

FERRO®



INSTALLATION
AND HEATING
TECHNIQUE

CATALOGUE 2023

Welcome to the world of FERRO

The FERRO Group is one of the largest manufacturers of sanitary and plumbing fixtures in Central and Eastern Europe with nearly 30 years of experience in the industry. Thanks to its commitment to high product quality and its mission to meet customer needs for a safe and well-functioning home, Ferro products are present in millions of places. Every year we introduce new products to the market, which better and better meet the expectations of even the most demanding customers.

Quality under scrutiny

FERRO takes care of the excellent quality of its products. The company puts particular emphasis on meeting the requirements of the applicable standards, maintaining high technical parameters, safety and functionality of products. All the company's products are subject to extremely accurate and restrictive quality verification procedures. They are inspected on every production stand. The correct course of quality control processes is supervised by highly qualified engineers responsible for quality and product certification. The auditors check compliance with the procedures of the quality assurance system. These include the procedures specified by Polish PN and European PN-EN series standards and the procedures related to the Quality Management System.

The Group's headquarters, warehouse and logistics centre is located in Skawina. The Group, whose parent company is FERRO S.A. also includes the Group:

- FERRO S.A. Poland
- FERRO International Sp. z o.o. Poland
- NOVASERVIS spol. s.r.o. Czech Republic
- NOVASERVIS FERRO Group SRL Romania, Moldova
- NOVASERVIS FERRO SK s.r.o. Slovakia
- FERRO HUNGARY KFT Hungary
- NOVASERVIS FERRO Bulgaria Ltd. Bulgaria
- FERRO BALTIKS UAB Latvia, Lithuania, Estonia
- FERRO ADRIATICA Croatia, North Macedonia, Bosnia and Herzegovina, Montenegro, Slovenia
- TERMET S.A. Poland
- TESTER Sp. z o.o. Poland

Pictograms and function markings



Product warranty period expressed in years. The number placed in this sign informs about the warranty years for the product.



Nickel FREE
All product elements which may have contact with potable water are not covered with nickel.



Individual packaging
Product in individual packaging with a barcode for retail sale.

PARAMETERS



Pressure



Maximum temperature



Minimum temperature



Full flow valve

USED MATERIALS



CW617N-4MS brass
the latest hygienic standard



AISI304 Stainless steel



CW 617N brass

MEDIA VALVES



Water



Glycol



Gas



Compressed air

PIPING



Copper pipes



Homogeneous pipes



Multilayer pipes

Trustworthy solutions

The range of products available for installation is very wide on the market. It is important to me is that the products I install are of good quality and the offer is complementary, which guarantees a long life of the installation. I chose the FERRO brand because it meets all these conditions.



CATALOGUE

2023

INSTALLATION AND HEATING TECHNIQUE

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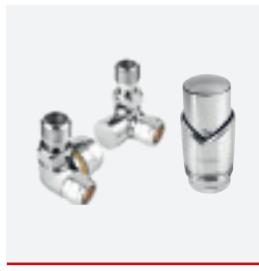
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Complete FERRO system

The complementarity of FERRO products guarantees the consistency of the solution in terms of price effectiveness, purchase consolidation as well as comprehensive service and investment support.



Thermostatic decorative sets
A wide range of fittings and radiator thermostats, including decorative sets in many colours. Regardless of the type, size and colour of the radiators, you can easily equip your heating system with the necessary control devices.

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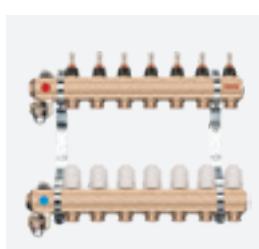
Mixing groups
are an indispensable element of equipment for surface heating systems, including floor heating. There are several models on offer, dedicated to radiators of different sizes and parameters.

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Manifold cabinets
enable aesthetic installation of manifolds and their accessories. Ferro offers a wide range of flush and surface-mounted cabinets in various lengths, depths and heights as well as models with adjustable dimensions.

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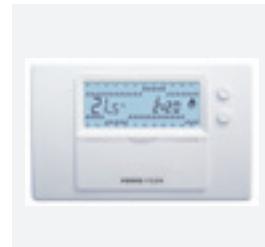
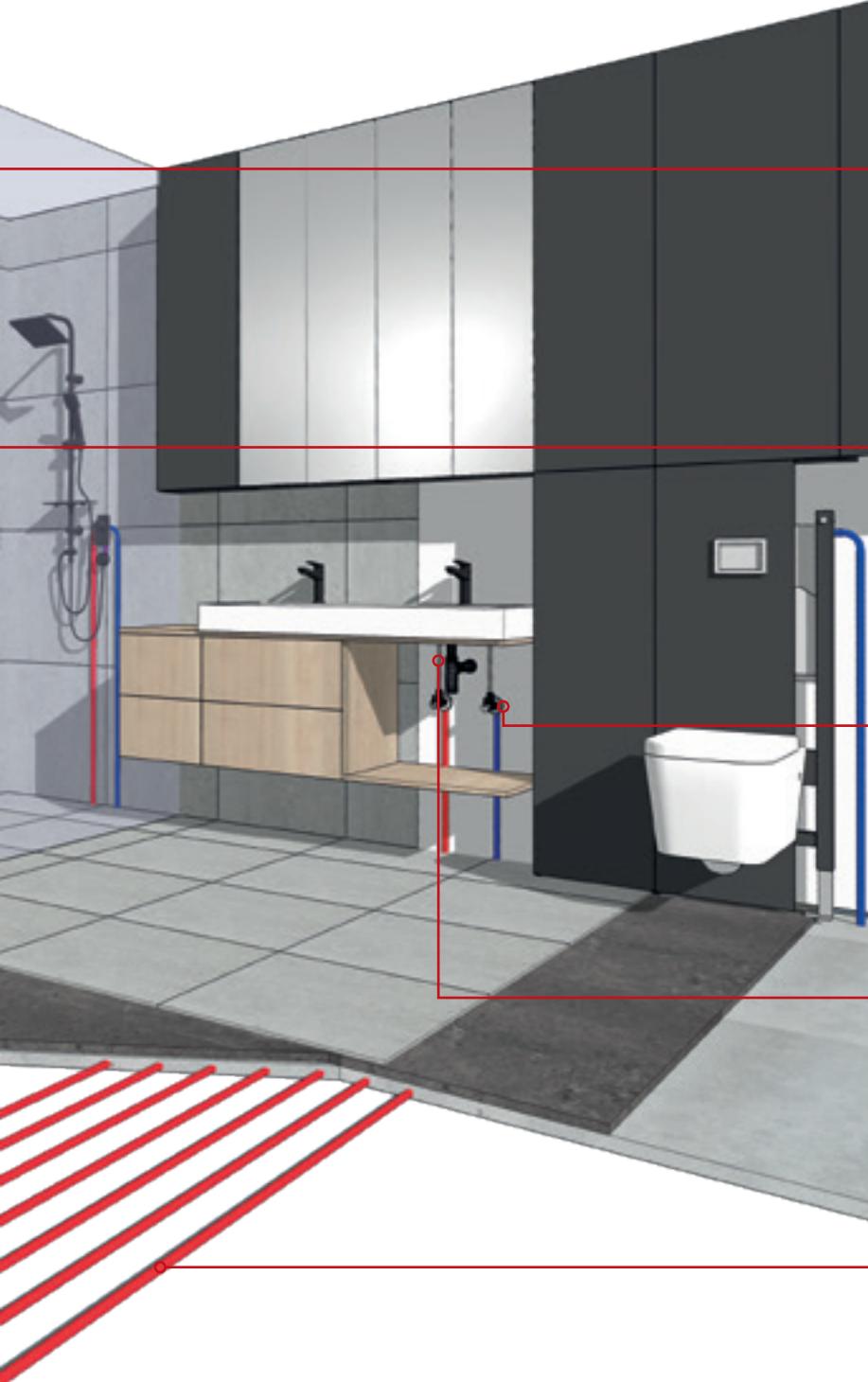


Manifolds
are indispensable devices in every modern radiator system, both with classic convection radiators and surface radiators, including floor radiators. The offer includes models with various equipping and outfitting adjusted to all practically encountered installation solutions.

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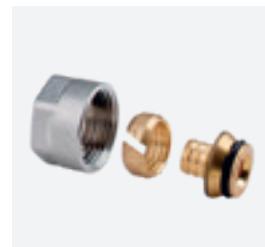


The FERRO system is an opportunity to fully realize your endeavour based on proven FERRO high quality components. Complementarity of the offer shall undoubtedly save time and guarantee reliability, harmony and functionality of the solution.



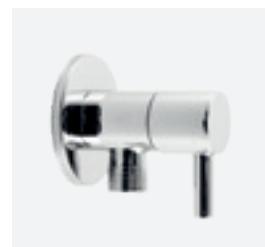
Room regulator
enables measurement and regulation of room temperature and setting of work schedules. Ferro offers both daily and weekly regulators.

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Connectors
Ferro's broad spectrum of fittings for different types of installations includes fittings for homogeneous and multilayer plastic pipes as well as steel and copper pipes.

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Angle valves
enable connection of household appliances such as washing machines, dishwashers, faucets/mixers, toilets, etc. FERRO offers a wide range of many models which differ in style, purpose and functionality.

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Connection hoses
are an indispensable element wherever there is a need for flexible connection of installation elements. We offer hoses in a wide range of lengths, types and diameters.

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PEX System Surface heating and plumbing
A multilayer, flexible pipe designed for heating systems, hot water, cold water and compressed air installations.

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Welcome to the world FERRO GROUP

The FERRO Group is one of the largest manufacturers of sanitary and plumbing fixtures in Central and Eastern Europe with nearly 30 years of experience in the industry. Thanks to its commitment to high product quality and its mission to meet customer needs for a safe and well-functioning home, Ferro products are present in millions of places. Every year we introduce new products to the market, which ever better meet the expectations of even the most demanding customers.

The vision, mission and values set the direction in which we are going, inspire us in our daily work, define our way of functioning and approach to customers, employees, business partners and shareholders.

A good understanding of individual markets and their needs has enabled us to gain the trust of our customers and dynamic international expansion. Consistent investment in modern technologies based on the philosophy of sustainable development makes us offer attractive design and quality products for many market segments. As Ferro Group, we desire to develop a leading position in the field of bathroom and kitchen solutions and offer professional installation systems. We want to accompany our customers at every stage of contact with the product - from inspiration, through efficient delivery, to failure-free use.

The FERRO Group maintains its position as market leader thanks to its numerous advantages and market advantages.



Stable and secure position of the company

The Group owns several product brands, including Ferro, Metalia and Titania, which gives it a significant competitive advantage and ensures a strong market position. FERRO cares about maintaining standards of operation and continuous development of the range of high quality products, which allows to maintain a wide range of customers, increase confidence in the brand and maintain a stable market position.



Large-scale operations

In addition to its activities in Poland, the FERRO Group offers its products in Europe and on numerous foreign markets, becoming one of the largest manufacturers of sanitary and plumbing fixtures in Central and Eastern Europe. Our products are produced at the Czech factory NOVASERVIS in Znojmo as well as several other factories in Europe and Asia.



High quality of products

The FERRO Group is constantly striving to achieve the best possible quality parameters. FERRO places particular emphasis on meeting the requirements of the applicable standards, maintaining high technical parameters, safety and functionality of its products. This is emphasized by the fact that the FERRO Group has implemented the ISO 9001:2008 Quality Management System. Thanks to special attention to quality, our company has been repeatedly awarded and honoured for the high quality of products by the environment and industry institutions and reputable industry magazines.



Exceptional team

Our company and its success is made up of People, considered to be the most valuable asset of the Group. FERRO's organizational culture is created by people with passion and open-mindedness, which is why we employ exceptional employees and ensure their continuous development.



Ferro Group's activities on the European market are performed by local distribution companies and local sales force

Thanks to this, the company perfectly recognizes the needs of the market and adapts its activities to the local specifics. The flexibility and local activity, combined with the global opportunities offered by the Group, make Ferro Group today the leader in the sanitary and heating technology sector in Europe. Consistent implementation of the vision of international development results in an increasing expansion of Ferro Group into new markets.

The history of the FERRO Group since its foundation is connected with the south of Kraków, for many years the company's headquarters have been located in Skawina, a town near Kraków. The strength of the Ferro brand is the excellent quality of the products manufactured in the Czech factory on the basis of the European standards of technology and work organization, as well as the constantly updated and extended assortment comprising several thousand unique products offered in 25 categories: from bathroom and kitchen mixers and sinks, to water and measurement fittings, radiators, pumps and heating controls, and from 2021 also gas boilers, provided to both individual customers and institutional recipients - developers, property managers, tenants.

Our brands

We listen to the needs of our customers and create for them high quality products under brands: Ferro, Nobless, Metalia and Titania. Each brand responds to the needs of different groups of customers, and all of them have been created to facilitate everyday life and guarantee safe, comfortable and functional interiors of every house.

Product brands belonging to the FERRO Group

FERRO®

NOBLESS

METALIA—

TITANIA

FERRO Group companies

- **FERRO S.A.** Poland
- **FERRO International Sp. z o.o.** Poland
- **NOVASERVIS spol. s.r.o.** Czech Republic
- **NOVASERVIS FERRO Group SRL** Romania, Moldova
- **NOVASERVIS FERRO SK s.r.o.** Slovakia
- **FERRO HUNGARY KFT** Hungary
- **NOVASERVIS FERRO Bulgaria Ltd.** Bulgaria
- **FERRO BALTIKS UAB** Latvia, Lithuania, Estonia
- **FERRO ADRIATICA** Croatia, North Macedonia, Bosnia and Herzegovina, Montenegro, Slovenia
- **TERMET S.A.** Poland
- **TESTER Sp. z o.o.** Poland



FERRO headquarters in Skawina



Production plant and logistics centre in Znojmo (Czech Republic)

The global brand

FERRO
GROUP

Group brands CZ/SK

novaservis
FERRO GROUP

Proven in action

Our products are regularly awarded and honoured for their robust quality and high standard of workmanship. Many of them have won valuable distinctions granted by the environment and industry institutions and reputable interior design, construction and financial magazines.

The FERRO Group places particular emphasis on meeting the requirements of current standards, maintaining high technical parameters, safety and functionality of its products. That is why we have implemented the ISO 9001:2015 Quality Management System.



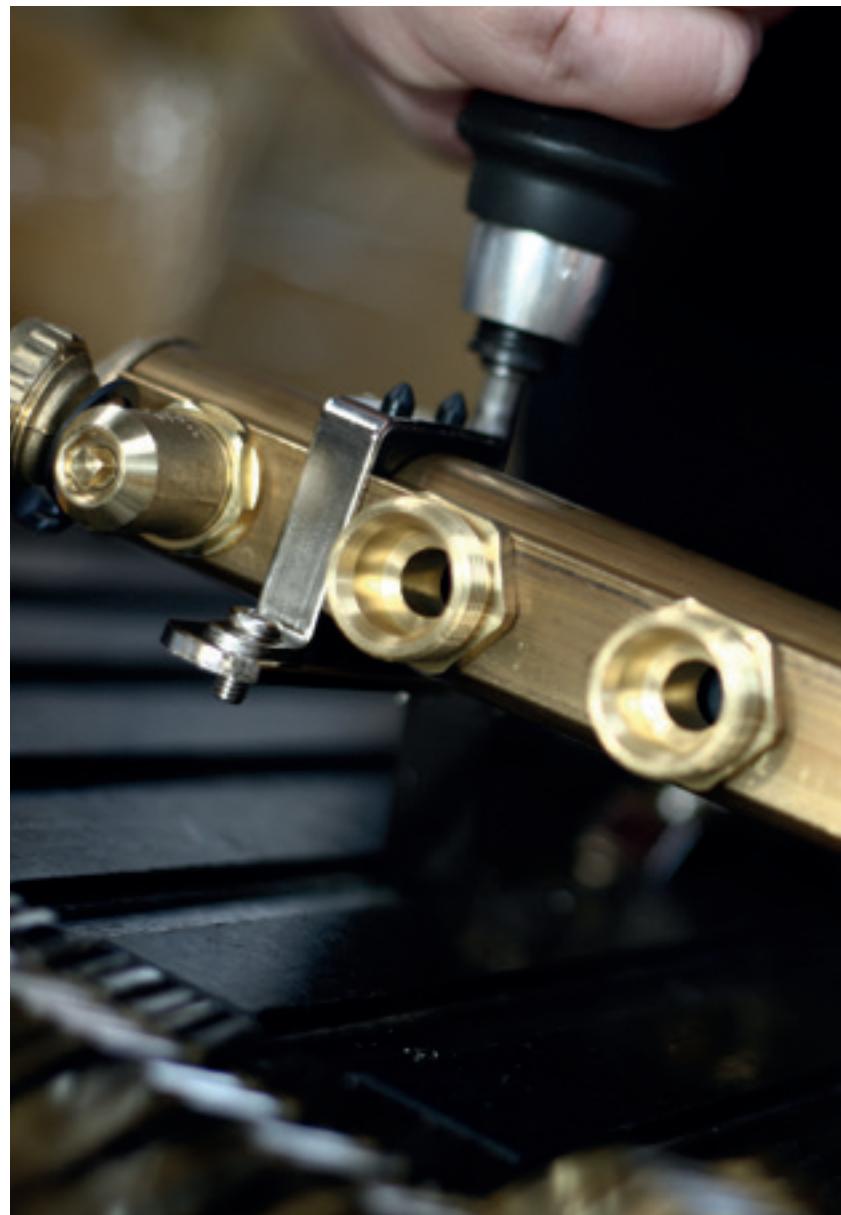
RELIABLE TECHNOLOGY AND
EUROPEAN STANDARDS



What matters is the details

At every stage of production, FERRO attaches great importance to details, both in terms of their perfect execution and finish. Thanks to this, every product of the company is characterized by the highest quality and impeccable appearance.

QUALITY CONTROL AND PAYING ATTENTION TO DETAIL



QUALITY UNDER SCRUTINY

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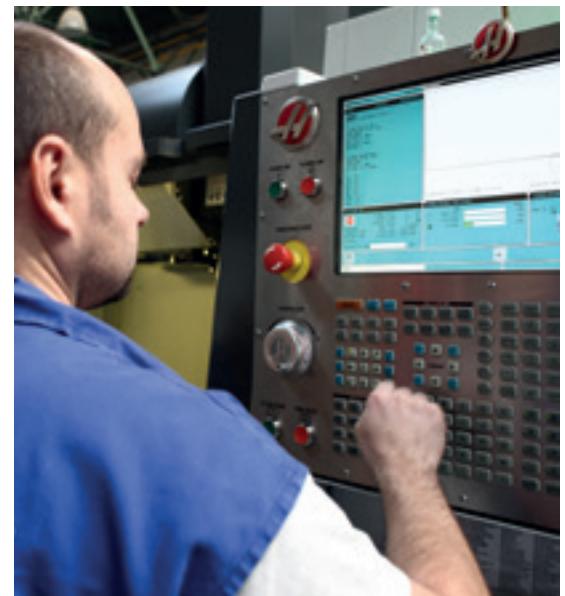


Production process

FERRO's production is carried out in several modern factories around the world based on the highest quality raw materials and components from reliable suppliers from Europe and Asia.

We have our own production plant in Znojmo (Czech Republic) with a modern logistics centre. This, combined with our location in the heart of Europe, ensures efficient and effective distribution between the Group companies and to the various European and global markets. Before leaving the factories, all products undergo a meticulous quality control, which ensures that our customers receive a proven, reliable product that provides many years of comfortable operation.

The factory in Znojmo has a modern CNC machining plant, its own glassworks, assembly line, electroplating line, as well as faucet folding and polishing stations. The plant has almost 40 years of production tradition. Today not only faucets are manufactured there, but also bathroom accessories, bathroom fittings and brass distributors. The plant also boasts a fully automated chrome-plating plant with closed water circulation, adapted to the latest environmental requirements.



Experience and passion

Our company and its success is created by people who constitute the most valuable asset of the Group. FERRO's organizational culture is created by people with passion and open-mindedness, which is why we employ exceptional employees and ensure their continuous development. We believe that an appropriate incentive system, good working conditions and team partnership help to work effectively, develop employees and influence the further development of the company. In our daily activities we are guided by values that allow us to build an extraordinary working atmosphere.

WE WORK WITH EXTRAORDINARY PEOPLE BECAUSE IT IS THANKS TO THEM THAT WE ACHIEVE EXTRAORDINARY RESULTS.



PEOPLE

Our team consists of almost half a thousand people from all over Europe. The experience of our long-time employees is complemented by a fresh look of these younger ones, thanks to which we realize creative ideas and implement innovative solutions together. And, together we create an energetic, efficient organization that values teamwork, mutual respect and continuous improvement.

Valve characteristics

Type of valve	Thread type	Nominal pressure	Max. working temperature	Full passage in compliance with standards	Gland to compensate for clearance	Working agent	PZH certificate	Guarantee
F-POWER	G	3,0 MPa (30 bar)	120°C	yes	yes	(H ₂ O) (GLYCOL 50%) (AIR)	yes	10 years
F-COMFORT	G	2,0 MPa (20 bar)	100°C	reduced	yes	(H ₂ O)	yes	5 years
HERKULES	Rp, R	4,0 MPa (40 bar)	140°C	yes	yes	(H ₂ O) (GLYCOL 50%) (AIR)	yes	15 years

Thread types

Thread	Sketch	Description	In compliance with norms	Compatibility	Seal
G		Cylindrical pipe thread joints with tightness not obtained on the thread	ISO 228	Male thread G can only be screwed into female thread G	Sealing by pressing down on two flat surfaces and an additional seal or on a 60° cone
Rp		Cylindrical pipe thread internal connections with the tightness achieved on the thread	ISO 7	Only the male thread Rp can be screwed into the female thread Rp	Sealing on the thread, e.g. with PTFE tape or thread
R		Tapered pipe thread external connections to the tightness achieved on the thread	ISO 7	Male thread R can be screwed into female thread G or Rp	

Hydraulic fittings

VALVES



BALL VALVES - F-POWER
14



BALL VALVES - F-COMFORT
22



BALL VALVES - HERKULES
28



BALL VALVES - OTHER
31



OTHER WATER VALVES
37

NEW



ANGLE VALVES
44

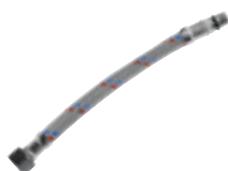


**HYDRAULIC FITTINGS
FOR SOLDERING**
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CONNECTORS



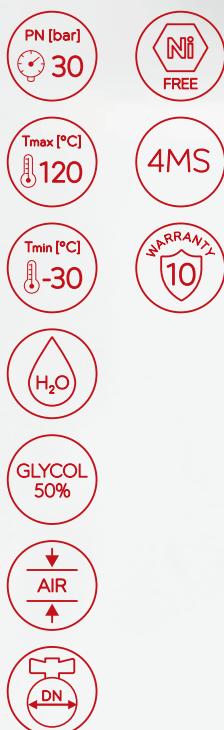
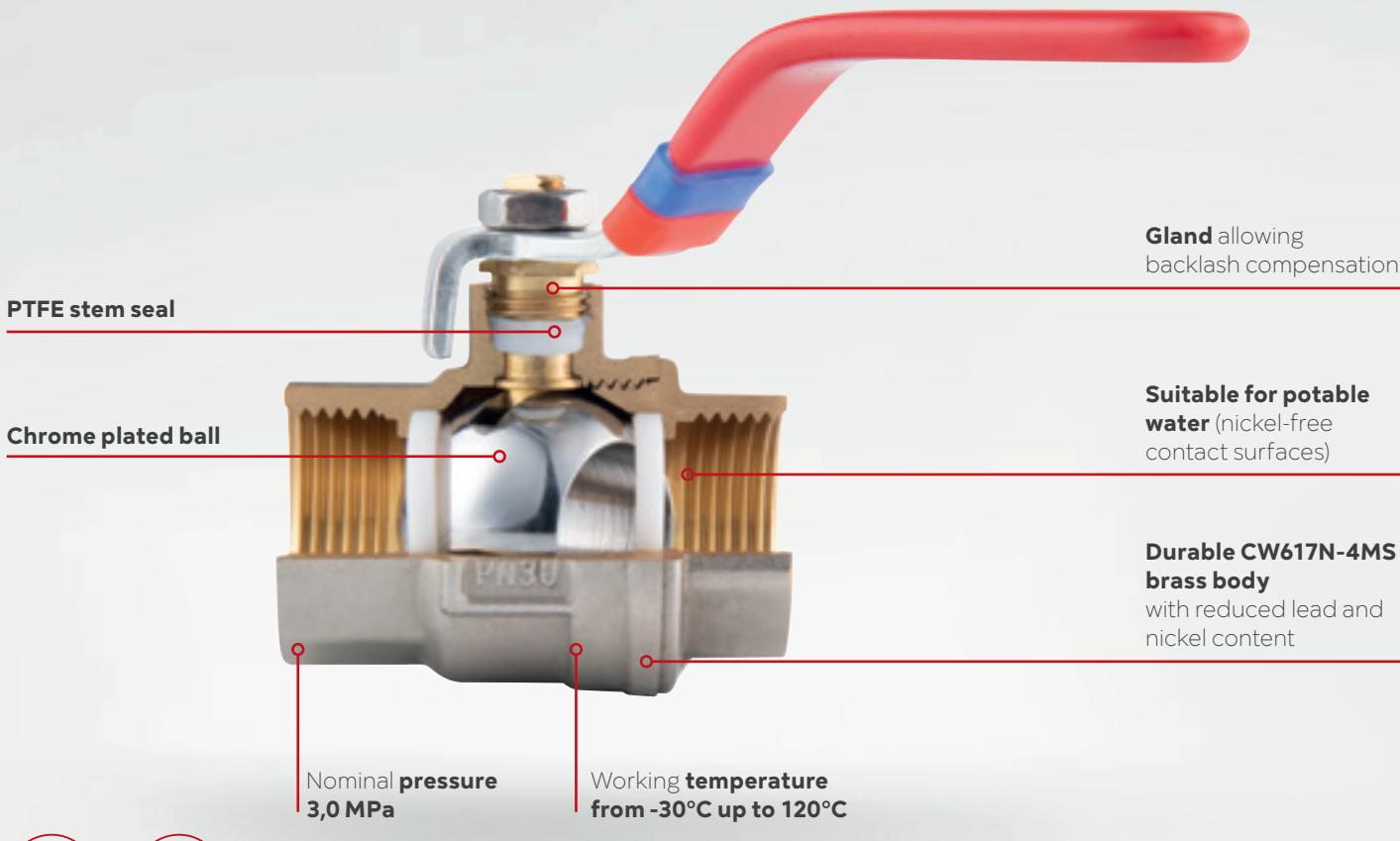
**CONNECTORS
FOR SOLDERING**
48



**CONNECTION
HOSES**
51

F-Power

- ball valves



Advantages

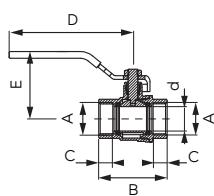
- warranty: 10 years
- valve bore without any constriction affecting the flow, full port according to standard
- valves are adapted to potable water - surface, which may have contact with potable water (inside the valve and connection threads) is not nickel plated
- solid metal handle
- the gland on the stem allows compensation of possible clearance by means of a simple wrench
- chrome plated and polished ball resistant to blocking
- thick walls and solid workmanship - increased durability and strength
- quality control carried out strictly according to applicable European standards
- 100% of the valves produced are tested for leakage
- valve's bodies have permanent markings required by the European standards
- valves have removable rubber bands to identify installation on the hot water/supply or cold/return pipe and labels with EAN codes and the necessary data to facilitate retail sales
- the use of the highest quality materials, care for solid workmanship, the use of modern technologies and multi-stage quality control have resulted in the new F-Power line being awarded the Quality International 2021 Gold Emblem

Operating parameters and scope of application:

- nominal pressure: 3.0 MPa (30 bar)
- nominal working temperature: min -30°C, max. 120°C
- working media: water (water supply systems and central heating), max. 50% glycol solution in water, compressed air
- ball valves have received a National Technical Assessment Certificate issued by the Building Research Institute in Warsaw stating suitability for use in construction and Hygienic Certificate issued by the National Institute of Hygiene in Warsaw

Workmanship and materials

- valves are made in ABT (Advanced Body Technology) technology, combining advanced design and material solutions
- body material: CW617N-4MS brass - the newest hygiene standard
- ball finish: chrome plated, polished
- ball sealing: PTFE
- stem sealing: PTFE
- stable and safe seating of the stem due to assembly from the inside of the valve



Description

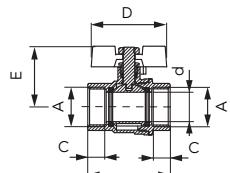
F-Power ball valve

- female-female
- full bore
- with gland
- handle: metal lever
- body material: brass
- ball material: brass (DN10 - DN50), stainless steel (DN65 - DN100)
- material of ball and stem seals: PTFE
- nominal pressure DN10 - DN50: 30 bar (PN30)
- nominal pressure DN65 - DN100: 25 bar (PN25)
- maximum working temperature: 120°C
- minimum working temperature: -30°C



Packaging

DN	A	d [mm]	C [mm]	B [mm]	E [mm]	D [mm]	K _{vs} [m ³ /h]	Index	individual	bulk
10	G3/8	10	9	43	45	94	4,33	KFP10	20 pcs	120 pcs
15	G1/2	15	10,5	50,5	48,5	96	7,86	KFP1	12 pcs	120 pcs
20	G3/4	20	11	56	55	101,5	15,60	KFP2	10 pcs	80 pcs
25	G1	25	13	66,5	65,5	116,5	24,13	KFP3	8 pcs	48 pcs
32	G1 1/4	32	14	79	70,5	116,5	44,97	KFP4	8 pcs	32 pcs
40	G1 1/2	40	14,5	90	74	126,5	66,94	KFP5	4 pcs	24 pcs
50	G2	50	16	104	90,5	151,5	105,65	KFP6	2 pcs	12 pcs
65	G2 1/2	65	24	141	123,5	242	-	KFP7	1 pcs	4 pcs
80	G3	80	24	160	135,5	242	-	KFP8	1 pcs	4 pcs
100	G4	98	28	192	149	267	-	KFP9	1 pcs	2 pcs



