



Energy
Management



Water
Management

EY0002  JUL2026



Project valves catalogue

Advanced solutions for climate control. A comprehensive range of Giacomini valves and components designed for heating, cooling, and high-performance HVAC systems, ensuring efficiency and reliability in residential and commercial projects.

Catalogue

Project valves

The information, specifications, and prices of the products included in this catalog shall not be binding on Giacomini S.p.A. In case of technical and commercial modifications or printing mistakes.

Copy, also in part, of the catalog contents is forbidden, unless written authorization by Giacomini's Administration is provided.

EDITION July 2026. **PRINT** Tipolitografia Testori & C. snc.



Radiant systems

Metal radiant ceilings, represented by the GK Classic, GK Top and GK Ultra series, are the key heating and cooling solution for the commercial sector. They guarantee **high thermal performance and adapt to various architectural and functional needs**, as they can also be used as technical false ceilings. Alternatively, or in combination with radiant ceilings, the **fan coil range** offers compact and versatile devices available in different configurations and power levels, suitable for both concealed and exposed installations. The use of a dedicated pre-assembled kit facilitates the connection and adjustment of terminal units, **optimizing space and simplifying the overall management** of the air conditioning system.

Hydronic distribution

Hydronic systems require advanced tools to ensure pressure and **flow control of the heat transfer** fluid. To this end, Giacomini designs and manufactures specific valves that ensure static and dynamic **balancing as well as differential pressure regulation**.

These components are essential for turning a theoretical design into an efficient operational system, capable of meeting the needs of large buildings as well as smaller spaces. For complex systems, such as 4-pipe systems, **6-WAY zone valves** provide a simple, cost-effective, and safe solution for managing mode changes, ensuring consistent and reliable performance over time.

Fire protection

Giacomini is globally recognized for the engineering and production of components for **fire protection systems compliant with NFPA standards**, essential for protecting high-rise buildings. The range includes solutions for **stand-pipe systems**, such as hose valves, and for **sprinkler systems**, as well as a series of cross-functional components suitable for both applications. The catalog also features a new range of ball valves that meet the stringent parameters set by the latest version of the UL 258 standard. All Giacomini fire protection products are **certified by specialized agencies (UL and FM)**, ensuring maximum reliability and safety.



Proudly Italian, we are **pioneers in the production of components and integrated systems** for heating, air-conditioning, and domestic water and gas distribution, and committed to serving the residential, industrial and service sectors. Our passion for innovation and respect for the environment inform every choice we make because we firmly believe in pro-actively helping to create a sustainable future.

260 million euros of turnover*. **3** production plants in Italy. **130,000** m² dedicated to production. **900⁺** employees. **75%** export-driven turnover. **18** overseas branches and exclusive partners.



DISCOVER OUR
SUSTAINABILITY
REPORT





HEADQUARTERS AND BRASS PROCESSING DIVISION
San Maurizio d'Opaglio - Novara - Italy



PLASTIC MATERIAL PLANT
San Maurizio d'Opaglio - Novara - Italy



BRASS FORGING PLANT
Castelnuovo del Garda - Verona - Italy





For **75 years**, ideas have been at the heart of everything we do. **Ideas that become projects, solutions, new possibilities.** Ideas that respond to real needs, improve spaces, and make people's daily lives simpler and more comfortable. Ideas that guide **our commitment to sustainability**, balancing human progress with respect for the environment. At **Giacomini**, there is a new idea behind every turning point, behind every year of our history. Often, in fact, there is more than one. Because **for us, innovation means never stopping**, never ceasing to explore, but looking beyond to imagine and build the future.



DISCOVER
MORE ABOUT
THE **GIACOMINI**
WORLD



Giacomini solutions provide a unique, clear and comprehensive response to the specific needs of the sectors we serve and the people who use our products on a daily basis: designers, distributors, installers and end users themselves.

Our objective is to offer the market a specialized and integrated range of products and services that allows us to meet any requirement in the field of plant engineering, becoming a point of reference for our customers and partners.

OUR SOLUTIONS





Unique Home

It is the "all-in-one" solution for detached houses and individual units. Radiant heating and cooling, ventilation and hot domestic water become part of an integrated system that ensures maximum comfort, excellent indoor air quality and energy savings.

Residential Plus

It is the ideal solution for multi-residential buildings with centralized systems. It includes advanced technologies that optimize energy consumption and simplify operation of heating and cooling solutions, water management and thermoregulation.

Total Commercial

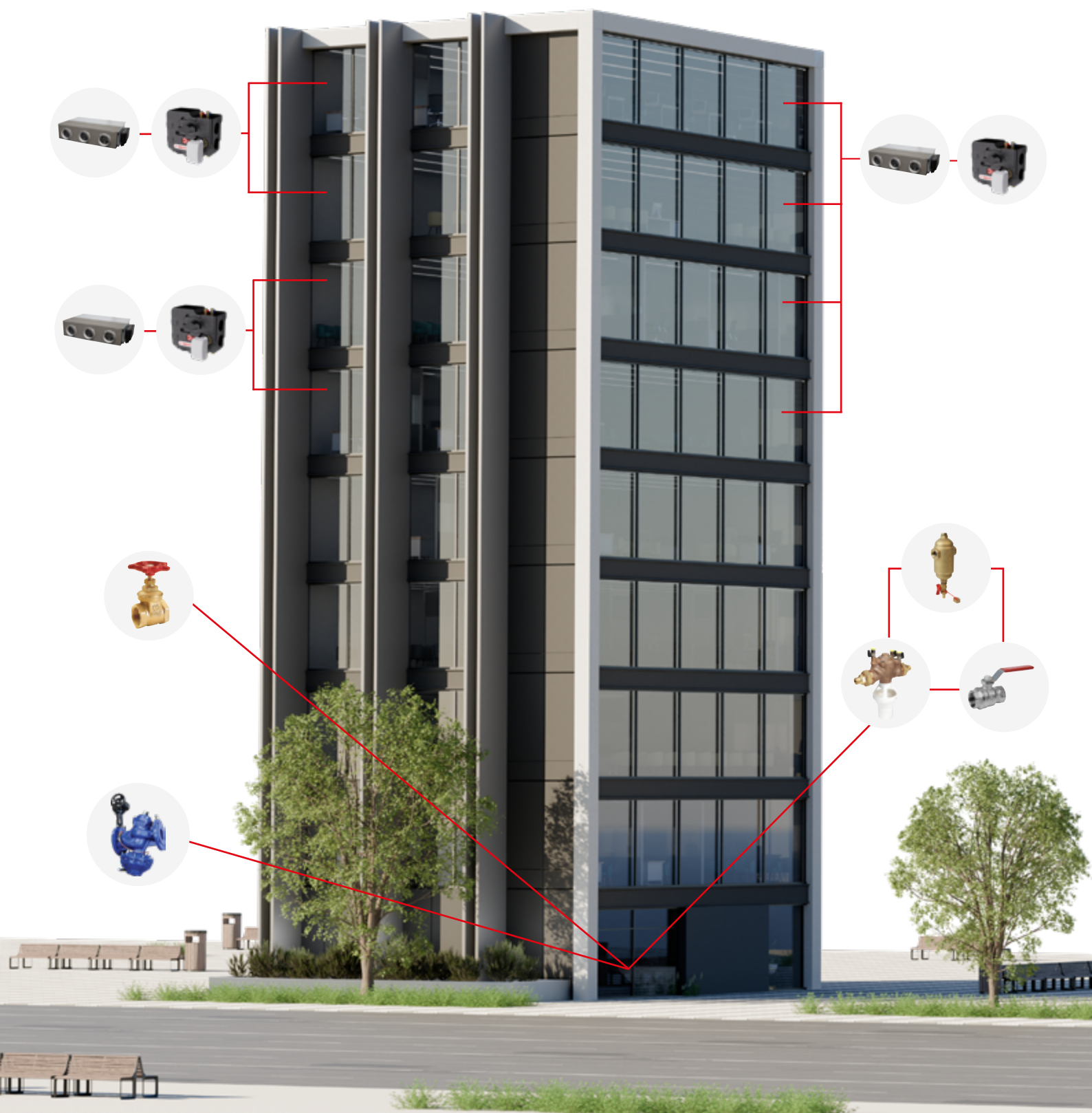
It is the integrated solution for the service sector: high-traffic public places, health care facilities, buildings and offices, skyscrapers for commercial operations. It includes a wide range of products for air conditioning, hydronic distribution and fire safety.

Giacomini Consulting

It provides customers and partners with all our know-how, which is the result of over seventy years of experience and the renowned technical and commercial expertise of our team. Consultancy and project assistance, training courses, conferences and webinars, video tutorials.

Giacomini offers a comprehensive range of advanced valves and systems for hydronic management in heating and cooling installations.
Giacomini solutions ensure energy efficiency and optimal thermal comfort in every project.

Solution A



Giacomini provides solutions for:

- **Static Balancing:** Manual balancing valves with pressure test points for the precise adjustment of design flow rates under constant load conditions.
- **Dynamic Balancing:** Pressure Independent Control Valves (PICVs), ideal for maintaining stable flow rates even when the system's hydraulic loads vary.
- **Differential Pressure Control:** Differential Pressure Control Valves (DPCVs) and pressure stabilizers that protect terminal circuits from pressure fluctuations, eliminating noise and reducing component wear.
- **Fan Coil Kits:** Compact, pre-assembled connection kits for fan coil units, integrating shut-off valves, bypasses, filters, and dynamic balancing devices into a single assembly to speed up on-site installation.
- **Plant Room Components:** Structural solutions for plant rooms, including high-capacity distribution manifolds, hydraulic separators, air separators, magnetic dirt separators, and safety valves for the protection of heat generators.

Solution B





BALANCING

R280KC

Fan coils valves kit, "Premium" version

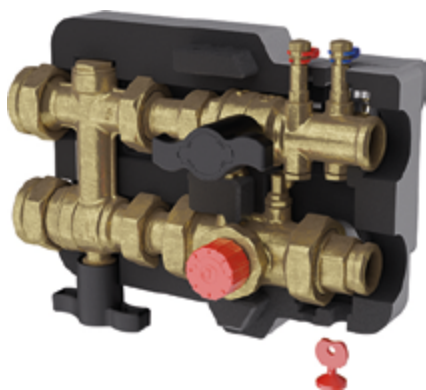
Preassembled compact kit, "Premium" version, combining the components required for balancing, control, flushing and commissioning of HVAC terminal units (fan coils, chilled beams, etc.) with the main distribution network. The kit consists of a diverting ball valve to bypass the unit, a full-port ball valve with integrated filter, a pressure independent control valve (PICV), a drain cock and four pressure ports to measure the differential pressure and the flow rate. Thanks to the two ball valves it is possible to clean the filter and operate on the unit with no need to drain the entire system. The kit is quick to install thanks to the use of only four connections, which also help prevent possible installation errors.

TECHNICAL DATA

- Working temperature range: 5÷120 °C.
- Max. working pressure: 25 bar (2,5 MPa).
- Working differential pressure range: 25÷400 kPa or 25÷800 kPa depending on the installed actuator.
- Actuator connection: M30 x 1,5 mm.

WORKING FLOW RATE RANGE

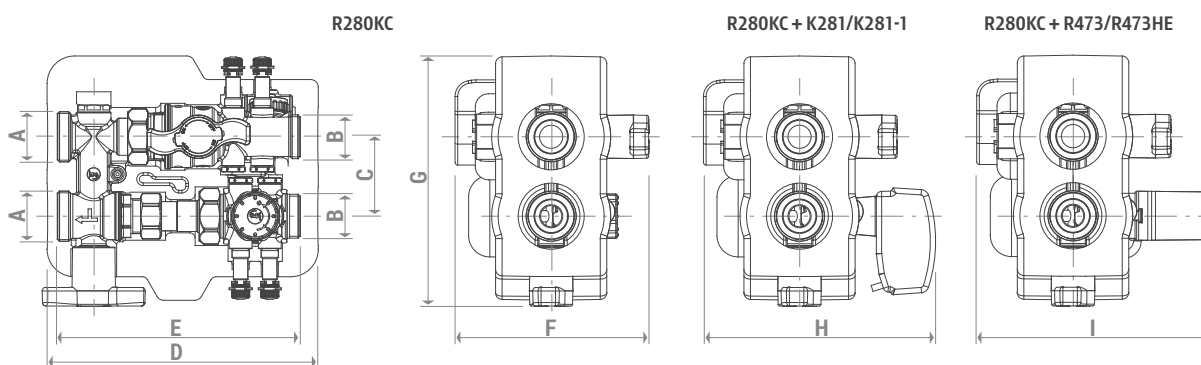
- R280KCY000: 32÷520 l/h (single setting scale)
- R280KCY001: 150÷380 l/h (LF); 180÷630 l/h (HF)
- R280KCY002: 290÷1000 l/h (LF); 860÷1500 l/h (HF)
- R280KCY003: 600÷3500 l/h (single setting scale)



VIEW OF INTERNAL COMPONENTS



R280KC WITH INSULATION AND ACTUATOR ASSEMBLED



PRODUCT CODE	CONNECTIONS A x B	DN	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]
R280KCY000 R280KCY100		15							
R280KCY001 R280KCY101	1-1/2"UNS-M x G 1"M		60	205	184	147	190	176	175
R280KCY002 R280KCY102		20							
R280KCY003 R280KCY103	G 1-1/2"M x G 1"M	25	80	314	265	140	212	178	N/A



Its pressure independent control valve (PICV) enables the regulation and maintenance of a constant flow rate in the terminal unit when the differential pressure of the main circuit varies. The terminal unit can also be isolated and the flow can be bypassed through the ball valves installed. The water flow entering the terminal unit, which also runs through the PICV, is filtered by the filter integrated in the shut-off ball valve. The drain cock drains the water during maintenance and flushing operations.

MAIN TECHNICAL DATA

- Fluids: water, glycol-based solutions (max. 50% of glycol)
- Working temperature range: 5÷120 °C
- Ambient temperature: 1÷50 °C
- Max. working pressure: 25 bar
- Working flow rate range (based on PICV setting): (see table below)
- Max. differential pressure at PICV ends: (see table below)
- Filtering capacity: 500 µm
- Venturi flow meter Kv: see table below
- Actuator connection: M30 x 1,5 mm

MATERIALS

- Main components:
 - **R280KCY000/001/002/003**: CW617N - EN 12165 BRASS
 - **R280KCY100/101/102/103**: CW602N - EN 12165 DZR BRASS
- PICV body: CW602N - EN 12165 DZR brass
- Ball valve gaskets: PTFE
- Gaskets of other components: EPDM
- Filter mesh: AISI 304 stainless steel
- Insulation:
 - **R280KCY000/001/002/100/101/102**: expanded EPP
 - **R280KCY003/103**: expanded PE

PRODUCT CODE	CENTER DISTANCE SUPPLY-RETURN [mm]	KIT Kv IN BY-PASS	Kv VENTURI FLOW METER	WORKING FLOW RATE RANGE [l/h]		WORKING DIFFERENTIAL PRESSURE RANGE [kPa]		ACTUATORS FOR PICV (accessories)	BRASS TYPE
				L (LOW)	H (HIGH)	WITH ACTUATOR R473/R473HE	WITH K281/K281-1 OR NO ACTUATOR		
R280KCY000			0,4	35÷520 (single range)					
R280KCY001	60	2,3	1,9	150÷380	180÷630	25÷400	25÷800	K281, K281-1, R473, R473HE	CW617N EN 12165
R280KCY002			4,5	290÷1000	860÷1500				
R280KCY003	80	3,7	9,0	600÷3500 (single range)		N.D.	25÷400	K281, K281-1	
R280KCY100			0,4	35÷520 (single range)					
R280KCY101	60	2,3	1,9	150÷380	180÷630	25÷400	25÷800	K281, K281-1, R473, R473HE	"DZR" CW602N EN 12165
R280KCY102			4,5	290÷1000	860÷1500				
R280KCY103	80	3,7	9,0	600÷3500 (single range)		N.D.	25÷400	K281, K281-1	

ACCESSORIES

- **K281X022 (K281)**: ON/OFF actuator, 24 V
- **K281X062 (K281-1)**: 0-10 V actuator for flow rate proportional linear control, 24 V
- **K281X063 (K281-1)**: 0-10 V actuator for flow rate proportional linear control, 24 V, with fail safe
- **R473X221 (R473)**: 230 V thermo-electric actuator, normally closed, 2-conductor wire, IP40, 2,5 W
- **R473X222 (R473)**: 24 V thermo-electric actuator, normally closed, 2-conductor wire, IP40, 2,5 W
- **R473HEX001 (R473HE)**: 230 V thermo-electric actuator, normally closed, 2-conductor wire, IP54, 1 W
- **R453FY002**: M30 x 1,5 mm adapter ring for installation of R473/R473M thermo-electric actuators
- **R225EY001**: electronic differential pressure gauge and flow rate calculator, including M10 x 1 mm needle probes
- **P206Y001**: pair of pressure ports
- **P206Y011**: pair of adjustable fittings with pressure ports
- **P15KFM**: pair of brass tail pieces, male-flat seat connections, complete with nuts and gaskets
- **P15KFF**, **R37KFF**: pair of brass tail pieces, female-flat seat connections, complete with nuts and gaskets
- **P15KEFM**: pair of eccentric brass tail pieces, male-flat seat connections, complete with nuts and gaskets, to reduce the supply-return center distance from 60 to 40 mm

TAIL PIECES FOR BOILER ROOM SIDE CONNECTIONS		
SERIES	PRODUCT CODE	CONNECTION
P15KFF*	P15FY023	1-1/2"UNS-F x G 1/2"F
	P15FY024	1-1/2"UNS-F x G 3/4"F
	P15FY025	1-1/2"UNS-F x G 1"F
R37KFF**	R37KY005	G 1-1/2"F x G 1"F

TAIL PIECES FOR FAN COIL SIDE CONNECTIONS		
SERIES	PRODUCT CODE	CONNECTION
P15KFM***	P15Y015	G 1"F x G 1/2"M
	P15Y016	G 1"F x G 3/4"M
	P15Y017	G 1"F x G 1"M
P15KFF***	P15FY003	G 1"F x Rp 1/2"
	P15FY004	G 1"F x Rp 3/4"
	P15FY005	G 1"F x Rp 1"
P15KEFM***	P15EY014	G 1"F x G 3/4"M
	P15EY024	G 1"F x B.18

* Only for R280KCY000/001/002/100/101/102 codes.

** Only for R280KCY003/103 codes.

*** For all codes.



R280KL

Fan coils valves kit, "Standard" version

Preassembled compact kit, left-connections version, combining the components required for balancing, control, flushing and commissioning of HVAC terminal units (fan coils, chilled beams, etc.) with the main distribution network. The kit consists of a double ball diverting valve for by-pass and maintenance of the unit, a Y-filter, a pressure independent control valve (PICV), a drain cock and two pressure ports to measure the flow rate. Thanks to the special double ball diverting valve it is possible to clean the filter and operate on the unit with no need to drain the entire system. The kit is quick to install thanks to the use of only four connections which also prevent possible errors.

TECHNICAL DATA

- Working temperature range: 5÷110 °C
- Max. working pressure: 25 bar
- Working differential pressure range: 25÷400 kPa or 25÷800 kPa depending on the installed actuator.
- Actuator connection: M30 x 1,5 mm
- Main components: EN 12165 CW602N (DZR) brass

WORKING FLOW RATE RANGE

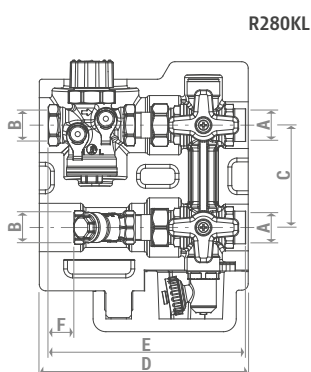
- R280KLY000: 32÷520 l/h (single setting scale)
- R280KLY001: 150÷380 l/h (LF); 180÷630 l/h (HF)
- R280KLY002: 290÷1000 l/h (LF); 860÷1500 l/h (HF)
- R280KLY003: 600÷3500



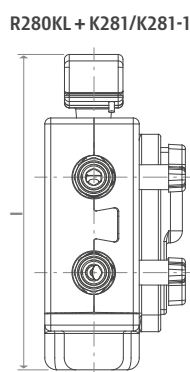
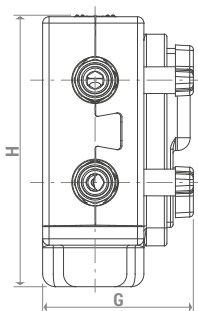
VIEW OF INTERNAL COMPONENTS



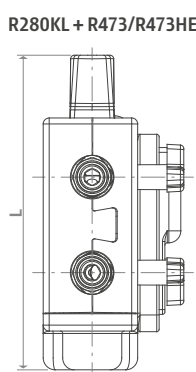
R280KL WITH INSULATION AND ACTUATOR ASSEMBLED



R280KL



R280KL + K281/K281-1



R280KL + R473/R473HE

PRODUCT CODE	CONNECTIONS A x B	DN	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	L [mm]
R280KLY000	G 1/2" F x G 1/2" F	15	80	163	154	20	118	212	264	264
R280KLY001	G 1/2" F x G 1/2" F									
R280KLY002	G 3/4" F x G 3/4" F	20			149	11				
R280KLY003	G 1" F x G 1" F	25	100	225	210	20	140	265	330	330



Its pressure independent control valve (PICV) enables the regulation and maintenance of a constant flow rate in the terminal unit when the differential pressure of the main circuit varies. The terminal unit can also be isolated and the flow can be bypassed through the double ball diverting valve. The water flow entering the terminal unit, which also runs through the PICV, is filtered by the Y-filter. The drain cock drains the water during maintenance and flushing operations.

