTAGE	STROKE	POWER CONSUMPTION	WEIGHT
S-MC253-24	24 V AC/DC +/- 10 %	Max. 60 mm	Max. 18 VA	7.4 kg
S-MC253-230	230 V AC +6 % / -10 %	Max. 60 mm	Max. 25 VA	8.6 kg

1) Actuating time freely adjustable, presetting is marked with *
2) Only retified alternating voltage
3) Invertible input and output signal
4) Freely adjustable

Electric actuators with fail-safe function

DIGICONTROL S-MC253SE-24

for two-way valves
V-BR225
V-BR240E
V-BR240S

Data sheet number 84771

Electric lift drive with micro controller for straight-way valves

Characteristics:

- Electric lift drive with defined end position in case of power failure (drive spindle completely extended)
- Electromechanical safety function (spring), hydraulically suspended
- Controlled by microcontroller with automatic calibration during commissioning
- Drive status visible via LED display
- Line break detection in 2...10 V DC- and 4...20 mA-operation
- Safety position when switching a binary signal (frost protection)
- Designageable manual adjustment with feedback signal
- Fault detection in continuous operation (in case of blockage due to external influence)
- Input signal Y and output signal X can be inverted independently from each other
- On-site adjustable control: three-point or continuous operation

TECHNICAL DATA

Outputs	0...10 V DC / max. 8 mA / min. 1200 Ohm
Inputs	3-point, 0(2)...10 V DC / 77 kOhm; 0(4)...20 mA / 0.51 kOhm
Frequency	50/60 ± 5 % Hz
Actuating time	5 | 2.5* [1] s/mm
Operating mode	S3-50 % ED c/h 1200 acc. EN 60034-1
Hysteresis	0.05 | 0.15 | 0.3 | 0.5 V
End position switch-off	Load-dependent
Protection class	IP54
Operating temperature	0...+60 °C
Type examination	■ 97/23/EG ■ EN14597 Abs DX17 ■ EN60730

TYPE LIST

TYPE	VOLTAGE	STROKE	POWER CONSUMPTION	WEIGHT
S-MC253SE-24	24 V AC +/- 10 %	9 mm	Max. 50 VA	13.0 kg

1) Actuating time freely adjustable, presetting is marked with *
2) Only retified alternating voltage
3) Invertible input and output signal
4) Freely adjustable

Electric actuators with microcontroller

DIGICONTROL S-MC500-...

for two-way and three-way valves
V-BR206GF-... | V-BR306GF-...
V-BR216GF-... | V-BR316GF-...

Data sheet number 84780

Electric actuators with microcontroller for two-way and three-way valves

Features

- Microprocessor controlled with automatic self-calibration during commissioning
- LED indication of actuator status
- Signal processing by a wear-free distance measuring system by means of a Hall sensor
- Permanent storage of stroke in EPROM memory, values can not be lost
- Wire break recognition in 2...10 V DC and 4...20 mA operation
- Bonnet can be placed in four positions, 90° locking, no screws required
- Safety position for switching a binary signal (frost protection)
- Pull-out manual adjustment with feedback signal
- Fault recognition in continuous operation (in case of blockage due to external impact)
- Input and output signal independently reversible
- Input signal freely adjustable: 3-point or modulating
- Hysteresis freely adjustable 0.05 V / 0.15 V / 0.3 V or 0.5 V in continuous operation
- Shockproof at 230 V AC, no protective conductor (PE) necessary

TECHNICAL DATA

Outputs	0...10 V DC / max. 8 mA / min. 1200 Ohm
Inputs	3-point, 0(2)...10 V DC / 77 kOhm; 0(4)...20 mA / 0.51 kOhm
Frequency	50/60 ± 5 % Hz
Actuating power	5.0 kN
Actuating time	5 | 2.5* [1] s/mm
Operating mode	S3-50 % ED c/h 1200 acc. EN 60034-1
Hysteresis	0.05 | 0.15 | 0.3 | 0.5 V
End position switch-off	Load-dependent
Protection class	IP54
Operating temperature	0...+60 °C

TYPE LIST

TYPE	VOLTAGE	STROKE	POWER CONSUMPTION	WEIGHT
S-MC500-24	24 V AC/DC +/- 10 %	Max. 60 mm	Max. 18 VA	7.0 kg
S-MC500-230	230 V AC +6 % / -10 %	Max. 60 mm	Max. 25 VA	8.2 kg

1) Actuating time freely adjustable, presetting is marked with *
2) Only retified alternating voltage
3) Invertible input and output signal
4) Freely adjustable

Electric actuators with microcontroller

DIGICONTROL S-MC503-...

for two-way and three-way valves
V-BR216-... | V-BR316-...
V-BR225-... | V-BR325-...
V-BR240S-... | V-BR340S-...
V-BR240E-... | V-BR340E-...