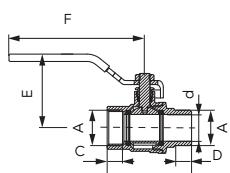
F-Power ball valve

- female-female
- full bore
- with gland
- handle: butterfly
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure 30 bar (PN30)
- maximum working temperature: 120°C
- minimum working temperature: -30°C



Packaging

DN	A	d [mm]	C [mm]	B [mm]	E [mm]	D [mm]	K _{vs} [m ³ /h]	Index	individual	bulk
10	G3/8	10	9	43	34	51,3	4,33	KFPM10	12 pcs	120 pcs
15	G1/2	15	10,5	50,5	37,9	51,3	7,86	KFPM1	15 pcs	150 pcs
20	G3/4	20	11	56	41,3	51,3	14,80	KFPM2	12 pcs	96 pcs
25	G1	25	13	66,5	47,4	65	24,13	KFPM3	10 pcs	50 pcs
32	G1 1/4	32	14	79	63,7	88	42,58	KFPM4	6 pcs	24 pcs



F-Power ball valve

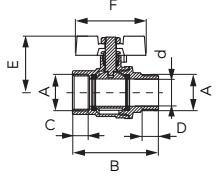
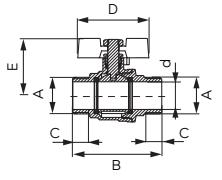
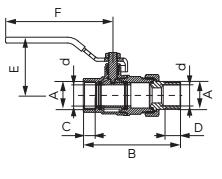
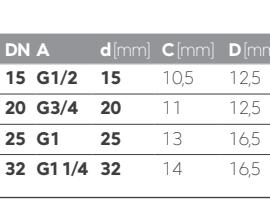
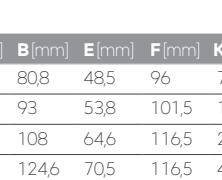
- female-male
- full bore
- with gland
- handle: metal lever
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure 30 bar (PN30)
- maximum working temperature: 120°C
- minimum working temperature: -30°C

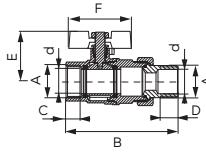
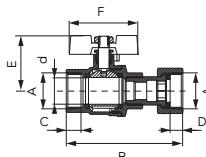
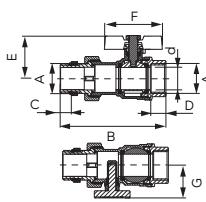


Packaging

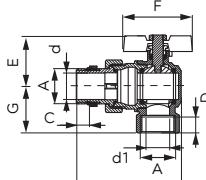
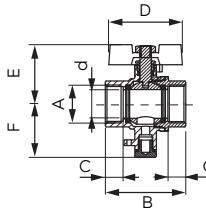
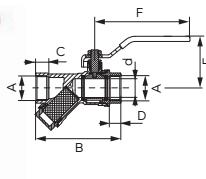
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10	G3/8	10	9	10,5	53,5	45	94	4,21	KFP101	10 pcs	120 pcs
15	G1/2	15	10,5	11	58,5	48,5	96	7,06	KFP11	10 pcs	100 pcs
20	G3/4	20	11	11,5	63	54	101,5	14,80	KFP21	10 pcs	80 pcs
25	G1	25	13	13,5	75,5	65,5	116,5	23,11	KFP31	10 pcs	40 pcs
32	G1 1/4	32	14	18,5	93	70,5	116,5	42,01	KFP41	6 pcs	24 pcs
40	G1 1/2	40	14,5	18	101	74	126,5	66,14	KFP51	4 pcs	16 pcs
50	G2	50	16	20,5	120,5	90,5	151,5	-	KFP61	2 pcs	12 pcs

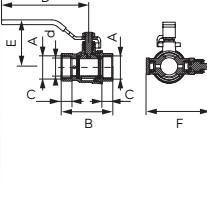
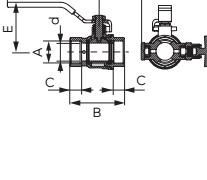
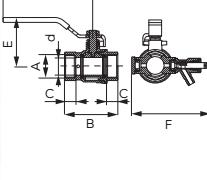
BALL VALVES - F-POWER

Description											
DN	A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	$K_{vs} [\text{m}^3/\text{h}]$	Index	Packaging	
										EAN	individual
10	G3/8	10	9	10,5	53,5	34	51,3	4,33	KFPM101	12 pcs	120 pcs
15	G1/2	15	10,5	11	58,5	37,9	51,3	7,29	KFPM11	15 pcs	90 pcs
20	G3/4	20	11	11,5	63	41,3	51,3	14,80	KFPM21	12 pcs	96 pcs
25	G1	25	13	13,5	75,5	47,4	65	23,11	KFPM31	10 pcs	50 pcs
32	G1 1/4	32	14	18,5	93	63,7	88	42,58	KFPM41	6 pcs	24 pcs
  											
F-Power ball valve <ul style="list-style-type: none"> female-male full bore with gland handle: butterfly body and ball material: brass material of ball and stem seals: PTFE nominal pressure 30 bar (PN30) maximum working temperature: 120°C minimum working temperature: -30°C 											
DN	A	d [mm]	C [mm]	B [mm]	E [mm]	D [mm]	F [mm]	$K_{vs} [\text{m}^3/\text{h}]$	Index	Packaging	
										EAN	individual
15	G1/2	15	11	59,5	37,9	51,3	6,94	KFPN1	15 pcs	90 pcs	
20	G3/4	20	11,5	64,5	41,3	51,3	15,71	KFPN2	12 pcs	96 pcs	
25	G1	25	13,5	77	47,4	65	22,31	KFPN3	10 pcs	50 pcs	
  											
F-Power ball valve <ul style="list-style-type: none"> male-male full bore with gland handle: butterfly body and ball material: brass material of ball and stem seals: PTFE nominal pressure 30 bar (PN30) maximum working temperature: 120°C minimum working temperature: -30°C 											
DN	A	d [mm]	C [mm]	B [mm]	E [mm]	D [mm]	F [mm]	$K_{vs} [\text{m}^3/\text{h}]$	Index	Packaging	
										EAN	individual
15	G1/2	15	11	59,5	37,9	51,3	6,94	KFPN1	15 pcs	90 pcs	
20	G3/4	20	11,5	64,5	41,3	51,3	15,71	KFPN2	12 pcs	96 pcs	
25	G1	25	13,5	77	47,4	65	22,31	KFPN3	10 pcs	50 pcs	
  											
F-Power ball valve <ul style="list-style-type: none"> female-male with union full bore with gland handle: metal lever body and ball material: brass material of ball and stem seals: PTFE nominal pressure 30 bar (PN30) maximum working temperature: 120°C minimum working temperature: -30°C 											
DN	A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	$K_{vs} [\text{m}^3/\text{h}]$	Index	Packaging	
										EAN	individual
15	G1/2	15	10,5	12,5	80,8	48,5	96	7,29	KFPS11	8 pcs	80 pcs
20	G3/4	20	11	12,5	93	53,8	101,5	14,80	KFPS21	6 pcs	48 pcs
25	G1	25	13	16,5	108	64,6	116,5	22,43	KFPS31	4 pcs	20 pcs
32	G1 1/4	32	14	16,5	124,6	70,5	116,5	41,10	KFPS41	2 pcs	12 pcs
  											

Description																																																											
Packaging																																																											
   <p>F-Power ball valve</p> <ul style="list-style-type: none"> female-male with union full bore with gland handle: butterfly body and ball material: brass material of ball and stem seals: PTFE nominal pressure 30 bar (PN30) maximum working temperature: 120°C minimum working temperature: -30°C 																																																											
																																																											
<table border="1"> <thead> <tr> <th>DN</th><th>A</th><th>d [mm]</th><th>C [mm]</th><th>D [mm]</th><th>B [mm]</th><th>E [mm]</th><th>F [mm]</th><th>K_{vs} [m³/h]</th><th>Index</th></tr> </thead> <tbody> <tr> <td>15</td><td>G1/2</td><td>15</td><td>12,5</td><td>12</td><td>79,5</td><td>37,9</td><td>51,3</td><td>729</td><td>KFPS1</td></tr> <tr> <td>20</td><td>G3/4</td><td>20</td><td>14,5</td><td>12,5</td><td>92,1</td><td>41,3</td><td>51,3</td><td>13,55</td><td>KFPS2</td></tr> <tr> <td>25</td><td>G1</td><td>25</td><td>16,5</td><td>14,5</td><td>108</td><td>47,4</td><td>65</td><td>22,43</td><td>KFPS3</td></tr> <tr> <td>32</td><td>G1 1/4</td><td>32</td><td>18,5</td><td>15,5</td><td>124,6</td><td>63,7</td><td>88</td><td>40,98</td><td>KFPS4</td></tr> </tbody> </table>									DN	A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	K _{vs} [m ³ /h]	Index	15	G1/2	15	12,5	12	79,5	37,9	51,3	729	KFPS1	20	G3/4	20	14,5	12,5	92,1	41,3	51,3	13,55	KFPS2	25	G1	25	16,5	14,5	108	47,4	65	22,43	KFPS3	32	G1 1/4	32	18,5	15,5	124,6	63,7	88	40,98	KFPS4	
DN	A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	K _{vs} [m ³ /h]	Index																																																		
15	G1/2	15	12,5	12	79,5	37,9	51,3	729	KFPS1																																																		
20	G3/4	20	14,5	12,5	92,1	41,3	51,3	13,55	KFPS2																																																		
25	G1	25	16,5	14,5	108	47,4	65	22,43	KFPS3																																																		
32	G1 1/4	32	18,5	15,5	124,6	63,7	88	40,98	KFPS4																																																		
<p>individual</p> <p>bulk</p>																																																											
<p>10 pcs</p> <p>100 pcs</p>																																																											
<p>12 pcs</p> <p>48 pcs</p>																																																											
<p>6 pcs</p> <p>30 pcs</p>																																																											
<p>4 pcs</p> <p>16 pcs</p>																																																											
   <p>F-Power ball valve</p> <ul style="list-style-type: none"> female-female with half-union with gland handle: butterfly body and ball material: brass material of ball and stem seals: PTFE nominal pressure 16 bar (PN16) maximum working temperature: 120°C 																																																											
																																																											
<p>individual</p> <p>bulk</p>																																																											
<p>10 pcs</p> <p>100 pcs</p>																																																											
<p>6 pcs</p> <p>60 pcs</p>																																																											
   <p>F-Power ball valve with thermometer</p> <ul style="list-style-type: none"> female-male with union additional nut with a seal on the mounting thread with gland handle: butterfly body and ball material: brass material of ball and stem seals: PTFE nominal pressure 30 bar (PN30) maximum working temperature: 120°C 																																																											
																																																											
<p>individual</p> <p>bulk</p>																																																											
<p>4 pcs</p> <p>24 pcs</p>																																																											

BALL VALVES - F-POWER

Description																																																																	
Packaging																																																																	
   <p>F-Power angle ball valve</p> <ul style="list-style-type: none"> female-male with union additional nut with a seal on the mounting thread with gland handle: butterfly body and ball material: brass material of ball and stem seals: PTFE nominal pressure 30 bar (PN30) maximum working temperature: 120°C 																																																																	
																																																																	
<table border="1"> <thead> <tr> <th>DN</th><th>A</th><th>d [mm]</th><th>d1 [mm]</th><th>B [mm]</th><th>C [mm]</th><th>D [mm]</th><th>E [mm]</th><th>F [mm]</th><th>G [mm]</th><th>K_{vs} [m³/h]</th></tr> </thead> <tbody> <tr> <td>25</td><td>G1 25</td><td>22</td><td>99</td><td>12,5</td><td>16,5</td><td>47,6</td><td>65</td><td>44</td><td>10,93</td><td>KFPS3A</td></tr> </tbody> </table>											DN	A	d [mm]	d1 [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	K _{vs} [m ³ /h]	25	G1 25	22	99	12,5	16,5	47,6	65	44	10,93	KFPS3A																																	
DN	A	d [mm]	d1 [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	K _{vs} [m ³ /h]																																																							
25	G1 25	22	99	12,5	16,5	47,6	65	44	10,93	KFPS3A																																																							
<p>individual bulk</p> <p>2 pcs 20 pcs</p>																																																																	
   <p>F-Power ball valve with M10x1 connection for temperature sensor</p> <ul style="list-style-type: none"> female-female full bore with gland handle: butterfly body and ball material: brass material of ball and stem seals: PTFE nominal pressure 16 bar (PN16) maximum working temperature: 120°C 																																																																	
																																																																	
<table border="1"> <thead> <tr> <th>DN</th><th>A</th><th>d [mm]</th><th>C [mm]</th><th>D [mm]</th><th>B [mm]</th><th>E [mm]</th><th>F [mm]</th><th>K_{vs} [m³/h]</th><th>Index</th><th>Packaging</th></tr> </thead> <tbody> <tr> <td>15</td><td>G1/2</td><td>15</td><td>12</td><td>50,5</td><td>38</td><td>51,3</td><td>37,2</td><td>7,17</td><td>KFPMT1</td><td>individual bulk</td></tr> <tr> <td>20</td><td>G3/4</td><td>20</td><td>12,5</td><td>56,1</td><td>41,1</td><td>51,3</td><td>37,2</td><td>15,37</td><td>KFPMT2</td><td>12 pcs 120 pcs</td></tr> </tbody> </table>											DN	A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	K _{vs} [m ³ /h]	Index	Packaging	15	G1/2	15	12	50,5	38	51,3	37,2	7,17	KFPMT1	individual bulk	20	G3/4	20	12,5	56,1	41,1	51,3	37,2	15,37	KFPMT2	12 pcs 120 pcs																						
DN	A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	K _{vs} [m ³ /h]	Index	Packaging																																																							
15	G1/2	15	12	50,5	38	51,3	37,2	7,17	KFPMT1	individual bulk																																																							
20	G3/4	20	12,5	56,1	41,1	51,3	37,2	15,37	KFPMT2	12 pcs 120 pcs																																																							
<p>12 pcs 60 pcs</p>																																																																	
   <p>F-Power ball valve with filter</p> <ul style="list-style-type: none"> female-female with gland handle: metal lever body and ball material: brass material of ball and stem seals: PTFE material wkładu filtra: stainless steel nominal pressure 16 bar (PN16) maximum working temperature: 120°C 																																																																	
																																																																	
<table border="1"> <thead> <tr> <th>DN</th><th>A</th><th>d [mm]</th><th>C [mm]</th><th>D [mm]</th><th>B [mm]</th><th>E [mm]</th><th>F [mm]</th><th>K_{vs} [m³/h]</th><th>Index</th><th>Packaging</th></tr> </thead> <tbody> <tr> <td>15</td><td>G1/2</td><td>15</td><td>13</td><td>12</td><td>79</td><td>48,5</td><td>96</td><td>3,19</td><td>KFPZF1</td><td>individual bulk</td></tr> <tr> <td>20</td><td>G3/4</td><td>20</td><td>13</td><td>12,5</td><td>90,5</td><td>55</td><td>101,5</td><td>6,38</td><td>KFPZF2</td><td>8 pcs 40 pcs</td></tr> <tr> <td>25</td><td>G1</td><td>25</td><td>15</td><td>14,5</td><td>108</td><td>65,5</td><td>116,5</td><td>10,13</td><td>KFPZF3</td><td>10 40</td></tr> <tr> <td>32</td><td>G1 1/4</td><td>32</td><td>16</td><td>15,5</td><td>137</td><td>70,5</td><td>116,5</td><td>13,66</td><td>KFPZF4</td><td>4 32</td></tr> </tbody> </table>											DN	A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	K _{vs} [m ³ /h]	Index	Packaging	15	G1/2	15	13	12	79	48,5	96	3,19	KFPZF1	individual bulk	20	G3/4	20	13	12,5	90,5	55	101,5	6,38	KFPZF2	8 pcs 40 pcs	25	G1	25	15	14,5	108	65,5	116,5	10,13	KFPZF3	10 40	32	G1 1/4	32	16	15,5	137	70,5	116,5	13,66	KFPZF4	4 32
DN	A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	K _{vs} [m ³ /h]	Index	Packaging																																																							
15	G1/2	15	13	12	79	48,5	96	3,19	KFPZF1	individual bulk																																																							
20	G3/4	20	13	12,5	90,5	55	101,5	6,38	KFPZF2	8 pcs 40 pcs																																																							
25	G1	25	15	14,5	108	65,5	116,5	10,13	KFPZF3	10 40																																																							
32	G1 1/4	32	16	15,5	137	70,5	116,5	13,66	KFPZF4	4 32																																																							
<p>4 8</p>																																																																	

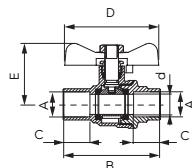
Description										
   <p>F-Power ball valve with manual air-vent and plug</p> <ul style="list-style-type: none"> female-female full bore with gland handle: metal lever body and ball material: brass material of ball and stem seals: PTFE nominal pressure 16 bar (PN16) maximum working temperature: 120°C 										
										
Packaging										
DN A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	K _{vs} [m ³ /h]	Index	individual	bulk
15 G1/2 15	15	12	54	48,5	96	68,5	7,51	KFPO1	6 pcs	48 pcs
20 G3/4 20	20	12,5	60	55	101,5	74,5	15,48	KFPO2	6 pcs	36 pcs
25 G1 25	25	14,5	70,5	65,5	116,5	80,5	22,65	KFPO3	4 pcs	24 pcs
32 G1 1/4 32	32	15,5	83	70,5	116,5	90,5	45,08	KFPO4	6 pcs	24 pcs
40 G1 1/2 40	40	16	93,5	74	126,5	98,5	58,40	KFPO5	2 pcs	12 pcs
50 G2 50	50	17,5	107,5	90,5	151,5	109,5	105,99	KFPO6	1 pcs	6 pcs
   <p>F-Power ball valve with manual air-vent and plug</p> <ul style="list-style-type: none"> female-female full bore with gland handle: metal lever body and ball material: brass material of ball and stem seals: PTFE nominal pressure 16 bar (PN16) maximum working temperature: 120°C 										
										
Packaging										
DN A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	K _{vs} [m ³ /h]	Index	individual	bulk
15 G1/2 15	15	12	54	48,5	96	71,3	7,51	KFPOM1	10 pcs	50 pcs
20 G3/4 20	20	12,5	60	55	101,5	77,3	15,48	KFPOM2	6 pcs	48 pcs
25 G1 25	25	14,5	70,5	65,5	116,5	83,3	22,65	KFPOM3	5 pcs	20 pcs
   <p>F-Power ball valve with drain, manual air-vent and plug</p> <ul style="list-style-type: none"> female-female full bore with gland handle: metal lever body and ball material: brass material of ball and stem seals: PTFE nominal pressure 16 bar (PN16) maximum working temperature: 120°C minimum working temperature: -30°C 										
										
Packaging										
DN A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	K _{vs} [m ³ /h]	Index	individual	bulk
15 G1/2 15	15	12	54	48,5	96	82,7	7,51	KFPW1	8 pcs	64 pcs
20 G3/4 20	20	12,5	60	55	101,5	88,7	12,41	KFPW2	6 pcs	48 pcs
25 G1 25	25	14,5	70,5	65,5	116,5	94,7	21,40	KFPW3	4 pcs	24 pcs
32 G1 1/4 32	32	15,5	83	70,5	116,5	104,7	41,21	KFPW4	2 pcs	16 pcs
40 G1 1/2 40	40	16	93,5	74	126,5	112,7	67,17	KFPW5	2 pcs	12 pcs
50 G2 50	50	17,5	107,5	90,5	151,5	123,7	-	KFPW6	2 pcs	8 pcs

BALL VALVES - F-POWER

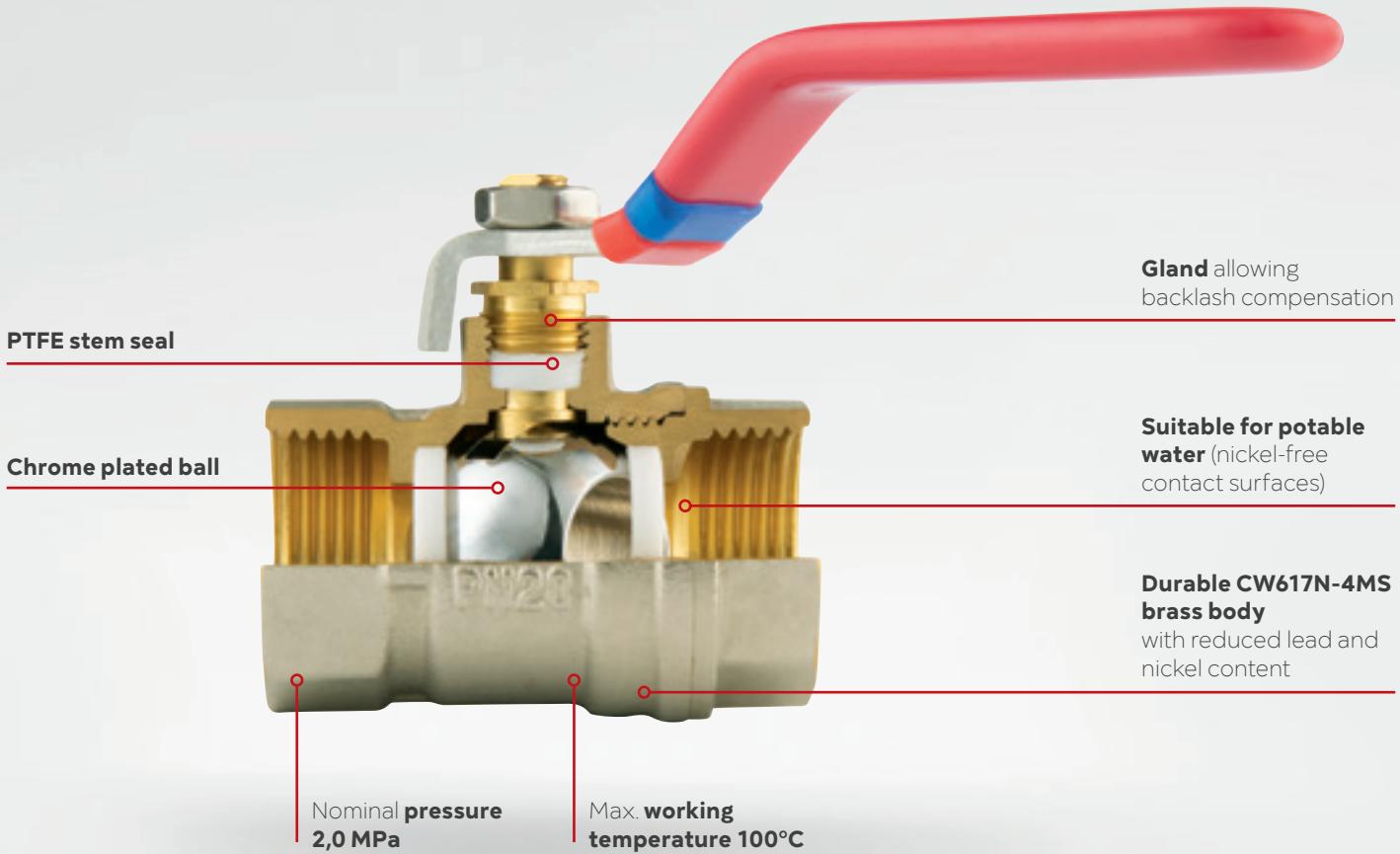
Description									
Image		Dimensions		Technical Data		Index		Packaging	
				<ul style="list-style-type: none"> • female-female • full bore • with knob and rosette • red and blue indication cap included • body and ball material: brass • material of ball seals: PTFE • material of stem seals: EPDM (3 pcs O-ring) • nominal pressure 16 bar (PN16) • maximum working temperature: 120°C 				F-Power concealed ball valve	
				<ul style="list-style-type: none"> • female-female • full bore • with knob and rosette • body and ball material: brass • material of ball seals: PTFE • material of stem seals: EPDM (3 pcs O-ring) • nominal pressure 16 bar (PN16) • maximum working temperature: 120°C 				F-Power concealed ball valve	
DN	A	d [mm]	C [mm]	B [mm]	E [mm]	D [mm]	K_{vs} [m³/h]	Index	
15	G1/2	15	12,5	57	78,8	45,3	7,29	KFP1P	
20	G3/4	20	15	66,5	82	45,3	14,00	KFP2P	
				<ul style="list-style-type: none"> • with gland • full bore • handle: metal lever • body and ball material: brass • material of ball and stem seals: PTFE • nominal pressure 16 bar (PN16) • maximum working temperature: 120°C 				F-Power ball valve for soldering	
DN	A	d [mm]	C [mm]	B [mm]	E [mm]	D [mm]	K_{vs} [m³/h]	Index	
15	G1/2	15	12,5	57	73,5	45	7,29	KFP1D	
20	G3/4	20	15	66,5	76,5	45	14,00	KFP2D	
				<ul style="list-style-type: none"> • with gland • full bore • handle: metal lever • body and ball material: brass • material of ball and stem seals: PTFE • nominal pressure 16 bar (PN16) • maximum working temperature: 120°C 				F-Power ball valve for soldering	
DN	A	d [mm]	C [mm]	B [mm]	E [mm]	D [mm]	K_{vs} [m³/h]	Index	
10	12	10	14	52	44	94	3,87	KFPL1*	
15	15	12	16	58	48	94	5,24	KFPL2	
15	18	15	16	60	50	94	6,83	KFPL3	
20	22	20	18	71	53	94	12,64	KFPL4	
25	28	25	21	83	59	99,5	24,36	KFPL5	
32	35	32	24	99	74	130	38,25	KFPL6	

* Available while stock lasts

Description									
DN	A	d [mm]	C [mm]	B [mm]	E [mm]	D [mm]	K _{vs} [m ³ /h]	Packaging	
								individual	bulk
10	12	10	14	52	33	56	387	KFPL11	20 pcs 200 pcs
15	15	12	16	58	36	56	5,24	KFPL21	15 pcs 150 pcs
15	18	15	16	60	38	56	6,83	KFPL31	16 pcs 96 pcs
20	22	20	18	71	42	56	12,64	KFPL41	12 pcs 60 pcs



F-Comfort - ball valves



Advantages

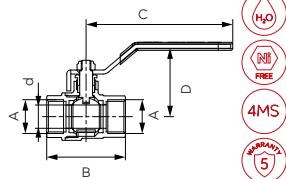
- F-Comfort series valves were awarded the Gold Medal at the Poznan 2020/2021 International Trade Fair for Installations and Equipment
- warranty: 5 years
- valves are adapted to potable water - surface, which may have contact with water (inside the valve and connection threads) is not nickel plated
- solid metal handle
- the gland on the stem allows compensation of possible clearance by means of a simple wrench
- chrome plated and polished ball resistant to blocking
- thick walls and solid workmanship - increased durability and strength
- quality control carried out strictly in accordance with applicable European standards
- 100% of the valves produced are tested for leakage
- valve's bodies have permanent markings required by the European standards
- valves have removable rubber bands to identify installation on the hot water/supply or cold/return pipe and labels with EAN codes and the necessary data to facilitate retail sales

Operating parameters and scope of application

- nominal pressure: 2,0 MPa (20 bar)
- nominal working temperature: max. 100°C
- working media: water (water supply systems and central heating)
- ball valves have received a National Technical Assessment Certificate issued by the Building Research Institute in Warsaw stating suitability for use in construction and Hygienic Certificate issued by the National Institute of Hygiene in Warsaw

Workmanship and materials

- valves are made in ABT (Advanced Body Technology) technology, combining advanced design and material solutions
- body material: brass CW617N-4MS - the newest hygiene standard
- ball finish: chrome plated, polished
- ball sealing: PTFE
- stem sealing: PTFE



Description

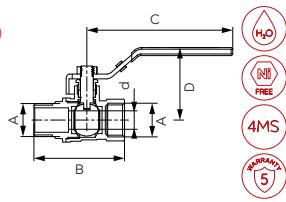
F-Comfort ball valve

- female-female
- with gland
- handle: metal lever
- body and ball material: brass
- material of ball and stem seals: PTF
- nominal pressure: 20 bar (PN20)
- maximum working temperature: 100°C



Packaging

DN	A	d [mm]	B [mm]	C [mm]	D [mm]	K _{vs} [m ³ /h]	Index	individual	bulk
15	G1/2	12	47	91	45,2	6,83	KFC1	15 pcs	90 pcs
20	G3/4	16	55,5	91	48,5	10,94	KFC2	12 pcs	72 pcs
25	G1	21	63	113	59	24,48	KFC3	10 pcs	40 pcs
32	G1 1/4	27	70,2	131	67	36,30	KFC4	9 pcs	36 pcs
40	G1 1/2	33	81	154	82,5	54,77	KFC5	4 pcs	16 pcs
50	G2	43	94,4	154	86	93,22	KFC6	2 pcs	12 pcs



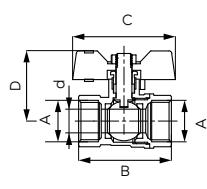
F-Comfort ball valve

- female-male
- with gland
- handle: metal lever
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure: 20 bar (PN20)
- maximum working temperature: 100°C