MAIN TECHNICAL DATA

- Fluids: water, glycol-based solutions (max. 50% of glycol)
- Working temperature range: 5÷110 °C
- Ambient temperature: 1÷50 °C
- Max. working pressure: 25 bar
- Working flow rate range (based on PICV setting)
- Max. differential pressure at PICV ends
- Filtering capacity: 500 µm
- Actuator connection: M30 x 1,5 mm

MATERIALS

- Main components: EN 12165 CW602N (DZR) brass
- Diverting valve handles: plastic PA66-GF30
- Ball valve gaskets: PTFE
- Gaskets of other components: EPDM
- Filter mesh: AISI 304 stainless steel
- Insulation: expanded EPP (density 60 g/l; thermal conductivity 0,039 W/m K)

PRODUCT CODE	CENTER DISTANCE SUPPLY-RETURN [mm]	KIT Kv IN BY-PASS	WORKING FLOW RATE RANGE [l/h]		WORKING DIFFERENTIAL PRESSURE RANGE [kPa]		ACTUATORS FOR PICV (accessories)
			L (LOW)	H (HIGH)	WITH ACTUATOR R473/R473HE	WITH K281/K281-1 OR NO ACTUATOR	
R280KLY000			35÷520 (single range)		25÷400	25÷800	
R280KLY001	80	3,1	150÷380	180÷630	25÷400	25÷800	K281, K281-1, R473, R473HE
R280KLY002			290÷1000	860÷1500	25÷400	25÷800	
R280KLY003	100	4,4	600÷3500		25÷400	25÷400	K281, K281-1, R473HE

ACCESSORIES

- **K281X022 (K281)**: ON/OFF actuator, 24 V
- **K281X062 (K281-1)**: 0-10 V actuator for flow rate proportional linear control, 24 V
- **K281X063 (K281-1)**: 0-10 V actuator for flow rate proportional linear control, 24 V, with fail safe
- **R473X221 (R473)**: 230 V thermo-electric actuator, normally closed, 2-conductor wire, IP40, 2,5 W
- **R473X222 (R473)**: 24 V thermo-electric actuator, normally closed, 2-conductor wire, IP40, 2,5 W
- **R473HEX001 (R473HE)**: 230 V thermo-electric actuator, normally closed, 2-conductor wire, IP54, 1 W
- **R453FY002**: M30 x 1,5 mm adapter ring for installation of R473/R473M thermo-electric actuators
- **R225EY001**: electronic differential pressure gauge and flow rate calculator, including M10 x 1 mm needle probes
- **P74M-1**: neodymium magnet with stainless steel coating for installation inside the Y-filter

SPARE PARTS

- **R73PY010**: key for PICV flow rate presetting
- **P206Y001**: pair of pressure ports
- **P22V**: replacement handwheels with M30 x 1.5 mm connection, in grey, red or blue color, for PICV

R225E

Differential pressure gauge

Differential pressure gauge to measure the differential pressure and flow rate calculation for balancing plumbing systems. Battery powered (2 x AA). Equipped with two needle probes M10 x 1 mm. Measuring range of differential pressure: -10÷20 bar. Fluid temperature: -5÷90 °C.

MAIN TECHNICAL DATA

- Pressure sensor: piezoresistive true differential
- Pressure range: 20 bar
- Maximum overpressure: 20 bar positive side / 10 bar negative side
- Non linearity and hysteresis error: 0,15 % of pressure range
- Temperature Error: 1.5 % over ambient and medium temperature
- Fluid temperature range: -5÷90 °C
- Ambient temperature range: -5÷50 °C
- Stockage temperature range: -5÷50 °C
- Connections: M10 x 1 mm
- Batteries: 2 x AA NiMH rechargeable batteries
- Power consumption: 55 mA max
- Display: Backlight 128 x 64 pixel monochromatic
- Keyboard: 3 keys
- Flow rate units: 11, including US units
- Kv range: 0÷99999 with 0.1 step
- Dimensions: 94 x 218 x 40 mm
- Weight: 380 g including batteries
- Electrical protection: IP65
- Calibration validity: 12 months



R206AFL

Pressure independent control valve PICV, flanged connections

Pressure independent control valve (PICV) with flanged connections.

It is suitable to be integrated in an automated building management system. By compensating for pressure variations and maintaining constant system performance during load changes, it assures an improvement of environmental comfort as well as a pumping cost reduction.

The valve can be equipped with an actuator for proportional or 3-points control; manually operated version can be supplied as well.

PERFORMANCE

- Fluids: water, water-glycol mix (max. 50 % glycol)
- Working temperature range: -10÷120 °C
- Max. static pressure: 16 bar
- Max. differential pressure: 4 bar

MATERIAL

- Body: cast iron
- Seal: EPDM

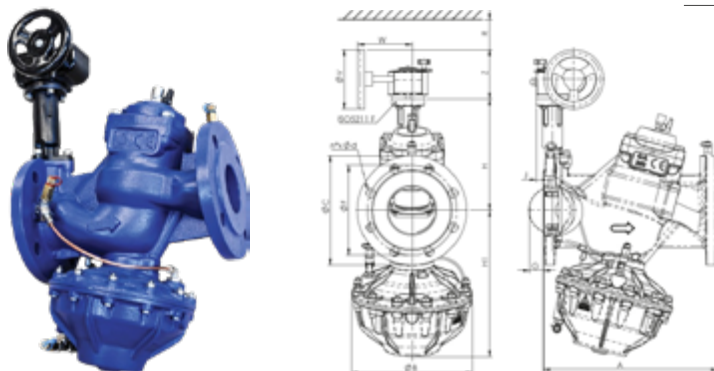
WORKING CONDITIONS WITH WATER

- Working temperature range: -10÷120 °C
- Max. static pressure: 16 bar
- Max. differential pressure: 4 bar

ACCESSORIES

- Proportional actuator 2..10 V, for R206AFL PICVs

PRODUCT CODE	POWER SUPPLY
K274Y301	24 Vac/dc
K274Y302	24 Vac/dc



PRODUCT CODE	DN	Kvs	A [mm]	H [mm]	H1 [mm]	B [mm]	J [mm]	G [mm]	C [mm]	F [mm]	n x D [mm]	W [mm]	Z [mm]	V [mm]	R [mm]	FLANGE	WEIGHT [kg]
R206AY306	65	66,3	290	205	217	200	15	17	185	145	4 x 18	98	100	120	>100	PN10/16	23,0
R206AY308	80	96,6	310	214	281	242	15	25	200	160	8 x 18	99	100	120	>100	PN10/16	29,5
R206AY310	100	278	350	224	295	242	15	30	220	180	8 x 18	101	100	120	>100	PN10/16	35
R206AY312	125	332,1	400	272	317	242	28	46	250	210	8 x 18	103	100	120	>100	PN10/16	47,8
R206AY315	150	427,5	480	301	341	242	28	56	285	240	8 x 22	105	100	120	>100	PN10/16	76,8

PRODUCT CODE	REGULATOR POSITION										
	1,5	2	3	4	5	6	7	8	9	10	
	15 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	
R206AY306	4,4	6,2	8,6	11,6	14,9	17,4	20,2	22,3	24	26	Flow rate [m³/h]
	30	30	30	30	30	30	50	50	50	50	ΔP min [kPa]
R206AY308	4,7	7,6	11,4	15,2	19	23	26,6	30,4	32,7	36	Flow rate [m³/h]
	30	30	30	30	30	30	30	50	50	50	ΔP min [kPa]
R206AY310	11,4	15,8	23,2	30,7	38,2	47,9	58,3	68,3	75,2	82,5	Flow rate [m³/h]
	30	30	30	30	30	30	50	50	50	50	ΔP min [kPa]
R206AY312	13,1	19,9	31,7	43,3	55	70,6	83,3	100	112,5	125	Flow rate [m³/h]
	30	30	30	30	30	50	50	50	50	50	ΔP min [kPa]
R206AY315	19	26,8	44,7	63,9	78,6	94,2	113,3	132,1	148,9	160	Flow rate [m³/h]
	30	30	30	30	30	30	50	50	50	50	ΔP min [kPa]



R206A

Pressure independent control valve (PICV)

The pressure independent control valve R206A (PICV), combines an automatic control of the flow rate with an optional control of the valve through an actuator.

The valve is able to regulate the flow rate and keep it constant as the differential pressure conditions vary within the hydraulic circuit in which it is installed.

The valve can be used with two operating modes:

- pressure independent flow rate control (with K281 actuator installed) in accordance with the thermal load requirements of the circuit section to be controlled;
- limitation of the flow rate and/or shut-off of the fluid (without actuator or with R473/R473HE thermo-electric actuator installed).

Flow rate adjustment is guaranteed within the declared differential pressure range, with a maintained error of $\pm 10\%$ on the controlled flow rate value. The valve is equipped with pressure outlets for measuring the differential pressure in combination with a differential pressure gauge and its own probes.

TECHNICAL DATA

- Fluids: water, glycol-based solutions (max. 50 % glycol)
- Working temperature range: 5÷120 °C
- Room Working temperature range: 1÷50 °C
- Max. working pressure: 25 bar (2,5 MPa)
- Max. differential pressure: 8 bar
(4 bar with R473/R473HE thermo-electric actuators and for DN25, DN50 valves)
- Regulation accuracy: $\pm 10\%$ regulated value
- Leakage rate (according to ISO 5208): class A, no leakage
- Connections for pressure outlets: G 1/4" F
- Actuator connection: M30 x 1,5 mm

MATERIAL

- Body for DN15, DN20, DN25 valves: brass "DZR" CW602N - UNI EN 12165
- Body for DN50 valves: brass "DZR" CB/CC770S - UNI EN 1982
- Bonnet and all components in contact with the water not indicated: brass "DZR" CW602N - UNI EN 12165
- Tail pieces: brass CW617N - UNI EN 12165
- Regulator stem and piston: stainless steel AISI 303
- Springs: stainless steel AISI 302
- Membrane, stopper and O-Ring: EPDM

WORKING FLOW RATE RANGE

- **R206AY113:** 32÷520 L/H (SINGLE SETTING SCALE)
- **R206AY103:** 150÷380 L/H (LF); 180÷630 L/H (HF)
- **R206AY104:** 320÷910 L/H (LF); 700÷1175 L/H (HF)
- **R206AY105:** 290÷1000 L/H (LF); 860÷1500 L/H (HF)
- **R206AY125:** 600÷3500 L/H (SINGLE SETTING SCALE)
- **R206AY106:** 800÷4700 L/H (SINGLE SETTING SCALE)
- **R206AY107:** 3000÷14000 L/H (SINGLE SETTING SCALE)
- **R206AY108:** 3000÷14000 L/H (SINGLE SETTING SCALE)
- **R206AMY103:** 150÷380 L/H (LF); 180÷630 L/H (HF)
- **R206AMY104:** 320÷910 L/H (LF); 700÷1175 L/H (HF)
- **R206AMY114:** 290÷1000 L/H (LF); 860÷1500 L/H (HF)

ACCESSORIES

- Thermo-electric actuator, normally closed, Clip Clap connection

PRODUCT CODE	POWER SUPPLY
R473X221	230 Vac
R473X222	24 Vac/dc



- Thermo-electric actuator, normally closed, M30 x 1,5 mm connection

PRODUCT CODE	POWER SUPPLY
R473HEX001	230 Vac



- Actuator for R298, R298N mixing valves with M30 x 1,5 mm connection.

PRODUCT CODE	POWER SUPPLY
K281X062	24 Vac/dc
K281X063	24 Vac/dc
K281X082	24 Vac/dc



DN50



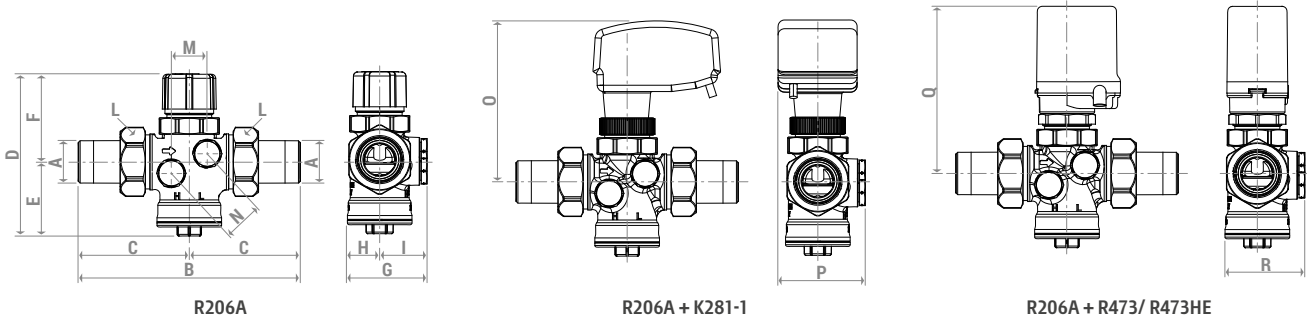
DN25



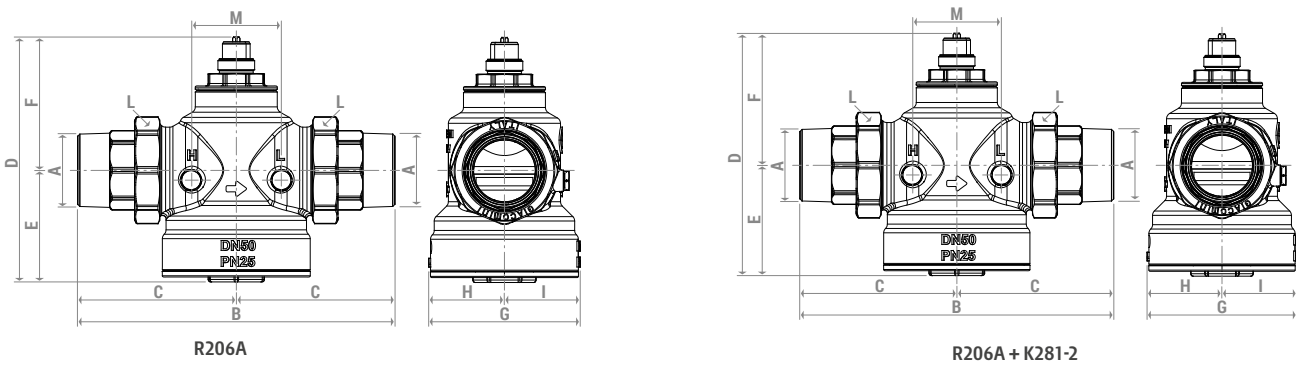
DN15/20



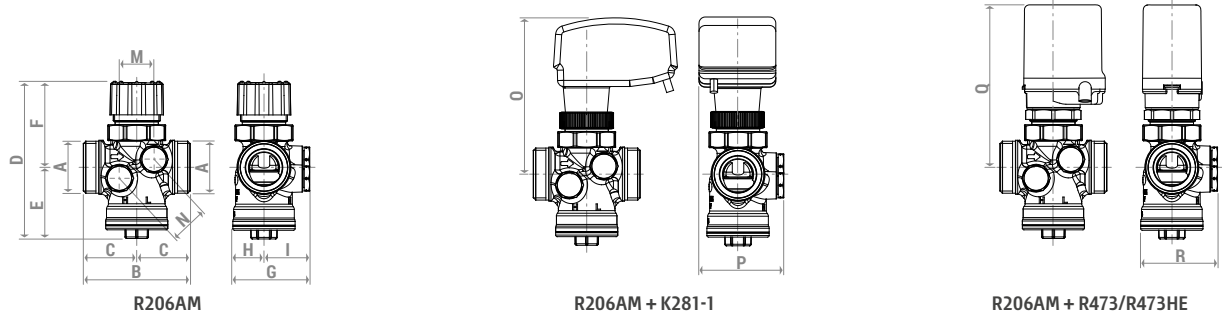
Versions DN15, DN20, DN25 with tail pieces



Versions DN50 with tail pieces

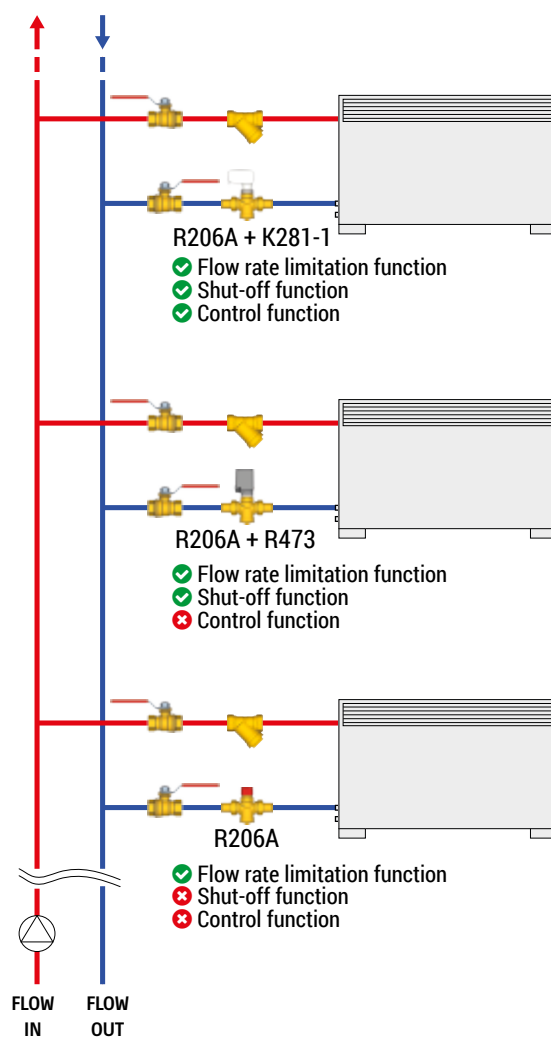
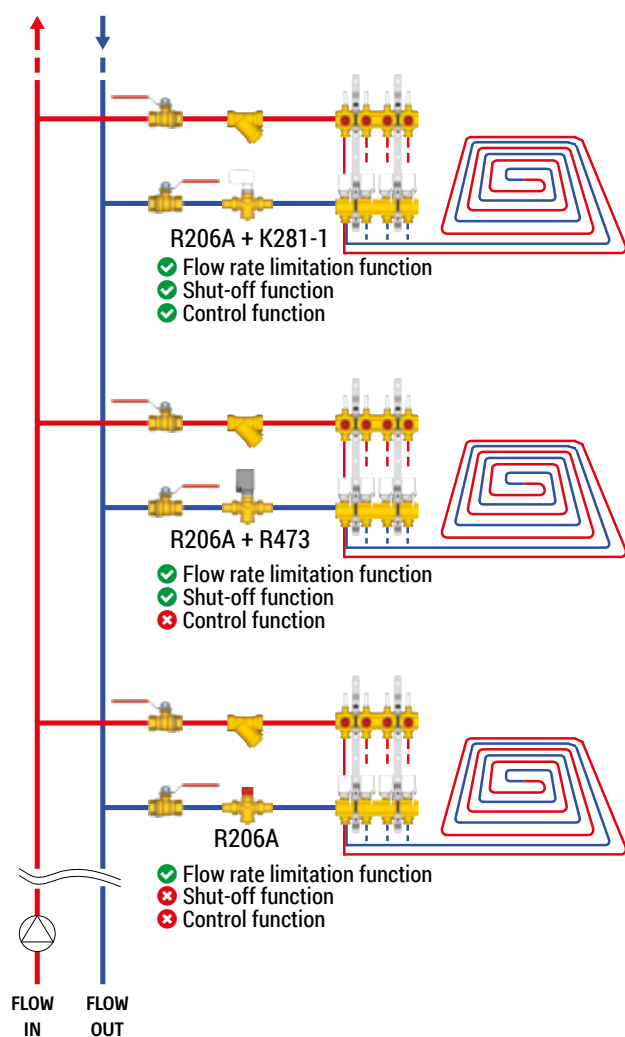


Versions DN15, DN20 without tail pieces



PRODUCT CODE	DN	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	L [mm]	M [mm]	N [mm]	O [mm]	P [mm]	Q [mm]	G [mm]
R206AY113	15	G 1/2"M	128	64	99	45	54	49	20	29	wr.30	22	25	101	54	103	49
R206AY103	15	G 1/2"M	128	64	99	45	54	49	20	29	wr.30	22	25	101	54	103	49
R206AY104	20	G 3/4"M	136	68	99	45	54	49	20	29	wr.38	22	25	101	54	103	49
R206AY105	20	G 1"M	142	71	99	45	54	49	20	29	wr.38	22	25	101	54	103	49
R206AY125	25	G 1"M	162	81	111	52	59	65	30	35	wr.53	27	31	123	65	N/A	65
R206AY106	25	G 1-1/4"M	165	83	111	52	59	65	30	35	wr.53	27	31	123	65	N/A	65
R206AY107	50	G 1-1/2"M	258	129	199	91	108	120	60	60	wr.82	73	N/A	280	120	N/A	n.d.
R206AY108	50	G 2"M	258	129	199	91	108	120	60	60	wr.82	73	N/A	280	120	N/A	n.d.
R206AMY103	15	G 3/4"M	68	34	99	45	54	49	20	29	-	22	25	101	54	103	49
R206AMY104	20	G 1"M	68	34	99	45	54	49	20	29	-	22	25	101	54	103	49
R206AMY114	20	G 1"M	68	34	99	45	54	49	20	29	-	22	25	101	54	103	49





PRODUCT CODE	CONNECTIONS	WORKING FLOW RATE RANGE [l/h]		WORKING DIFFERENTIAL PRESSURE RANGE [kPa]	
		L (LOW)	H (HIGH)	WITH ACTUATOR R473/R473HE	WITH K281-1/K281-2 OR NO ACTUATOR
R206AY113	G 1/2”M with tail pieces	35÷520		25÷400	25÷800
R206AY103		150÷380	180÷630		
R206AY104		320÷910	700÷1175		
R206AY105	G 1”M with tail pieces	290÷1000	860÷1500	N/A	25÷400
R206AY125		600÷3500			
R206AY106		800÷4700			
R206AY107	G 1-1/2”M with tail pieces	3000÷14000		50÷400	
R206AY108	G 2”M with tail pieces				
R206AMY103	G 3/4”M	150÷380	180÷630	25÷400	25÷800
R206AMY104	G 1”M	320÷910	700÷1175		
R206AMY114		290÷1000	860÷1500		



R206B

Static balancing valve

Balancing is essential to saving the energy used in hydronic systems.

The R206B static balancing valves allow a gradual and precise regulation of the flow rate.

The R206B valves have a flowmeter with calibrated orifice (Venturi principle), that is with fixed Kv.

Through the pressure outlets (depending on the versions they are provided with or they are optional accessory) and a differential manometer, it allows to carefully measure the flow rate actually circulating.

TECHNICAL DATA

- Fluids: water, glycol-based solutions (max. 50 % glycol)
- Working temperature range: 5÷110 °C
- Max. working pressure: 25 bar
- Connections for pressure outlets: G 1/4"F
- Connection for drain: G 1/4"F
- Probe holder: for needle Ø 3 mm and lenght 30÷40 mm
- Closing function
- Presetting possibility
- Venturi flow meter for flow rate measurement through pressure outlets

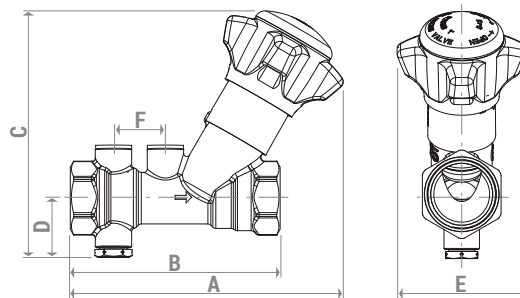
MATERIALS

- Body: dezincification resistant brass DZR (EN 12165 - CW602N)
- Handwheel: ABS, white color



CONNECTIONS	Kv (VENTURI FLOW METER)	Kv (COMPLETE VALVE)	FLOW RATE [l/h]		
			0,5 kPa *	3 kPa *	10 kPa **
G 1/2"F	4	2,7	280	690	860
G 3/4"F	7,5	5,5	530	1300	1740
G 1"F	11	7	780	1900	2220
G 1-1/4"F	13,5	9,5	950	2340	3000
G 1-1/2"F	24	18,5	1700	4160	5850
G 2"F	31	25,5	2190	5370	8065

Flow rate values related to differential pressure on Venturi flowmeter (*) or for the complete valve (**).