Data sheet number 84790

Electric actuators with microcontroller for two-way and three-way valves

Features

- Microprocessor controlled with automatic self-calibration during commissioning
- LED indication of actuator status
- Signal processing by a wear-free distance measuring system by means of a Hall sensor
- Permanent storage of stroke in EPROM memory, values can not be lost
- Wire break recognition in 2...10 V DC and 4...20 mA operation
- Bonnet can be placed in four positions, 90° locking, no screws required
- Safety position for switching a binary signal (frost protection)
- Pull-out manual adjustment with feedback signal
- Fault recognition in continuous operation (in case of blockage due to external influence)
- Input and output signal independently reversible
- Input signal freely adjustable: 3-point or modulating
- Hysteresis freely adjustable 0.05 V / 0.15 V / 0.3 V or 0.5 V in continuous operation
- Shockproof at 230 V AC, no protective conductor (PE) necessary

TECHNICAL DATA

Outputs	0...10 V DC / max. 8 mA / min. 1200 Ohm
Inputs	3-point, 0(2)...10 V DC / 77 kOhm; 0(4)...20 mA / 0.51 kOhm
Frequency	50/60 ± 5 % Hz
Actuating power	5.0 kN
Actuating time	5 | 2.5* [1] s/mm
Operating mode	S3-50 % ED c/h 1200 acc. EN 60034-1
Hysteresis	0.05 | 0.15 | 0.3 | 0.5 V
End position switch-off	Load-dependent
Protection class	IP54
Operating temperature	0...+60 °C

TYPE LIST

TYPE	VOLTAGE	STROKE	POWER CONSUMPTION	WEIGHT
S-MC503-24	24 V AC/DC +/- 10 %	Max. 60 mm	Max. 18 VA	7.4 kg
S-MC503-230	230 V AC +6 % / -10 %	Max. 60 mm	Max. 25 VA	8.6 kg

1) Actuating time freely adjustable, presetting is marked with *
2) Only retified alternating voltage
3) Invertible input and output signal
4) Freely adjustable

Electric actuators with microcontroller

DIGICONTROL S-MC1000-...

for two-way and three-way valves
V-BR216GF-... | V-BR316GF-...

Data sheet number 84800

Electric actuators with microcontroller for two-way and three-way valves

Features

- Microprocessor controlled with automatic self-calibration during commissioning
- LED indication of actuator status
- Signal processing by a wear-free distance measuring system by means of a Hall sensor
- Permanent storage of stroke in EPROM memory, values can not be lost
- Wire break recognition in 2...10 V DC and 4...20 mA operation
- Bonnet detachable in four positions, 90° locking, no screws required
- Safety position for switching a binary signal (frost protection)
- Pull-out manual adjustment with feedback signal
- Fault recognition in continuous operation (in case of blockage due to external influence)
- Input and output signal independently reversible
- Input signal freely adjustable: 3-point or modulating
- Hysteresis freely adjustable 0.05 V / 0.15 V / 0.3 V or 0.5 V in continuous operation
- Shockproof at 230 V AC, no protective conductor (PE) necessary

TECHNICAL DATA

Outputs	0...10 V DC / max. 8 mA / min. 1200 Ohm
Inputs	3-point, 0(2)...10 V DC / 77 kOhm; 0(4)...20 mA / 0.51 kOhm
Frequency	50/60 ± 5 % Hz
Actuating power	10 kN
Actuating time	1 s/mm
Operating mode	S3-30 % ED c/h 1200 acc. EN 60034-1
Hysteresis	0.05 | 0.15 | 0.3 | 0.5 V
End position switch-off	Load-dependent
Protection class	IP54
Operating temperature	-10...+60 °C

TYPE LIST

TYPE	VOLTAGE	STROKE	POWER CONSUMPTION	WEIGHT
S-MC1000-24	24 V AC/DC +/- 10 %	Max. 60 mm	Max. 50 VA	11.0 kg
S-MC1000-230	230 V AC +6 % / -10 %	Max. 60 mm	Max. 63 VA	11.0 kg

1) Actuating time freely adjustable, presetting is marked with *
2) Only retified alternating voltage
3) Invertible input and output signal
4) Freely adjustable

Electric actuators with microcontroller

DIGICONTROL S-MC1003-...

for two-way and three-way valves
V-BR216-... | V-BR316-...
V-BR225-... | V-BR325-...
V-BR240S-... | V-BR340S-...
V-BR240E-... | V-BR340E-...

Data sheet number 84810

Electric actuators with microcontroller for two-way and three-way valves

Features

- Microprocessor controlled with automatic self-calibration during commissioning
- LED indication of actuator status
- Signal processing by a wear-free distance measuring system by means of a Hall sensor
- Permanent storage of stroke in EPROM memory, values can not be lost
- Wire break recognition in 2...10 V DC and 4...20 mA operation
- Bonnet detachable in four positions, 90° locking, no screws required
- Safety position for switching a binary signal (frost protection)
- Pull-out manual adjustment with feedback signal
- Fault recognition in continuous operation (in case of blockage due to external influence)
- Input and output signal independently reversible
- Input signal freely adjustable: 3-point or modulating
- Hysteresis freely adjustable 0.05 V / 0.15 V / 0.3 V or 0.5 V in continuous operation
- Shockproof at 230 V AC, no protective conductor (PE) necessary

TECHNICAL DATA

Outputs	0...10 V DC / max. 8 mA / min. 1200 Ohm
Inputs	3-point, 0(2)...10 V DC / 77 kOhm; 0(4)...20 mA / 0.51 kOhm
Frequency	50/60 ± 5 % Hz
Actuating power	10 kN
Actuating time	1 s/mm
Operating mode	S3-30 % ED c/h 1200 acc. EN 60034-1
Hysteresis	0.05 | 0.15 | 0.3 | 0.5 V
End position switch-off	Load-dependent
Protection class	IP54
Operating temperature	-10...+60 °C

TYPE LIST

TYPE	VOLTAGE	STROKE	POWER CONSUMPTION	WEIGHT
S-MC1003-24	24 V AC/DC +/- 10 %	Max. 80 mm	Max. 50 VA	11.5 kg
S-MC1003-230	230 V AC +6 % / -10 %	Max. 80 mm	Max. 63 VA	11.5 kg

1) Actuating time freely adjustable, presetting is marked with *
2) Only retified alternating voltage
3) Invertible input and output signal
4) Freely adjustable

Electric actuators with microcontroller

DIGICONTROL S-MC1503-...

for two-way and three-way valves
V-BR216-... | V-BR316-...
V-BR225-... | V-BR325-...
V-BR240S-... | V-BR340S-...
V-BR240E-... | V-BR340E-...