Packaging

DN	A	d [mm]	B [mm]	C [mm]	D [mm]	K _{vs} [m ³ /h]	Index	individual	bulk
15	G1/2	12	54,5	91	45,2	6,83	KFC11	15 pcs	90 pcs
20	G3/4	16	62,5	91	48,5	10,94	KFC21	10 pcs	60 pcs
25	G1	21	71,5	113	59	24,48	KFC31	10 pcs	40 pcs
32	G1 1/4	27	78,5	131	67	36,30	KFC41	6 pcs	36 pcs
40	G1 1/2	33	93	154	82,5	54,77	KFC51	4 pcs	16 pcs
50	G2	43	103,2	154	86	93,22	KFC61	2 pcs	12 pcs



F-Comfort ball valve

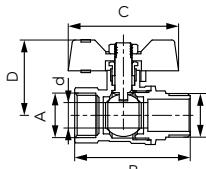
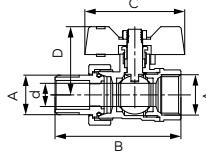
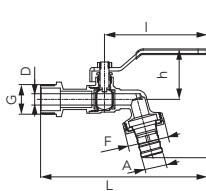
- female-female
- with gland
- handle: metal butterfly
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure: 20 bar (PN20)
- maximum working temperature: 100°C



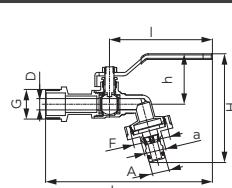
Packaging

DN	A	d [mm]	B [mm]	C [mm]	D [mm]	K _{vs} [m ³ /h]	Index	individual	bulk
15	G1/2	12	47	52	35,5	5,34	KFCM1	24 pcs	120 pcs
20	G3/4	16	55,5	52	38,8	13,31	KFCM2	18 pcs	90 pcs
25	G1	21	63	67,5	49,5	21,28	KFCM3	10 pcs	60 pcs

BALL VALVES - F-COMFORT

Description																																																																										
Packaging																																																																										
   <p>F-Comfort ball valve</p> <ul style="list-style-type: none"> female-male with gland handle: metal butterfly body and ball material: brass material of ball and stem seals: PTFE nominal pressure: 20 bar (PN20) maximum working temperature: 100°C 																																																																										
																																																																										
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25	G1	21	87	67,5	50	21,50	KFCS3	12 pcs	36 pcs																																																																	
   <p>F-Comfort intake water ball valve</p> <ul style="list-style-type: none"> male with gland with metal hose connector handle: metal lever body and ball material: brass material of ball and stem seals: PTFE nominal pressure: 10 bar (PN10) maximum working temperature: 100°C 																																																																										
																																																																										
<table border="1"> <thead> <tr> <th>DN</th><th>G</th><th>D [mm]</th><th>L [mm]</th><th>I [mm]</th><th>H [mm]</th><th>h [mm]</th><th>A [mm]</th><th>F</th><th>K_vs [m³/h]</th><th>Index</th><th>individual</th><th>bulk</th></tr> </thead> <tbody> <tr> <td>10</td><td>G3/8</td><td>9</td><td>142</td><td>90</td><td>90</td><td>41</td><td>15</td><td>G3/4</td><td>2,06</td><td>KCN10*</td><td>20 pcs</td><td>80 pcs</td></tr> <tr> <td>15</td><td>G1/2</td><td>10</td><td>144</td><td>90</td><td>92</td><td>43</td><td>15</td><td>G3/4</td><td>2,50</td><td>KCN1</td><td>15 pcs</td><td>60 pcs</td></tr> <tr> <td>20</td><td>G3/4</td><td>10</td><td>148</td><td>90</td><td>95</td><td>43</td><td>19,5</td><td>G1</td><td>2,72</td><td>KCN2</td><td>10 pcs</td><td>60 pcs</td></tr> <tr> <td>25</td><td>G1</td><td>16</td><td>182</td><td>112</td><td>119</td><td>55</td><td>27</td><td>G1 1/4</td><td>8,19</td><td>KCN3</td><td>5 pcs</td><td>30 pcs</td></tr> </tbody> </table>										DN	G	D [mm]	L [mm]	I [mm]	H [mm]	h [mm]	A [mm]	F	K _v s [m ³ /h]	Index	individual	bulk	10	G3/8	9	142	90	90	41	15	G3/4	2,06	KCN10*	20 pcs	80 pcs	15	G1/2	10	144	90	92	43	15	G3/4	2,50	KCN1	15 pcs	60 pcs	20	G3/4	10	148	90	95	43	19,5	G1	2,72	KCN2	10 pcs	60 pcs	25	G1	16	182	112	119	55	27	G1 1/4	8,19	KCN3	5 pcs	30 pcs
DN	G	D [mm]	L [mm]	I [mm]	H [mm]	h [mm]	A [mm]	F	K _v s [m ³ /h]	Index	individual	bulk																																																														
10	G3/8	9	142	90	90	41	15	G3/4	2,06	KCN10*	20 pcs	80 pcs																																																														
15	G1/2	10	144	90	92	43	15	G3/4	2,50	KCN1	15 pcs	60 pcs																																																														
20	G3/4	10	148	90	95	43	19,5	G1	2,72	KCN2	10 pcs	60 pcs																																																														
25	G1	16	182	112	119	55	27	G1 1/4	8,19	KCN3	5 pcs	30 pcs																																																														

* Available while stock lasts



Description

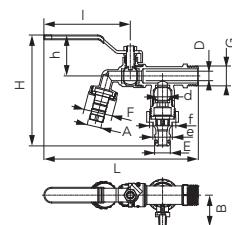
F-Comfort intake water ball valve with plastic quick coupler hose connection

- male
- with gland
- with quick coupler hose connection tip
- handle: metal lever
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure: 10 bar (PN10)
- maximum working temperature: 65°C



Packaging

DN	G	D [mm]	L [mm]	I [mm]	H [mm]	h [mm]	A [mm]	a [mm]	F	K _{vs} [m ³ /h]	Index	individual	bulk
15	G1/2	10	144	90	94	43	15,5	19,8	G3/4	2,50	KCPN1	15 pcs	60 pcs
20	G3/4	10	148	90	97	43	15,5	19,8	G1	2,50	KCPN2	10 pcs	60 pcs

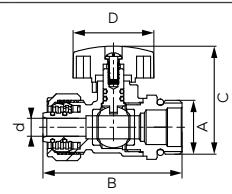
**F-Comfort bibcock with two outlets**

- male
- with gland
- with metal hose nipple and hose attachment for quick coupler hose connection
- handle: metal lever
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure: 10 bar (PN10)
- maximum working temperature: 65°C



Packaging

DN	G	D	d	L	I	H	h	B	A	E	e	F	f	Index	individual	bulk
15	G1/2	10	163	90	117	43	33	15	15,5	19,8	G3/4	G3/4	KCD1	8 pcs	32 pcs	
20	G3/4	10	164	90	118	43	33	19,5	15,5	19,8	G1	G1	KCD2	6 pcs	24 pcs	

**F-Comfort ball valve for 16x2 multilayer pipes**

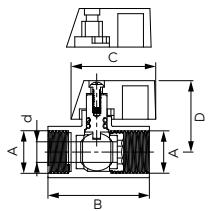
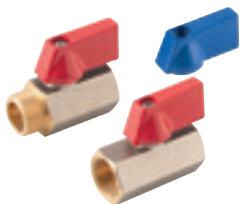
- male
- compression connection for 16x2 mm multilayer pipes with double EPDM O-ring sealing
- 1/2" connection with EPDM O-ring
- double stem sealing (2 pcs O-ring)
- handle: metal butterfly
- body and ball material: brass
- material of ball seals: PTFE
- material of stem seals: EPDM
- red or blue handle
- nominal pressure: 10 bar (PN10)
- maximum working temperature: 100°C



Packaging

DN	A	d [mm]	B [mm]	C [mm]	D [mm]	K _{vs} [m ³ /h]	Index	individual	bulk	
15	G1/2	7	54,2	31,6	31,5	2,50	KNPEX16	red	10 pcs	120 pcs
15	G1/2	7	54,2	31,6	31,5	2,50	KNPEX16-BH	blue	10 pcs	120 pcs

BALL VALVES - F-COMFORT



Description

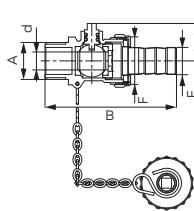
F-Comfort mini ball valve

- handle: red or blue (available in set)
- body and ball material: brass
- material of ball and stem seals: PTFE
- double stem sealing (2 pcs O-ring)
- handle: metal butterfly
- nominal pressure: 10 bar (PN10)
- maximum working temperature: 100°C



Packaging

DN	A	d [mm]	B [mm]	C [mm]	D [mm]	K _{vs} [m ³ /h]	Index	individual	bulk	
10	G1/2	10	47,2	33	29,8	4,68	female-male	KRN1	20 pcs	240 pcs
10	G1/2	10	47,2	33	29,8	4,68	female-female	KRN2	20 pcs	160 pcs
8	G3/8	8	41	33	28,3	2,85	female-female	KRN10	10 pcs	120 pcs
8	G3/8	8	41	33	28,3	2,85	female-male	KRN101	10 pcs	120 pcs



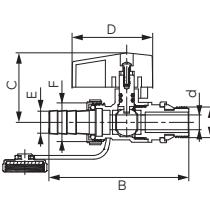
F-Comfort drain ball valve with cap handle

- male
- hose connector and plug included
- body and ball material: brass
- material of ball and stem seals: PTFE
- double stem sealing (2 pcs O-ring)
- nominal pressure: 10 bar (PN10)
- maximum working temperature: 100°C



Packaging

DN	A	d [mm]	B [mm]	C [mm]	E [mm]	F	K _{vs} [m ³ /h]	Index	individual	bulk
15	G1/2	10	74	21,3	15	G3/4	3,64	ZSN1	15 pcs	120 pcs
20	G3/4	12	76,5	22,3	15	G3/4	6,48	ZSN2	10 pcs	60 pcs



F-Comfort drain ball valve with cap handle

- male
- hose connector and plug included
- additional nut with a seal on the mounting thread
- body and ball material: brass
- material of ball and stem seals: PTFE
- double stem sealing (2 pcs O-ring)
- handle: metal butterfly
- nominal pressure: 10 bar (PN10)
- maximum working temperature: 100°C



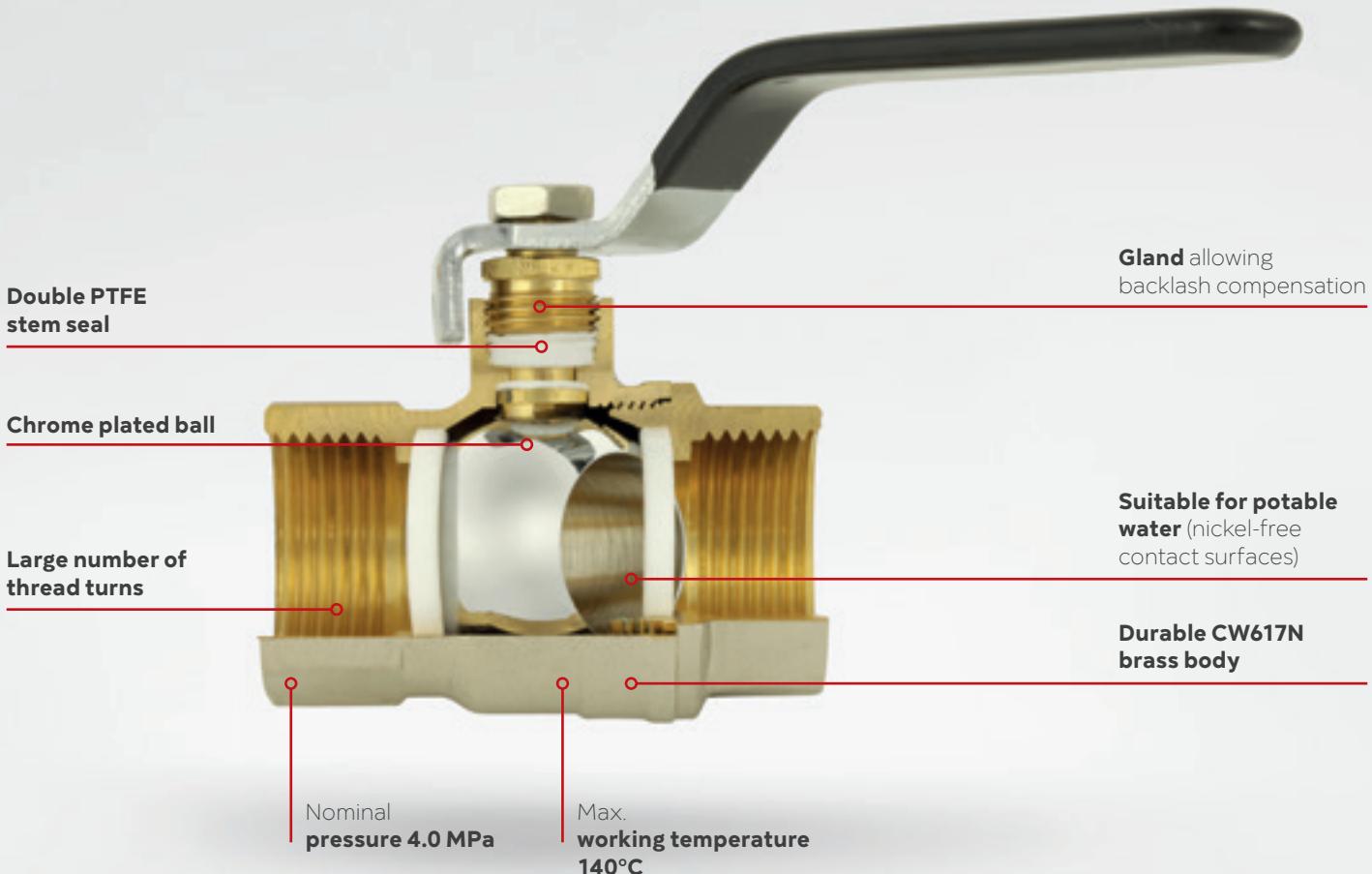
Packaging

DN	A	d [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F	K _{vs} [m ³ /h]	Index	individual	bulk
10	G3/8	10	82,5	40,5	43,5	13	G1/2	3,54	ZSUN10	10 pcs	120 pcs
15	G1/2	12	92	41	43,5	15	G3/4	5,57	ZSUN1	10 pcs	80 pcs
20	G3/4	15	92	43	43,5	19,6	G1	10,37	ZSUN2	10 pcs	60 pcs

Description							
		F-Comfort drain ball valve    					
DN	A	d [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F
10	G3/8	9	68,5	32,3	32	15	G3/4
							3,42
15	G1/2	9	70,5	32,3	32	15	G3/4
							3,54
Index  ZSSN10 ZSSN1							
Packaging							
individual							
10 pcs							
120 pcs							
bulk							

Herkules

- ball valves



Advantages

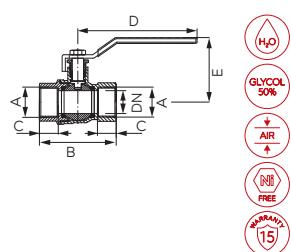
- warranty: 15 years
- metal handle
- double stem seal
- valve bore without any constriction affecting the flow, full port according to standard
- connection threads with a large number of thread turns provides a secure and tight connection
- the gland on the stem allows compensation of possible clearance by means of a simple wrench
- chrome plated and polished ball resistant to blocking
- thick walls and solid workmanship - increased durability and strength
- quality control carried out strictly according to applicable European standards
- 100% of the valves produced are tested for leakage
- valve's bodies have permanent markings required by the European standards
- valves adapted to potable water - surface, which may have contact with water (inside the valve and connection threads) is not nickel plated

Operating parameters and scope of application

- nominal pressure: 4.0 MPa (40 bar)
- maximum working temperature: 140°C
- working media: water (water supply systems and central heating), max. 50% glycol solution in water (solar and central heating installations), compressed air
- Herkules ball valves type V17 have received a National Technical Assessment Certificate issued by the Building Research Institute in Warsaw stating suitability for use in construction and Hygienic Certificate issue

Workmanship and materials:

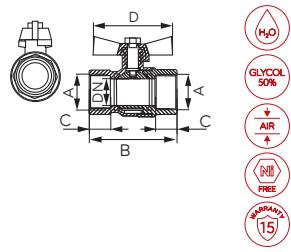
- bodies and nuts are made of moulded parts and processed by machine tools
- body material: CW617N brass
- ball finish: chrome plated, polished
- ball sealing: PTFE
- stem sealing: PTFE

**Description****Herkules ball valve type V17**

- female - female
- full bore
- reinforced with gland and double stem seal
- handle: metal lever
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure: 4,0 MPa (40 bar)
- maximum working temperature: 140°C



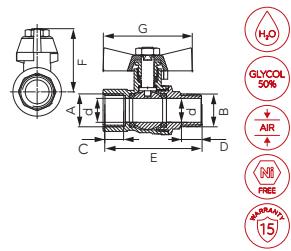
		Packaging	Retail (bags)	Retail (Eurohanger)	
Index		individual	bulk	Index	Index
KPH1		10 pcs	120 pcs	KPH1W	KPH1E
KPH2		9 pcs	81 pcs	KPH2W	KPH2E
KPH3		8 pcs	48 pcs	KPH3W	KPH3E
KPH4		4 pcs	36 pcs	KPH4W	
KPH5		2 pcs	18 pcs	KPH5W	
KPH6		2 pcs	12 pcs	KPH6W	

**Herkules ball valve type V17**

- female - female
- full bore
- reinforced
- with a gland and double stem seal
- handle: metal butterfly
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure: 4,0 MPa (40 bar)
- maximum working temperature: 140°C



		Packaging	Retail (bags)	Retail (Eurohanger)	
Index		individual	bulk	Index	Index
KMH1		12 pcs	144 pcs	KMH1W	KMH1E
KMH2		9 pcs	81 pcs	KMH2W	KMH2E
KMH3		8 pcs	64 pcs	KMH3W	KMH3E

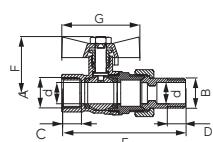
**Herkules ball valve type V17**

- female - male
- full bore
- reinforced
- with a gland and double stem seal
- handle: metal butterfly
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure: 4,0 MPa (40 bar)
- maximum working temperature: 140°C



		Packaging	Retail (bags)	Retail (Eurohanger)	
Index		individual	bulk	Index	Index
KMH11		12 pcs	144 pcs	KMH11W	KMH11E
KMH21		9 pcs	81 pcs	KMH21W	KMH21E
KMH31		8 pcs	64 pcs	KMH31W	KMH31E

BALL VALVES - HERKULES



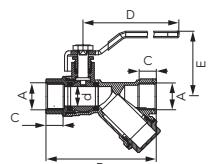
Description

Herkules ball valve type V17

- female - male with full union
- full bore
- reinforced
- with a gland and double stem seal
- handle: metal butterfly
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure: 4,0 MPa (40 bar)
- maximum working temperature: 140°C



DN	A	B	C [mm]	D [mm]	d [mm]	E [mm]	F [mm]	G [mm]	Index	Packaging		Retail (bags)	Retail (Eurohanger)
										individual	bulk		
15	Rp 1/2	R 1/2	13	13	15	-88	40	-56	KSH1	8 pcs	96 pcs	KSH1W	KSH1E
20	Rp 3/4	R 3/4	14,5	14,5	20	-99	46,5	-66	KSH2	6 pcs	54 pcs	KSH2W	KSH2E
25	Rp 1	R 1	168	17	25	-115	51	-72	KSH3	6 pcs	48 pcs	KSH3W	KSH3E



Herkules ball valve type V17

- female - female
- with stainless steel filter
- reinforced
- with a gland and double stem seal
- handle: metal lever
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure: 4,0 MPa (40 bar)
- maximum working temperature: 140°C



DN	A	B	C [mm]	D [mm]	d [mm]	E [mm]	Index	Packaging		Retail (bags)
								individual	bulk	
15	Rp 1/2	83,5	13	-94	15	49	KZFH1	6 pcs	72 pcs	KZFH1W
20	Rp 3/4	103,5	14,5	-102	20	55	KZFH2	4 pcs	36 pcs	KZFH2W
25	Rp 1	121	168	-116	25	66	KZFH3	4 pcs	32 pcs	KZFH3W
32	Rp 1 1/4	143	18	-116	32	71	KZFH4	2 pcs	16 pcs	

Ball valves

- other

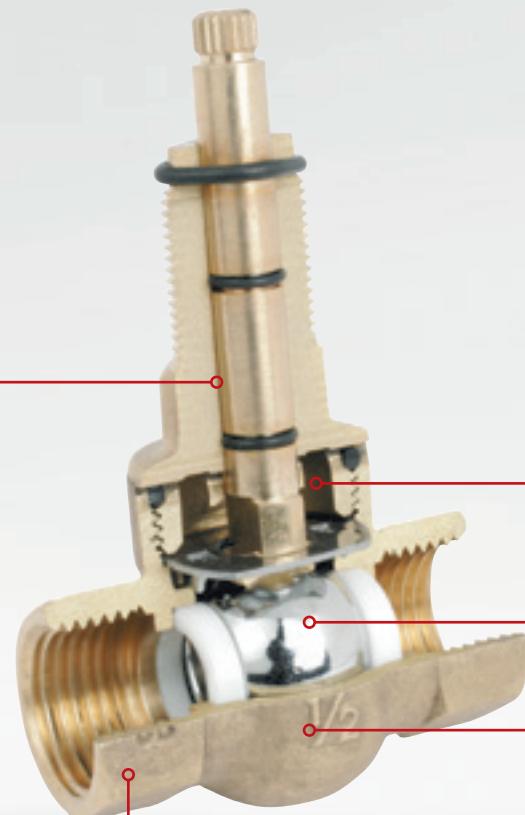
PTFE or NBR, EPDM
sealed stem

Max. working
temperature 100°C

Chrome ball

Durable CW617N
brass body

Nominal pressure
up to 2,5 MPa



Advantages:

- chrome plated and polished ball resistant to so-called „baking”
- robust design
- quality control carried out strictly according to the applicable European standards
- 100% of produced valves are subjected to tightness test
- markings, in compliance with required standards are embossed on the bodies
- internal surface suitable for drinking water

Operating parameters and scope of application:

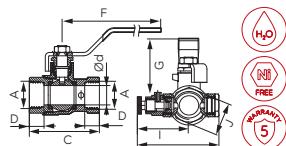
- nominal pressure: from 1.0 MPa to 2.5 MPa* (from 10 bar to 25 bar)
- max. working temperature: 100°C
- working media: water (water supply systems and central heating)
- ball valves have received a National Technical Assessment Certificate issued by the Building Research Institute in Warsaw stating suitability for use in construction and Hygienic Certificate issued by the National Institute of Hygiene in Warsaw

Execution and materials:

- bodies and nuts are made of moulded parts and processed by machine tools
- body and ball material: brass
- ball finish: chrome plated, polished
- ball seal: PTFE
- stem seal: PTFE or NBR, EPDM
- stainless steel filter cartridges

* the exact nominal pressure values are given in the product descriptions

BALL VALVES - OTHER



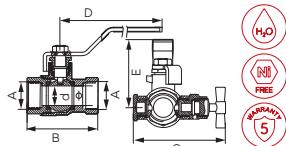
Description

Ball valve with manual air vent and plug

- female - female
- with gland
- handle: metal lever
- body and ball material: brass
- ball and stem seal: PTFE
- nominal pressure: 1.6 MPa (16 bar)
- maximum working temperature: 100°C



DN	A	d [mm]	C [mm]	D [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]	Index		Packaging	Retail (bags)
										Index	individual	bulk	Index
15	G1/2	14,5	52	11	95	50	61	35	25	KPO1	6 pcs	72 pcs	KPO1W
20	G3/4	19	60	12	105	52	67	42	31	KPO2	6 pcs	72 pcs	KPO2W
25	G1	24,5	70	14	121	61	73	45	37	KPO3	4 pcs	48 pcs	KPO3W
32	G1 1/4	31	80	15	123	67	82	49	46,5	KPO4	6 pcs	36 pcs	KPO4W
40	G1 1/2	39	91	16	151	81	90	53	54	KPO5	2 pcs	18 pcs	KPO5W
50	G2	49	107	18	151	88	102	59	66	KPO6	1 pcs	16 pcs	KPO6W

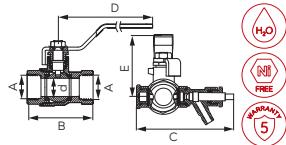


Ball valve with manual air vent and plug

- female - female
- with gland
- handle: metal lever
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure: 2,5 MPa (25 bar)
- maximum working temperature: 100°C

Available while stock lasts

DN	A	d [mm]	B [mm]	C [mm]	D [mm]	Index		Packaging	Retail
						Index	individual		
15	G1/2	15	50	53	40	KPM1	10 pcs	80 pcs	
20	G3/4	19	56	53	43	KPM2	6 pcs	48 pcs	
25	G1	25	66	65	47	KPM3	5 pcs	40 pcs	

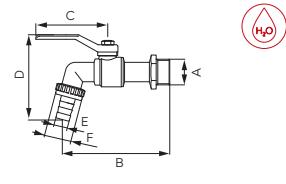


Ball valve with drain, manual air vent and plug

- female - female
- with gland
- handle: metal lever
- body and ball material: brass
- ball and stem seal: PTFE
- nominal pressure: 2,5 MPa (25 bar)
- maximum working temperature: 100°C

Available while stock lasts

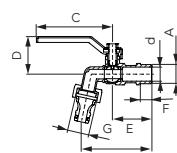
DN	A	d [mm]	B [mm]	C [mm]	D [mm]	E [mm]	Index		Packaging	Retail
							Index	individual		
15	G1/2	14,5	52	80	105	50	KPW1	8 pcs	96 pcs	
20	G3/4	19	60	86	105	52	KPW2	6 pcs	72 pcs	
25	G1	24,5	70	92	121	61	KPW3	4 pcs	40 pcs	
32	G1 1/4	31	80	101	123	67	KPW4	2 pcs	36 pcs	
40	G1 1/2	39	91	109	151	81	KPW5	2 pcs	24 pcs	
50	G2	49	107	121	151	88	KPW6	2 pcs	12 pcs	



Ball bibcock

- with gland
- with metal hose connector
- handle: metal lever
- body and ball material: brass
- ball and stem seal: PTFE
- nominal pressure: 1.0 MPa (10 bar)
- maximum working temperature: 100°C

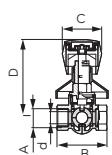
DN	A	d [mm]	B [mm]	C [mm]	D [mm]	ØE [mm]	F	Kvs [m³/h]	Index		Packaging	Retail (bags)	Retail (Eurohanger)
									Index	individual	bulk	Index	Index
15	G1/2	11	90	84	86,5	15	G3/4	5	KC1	15 pcs	135 pcs	KC1W	KC1E
20	G3/4	12,5	102	84	93	20	G1	8	KC2	10 pcs	90 pcs	KC2W	KC2E
25	G1	15	124	98	110	28	G1 1/4	14	KC3	6 pcs	36 pcs	KC3W	KC3E

**Description****Ball bibcock**

- male
- with gland
- with quick coupler hose connection tip
- handle: metal lever
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure: 1,0 MPa (10 bar)
- maximum working temperature: 65°C

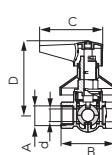


DN	A	d [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G	Packaging		Retail (bags)	Retail (Eurohanger)
									Index	individual	bulk	Index
15	G1/2	11	78	84	41	44	13	G3/4	KCP1	15 pcs	135 pcs	KCP1W KCP1E
20	G3/4	15	92	84	42	49	13	G1	KCP2	10 pcs	90 pcs	KCP2W KCP2E

**Concealed ball valve**

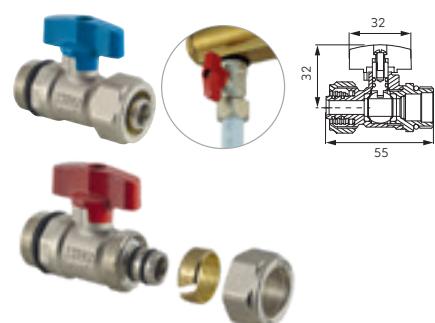
- female - female
- with knob and rosette
- body and ball material: brass
- ball seal: PTFE
- stem seal: NBR (2 O-rings)
- nominal pressure: 1.6 MPa (16 bar)
- maximum working temperature: 100°C
- red and blue caps included

DN	A	d [mm]	B [mm]	C [mm]	D [mm]	K _{vs} [m ³ /h]	Packaging		individual	bulk
							Index	Index		
15	G1/2	14	58	47	82	7	KPP1P		4 pcs	48 pcs
20	G3/4	19	66,8	47	87	14	KPP2P		4 pcs	36 pcs

**Concealed ball valve**

- female - female
- with lever and rosette
- body and ball material: brass
- ball seal: PTFE
- stem seal: NBR (2 O-rings)
- nominal pressure: 1.6 MPa (16 bar)
- maximum working temperature: 100°C

DN	A	d [mm]	B [mm]	C [mm]	D [mm]	K _{vs} [m ³ /h]	Packaging		individual	bulk
							Index	Index		
15	G1/2	14	58	70	82	7	KPP1D		4 pcs	48 pcs
20	G3/4	19	66,8	70	87	14	KPP2D		4 pcs	36 pcs

**Ball valve for 16 x 2mm multilayer pipes**

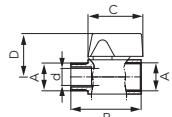
- male
- 1/2" connection with EPDM O-ring seal
- compression fitting for 16x2 mm multilayer pipes with double EPDM O-ring seal
- body and ball material: brass
- ball seal: PTFE
- stem seal: EPDM
- handle: metal butterfly
- nominal pressure: 1.0 MPa (10 bar)
- maximum working temperature: 100°C