PRODUCT CODE		DN	CONNECTIONS	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
WITH PROBE HOLDER	WITHOUT PROBE HOLDER								
R206BY003	R206BY013	15	G 1/2"F	131	95	119	25	64	25
R206BY004	R206BY014	20	G 3/4"F	131	101	118	28	64	25
R206BY005	R206BY015	25	G 1"F	131	110	122	32	64	25
R206BY006	R206BY016	32	G 1-1/4"F	137	120	129	35	64	25
R206BY007	R206BY017	40	G 1-1/2"F	163	140	166	39	64	25
R206BY008	R206BY018	50	G 2"F	169	154	172	45	70	25



R206C

Differential pressure controller

Balancing valve R206C is a differential pressure controller for constant differential pressure of part of the hydraulic circuit at any flow rate.

The nominal differential pressure can be controlled on a constant basis from 5 to 30 kPa in "L" mode (Low) or from 25 to 60 kPa in "H" mode (High); nominal set point preset on minimum value.

The adjustment value is specified in the diagram.

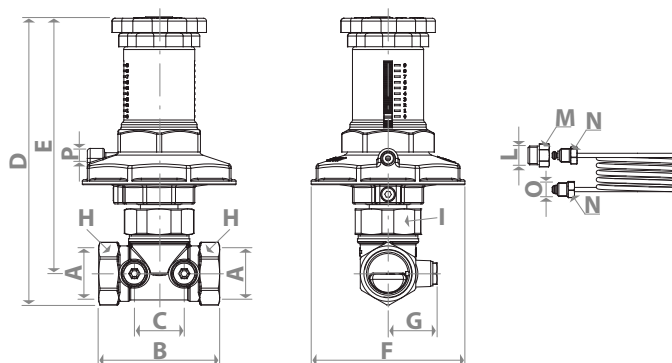
The valve comes with a 1 m capillary tube made of copper for connection to the delivery pipe, which is typically static balancing valve (R206B). Valve R206C is recommended for balancing of variable flow rate systems, such as systems with thermostatic valves or manifolds controlling multiple zones of the house.

TECHNICAL DATA

- Fluids: water, glycol-based solutions (max. 50 % of glycol)
- Working temperature range: 5÷110 °C (-20÷110 °C with glycol antifreeze)
- Max. working pressure: 16 bar
- Max. differential pressure: 6 bar
- Setting of differential pressure range:
"L" setting = 5÷30 kPa; "H" setting = 25÷60 kPa
- Connections for pressure outlets: G 1/4"F
- Connections for copper capillary: G 1/8"F

MATERIALS

- Body and components: brass EN12165 - CW602N (DZR)
- Other components not in contact with water: brass EN12165 - CW617N
- Membrane: EPDM with nylon reinforcement
- O-Ring: EPDM
- Springs: galvanized steel
- Plastic components: PA 6 GF15 and POM
- Capillary tube: copper



PRODUCT CODE	DN	Kv	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	L [mm]	M [mm]	N [mm]	O [mm]	P [mm]
R206CY103	15	2,24	Rp 1/2"F	65	26	185	170	108	30	hex.26	hex.37					
R206CY104	20	3,49	Rp 3/4"F	75	26	188	170	108	30	hex.32	hex.37					
R206CY105	25	5,92	Rp 1"F	85	35	202	181	108	34,5	hex.39	hex.46					
R206CY106	32	6,95	Rp 1-1/4"F	95	35	208	181	108	37,5	hex.48	hex.46	G 1/4"M	hex.14	hex.11	G 1/8"M	G 1/8"F
R206CY107	40	11,72	Rp 1-1/2"F	100	42	220,00	192	108	41,5	oct.54	oct.64					
R206CY138	50	12,97	Rp 2"F	130	46	227,00	192	108	47,5	oct.67	oct.64					



R206C-1

Compact differential pressure controller

Balancing valve R206C-1 is a differential pressure controller for constant differential pressure of part of the hydraulic circuit at any flow rate. Setting of nominal differential pressure ranges between 5÷30 kPa ("L" - Low) or 25÷60 kPa ("H" - High) depending on the versions.

Nominal set point preset on minimum value. The setting value must comply with the presetting diagrams. The valve comes with a 1 m capillary tube made of copper for connection to the delivery pipe, which is typically static balancing valve (R206B).

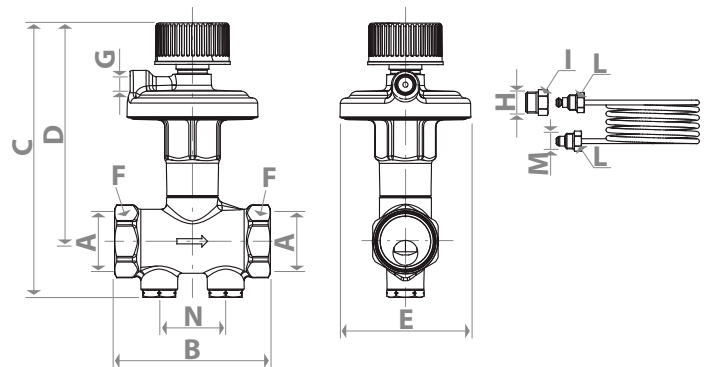
Valve R206C-1 is recommended for balancing of variable flow rate systems, such as systems with thermostatic valves or manifolds controlling multiple zones of the house.

TECHNICAL DATA

- Fluids: water, glycol-based solutions (max. 50 % of glycol)
- Working temperature range: 5÷110 °C (-20÷110 °C with glycol antifreeze)
- Max. working pressure: 25 bar
- Max. differential pressure: 2 bar
- Max. differential pressure on membrane (with capillary tube disconnected): 5 bar
- Differential pressure range: "L" = 5÷30 kPa - "H" = 25÷60 kPa
- Connections for pressure outlets: G 1/4"F
- Connection for capillary tube: G 1/8"F

MATERIALS

- Body: anti-dezincification brass (DZR) EN12165 - CW602N
- Other components: brass EN12165 - CW617N
- Membrane: EPDM co-molded with AISI 304 stainless steel
- O-Ring: EPDM
- Spring: AISI 302 stainless steel
- Knob: PA 66 GF20
- Capillary tube: copper



PRODUCT CODE	DN	Kv	kPa	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	L [mm]	M [mm]	N [mm]
R206CY223	15	1,55	"L" 5÷30	Rp 1/2"	65	125	103	63	25						25
R206CY233			"H" 25÷60												
R206CY224	20	2,40	"L" 5÷30	Rp 3/4"	75	132	105	63	32	G 1/8"F	G 1/4"M	14	11	G 1/8"M	32
R206CY234			"H" 25÷60												
R206CY225	25	4,15	"L" 5÷30	Rp 1"	85	142	112	63	40						39
R206CY235			"H" 25÷60												



R206BFL

Static balancing valve, flanged connections

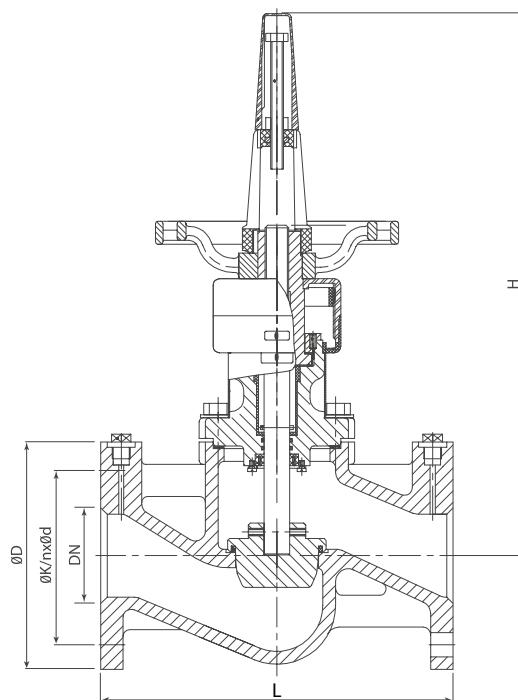
Cast iron static balancing valve. With stainless steel disc, flanged connections and 1/4"F plug for differential pressure measure.

MAX. WORKING CONDITIONS WITH WATER

- Max. working temperature: -10÷120 °C
- Nominal pressure: 16 bar
- Max. working pressure (continuous): 11 bar

MATERIALS

- Body: cast iron (GG 25)
- Disc: stainless steel
- Disc sealing: PTFE
- Stem: stainless steel
- Handwheel: carbon steel
- P/T plugs: brass
- Nut: carbon steel



PRODUCT CODE	DN	Kv	L [mm]	H [mm]	ØD [mm]	ØK [mm]	n x Ød [mm]
R206BY205	50	48,5	230	280	160	125	4 x 18
R206BY206	65	74,4	290	365	185	145	4 x 18
R206BY208	80	111	310	395	200	160	8 x 18
R206BY210	100	165	350	430	220	180	8 x 18
R206BY212	125	242	400	495	250	210	8 x 18
R206BY215	150	372	480	530	285	240	8 x 22
R206BY220	200	704	600	665	340	295	8 x 22
R206BY225	250	812	730	600	405	355	12 x 22
R206BY230	300	1380	850	685	460	410	12 x 26



R206CFL

Differential pressure control valve DPCV, flanged connections

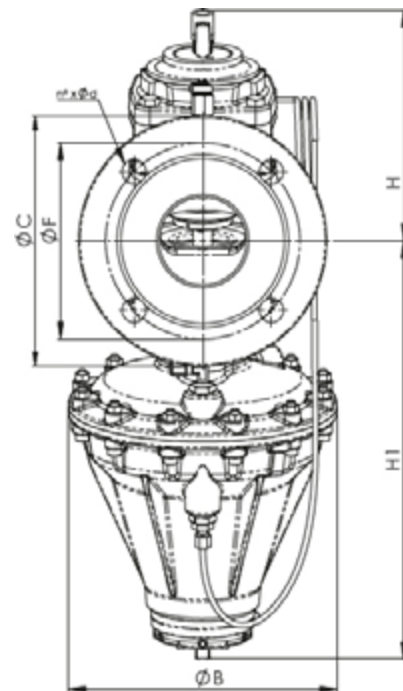
Differential pressure control valve DPCV with flanged connections. The valves balance and control the differential pressure automatically and proportionally. The valve balances the flow in the main network or in the single risers and branches of a HVAC system, controls and keeps the differential pressure over the load at a stable value, reducing the risk of noisiness and wear of the thermostatic control valves. The setting range of the differential pressure delivered is comprised between 0,2÷1,0 and 0,8÷1,6 bar for DN65-100 and between 0,2 and 0,8 bar for DN125-150.

PERFORMANCE

- Fluids: water, water-glycol mix (max. 50 % glycol)
- Max. working temperature: -10÷120 °C
- Max. working pressure: 16 bar
- Controllable diff. pressure range for DN65-100: 20÷100 kPa or 80÷160 kPa
- Controllable diff. pressure range for DN125-150: 20÷100 kPa

MATERIAL

- Body: cast iron
- Seal: EPDM



PRODUCT CODE	DN	Kv	WEIGHT [kg]	LENGTH [mm]	H [mm]	H1 [mm]	B [mm]	C [mm]	F [mm]	n x D [mm]
R206CY306	65	44,5	21,6	290	170	310	200	185	145	4 x 18
R206CY316		52,0								
R206CY308	80	78,3	28,1	310	182	400	242	200	160	8 x 18
R206CY318		83,7								
R206CY310	100	104,6	33,6	350	200	414	242	220	180	8 x 18
R206CY320		106,7								
R206CY312	125	152,3	46,4	400	275	436	242	250	210	8 x 18
R206CY315	150	204,0	75,4	480	300	460	242	285	240	8 x 22





HVAC

R850

Ball valve, female-female connections

Ball valve for water for HVAC systems, full port.

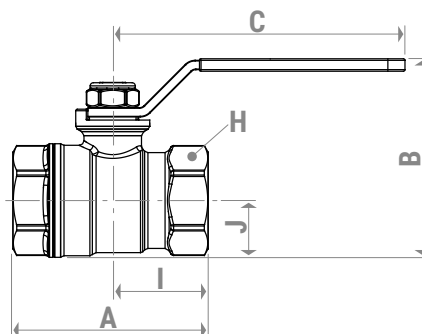
MAIN FEATURES AND MATERIALS

- Suitable for water for HVAC systems, not dangerous gas and liquid hydrocarbons*
- Full port for 1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"
- Standard port for 2-1/2", 3", 4"
- Valve made of UNI EN 12165 CW617N chrome plated brass
- Stem with double O-Ring
- Nut with anti-corrosion coating, with guarantee seal and hologram
- Steel lever handle with anti-corrosion treatment and red PVC coating

FIELD OF APPLICATIONS

- Min. working temperature: -20 °C with 50 % glycol-based solutions
- Max. working temperature with dry saturated steam: 185 °C with 1,05 MPa (10,5 bar)
- Max. working pressure at 20 °C with water and not dangerous gas: 3,5 MPa (35 bar) for 1/4", 3/8", 1/2", 3/4"
- 2,8 MPa (28 bar) for 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4"
- Working temperature range with liquid hydrocarbons*: -20÷60 °C
- Max. working pressure at 20 °C with liquid hydrocarbons*: 1,2 MPa (12 bar)

* Please consult Giacomini technical support, to check the compatibility of the product with the specific hydrocarbon.



PRODUCT CODE	DN	CONNECTIONS	Kv	A [mm]	I [mm]	B [mm]	J [mm]	C [mm]	H [mm]
R850X021	8	G 1/4"F x G 1/4"F	6,6	43	21	36	10	43	wr.17
R850X022	10	G 3/8"F x G 3/8"F	6,7	46	23	45	13	77	wr.20
R850X023	15	G 1/2"F x G 1/2"F	12,7	53	27	51	16	77	wr.25
R850X024	20	G 3/4"F x G 3/4"F	24,6	60	30	67	20	95	wr.31
R850X025	25	G 1"F x G 1"F	48,5	74	37	76	25	95	wr.38
R850X026	32	G 1-1/4"F x G 1-1/4"F	98,0	84	42	85	29	95	wr.47
R850X027	40	G 1-1/2"F x G 1-1/2"F	140	95	47	104	35	137	wr.54
R850X028	50	G 2"F x G 2"F	211	109	54	120	43	137	wr.66
R850X029	58	G 2-1/2"F x G 2-1/2"F	240	146	73	154	52	173	wr.82
R850X030	68	G 3"F x G 3"F	269	160	80	169	60	173	wr.98
R850X031	90	G 4"F x G 4"F	461	207	104	207	77	187	wr.122



R851

Ball valve, female-female connections

Ball valve for water for HVAC systems, full port.

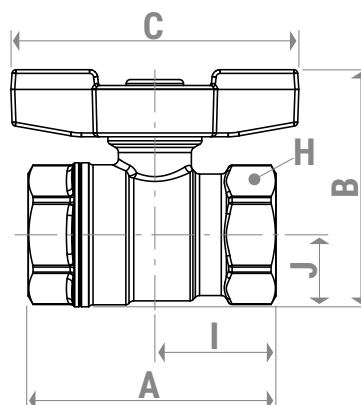
MAIN FEATURES AND MATERIALS

- Suitable for water for HVAC systems, not dangerous gas and liquid hydrocarbons*
- Full port
- Valve made of UNI EN 12165 CW617N chrome plated brass
- Stem with double O-Ring
- Nut with anti-corrosion coating, with guarantee seal and hologram
- Aluminium T-handle, red or blue painted

FIELD OF APPLICATIONS

- Min. working temperature: -20 °C with 50 % glycol-based solutions
- Max. working temperature with dry saturated steam: 185 °C with 1,05 MPa (10,5 bar)
- Max. working pressure at 20 °C with water and not dangerous gas: 3,5 MPa (35 bar) for 1/4", 3/8", 1/2", 3/4" 2,8 MPa (28 bar) for 1", 1-1/4"
- Working temperature range with liquid hydrocarbons*: -20÷60 °C
- Max. working pressure at 20 °C with liquid hydrocarbons*: 1,2 MPa (12 bar)

* Please consult Giacomini technical support, to check the compatibility of the product with the specific hydrocarbon.



PRODUCT CODE	DN	CONNECTIONS	Kv	A [mm]	I [mm]	B [mm]	J [mm]	C [mm]	H [mm]
R851X021	8	G 1/4"F x G 1/4"F	6,6	43	21	35	10	40	wr.17
R851X022	10	G 3/8"F x G 3/8"F	6,7	46	23	48	13	63	wr.20
R851X023	15	G 1/2"F x G 1/2"F	12,7	53	27	54	16	63	wr.25
R851X024	20	G 3/4"F x G 3/4"F	24,6	60	30	63	20	73	wr.31
R851X025	25	G 1"F x G 1"F	48,5	74	37	72	25	73	wr.38
R851X026	32	G 1-1/4"F x G 1-1/4"F	98	84	42	82	29	73	wr.47



R854

Ball valve, female-male connections

Ball valve for water for HVAC systems, full port.

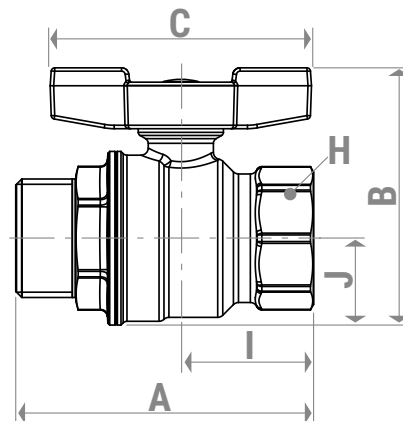
MAIN FEATURES AND MATERIALS

- Suitable for water for HVAC systems, not dangerous gas and liquid hydrocarbons*
- Full port
- Valve made of UNI EN 12165 CW617N chrome plated brass
- Stem with double O-Ring
- Nut with anti-corrosion coating, with guarantee seal and hologram
- Aluminium T-handle, red or blue painted

FIELD OF APPLICATIONS

- Min. working temperature: -20 °C with 50 % glycol-based solutions
- Max. working temperature with dry saturated steam: 185 °C with 1,05 MPa (10,5 bar)
- Max. working pressure at 20 °C with water and not dangerous gas: 3,5 MPa (35 bar) for 1/2", 3/4" 2,8 MPa (28 bar) for 1", 1-1/4"
- Working temperature range with liquid hydrocarbons*: -20÷60 °C
- Max. working pressure at 20 °C with liquid hydrocarbons*: 1,2 MPa (12 bar)

* Please consult Giacomini technical support, to check the compatibility of the product with the specific hydrocarbon.



PRODUCT CODE	DN	CONNECTIONS	Kv	A [mm]	I [mm]	B [mm]	J [mm]	C [mm]	H [mm]
R854X023	15	G 1/2"F x G 1/2"M	12,7	64	27	54	16	63	wr.25
R854X024	20	G 3/4"F x 3/4"M	24,6	72	30	64	20	73	wr.31
R854X025	25	G 1"F x G 1"M	48,5	83	37	72	24	73	wr.38
R854X026	32	G 1-1/4"F x G 1-1/4"M	98	97	42	82	29	73	wr.47



R850U

Ball valve, female-female connections

Valve for water for HVAC systems, dangerous and not dangerous gas, liquid hydrocarbons, full port.

MAIN FEATURES AND MATERIALS

- Suitable for water for HVAC systems, dangerous and not dangerous gas, liquid hydrocarbons*
- Full port
- Valve made of UNI EN 12165 CW617N
- Stem with double O-Ring
- Steel lever handle with anti-corrosion treatment and PVC coating
- Nut with anti-corrosion coating, with guarantee seal and hologram

* Please consult Giacomini technical support, to check the compatibility of the product with the specific hydrocarbon.

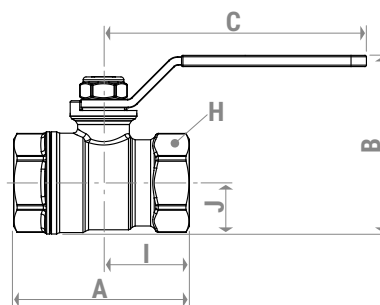
FIELD OF APPLICATIONS

USE WITH WATER AND NOT DANGEROUS GAS

- Min. working temperature: -20 °C with 50 % glycol-based solutions
- Max. working temperature with dry saturated steam: 185 °C with 1,05 MPa (10,5 bar)
- Max. work. pressure at 20 °C with water and not dangerous gas: 3,5 MPa (35 bar) for 1/4", 3/8", 1/2", 3/4" 2,8 MPa (28 bar) for 1", 1-1/4", 1-1/2", 2"

USE WITH GAS AND LIQUID HYDROCARBONS

- Working temperature range: -20÷60 °C
- Max. working pressure at 20 °C with liquid hydrocarbons*: 1,2 MPa (12 bar)
- Max. operating pressure (MOP) with gas: 0,5 MPa (5 bar)



PRODUCT CODE	DN	CONNECTIONS	Kv	A [mm]	I [mm]	B [mm]	J [mm]	C [mm]	H [mm]
R850UY001	8	1/4"NPT-F x 1/4"NPT-F	6,6	43	21	36	10	43	17
R850UY002	10	3/8"NPT-F x 3/8"NPT-F	6,7	46	23	45	13	77	20
R850UY003	15	1/2"NPT-F x 1/2"NPT-F	12,7	53	27	51	16	77	25
R850UY004	20	3/4"NPT-F x 3/4"NPT-F	24,6	60	30	67	20	95	31
R850UY005	25	1"NPT-F x 1"NPT-F	48,5	74	37	76	25	95	38
R850UY006	32	1-1/4"NPT-F x 1-1/4"NPT-F	98	84	42	85	29	95	47
R850UY007	40	1-1/2"NPT-F x 1-1/2"NPT-F	140	95	47	104	35	137	54
R850UY008	50	2"NPT-F x 2"NPT-F	211	109	54	120	43	137	66



A830

Ball valve, full port, DZR low lead

Ball valve, with female-female threaded connections. In compliance with UL 258:2025 and FM Class 1140 for fire protection applications with water. Made of DZR (dezincification resistant) low lead brass.

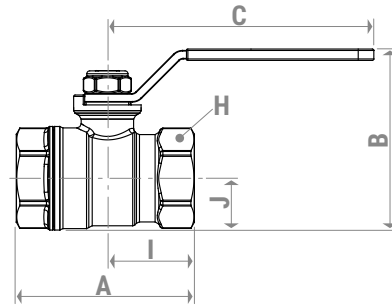
MAIN FEATURES AND MATERIALS

- Suitable for fire protection applications with water
- Full port
- Valve made of DZR UNI EN 12165 CW724R low lead brass
- Ball made of DZR UNI EN 12165 CW602N chrome plated brass
- Stem with double O-Ring
- Nut with anti-corrosion coating, with guarantee seal and hologram
- Steel lever handle with anti-corrosion treatment and red PVC coating

* Please consult Giacomini technical support, to check the compatibility of the product with the specific hydrocarbon.