Data sheet number 84820

Electric actuators with microcontroller for two-way and three-way valves

Features
- Microprocessor controlled with automatic self-calibration during commissioning
- LED indication of actuator status
- Signal processing by a wear-free distance measuring system by means of a Hall sensor
- Permanent storage of stroke in EPROM memory, values can not be lost
- Wire break recognition in 2...10 V DC and 4...20 mA operation
- Bonnet detachable in four positions, 90° locking, no screws required
- Safety position for switching a binary signal (frost protection)
- Pull-out manual adjustment with feedback signal
- Fault recognition in continuous operation (in case of blockage due to external influence)
- Input and output signal independently reversible
- Input signal freely adjustable: 3-point or modulating
- Hysteresis freely adjustable 0.05 V / 0.15 V / 0.3 V or 0.5 V in continuous operation
- Shockproof at 230 V AC, no protective conductor (PE) necessary

TECHNICAL DATA

Outputs	0...10 V DC / max. 8 mA / min. 1200 Ohm
Inputs	3-point, 0(2)...10 V DC / 77 kOhm; 0(4)...20 mA / 0.51 kOhm
Frequency	50/60 ± 5 % Hz
Actuating power	15 kN
Actuating time	2 s/mm
Operating mode	S3-30 % ED c/h 1200 acc. EN 60034-1
Hysteresis	0.05 | 0.15 | 0.3 | 0.5 V
End position switch-off	Load-dependent
Protection class	IP54
Operating temperature	-10...+50 °C

TYPE LIST

TYPE	VOLTAGE	STROKE	POWER CONSUMPTION	WEIGHT
S-MC1503-24	24 V AC/DC +/- 10 %	Max. 80 mm	Max. 50 VA	11.5 kg
S-MC1503-230	230 V AC +6 % / -10 %	Max. 80 mm	Max. 63 VA	11.5 kg

1) Actuating time freely adjustable, presetting is marked with *
2) Only retified alternating voltage
3) Invertible input and output signal
4) Freely adjustable

Control and shutoff valves

DIGICONTROL V-BR12

for actuators S-M130/140/180

Data sheet number 85210

Intermediate flange butterfly valve for use in HVAC, sanitary, service water and industrial plants for different media from -10 to +110 °C.

Features

- Tight-closing damper
- Control and shutt-off butterfly valves for open and closed circuits
- Centrically mounted valve disk
- Rotary actuator with disengageable actuator
- Direction of rotation indicator

TECHNICAL DATA

Shaft sealing	EPDM
Incident flow	From both sides if required
Seat ring	EPDM
Valve disk	DN25 – DN40: austenitic cast steel 1.4408 DN50 – DN400: spheroidal cast iron GGG40 EN-JS1030 with Nylon11 coating
Medium	Cold-, hot- and industrial water, water with max. 50 % antifreeze fluid and anti corrosion fluid: glycol, glycerin, ethylene-glycol, propylene-glycol, ethanol, methanol, Antifrogen® N+L
Pressure stage	PN 6 - 16
Overall length	According to EN 558-1 basic series 20
Leakage rate	EN 1349 - seat leakage VI G1 (closes tightly)
Spindle	CrNi-steel 1.4405
Mounting	Intermediate flange design with centring lugs PN 6-16
Housing	Grey cast iron GG25 EN-JL1040 with polyester power coating

TYPE LIST

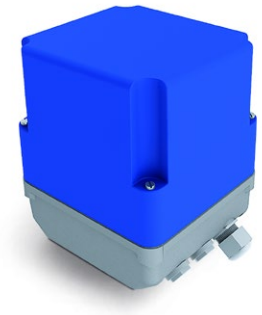
TYPE	DIAMETER NOMINAL	KVS
V-BR12-25	DN 25	52 m^3/h
V-BR12-32	DN 32	72 m^3/h
V-BR12-40	DN 40	126 m^3/h
V-BR12-50	DN 50	124 m^3/h
V-BR12-65	DN 65	243 m^3/h
V-BR12-80	DN 80	397 m^3/h
V-BR12-100	DN 100	723 m^3/h
V-BR12-125	DN 125	1083 m^3/h
V-BR12-150	DN 150	1591 m^3/h
V-BR12-200	DN 200	2852 m^3/h

Rotary drive for control and shutoff valves

DIGICONTROL S-M130

for control and shutoff valves V-BR12

Rotary drive for the operation of control and shutoff valves in water-side systems.