Index	Packaging		Retail (bags)
	individual	bulk	Index
KPEX16	10 pcs	200 pcs	KPEX16W
KPEX16-BH	10 pcs	200 pcs	KPEX16-BHW

with red butterfly handle
with blue butterfly handle

BALL VALVES - OTHER



Description

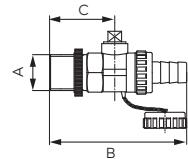
MINI ball valve

- blue and red handle included
- body and ball material: brass
- ball seal: PTFE
- stem seal: NBR (2 psc O-rings)
- handle: metal butterfly
- nominal pressure: 1.0 MPa (10 bar)
- maximum working temperature: 100°C



	Packaging	Retail (bags)	Retail (Eurohanger)
Index	individual	bulk	Index

DN	A	d [mm]	B [mm]	C [mm]	D [mm]	K _{Vs} [m ³ /h]	Index
10	G1/2	10	45	33	30	4	female - male KR1
10	G1/2	10	45	33	30	5	female - female KR2
8	G3/8	8	395	23	26	-	female - female KR10
8	G3/8	8	395	23	26	-	female - male KR101



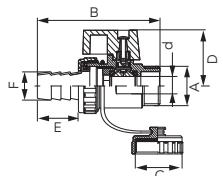
Drain ball valve

- male
- hose coupling and cap included
- body and ball material: brass
- ball seal: PTFE
- stem seal: NBR
- nominal pressure: 1.0 MPa (10 bar)
- maximum working temperature: 100°C



	Packaging	Retail (bags)	Retail (Eurohanger)
Index	individual	bulk	Index

DN	A	d [mm]	B [mm]	C [mm]	D [mm]	K _{Vs} [m ³ /h]	Index
15	G1/2	10	70	25	6		ZS1
20	G3/4	12	85	30	12		ZS2



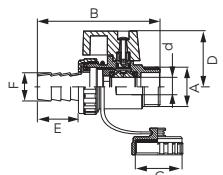
Drain ball valve with gasket

- male
- hose coupling and cap included
- handle: metal butterfly
- body and ball material: brass
- ball and stem seal: PTFE
- nominal pressure: 2.5 MPa (25 bar)
- maximum working temperature: 100°C



	Packaging	Retail (bags)
Index	individual	bulk

DN	A	d [mm]	B [mm]	C	D [mm]	E [mm]	F [mm]	Index
10	G3/8	10,5	80	G1/2	365	189	13,1	ZSU10
15	G1/2	12	89	G3/4	38	23,5	14,6	ZSU1
20	G3/4	15	92	G1	40,5	23,5	19	ZSU2



Drain ball valve standard

- male
- hose coupling and cap included
- handle: metal butterfly
- body and ball material: brass
- ball seal: PTFE
- stem seal: NBR
- nominal pressure: 2.5 MPa (25 bar)
- maximum working temperature: 100°C

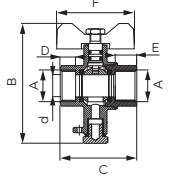
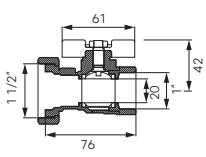
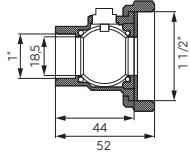
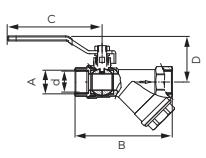


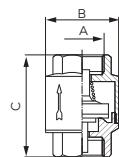
	Packaging	Retail (bags)	Retail (Eurohanger)
Index	individual	bulk	

DN	A	d [mm]	B [mm]	C	D [mm]	E [mm]	F [mm]	Index
10	G3/8	10	69	G3/4	295	~23,5	14,6	ZSS10
15	G1/2	10	69	G3/4	295	~23,5	14,6	ZSS1

Description	
1/2" drain ball valve for solar installations	
 	<ul style="list-style-type: none">• male• hose coupling and cap included• handle: butterfly• body and ball material: brass• ball and stem sealing: PTFE• nominal pressure: 1.6 MPa (16 bar)• max. working temperature: 150°C
 EAN	Packaging
Index ZSU1S	individual 1 pcs
	bulk -

BALL VALVES - OTHER

Description												
												
												
 												
Ball valve with M10x1 connection for temperature sensor <ul style="list-style-type: none"> female - female handle: metal butterfly body and ball material: brass ball seal: PTFE stem seal: NBR (2 O-rings) nominal pressure: 1.6 MPa (16 bar) maximum working temperature: 100°C 												
												
Packaging												
Retail (bags)												
Index	individual	bulk	Index									
KMT1				12 pcs	144 pcs	KMT1W						
KMT2				12 pcs	108 pcs	KMT2W						
												
												
 												
1" ball valve with 1 1/2" half union for pump <ul style="list-style-type: none"> female - female with half union equipped with a check valve with manual opening possibility with gland handle: metal butterfly gasket included body and ball material: brass ball seal: PTFE stem seal: PTFE and FP nominal pressure: 1.0 MPa (10 bar) maximum working temperature: 110°C 												
												
Packaging												
Retail (bags)												
Index	individual	bulk	Index									
KSP1				10 pcs	40 pcs	KSP1W						
												
												
 												
1" ball valve with 1 1/2" half union for pump <ul style="list-style-type: none"> female - female with half union gasket included body and ball material: brass ball and stem seal: NBR nominal pressure: 1.0 MPa (10 bar) maximum working temperature: 90°C max. instantaneous working temperature: 100°C 												
												
Packaging												
Retail (bags)												
Index	individual	bulk	Index									
KSP2	-			100 pcs			KSP2W					
												
												
 												
Ball valve with filter <ul style="list-style-type: none"> female - female with stainless steel filter with gland handle: metal lever body and ball material: brass ball and stem seal: PTFE nominal pressure: 1.6 MPa (16 bar) maximum working temperature: 100°C 												
 												
Packaging												
Retail (Eurohanger)												
Index	individual	bulk	Index									
KZF1	8 pcs	96 pcs	KZF1W									
KZF2	10 pcs	60 pcs	KZF2W									
KZF3	4 pcs	36 pcs	KZF3W									
KZF4	2 pcs	18 pcs										



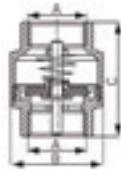
Description

Check valve with plastic closing element

- female - female
- body: brass
- closing element: ABS
- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C



DN	A	B [mm]	C [mm]	Index	Packaging		Retail (bags)	Retail (Eurohanger)
					individual	bulk	Index	Index
15	G1/2	35,5	46,8	ZZ1	30 pcs	270 pcs	ZZ1W	ZZ1E
20	G3/4	41,7	51,4	ZZ2	20 pcs	180 pcs	ZZ2W	ZZ2E
25	G1	47,2	59,5	ZZ3	10 pcs	120 pcs	ZZ3W	ZZ3E
32	G1 1/4	59,3	64,5	ZZ4	6 pcs	72 pcs	ZZ4W	ZZ4E
40	G1 1/2	67,6	73,3	ZZ5	5 pcs	45 pcs	ZZ5W	ZZ5E
50	G2	83,7	80,2	ZZ6	4 pcs	24 pcs	ZZ6W	
65	G2 1/2	95,5	93	ZZ7	4 pcs	24 pcs	ZZ7W	
80	G3	110,5	100	ZZ8	1 pcs	12 pcs	ZZ8	
100	G4	144,5	112	ZZ9	1 pcs	6 pcs	ZZ9	

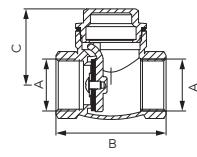


Check valve with brass closing element

- female - female
- body and closing element: brass
- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C



DN	A	B [mm]	C [mm]	Index	Packaging		Retail (bags)	Retail (Eurohanger)
					individual	bulk	Index	Index
15	G1/2	35,5	46,8	ZZM1	30 pcs	270 pcs	ZZM1W	ZZM1E
20	G3/4	41,7	51,4	ZZM2	20 pcs	180 pcs	ZZM2W	ZZM2E
25	G1	47,2	59,5	ZZM3	10 pcs	120 pcs	ZZM3W	ZZM3E
32	G1 1/4	59,3	64,5	ZZM4	6 pcs	72 pcs	ZZM4W	ZZM4E
40	G1 1/2	67,6	73,3	ZZM5	5 pcs	45 pcs	ZZM5W	
50	G2	83,7	80,2	ZZM6	4 pcs	24 pcs	ZZM6W	



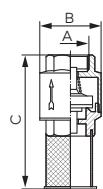
Flap check valve

- female - female
- body and flap: brass
- plug seal: PTFE
- flap seals: NBR
- nominal pressure: 1.6 MPa (16 bar)
- max. working temperature: 100°C



DN	A	B [mm]	C [mm]	Index	Packaging		Retail (bags)
					individual	bulk	Index
15	G1/2	47	35,7	ZZK1	12 pcs	270 pcs	ZZK1W
20	G3/4	56	38,7	ZZK2	6 pcs	180 pcs	ZZK2W
25	G1	64	44	ZZK3	4 pcs	120 pcs	ZZK3W
32	G1 1/4	75	52	ZZK4	3 pcs	72 pcs	
40	G1 1/2	81	59	ZZK5	2 pcs	45 pcs	
50	G2	93	66	ZZK6	1 pcs	24 pcs	ZZK6

OTHER WATER VALVES



Description

Check valve with suction basket

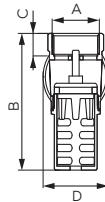
- female
- body: brass
- closing element: ABS
- suction basket and spring: stainless steel
- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C



Packaging

Retail (bags)

DN	A	B [mm]	C [mm]	Index	individual	bulk	Index
15	G1/2	35,5	71,5	K20	20 pcs	240 pcs	K20W
20	G3/4	41,7	76,9	K21	20 pcs	120 pcs	K21W
25	G1	41,7	90,5	K22	10 pcs	90 pcs	K22W
32	G1 1/4	59,3	107,5	K18	4 pcs	36 pcs	K18W
40	G1 1/2	67,6	123,3	K24	3 pcs	36 pcs	K24W
50	G2	83,7	142,2	K25	3 pcs	18 pcs	
65	G2 1/2	95,5	153	K251	1 pcs	12 pcs	K251
80	G3	110	164	K252	1 pcs	10 pcs	K252
100	G4	144	182	K253	1 pcs	4 pcs	K253



Check valve with suction basket

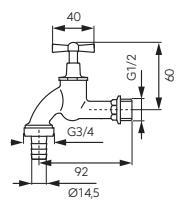
- female
- body, suction basket and locking element: brass
- locking element seal: NBR
- without spring
- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C



Packaging

Retail (bags)

DN	A	B [mm]	C [mm]	D [mm]	Index	individual	bulk	Index
20	G3/4	67	11	41	ZS1K	12 pcs	144 pcs	ZS1KW
25	G1	74	13	46	ZS2K	12 pcs	72 pcs	ZS2KW
32	G1 1/4	85	14	58	ZS3K	9 pcs	54 pcs	ZS3KW
40	G1 1/2	91	15	66	ZS4K	3 pcs	36 pcs	



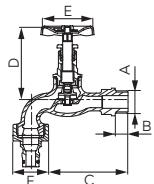
Poppet type bibcock

- male
- with metal hose connector
- with rosette
- handle: metal butterfly
- body: brass
- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 90°C



Packaging

Index	individual	bulk
KCC1B	1 pcs	50 pcs



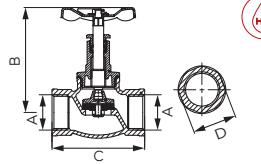
Description

Poppet type cast iron bibcock

- male
- with quick coupler hose connection tip, gland and reliable stem seal
- handle: steel knob
- body: cast iron
- stem and plug seal: EPDM
- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 90°C



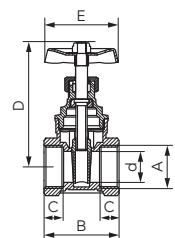
		Packaging		Retail (bags)						
DN	A	B [mm]	C [mm]	D [mm]	ØE [mm]	F	Index	individual	bulk	Index
G1/2	12	91,5	72	50	50	G3/4	ZGC01	10 pcs	30 pcs	ZGC01W
G3/4	14	114	94	54,5	54,5	G1	ZGC02	6 pcs	18 pcs	

**Poppet type cast iron valve**

- female - female
- with a gland and reliable stem seal
- handle: steel knob
- body: cast iron
- stem and poppet seal: EPDM
- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 95°C



		Packaging		Retail (bags)				
DN	A	B [mm]	C [mm]	D [mm]	Index	individual	bulk	Index
15	G1/2	86	62	26,5	ZGZ01	12 pcs	144 pcs	ZGZ01W
20	G3/4	93	72	31,5	ZGZ02	6 pcs	120 pcs	ZGZ02W
25	G1	98,5	87	41	ZGZ03	6 pcs	72 pcs	ZGZ03W
32	G1 1/4	115	101	50,5	ZGZ04	8 pcs	48 pcs	
40	G1 1/2	132,5	117	58	ZGZ05	4 pcs	32 pcs	
50	G2	141	140	70,5	ZGZ06	2 pcs	18 pcs	

**Gate valve**

- female-female
- handle: steel knob
- material of body and gate: brass
- material of stem sealing: PTFE
- nominal pressure: 1,0 MPa (10 bar)
- maximum working temperature: 100°C

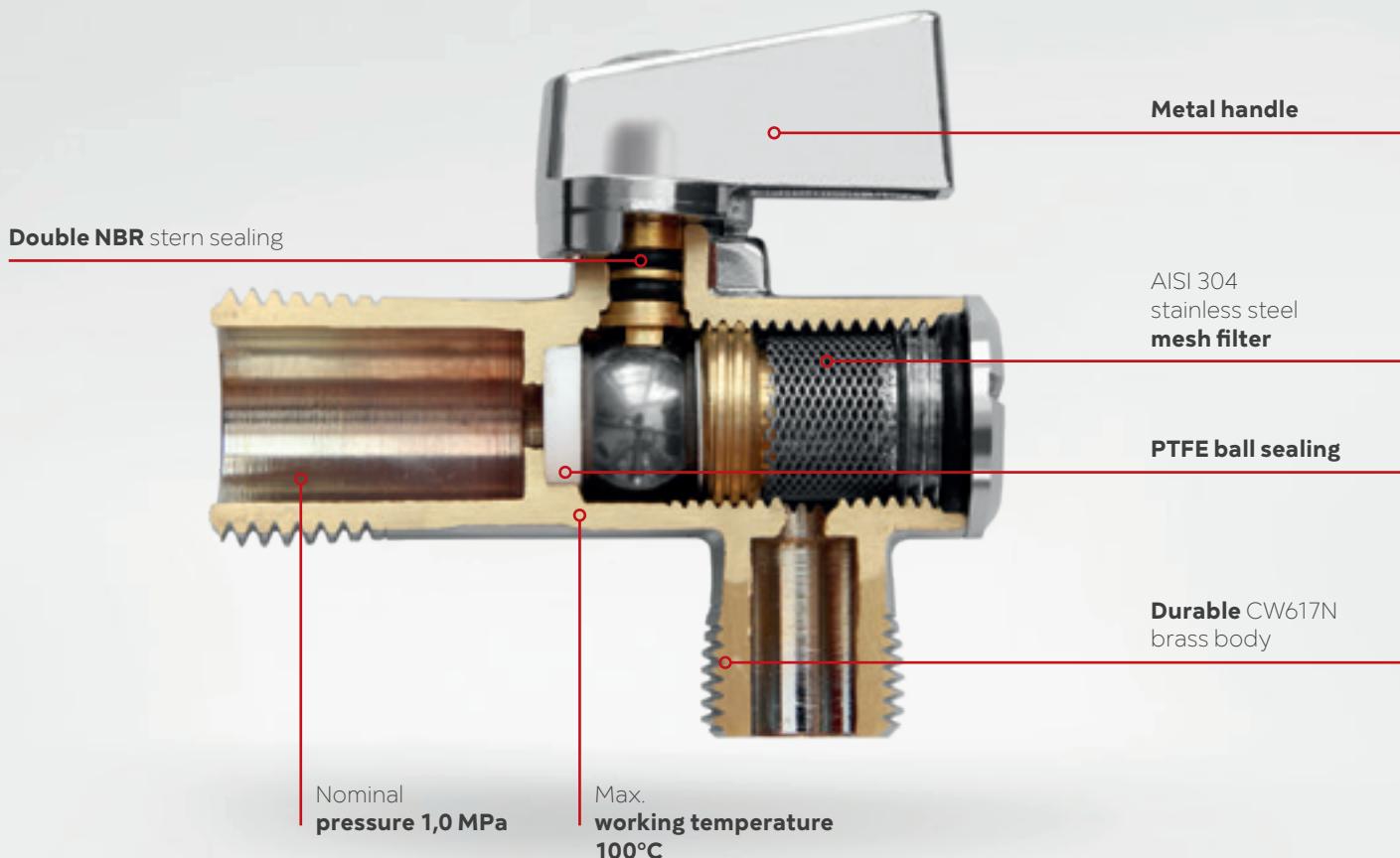
NEWAvailability
Q2 2023

		Packaging							
DN	A	d [mm]	B [mm]	C [mm]	D [mm]	E [mm]	Index	individual	bulk
15	G1/2	14,5	43	11,5	69	45	ZGV01	12 pcs	120 pcs
20	G3/4	19	46	12	76,5	45	ZGV02	12 pcs	96 pcs
25	G1	20	52	13	88	50	ZGV03	10 pcs	60 pcs
32	G1 1/4	27	56	135	99,5	60	ZGV04	6 pcs	36 pcs
40	G1 1/2	33	60	145	111,5	70	ZGV05	3 pcs	15 pcs
50	G2	43	70	165	123,5	70	ZGV06	2 pcs	20 pcs
65	G2 1/2	54	76,5	175	156	89	ZGV07	2 pcs	12 pcs
80	G3	65	77,5	19	173	110	ZGV08	1 pcs	6 pcs
100	G4	86,5	97	21,5	218,5	110	ZGV09	1 pcs	3 pcs

OTHER WATER VALVES

Description									
				Sediment central heating filter					
DN	A	B [mm]	C [mm]	Index		Packaging	Retail (bags)	Retail (Eurohanger)	
15	G1/2	54	33,5	F02		individual	15 pcs	180 pcs	F02W
20	G3/4	70	56,5	F03		bulk	10 pcs	120 pcs	F03W
25	G1	84	44,5	F06		Index	10 pcs	90 pcs	F06W
32	G1 1/4	98	75	F04			4 pcs	36 pcs	F04W
40	G1 1/2	110	82	F05			2 pcs	24 pcs	F05W
50	G2	128	93	F07			2 pcs	12 pcs	F07W
65	G2 1/2	143	128	F08			1 pcs	12 pcs	F08
80	G3	160	152	F09			1 pcs	6 pcs	F09
100	G4	182	175	F10			1 pcs	4 pcs	F10

Angle valves



Advantages:

- solid workmanship
- quality control carried out strictly according to the applicable European standards
- 100% of produced valves are subjected to tightness test
- valve's bodies have permanent markings required by the European standards
- internal surface suitable for potable water

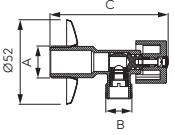
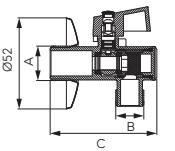
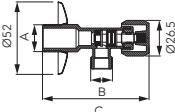
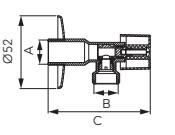
Operating parameters and scope of application:

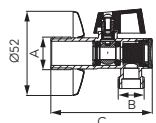
- nominal pressure: 1,0 MPa (10 bar)
- max. working temperature: 100°C
- working media: hot and cold water (water systems)

Workmanship and materials:

- bodies made of high-quality CW617N brass
- seals made of NBR or PTFE
- stainless steel filter cartridges

ANGLE VALVES

Description						
			Packaging			
A	B	C [mm]	Size of connectors	Index	individual	bulk
G1/2	G3/8	75,2	1/2" x 3/8"	Z1238K	1 pcs	100 pcs
G1/2	G1/2	75,2	1/2" x 1/2"	Z1212K	1 pcs	100 pcs
G1/2	G3/4	75,2	1/2" x 3/4"	Z1234K	1 pcs	100 pcs
			 Ø52 A B C	Ball valve with rosette and metal knob • nominal pressure: 1.0 MPa (10 bar) • max. working temperature: 100°C		
					Packaging	
A	B	C [mm]	Size of connectors	Index	individual	bulk
G1/2	G3/8	63	1/2" x 3/8"	Z1238KF	1 pcs	100 pcs
G1/2	G1/2	63	1/2" x 1/2"	Z1212KF	1 pcs	100 pcs
G1/2	G3/4	63	1/2" x 3/4"	Z1234KF	1 pcs	100 pcs
			 Ø52 A B C	Ball valve with filter, rosette and metal knob • nominal pressure: 1.0 MPa (10 bar) • max. working temperature: 100°C		
					Packaging	
A	B	C [mm]	Size of connectors	Index	individual	bulk
G1/2	G3/8	78,5	1/2" x 3/8"	Z1238G	1 pcs	100 pcs
G1/2	G1/2	78,5	1/2" x 1/2"	Z1212G	1 pcs	100 pcs
G1/2	G3/4	78,5	1/2" x 3/4"	Z1234G	1 pcs	100 pcs
			 Ø52 A B C Ø26,5	Poppet valve, rosette and metal knob • nominal pressure: 1.0 MPa (10 bar) • max. working temperature: 100°C		
					Packaging	
A	B	C [mm]	Size of connectors	Index	individual	bulk
G1/2	G3/8	78,5	1/2" x 3/8"	Z1238G	1 pcs	100 pcs
G1/2	G1/2	78,5	1/2" x 1/2"	Z1212G	1 pcs	100 pcs
G1/2	G3/4	78,5	1/2" x 3/4"	Z1234G	1 pcs	100 pcs
			 Ø52 A B C	Ball valve with rosette • nominal pressure: 1.0 MPa (10 bar) • max. working temperature: 100°C		
					Packaging	
A	B	C [mm]	Size of connectors	Index	individual	bulk
G1/2	G3/4	79	1/2" x 3/4"	EZ1234K	1 pcs	100 pcs



Description

Ball valve with filter, rosette and aluminium handle

- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C

Available while stock lasts



Packaging

A	B	C [mm]	Size of connectors
G1/2	G1/2	61	1/2" x 1/2"
G1/2	G3/4	61	1/2" x 3/4"

Index

EZ1212KF

individual

bulk

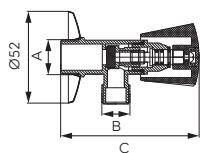
1 pcs

100 pcs

EZ1234KF

1 pcs

100 pcs

**Poppet valve**

- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C



Packaging

A	B	C [mm]	Size of connectors
G1/2	G3/8	81,5	1/2" x 3/8' with coupling for copper pipe Ø10 mm
G1/2	G3/8	81,5	1/2" x 3/8"
G1/2	G1/2	81,5	1/2" x 1/2"
G1/2	G3/4	81,5	1/2" x 3/4"

Index

Z240

individual

bulk

1 pcs

100 pcs

Z241*

1 pcs

100 pcs

Z220

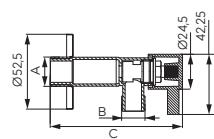
1 pcs

100 pcs

Z230

1 pcs

100 pcs

**Angle valve with ceramic head**

- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C



Packaging

A	B	C [mm]	Size of connectors
G1/2	G3/8	98	1/2" x 3/8"
G1/2	G1/2	98	1/2" x 1/2"
G1/2	G3/4	98	1/2" x 3/4"

Index

Z1238C

individual

bulk

1 pcs

100 pcs

Z1212C

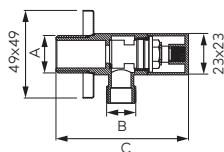
1 pcs

100 pcs

Z1234C

1 pcs

100 pcs

**Angle valve with ceramic head and rosette**

- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C



Packaging

A	B	C [mm]	Size of connectors
G1/2	G3/8	75	1/2" x 3/8"
G1/2	G1/2	75	1/2" x 1/2"

Index

Z293

individual

bulk

1 pcs

100 pcs

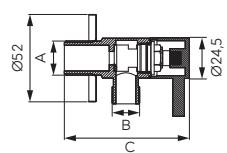
Z294

1 pcs

100 pcs

* Available while stock lasts

ANGLE VALVES



Description

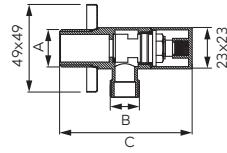
Angle valve with ceramic head and rosette

- nominal pressure: 1,0 MPa (10 bar)
- max. working temperature: 100°C



Packaging

A	B	C [mm]	Size of connectors	Index	individual	bulk
G1/2	G3/8	75	1/2" x 3/8"	Z295	1 pcs	100 pcs
G1/2	G1/2	75	1/2" x 1/2"	Z296	1 pcs	100 pcs



Angle valve with ceramic head and rosette

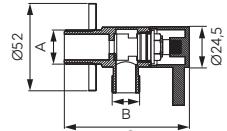
NEW

- nominal pressure: 1,0 MPa (10 bar)
- max. working temperature: 100°C
- no contact of flowing water with paint finish
- the valve body doesn't scratch the rosette during installation
- finish: black matt



Packaging

A	B	C [mm]	Size of connectors	Index	individual	bulk
G1/2	G3/8	75	1/2" x 3/8"	Z293-BL	1 pcs	100 pcs
G1/2	G1/2	75	1/2" x 1/2"	Z294-BL	1 pcs	100 pcs



Angle valve with ceramic head and rosette

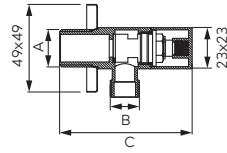
NEW

- nominal pressure: 1,0 MPa (10 bar)
- max. working temperature: 100°C
- no contact of flowing water with paint finish
- finish: black matt



Packaging

A	B	C [mm]	Size of connectors	Index	individual	bulk
G1/2	G3/8	75	1/2" x 3/8"	Z295-BL	1 pcs	100 pcs
G1/2	G1/2	75	1/2" x 1/2"	Z296-BL	1 pcs	100 pcs



Angle valve with ceramic head and rosette

NEW

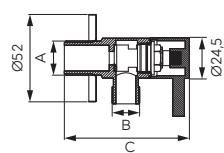
Availability
Q1 2023

- nominal pressure: 1,0 MPa (10 bar)
- max. working temperature: 100°C
- no contact of flowing water with paint finish
- the valve body doesn't scratch the rosette during installation
- finish: bright gold



Packaging

A	B	C [mm]	Size of connectors	Index	individual	bulk
G1/2	G3/8	75	1/2" x 3/8"	Z293-G	1 pcs	100 pcs
G1/2	G1/2	75	1/2" x 1/2"	Z294-G	1 pcs	100 pcs



Description

Angle valve with ceramic head and rosette

- nominal pressure: 1,0 MPa (10 bar)
- max. working temperature: 100°C
- no contact of flowing water with paint finish
- finish: bright gold

NEW

Availability
Q1 2023

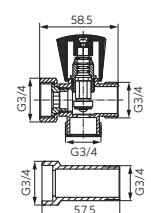
A	B	C [mm]	Size of connectors
G1/2	G3/8	75	1/2" x 3/8"
G1/2	G1/2	75	1/2" x 1/2"

Index

Z295-G**Z296-G**

Packaging

individual	bulk
1 pcs	100 pcs
1 pcs	100 pcs



Washing machine connection valve with 3/4"

- chrome
- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C

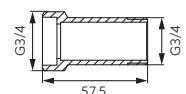


Index

Z250

Packaging

individual	bulk
1 pcs	36 pcs



Faucet extension G3/4

- chrome

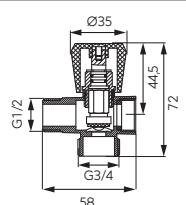


Index

P480

Packaging

individual	bulk
1 pcs	100 pcs



3-way poppet valve

- for connecting a washing machine or dishwasher with an existing angle valve
- 1/2" FT connection for flat seal
- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C



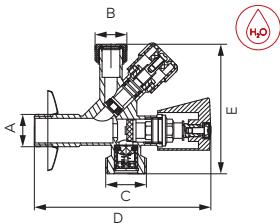
Index

CF3019A

Packaging

individual	bulk
1 pcs	100 pcs

ANGLE VALVES



Description

Double poppet valve with rosette

- for connecting mixers and washing machine or dishwasher
- check valve built into the 3/4" connection
- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C



Packaging

A	B	C	D [mm]	E [mm]	Size of connectors
G1/2	G3/8	G3/4	114	84	3/8" x 1/2" x 3/4" with coupling for copper pipe Ø10 mm
G1/2	G1/2	G3/4	114	84	1/2" x 1/2" x 3/4"

Index

CF5104

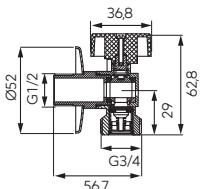
Packaging

individual

bulk

1 pcs

24 pcs



1/2" x 3/4" ball valve with rosette and metal handle

- for connecting a washing machine or dishwasher
- check valve built into the 3/4" connection
- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C



Packaging

Index

CF3016

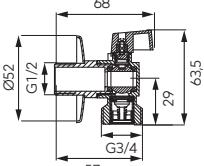
Packaging

individual

bulk

1 pcs

100 pcs



1/2" x 3/4" ball valve with rosette and aluminium handle

- for connecting a washing machine or dishwasher
- check valve built into the 3/4" connection
- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C