FIELD OF APPLICATIONS

- Min. working temperature: 4 °C (areas exposed to low temperature shall be protected against freezing - NFPA13)
- Max. working pressure at 20 °C with water:
42 bar for 1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2"
21 bar for 2"



PRODUCT CODE	DN	CONNECTIONS	Kv	A [mm]	I [mm]	B [mm]	J [mm]	C [mm]	H [mm]
A830UY001	8	1/4"NPT-F x 1/4"NPT-F	6,6	43	21	36	10	43	wr.17
A830UY002	10	3/8"NPT-F x 3/8"NPT-F	6,7	46	23	45	13	77	wr.20
A830UY003	15	1/2"NPT-F x 1/2"NPT-F	12,7	53	27	51	16	77	wr.25
A830UY004	20	3/4"NPT-F x 3/4"NPT-F	24,6	60	30	67	20	95	wr.31
A830UY005	25	1"NPT-F x 1"NPT-F	48,5	74	37	76	25	95	wr.38
A830UY006	32	1-1/4"NPT-F x 1-1/4"NPT-F	98	84	42	85	29	95	wr.47
A830UY007	40	1-1/2"NPT-F x 1-1/2"NPT-F	140	95	47	104	35	137	wr.54
A830UY008	50	2"NPT-F x 2"NPT-F	211	109	54	120	43	137	wr.66
A830Y023	15	G 1/2"F x G 1/2"F	12,7	53	27	51	16	77	wr.25
A830Y024	20	G 3/4"F x G 3/4"F	24,6	60	30	67	20	95	wr.31
A830Y025	25	G 1"F x G 1"F	48,5	74	37	76	25	95	wr.38
A830Y026	32	G 1-1/4"F x G 1-1/4"F	98	84	42	85	29	95	wr.47
A830Y027	40	G 1-1/2"F x G 1-1/2"F	140	95	47	104	35	137	wr.54
A830Y028	50	G 2"F x G 2"F	211	109	54	120	43	137	wr.66



A730

Ball valve, full port, DZR

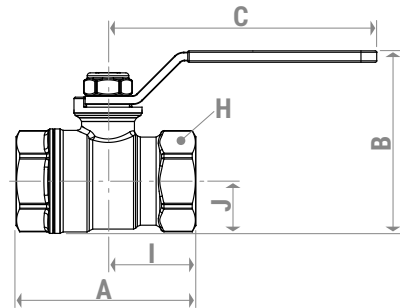
Ball valve, with female-female threaded connections. Full Port. In compliance with UL 258:2025 and FM Class 1140 for fire protection applications with water. Made of DZR brass (dezincification resistant)

MAIN FEATURES AND MATERIALS

- Suitable for fire protection applications with water
- Full port
- Valve made of DZR UNI EN 12165 CW602N nickel plated or brass finishing
- Ball made of DZR UNI EN 12165 CW602N chrome plated brass
- Stem with double O-Ring
- Nut with anti-corrosion coating, with guarantee seal and hologram
- Steel lever handle with anti-corrosion treatment and red PVC coating

FIELD OF APPLICATIONS

- Min. working temperature: 4 °C (areas exposed to low temperature shall be protected against freezing - NFPA13)
- Max. working pressure at 20 °C with water:
42 bar for 1/2", 3/4", 1"
21 bar for 1-1/4", 1-1/2"
12 bar for 2"



PRODUCT CODE	DN	CONNECTIONS	Kv	A [mm]	I [mm]	B [mm]	J [mm]	C [mm]	H [mm]
A730X023	15	G 1/2"F x G 1/2"F	13,3	57	28	53	16	77	wr.25
A730X024	20	G 3/4"F x G 3/4"F	25,8	62	31	70	21	95	wr.32
A730X025	25	G 1"F x G 1"F	50,9	76	38	78	25	95	wr.39
A730X026	32	G 1-1/4"F x G 1-1/4"F	103	86	43	88	30	95	wr.47
A730X027	40	G 1-1/2"F x G 1-1/2"F	147	97	48	109	37	137	wr.54
A730X028	50	G 2"F x G 2"F	222	111	55	125	46	137	wr.67
A730UY003	15	1/2"NPT-F x 1/2"NPT-F	13,3	57	28	53	16	77	wr.25
A730UY004	20	3/4"NPT-F x 3/4"NPT-F	25,8	62	31	70	21	95	wr.32
A730UY005	25	1"NPT-F x 1"NPT-F	50,9	76	38	78	25	95	wr.39
A730UY006	32	1-1/4"NPT-F x 1-1/4"NPT-F	103	86	43	88	30	95	wr.47
A730UY007	40	1-1/2"NPT-F x 1-1/2"NPT-F	147	97	48	109	37	137	wr.54
A730UY008	50	2"NPT-F x 2"NPT-F	222	111	55	125	46	137	wr.67



A250

Ball valve, standard port, DZR

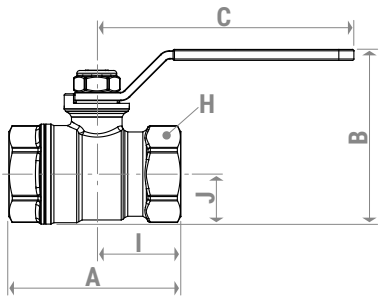
Ball valve, with female-female threaded connections. Standard Port. In compliance with UL 258:2025 and FM Class 1140 for fire protection applications with water. Made of DZR brass (dezincification resistant).

MAIN FEATURES AND MATERIALS

- Suitable for fire protection applications with water
- Standard port
- Valve made of DZR UNI EN 12165 CW602N rough or chrome plated brass
- Ball made of DZR UNI EN 12165 CW602N chrome plated brass
- Stem with double O-Ring
- Nut with anti-corrosion coating, with guarantee seal and hologram
- Steel lever handle with anti-corrosion treatment and red PVC coating

FIELD OF APPLICATIONS

- Min. working temperature: 4 °C (areas exposed to low temperature shall be protected against freezing - NFPA13)
- Max. working pressure at 20 °C with water:
 - 42 bar for 1/2", 3/4"
 - 35 bar for 1", 1-1/4"
 - 21 bar for 1-1/2"
 - 12 bar for 2"



PRODUCT CODE	DN	CONNECTIONS	Kv	A [mm]	I [mm]	B [mm]	J [mm]	C [mm]	H [mm]
A250X003	14	G 1/2"F x G 1/2"F	10,2	54	27	49	15	77	wr.25
A250X004	18	G 3/4"F x G 3/4"F	18,5	63	31	64	18	94	wr.32
A250X005	22	G 1"F x G 1"F	36,3	75	38	73	23	94	wr.39
A250X006	28	G 1-1/4"F x G 1-1/4"F	73,5	84	42	82	28	94	wr.48
A250X007	35	G 1-1/2"F x G 1-1/2"F	105	93	46	100	33	136	wr.55
A250X008	45	G 2"F x G 2"F	158	107	54	115	41	136	wr.67
A250UY003	14	1/2"NPT-F x 1/2"NPT-F	10,2	54	27	49	15	77	wr.25
A250UY004	18	3/4"NPT-F x 3/4"NPT-F	18,5	63	31	64	18	94	wr.32
A250UY005	22	1"NPT-F x 1"NPT-F	36,3	75	38	73	23	94	wr.39
A250UY006	28	1-1/4"NPT-F x 1-1/4"NPT-F	73,5	84	42	82	28	94	wr.48
A250UY007	35	1-1/2"NPT-F x 1-1/2"NPT-F	105	93	46	100	33	136	wr.55
A250UY008	45	2"NPT-F x 2"NPT-F	158	107	54	115	41	136	wr.67



R74A

Y filter

Inspectable Y-filters, suitable for the distribution of fluids in hydronic systems.

The filters feature a metallic mesh, which are designed to prevent solid impurities from entering into the piping and, by depositing residues, reducing the width of the passage, thus increasing losses of pressure and oxidation.

TECHNICAL DATA

- Fluids of use: water with glycol (max. 50%) for HVAC systems
- Working temperature range: 5÷110 °C
- Max. working pressure:
 - for NOT magnetizable filters: 16 bar
 - for magnetizable filters: 30 bar
- Filtering capacity: 500 µm

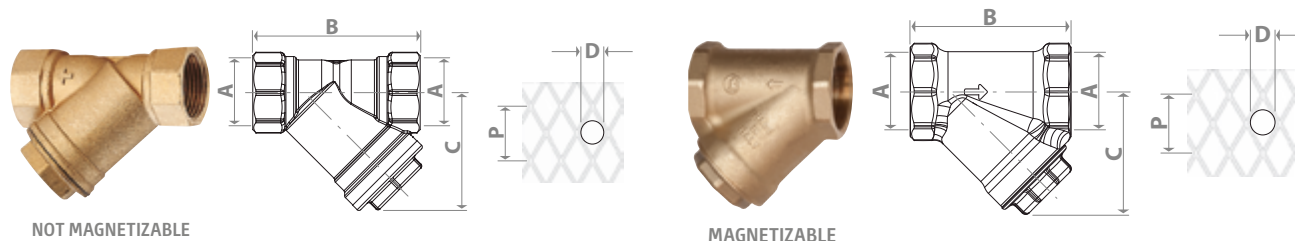
MATERIALS

NOT MAGNETIZABLE FILTERS

- Body: UNI EN 12165 - CW617N brass for 3/8"÷1 1/4";
EN 1982 - CB753S brass for 1 1/2"÷2 1/2";
UNI EN 1982 - CB491K bronze for 3", 4".
- Cap: UNI EN 12165 - CW617N brass • O-Ring: EPDM
- Metallic mesh: AISI 304 stainless steel

MAGNETIZABLE FILTERS

- Body and cap: UNI EN 12165 - CW617N brass
- O-Ring: EPDM
- Metallic mesh: AISI 304 stainless steel



PRODUCT CODE	A [mm]	Kv	B [mm]	C [mm]	P* [mm]	D* [mm]	N*
MAGNETIZABLE							
R74AY103	G 1/2"F	3,5	48	35	1	500	70
R74AY104	G 3/4"F	5,9	57	42			
R74AY105	G 1"F	10,0	68	52			
R74AY106	G 1-1/4"F	18,2	82	65			
R74AY107	G 1-1/2"F	20,9	90	72			
R74AY108	G 2"F	32,0	108	88			
NOT MAGNETIZABLE							
R74AY009	G 2-1/2"F	64,0	150	108	1	500	70
R74AY010	G 3"F	81,0	167	148			
R74AY011	G 4"F	102,0	226	185			

* P: passage of holes - D: diameter of hole inscribed - N: number of holes per cm²



R74M

Magnetic Y filter

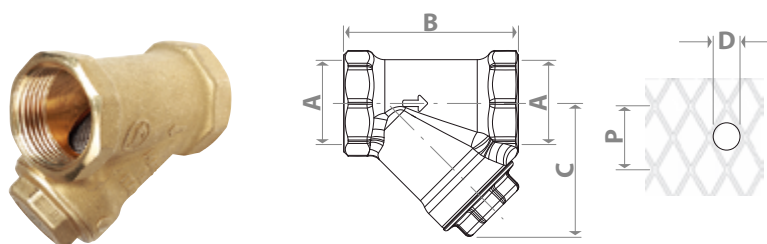
R74M is a magnetic Y-filter, inspectable, suitable for the distribution of fluids in hydronic systems. The filter features a metallic mesh and a magnet, which are designed to prevent solid impurities from entering into the piping and, by depositing residues, reducing the width of the passage, thus increasing losses of pressure and oxidation.

TECHNICAL DATA

- Fluids of use: water with glycol (max. 50%) for HVAC systems
- Working temperature range: 5÷110 °C
- Max. working pressure: 30 bar
- Filtering capacity: 500 µm

MATERIALS

- Body and cap: EN 12165 - CW617N brass
- O-Ring: EPDM
- Metallic mesh: stainless steel AISI 304
- Magnet: neodymium N35H
- Magnet coating: stainless steel AISI 304



PRODUCT CODE	A [mm]	Kv	B [mm]	C [mm]	P*	D*	N*
MAGNET WITH STEEL COATING							
R74MY013	G 1/2"F	3,1	48	35	1	500	70
R74MY014	G 3/4"F	5,6	57	42			
R74MY015	G 1"F	9,7	68	52			
R74MY016	G 1-1/4"F	17,0	82	65			
R74MY017	G 1-1/2"F	20,8	90	72			
R74MY018	G 2"F	35,9	108	88			

* P: passage of holes - D: diameter of hole inscribed - N: number of holes per cm²

P74M-1

Magnet with steel coating for R74A, R74M filters and R701F valves

High temperature resistant neodymium magnet with steel coating for R74A, R74M filters and R701F valves. Max. working temperature: 110 °C.

TECHNICAL DATA

- Max. working temperature: 110 °C.
- Neodymium N35H with AISI 304 stainless steel coating



R701F

Ball valve with built-in filter, full port

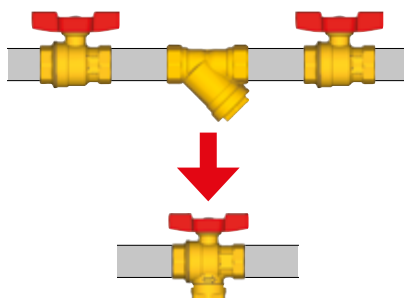
Ball valve with built-in filter, female-female threaded connections and full port.

Valve R701F is the ideal solution for hydraulic systems requiring installation of a filter and shut-off valves in limited space (for example, upstream of energy meters, circulators and/or on boilers and heat pump inlets.) It is also possible to install a magnet inside the valve to obtain an even more effective filtering.

TECHNICAL DATA

- Suitable for water for HVAC systems and glycol-based solutions (max. 50 %)
- Full port
- Valve made of EN 12165 CW617N brass, or EN 12165 CW602N (DZR) brass, depending on versions
- Stem with double O-Ring
- Nut with anti-corrosion coating, with guarantee seal and hologram
- Aluminium T-handle, red painted
- AISI 304 stainless steel filter
- Filtering capacity: 40 mesh
- P74M-1 magnet (accessory): neodymium N35H with AISI 304 stainless steel coating

INSTALLATION



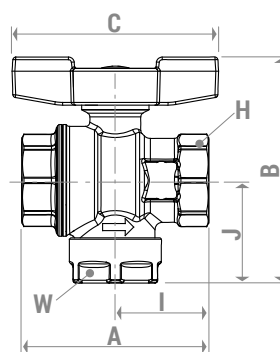
FIELD OF APPLICATIONS

- Working temperature range: 5÷110 °C (also with P74M-1 magnet installed)
- Max. working pressure at 20 °C with water: 3,2 MPa (32 bar)

ACCESSORIES

- Magnet with steel coating for R74A, R74M filters and R701F valves

PRODUCT CODE	SIZE
P74MY011	3/8", 1/2", 3/4" /Lenght 29 mm
P74MY012	1", 1-1/4" /Lenght 44 mm
P74MY013	1-1/2", 2" /Lenght 55 mm



PRODUCT CODE	DN	CONNECTIONS	Kv	A [mm]	I [mm]	B [mm]	J [mm]	C [mm]	H [mm]	W [mm]
R701FY023	15	G 1/2"F x G 1/2"F	2,5	59	30	69	31	63	wr.25	wr.27
R701FY024	20	G 3/4"F x G 3/4"F	4,6	66	33	80	36	73	wr.31	wr.30
R701FY025	25	G 1"F x G 1"F	10,0	79	40	94	46	73	wr.38	wr.40
R701FY026	32	G 1-1/4"F X G 1-1/4"F	19	91	45	105	52	73	wr.47	wr.47



R623

Dual-check backflow preventer

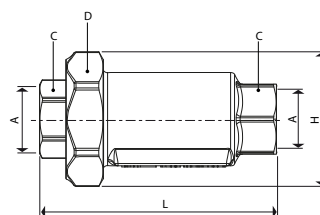
Dual-check backflow preventer. ED type (in accordance with UNI EN 1717).

TECHNICAL DATA

- Female threaded connections
- Working temperature range: 5÷80 °C
- Max. working pressure: 10 bar
- ED Type (UNI EN 1717)
- Only suitable for some domestic uses
- Complies with EN 13959

MATERIALS

- Body in brass UNI EN 12165 CW617N
- Brass nut UNI EN 12165 CW617N
- Seals in food-grade EPDM
- Check valves in food-grade POM plastic material



PRODUCT CODE	CONNECTIONS A	Kv	C (hexagon)	D (hexagon)	L	H
R623Y004	3/4" F	4,1	32	53	103	59
R623Y005	1" F	6,8	39	53	103	59

R624

Backflow preventer

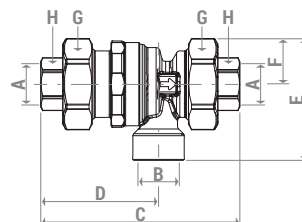
Backflow preventer, CA type

TECHNICAL DATA

- Female threaded connections with tail piece (EN 14367)
- Working temperature range: 5÷90 °C
- Max. working pressure: 10 bar (non shock)
- CA type (UNI EN 1717)
- Protection against fluids of categories: 1 - 2 - 3 (UNI EN 1717)
- A.S.S.E. type-approval 1012
- In compliance with EN 14367

MATERIALS

- Body: UNI EN 12165 CW617N brass
- Internal filter: stainless steel
- Internal stems: UNI EN 12164 CW614N brass
- Gaskets: EPDM
- Spring: stainless steel
- Elastic ring: phosphorous bronze



PRODUCT CODE	CONNECTIONS A	Kv	DRAIN B	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]
R624Y003	G 1/2" F	1,7	1,7	105	62	64	24	43	25
R624Y004	G 3/4" F	2,6	2,6	105	62	64	24	43	31



R626 - R626FL

Backflow preventer with controllable reduced pressure zone

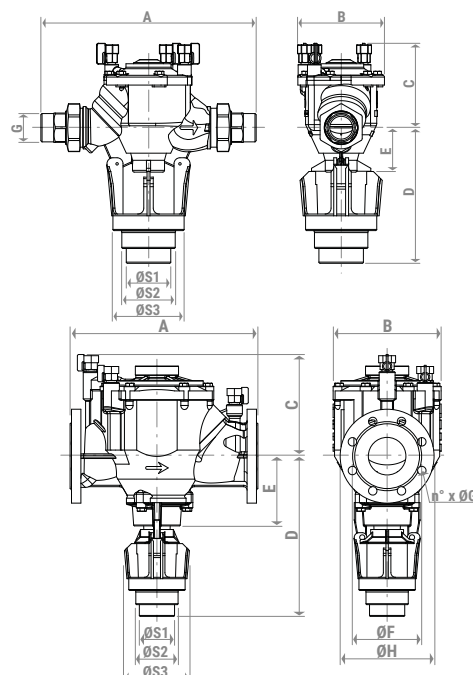
Backflow preventer with controllable reduced pressure zone, BA type

TECHNICAL DATA

- Max. working temperature: 65 °C
- Max. working pressure: 10 bar
- Type BA (Classification according to EN 1717)
- Protection against fluids of categories: 1, 2, 3, 4 (EN 1717)
- Complies with EN 12729

MATERIALS

- R626Y003: main body and covers in corrosion resistant brass (CR)
- R626Y004÷008: main body and covers in bronze
- R626FL: main body and covers in cast iron GJL250



PRODUCT CODE	DN	G	Kv	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	ØS1 [mm]	ØS2 [mm]	ØS3 [mm]	WEIGHT [kg]
THREADED VERSIONS												
R626Y003	15	G 1/2"M	1,76	174	68	58	169	58	50			1,45
R626Y004	20	G 3/4"M	6,7	258	106	107	186	55	63	-	-	4
R626Y005	25	G 1"M	9,7	258	106	107	186	55				4
R626Y006	32	G 1-1/4"M	13,5	357	146	140	230	75				9
R626Y007	40	G 1-1/2"M	25	357	146	140	230	75	75	91	96	9
R626Y008	50	G 2"M	38,6	428	181	159	243	88				13

PRODUCT CODE	DN	N° x ØG	Kv	ØF [mm]	ØH [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	ØS1 [mm]	ØS2 [mm]	ØS3 [mm]	WEIGHT [kg]
FLANGED VERSIONS														
R626Y106	65	4x18	64	160	185	360	189	200	290	137				30
R626Y108	80	8x18	85	185	200	400	230	214	341	157	75	90	120	40
R626Y110	100	8x18	129	200	220	450	230	234	347	163				46
R626Y115	150	8x22	235	210	250	540	276	259	370	186				73



R60

Disc check valve

Disc check valve, brass finish.