TECHNICAL DATA

Inputs	3-point
Frequency	50/60 ± 5 % Hz
Actuating time	130 s/mm
Operating mode	S1-100 % ED c/h 1200 EN 60034-1
End position switch-off	Is set to travel-dependent
Protection class	IP54
Ambient temperature	0...50 °C

TYPE LIST

TYPE	VOLTAGE	POWER CONSUMPTION	TORQUE	WEIGHT
S-M130N	230 V AC +6 % / -10 %	6.5 VA	35 Nm	1.2 kg
S-M130K	24 V AC +/- 10 %	8 VA	35 Nm	1.2 kg

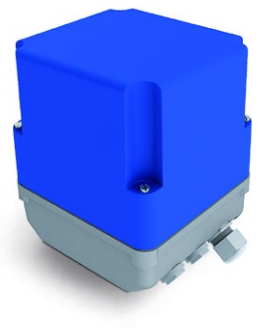
ACCESSORY

TYPE	DESCRIPTION
S-AE01.1	2 switches (WE3/WE4), potential free, infinitely adjustable, rated load: max. 10 A / 250 V AC
S-AE07	Potentiometer with attachment0.2 / 1 / 10 kOhm 1.5 VA

Rotary drive for control and shutoff valves

DIGICONTROL S-M140

for control and shutoff valves V-BR12



Rotary drive for the operation of control and shutoff valves in water-side systems.

TECHNICAL DATA

Inputs	3-point
Frequency	50/60 ± 5 % Hz
Actuating time	10 s/mm
Operating mode	S3-50 % ED c/h 1200 acc. EN 60034-1
End position switch-off	Is set to travel-dependent
Protection class	IP54
Ambient temperature	0...50 °C

TYPE LIST

TYPE	VOLTAGE	POWER CONSUMPTION	TORQUE	WEIGHT
S-M140N	230 V AC +6 % / -10 %	55 VA	50 Nm	3 kg
S-M140K	24 V AC +/- 10 %	57 VA	50 Nm	3 kg

ACCESSORY

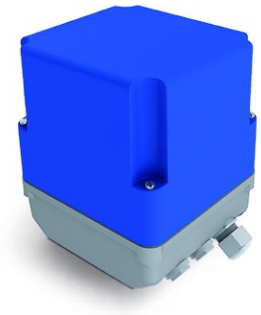
TYPE	DESCRIPTION
S-AE05.1	Actuator heating 24 V 25 VA
S-AH-230	Actuator heating 230 V 25 VA
S-AE01.1	2 switches (WE3/WE4), potential free, infinitely adjustable, rated load: max. 10 A / 250 V AC
S-AE07	Potentiometer with attachment0.2 / 1 / 10 kOhm 1.5 VA

Rotary drive for control and shutoff valves

DIGICONTROL S-M180

for control and shutoff valves V-BR12

Rotary drive for the opeartion of control and shutoff valves in water-side systems.



TECHNICAL DATA

Inputs	3-point
Frequency	50/60 ± 5 % Hz
Actuating time	130 s/mm
Operating mode	S3-60 % ED c/h 1200 EN 60034-1
End position switch-off	Is set to travel-dependent
Protection class	IP54
Ambient temperature	0...50 °C

TYPE LIST

TYPE	VOLTAGE	POWER CONSUMPTION	TORQUE	WEIGHT
S-M180N	230 V AC +6 % / -10 %	26 VA	80 Nm	3 kg
S-M180K	24 V AC +/- 10 %	26 VA	80 Nm	3 kg

ACCESSORY

TYPE	DESCRIPTION
S-AE05.1	Actuator heating 24 V 25 VA
S-AH-230	Actuator heating 230 V 25 VA
S-AE07	Potentiometer with attachment0.2 / 1 / 10 kOhm 1.5 VA
S-AE01.1	2 switches (WE3/WE4), potential free, infinitely adjustable, rated load: max. 10 A / 250 V AC

Butterfly valves with actuator

DIGICONTROL V-BR12-xxM

TYPE LIST

TYPE	CLOSING PRESSURE/KPA
V-BR12-25M130K	1000
V-BR12-32M130K	1000
V-BR12-40M130K	1000
V-BR12-50M130K	1200
V-BR12-65M130K	1200
V-BR12-80M130K	1200
V-BR12-25M130N	1000
V-BR12-32M130N	1000
V-BR12-40M130N	1000
V-BR12-50M130N	1200
V-BR12-65M130N	1200
V-BR12-80M130N	1200
V-BR12-25M140K	1000
V-BR12-32M140K	1000
V-BR12-40M140K	1000
V-BR12-50M140K	1200
V-BR12-65M140K	1200
V-BR12-80M140K	1200
V-BR12-100M140K	350
V-BR12-25M140N	1000
V-BR12-32M140N	1000
V-BR12-40M140N	1000
V-BR12-50M140N	1200

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TYPE LIST

TYPE	CLOSING PRESSURE/KPA
V-BR12-65M140N	1200
V-BR12-80M140N	1200
V-BR12-100M140N	350
V-BR12-125M180K	350
V-BR12-150M180K	350
V-BR12-200M180K	350
V-BR12-125M180N	350
V-BR12-150M180N	350
V-BR12-200M180N	350

Damper actuators for air damper sizes up to approx 1 m²

DIGICONTROL S-LM...

Valve drives for adjusting air valves in the building infrastructure ventilation and air conditioning systems.