Packaging

Index

CF3027

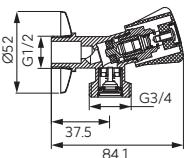
Packaging

individual

bulk

1 pcs

100 pcs



1/2" x 3/4" poppet valve with rosette

- for connecting a washing machine or dishwasher
- check valve built into the 3/4" connection
- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C



Packaging

Index

CF3017

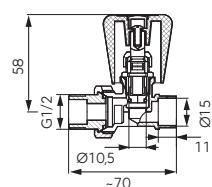
Packaging

individual

bulk

1 pcs

100 pcs



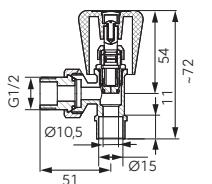
Description

1/2" straight radiator valve for soldering with gland

- max. working temperature: 100°C
- max. working pressure: 1.0 MPa (10 bar)

Packaging

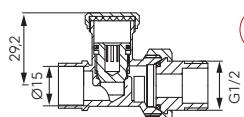
Index	individual	bulk
ZG2LY	12 pcs	144 pcs

**1/2" angle radiator valve for soldering with gland**

- max. working temperature: 100°C
- max. working pressure: 1.0 MPa (10 bar)

Packaging

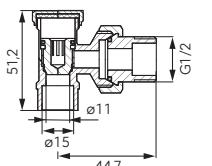
Index	individual	bulk
ZG5LY	12 pcs	144 pcs

**1/2" straight cut-off radiator valve for soldering**

- max. working temperature: 100°C
- max. working pressure: 1.0 MPa (10 bar)

Packaging

Index	individual	bulk
ZP2LY	16 pcs	162 pcs

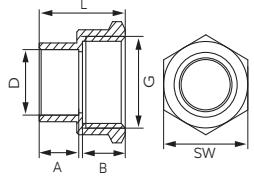
**1/2" angle cut-off radiator valve for soldering**

- max. working temperature: 100°C
- max. working pressure: 1.0 MPa (10 bar)

Packaging

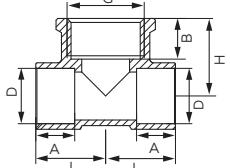
Index	individual	bulk
ZK2LY	16 pcs	192 pcs

CONNECTORS FOR SOLDERING

						Description
 						Transition muff



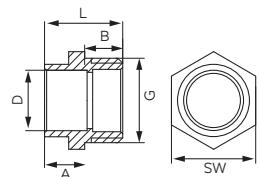
G	B [mm]	A [mm]	D [mm]	L [mm]	SW [mm]	Index	Packaging		Retail (bags)
							individual	bulk	Index
G3/8	86	9	12	19	20	4270-1200*	25 pcs	800 pcs	
G1/2	86	11	12	21	24	4270-1201*	25 pcs	700 pcs	
G3/8	106	9	15	21	20	4270-1500	25 pcs	700 pcs	
G1/2	106	11	15	23	24	4270-1501	25 pcs	600 pcs	
G3/4	106	12	15	24,5	30	4270-1502	25 pcs	350 pcs	
G1/2	106	11	18	25	24	4270-1801*	25 pcs	500 pcs	
G3/4	12,6	12	18	26	30	4270-1802	25 pcs	400 pcs	
G1/2	12,6	11	22	28	24	4270-2201	25 pcs	400 pcs	
G3/4	15,4	12	22	29,5	30	4270-2202	10 pcs	240 pcs	
G1	15,4	14	22	31,5	37	4270-2203	10 pcs	200 pcs	
G1/2	18,4	11	28	32,5	24	4270-2801	10 pcs	300 pcs	
G3/4	18,4	12	28	32	30	4270-2802	10 pcs	220 pcs	
G1	18,4	14	28	34,5	37	4270-2803	10 pcs	150 pcs	
G1 1/4	18,4	16	28	37	47	4270-2804*	5 pcs	100 pcs	
G1	23	14	35	39	37	4270-3503	5 pcs	90 pcs	
G1 1/4	23	16	35	40,5	47	4270-3504	1 pcs	70 pcs	4270-3504

						Description
 						Transition tee female

Packaging

G	A [mm]	B [mm]	D [mm]	L [mm]	SW [mm]	Index	Packaging	
							individual	bulk
G1/2	106	11	15	19	21	4130-1501	25 pcs	350 pcs
G1/2	12,6	11	18	22	22,5	4130-1801	10 pcs	240 pcs
G1/2	15,4	11	22	26,5	23,5	4130-2201	10 pcs	150 pcs
G1/2	18,4	11	28	29,5	27,5	4130-2801	10 pcs	100 pcs

* Available while stock lasts

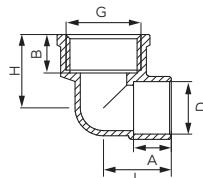


Description

Transition nipple



						Packaging	Retail (bags)		
G	A [mm]	B [mm]	D [mm]	L [mm]	SW [mm]	Index	individual	bulk	Index
G3/8	86	9	12	19	17	4243-1200*	25 pcs	1000 pcs	
G1/2	86	10	12	20	21	4243-1201*	25 pcs	800 pcs	
G3/8	106	9	15	21	185	4243-1500	25 pcs	800 pcs	
G1/2	106	10	15	195	21	4243-1501	25 pcs	700 pcs	
G3/4	106	11	15	21,5	27	4243-1502	25 pcs	500 pcs	
G1/2	12,6	10	18	24	22	4243-1801	25 pcs	550 pcs	
G3/4	12,6	11	18	25	27	4243-1802	25 pcs	400 pcs	
G1/2	15,4	10	22	27	26	4243-2201	10 pcs	400 pcs	
G3/4	15,4	11	22	27	27	4243-2202	10 pcs	300 pcs	
G1	15,4	13	22	27,5	33,5	4243-2203	10 pcs	250 pcs	
G3/4	18,4	11	28	31,5	32	4243-2802	10 pcs	220 pcs	
G1	18,4	13	28	32	33,5	4243-2803	10 pcs	200 pcs	
G1 1/4	18,4	14,5	28	34	43	4243-2804	5 pcs	150 pcs	
G1	23	13	35	38	40	4243-3503	5 pcs	100 pcs	
G1 1/4	23	14,5	35	33	43	4243-3504	1 pcs	80 pcs	4243-3504
G1 1/2	23	16,5	35	43	50	4243-3505*	1 pcs	50 pcs	4243-3505*



Transition elbow female



						Packaging	Retail (bags)		
G	A [mm]	B [mm]	D [mm]	L [mm]	H [mm]	Index	individual	bulk	Index
G1/2	10,6	11	15	19	21	4090-1501	10 pcs	400 pcs	
G3/4	10,6	12	15	20	21,5	4090-1502*	25 pcs	300 pcs	
G1/2	12,6	11	18	22	22,5	4090-1801	10 pcs	350 pcs	
G3/4	12,6	12	18	23	23,5	4090-1802*	10 pcs	250 pcs	
G1 1/4	23,0	16	35	37,5	36	4090-3504*	1 pcs	50 pcs	4090-3504

* Available while stock lasts

CONNECTORS FOR SOLDERING

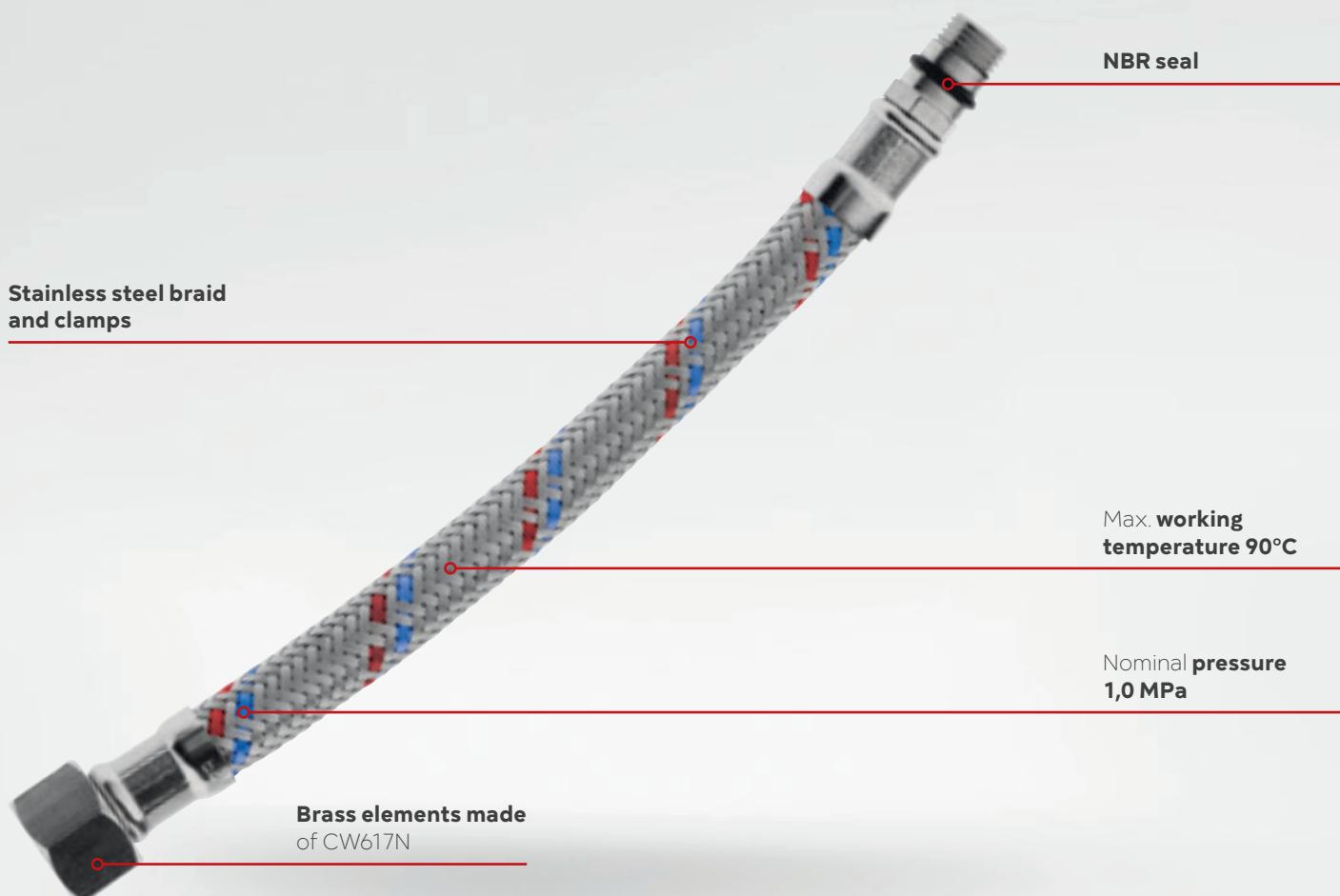
Description								
						Packaging		
G	A [mm]	B [mm]	D [mm]	L [mm]	H [mm]	Index	individual	bulk
G1/2	106	10	15	19	24	4092-1501	10 pcs	400 pcs
G3/4	106	11	15	21	24	4092-1502*	25 pcs	300 pcs
G1/2	12,6	10	18	21,5	25,5	4092-1801	25 pcs	350 pcs
G3/4	12,6	11	18	27	27	4092-1802*	10 pcs	250 pcs

Description									
						Packaging			
G	A [mm]	B [mm]	D [mm]	L [mm]	H1 [mm]	H [mm]	Index	individual	bulk
G1/2	106	11	15	19	21,0	30,5	4472-1501	10 pcs	250 pcs
G3/4	106	12	15	20	21,5	31,5	4472-1502*	10 pcs	180 pcs
G1/2	12,6	11	18	22	22,5	34,5	4472-1801	10 pcs	160 pcs
G3/4	12,6	12	18	23	23,5	35	4472-1802*	10 pcs	140 pcs
G1/2	15,4	11	22	26,5	23,5	37	4472-2201*	10 pcs	140 pcs
G3/4	15,4	12	22	26,5	25,0	39	4472-2202*	10 pcs	120 pcs

Description								
						Packaging		
G	A [mm]	B [mm]	D [mm]	L [mm]	SW [mm]	Index	individual	bulk
G1/2	11,5	11,5	15	50	19	4341G-1501	10 pcs	250 pcs
G1/2	12,6	11,5	18	52	23	4341G-1801	10 pcs	200 pcs
G3/4	12,6	13,5	18	57,5	23	4341G-1802	10 pcs	180 pcs
G1	18,4	16	28	69	33	4341G-2803	5 pcs	100 pcs

* Available while stock lasts

Connection hoses



Advantages:

- strong and durable stainless steel braid
 - resistant to building lime
 - in contact with water no oxide formations appear on the surface of the hose creating stains optically resembling corrosion
- steel and brass elements connecting the flexible part with the end of the hose provide a long term, reliable and tight connection
- all flexible connections are subjected to 100% tightness test
- simple design and high reliability
- all connections have the manufacturer's markings and production year

Operating parameters and scope of application:

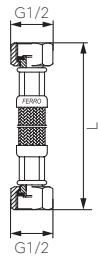
- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 90°C
- working media: water (water supply systems and central heating)
- connection cables have a Hygienic Certificate issued by the National Institute of Hygiene in Warsaw

Workmanship and materials:

- connections (clamping nuts and connection ends): nickel-plated or chrome-plated brass
- outer braid and clamping sleeve: stainless steel AISI 304
- flat or O-ring seal: EPDM or NBR



CONNECTION HOSES



Description

Stainless steel braided connection hose with gasket

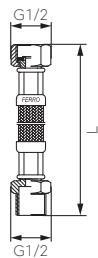
- 1/2" female – female



EAN

Packaging

Index	L [cm]	individual	bulk
PWS04	15	1 pcs	10 pcs
PWS1	20	1 pcs	10 pcs
PWS01	25	1 pcs	10 pcs
PWS2	30	1 pcs	10 pcs
PWS02	35	1 pcs	10 pcs
PWS3	40	1 pcs	10 pcs
PWS03	45	1 pcs	10 pcs
PWS4	50	1 pcs	10 pcs
PWS5	60	1 pcs	10 pcs
PWS6	70	1 pcs	10 pcs
PWS7	80	1 pcs	10 pcs
PWS8	90	1 pcs	10 pcs
PWS9	100	1 pcs	10 pcs
PWS20	120	1 pcs	10 pcs
PWS30	150	1 pcs	10 pcs
PWS40	200	1 pcs	10 pcs



Stainless steel braided connection hose with gasket

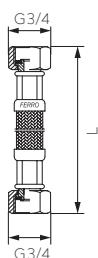
- 1/2" male – female



EAN

Packaging

Index	L [cm]	individual	bulk
PWS11	20	1 pcs	10 pcs
PWS411	25	1 pcs	10 pcs
PWS21	30	1 pcs	10 pcs
PWS31	40	1 pcs	10 pcs
PWS41	50	1 pcs	10 pcs
PWS51	60	1 pcs	10 pcs
PWS61	70	1 pcs	10 pcs
PWS71	80	1 pcs	10 pcs
PWS81	90	1 pcs	10 pcs
PWS91	100	1 pcs	10 pcs
PWS511	120	1 pcs	10 pcs
PWS301	150	1 pcs	10 pcs



Stainless steel braided connection hose with gasket

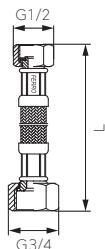
- 3/4" female - female



EAN

Packaging

Index	L [cm]	individual	bulk
PWS611	30	1 pcs	10 pcs
PWS62	40	1 pcs	10 pcs
PWS63	50	1 pcs	10 pcs
PWS64	100	1 pcs	10 pcs

**Description****Stainless steel braided connection hose 3/4" x 1/2"**

- female - female

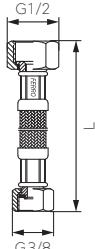


Index L [cm]

Index	L [cm]
PWS71	30
PWS72	35
PWS73	40
PWS74	50
PWS75	60
PWS76	70
PWS77	80
PWS78	100

Packaging

	individual	bulk
1 pcs	10 pcs	

**Stainless steel braided connection hose 1/2" x 3/8"**

- female - female

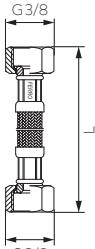


Index L [cm]

Index	L [cm]
PWS811	20
PWS82	30
PWS83	40
PWS84	50
PWS85	60
PWS86	80
PWS87	100

Packaging

	individual	bulk
1 pcs	10 pcs	

**Stainless steel braided connection hose 3/8" x 3/8"**

- female - female



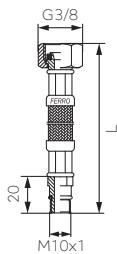
Index L [cm]

Index	L [cm]
PWS95	20
PWS911	30
PWS92	40
PWS93	50
PWS94	60
PWS96	80

Packaging

	individual	bulk
1 pcs	10 pcs	

CONNECTION HOSES



Description

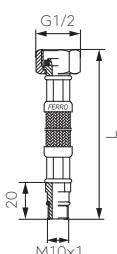
Stainless steel braided connection hose 3/8" x M10x1

- with short tip



Packaging

Index	L [cm]	individual	bulk
WBS15	30	1 pcs	10 pcs
WBS11	35	1 pcs	10 pcs
WBS17	40	1 pcs	10 pcs
WBS12	50	1 pcs	10 pcs
WBS18	60	1 pcs	10 pcs
WBS19	80	1 pcs	10 pcs



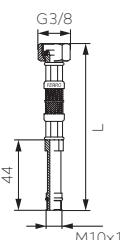
Stainless steel braided connection hose 1/2" x M10x1

- with short tip



Packaging

Index	L [cm]	individual	bulk
WBS21	35	1 pcs	10 pcs
WBS81	40	1 pcs	10 pcs
WBS22	50	1 pcs	10 pcs
WBS82	60	1 pcs	10 pcs
WBS83	70	1 pcs	10 pcs
WBS84	80	1 pcs	10 pcs
WBS85	90	1 pcs	10 pcs
WBS86	100	1 pcs	10 pcs



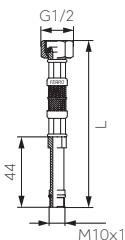
Stainless steel braided connection hose 3/8" x M10x1

- with long tip



Packaging

Index	L [cm]	individual	bulk
WBS91	30	1 pcs	10 pcs
WBS13	35	1 pcs	10 pcs
WBS92	40	1 pcs	10 pcs
WBS14	50	1 pcs	10 pcs
WBS93	60	1 pcs	10 pcs



Stainless steel braided connection hose 1/2" x M10x1

- with long tip



Packaging

Index	L [cm]	individual	bulk
WBS23	35	1 pcs	10 pcs
WBS25	40	1 pcs	10 pcs
WBS24	50	1 pcs	10 pcs
WBS26	60	1 pcs	10 pcs
WBS27	70	1 pcs	10 pcs
WBS28	80	1 pcs	10 pcs
WBS29	90	1 pcs	10 pcs
WBS20	100	1 pcs	10 pcs

Measuring devices

MEASURING DEVICES



WATER METERS
57



PRESSURE GAUGES
59

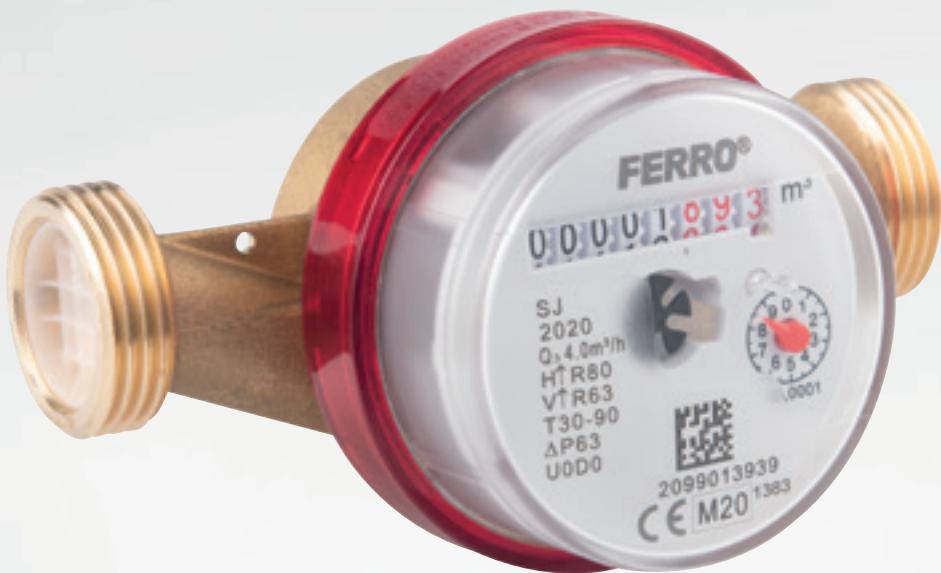


THERMOMANOMETERS
61



THERMOMETERS
61

Measuring devices



Description:

Measuring devices include water meters, manometers/pressure gauges, thermomanometers gauges and thermometers that allow to measure the working parameters of the installation. The devices can be used in water installations, central heating and industrial installations. High technical parameters ensure accurate and reliable measurement. SJ PLUS is a series of single flow dry water meters for measuring the volume of cold or hot water. The only element that comes into contact with water flowing in a pipe is the turbine therefore, a reading is also possible if the water is contaminated with suspended solids or sand, or has a high hardness index. In addition to the metrological certificates, the products in this series are approved for use and can be installed in drinking water systems. The offer also includes consoles with adjustable connection spacings that facilitate the installation of water meters.

Pressure gauges are based on Bourdon's tubular spring and their casings are made of high quality plastic. They offer measuring ranges from 0 to 4, 6 or 10 bar and are equipped with

side or rear brass connections. Thermomanometers gauges are devices that allow to simultaneously measure pressure and temperature in the system.

Dial thermometers are available in galvanized steel casings and their covers are made of scratch-resistant plastic. The measuring mechanism is based on a bimetallic spiral. The temperature measurement range is from 0 to 120°C and the dial diameters measure 40 mm, 63 mm, 80 mm and 100 mm. Dial thermometers are equipped with rear brass connections. The offer also includes bar thermometers for boilers.

Description					
Nominal volume flow	Water meter thread flange	For installation in systems	Metrological class	Index	Packaging
					individual bulk
2,5 m³/h	G3/4	DN15	H-R80, V-R63	SJ15ACPLUSPLI	1 pcs 10 pcs
4,0 m³/h	G1	DN20	H-R80, V-R63	SJ20ACPLUSPLI	1 pcs 10 pcs
 					
Reed pulse transmitter for SJ PLUS PLI water meters					
<ul style="list-style-type: none"> reed switch transmitter for remote readings of SJ PLUS PLI water meters reed relay potted in resin protection class: IP68 current parameters: 24 Vac/Vdc, 0,1 A max. cable length: 1 m operating temperature: -25°C ÷ +90°C storage temperature: -45°C ÷ +90°C for installations inside buildings 					
 					
Single-jet dry dial water meter (antimagnetic) for hot water					
<ul style="list-style-type: none"> maximum operating pressure (MAP): 1.6 MPa (16 bar) working temperature: to 90°C upgraded metrological class: H-R80 V-R63 protection against influence of external magnetic field horizontal or vertical mounting position hermetic counter for installations inside buildings 					
Nominal volume flow	Water meter thread flange	For installation in systems	Metrological class	Index	Packaging
					individual bulk
2,5 m³/h	G3/4	DN15	H-R80, V-R63	SJ15ACPLUS	1 pcs 10 pcs
4,0 m³/h	G1	DN20	H-R80, V-R63	SJ20ACPLUS	1 pcs 10 pcs

WATER METERS

Description



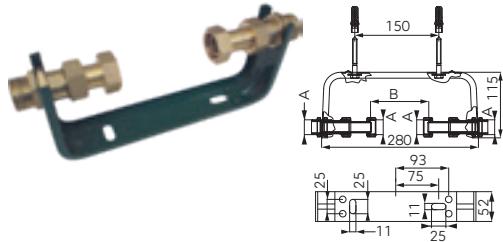
Single-jet dry dial water meter (antimagnetic) for cold water

- maximum operating pressure (MAP): 1.6 MPa (16 bar)
- working temperature: to 50°C
- upgraded metrological class: H-R80 V-R63
- protection against influence of external magnetic field
- horizontal or vertical mounting position
- hermetic counter
- for installations inside buildings



Packaging

Nominal volume flow	Water meter thread flange	For installation in systems	Metrological class	Index	individual	bulk
2,5 m³/h	G3/4	DN15	H-R80, V-R63	SJ15AFPLUS	1 pcs	10 pcs
4,0 m³/h	G1	DN20	H-R80, V-R63	SJ20AFPLUS	1 pcs	10 pcs



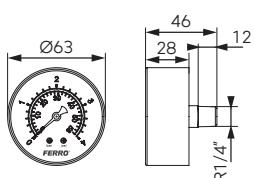
Water meter console

- adjustable spacing between connections
- fitting lead seals possible
- gaskets, screws and rawplugs included



Packaging

DN	A	B [mm] min.	B [mm] max.	Index	individual	bulk
15	G3/4	71	156	KSD15	1 pcs	8 pcs
20	G1	55	126	KSD20	1 pcs	8 pcs

**Description****Pressure gauges**

- casing: high resistance ABS
- cover: scratch-resistant plastic
- dial: powder-coated aluminium
- type: pressure gauge with Bourdon tube spring
- dial diameter: 63 mm
- range: 0 - 4 bar
- connection: 1/4" brass - rear connection

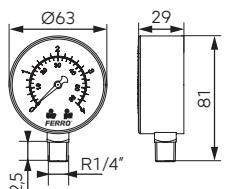
**Packaging****Index****M6304A**

individual

bulk

1 pcs

150 pcs

**Pressure gauges**

- casing: high resistance ABS
- cover: scratch-resistant plastic
- dial: powder-coated aluminium
- type: pressure gauge with Bourdon tube spring
- dial diameter: 63 mm
- range: 0 - 4 bar
- connection: 1/4" brass – side connection

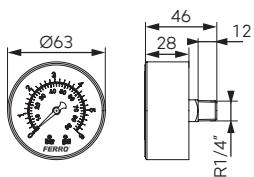
**Packaging****Index****M6304R**

individual

bulk

1 pcs

120 pcs

**Pressure gauges**

- casing: high resistance ABS
- cover: scratch-resistant plastic
- dial: powder-coated aluminium
- type: pressure gauge with Bourdon tube spring
- dial diameter: 63 mm
- range: 0 - 6 bar
- connection: 1/4" brass - rear connection

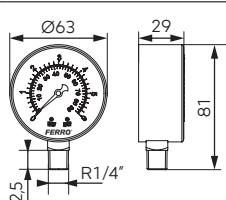
**Packaging****Index****M6306A**

individual

bulk

1 pcs

150 pcs

**Pressure gauges**

- casing: high resistance ABS
- cover: scratch-resistant plastic
- dial: powder-coated aluminium
- type: pressure gauge with Bourdon tube spring
- dial diameter: 63 mm
- range: 0 - 6 bar
- connection: 1/4" brass – side connection

**Packaging****Index****M6306R**

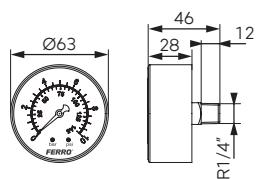
individual

bulk

1 pcs

120 pcs

PRESSURE GAUGES



Description

Pressure gauges

- casing: high resistance ABS
- cover: scratch-resistant plastic
- dial: powder-coated aluminium
- type: pressure gauge with Bourdon tube spring
- dial diameter: 63 mm
- range: 0 - 10 bar
- connection: 1/4" brass - rear connection



Packaging

Index

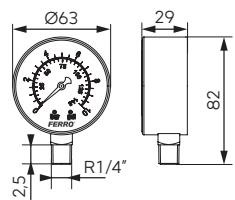
M6310A

individual

1 pcs

bulk

150 pcs



Pressure gauges

- casing: high resistance ABS
- cover: scratch-resistant plastic
- dial: powder-coated aluminium
- type: pressure gauge with Bourdon tube spring
- dial diameter: 63 mm
- range: 0 - 10 bar
- connection: 1/4" brass – side connection



Packaging

Index

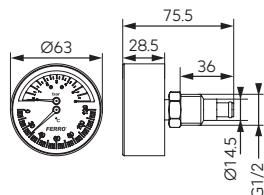
M6310R

individual

1 pcs

bulk

120 pcs

**Description****Thermomanometer**

- casing: high resistance ABS
- cover: scratch-resistant plastic
- dial: powder-coated aluminium
- mechanism:
 - pressure gauge - Bourdon tube spring
 - thermometer - bimetallic spiral
- 1/2' brass rear connector
- temperature range: 0 - 120°C
- pressure range: 0 - 6 bar
- dial diameter: 63 mm

**Packaging****Index**

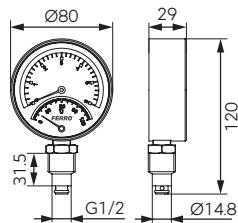
individual

bulk

TM63A

1 pcs

90 pcs

**Thermomanometer**

- casing: high resistance ABS
- cover: scratch-resistant plastic
- dial: powder-coated aluminium
- mechanism:
 - pressure gauge - Bourdon tube spring
 - thermometer - bimetallic spiral
- 1/2' brass side connector
- temperature range: 0 - 120°C
- pressure range: 0 - 6 bar
- dial diameter: 80 mm

**Packaging****Index**

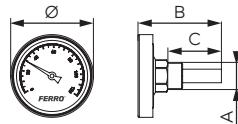
individual

bulk

TM80R

1 pcs

60 pcs

**Axial thermometer**

- rear brass connection
- casing: zinc-plated steel
- cover: scratch-resistant plastic
- dial: powder-coated aluminium
- mechanism: bimetallic spiral
- range: 0 - 120°C