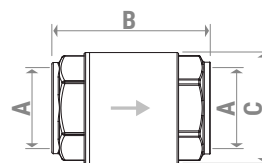
TECHNICAL DATA

- Fluids of use: water for HVAC systems (max. 30 % glycol), domestic hot water
- Working temperature range: 5÷95 °C
- Max. temperature for short periods of time: 110 °C
- Opening pressure: 0,02 bar
- Max. working pressure:

SIZE	POM STOPPER	BRASS STOPPER
From 1/4" to 1"	16 bar	35 bar
From 1-1/4" to 2"	10 bar	25 bar
From 2-1/2" to 4"	8 bar	12 bar

MATERIALS

- Body: brass UNI EN 12165 - CW617N
- Stopper (according to version):
 - acetal copolymer (POM)
 - brass: UNI EN 12165 - CW614N (from 1/4" to 1/2")
 - brass: UNI EN 12165 - CW617N (from 3/4" to 4")
- Gasket: NBR
- Spring: stainless steel AISI 302



PRODUCT CODE	A [mm]	Kv	B [mm]	C [mm]
POM STOPPER				
R60Y001	G 1/4"F	1,3	45	29
R60Y002	G 3/8"F	2,7	45	29
R60Y003	G 1/2"F	4	48	30
R60Y004	G 3/4"F	8	53	37
R60Y005	G 1"F	10,3	59	44
R60Y006	G 1-1/4"F	18	66	56
R60Y007	G 1-1/2"F	24	71	63
R60Y008	G 2"F	40	80	78
R60Y009	G 2-1/2"F	60	93	104
R60Y010	G 3"F	90	104	121
R60Y011	G 4"F	170	119	156
BRASS STOPPER				
R60Y032	G 3/8"F	2,7	45	29
R60Y033	G 1/2"F	4	48	30
R60Y034	G 3/4"F	8	53	37
R60Y035	G 1"F	10,3	59	44
R60Y036	G 1-1/4"F	18	66	56
R60Y037	G 1-1/2"F	24	71	63
R60Y038	G 2"F	40	80	78
R60Y039	G 2-1/2"F	60	93	104
R60Y040	G 3"F	90	104	121
R60Y041	G 4"F	170	119	156



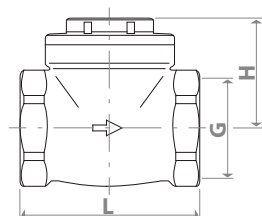
N5

Clapper check valve

Clapper check valve, neoprene seat

TECHNICAL DATA

- Compatible fluids: water for heating systems, domestic hot water, water containing glycol (max. 30 % glycol)
- Connections: female threaded ISO 228
- Working temperature range: 5÷95 °C (110 °C for occasional peaks)
- Max. working pressure: 16 bar (from 3/8" to 3"); 10 bar (4")
- Opening pressure: 0,05 bar



MATERIALS

- Valve body: brass UNI EN 12165 - CW617N (3/8"÷1")
brass UNI EN 1982 - CB753S (1 1/4"÷4")
- Cap: brass UNI EN 12165 CW617N
- O-ring and gasket: NBR
- Shutter: brass UNI EN 12165 CW617N

PRODUCT CODE	SIZE	Kv	H [mm]	L [mm]
N5Y002	3/8"	2,9	46	47
N5Y003	1/2"	6,5	46	47
N5Y004	3/4"	10,5	51	53
N5Y005	1"	17,8	61	63
N5Y006	1 1/4"	19,8	73	74
N5Y007	1 1/2"	26,7	85	87
N5Y008	2"	42,8	94	97
N5Y009	2 1/2"	61,4	107	118
N5Y010	3"	103	130	135
N5Y011	4"	336	159	164

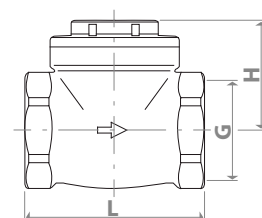
N6

Clapper check valve

Clapper check valve, metal seat

TECHNICAL DATA

- Compatible fluids: water for heating systems, domestic hot water, water containing glycol (max. 30 % glycol)
- Connections: female threaded ISO 228
- Working temperature range: 5÷95 °C (110 °C for occasional peaks)
- Max. working pressure: 16 bar
- Opening pressure: 0,05 bar



MATERIALS

- Valve body: brass UNI EN 12165 - CW617N (3/8"÷1")
brass UNI EN 1982 - CB753S (1 1/4"÷3")
- Cap: brass UNI EN 12165 CW617N
- O-ring and gasket: NBR
- Shutter: brass UNI EN 12165 CW617N

PRODUCT CODE	SIZE	Kv	H [mm]	L [mm]
N6Y002	3/8"	2,9	46	47
N6Y003	1/2"	6,5	46	47
N6Y004	3/4"	10,5	51	53
N6Y005	1"	17,8	61	63
N6Y006	1 1/4"	19,8	73	74
N6Y007	1 1/2"	26,7	85	87
N6Y008	2"	42,8	94	97
N6Y009	2 1/2"	61,4	107	118
N6Y010	3"	103	130	135



R88E, R88EI

Compact automatic air vent

Compact automatic air vent with integrated filter and horizontal vent

MAIN FEATURES AND MATERIALS

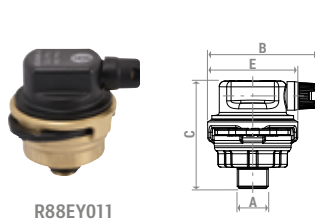
- Fluids of use: water with glycol for HVAC systems
- Max. glycol percentage: 50%
- Working temperature range: 5÷110 °C
- Max. working pressure: 16 bar
- Air venting max. working pressure: 7 bar
- Integrated filter: filtering capacity 500 µm
- Venting air flow rate:

PRESSURE [bar]	AIR FLOW RATE [l/h]
1	440
2	510
3	540
4	500
5	400
6	310
7	250

MATERIALS

- Body: UNI EN 12165 CW617N brass
- Body cap, air vent cap and fork: glass-fiber reinforced PA66
- O-Ring: EPDM
- Springs and filter: stainless steel
- Float: PP-H

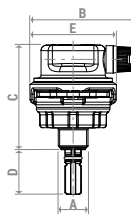
PRODUCT CODE	A [inch.]	B [mm]	C [mm]	D [mm]	E [mm]
R88EY011	G 1/4"M	59	57	n.d.	48
R88EY002	G 3/8"M	59	57	25	48
R88EY003	G 1/2"M	59	57	25	48
R88EIY002	G 3/8"M	59	64	25	48
R88EIY003	R 1/2"	59	64	25	48



R88EY011



R88EY002-R88EY003



R88EIY002-R88EIY003

R89

High-performance automatic air vent

High-performance automatic air vent with integrated filter and vertical vent

MAIN FEATURES AND MATERIALS

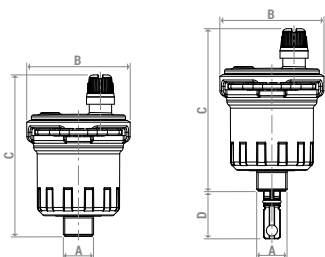
- Fluids of use: water with glycol for HVAC systems
- Max. glycol percentage: 50%
- Working temperature range: 5÷110 °C
- Max. working pressure: 16 bar
- Air venting max. working pressure: 5 bar
- Integrated filter: filtering capacity 500 µm
- Venting air flow rate:

PRESSURE [bar]	AIR FLOW RATE [l/h]
0,5	1900
1	2300
2	2700
3	2900
4	3100
5	3300

MATERIALS

- Body: UNI EN 12165 CW617N brass
- Body cap, air vent cap and fork: glass-fiber reinforced PA66
- O-Ring: EPDM
- Springs and filter: stainless steel
- Float: PP-H

PRODUCT CODE	A [inch.]	B [mm]	C [mm]	D [mm]
R89Y002	G 3/8"M	57	91	26
R89Y003	G 1/2"M	57	91	26
R89Y012	G 3/8"M	57	91	-
R89Y013	G 1/2"M	57	91	-
R89Y014	G 3/4"M	57	93	-
R89Y015	G 1"M	57	93	-



R89Y002
R89Y003



R89Y012
R89Y013
R89Y014
R89Y015



R87

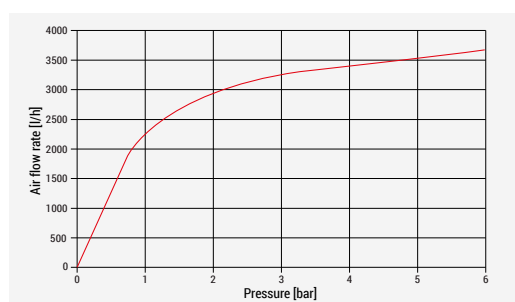
Boiler room air separator

The efficiency of next-gen generators and heat pumps can be highly impacted by the presence of air in the system, which can lead to corrosion, noise and reduced efficiency.

These issues can be prevented by installing R87 boiler room air separators. The air separator is equipped with a filter that protects the air vent system from impurities present in the system. The air vent cap is equipped with hygroscopic gaskets to prevent water leakage

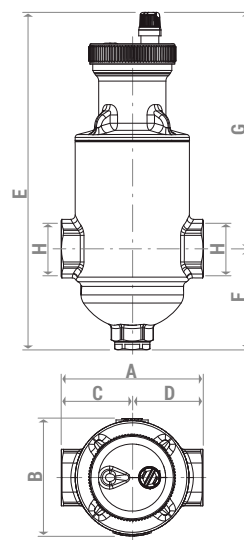
MAIN FEATURES AND MATERIALS

- Max. working pressure: 10 bar
- Working temperature range: 5÷110 °C
- Compatible fluids: water, glycol-based solutions (max. 30 %)
- Air venting max. working pressure: 6 bar
- Drain cap connection: G 1/2"F
- Air venting capacity:



MATERIALS

- Top body of the air separator unit: CW617N - UNI EN 12165 brass
- Bottom body: CB754S - UNI EN 1982 brass
- Air separator unit nut: CW617N - UNI EN 12165 brass
- Metal mesh: AISI 304 stainless steel
- Gaskets: EPDM
- Air separator unit:
 - Lid and cap: PA66 reinforced with glass fibers
 - O-Ring: EPDM
 - Springs and filter: stainless steel
 - Float: PP-H



PRODUCT CODE	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [inch.]
R87Y004	98	78	49	49	230	69	161	G 3/4"F
R87Y005	98	78	49	49	230	69	161	G 1"F
R87Y006	126	88	63	63	233	77	156	G 1-1/4"F
R87Y007	126	88	63	63	233	77	156	G 1-1/2"F
R87Y008	136	88	63	63	233	77	156	G 2"F



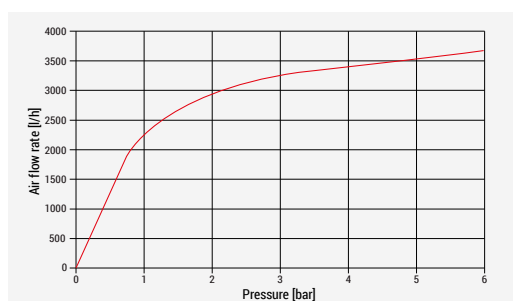
R87FL

Boiler room air separator with flanged connections

The efficiency of next-gen generators and heat pumps can be highly impacted by the presence of air in the system, which can lead to corrosion, noise and reduced efficiency. These issues can be prevented by installing R87FL boiler room air separators. The air separator is equipped with a filter that protects the air vent system from impurities present in the system. The air vent cap is equipped with hygroscopic gaskets to prevent water leakage.

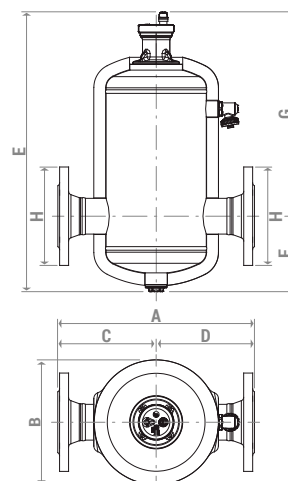
MAIN FEATURES AND MATERIALS

- Fluids: water with glycol for HVAC systems (max. 30 %)
- Max. working pressure: 10 bar
- Working temperature range: 5÷110 °C
- Air venting max. working pressure: 6 bar
- Drain cap connection: G 1" F
- Drain cock connections: G 1/2" F
- Air venting capacity:



MATERIALS

- Top body of the air separator unit: CW617N - UNI EN 12165 brass
- Bottom body: painted steel
- Air separator unit nut: CW617N - UNI EN 12165 brass
- Metal mesh: steel
- Gaskets: EPDM
- Air separator unit:
 - Lid and cap: PA66 reinforced with glass fibers
 - O-Ring: EPDM
 - Springs and filter: stainless steel
 - Float: PP-H
- Insulation: expanded PE, thickness 20 mm



PRODUCT CODE	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [inch.]
R87Y105	330	210	165	165	470	127	343	DN50
R87Y106	360	210	180	180	470	127	343	DN65
R87Y108	450	260	225	225	610	152	458	DN80
R87Y110	500	260	250	250	610	152	458	DN100
R87Y112	550	365	275	275	770	197	573	DN125
R87Y115	630	365	315	315	770	197	573	DN150



R276

2-way zone valve

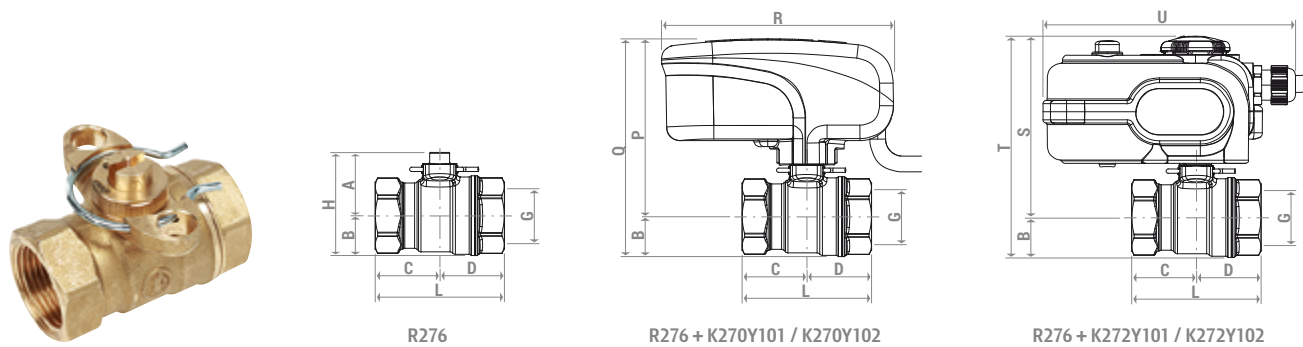
2-way zone valve, female-female connections

TECHNICAL DATA

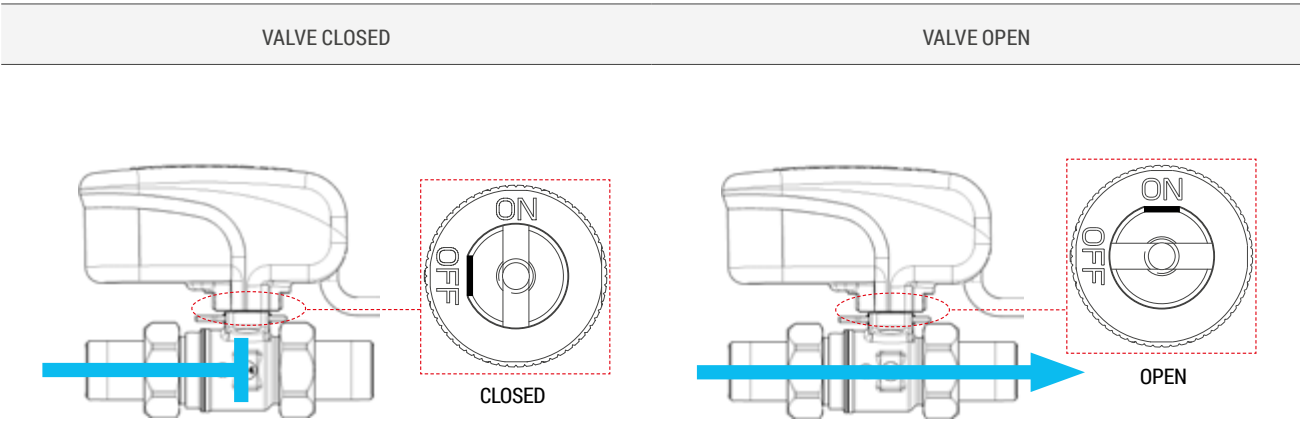
- Fluid: water for HVAC systems
- Max. working temperature: 110 °C
- Max. working pressure:
 - R276, R277 valves: 20 bar
 - R278, R279 valves: 10 bar

MATERIALS

- Body and main components: CW617N brass
- Gaskets: PTFE



PRODUCT CODE	CONNECTIONS G	Kv	C [mm]	D [mm]	L [mm]	B [mm]	A [mm]	H [mm]	P [mm]	Q [mm]	R [mm]	S [mm]	T [mm]	U [mm]
R276Y004	G 3/4"F	18,5	31	32	63	18	33	51	92	110	118	108	126	157
R276Y005	G 1"F	36,3	38	38	76	23	37	60	96	119	118	112	135	157



R276B

2-way zone valve with K272 actuator and insulation

2-way zone valve, female-female connections, with K272 actuator and insulation

TECHNICAL DATA

- Fluids of use: water, water and glycol (max. 50 %)
- Working temperature range (valve + actuator): -5÷110 °C
- Nominal pressure (PN): 40 bar
- Maximum differential pressure: 16 bar
- Actuator connection: ISO 5211
 - F03 for R276BX006, R276BX026
 - F05 for R276BX007, R276BX027, R276BX008, R276BX028

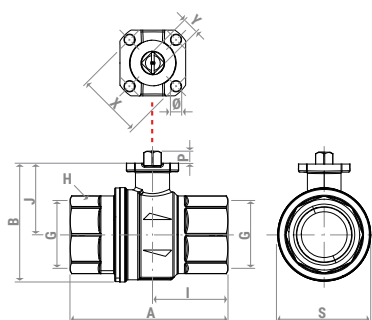


MATERIALS

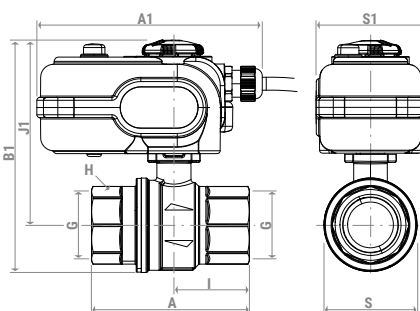
- Body, ball, command stem: brass CW617N
- Gaskets: FPM and PTFE
- Insulation: expanded crosslinked polyethylene

SIZE	ELECTRICAL POWER SUPPLY TO ACTUATOR (CODE)
R276BX006	230 V (spare part code: K272Y101)
R276BX026	24 V (spare part code: K272Y102)
R276BX007	230 V (spare part code: K272Y101)
R276BX027	24 V (spare part code: K272Y102)
R276BX008	230 V (spare part code: K272Y101)
R276BX028	24 V (spare part code: K272Y102)

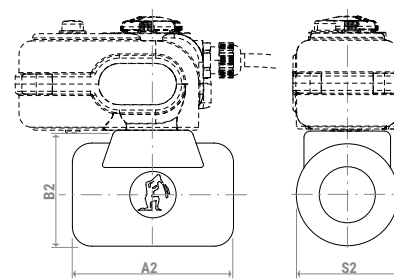
PRODUCT CODE	CONNECTIONS	FLANGE
R276BX006	G 1-1/4"F x G 1-1/4"F (DN32)	F03
R276BX026		
R276BX007	G 1-1/2"F x G 1-1/2"F (DN40)	F05
R276BX027		
R276BX008	G 2"F x G 2"F (DN50)	F05
R276BX028		



Valve



Valve and actuator



Insulation

PRODUCT CODE	Kv	A [mm]	I [mm]	B [mm]	J [mm]	S [mm]	H [mm]	P [mm]	B1 [mm]	J1 [mm]	A1 [mm]	S1 [mm]	X [mm]	Y [mm]	Ø	A2 [mm]	B2 [mm]	S2 [mm]
R276BX006	89	110	52	83	50	65	50	9	163	130	157	76	36	9	M5	125	90	80
R276BX026																		
R276BX007	244	120	59	102	62	80	55	10	182	142	157	76	50	11	M6	130	110	95
R276BX027																		
R276BX008	288	140	68	117	69	96	70	10	197	149	157	76	50	11	M6	150	120	110
R276BX028																		



R297 - R297FL

3-way sector mixing valves

The R297, R297FL 3-way sector mixing valves enable to intercept and mix heat transfer fluids in HVAC systems. The fluids are mixed through a rotating sector conferring a linear function to the valve while maintaining a low manoeuvring torque. R297, R297FL valves can be used to both mix and divert the flow. For optimal operation and control, the valves must be combined to a K275 or K275-1 actuator and may be controlled by KLIMAbus electronic control products.

TECHNICAL DATA

- Fluids: water, glycol-based solutions (max. 50%)
- Working temperature range: 5÷110 °C
- Max. working pressure: 10 bar (R297) - 6 bar (R297FL)
- Max. differential pressure: 1 bar
- Rotation angle: 90° from initial position, in both directions (clockwise and counterclockwise)
- Kv/Kvmin setting range: 100
- Leakage: max. 0,1% Kv with $\Delta P = 1$ bar

MATERIALS

R297

- Valve body: CW617N brass
- Rotating sector: CW617N brass
- Anti-friction ring: PTFE
- Gaskets: EPDM, FPM
- Covering plate: aluminum

R297FL

- Body valve: EN-JL 1030 cast iron
- Rotating sector: CW614N brass and stainless steel
- Bush: CW602N brass
- Gaskets: EPDM
- Covering plate: cast iron



R297FL
DN50, DN65, DN80, DN100, DN125



R297
1-1/2", 2"

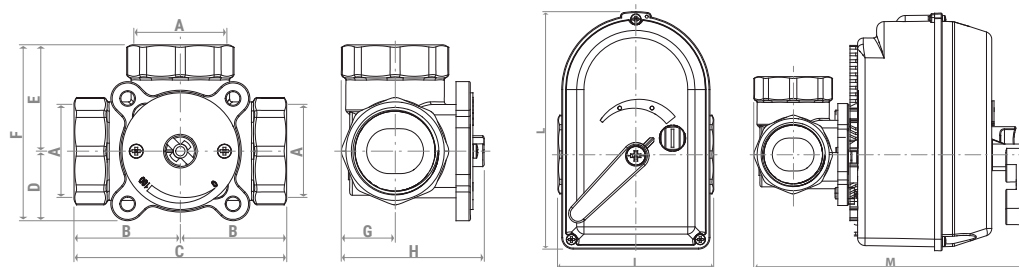


R297
3/4", 1", 1-1/4"

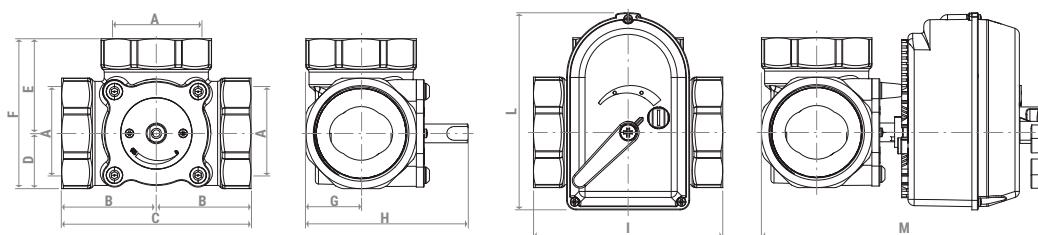
PRODUCT CODE	CONNECTIONS	Kv	WEIGHT [kg]	COMPATIBLE ACTUATORS	
				ACTUATOR	ACTUATOR INSTALLATION KIT
R297Y004	Rp 3/4"F x Rp 3/4"F	7	1,1	K275Y002 (series K275) K275Y011 (series K275-1) K275Y013 (series K275-1)	KIT 0297 (included with valve) SPARE PART: P275Y004
R297Y005	Rp 1"F x Rp 1"F	11	1,2		
R297Y006	Rp 1-1/4"F x Rp 1-1/4"F	15	1,5		
R297Y007	Rp 1-1/2"F x Rp 1-1/2"F	25	1,6	K275Y002 (series K275) K275Y011 (series K275-1) K275Y013 (series K275-1)	KIT 0297A (included with valve) SPARE PART: P275Y001
R297Y008	Rp 2"F x Rp 2"F	40	2,3		
R297Y105	DN50 (EN 1092-2)	60	9,1		
R297Y106	DN65 (EN 1092-2)	90	10	K275Y002 (series K275) K275Y011 (series K275-1) K275Y013 (series K275-1)	KIT P275Y001 (to be ordered separately)
R297Y108	DN80 (EN 1092-2)	150	16,2		
R297Y110	DN100 (EN 1092-2)	225	21		
R297Y112	DN125 (EN 1092-2)	280	27		



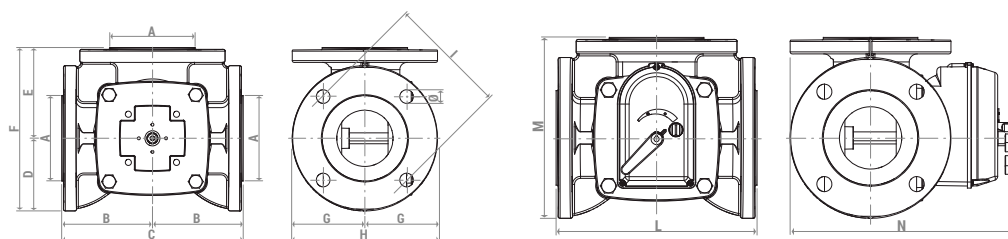
R297 3/4", 1", 1-1/4"



R297 1-1/2", 2"



Versions DN15, DN20 without tail pieces



PRODUCT CODE	CONNECTIONS A	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	L [mm]	M [mm]
THREADED VERSIONS											
R297Y004	Rp 3/4"F x Rp 3/4"F	36	72	27	36	63	19	53	78	125	145
R297Y005	Rp 1"F x Rp 1"F	41	82	27	41	68	21	55	82	125	147
R297Y006	Rp 1-1/4"F x Rp 1-1/4"F	47	94	27	47	74	25	62	94	125	154
R297Y007	Rp 1-1/2"F x Rp 1-1/2"F	53	106	30	53	83	30	96	106	125	179
R297Y008	Rp 2"F x Rp 2"F	60	120	35	60	95	35	103	120	125	186

PRODUCT CODE	CONNECTIONS A	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	Ø [mm]	L [mm]	M [mm]	N [mm]
FLANGED VERSIONS													
R297Y105	DN50 (EN 1092-2)	97,5	195	70	98	168	70	140	110	N°4 x Ø15	195	168	225
R297Y106	DN65 (EN 1092-2)	100	200	80	100	180	80	160	130	N°4 x Ø15	200	180	245
R297Y108	DN80 (EN 1092-2)	120	240	95	120	215	95	190	150	N°4 x Ø15	240	215	265
R297Y110	DN100 (EN 1092-2)	132,5	265	105	133	238	105	210	170	N°4 x Ø15	265	238	290
R297Y112	DN125 (EN 1092-2)	150	300	120	150	270	120	240	200	N°4 x Ø15	300	270	300



R274 - R274N

6-way zone valves

6-way zone valve with male threaded connections.