TECHNICAL DATA

Air damper sizes	Up to approx. 1 m²
Damper spindle	6...20 mm
Manual override	Gear disengagement with push button, can be locked
Connection	1 m connecting cable
Direction of rotation	Selectable with switch
Angle of rotation	Max. 95°, can be limited at both ends with adjustable mechanical end stops
Torque	5 Nm
Position indication	Mechanical, pluggable
Sound power level	≤35 dB(A) in case of 150 s
Protection class	IP54
Storage temperature	-40...+80 °C
Operating temperature	-30...+50 °C
Ambient humidity	95 % rh. (non-condensing)
Standards/rules/guidelines/ approvals	CE according to 2004/108/EC

TYPE LIST

TYPE	DATA SHEET	VOLTAGE	CONTROL. SIGN.	OPERATING RANGE	RUN. TIME
S-LM24A	84430.6	24 V AC/DC	Open-close or 3-point		150 s / 90°
S-LM230A	84430.8	230 V AC	Open-close or 3-point		150 s / 90°
S-LM24A-SR	84430.7	24 V AC/DC	0...10 V DC, 100 kΩ	0...10 V DC for 0...100 %	150 s / 90°
S-LM24A-MP	84430.5	24 V AC/DC	param.		150 s / 90°

ACCESSORY

TYPE	DESCRIPTION
S-S1A	Plug-in add-on limit switch (EPU), 1 mA ... 3 (0.5) A, 250 V AC, adjustable switching point 0...100 %
S-AV6-20	Axle extension, approx. 170 mm for valves axles Ø 6...20 mm, Ø extension 10 mm
S-P1000A	Plug-in feedback potentiometer 1000 Ω
S-S2A	2 plug-in add-on limit switches (EPU), 1 mA ... 3 (0.5) A, 250 V AC, adjustable switching point 0...100 %

Damper actuators for air damper sizes up to approx 2 m²

DIGICONTROL S-NM...

Valve drives for adjusting air valves in the building infrastructure ventilation and air conditioning systems.

TECHNICAL DATA

Air damper sizes	Up to approx. 2 m²
Damper spindle	8...26 mm
Manual override	Gear disengagement with push button, can be locked
Connection	1 m connecting cable
Direction of rotation	Selectable with switch
Angle of rotation	Max. 95°, can be limited at both ends with adjustable mechanical end stops
Torque	10 Nm
Position indication	Mechanical, pluggable
Sound power level	≤35 dB(A) in case of 150 s
Protection class	IP54
Storage temperature	-40...+80 °C
Operating temperature	-30...+50 °C
Ambient humidity	95 % rh. (non-condensing)
Standards/rules/guidelines/ approvals	CE according to 2004/108/EC

TYPE LIST

TYPE	DATA SHEET	VOLTAGE	CONTROL. SIGN.	OPERATING RANGE	RUN. TIME
S-NM24A	84430.1	24 V AC/DC	Open-close or 3-point		150 s / 90°
S-NM230A	84430.4	230 V AC	Open-close or 3-point		150 s / 90°
S-NM24A-SR	84430.3	24 V AC/DC	0...10 V DC, 100 kΩ	0...10 V DC for 0...100 %	150 s / 90°
S-NM24A-MP	84430.2	24 V AC/DC	param.		150 s / 90°

ACCESSORY

TYPE	DESCRIPTION
S-S1A	Plug-in add-on limit switch (EPU), 1 mA ... 3 (0.5) A, 250 V AC, adjustable switching point 0...100 %
S-ZG-NMA	Mounting set for linkage actuation for flat and side mounting
S-AV8-25	Axle extension, approx. 250 mm for valves axles Ø 8 ... 25 mm, Ø extension 20 mm
S-P1000A	Plug-in feedback potentiometer 1000 Ω
S-S2A	2 plug-in add-on limit switches (EPU), 1 mA ... 3 (0.5) A, 250 V AC, adjustable switching point 0...100 %

Damper actuators for air damper sizes up to approx 4 m²

DIGICONTROL S-SM...

Valve drives for adjusting air valves in the building infrastructure ventilation and air conditioning systems.

TECHNICAL DATA

Air damper sizes	Up to approx. 4 m²
Damper spindle	10...20 mm
Manual override	Gear disengagement with push button, can be locked
Connection	1 m connecting cable
Direction of rotation	Selectable with switch
Angle of rotation	Max. 95°, can be limited at both ends with adjustable mechanical end stops
Torque	20 Nm
Position indication	Mechanical, pluggable
Sound power level	≤45 dB(A) in case of 150 s
Protection class	IP54
Storage temperature	-40...+80 °C
Operating temperature	-30...+50 °C
Ambient humidity	95 % rh. (non-condensing)
Standards/rules/guidelines/ approvals	CE according to 2004/108/EC

TYPE LIST

TYPE	DATA SHEET	VOLTAGE	CONTROL. SIGN.	OPERATING RANGE	RUN. TIME
S-SM24A	84400.1	24 V AC/DC	Open-close or 3-point		150 s / 90°
S-SM230A	84400.5	230 V AC	Open-close or 3-point		150 s / 90°
S-SM24A-SR	84400.3	24 V AC/DC	0...10 V DC, 100 kΩ	0...10 V DC for 0...100 %	150 s / 90°
S-SM24A-MP	84400.2	24 V AC/DC	param.		150 s / 90°

ACCESSORY

TYPE	DESCRIPTION
S-S1A	Plug-in add-on limit switch (EPU), 1 mA ... 3 (0.5) A, 250 V AC, adjustable switching point 0...100 %
S-AV8-25	Axle extension, approx. 250 mm for valves axles Ø 8 ... 25 mm, Ø extension 20 mm
S-ZG-SMA	Mounting set for linkage actuation for flat and side mounting
S-P1000A	Plug-in feedback potentiometer 1000 Ω
S-S2A	2 plug-in add-on limit switches (EPU), 1 mA ... 3 (0.5) A, 250 V AC, adjustable switching point 0...100 %

Damper actuators for air damper sizes up to approx 8 m²

DIGICONTROL S-GM...