**Packaging****Index**

individual

bulk

T40120A

1 pcs

400 pcs

T63120A

1 pcs

150 pcs

T80120A

1 pcs

80 pcs

T100120A

1 pcs

40 pcs

**Bar thermometer for central heating boilers**

- aluminium casing

**Packaging****Index**

individual

bulk

TK01E

1 pcs

200 pcs

TK12100

1 pcs

50 pcs

TK12150

1 pcs

50 pcs

TK34100

1 pcs

50 pcs

TK34150

1 pcs

50 pcs

Gas fittings

GAS FITTINGS



VALVES
63

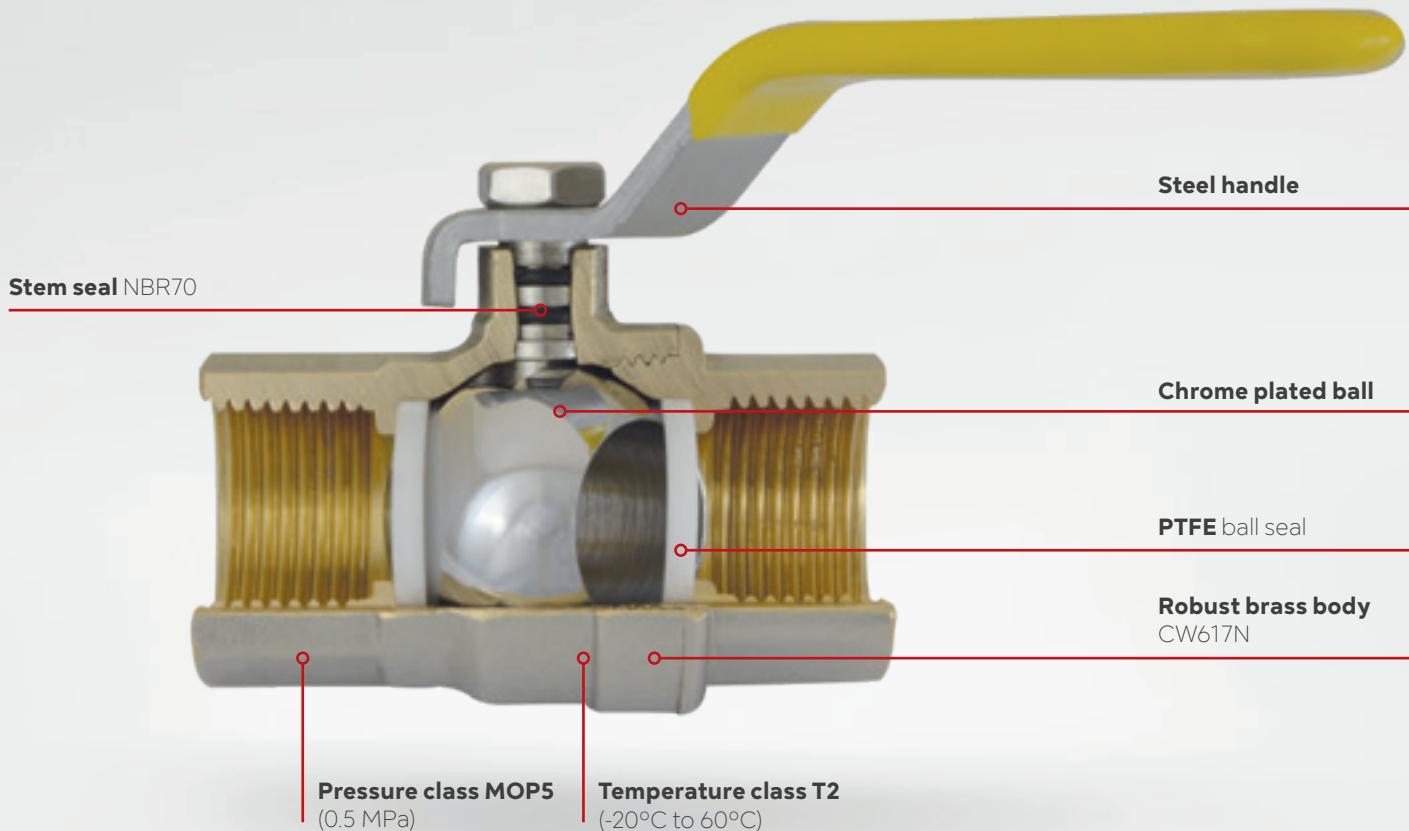


FILTERS
65



HOSES
66

Gas valves



Advantages:

- valves meet the requirements of European standards
- are made of high quality materials
- have a Certificate of Constancy of Performance

Certificates:

Gas ball valves have been tested and audited in the production plant by the Oil and Gas Institute - National Research Institute in Krakow. On the basis of these tests and the audit, the Certificate of Constancy of Performance was issued.

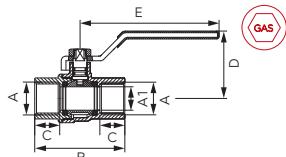
Operating parameters and scope of application:

- pressure class: MOP 5 (0.5 MPa)
- temperature class: T2 (-20°C to 60°C)
- gas family: 1, 2, 3

Workmanship and materials:

- body: high quality CW617N brass
- brass ball finish: chrome plated, polished
- ball seal: PTFE
- stem seal: double O-ring with NBR70 (on KGN models)
- PTFE and O-ring with NBR70 (KGS and KGMS models)
- lever: zinc-plated steel, yellow plastic-coated

GAS VALVES



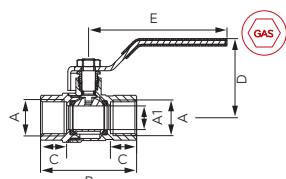
Description

Gas ball valve - type G61

- female - female
- handle: metal lever
- body and ball material: high quality brass CW617N
- ball sealing: PTFE
- stem seal: double O-ring with NBR70
- max. working pressure: MOP5 (0.5 MPa)
- working temperature: T2 (-20°C to 60°C)

Packaging

DN	A	A1 [mm]	B [mm]	C [mm]	D [mm]	E [mm]	Index	individual	bulk
15	Rp 1/2	15	57,7	16	43	89	KGN1	12 pcs	108 pcs
20	Rp 3/4	20	67	17	47	89	KGN2	9 pcs	81 pcs
25	Rp 1	25	80,8	20,5	61	112,3	KGN3	4 pcs	36 pcs
32	Rp 1 1/4	30,5	95,5	23	72,3	131,3	KGN4	2 pcs	18 pcs
40	Rp 1 1/2	38,5	105,5	23	78,4	131,3	KGN5	2 pcs	18 pcs
50	Rp 2	47,5	126	27,5	89,5	159,5	KGN6	2 pcs	12 pcs

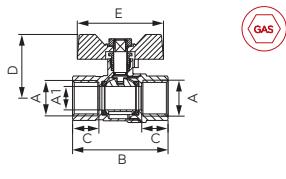


Gas ball valve - type G18

- female - female
- with gland
- handle: metal lever
- body and ball material: high quality brass CW617N
- ball sealing: PTFE
- stem sealing: PTFE and O-ring with NBR70
- max. working pressure: MOP5 (0.5 MPa)
- working temperature: T2 (-20°C to 60°C)

Packaging

DN	A	A1 [mm]	B [mm]	C [mm]	D [mm]	E [mm]	Index	individual	bulk
15	Rp 1/2	14	57	15,7	46,8	82	KGS1	14 pcs	126 pcs
20	Rp 3/4	19	64	17,3	48,5	104	KGS2	9 pcs	81 pcs
25	Rp 1	24	77,5	20,5	55,3	104	KGS3	9 pcs	54 pcs

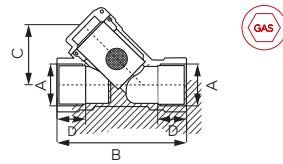


Gas ball valve - type G18

- female - female
- with gland
- handle: metal butterfly
- body and ball material: high quality brass CW617N
- ball sealing: PTFE
- stem sealing: PTFE and O-ring with NBR70
- max. working pressure: MOP5 (0.5 MPa)
- working temperature: T2 (-20°C to 60°C)

Packaging

DN	A	A1 [mm]	B [mm]	C [mm]	D [mm]	E [mm]	Index	individual	bulk
15	Rp 1/2	14	57	15,7	38	51,5	KGMS1	16 pcs	144 pcs
20	Rp 3/4	19	64	17,3	41	51,5	KGMS2	12 pcs	108 pcs
25	Rp 1	24	77,5	20,5	52,8	67	KGMS3	7 pcs	63 pcs



Description

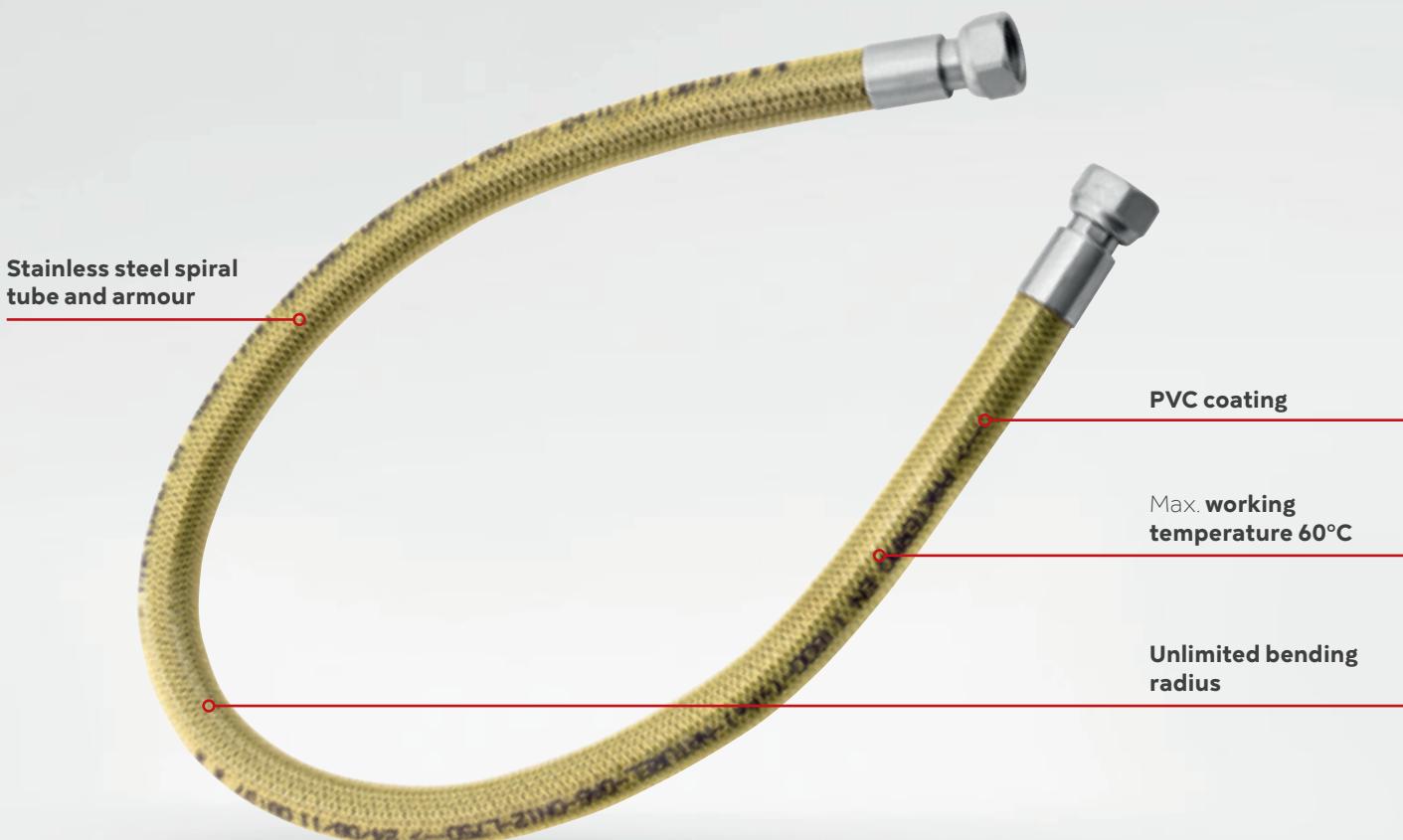
Mesh gas filter - type G41

- female - female
- body and plug material: high quality CW617N brass
- plug sealing: NBR
- filter cartridge: AISI 304 stainless steel
- filter cartridge hole diameter: 0.2 ± 0.02 mm
- max. working pressure: MOP 5 (0.5 MPa)
- working temperature: T2 (-20°C to 60°C)

Packaging

DN	A	B [mm]	C [mm]	D [mm]	Index	individual	bulk
15	Rp 1/2	67	33,6±1	min. 15,0	F2G	12 pcs	108 pcs
20	Rp 3/4	80	37,5±1	min. 16,3	F3G	8 pcs	72 pcs
25	Rp 1	85	45,6±1	min. 19,1	F6G	6 pcs	54 pcs
32	Rp 5/4	98	54,8±1	min. 21,4	F4G	2 pcs	18 pcs
40	Rp 6/4	116	58,7±1	min. 21,4	F5G	2 pcs	18 pcs
50	Rp 2	136	70,7±1	min. 25,7	F7G	2 pcs	12 pcs

Gas hoses



Advantages:

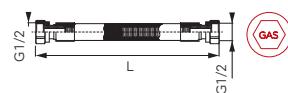
- available in a wide range of lengths - up to 200 cm
- available with three different types of connections, including an elbow connection
- unlimited bending radius

Operating parameters and scope of application:

- reaction to fire: B s2 d0
- working temperature T2 from -20°C to +60°C
- gas type: natural gas (2nd family gas fuels according to EN 437)
- max. working pressure: up to 0.5 bar
- in accordance with standard PN-EN 14800:2010
- application: for connecting domestic appliances inside and outside the apartments, with gas supply of a pressure lower than 0.5 bar. Suitable for use in locations subject to regulations on reaction to fire

Workmanship and materials:

- 3 types of protection:
PVC coating
stainless steel armour
stainless steel spiral tube
- Nominal diameter: DN12



Description

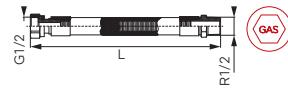
1/2" female - female gas hose with two rotating nuts and PVC sheath



Packaging

Index L [mm]

Index	L [mm]	individual	bulk
WG0500	500	1 pcs	50 pcs
WG0750	750	1 pcs	50 pcs
WG1000	1000	1 pcs	50 pcs
WG1250	1250	1 pcs	50 pcs
WG1500	1500	1 pcs	50 pcs
WG2000	2000	1 pcs	50 pcs



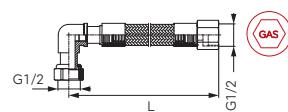
1/2" female - male gas hose with two rotating nuts and PVC sheath



Packaging

Index L [mm]

Index	L [mm]	individual	bulk
WGN0500	500	1 pcs	50 pcs
WGN0750	750	1 pcs	50 pcs
WGN1000	1000	1 pcs	50 pcs
WGN1250	1250	1 pcs	50 pcs
WGN1500	1500	1 pcs	50 pcs
WGN2000	2000	1 pcs	50 pcs



1/2" female - female gas hose with elbow connector

- rotating nuts and PVC sheath



Packaging

Index L [mm]

Index	L [mm]	individual	bulk
WGK0500	500	1 pcs	50 pcs
WGK0750	750	1 pcs	50 pcs
WGK1000	1000	1 pcs	50 pcs
WGK1250	1250	1 pcs	50 pcs
WGK1500	1500	1 pcs	50 pcs
WGK2000	2000	1 pcs	50 pcs

Control and safety fittings

CONTROL AND SAFETY FITTINGS



INSTALLATION FILLING
VALVES

69



THERMOSTATIC
MIXING VALVES

69



PRESSURE
REDUCERS

69



ANTI-CONTAMINATION
VALVES

70



SAFETY
VALVES

70



SAFETY
GROUPS

71



DRAUGHT REGULATING
DEVICES

73

**Description****1/2" automatic installation filling valve**

- with filter, check valve and manual shut-off
- outlet pressure regulation: 1-4 bar
- max. inlet pressure: 10 bar
- max. working temperature: 80°C
- 1/4" pressure gauge connection with union

**Packaging**

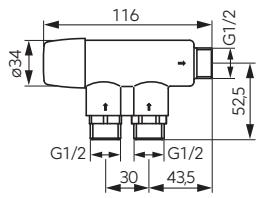
Index	Size of connectors	individual	bulk
ZN15	1/2"	1 pcs	25 pcs
ZN15M	1/2" with manometer	1 pcs	25 pcs

**Thermostatic mixing valve**

- Kv = 2.3 m³/h
- equipped with scalding protection
- regulation range: 30°C - 65°C
- max. working temperature: 90°C
- max. static pressure: 1.0 MPa (10 bar)
- accuracy of adjustment: ± 2°C

**Packaging**

Index	Size of connectors	individual	bulk
MT20S	3/4"	1 pcs	-
MT25S	1"	1 pcs	-

**1/2" thermostatic mixer for touchless mixers**

- permissible water temperature: 90°C
- permissible working pressure: 0.5 bar - 10.0 bar
- connection to water system: 3 x 1/2" MT
- temperature control range: 30-70°C
- check valves: 2 pcs. (on inlets)
- max. flow rate at Δp = 1.5 bar: 25 l/min
- Kvs: 1.2 m³/h
- stability of mixed temperature: 3°C with a hot water temperature change of 15°C
- protection against scalding: flow cut-off function in the absence of cold water
- additional security features: body with anti-scaling coating

**Packaging**

Index	individual	bulk
MT15B	1 pcs	-

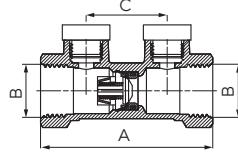
**Pressure reducer**

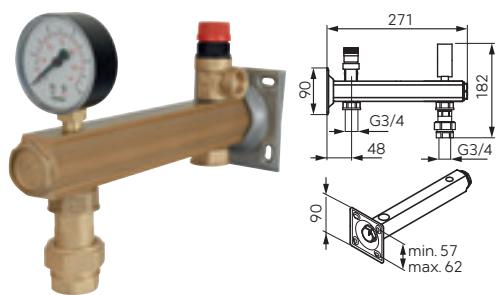
- outlet pressure regulation: 0.5 - 6 bar (factory setting: 3 bar)
- max. inlet pressure: 25 bar
- max. working temperature: 80°C
- with 1/4" pressure gauge connection
- with pipe unions

**Packaging**

Kv[m³/h]	Size	Index	individual	bulk
2,5	1/2"	RC15	1 pcs	24 pcs
3,1	3/4"	RC20	1 pcs	15 pcs
7	1"	RC25	1 pcs	10 pcs
12,5	1 1/4"	RC32	1 pcs	10 pcs
144	1 1/2"	RC40	1 pcs	10 pcs
178	2"	RC50	1 pcs	5 pcs
2,5	1/2" with manometer	RC15M	1 pcs	24 pcs
3,1	3/4" with manometer	RC20M	1 pcs	15 pcs
7	1" with manometer	RC25M	1 pcs	10 pcs

CONTROL AND SAFETY FITTINGS

Description							
			Packaging				
Kv[m³/h]	Size	Index	individual	bulk			
1,6	1/2"	RC15S	1 pcs	25 pcs			
1,85	3/4"	RC20S	1 pcs	25 pcs			
1,6	1/2" with manometer	RC15SM	1 pcs	25 pcs			
1,85	3/4" with manometer	RC20SM	1 pcs	25 pcs			
			 EAN				
Anti-contamination check valve							
			<ul style="list-style-type: none"> nominal pressure: 1.0 MPa (10 bar) working temperature: 65°C max. temperature: 90°C for 1 h working position: any class EA 				
			 EAN				
Packaging							
A [mm]	B	C [mm]	Index	individual	bulk		
68	G1/2	32	ZZA01	20 pcs	240 pcs		
78	G3/4	32	ZZA02	22 pcs	132 pcs		
90	G1	32	ZZA03	14 pcs	84 pcs		
110	G1 1/4	32	ZZA04	8 pcs	48 pcs		
120	G1 1/2	38	ZZA05	3 pcs	24 pcs		
150	G2	50	ZZA06	3 pcs	18 pcs		
			Safety valve for central heating and hot water installations <ul style="list-style-type: none"> max. working pressure: 10 bar max. working temperature: 110°C 				
			 EAN				
Packaging							
Setting [bar]	Size	Index	individual	bulk			
1,5	1/2" x 1/2"	Z1515	1 pcs	25 pcs			
2,5	1/2" x 1/2"	Z1525	1 pcs	25 pcs			
2,5	3/4" x 3/4"	Z2025	1 pcs	25 pcs			
3	1/2" x 1/2"	Z1530	1 pcs	25 pcs			
3	3/4" x 3/4"	Z2030	1 pcs	25 pcs			
6	1/2" x 1/2"	Z1560	1 pcs	25 pcs			
6	3/4" x 3/4"	Z2060	1 pcs	25 pcs			
8	1/2" x 1/2"	Z1580	1 pcs	25 pcs			
			Safety valve for central heating and hot water installations <ul style="list-style-type: none"> M-F threads max. working pressure: 10 bar max. working temperature: 110°C 				
			 EAN				
Packaging							
Setting [bar]	Size	Index	individual	bulk			
1,5	1/2" x 1/2"	Z1515MF	1 pcs	50 pcs			
2,5	1/2" x 1/2"	Z1525MF	1 pcs	50 pcs			
3	1/2" x 1/2"	Z1530MF	1 pcs	50 pcs			
6	1/2" x 1/2"	Z1560MF	1 pcs	50 pcs			

**Description****Safety groups for DHW**

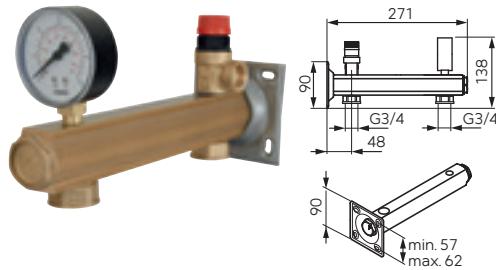
- max. working temperature: 95°C
- max. working pressure: 6 bar
- max. instantaneous water temperature: 110°C
- for expansion vessels with a capacity up to 35 l and a diameter not more than 320 mm
- CW617N brass beam
- stainless steel mounting plate

accessories:

- safety valve
- pressure gauge
- with a quick-connector for expansion vessels

**Packaging**

Safety valve	Pressure gauges	Index	Packaging
6 bar	0-10 bar	GBMW60SN01	individual 1 pcs

**Safety groups for DHW**

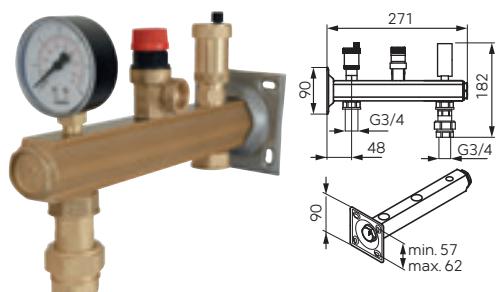
- max. working temperature: 95°C
- max. working pressure: 6 bar
- max. instantaneous water temperature: 110°C
- for expansion vessels with a capacity up to 35 l and a diameter not more than 320 mm
- CW617N brass beam
- stainless steel mounting plate

accessories:

- safety valve
- pressure gauge

**Packaging**

Safety valve	Pressure gauges	Index	Packaging
6 bar	0-10 bar	GBMW60	individual 1 pcs

**Safety groups for central heating**

- max. working temperature: 95°C
- max. working pressure: 6 bar
- max. instantaneous water temperature: 110°C
- for expansion vessels with a capacity up to 35 l and a diameter not more than 320 mm
- CW617N brass beam
- stainless steel mounting plate

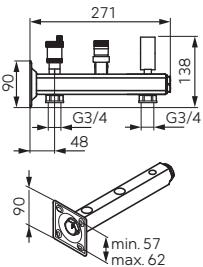
accessories:

- safety valve
- pressure gauge
- automatic air vent with foot valve
- with a quick-connector for expansion vessels

**Packaging**

Safety valve	Pressure gauges	Index	Packaging
1,5 bar	0-4 bar	GBM15SN01	1 pcs
2,5 bar	0-4 bar	GBM25SN01	1 pcs
3 bar	0-6 bar	GBM30SN01	1 pcs

CONTROL AND SAFETY FITTINGS



Description

Safety groups for central heating

- max. working temperature: 95°C
- max. working pressure: 6 bar
- max. instantaneous water temperature: 110°C
- for expansion vessels with a capacity up to 35 l and a diameter not more than 320 mm
- CW617N brass beam
- stainless steel mounting plate

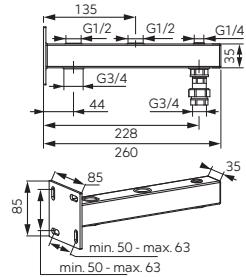
accessories:

- safety valve
- pressure gauge
- automatic air vent with foot valve



Packaging

Safety valve	Pressure gauges	Index	individual	bulk
1,5 bar	0-4 bar	GBM15	1 pcs	-
2,5 bar	0-4 bar	GBM25	1 pcs	-
3 bar	0-6 bar	GBM30	1 pcs	-



Safety group sets

- The safety group set is a system protecting the installation against dangerous pressure increase caused by water temperature increase and its thermal expansion.
- working temperature: 95°C
- working pressure: up to 6 bar
- max. instantaneous water temperature: 110°C
- for expansion vessels with a capacity up to 35 l and a diameter not more than 320 mm
- 2 mm thick steel beam

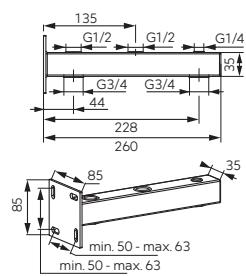
Self-assembly kit. The set includes:

- safety valve
- pressure gauge
- automatic air vent with foot valve
- quick connector for expansion vessel



Packaging

Safety valve	Pressure gauges	Index	individual	bulk
3 bar	0-6 bar	GB30SN01	1 pcs	-



Safety group sets

- The safety group set is a system protecting the installation against dangerous pressure increase caused by water temperature increase and its thermal expansion.
- working temperature: 95°C
- working pressure: up to 6 bar
- max. instantaneous water temperature: 110°C
- for expansion vessels with a capacity up to 35 l and a diameter not more than 320 mm
- 2 mm thick steel beam

Self-assembly kit. The set includes:

- safety valve
- pressure gauge
- automatic air vent with foot valve



Packaging

Safety valve	Pressure gauges	Index	individual	bulk
1,5 bar	0-4 bar	GB15	1 pcs	-
2,5 bar	0-4 bar	GB25	1 pcs	-
3 bar	0-6 bar	GB30	1 pcs	-
6 bar	0-10 bar	GB60	1 pcs	-

**Description****Boiler safety valve with check valve**

Bar		Index	Packaging		Retail (bags)
			individual	bulk	
6	1/2"	Z1560B	1 pcs	50 pcs	Z1560BE
6	3/4"	Z2060B	1 pcs	50 pcs	
8	1/2"	Z1580B	1 pcs	50 pcs	
8	3/4"	Z2080B	1 pcs	50 pcs	

**3/4" draft regulator**

- temperature control range: 30°C - 100°C
- chain length: 1200 mm
- can be mounted vertically and horizontally

**Packaging**

Index	individual	bulk
MC20	1 pcs	-

Expansion vessels

EXPANSION VESSELS



VESSELS FOR HEATING SYSTEMS
75



VESSELS FOR SOLAR SYSTEMS
78



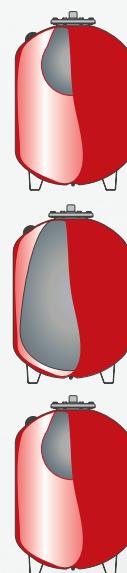
VESSELS FOR DHW
79



ACCESSORIES
81

Expansion vessels

for central heating

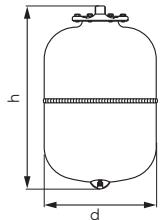


When the system is turned on, the temperature of the water increases and thus it increases also its volume. Water fills the membrane that enlarges by filling gradually the vessel.

The volume of water increases until it reaches maximum working temperature. Then the membrane takes up practically the entire inside of the tank. An airbag stabilizes the pressure and the membrane prevents direct contact between water and the internal surface of the tank.

When the temperature gradually drops and the volume of water is reduced, it is pushed out from the tank until the membrane reaches its initial volume at that point a new cycle begins.