For use in applications on four pipes systems, where it is necessary to change over between heating and cooling water temperatures at the devices, to produce cooling or heating in the building's rooms.

The typical installation is on ceiling systems, underfloor systems and on fan coil systems, but are not excluded other applications.

TECHNICAL DATA

- Fluid Working temperature range: 5÷90 °C
- Rated pressure (PN): 16 bar
- Maximum differential pressure: 2 bar
- Maximum glycol percentage: 50 % (the percentage of glycol must be equal for both circuits - heating and cooling)
- Leakage rate (according to EN12266-1): A, no leakage
- Connection for actuator: F04 - ISO 5211

MATERIALS

- Valve body: brass CW617N or CW602N (DZR) depending on version
- Gaskets: low-friction PTFE / EPDM
- Connection for actuator: PA66-GF30



R274

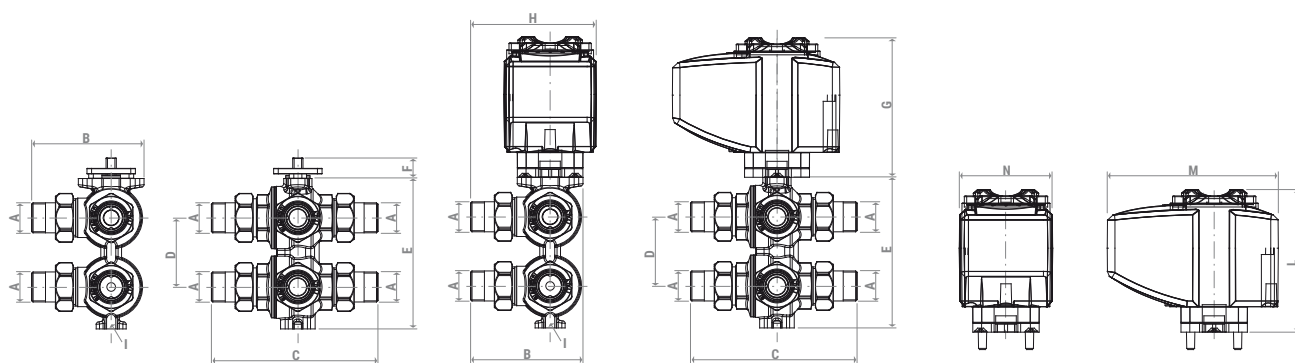


R274N

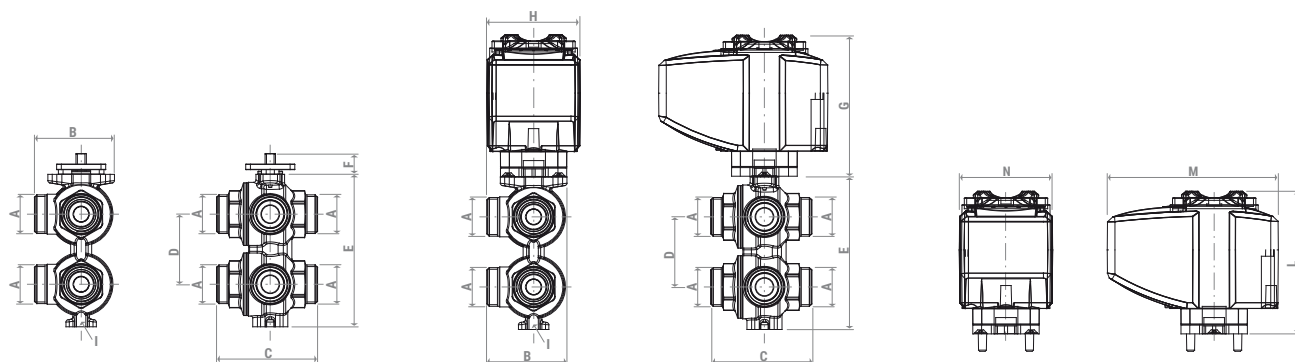
PRODUCT CODE	TOTAL Kv (VALVE DELIVERY AND RETURN + WASHER)
Valve + P21SY001	0,25 (washer hole Ø 2,7 mm)
Valve + P21SY002	0,40 (washer hole Ø 3,5 mm)
Valve + P21SY003	0,65 (washer hole Ø 4,5 mm)
Valve + P21SY004	1,00 (washer hole Ø 6,0 mm)
Valve + P21SY005	1,30 (washer hole Ø 7,0 mm)
Valve + P21SY006	1,60 (washer hole Ø 8,0 mm)
Valve without P21S	1,90
Valve + P21SY011	0,25 (washer hole Ø 3 mm)
Valve + P21SY012	0,40 (washer hole Ø 4 mm)
Valve + P21SY013	0,65 (washer hole Ø 4,5 mm)
Valve + P21SY014	1,00 (washer hole Ø 5,8 mm)
Valve + P21SY015	1,30 (washer hole Ø 6,7 mm)
Valve + P21SY016	1,60 (washer hole Ø 7,5 mm)
Valve + P21SY017	2,50 (washer hole Ø 9,0 mm)
Valve + P21SY018	3,45 (washer hole Ø 12,7 mm)
R274Y023 without P21S	3,45
R274Y024 without P21S	4,00
R274Y025/045/145 without P21S	4,25



R274 (valves with flat seat tail pieces)



R274N (valves without tail pieces)



PRODUCT CODE	CONNECTIONS A	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	L [mm]	M [mm]	N [mm]
R274Y023	G 1/2"M	97	147	60	131	18	90	100	1 hole M6	90	108	59
R274Y024	G 3/4"M	96	145	60	131	18	90	100	1 hole M6	90	108	59
R274Y025	G 1"M	104	161	60	131	18	90	107	1 hole M6	90	108	59
R274Y033	G 1/2"M	51	68	45	100	18	90	59	2holes M4	90	108	59
R274Y133	G 1/2"M	51	68	45	100	18	90	59	2holes M4	90	108	59
R274Y045	G 1"M	67	87	60	131	18	90	70	1 hole M6	90	108	59
R274Y145	G 1"M	67	87	60	131	18	90	70	1 hole M6	90	108	59



ELECTRICAL ACTUATORS

R473

Thermo-electric actuator, normally closed.
Cable length 1 m.

PRODUCT CODE	POWER SUPPLY
R473X221	230 V
R473X222	24 V



With new high efficiency thermo-electric probe. Can be used to replace the manual handwheels on valves with thermostatic option and/or manifolds.

R473M

Thermo-electric actuator, normally closed, with microswitch. Cable length 1 m.

PRODUCT CODE	POWER SUPPLY
R473MX221	230 V
R473MX222	24 V



With new high efficiency thermo-electric probe. Can be used to replace the manual handwheels on valves with thermostatic option and/or manifolds.

R473E

Thermo-electric actuator, normally closed, equipped with adaptor for Giacomini Clip Clap connection. Cable length 1 m.

PRODUCT CODE	POWER SUPPLY
R473EX001	230 V



Can be used to replace the manual handwheels on valves with thermostatic option and/or manifolds. TÜV Süd certification.

R473HE

Thermo-electric actuator, normally closed, equipped with adaptor for M30 x 1,5 mm connection. Cable length 1 m.

PRODUCT CODE	POWER SUPPLY
R473HEX001	230 V



Can be used to replace the manual handwheels on valves with thermostatic option and/or manifolds. TÜV Süd certification.

K270

Actuator for R276, R277, R278, R279 zone valves and R279D diverting valve.

PRODUCT CODE	POWER SUPPLY
K270Y101	230 V
K270Y102	24 V



Equipped with stroke-end microswitch.
Rotation time: 40 seconds.



K270-1

Fast acting actuator for R279B valves and hydronic unit for heat pump.

PRODUCT CODE	POWER SUPPLY
K270Y211	230 V



Equipped with stroke-end microswitch.
Rotation time: 8 seconds.

K270-2

Fast acting actuator for R279D diverting valve.

PRODUCT CODE	POWER SUPPLY
K270Y111	230 V



Equipped with stroke-end microswitch.
Rotation time: 10 seconds.

K272

Actuator for R276, R276B, R277, R278, R279 zone valves and R279D diverting valve.

PRODUCT CODE	POWER SUPPLY
K272Y101	230 V
K272Y102	24 V



With stroke-end microswitch and knob for manual operation.
90° rotation in around 60 seconds.

K274

Actuator for R295, R296 mixing valves.

PRODUCT CODE	POWER SUPPLY
K274Y101	230 V
K274Y102	24 V



Possibility of automatic command in combination with Giacomini electronic control.

K274-1

Actuator for sector mixing valves of R586RFL units.

PRODUCT CODE	POWER SUPPLY
K274Y103	24 V / 0-10 V



Accessories - P274Y001: kit for K274Y103 actuator installation on R586RFL units.

K275-1

Actuator for control R296, R297, R297FL mixing valves, R274N, R274C 6-WAY zone valves (only K275Y013) and R586R distribution units.

PRODUCT CODE	POWER SUPPLY
K275Y011	230 V /3-point floating
K275Y013	24 V /0-10 V



The following kits are also supplied with the actuator:

- P275Y003: kit for actuator installation on R296 mixing valves
- P275Y004: kit for actuator installation on R297 3/4", 1", 1-1/4" mixing valves

K281

Actuator for R298, R298N mixing valves and R280KC, R280KL fan coil kits with M30 x 1,5 mm connection.

PRODUCT CODE	POWER SUPPLY
K281X012	24 V - 0÷10 V
K281X014	24 V - 0÷10 V / fast
K281X022	24 V - 3 point floating



K281-1

Actuator for R206A (DN15, DN20, DN25) PICV and R280KC, R280KL fan coil kits, with M30 x 1,5 mm connection.

PRODUCT CODE	POWER SUPPLY
K281X062	24 V - 0÷10 V
K281X063	24 V - 0÷10 V /with fail safe



K281-2

Actuator for R206A (DN50) PICV with M30 x 1,5 mm connection.

PRODUCT CODE	POWER SUPPLY
K281X082	24 V - 0÷10 V



R146M - R146MFL

Magnetic dirt separators

The R146M, R146MFL magnetic dirt separators enable the separation and elimination of impurities present in the hydronic circuits of modern heating and air conditioning systems.

TECHNICAL DATA

R146M

- Working temperature range: 0÷110 °C
- Max. working pressure: 10 bar
- Fluids used: water, glycol solution (max. 30 %)
- Dirt separator connections: threaded G, ISO 228
- Drain cock connections: 1/2" M + pipe-holder connection
- Top cap connection: 1/2"F

R146MFL

- Working temperature range: 0÷130 °C
- Max. working pressure: 10 bar
- Fluids used: water, glycol solution (max. 50 %)
- Dirt separator connections: EN 1092-1 PN16 flange
- Drain cock connections: 1"F
- Top cap connection: 1/2"F

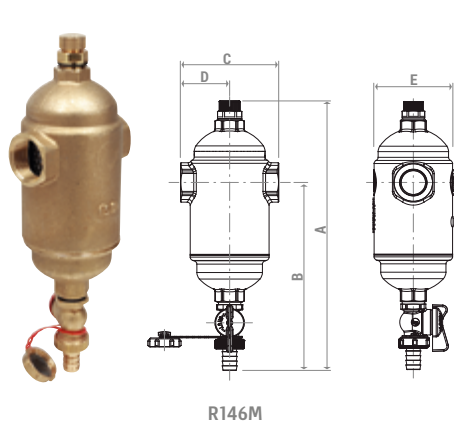
MATERIALS

R146M

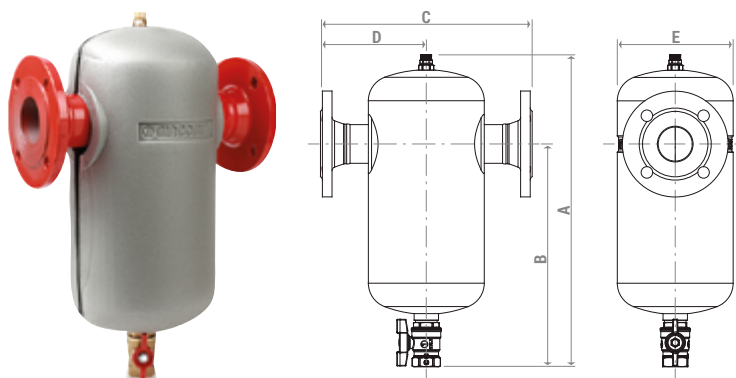
- Body: brass CW617N - EN 12165
- Filter: stainless steel AISI 304
- Gaskets: EPDM
- Magnet: AlNiCo

R146MFL

- Body: painted steel
- Metallic mesh: steel
- Insulation:
 - Shell: polypropylene
 - Thickness: 20 mm
 - Density: 30 kg/m³
 - Thermal conductivity (ISO 2581): 0,039 W/m K
 - Reaction to fire (DIN 4102): class B2
- Magnet: AlNiCo



R146M



R146MFL

PRODUCT CODE	CONNECTIONS	Kv	MAX FLOW RATE [m³/h]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	VOLUME [l]	WEIGHT [kg]
R146M - THREADED VERSIONS										
R146MY014	G 3/4"F	18,4	1,5	274	191	97	49	81	0,45	2
R146MY015	G 1"F	31,9	2,5	274	191	97	49	81	0,46	2
R146MY016	G 1-1/4"F	48,4	4	277	186	125	63	91	0,6	2,5
R146MY017	G 1-1/2"F	62,7	6	277	186	125	63	91	0,62	2,5
R146MY018	G 2"F	65,9	9	277	186	135	68	91	0,69	2,7
R146MFL - FLANGED VERSIONS										
R146MY105	DN50	80	10,5	477	347	330	165	181	5,7	11
R146MY106	DN65	146	17,5	537	392	360	180	210	9,6	15
R146MY108	DN80	186	25	617	462	450	225	260	19,3	22
R146MY110	DN100	263	42	677	502	500	250	314	33,6	30
R146MY112	DN125	520	65	777	577	550	275	365	55,5	43
R146MY115	DN150	762	95	877	622	630	315	397	78,8	60



R146D - R146DFL

Dirt separators

The R146D, R146DFL dirt separators allow the separation and removal of impurities present in the hydronic circuits of modern HVAC systems.

TECHNICAL DATA

R146D

- Working temperature range: 0÷110 °C
- Max. working pressure: 10 bar
- Fluids used: water, glycol solution (max. 30 %)
- Dirt separator connections: threaded G, ISO 228
- Drain cock connections: 1/2" M + pipe-holder connection
- Top cap connection: 1/2" F

R146DFL

- Working temperature range: 0÷130 °C
- Max. working pressure: 10 bar
- Fluids used: water, glycol solution (max. 50 %)
- Dirt separator connections: EN 1092-1 PN16 flange
- Drain cock connections: 1" F
- Top cap connection: 1/2" F

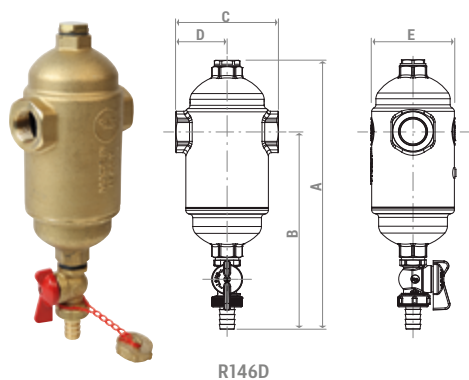
MATERIALS

R146D

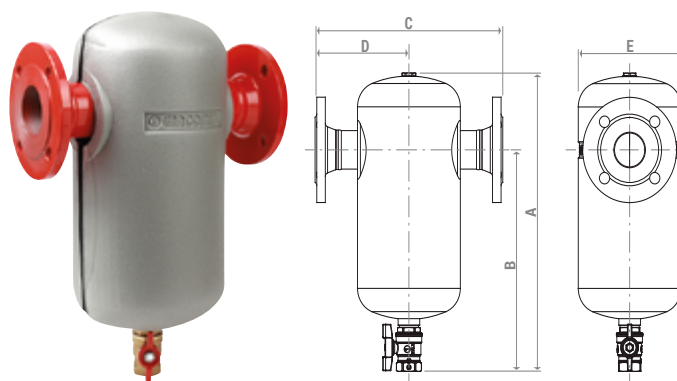
- Body: brass CW617N - EN 12165
- Filter: stainless steel AISI 304
- Gaskets: EPDM

R146DFL

- Body: painted steel
- Metallic mesh: steel
- Insulation:
 - Shell: polypropylene
 - Thickness: 20 mm
 - Density: 30 kg/m³
 - Thermal conductivity (ISO 2581): 0,039 W/m K
 - Reaction to fire (DIN 4102): class B2



R146D



R146DFL

PRODUCT CODE	CONNECTIONS	Kv	MAX FLOW RATE [m ³ /h]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	VOLUME [l]	WEIGHT [kg]
R146D - THREADED VERSIONS										
R146DY014	G 3/4" F	18,4	1,5	260	191	97	49	81	0,45	2
R146DY015	G 1" F	31,9	2,5	260	191	97	49	81	0,46	2
R146DY016	G 1-1/4" F	48,4	4	263	186	125	63	91	0,6	2,5
R146DY017	G 1-1/2" F	62,7	6	263	186	125	63	91	0,62	2,5
R146DY018	G 2" F	65,9	9	263	186	135	68	91	0,69	2,7
R146DFL - FLANGED VERSIONS										
R146DY105	DN50	80	10,5	468	347	330	165	181	5,7	11
R146DY106	DN65	146	17,5	528	392	360	180	210	9,6	15
R146DY108	DN80	186	25	608	462	450	225	260	19,3	22
R146DY110	DN100	263	42	668	502	500	250	314	33,6	30
R146DY112	DN125	520	65	768	577	550	275	365	55,5	43
R146DY115	DN150	762	95	868	622	630	315	397	78,8	60



R146I - R146IFL

Hydraulic separators

Hydraulic separators with threaded or flanged connections (EN 1092-1 PN16). Equipped with an automatic air vent and drain cock. Varnished steel body.

TECHNICAL DATA

R146I

- Working temperature range: 0÷110 °C
- Max. working pressure: 10 bar
- Max. pressure of air vent operation: 7 bar
- Fluids: water, glycol-based solution (max. 50 %)
- Air vent valve connection: 1/2"F
- Drain cock connections: 1/2" M + pipe-holder connection
- Additional frontal connection: 1/2"F

R146IFL

- Working temperature range: 0÷130 °C
- Max. working pressure: 10 bar
- Max. pressure of air vent operation: 5 bar
- Fluids: water, glycol-based solution (max. 50 %)
- Separator connections: EN 1092-1 PN16 flange
- Air vent valve connection: 1/2"F
- Drain valve connection: 1"F

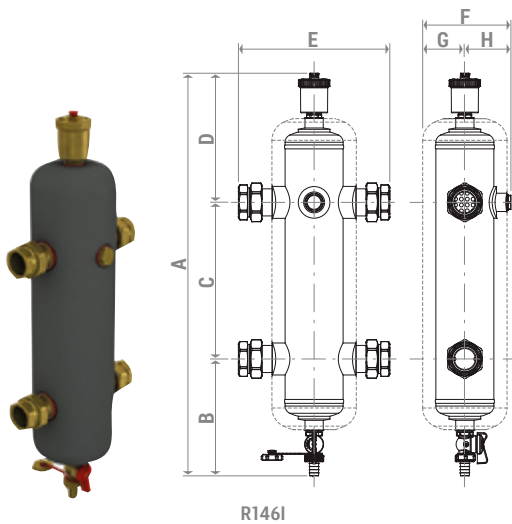
MATERIALS

R146I

- Separator body: FE360 varnished steel
- Automatic air vent valve: Body and cap: EN 12165 CW617N brass, O-Ring: EPDM, Stopper spring: inox., Internal float: PP-H
- 3-pieces fittings: Body: EN 12165 CW617N brass, Gaskets: PTFE
- Plug: Body: EN 12164 CW614N brass, Gasket: EPDM
- Drain cock: EN 12165 CW617N brass
- Insulation: Shell: open cell PE foam with embossed aluminium lining, Thickness: 20 mm, Density: 30 kg/m3, Thermal conductivity: 0,038 W/m K, Fire reaction (DIN 4102): class B2

R146IFL

- Separator body: FE360 varnished steel
- Automatic air vent valve: Body and cap: EN 12165 CW617N brass, O-Ring: EPDM, Stopper spring: inox, Internal float: TPX
- Drain ball valve: EN 12165 CW617N brass
- Insulation: Shell: polypropylene, Thickness: 20 mm, Density: 30 kg/m3, Thermal conductivity: 0,039 W/m K, Fire reaction (DIN 4102): class B2



R146I



R146IFL

PRODUCT CODE	CONNECTIONS	MAX FLOW RATE [m³/h]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	VOLUME [l]	WEIGHT [kg]
R146I - THREADED VERSIONS												
R146IY005	G 1"F	2,5	572	167	220	185	213	123	59	64	1,5	2,7
R146IY006	G 1-1/4"F	4	617	179	240	198	232	136	65	71	2,5	3,7
R146IY007	Rc 1-1/2"	6	667	194	260	213	310	161	78	83	4,5	5,7
R146IY008	Rc 2"	9	712	207	280	225	353	187	91	96	7,2	7,2
R146IFL - FLANGED VERSIONS												
R146IY105	DN50	10,5	884	262	280	342	330	181	-	-	10	19
R146IY106	DN65	17,5	1004	282	360	362	360	210	-	-	17	25
R146IY108	DN80	25	1164	322	440	402	450	260	-	-	36	36
R146IY110	DN100	42	1284	352	500	432	500	314	-	-	66	48
R146IY112	DN125	65	1484	402	600	482	550	365	-	-	105	73
R146IY115	DN150	95	1683	452	700	531	600	397	-	-	109	97



R146IM - R146IMFL

Magnetic hydraulic separators

Hydraulic separator with threaded connections, with magnet housing and P146M magnet. Equipped with automatic air vent and with drain cock. Varnished steel body.