Valve drives for adjusting air valves in the building infrastructure ventilation and air conditioning systems.

TECHNICAL DATA

Air damper sizes	Up to approx. 8 m²
Damper spindle	10...20 mm
Manual override	Gear disengagement with push button, can be locked
Connection	1 m connecting cable
Direction of rotation	Selectable with switch
Angle of rotation	Max. 95°, can be limited at both ends with adjustable mechanical end stops
Torque	40 Nm
Position indication	Mechanical, pluggable
Sound power level	≤45 dB(A) in case of 150 s
Protection class	IP54
Storage temperature	-40...+80 °C
Operating temperature	-30...+50 °C
Ambient humidity	95 % rh. (non-condensing)
Standards/rules/guidelines/ approvals	CE according to 2004/108/EC

TYPE LIST

TYPE	DATA SHEET	VOLTAGE	CONTROL. SIGN.	OPERATING RANGE	RUN. TIME
S-GM24A	84410.1	24 V AC/DC	Open-close or 3-point		150 s / 90°
S-GM230A	84410.4	230 V AC	Open-close or 3-point		150 s / 90°
S-GM24A-SR	84410.2	24 V AC/DC	0...10 V DC, 100 kΩ	0...10 V DC for 0...100 %	150 s / 90°
S-GM24A-MP	84410.5	24 V AC/DC	param.		150 s / 90°

ACCESSORY

TYPE	DESCRIPTION
S-S1A	Plug-in add-on limit switch (EPU), 1 mA ... 3 (0.5) A, 250 V AC, adjustable switching point 0...100 %
S-ZG-GMA	Mounting set for linkage actuation for flat and side mounting
S-P1000A	Plug-in feedback potentiometer 1000 Ω
S-S2A	2 plug-in add-on limit switches (EPU), 1 mA ... 3 (0.5) A, 250 V AC, adjustable switching point 0...100 %

Spring return actuators for air damper sizes up to approx 0,8 m²

DIGICONTROL S-LF...

Spring return valve drives for adjusting air valves in the building infrastructure ventilation and air conditioning systems.

TECHNICAL DATA

Air damper sizes	Up to approx. 0,8 m²
Damper spindle	8...16 mm
Running time emergency control function	Approx. 20 s / 90°
Manual override	No manual override
Connection	1 m connecting cable
Direction of rotation	Can be selected by mounting L / R
Angle of rotation	Max. 95°, can be limited at both ends with adjustable mechanical end stops
Torque	4 Nm
Position indication	Mechanical, pluggable
Sound power level	Motor: ≤50 dB(A) in case of 75 s / Emergency control function: 62 dB(A)
Protection class	IP54
Storage temperature	-40...+80 °C
Operating temperature	-30...+50 °C
Ambient humidity	95 % rh. (non-condensing)
Standards/rules/guidelines/ approvals	CE according to 2004/108/EC

TYPE LIST

TYPE	DATA SHEET	VOLTAGE	CONTROL. SIGN.	POS FEEDB.	OPERATING RANGE	RUN. TIME
S-LF24-S	84325.1	24 V AC/DC	Open-close	Auxiliary switch, 1 x SPDT		40...75 s / 90°
S-LF230-S	84325.3	230 V AC	Open-close	Auxiliary switch, 1 x SPDT		40...75 s / 90°
S-LF24-SR	84325.2	24 V AC/DC	0...10 V DC, 100 kΩ	2...10 V DC, max. 1 mA	2...10 V DC for 0...100 %	40...75 s / 90°
S-LF24-MFT2	84325.5	24 V AC/DC	param.			150 s / 90°

ACCESSORY

TYPE	DESCRIPTION
S-AV6-20	Axle extension, approx. 170 mm for valves axles Ø 6...20 mm, Ø extension 10 mm

Spring return actuators for air damper sizes up to approx 4 m²

DIGICONTROL S-SF...

Spring return valve drives for adjusting air valves in the building infrastructure ventilation and air conditioning systems.

TECHNICAL DATA

Air damper sizes	Up to approx. 4 m²
Damper spindle	10...25,4 mm
Running time emergency control function	Approx. 20 s / 90°
Manual override	Hand crank
Connection	1 m connecting cable
Direction of rotation	Can be selected by mounting L / R
Angle of rotation	Max. 95°, can be limited at both ends with adjustable mechanical end stops
Torque	20 Nm
Position indication	Mechanical, pluggable
Sound power level	Motor: ≤45 dB(A) in case of 75 s / Emergency control function: 62 dB(A)
Protection class	IP54
Storage temperature	-40...+80 °C
Operating temperature	-30...+50 °C
Ambient humidity	95 % rh. (non-condensing)
Standards/rules/guidelines/ approvals	CE according to 2014/30/EU