VESSELS FOR HEATING SYSTEMS



Description

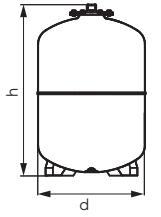
Vessels for heating systems - hanging

- max. working pressure: 8 bar
- precharge pressure: 1.5 bar
- working temperature: from -10°C to +100°C
- membrane (replaceable): EPDM
- colour: RAL 3000



Packaging

Model	h [mm]	d [mm]	Connection	Volume [l]	Index	individual	bulk
R5	300	160	3/4"	5	CO5W	1 pcs	-
R8	316	200	3/4"	8	CO8W	1 pcs	-
R12	295	280	3/4"	12	CO12W	1 pcs	-
R18	430	280	3/4"	18	CO18W	1 pcs	-
R24	483	280	3/4"	24	CO24W	1 pcs	-
R35	440	365	3/4"	35	CO35W	1 pcs	-
R50	585	365	3/4"	50	CO50W	1 pcs	-



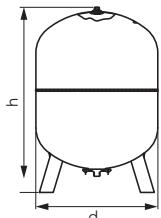
Vessels for heating systems - standing

- max. working pressure: 8 bar
- precharge pressure: 1.5 bar
- working temperature: from -10°C to +100°C
- membrane (replaceable): EPDM
- colour: RAL 3000



Packaging

Model	h [mm]	d [mm]	Connection	Volume [l]	Index	individual	bulk
RV35	450	365	3/4"	35	CO35S	1 pcs	-
RV50	582	365	3/4"	50	CO50S	1 pcs	-
RV60	668	365	3/4"	60	CO60S	1 pcs	-
RV80	717	415	1"	80	CO80S	1 pcs	-
RV100	663	495	1"	100	CO100S	1 pcs	-
RV150	795	550	1"	150	CO150S	1 pcs	-



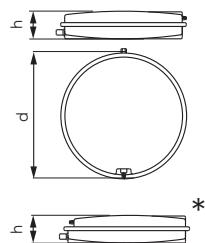
Vessels for heating systems - standing

- max. working pressure: 8 bar
- precharge pressure: 1.5 bar
- working temperature: from -10°C to +100°C
- membrane (replaceable): EPDM
- colour: RAL 3000



Packaging

Model	h [mm]	d [mm]	Connection	Volume [l]	Index	individual	bulk
RV200	1081	600	1"	200	CO200S	1 pcs	-
RV250	1051	650	1"	250	CO250S	1 pcs	-
RV300	1212	650	1"	300	CO300S	1 pcs	-
RV400	1198	750	1 1/4"	400	CO400S	1 pcs	-
RV500	1438	750	1 1/4"	500	CO500S	1 pcs	-



Description

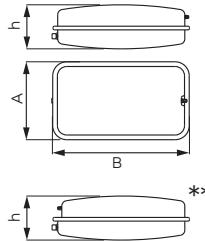
Flat vessels for heating systems

- max. working pressure: 3 bar
- precharge pressure: 1.5 bar
- working temperature: from -10°C to + 90°C
- membrane: SBR
- colour: galvanized steel



Packaging

Model	h [mm]	d [mm]	Connection	Volume [l]	Index	Packaging	individual	bulk
VCP387-6	60	387	3/8"	6	CO6PL7		1 pcs	-
VCP387-8	85	387	3/8"	8	CO8PL7		1 pcs	-
VCP387-10	100	387	3/4"	10	CO10PL7		1 pcs	-
VCP387-12	120	387	3/4"	12	CO12PL7		1 pcs	-
VCP387-18	180	387	3/4"	18	CO18PL7		1 pcs	-



Flat vessels for heating systems

- max. working pressure: 3 bar
- precharge pressure: 1.5 bar
- working temperature: from -10°C to + 90°C
- membrane: SBR
- colour: galvanized steel



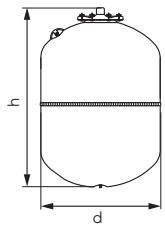
Packaging

Model	h [mm]	AxB [mm]	Connection	Volume [l]	Index	Packaging	individual	bulk
VRP205-8	110	200x515	3/4"	8	CO8PR		1 pcs	-
VRP205-10	120	200x515	3/4"	10	CO10PR		1 pcs	-
VRP205-12	145	200x515	3/4"	12	CO12PR		1 pcs	-

* refers to: CO12PL5, CO10PL7, CO18PL

** refers to: CO12PR

VESSELS FOR SOLAR SYSTEMS



Description

Vessels for solar installations – hanging

- max. working pressure: 10 bar
- precharge pressure: 2.5 bar
- working temperature: from -10°C to +140°C
- membrane (replaceable): EPDM HT
- colour: RAL 9010



EAN

Packaging

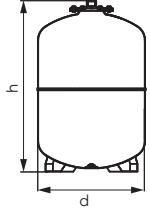
Model	h [mm]	d [mm]	Connection	Volume [l]
S8	316	200	3/4"	8
S12	295	280	3/4"	12
S18	430	280	3/4"	18
S24	483	280	3/4"	24

Index

- SO8W**
SO12W
SO18W
SO24W

Packaging

- individual
1 pcs
- bulk
-



Vessels for solar installations – standing

- max. working pressure: 10 bar
- precharge pressure: 2.5 bar
- working temperature: from -10°C to +140°C
- membrane (replaceable): EPDM HT
- colour: RAL 9010

SO



EAN

Packaging

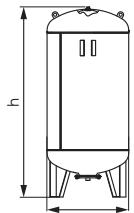
Model	h [mm]	d [mm]	Connection	Volume [l]
SV35	450	365	3/4"	35
SV50	582	365	3/4"	50
SV80	717	415	1"	80
SV100	663	495	1"	100
SV150	795	550	1"	150

Index

- SO35S**
SO50S
SO80S
SO100S
SO150S

Packaging

- individual
1 pcs
- bulk
-



Vessels for solar installations – standing

- max. working pressure: 10 bar
- precharge pressure: 2.5 bar
- working temperature: from -10°C to +140°C
- membrane (replaceable): EPDM HT
- colour: RAL 9010

SO



EAN

Packaging

Model	h [mm]	d [mm]	Connection	Volume [l]
SV200	1085	600	1"	200
SV300	1212	650	1"	300

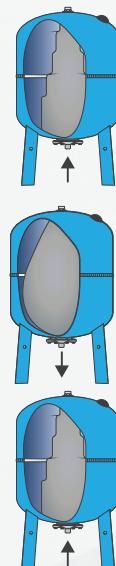
Index

- SO200S**
SO300S

Packaging

- individual
1 pcs
- bulk
-

Expansion vessels for domestic water

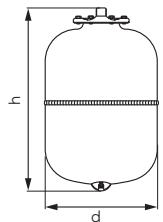


The membrane separates the water from the walls of the vessel, prevents corrosion and contamination of the installation and stabilizes the pressure. The first time the tank is connected to the system, the hydrophore pump is started, the pressure increases and the water fills the membrane.

When the pressure reaches its maximum value, the pump stops. At that point the tank contains the maximum amount of water. The diaphragm expands and occupies almost the entire volume of the tank. When water is drawn, it starts to flow out of the tank without the need for the pump to operate, using the air cushion pressure.

The process continues, the diaphragm shrinks and the pressure drops to a minimum. The diaphragm returns to its original size the pump restarts and a new cycle begins. Since the tank always ensures maximum water flow, the pump's operating periods are reduced to a minimum.

VESSELS FOR DHW



Description

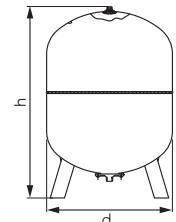
Sanitary water vessels - hanging

- max. working pressure: 10 bar
- pre-pressure: 3 bar
- working temperature: from -10°C to +100°C
- membrane (replaceable): EPDM
- colour: RAL 5015 (for M2: RAL 9010)



Packaging

Model	h [mm]	d [mm]	Connection	Volume [l]	Index	individual	bulk
M2	250	120	3/4"	2	CWU2W	1 pcs	-
A5	300	160	3/4"	5	CWU5W	1 pcs	-
A8	316	200	3/4"	8	CWU8W	1 pcs	-
A12	295	280	3/4"	12	CWU12W	1 pcs	-
A18	430	280	3/4"	18	CWU18W	1 pcs	-
A24	483	280	3/4"	24	CWU24W	1 pcs	-
A35	440	365	1"	35	CWU35W	1 pcs	-



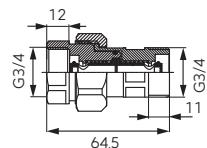
Sanitary water vessels - standing

- max. working operating pressure: 10 bar
- pre-pressure: 1.5 bar
- for AV200 and AV300 models: 2 bar
- working temperature: from -10°C to +100°C
- membrane (replaceable): EPDM
- colour: RAL 5015



Packaging

Model	h [mm]	d [mm]	Connection	Volume [l]	Index	individual	bulk
AV50	720	365	1"	50	CWU50S	1 pcs	-
AV60	808	365	1"	60	CWU60S	1 pcs	-
AV80	856	415	1	80	CWU80S	1 pcs	-
AV100	855	495	1"	100	CWU100S	1 pcs	-
AV150	975	550	1"	150	CWU150S	1 pcs	-
AV200	1085	600	1 1/4"	200	CWU200S	1 pcs	-
AV300	1240	650	1 1/4"	300	CWU300S	1 pcs	-



Description

3/4" quick connector for expansion vessel



Packaging

Retail

Index	individual	bulk	Index
SN01	12 pcs	96 pcs	SN01W



Mounting strap for hanging vessels 8-351



Packaging

bulk

Index	individual	bulk
TNACZ	1 pcs	50 pcs

Fittings

BRASS FITTINGS



RAW BRASS FITTINGS

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CHROME PLATED BRASS FITTINGS

88



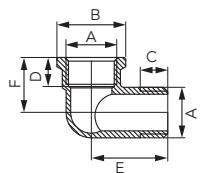
BRASS UNIONS

91



PUMP HALF UNION

94



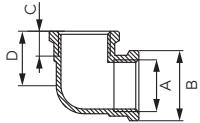
Description

Elbow female - male



Packaging

A	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Index	Packaging
G3/8	22,5	9	8,5	24,5	17	K09Z	individual 10 pcs bulk 600 pcs
G1/2	27	10,5	11	29	22	K12Z	10 pcs 300 pcs
G3/4	34	12,5	13	33,5	28	K10Z	10 pcs 160 pcs
G1	40	13	14	38	32	K11Z	5 pcs 90 pcs
G1 1/4	49	15	15	45	37	K13Z	5 pcs 50 pcs
G1 1/2	55	16	16	48	40	K14Z	5 pcs 40 pcs
G2	68	19	20	62	52	K15Z	1 pcs 20 pcs

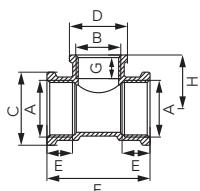


Elbow female - female



Packaging

A	B [mm]	C [mm]	D [mm]	Index	Packaging
G3/8	22,5	8,5	17,5	K02Z	individual 10 pcs bulk 600 pcs
G1/2	27	11	22	K03Z	10 pcs 300 pcs
G3/4	34	13,5	28	K04Z	10 pcs 150 pcs
G1	40	14	32	K05Z	5 pcs 100 pcs
G1 1/4	49	16	38	K06Z	5 pcs 50 pcs
G1 1/2	55	16	40,5	K07Z	5 pcs 40 pcs
G2	68	20	51	K08Z	1 pcs 20 pcs



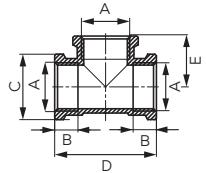
Reduction tee female



Packaging

A	B	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	Index	Packaging
G3/4	G1/2	34	27	13	48	11	25	T08Z	individual 10 pcs bulk 150 pcs
G1	G1/2	40	27	14	52	11	27,5	T09Z	5 pcs 80 pcs
G1	G3/4	40	34	14	57	13,5	30	T10Z	5 pcs 60 pcs

RAW BRASS FITTINGS



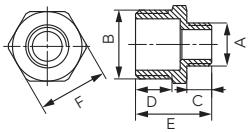
Description

Tee female



Packaging

A	B [mm]	C [mm]	D [mm]	E [mm]	Index	individual	bulk
G3/8	8,5	22,5	35	17,5	T01Z	10 pcs	350 pcs
G1/2	11	27	44	22	T02Z	10 pcs	180 pcs
G3/4	13,5	34	56	28	T03Z	10 pcs	100 pcs
G1	14	40	64	32	T04Z	5 pcs	70 pcs
G1 1/4	16	49	76	38	T05Z	5 pcs	40 pcs
G1 1/2	16	55	81	40,5	T06Z	5 pcs	30 pcs
G2	20	68	102	51	T07Z	1 pcs	18 pcs

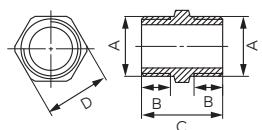


Reduction nipple



Packaging

A	B	C [mm]	D [mm]	E [mm]	F [mm]	Index	individual	bulk
G1/4	G1/2	7,5	11	23	21	N09Z	10 pcs	800 pcs
G3/8	G1/2	9	11	24,5	21	N11Z	10 pcs	700 pcs
G1/2	G3/4	11,5	12,5	29	26,5	N10Z	10 pcs	400 pcs
G1/2	G1	11,5	14	30	33,5	N12Z	5 pcs	320 pcs
G3/4	G1	12	14	31	33	N13Z	5 pcs	280 pcs
G3/4	G1 1/4	13	16	34,5	42	N14Z	5 pcs	150 pcs
G1	G1 1/4	13,5	16	35	42	N15Z	5 pcs	150 pcs
G1	G1 1/2	13	16,5	35	48,5	N16Z	5 pcs	110 pcs
G1 1/4	G1 1/2	16	16,5	38	48,5	N17Z	5 pcs	100 pcs
G1	G2	14	20	40	60	N18Z	1 pcs	48 pcs
G1 1/4	G2	16	20	40	60	N19Z	1 pcs	48 pcs
G1 1/2	G2	16,5	20	42,5	60	N20Z	1 pcs	48 pcs

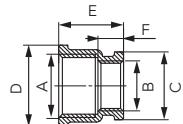


Nipple



Packaging

A	B [mm]	C [mm]	D [mm]	Index	individual	bulk
G3/8	9	22,5	18	N02Z	10 pcs	1000 pcs
G1/2	10,5	25,5	23	N03Z	10 pcs	600 pcs
G3/4	12	29	28	N04Z	10 pcs	380 pcs
G1	13	31,5	35	N05Z	5 pcs	200 pcs
G1 1/4	15	31,5	44	N06Z	5 pcs	120 pcs
G1 1/2	16,5	39	50	N07Z	5 pcs	90 pcs
G2	19	45	62	N08Z	1 pcs	48 pcs



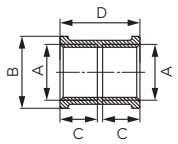
Description

Reduction muff



Packaging

A	B	C [mm]	D [mm]	E [mm]	F [mm]	Index	individual	bulk
G1/2	G3/8	22,5	27	3,05	85	M08Z	10 pcs	470 pcs
G3/4	G1/2	27	34	26	11,5	M09Z	10 pcs	350 pcs
G1	G3/4	27	40	28	12	M10Z	5 pcs	150 pcs
G1	G1/2	34	40	29	13	M11Z	5 pcs	280 pcs
G1 1/4	G1	40	49	33	14,5	M12Z	5 pcs	130 pcs
G1 1/2	G1	40	56	33	13,5	M13Z	5 pcs	100 pcs
G1 1/2	G1 1/4	49	56	35	16,5	M14Z	5 pcs	85 pcs
G2	G1	40	70	37	14	M15Z	1 pcs	60 pcs
G2	G1 1/4	49	70	39	16	M16Z	1 pcs	60 pcs
G2	G1 1/2	55	70	40	17	M17Z	1 pcs	60 pcs

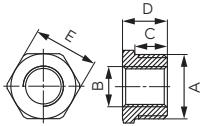


Muff



Packaging

A	B [mm]	C [mm]	D [mm]	Index	individual	bulk
G3/8	22,5	12	25	M01Z	10 pcs	700 pcs
G1/2	27	14	30	M02Z	10 pcs	400 pcs
G3/4	34	16	34	M03Z	10 pcs	200 pcs
G1	41	17	36	M04Z	10 pcs	140 pcs
G1 1/4	49,5	20	43	M05Z	5 pcs	80 pcs
G1 1/2	57	25	53	M06Z	5 pcs	50 pcs
G2	70	27	65	M07Z	1 pcs	30 pcs



Reduction



Packaging

A	B	C [mm]	D [mm]	E [mm]	Index	individual	bulk
G1/2	G1/4	10,5	14,5	21	R01Z	10 pcs	1000 pcs
G1/2	G3/8	10,5	14,5	21	R02Z	10 pcs	1000 pcs
G3/4	G1/2	11	16	26,5	R03Z	10 pcs	700 pcs
G1	G3/4	12	17,5	35	R04Z	5 pcs	320 pcs
G1	G1/2	14	19,5	42	R06Z	5 pcs	400 pcs
G1 1/4	G3/4	15	20,5	48,5	R09Z	5 pcs	200 pcs
G1 1/4	G1	12	17,5	35	R05Z	5 pcs	240 pcs
G1 1/2	G1	14	19,5	42	R07Z	5 pcs	170 pcs
G1 1/2	G1 1/4	15	20,5	48,5	R08Z	5 pcs	170 pcs
G2	G1	19	25,5	60	R10Z	1 pcs	80 pcs
G2	G1 1/4	19	25,5	60	R11Z	1 pcs	80 pcs
G2	G1 1/2	19	25,5	60	R12Z	1 pcs	80 pcs

RAW BRASS FITTINGS

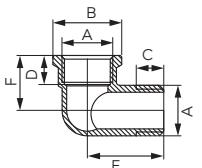
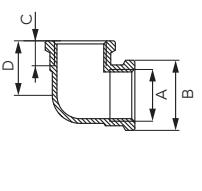
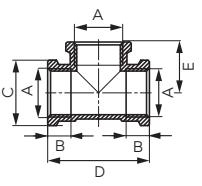
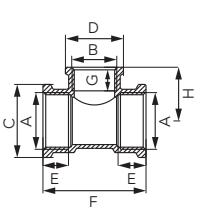
Description						
					Packaging	
A	B [mm]	C [mm]	D [mm]	K [mm]	Index	
G3/8	8	13	-	17	KOR2Z	individual 10 pcs bulk 1000 pcs
G1/2	9	18	23	10	KOR3Z	10 pcs 1000 pcs
G3/4	11	20	30	13	KOR4Z	10 pcs 550 pcs
G1	11,5	21,5	37	16	KOR5Z	5 pcs 350 pcs
G1 1/4	12,5	25,5	45	22	KOR6Z	5 pcs 200 pcs
G1 1/2	13	28,5	52	23	KOR7Z	5 pcs 140 pcs
G2	17	34,5	63	30	KOR8Z	1 pcs 60 pcs

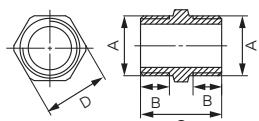
Description						
					Packaging	
A	B [mm]	C [mm]	D [mm]	F [mm]	Index	
G3/8	9	11	19	12	ZAS1Z	individual 10 pcs bulk 1000 pcs
G1/2	10	12	24	12	ZAS2Z	10 pcs 1000 pcs
G3/4	11,5	13,5	30	12	ZAS3Z	10 pcs 600 pcs
G1	13	15	36	12	ZAS4Z	5 pcs 350 pcs
G1 1/4	13	15	45,5	12	ZAS5Z	5 pcs 220 pcs
G1 1/2	13,5	16	52	12	ZAS6Z	5 pcs 200 pcs
G2	16,5	19	63,5	12	ZAS7Z	1 pcs 96 pcs

Description						
					Packaging	
A	B [mm]	L [mm]	D [mm]	E [mm]	Index	
G1	15	107	25	12	KR107Z	individual 1 pcs bulk 60 pcs
G1	15	165	25	12	KR165Z	1 pcs 48 pcs

Description						
Extension					Packaging	
A	B [mm]	C [mm]	L [mm]	Index	individual	bulk
G1/2	10	8,5	10	G1/2 x 10 mm	P10Z	10 pcs
G3/4	12	8	10	G3/4 x 10 mm	P110Z	10 pcs
G1/2	10	12	15	G1/2 x 15 mm	P15Z	10 pcs
G3/4	12	13	15	G3/4 x 15 mm	P115Z	10 pcs
G1/2	10	12	20	G1/2 x 20 mm	P20Z	10 pcs
G3/4	12	15	20	G3/4 x 20 mm	P120Z	10 pcs
G1/2	10	12	25	G1/2 x 25 mm	P25Z	10 pcs
G3/4	12	15	25	G3/4 x 25 mm	P125Z	10 pcs
G1/2	10	12	30	G1/2 x 30 mm	P30Z	10 pcs
G3/4	12	15	30	G3/4 x 30 mm	P130Z	10 pcs
G1/2	10	12	40	G1/2 x 40 mm	P40Z	10 pcs
G3/4	12	15	40	G3/4 x 40 mm	P140Z	10 pcs
G1/2	10	12	50	G1/2 x 50 mm	P50Z	10 pcs
G3/4	12	15	50	G3/4 x 50 mm	P150Z	10 pcs
G1/2	10	12	60	G1/2 x 60 mm	P60Z	5 pcs
G3/4	12	15	60	G3/4 x 60 mm	P160Z	5 pcs
<hr/>						
						
Reduction female – male					Packaging	
A	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Index
G1/4	G3/8	8	10	20	20	RN01Z
G3/8	G1/2	8,5	11	21,5	24	RN02Z
G1/2	G3/4	11	12	25	30	RN03Z
G1/2	G1	11	13,5	28	37	RN04Z
G3/4	G1	12	14,5	29	37	RN05Z
G1	G1 1/4	13	16	32	46	RN06Z
<hr/>						
						
Tee for assembling temperature sensor					Packaging	
<ul style="list-style-type: none"> max. working temperature: 95°C max. working pressure: 1.0 MPa (10 bar) 						
A	B [mm]	C [mm]	D [mm]	E [mm]	Index	Detail
G1/2	44,1	56,0	14,5	24,9	1/2" x M10x1	SGT1
G3/4	43,8	64,0	18,0	31,5	3/4" x M10x1	SGT2

CHROME PLATED BRASS FITTINGS

Description										
Elbow female - male										
			Packaging							
A	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Index	individual bulk			
G3/8	22,5	9	8,5	24,5	17	K09C	1 pcs 25 pcs			
G1/2	27	10,5	11	29	22	K12C	1 pcs 10 pcs			
G3/4	34	12,5	13	33,5	28	K10C	1 pcs 10 pcs			
Elbow female - female										
			Packaging							
A	B [mm]	C [mm]	D [mm]	Index	individual bulk					
G3/8	22,5	8,5	17,5	K02C	1 pcs 25 pcs					
G1/2	27	11	T22	K03C	1 pcs 10 pcs					
G3/4	34	13,5	28	K04C	1 pcs 10 pcs					
Tee female										
			Packaging							
A	B [mm]	C [mm]	D [mm]	E [mm]	Index	individual bulk				
G3/8	8,5	22,5	35	17,5	T01C	1 pcs 25 pcs				
G1/2	11	27	44	22	T02C	1 pcs 10 pcs				
G3/4	13,5	34	56	28	T03C	1 pcs 10 pcs				
Reduction tee female										
			Packaging							
A	B	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	Index	individual bulk	
G3/4	G1/2	34	27	13	28	11	25	T08C	1 pcs	10 pcs



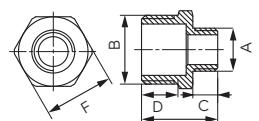
Description

Nipple



Packaging

A	B [mm]	C [mm]	D [mm]	Index	Packaging	
G3/8	9	22,5	18	N02C	1 pcs	25 pcs
G1/2	10,5	22,5	23	N03C	1 pcs	25 pcs
G3/4	12	29	28	N04C	1 pcs	10 pcs

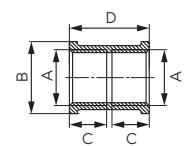


Reduction nipple



Packaging

A	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Index	Packaging	
G1/4	G1/2	7,5	11	23	21	N09C	1 pcs	25 pcs
G3/8	G1/2	9	11	24,5	21	N11C	1 pcs	10 pcs
G1/2	G3/4	11,5	12,5	29	26,5	N10C	1 pcs	25 pcs

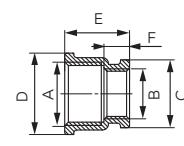


Muff



Packaging

A	B [mm]	C [mm]	D [mm]	Index	Packaging	
G3/8	22,5	12	25	M01C	1 pcs	25 pcs
G1/2	27	14	30	M02C	1 pcs	25 pcs
G3/4	34	16	34	M03C	1 pcs	10 pcs



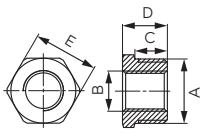
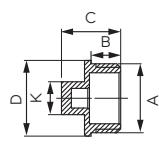
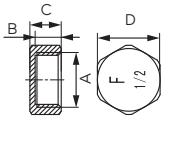
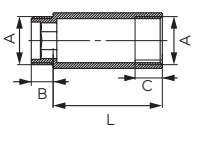
Reduction muff

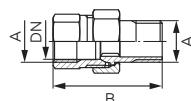


Packaging

A	B [mm]	C [mm]	D [mm]	E [mm]	Index	Packaging	
G1/2	G3/8	22,5	27	21,5	M08C	1 pcs	25 pcs
G3/4	G1/2	27	34	11,5	M09C	1 pcs	10 pcs

CHROME PLATED BRASS FITTINGS

Description						
					Reduction	
						
						Packaging
A	B [mm]	C [mm]	D [mm]	E [mm]	Index	individual bulk
G1/2	G1/4	10,5	14,5	21	R01C	1 pcs 25 pcs
G1/2	G3/8	10,5	14,5	21	R02C	1 pcs 10 pcs
G3/4	G1/2	11	16	26,5	R03C	1 pcs 10 pcs
Plug						
						
						Packaging
A	B [mm]	C [mm]	D [mm]	K [mm]	Index	individual bulk
G1/2	9	18	23	10	KOR3C	1 pcs 10 pcs
G3/4	11	20	30	13	KOR4C	1 pcs 10 pcs
Cap						
						
						Packaging
A	B [mm]	C [mm]	D [mm]	K [mm]	Index	individual bulk
G1/2	9	18	23	10	ZAS2C	1 pcs 25 pcs
G3/4	11	20	30	13	ZAS3C	1 pcs 10 pcs
Extension						
						
						Packaging
A	B [mm]	C [mm]	L [mm]		Index	individual bulk
G1/2	10	8,5	10	G1/2 x 10 mm	P10C	1 pcs 25 pcs
G3/4	12	8	10	G3/4 x 10 mm	P110C	1 pcs 25 pcs
G1/2	10	12	15	G1/2 x 15 mm	P15C	1 pcs 25 pcs
G3/4	12	13	15	G3/4 x 15 mm	P115C	1 pcs 25 pcs
G1/2	10	12	20	G1/2 x 20 mm	P20C	1 pcs 25 pcs
G3/4	12	15	20	G3/4 x 20 mm	P120C	1 pcs 25 pcs
G1/2	10	12	25	G1/2 x 25 mm	P25C	1 pcs 25 pcs
G3/4	12	15	25	G3/4 x 25 mm	P125C	1 pcs 25 pcs
G1/2	10	12	30	G1/2 x 30 mm	P30C	1 pcs 10 pcs
G3/4	12	15	30	G3/4 x 30 mm	P130C	1 pcs 10 pcs
G1/2	10	12	40	G1/2 x 40 mm	P40C	1 pcs 10 pcs
G3/4	12	15	40	G3/4 x 40 mm	P140C	1 pcs 10 pcs
G1/2	10	12	50	G1/2 x 50 mm	P50C	1 pcs 10 pcs
G3/4	12	15	50	G3/4 x 50 mm	P150C	1 pcs 10 pcs



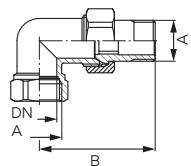
Description

Straight pipe union without O-ring



Packaging

DN	A	B [mm]	Index	individual	bulk
10	G3/8	41,5	3/8"	SG1	1 pcs
15	G1/2	45,7	1/2"	SG2	1 pcs
20	G3/4	50,5	3/4"	SG3	1 pcs
25	G1	59	1"	SG7	1 pcs
32	G1 1/4	64	1 1/4"	SG9	1 pcs

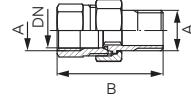


Angle pipe union without O-ring



Packaging

DN	A	B [mm]	Index	individual	bulk
10	G3/8	47	3/8"	SG4	1 pcs
15	G1/2	52,2	1/2"	SG5	1 pcs
20	G3/4	59	3/4"	SG6	1 pcs
25	G1	72	1"	SG8	1 pcs
32	G1 1/4	81,2	1 1/4"	SG10	1 pcs

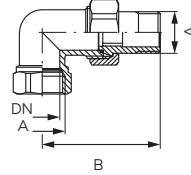


Straight pipe union with O-ring



Packaging

DN	A	B [mm]	Index	individual	bulk
10	G3/8	41,5	3/8"	SGU1	1 pcs
15	G1/2	45,7	1/2"	SGU2	1 pcs
20	G3/4	50,5	3/4"	SGU3	1 pcs
25	G1	59	1"	SGU7	1 pcs
32	G1 1/4	63	1 1/4"	SGU9	1 pcs



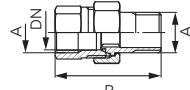
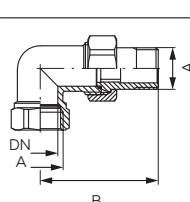
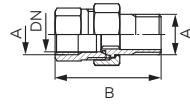
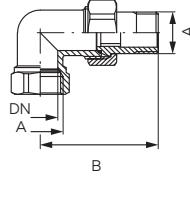
Angle pipe union with O-ring



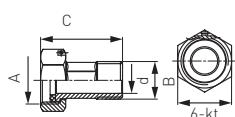
Packaging

DN	A	B [mm]	Index	individual	bulk
10	G3/8	47	3/8"	SGU4	1 pcs
15	G1/2	52,5	1/2"	SGU5	1 pcs
20	G3/4	59	3/4"	SGU6	1 pcs
25	G1	72	1"	SGU8	1 pcs
32	G1 1/4	81,2	1 1/4"	SGU10	1 pcs