TECHNICAL DATA

R146IM

- Working temperature range: 0÷110 °C
- Max. working pressure: 10 bar
- Max. pressure of air vent operation: 7 bar
- Fluids: water, glycol-based solution (max. 50 %)
- Air vent valve connection: 1/2" F
- Drain cock connections: 1/2" M + pipe-holder connection
- Additional frontal connection: 1/2" F

R146IMFL

- Working temperature range: 0÷130 °C
- Max. working pressure: 10 bar
- Max. pressure of air vent operation: 5 bar
- Fluids: water, glycol-based solution (max. 50 %)
- Separator connections: EN 1092-1 PN16 flange
- Air vent valve connection: 1/2" F
- Drain valve connection: 1" F

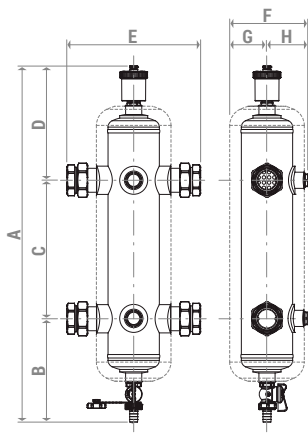
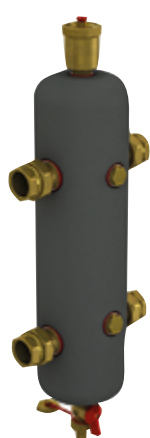
MATERIALS

R146IM

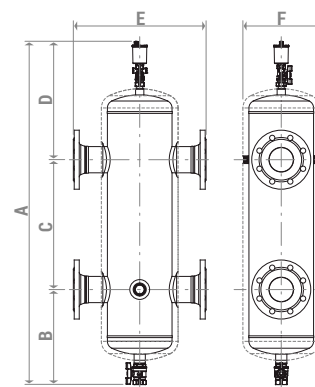
- Separator body: FE360 varnished steel
- Automatic air vent valve: Body and cap: EN 12165 CW617N brass, O-Ring: EPDM, Stopper spring: inox, Internal float: PP-H
- 3-pieces fittings: Body: EN 12165 CW617N brass, Gaskets: PTFE
- Plug: Body: EN 12164 CW614N brass, Gasket: EPDM
- Drain cock: EN 12165 CW617N brass
- Insulation: Shell: open cell PE foam with embossed aluminium lining, Thickness: 20 mm, Density: 30 kg/m³, Thermal conductivity: 0,038 W/m K, Fire reaction (DIN 4102): class B2
- Magnet: AlNiCo

R146IMFL

- Separator body: FE360 varnished steel
- Automatic air vent valve: Body and cap: EN 12165 CW617N brass, O-Ring: EPDM, Stopper spring: inox, Internal float: TPX
- Drain ball valve: EN 12165 CW617N brass
- Insulation: Shell: polypropylene, Thickness: 20 mm, Density: 30 kg/m³, Thermal conductivity: 0,039 W/m K, Fire reaction (DIN 4102): class B2
- Magnet: AlNiCo



R146IM



R146IMFL

PRODUCT CODE	CONNECTIONS	MAX FLOW RATE [m ³ /h]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	VOLUME [l]	WEIGHT [kg]
R146IM - THREADED VERSIONS												
R146IM005	G 1" F	2,5	572	167	220	185	213	123	59	64	1,5	2,7
R146IM006	G 1-1/4" F	4	617	179	240	198	232	136	65	71	2,5	3,7
R146IM007	Rc 1-1/2"	6	667	194	260	213	310	161	78	83	4,5	5,7
R146IM008	Rc 2"	9	712	207	280	225	353	187	91	96	7,2	7,2
R146IMFL - FLANGED VERSIONS												
R146IMY105	DN50	10,5	884	262	280	342	330	181	-	-	10	19
R146IMY106	DN65	17,5	1004	282	360	362	360	210	-	-	17	25
R146IMY108	DN80	25	1164	322	440	402	450	260	-	-	36	36
R146IMY110	DN100	42	1284	352	500	432	500	314	-	-	66	48
R146IMY112	DN125	65	1484	402	600	482	550	365	-	-	105	73
R146IMY115	DN150	95	1683	452	700	531	600	397	-	-	109	97



R55

Gate valve with female threads

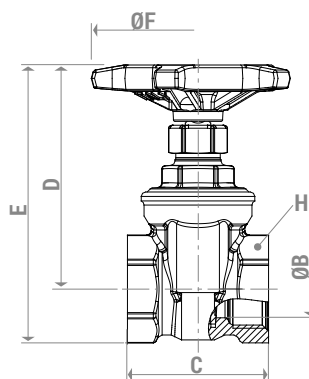
Gate valve with female threads. It is suitable for use with cold water, hot water and steam at low pressure. It satisfies the requirements of PED 2014/68/EU Directive, according to which it is exempt from CE marking.

MAIN FEATURES AND MATERIALS

- Suitable for plumbing systems.
- Body: UNI EN 12165 - CW617N brass (3/8"÷3")
UNI 7013 - CuSn5Zn5Pb5 bronze (4")
- Particulars in forged brass (UNI EN 12165 - CW617N) and machined from bar (UNI EN 12164 - CW614N).
- PTFE external sealing.
- Handwheel: aluminium (3/8"÷3") steel plate laminated with epoxy red
- Zinc plated steel nut for fixing of the handwheel

FIELD OF APPLICATIONS

- Working temperature range: 5÷110 °C (41÷230 °F)
- Max. working pressure:
16 bar / 232 psi (a 23 °C / 73 °F)
10 bar / 145 psi (a 95 °C / 203 °F)



PRODUCT CODE	SIZE	Kv	ØB [mm]	C [mm]	D [mm]	Ex	E [mm]	ØF [mm]
R55Y002 R55ZY002 R55UY002	3/8"	8	12	37	60	22	72	59
R55Y003 R55ZY003 R55UY003	1/2"	12	14	43	64	26	79	59
R55Y004 R55ZY004 R55UY004	3/4"	36	19	48	76	33	94	72
R55Y005 R55ZY005 R55UY005	1"	61	25	54	87	40	109	72
R55Y006 R55ZY006 R55UY006	1 1/4"	90	32	62	96	49	130	84
R55Y007 R55ZY007 R55UY007	1 1/2"	180	38	64	116	55	147	95
R55Y008 R55ZY008 R55UY008	2"	290	51	76	140	69	178	108
R55Y009 R55UY009	2 1/2"	400	60	80	186	84	233	145
R55Y010 R55UY010	3"	670	70	84	198	98	256	145
R55Y012	4"	1202	93	96	240	-	-	120



R59FL

LUG type butterfly valve

Butterfly valve with dual stem. Stainless steel disc.

TECHNICAL DATA

R59FLY004-030

- Max. working temperature: 120 °C
- Nominal pressure: 16 bar
- Max. working pressure (continuous): 11 bar
- Max. allowed Δp : 1,6 bar
- Fluids of use: group 2 - liquid (2014/68/EU PED)

R59FLX004-030

- Max. working temperature: 120 °C
- Nominal pressure: 16 bar
- Max. working pressure (continuous): 11 bar
- Max. allowed Δp : 1,6 bar
- Fluids of use: group 2 - liquid (2014/68/EU PED)

R59FLX035-060

- Max. working temperature: 120 °C
- Nominal pressure: 16 bar
- Max. working pressure (continuous): 11 bar
- Max. allowed Δp : 1,6 bar
- Fluids of use: group 2 - liquid and gases (2014/68/EU PED)

MATERIALS

R59FLY004-030

- Body: cast iron (GG 25)
- Disc: stainless steel
- Seat: EPDM
- Upper stem: stainless steel
- Bottom stem: stainless steel

R59FLX004-030

- Body: cast iron (GG 25)
- Disc: nickel plated ductile iron
- Seat: EPDM
- Upper stem: stainless steel
- Bottom stem: stainless steel

R59FLX035-060

- Body: cast iron (GG 25)
- Disc: nickel plated ductile iron
- Seat: EPDM
- Upper stem: stainless steel
- Bottom stem: stainless steel

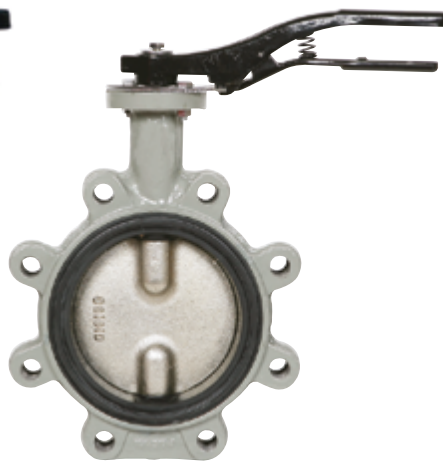
- Throttling plate: carbon steel
- Hand lever: cast iron
- Nut: carbon steel
- Bolt: carbon steel

- Throttling plate: carbon steel
- Hand lever: cast iron
- Nut: carbon steel
- Bolt: carbon steel

- Gear box: cast iron
- Nut: carbon steel
- Bolt: carbon steel



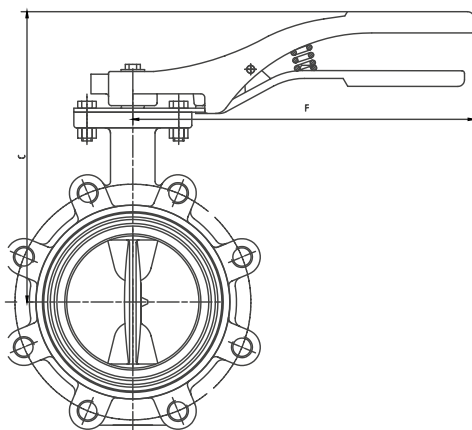
R59FLY004-030



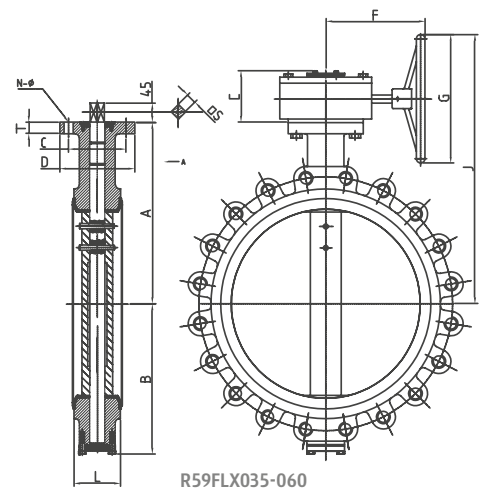
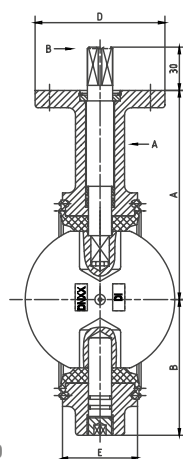
R59FLX004-030



R59FLX035-060



R59FLY004-030 - R59FLX004-030



R59FLX035-060



PRODUCT CODE	CONNECTIONS	Kv	A [mm]	B [mm]	E [mm]	D [mm]	F [mm]	C [mm]	WEIGHT [kg]
R59FLY004-030 - R59FLX004-030									
R59FLY004	DN40	49,5	140	63,5	34,5	90	260	217	3,80
R59FLY005	DN50	115	140	68,5	43	90	260	217	4,50
R59FLY006	DN65	255	152	76	45	90	260	229	5,40
R59FLY008	DN80	375	160	85	46	90	260	237	5,60
R59FLY010	DN100	760	180	100	51,5	90	260	257	7,80
R59FLY012	DN125	1030	191	120	56	90	260	268	10,00
R59FLY015	DN150	1790	202	132	56,5	90	260	279	12,00
R59FLY020	DN200	3450	237	160	60	125	326	336	17,00
R59FLY025	DN250	5050	274	200	68,5	125	416	376	34,60
R59FLY030	DN300	7420	312	230	79,5	125	416	414	48,90
R59FLX004	DN40	49,5	140	63,5	34,5	90	260	217	3,80
R59FLX005	DN50	115	140	68,5	43	90	260	217	4,50
R59FLX006	DN65	255	152	76	45	90	260	229	5,40
R59FLX008	DN80	375	160	85	46	90	260	237	5,60
R59FLX010	DN100	760	180	100	51,5	90	260	257	7,80
R59FLX012	DN125	1030	191	120	56	90	260	268	10,00
R59FLX015	DN150	1790	202	132	56,5	90	260	279	12,00
R59FLX020	DN200	3450	237	160	60	125	326	336	17,00
R59FLX025	DN250	5050	274	200	68,5	125	416	376	34,60
R59FLX030	DN300	7420	312	230	79,5	125	416	414	48,90

PRODUCT CODE	CONNECTIONS	Kv	A [mm]	B [mm]	L [mm]	N-Ø [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	T [mm]	S [mm]	J [mm]	WEIGHT [kg]
R59FLX035-060															
R59FLX035	DN350	10300	368	280	78	4-14	125	150	161	226	297	24	Ø 22	565	70,00
R59FLX040	DN400	13220	400	310	88	4-18	140	175	252	266	388	25	Ø 27	660	120,00
R59FLX045	DN450	17150	422	340	109	4-18	140	175	252	266	388	26	Ø 27	682	130,60
R59FLX050	DN500	21080	480	388	127	4-22	165	210	264	241	388	25	Ø 48	730	180,00
R59FLX060	DN600	31100	562	450	154	4-22	165	210	264	241	388	30	Ø 48	812	233,30



R59W

Wafer type butterfly valve

Butterfly valve with gear box. Nickel plated ductile iron disc.

TECHNICAL DATA

R59WY004-030

- Max. working temperature: 120 °C
- Nominal pressure: 16 bar
- Max. working pressure (continuous): 11 bar
- Max. allowed Δp : 1,6 bar
- Fluids of use: group 2 - liquid (2014/68/EU PED)

R59WX004-030

- Max. working temperature: 120 °C
- Nominal pressure: 16 bar
- Max. working pressure (continuous): 11 bar
- Max. allowed Δp : 1,6 bar
- Fluids of use: group 2 - liquid (2014/68/EU PED)

R59WX035-060

- Max. working temperature: 120 °C
- Nominal pressure: 16 bar
- Max. working pressure (continuous): 11 bar
- Max. allowed Δp : 1,6 bar
- Fluids of use: group 2 - liquid and gases (2014/68/EU PED)

MATERIALS

R59WY004-030

- Body: cast iron (GG 25)
- Disc: stainless steel
- Seat: EPDM
- Upper stem: stainless steel
- Bottom stem: stainless steel

- Throtling plate: carbon steel
- Hand lever: cast iron
- Nut: carbon steel
- Bolt: carbon steel

R59WX004-030

- Body: cast iron (GG 25)
- Disc: nickel plated ductile iron
- Seat: EPDM
- Upper stem: stainless steel
- Bottom stem: stainless steel

- Throtling plate: carbon steel
- Hand lever: cast iron
- Nut: carbon steel
- Bolt: carbon steel

R59WX035-060

- Body: cast iron (GG 25)
- Disc: nickel plated ductile iron
- Seat: EPDM
- Upper stem: stainless steel
- Bottom stem: stainless steel

- Gear box: cast iron
- Nut: carbon steel
- Bolt: carbon steel



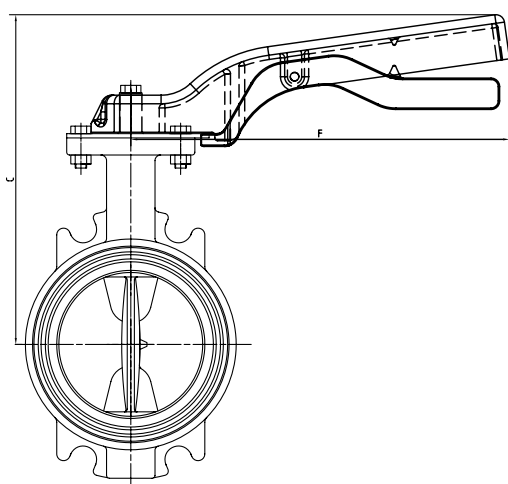
R59WY004-030



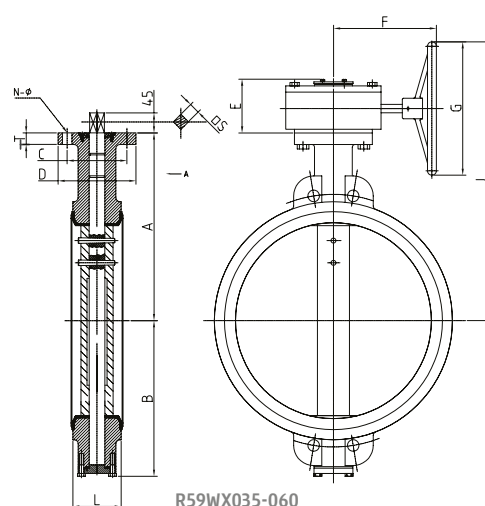
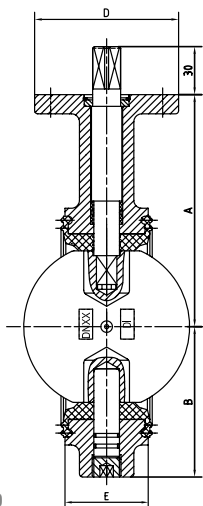
R59WX004-030



R59WX035-060



R59WY004-030 - R59WX004-030



R59WX035-060



PRODUCT CODE	CONNECTIONS	Kv	A [mm]	B [mm]	E [mm]	D [mm]	F [mm]	C [mm]	WEIGHT [kg]
R59WY004-030 - R59WX004-030									
R59WY004	DN40	49,5	140	63,5	34,5	90	260	217	4,00
R59WY005	DN50	115	140	68,0	43	90	260	217	4,50
R59WY006	DN65	255	152	70	45	90	260	229	5,50
R59WY008	DN80	375	160	78,5	46	90	260	237	5,60
R59WY010	DN100	760	180	94	51,5	90	260	257	7,15
R59WY012	DN125	1030	191	106	56	90	260	268	10,00
R59WY015	DN150	1790	202	120	56,5	90	260	279	12,00
R59WY020	DN200	3450	237	155	60	125	326	336	16,07
R59WY025	DN250	5050	274	192	68,5	125	416	376	36,80
R59WY030	DN300	7420	312	216	79,5	125	416	414	48,00
R59WX004	DN40	49,5	140	63,5	34,5	90	260	217	4,00
R59WX005	DN50	115	140	68,0	43	90	260	217	4,50
R59WX006	DN65	255	152	70	45	90	260	229	5,50
R59WX008	DN80	375	160	78,5	46	90	260	237	5,60
R59WX010	DN100	760	180	94	51,5	90	260	257	7,15
R59WX012	DN125	1030	191	106	56	90	260	268	10,00
R59WX015	DN150	1790	202	120	56,5	90	260	279	12,00
R59WX020	DN200	3450	237	155	60	125	326	336	16,07
R59WX025	DN250	5050	274	192	68,5	125	416	376	36,80
R59WX030	DN300	7420	312	216	79,5	125	416	414	48,00

PRODUCT CODE	CONNECTIONS	Kv	A [mm]	B [mm]	L [mm]	N-Ø [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	T [mm]	S [mm]	J [mm]	WEIGHT [kg]
R59WX035-060															
R59WX035	DN350	10300	368	280	78	4-14	125	150	161	226	297	24	Ø 22	565	66,66
R59WX040	DN400	13220	400	310	88	4-18	140	175	252	266	388	25	Ø 27	660	110,00
R59WX045	DN450	17150	422	340	109	4-18	140	175	252	266	388	26	Ø 27	682	130,80
R59WX050	DN500	21080	480	388	127	4-22	165	210	264	241	388	25	Ø 48	730	157,00
R59WX060	DN600	31100	562	450	154	4-22	165	210	264	241	388	30	Ø 48	812	222,00



R740FL

Full bore ball valve

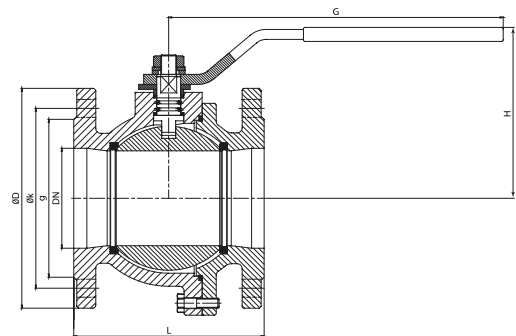
Full bore ball valve with stainless steel ball.