TYPE LIST

TYPE	DATA SHEET	VOLTAGE	CONTROL. SIGN.	POS FEEDB.	OPERATING RANGE	RUN. TIME
S-SFA-S2	84340.3	AC 24...240 V DC 24...125 V	Open-close	Auxiliary switch, 2 x SPDT		75 s / 90°
S-SF24A	84340.1	24 V AC/DC	Open-close			75 s / 90°
S-SF24A-S2	84340.2	24 V AC/DC	Open-close	Auxiliary switch, 2 x SPDT		75 s / 90°
S-SF24A-SR	84340.4	24 V AC/DC	0...10 V DC, 100 kΩ	2...10 V DC, max. 1 mA	2...10 V DC for 0...100 %	75 s / 90°
S-SF24A-MP	84340.6	24 V AC/DC	param.			150 s / 90°

ACCESSORY

TYPE	DESCRIPTION
S-ZG-AFB	Mounting set for linkage actuation for flat and side mounting
S-AV8-25	Axle extension, approx. 250 mm for valves axles Ø 8 ... 25 mm, Ø extension 20 mm

Heating and cooling energy meter (compact) with volume transmitter as ultrasonic flow meter

DIGICONTROL W-MC603...

Data sheet number 83310

Ultrasonic meter for measuring and registering heating and cooling energy consumption. MULTICAL® 603 calculator with M-Bus module pursuant to EN 13757 with two additional pulse inputs in Pt 500 design with connection bracket and optical interface. Mains operation with enhanced logging and data logger. Ultrasonic flow sensor including 2.5 m connection cable up to DN100 and 5m from DN150. Two temperature sensors Pt 500 as DS/10 direct sensors with 1.5 m cable and connecting nipple 1/2 or temperature sensor with Niro immersion sleeves.

TECHNICAL DATA

Voltage	■ 230 V AC +15 / -30 %, 50/60 Hz ■ 24 V AC +/-50 %, 50/60 Hz ■ Battery supply
Media temperature	■ Cold: +2...+50 °C ■ Warmth: +15...+130 °C
Interfaces	M-bus
Installation position	Horizontal/vertical
Lifespan	Battery: up to 16 years
Protection class	IP65
Ambient temperature	-5...+55 °C
Storage temperature	-25...+60 °C
Environmental class	EN 1434 designation: A and C
Standards/rules/guidelines/ approvals	Approval: Standard: prEN 1434:2014 and OIML R75:2002 DK-0200-MI004-020 EU-directives: MID, LVD, EMC MID designation: Mechanical environment Class M1 and M2 Electromagnetic environment Class E1 and E2
Other remarks	Niro immersion sleeves: Length 65/90/140 mm (Standard: 65 mm for DN40 up to DN65, 90 mm up to DN80, 140 mm from DN100) Standard sensor cable length: Length 1.5/3/5/10 m (Standard: 1.5 m up to DN25, 3 m from DN40, 5 m from DN150) Threaded version: incl. threaded connecting parts

TYPE LIST

TYPE	QP	MEDIUM	DIAMETER NOMINAL	PRESSURE STAGE	CONNECTION	OVERALL LENGTH
W-MC603W-0,6G15	0.6 m^3/h	Heat	DN 15	PN16	G 3/4 B	110 mm
W-MC603W-0,6G20	0.6 m^3/h	Heat	DN 20	PN25/16	G 1 B	130 mm
W-MC603W-1,5G15	1.5 m^3/h	Heat	DN 15	PN16	G 3/4 B	110 mm
W-MC603K-1,5G15	1.5 m^3/h	Cooling	DN 15	PN16	G 3/4 B	110 mm

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TYPE LIST

TYPE	QP	MEDIUM	DIAMETER NOMINAL	PRESSURE STAGE	CONNECTION	OVERALL LENGTH
W-MC603W-1,5G20	1.5 m^3/h	Heat	DN 20	PN25/16	G 1 B	130 mm
W-MC603K-1,5G20	1.5 m^3/h	Cooling	DN 20	PN25/16	G 1 B	130 mm
W-MC603W-2,5G20	2.5 m^3/h	Heat	DN 20	PN25/16	G 1 B	190 mm
W-MC603K-2,5G20	2.5 m^3/h	Cooling	DN 20	PN25/16	G 1 B	190 mm
W-MC603W-3,5G25	3.5 m^3/h	Heat	DN 25	PN25/16	G 5/4 B	260 mm
W-MC603K-3,5G25	3.5 m^3/h	Cooling	DN 25	PN25/16	G 5/4 B	260 mm
W-MC603W-6F25	6 m^3/h	Heat	DN 25	PN25	Flange	260 mm
W-MC603K-6F25	6 m^3/h	Cooling	DN 25	PN25	Flange	260 mm
W-MC603W-6G25	6 m^3/h	Heat	DN 25	PN25/16	G 5/4 B	260 mm
W-MC603K-6G25	6 m^3/h	Cooling	DN 25	PN25/16	G 5/4 B	260 mm
W-MC603W-10F40	10 m^3/h	Heat	DN 40	PN25	Flange	300 mm
W-MC603K-10F40	10 m^3/h	Cooling	DN 40	PN25	Flange	300 mm
W-MC603W-10G40	10 m^3/h	Heat	DN 40	PN25/16	G 2 B	300 mm
W-MC603K-10G40	10 m^3/h	Cooling	DN 40	PN25/16	G 2 B	300 mm
W-MC603W-15F50	15 m^3/h	Heat	DN 50	PN25	Flange	270 mm
W-MC603K-15F50	15 m^3/h	Cooling	DN 50	PN25	Flange	270 mm
W-MC603W-25F65	25 m^3/h	Heat	DN 65	PN25	Flange	300 mm
W-MC603K-25F65	25 m^3/h	Cooling	DN 65	PN25	Flange	300 mm
W-MC603W-40F80	40 m^3/h	Heat	DN 80	PN25	Flange	300 mm
W-MC603K-40F80	40 m^3/h	Cooling	DN 80	PN25	Flange	300 mm
W-MC603W-60F100	60 m^3/h	Heat	DN 100	PN25	Flange	360 mm
W-MC603K-60F100	60 m^3/h	Cooling	DN 100	PN25	Flange	360 mm

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TYPE LIST

TYPE	QP	MEDIUM	DIAMETER NOMINAL	PRESSURE STAGE	CONNECTION	OVERALL LENGTH
W-MC603W-100F100	100 m³/h	Heat	DN 100	PN25	Flange	360 mm
W-MC603K-100F100	100 m³/h	Cooling	DN 100	PN25	Flange	360 mm
W-MC603W-150F150	150 m³/h	Heat	DN 150	PN25	Flange	500 mm
W-MC603K-150F150	150 m³/h	Cooling	DN 150	PN25	Flange	500 mm
W-MC603W-250F150	250 m³/h	Heat	DN 150	PN25	Flange	500 mm
W-MC603K-250F150	250 m³/h	Cooling	DN 150	PN25	Flange	500 mm
W-MC603W-400F150	400 m³/h	Heat	DN 150	PN25	Flange	500 mm
W-MC603K-100F125	100 m³/h	Cooling	DN 125	PN25	Flange	350 mm
W-MC603W-100F125	100 m³/h	Heat	DN 125	PN25	Flange	350 mm
W-MC603K-400F150	400 m³/h	Cooling	DN 150	PN25	Flange	500 mm
W-MC603W-600F200	600 m³/h	Heat	DN 200	PN25	Flange	500 mm
W-MC603K-600F200	600 m³/h	Cooling	DN 200	PN25	Flange	500 mm
W-MC603W-1000F250	1000 m³/h	Heat	DN 250	PN25	Flange	600 mm
W-MC603K-1000F250	1000 m³/h	Cooling	DN 250	PN25	Flange	600 mm

ACCESSORY

TYPE	DESCRIPTION
W-MC-Modbus RTU	Modbus RTU interface
W-MC-LON	LON-Bus interface
W-MC-BACnet MS/TP	BACnet MS/TP interface
W-MC-WH	Wall bracket for calculator

Water meter (compact) with volume transmitter

DIGICONTROL W-MC62...IQ

Data sheet number 83401

Ultrasonic water meter for measuring and registering water consumption. Calculator with RTC and M-Bus module according to EN 13757 with two additional pulse inputs, connection console andoptical interface. Mains operation 230 V AC with extended logging and data logger. Ultrasonic flow sensor incl. 2.5 m connection cable and threaded connection parts.

TECHNICAL DATA

Voltage	■ Battery supply ■ 230 V AC +15 / -30 %, 50/60 Hz ■ 24 V AC +/-50 %, 50/60 Hz
Media temperature	0.1...70 °C
Interfaces	Wireless M-bus, linkIQ
Installation position	Horizontal/vertical
Lifespan	Battery: up to 20 years
Protection class	Calculator IP65 Flow part IP68
Ambient temperature	-10...55 °C
Storage temperature	-25...+60 °C
Environmental class	Mechanical environment Class M1; Electromagnetic environment Class E1
Standards/rules/guidelines/ approvals	Approvals: DK-0200-MI001-039 Norms: OIML R49 Class B and O EU guidelines: MID E1 and E2, KIWA
Other remarks	Threaded version: incl. threaded connecting parts and backflow protection device in some instances

TYPE LIST

TYPE	QP	MEASURING RANGE	DIAMETER NOMINAL	PRESSURE STAGE	CONNECTION	OVERALL LENGTH
W-MC62-1,6G15IQ	1.6 m^3/h	0.016-2.0 m^3/h	DN 15	PN16	Thread	110 mm
W-MC62-2,5G20IQ	2.5 m^3/h	0.025-3.1 m^3/h	DN 20	PN16	Thread	190 mm
W-MC62-4G25IQ	20 m^3/h	0.040-5.0 m^3/h	DN 25	PN16	Thread	260 mm
W-MC62-6,3G25IQ	6.3 m^3/h	0.063-7.9 m^3/h	DN 25	PN16	Thread	260 mm
W-MC62-10G40IQ	10 m^3/h	0.100-12.5 m^3/h	DN 40	PN16	Thread	300 mm
W-MC62-16F50IQ	22 m^3/h	0.160-20.0 m^3/h	DN 50	PN25	Flange	270 mm
W-MC62-25F65IQ	25 m^3/h	0,250-31,3 m^3/h	DN 65	PN25	Flange	300 mm
W-MC62-40F80IQ	40 m^3/h	0.400-50.0 m^3/h	DN 80	PN25	Flange	300 mm

ACCESSORY

TYPE	DESCRIPTION
W-MC-Modbus RTU	Modbus RTU interface
W-MC-WH	Wall bracket for calculator
W-MC-LON	LON-Bus interface
W-MC-BACnet MS/TP	BACnet MS/TP interface