TECHNICAL DATA

- Max. working conditions with water
- Max. working temperature: 120 °C
- Nominal pressure: 16 bar
- Max. working pressure (continuous): 11 bar
- Fluids of use: group 2 - liquid (2014/68/EU PED)

MATERIALS

- Body: cast iron (GG 25)
- Ball: stainless steel
- Stem: stainless steel
- Seat: PTFE
- O-Ring: EPDM
- Hand lever: carbon steel
- Nut: carbon steel
- Bolt: carbon steel



PRODUCT CODE	CONNECTIONS	L [mm]	ØD [mm]	ØK [mm]	g [mm]	H [mm]	G [mm]	WEIGHT [kg]
R740FLY004	DN40	140	150	110	84	120	190	7,10
R740FLY005	DN50	150	165	125	99	130	260	10,50
R740FLY006	DN65	170	185	145	118	140	260	11,40
R740FLY008	DN80	180	200	160	132	155	335	18,40
R740FLY010	DN100	190	220	180	156	170	335	24,80
R740FLY012	DN125	325	250	210	184	190	335	39,10
R740FLY015	DN150	350	285	240	211	245	700	65,40
R740FLY020	DN200	400	340	295	266	280	700	91,50



R55FL

Gate valve

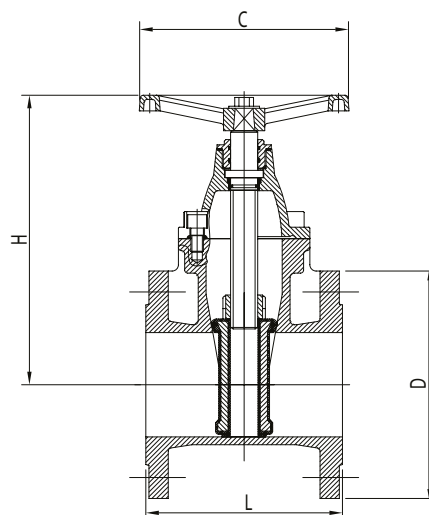
Gate valve with EPDM coated wedge.

TECHNICAL DATA

- Max. working temperature: 100 °C
- Nominal pressure: 16 bar
- Max. working pressure (continuous): 11 bar
- Fluids of use: group 2 - liquid (2014/68/EU PED)

MATERIALS

- Body: cast iron (GG 25)
- Wedge: ductile iron (GGG 40), EPDM coated
- Wedge nut: brass
- Gasket: EPDM
- Handwheel: cast iron (GG 25)
- Bonnet: cast iron (GG 25)
- O-Ring: EPDM
- Stem: stainless steel
- Bolt: carbon steel



PRODUCT CODE	CONNECTIONS	L [mm]	H [mm]	D [mm]	C [mm]	WEIGHT [kg]
R55FLY005	DN50	150	197	165	160	9,70
R55FLY006	DN65	170	228	185	200	13,20
R55FLY008	DN80	180	254	200	200	15,30
R55FLY010	DN100	190	281	220	200	20,30
R55FLY012	DN125	200	340	250	250	33,35
R55FLY015	DN150	210	378	285	250	45,30
R55FLY020	DN200	230	460	340	320	86,80
R55FLY025	DN250	250	563	400	366	132,50
R55FLY030	DN300	270	643	455	366	186,50



R60W

Brass body disc type check valve

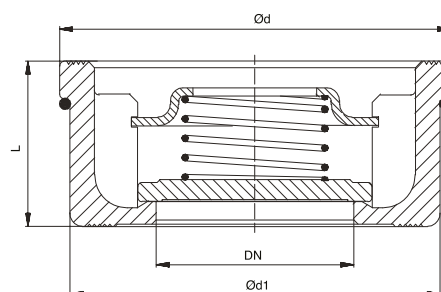
Disc type check valve.

TECHNICAL DATA

- Max. working temperature: 120 °C
- Nominal pressure: 16 bar
- Max. working pressure (continuous): 11 bar
- Fluids of use: group 2 - liquid and gases (2014/68/EU PED)

MATERIALS

- Body: brass (DN15÷DN100); stainless steel (DN125÷DN200)
- Disc: stainless steel
- Spring: stainless steel
- Guide: stainless steel



PRODUCT CODE	CONNECTIONS	L [mm]	ØD [mm]	ØD1 [mm]	WEIGHT [kg]
R60WY000	DN15	16	40	15	0,10
R60WY001	DN20	19	47	20	0,20
R60WY002	DN25	22	56	25	0,30
R60WY003	DN32	28	72	32	0,50
R60WY004	DN40	31,5	82	39	0,60
R60WY005	DN50	40	95	48	1,00
R60WY006	DN65	46	115	64	1,40
R60WY008	DN80	50	132	74	2,10
R60WY010	DN100	60	152	89	3,20
R60WY012	DN125	90	184	112	8,00
R60WY015	DN150	106	209	132	12,00
R60WY020	DN200	140	264	175	21,00



R74FL

Strainer with stainless steel screen

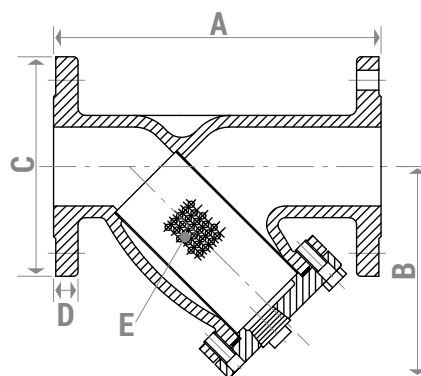
Strainer with stainless steel screen, epoxy painted.

TECHNICAL DATA

- Max. working temperature: 120 °C
- Nominal pressure: 16 bar
- Max. working pressure (continuous): 11 bar
- Fluids of use: group 1 & 2 - liquid and gases (2014/68/EU PED)

MATERIALS

- Body: cast iron (GG 25)
- Screen: stainless steel
- Cover: cast iron (GG 25)
- Gasket: EPDM
- Plug: ductile iron
- Bolt: carbon steel



PRODUCT CODE	CONNECTIONS	Kv	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	PLUG (BSPT)	WEIGHT [kg]
R74FLY005	DN50	42,5	230	130	165	17	Ø 1,5	1/2"	8,26
R74FLY006	DN65	97,3	290	156	185	20	Ø 1,5	1/2"	10
R74FLY008	DN80	114	310	172	200	22	Ø 1,5	1/2"	13
R74FLY010	DN100	216	350	215	220	24	Ø 3	1/2"	17,5
R74FLY012	DN125	343	400	240	250	26	Ø 3	1-1/4"	25
R74FLY015	DN150	385	480	282	285	26	Ø 3	1-1/4"	34
R74FLY020	DN200	788	600	335	340	30	Ø 3	1-1/4"	56
R74FLY025	DN250	1242	730	460	400	32	Ø 3	1-1/4"	175
R74FLY030	DN300	1589	850	515	455	32	Ø 3	2"	225



R156-2

Thermostatic mixer, tail pieces male connections

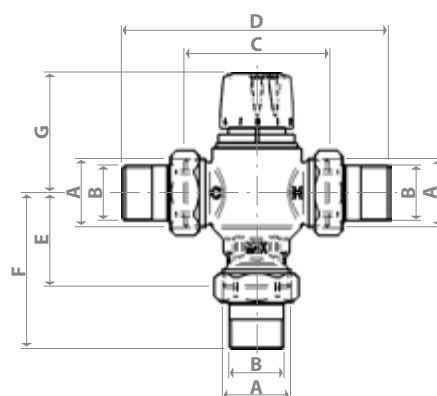
Thermostatic mixer for use in domestic water systems, brass finish, tail pieces male connections.

MAIN FEATURES AND MATERIALS

- Maximum working pressure (static): 10 bar
- Maximum working pressure (dynamic): 5 bar
- Working temperature range: 30÷65 °C
- Maximum inlet temperature (hot water): 85 °C
- Accuracy: ± 2 °C
- Maximum inlet pressure ratio (H/C or C/H): 2:1
- Minimum temperature difference between hot water inlet and mixed water outlet to ensure the thermal closure function: 15 °C
- Minimum flow rate for stable operation: 9 l/min (1/2", 3/4"); 15 l/min (1", 1 1/4"); 40 l/min (1 1/2", 2")

MATERIALS

- Body: DZR brass EN 12165 CW602N (1/2", 3/4")
brass EN 12165 CW617N (1", 1 1/4", 1 1/2", 2")
- Internal springs: stainless steel
- O-Rings: EPDM
- Handwheel: high resistance plastic



PRODUCT CODE	CONNECTIONS	Kv	A	B	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]
R156Y223	1/2"M	1,3	G 3/4"	G 1/2"	58	104	42	65	52
R156Y224	3/4"M	1,4	G 1"	G 3/4"	59	119	42,5	72,5	52
R156Y225	1"M	5	G 1 1/4"	G 1"	89	165	58	96	73
R156Y226	1 1/4"M	5,8	G 1 1/2"	G 1 1/4"	90	183	58,5	105	73
R156Y227	1 1/2"M	11	G 2"	G 1 1/2"	123	217	80,5	125,5	93
R156Y228	2"M	12	G 2 1/2"	G 2"	123	234	81	136,5	93



R156 - R156-1

Thermostatic mixer for domestic water systems

Thermostatic mixer for use in domestic water systems, chrome plated brass, tail pieces male connections.

MAIN FEATURES AND MATERIALS

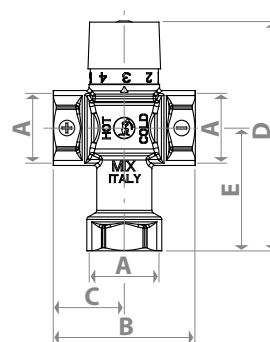
- Max. working temperature: 100 °C
- Max. working pressure: 16 bar
- Temperature regulation range: 38÷60 °C
- Regulation scale subdivision: 1 °C
- Regulation accuracy: ±1 °C
- Knob with mechanical position stop

MATERIALS

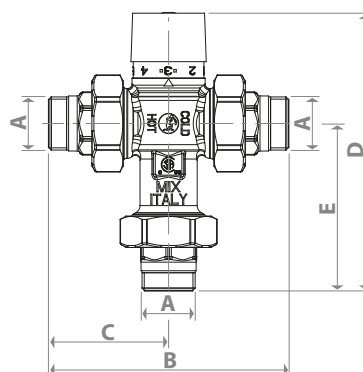
- Body: chrome plated forged brass
- Springs: stainless steel
- Thermostatic bulb: wax
- O-Rings: Ethylene Propylene
- Knob: high resistance plastic



R156



R156-1



PRODUCT CODE	CONNECTIONS	Kv	B [mm]	C [mm]	D [mm]	E [mm]
R156						
R156X004	G 3/4"F	2,0	73	36,5	118	63
R156X005	G 1"F	2,2	73	36,5	118	63
R156-1						
R156X024	G 3/4"M	1,8	120	60	138	83
R156X025	G 1"M	2,0	128	64	143	83



R153M

Diaphragm pressure reducer, PN25

The R153M diaphragm pressure reducer is an automatic valve that reduces and stabilizes the pressure of a fluid in a water distribution conduit according to a preset value.

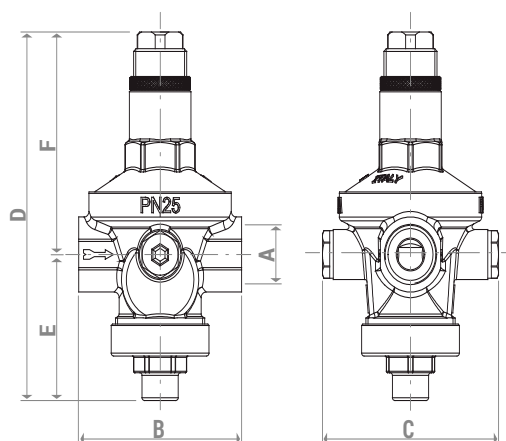
The use of this hydraulic device is necessary if the maximum possible pressure at any point in the water distribution system can reach or exceed the relative maximum allowable working pressure, or if apparatus and equipment that function exclusively at lower levels of pressure are connectable.

MAIN FEATURES AND MATERIALS

- Max. working pressure (PN): 25 bar
- Outlet pressure regulation range: 1,5÷7 bar
- Outlet pressure factory set: 3 bar
- Working temperature range: 0÷80 °C (no freezing)
- Compatible fluids: water, glycol-based solutions (max. 50 %), compressed air only for 1/2", 3/4", 1", 1-1/4", 1-1/2"
- Compliant with Standard EN 1567
- Sound class II - Lap [dB (A)] < 30

MATERIALS

- Body: DZR CW602N brass (UNI EN 12165)
- Diaphragm: EPDM with polyamide reinforcement
- Gaskets: EPDM peroxide (dynamic O-Ring seals), NBR (gaskets, seat and static O-Ring seals)
- Seat: EN 10088 - 1.4305 stainless steel (AISI 303)
- Spring: EN10270-1 SM zinc plated steel



PRODUCT CODE	CONNECTIONS A	FLOW RATE [m³/h]	FLOW RATE [l/min]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
R153MY003	G 1/2"F	1,27	21,16	67,5	73	132,5	52,5	80
R153MY004	G 3/4"F	2,27	37,83	77	73	156	65,5	90,5
R153MY005	G 1"F	3,6	60	90	87	190	69,5	120,5
R153MY006	G 1-1/4"F	5,8	96,66	106	99	197	74	123
R153MY007	G 1-1/2"F	9,1	151,66	137	104	241	82,1	158,9
R153MY008	G 2"F	14	233,33	170	117	266,8	87	179,8



R153P

Piston pressure reducer, PN25

The piston-type pressure reducer R153P is an automatic valve that reduces and stabilizes the pressure of a fluid in a water distribution conduit according to a preset value.

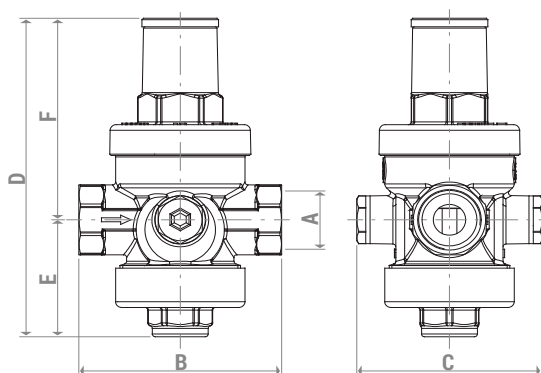
The use of this hydraulic device is necessary if the maximum possible pressure at any point in the water distribution system can reach or exceed the relative maximum allowable working pressure, or if it is connected to apparatus and equipment that function exclusively at lower levels of pressure.

MAIN FEATURES AND MATERIALS

- Max. working pressure (PN): 25 bar
- Outlet pressure regulation range: from 1 to 5,5 bar
- Outlet pressure factory set: 3 bar
- Working temperature range: 0÷130 °C (no freezing)
- Compatible fluids: water, glycol-based solutions (max. 50 %), compressed air only for 1/2", 3/4", 1", 1-1/4", 1-1/2"
- Compliant with Standard EN 1567
- Sound class II - Lap [dB (A)] < 30

MATERIALS

- Body: CW617N (UNI EN 12165) nickel plated brass
- Piston: technopolymer reinforced with glass fibre
- Gaskets: EPDM peroxide
- Seat: EN 10088 - 1.4305 stainless steel (AISI 303)
- Spring: EN10270-1 SM zinc plated steel



PRODUCT CODE	CONNECTIONS A	FLOW RATE [m³/h]	FLOW RATE [l/min]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
R153PX003	G 1/2"F	1,27	21,16	69	63	113,8	41,8	72
R153PX004	G 3/4"F	2,27	37,83	82	63	113,8	41,8	72
R153PX005	G 1"F	3,6	60	96	73	145,5	52,5	93
R153PX006	G 1-1/4"F	5,8	96,66	100	73	151,5	56,5	95
R153PX007	G 1-1/2"F	9,1	151,66	91	77	148	48	100
R153PX008	G 2"F	14	233,33	97	81	150	48	102



R153C

Piston pressure reducer, PN16

The R153C pressure reducer is an automatic valve that reduces and stabilizes the pressure of a fluid in a water distribution conduit according to a preset value.

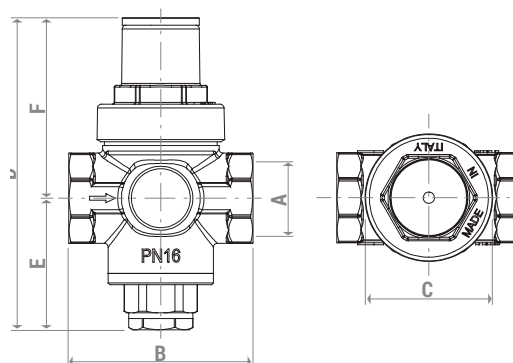
Its reduced size, silent operation and internal self-cleaning seat render this valve ideal for use in small systems such as apartments and single-family households (according to EN 806-2 and EN 805) or as a safety device in boilers or automatic beverage distributors.

MAIN FEATURES AND MATERIALS

- Max. working pressure (PN): 16 bar
- Outlet pressure regulation range: from 1 to 5,5 bar
- Outlet pressure factory set: 3 bar
- Working temperature range: 0÷130 °C (no freezing)
- Compatible fluids: water, glycol-based solutions (max. 50 %), compressed air
- Compliant with Standard EN 1567
- Sound class I - Lap [dB (A)] < 20

MATERIALS

- Body: CW617N (UNI EN 12165) nickel plated brass
- Piston: technopolymer reinforced with glass fibre
- Gaskets: EPDM peroxide
- Spring: EN10270-1 SM zinc plated steel



PRODUCT CODE	CONNECTIONS A	FLOW RATE [m³/h]	FLOW RATE [l/min]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
R153CX003	G 1/2" F	1,27	21,16	49	34	83	35	48
R153CX004	G 3/4" F	2,27	37,83	50	34	88	36,5	51,5



R158A-1

Thermal balancing valve

R158A-1 is used in domestic hot water distribution circuits to ensure that all sections are kept at the correct temperature and to balance the re-circulation network in order to avoid non-uniform temperature distribution. The thermostatic regulator, installed on each branch of the recirculation circuit, automatically maintains the set temperature, granting the benefits of an anti-legionella treatment. This device regulates the flow from the hot water calorifier and it is equipped with an adjusting knob to set the temperature and a temperature gauge in order to check any variance of the temperature.

MAIN FEATURES AND MATERIALS

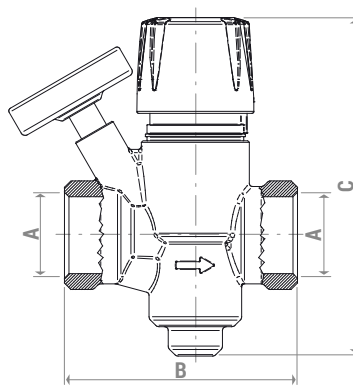
- Fluid of use: domestic water
- Max. inlet temperature: 90 °C
- Temperature setting range: 40÷65 °C
- Temperature stability: ±2 °C
- Max working pressure: 16 bar

MATERIALS

- Body: EN 12165 CW625N brass
- Spring: Stainless steel AISI 302
- Internal seals: EPDM Perox

VALVE

- Body: UNI EN 12165 CW25N



PRODUCT CODE	CONNECTIONS A	B [mm]	C [mm]
R158AY013	G 1/2"F	70	113
R158AY014	G 3/4"F	70	113



Fire Protection Catalogue

Discover all Fire Protection products by browsing the dedicated catalogue



Fire Protection Virtual Showroom

Digital showroom dedicated to Giacomini Fire Protection solutions. Discover the complete Fire range: technology, safety, and reliability in a single digital experience.



www.giacomini.com



Index

CODE		PAGE
R280KC	Fan coils valves kit, "Premium" version	11-12
R280KL	Fan coils valves kit, "Standard" version	13-14
R225E	Differential pressure gauge	14
R206AFL	Pressure independent control valve PICV, flanged connections	15
R206A	Pressure independent control valve (PICV)	16-17-18
R206B	Static balancing valve	19
R206C	Differential pressure controller	20
R206C-1	Compact differential pressure controller	21
R206BFL	Static balancing valve, flanged connections	22
R206CFL	Differential pressure control valve DPCV	23
R850	Ball valve, female-female connections	25
R851	Ball valve, female-female connections	26
R854	Ball valve, female-male connections	27
R850U	Valve for water for HVAC systems	28
A830	Ball valve, full port, DZR low lead	29
A730	Ball valve, full port, DZR	30
A250	Ball valve, standard port, DZR	31
R74A	Y filter	32
R74M	Magnetic Y filter	33
P74M-1	Magnet with steel coating	33
R701F	Ball valve with built-in filter, full port	34
R623	Dual-check backflow preventer	35
R624	Backflow preventer	35
R626 - R626FL	Backflow preventer with controllable reduced pressure zone	36
R60	Disc check valve	37
N5	Clapper check valve	38
N6	Clapper check valve	38
R88E	Compact automatic air vent	39
R89	High-performance automatic air vent	39
R87	Boiler room air separator	40
R87FL	Boiler room air separator with flanged connections	41
R276	2-way zone valve	42
R276B	2-way zone valves with K272 actuator and insulation	43
R297 - R297FL	3-way sector mixing valves	44-45

CODE		PAGE
R274 - R274N	6-way zone valves	46-47
R473	Thermo-electric actuator, normally closed, Clip Clap connection	48
R473M	Thermo-electric actuator, normally closed, with microswitch, Clip Clap connection	48
R473E	Thermo-electric actuator, normally closed	48
R473HE	Thermo-electric actuator, normally closed, M30 x 1,5 mm connection	48
K270	Actuator for R276, R277, R278, R279, R279D valves	48
K270-1	Fast acting actuator for R279B valves and R586HPI hydronic unit for heat pump	49
K270-2	Fast acting actuator for R279D valves	49
K272	Actuator for R276, R276B, R277, R278, R279, R279D valves, with knob for manual operation	49
K274	Actuator for R295, R296 mixing valves	49
K274-1	Actuator for sector mixing valves of R586RFL units	49
K275-1	Actuator for R296, R297, R297FL, R274N, R274C, R586R	50
K281	Actuator for R298, R298N valves	50
K281-1	Actuator for R206A (DN15, DN20, DN25) valves and R280KC fan coil kit	50
K281-2	Actuator for R206A (DN50) valves	50
R146M - R146MFL	Magnetic dirt separators	51
R146D - R146DFL	Dirt separators	52
R146I - R146IFL	Hydraulic separators	53
R146IM - R146IMFL	Magnetic hydraulic separator with threaded connections	54
R55	Gate valve with female threads.	55
R59FL	LUG type butterfly valve	56-57
R59W	Wafer type butterfly valve	58-59
R740FL	Full bore ball valve	60
R55FL	Gate valve	61
R60W	Brass body disc type check valve	62
R74FL	Strainer with stainless steel screen	63
R156-2	Thermostatic mixer, tail pieces male connections	64
R156 - R156-1	Thermostatic mixer for domestic water systems	65
R153M	Diaphragm pressure reducer, PN25	66
R153P	Piston pressure reducer, PN25	67
R153C	Piston pressure reducer, PN16	68
R158A-1	Thermal balancing valve	69





FOLLOW US





Unique Home



Residential Plus



Total Commercial



Consulting



GIACOMINI S.P.A.
VIA PER ALZO, 39
28017 SAN MAURIZIO D'OPAGLIO
NOVARA ITALY