BRASS UNIONS

Description					
			Packaging		
DN	A	B [mm]	Index	individual	bulk
10	G3/8	41,5	3/8"	SGC1	1 pcs
15	G1/2	45,7	1/2"	SGC2	1 pcs
20	G3/4	50,5	3/4"	SGC3	1 pcs
25	G1	59	1"	SGC7	1 pcs
32	G1 1/4	64	1 1/4"	SGC9	1 pcs
				Straight pipe union with O-ring	
			• chrome plated		
			Index	Packaging	
DN	A	B [mm]	SGC1	individual	bulk
10	G3/8	41,5	3/8"	1 pcs	220 pcs
15	G1/2	45,7	1/2"	1 pcs	160 pcs
20	G3/4	50,5	3/4"	1 pcs	120 pcs
25	G1	59	1"	1 pcs	70 pcs
32	G1 1/4	64	1 1/4"	1 pcs	50 pcs
				Angle pipe union with O-ring	
			• chrome plated		
			Index	Packaging	
DN	A	B [mm]	SGC4	individual	bulk
10	G3/8	41,5	3/8"	1 pcs	200 pcs
15	G1/2	45,7	1/2"	1 pcs	140 pcs
20	G3/4	50,5	3/4"	1 pcs	80 pcs
25	G1	59	1"	1 pcs	45 pcs
32	G1 1/4	64	1 1/4"	1 pcs	25 pcs
				1/2" straight pipe union without O-ring	
			• chrome plated		Available while stock lasts
			Index	Packaging	
DN	A	B [mm]	SGCC2	individual	bulk
15	G1/2	45,7	straight	1 pcs	160 pcs
				1/2" angle pipe union without O-ring	
			• chrome plated		Available while stock lasts
			Index	Packaging	
DN	A	B [mm]	SGCC5	individual	bulk
15	G1/2	52,2	angle	1 pcs	140 pcs

						Description		
A	B [mm]	d [mm]	C [mm]	6-kt [mm]	Index	Packaging		
						individual	bulk	
G3/4	G1/2	14,5	36	30	1/2"	SG11	1 set (2 pcs)	120 set
G1	G3/4	19,6	45	36	3/4"	SG12	1 set (2 pcs)	70 set
G1 1/4	G1	26	67,5	46	1"	SG13	1 set (2 pcs)	30 set
G1 1/2	G1 1/4	30	71	52	1 1/4"	SG14	1 set (2 pcs)	25 set
G2	G1 1/2	36,6	82	65	1 1/2"	SG15	1 set (2 pcs)	18 set
G2 1/2	G2	49	98	84	2"	SG16	1 set (2 pcs)	10 set



EAN

Packaging

individual

bulk

1 set (2 pcs)

120 set

1 set (2 pcs)

70 set

1 set (2 pcs)

30 set

1 set (2 pcs)

25 set

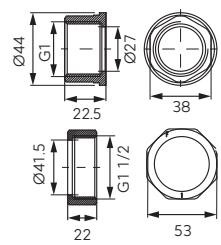
1 set (2 pcs)

18 set

1 set (2 pcs)

10 set

PUMP HALF UNIONS



Description

Brass pump half pipe union 6/4" x1"



Packaging

Index

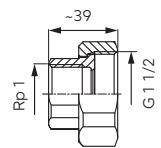
SG18

individual

bulk

1 set (2 pcs)

56 set



Cast iron half pipe union 6/4" x1"



Packaging

Index

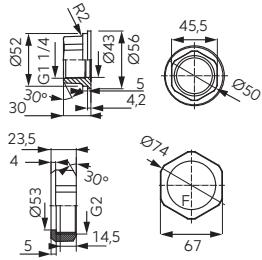
SG17

individual

bulk

1 set (2 pcs)

35 set



Cast iron half pipe union 2" x5/4"



Packaging

Index

SG19

individual

bulk

1 set (2 pcs)

20 set

Central heating & domestic hot water installation kits

CENTRAL HEATING & DOMESTIC HOT WATER INSTALLATION KITS



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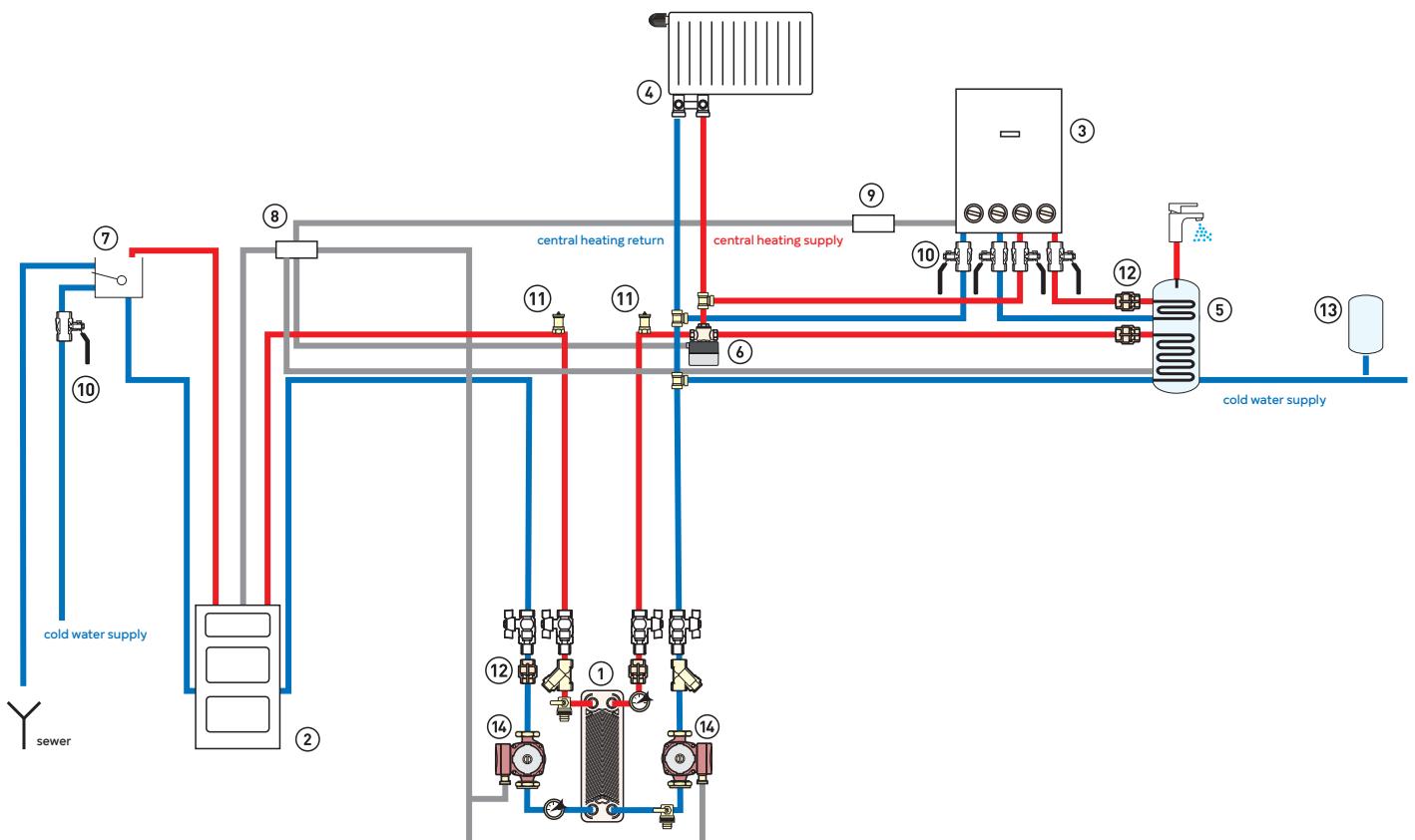
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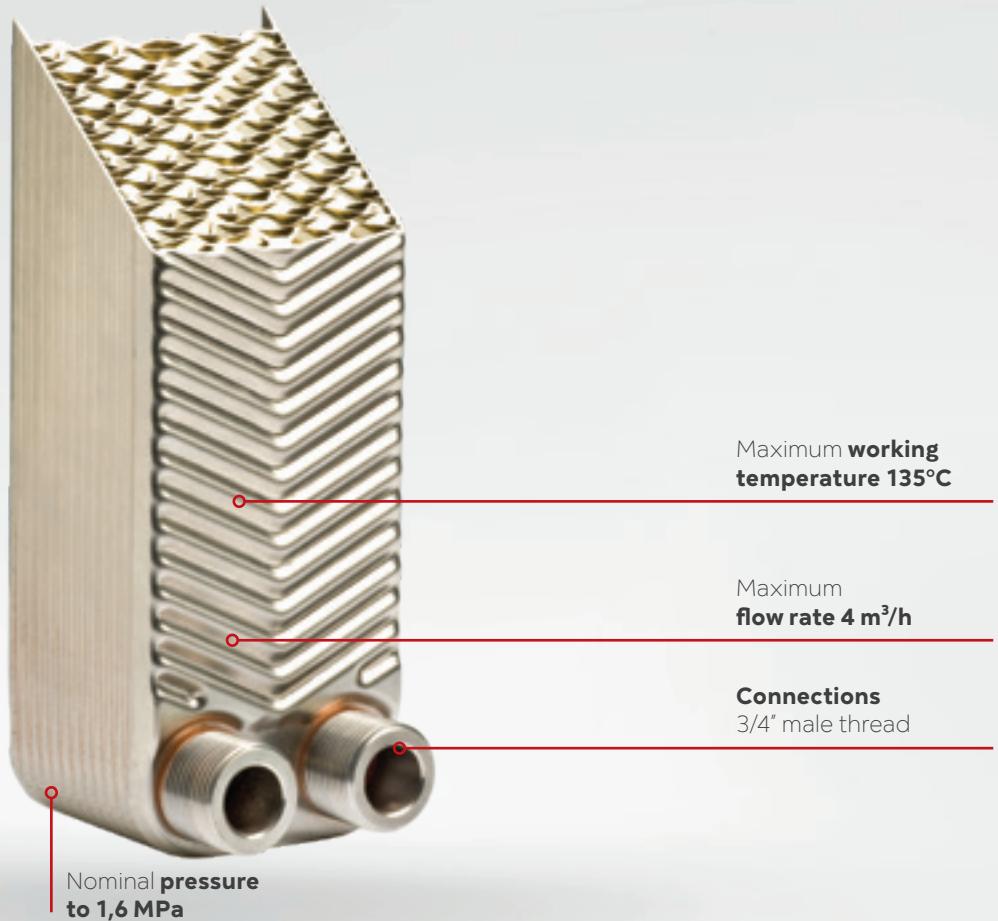
Installation diagram

The installation combining two heat sources
operating in an open and closed system
- overview diagram



1. Heat exchangers
2. Solid fuel boiler
3. Gas boiler
4. Central heating installation
5. Central heating reservoir
6. 3-way valve with actuator
7. Open transfer vessel
8. Solid fuel boiler controller
9. Gas boiler controller
10. Cut-off ball valve
11. Automatic air vent
12. Check valve
13. Expansion vessel for hot water
14. Circulation pump

Heat exchangers



Operating parameters and scope of application:

- central heating installations
- thermocouples
- solid fuel boilers
- hot water installations
- solar installations

Flow: 4 m³/h (max)
Working pressure: 16 bar (max)
Working temperature: 135°C (max)
Test pressure: 20 bar
Connections: 3/4" male thread

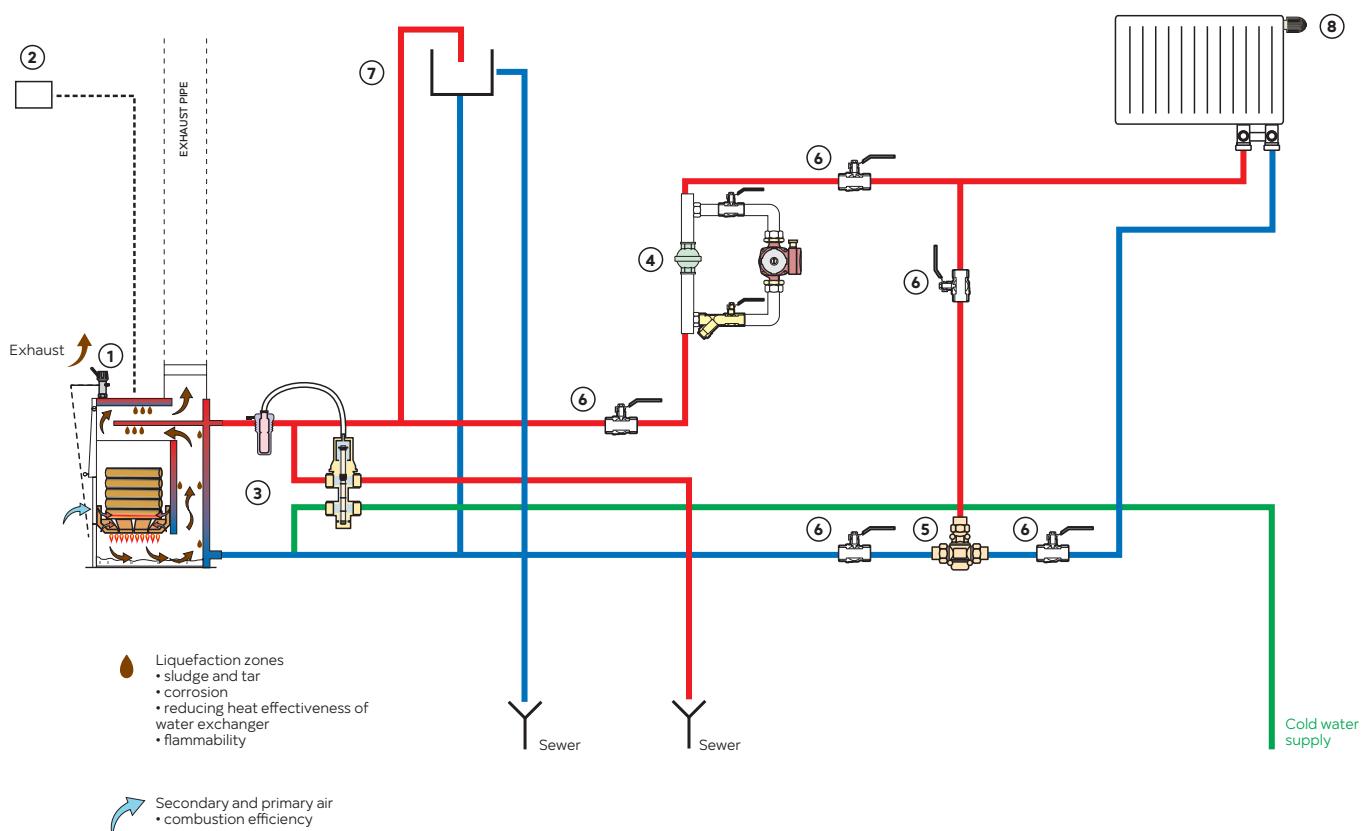
HEAT EXCHANGERS

			Description		
Power range [kW]	Heat source side [°C]	Installation side [°C]		Packaging	
10-15				individual	bulk
15-25	90/70	50/70	IC8THx10	1 pcs	-
25-30	85/65	45/65	IC8THx20	1 pcs	-
35-45	80/60	40/60	IC8THx24	1 pcs	-
			IC8THx30	1 pcs	-
			3/4" exchangers		
			• with insulation for installations with a thermo fireplace or solid fuel boiler		
			Application:		
			• central heating systems		
			• thermal chimney		
			• solid fuel boilers		
			• hot water systems		
			• solar systems		
			Characteristics:		
			• flow rate: 4 m³/h (max)		
			• working pressure: 16 bar (max)		
			• working temperature: 135°C (max)		
			• testing pressure: 20 bar		
			• connections: 3/4" male thread		
					
			Index		
			IC8THx10	individual	bulk
			IC8THx20	1 pcs	-
			IC8THx24	1 pcs	-
			IC8THx30	1 pcs	-
			Insulated exchangers with insulation for solar systems containing 40% propylene glycol		
					
			Index		
			IC8THx20	individual	bulk
			IC8THx24	1 pcs	-
			IC8THx30	1 pcs	-
			IC8TH plate heat exchanger insulation		
					
			Index		
			IZTH	individual	bulk
				1 pcs	-
			1" exchangers with insulation for systems with a thermo fireplace or solid fuel boiler		
			Application:		
			• central heating systems		
			• thermal chimney		
			• solid fuel boilers		
			• hot water systems		
			• solar system		
			Characteristics:		
			• flow rate: 12 m³/h (max)		
			• working pressure: 30 bar (max)		
			• working temperature: 220°C (max)		
			• testing pressure: 45 bar		
			• connection: 1"		
					
			Index		
			IC9THx15	individual	bulk
			IC9THx20	1 pcs	-
			IC9THx30	1 pcs	-
			IC9TH exchanger insulation		
					
			Index		
			IZTH1	individual	bulk
				1 pcs	-

Installation diagram

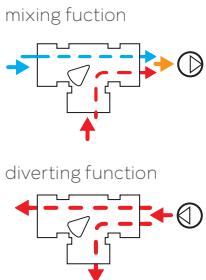
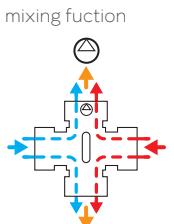
Solid fuel boiler protection

– overview



1. Chimney draught regulator
2. Boiler controller
3. Thermal safety drop valve
4. Pumping set with gravity-assisted differential valve
5. Thermostatic mixing valve to protect the return temperature
6. Cut-off ball valve
7. Open expansion vessel
8. Central heating installation.

MIXING VALVES

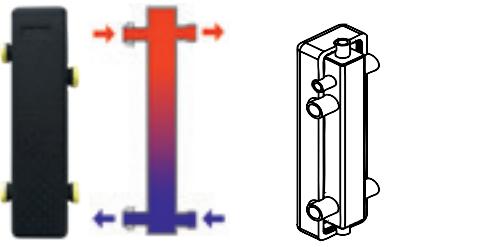
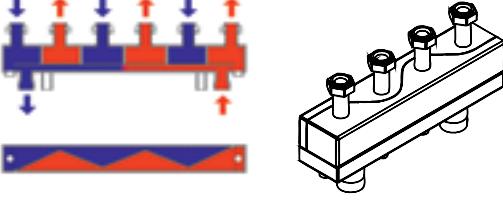
Description		
 		
 3-way valves		
<ul style="list-style-type: none"> • max. working pressure: 1.0 MPa (10 bar) • max. working temperature: 110°C 		
Index		Packaging
ZM31		individual bulk 1 pcs 10 pcs
ZM32		1 pcs 10 pcs
ZM33		1 pcs 10 pcs
 		
 4-way valves		
<ul style="list-style-type: none"> • max. working pressure: 1.0 MPa (10 bar) • max. working temperature: 110°C 		
Index		Packaging
ZM41		individual bulk 1 pcs 10 pcs
ZM42		1 pcs 10 pcs
ZM43		1 pcs 10 pcs
		
Electric actuator for ZM rotary mixing valves		
<ul style="list-style-type: none"> • ambient temperature: from -10°C to + 55°C • the degree of protection provided by the housing: IP 44 • protection class: II • power supply: 230V 50-60Hz • energy consumption: 4W • moment: 10Nm • cable length: 1.5 m (3 x 0.5 mm²) • working time: 120 s • rotation angle: 90 degrees • type of control: 3-point 		
 Index		Packaging
SE230		individual bulk 1 pcs 10 pcs

Description			
size	Index	Packaging	
	EAN	individual	bulk
1"	ZR1	1 pcs	15 pcs
1 1/4"	ZR2	1 pcs	16 pcs
1 1/2"	ZR3	1 pcs	12 pcs
2"	ZR4	1 pcs	8 pcs



PUMPING GROUPS

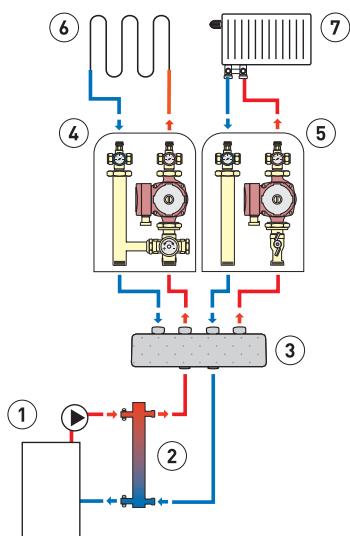
Description		
Pump group 6/4"		
Equipment:		
<ul style="list-style-type: none"> • 25-6-180 electronic circulation pump • cut-off ball valve • ball valves with built-in thermometers in handles • check valve on the return side • lower connections: 6/4" M for flat gasket • upper connections: 1" F 		
Parameters:		
<ul style="list-style-type: none"> • max. working temperature: 90°C • max. working pressure: 1.0 MPa (10 bar) • thermometer measuring scope: 0 - 120°C • sealing: PTFE, EPDM 		
 GP60GPA	Packaging	
	individual	bulk
	1 pcs	-
		
Mixing group for low-temperature installations		
Equipment:		
<ul style="list-style-type: none"> • 25-6-180 electronic circulation pump • 3-way mixing valve with flow Kv = 10 m³/h • ball valves with built-in thermometers in handles • check valve on the return side • lower connections: 6/4" M for flat gasket • upper connections: 1" F 		
Parameters:		
<ul style="list-style-type: none"> • max. working temperature: 90°C • max. working pressure: 1.0 MPa (10 bar) • thermometer measuring scope: 0 - 120°C • 3-way mixing valve body: CW617N brass • sealing: PTFE, EPDM 		
 GMP602GPA	Packaging	
	individual	bulk
	1 pcs	-
		
Thermostatic mixing group for low-temperature installations		
Equipment:		
<ul style="list-style-type: none"> • 25-6-180 electronic circulation pump • thermostatic 3-way mixing valve with flow Kv = 3.5 m³/h • ball valves with built-in thermometers in handles • check valve on the return side • lower connections: 6/4" M for flat gasket • upper connections: 1" F 		
Parameters:		
<ul style="list-style-type: none"> • max. working temperature: 90°C • max. working pressure: 1.0 MPa (10 bar) • thermometer measuring scope: 0 - 120°C • temperature adjustment range: 30°C - 60°C • thermostatic valve body: CB752S (DZR) brass- dezincification resistant • thermostatic valve spring: stainless steel AISI 302 • sealing: PTFE, EPDM 		
 GMPT60GPA	Packaging	
	individual	bulk
	1 pcs	-

Description			
		Packaging	
	Index	individual	bulk
2 circuits	RSI02	1 pcs	-
3 circuits	RSI03	1 pcs	-
4 circuits	RSI04	1 pcs	-
5 circuits	RSI05	1 pcs	-
6 circuits	RSI06	1 pcs	-
		Steel manifold with insulation, mounting kit	
<ul style="list-style-type: none"> upper connections: 6/4" running nut lower connections: 6/4" M, flat sealing flow: 3 m³/h 			
		Steel hydraulic separator with insulation, mounting kit	
<ul style="list-style-type: none"> connections 6/4" M, flat sealing 			
Index			
		Packaging	
flow of 3 m³/h	SHI30	individual	bulk
flow of 4,5 m³/h	SHI45	1 pcs	-
		Hydraulic separator with manifold, insulation, mounting kit	
<ul style="list-style-type: none"> upper connections: 6/4" running nut lower connections: 6/4" M, flat gasket flow: 3 m³/h 			
Index			
		Packaging	
2 circuits	RSHI02	individual	bulk
3 circuits	RSHI03	1 pcs	-

PUMP GROUPS / ACCESSORIES

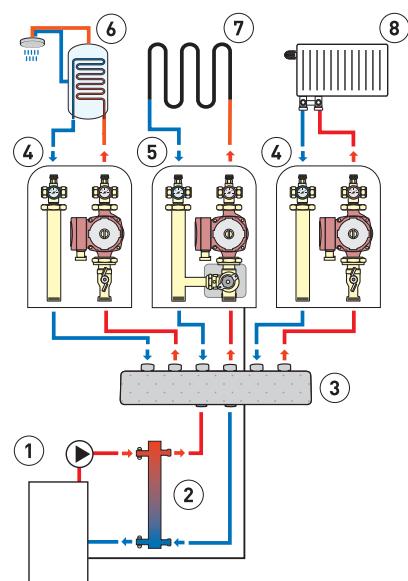
Description		
	Mounting console for GP and GMP	
	• with rawplugs	
	Pressure differential valve 2 - 6.5 m H2O for GMP	
	• for installation in GMP mixing groups • opening pressure: 0.2 - 0.65 bar	
Index	Packaging	
UCH-GP	individual	bulk
	1 pcs	-
Index	Packaging	
ZRC1	individual	bulk
	1 pcs	-

Central heating overview installation diagram using GP60GPA, GMPT60GPA, SHI30 and RSI02



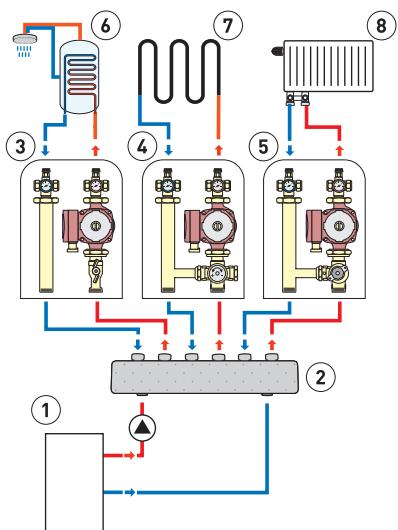
1. Heat source
2. SHI30 hydraulic separator
3. RSI02 directional control valve
4. Thermostatic mixing group GMPT60GPA
5. Mixing group GP60GPA
6. Underfloor heating
7. High-parameter central heating installation

Overview diagram of central heating installation and hot water installations using GP60GPA, GMPT60GPA, SHI30 and RSI02



1. Heat source
2. SHI30 hydraulic separator
3. RSI03 manifold
4. Mixing group GP60GPA
5. Mixing group GMPT60GPA with SE230 actuator
6. Hot water storage tank
7. Underfloor heating
8. High-parameter central heating installation

Overview diagram of central heating installation and hot water installations using GP60GPA, GMPT60GPA, GMP602GPA and RSHI02



1. Heat source
2. SHI30 hydraulic separator
3. Mixing group GP60GPA
4. Thermostatic mixing group GMPT60GPA
5. Mixing group GMP602GPA with SE230 actuator
6. Hot water storage tank
7. Underfloor heating
8. High-parameter central heating installation

Pumps

PUMPS

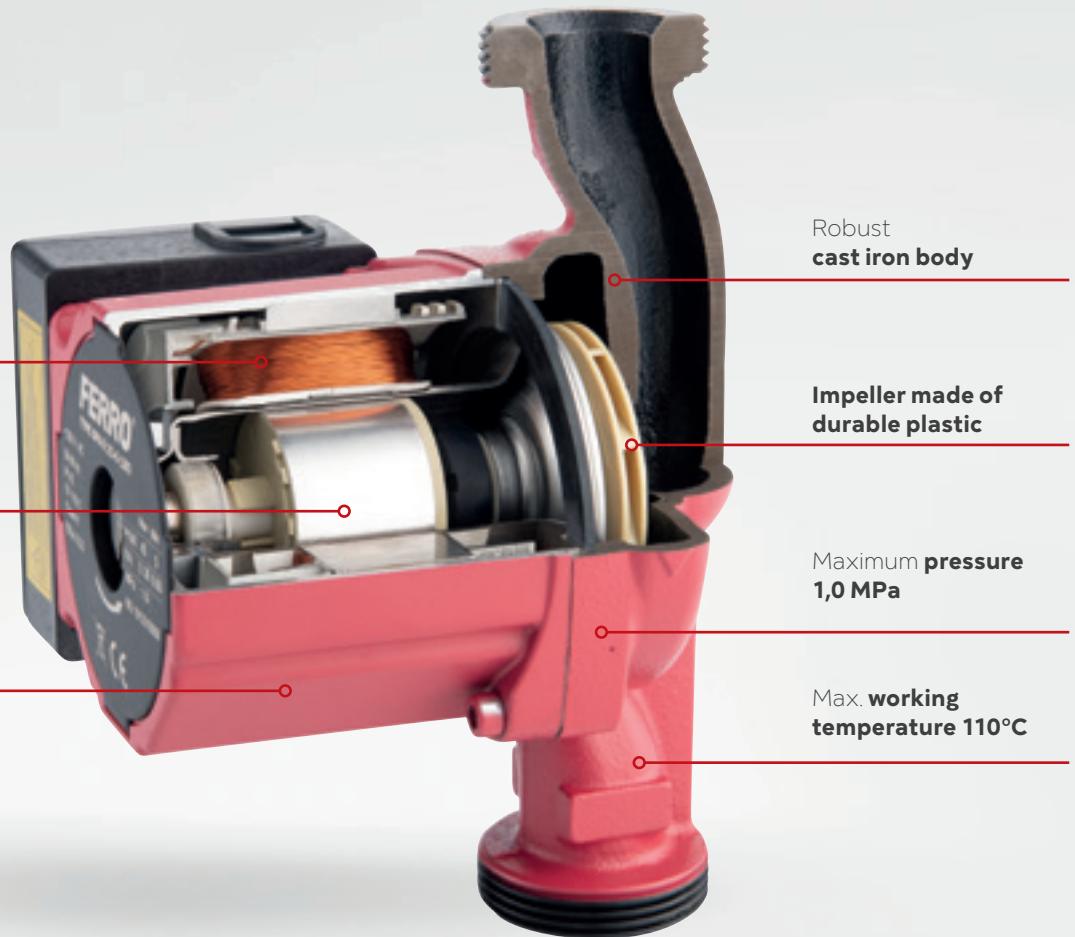


DRINKING WATER CIRCULATION PUMPS
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CIRCULATION PUMPS
111

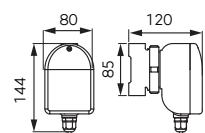
Circulation pumps



Characteristics:

The pump body is made of cast iron, the casing is cast aluminium and the impeller is plastic moulded. The high-quality bipolar, asynchronous motor does not require overload protection. It has three speeds, regulated by a special switch mounted on the terminal box, which allows to adjust the pump operation to the characteristics of the system. The device complies with European standards EN 60335-1 and EN 60335-2-51.

Energy efficiency is one of the main challenges facing modern heating technology. Therefore, FERRO's product portfolio also includes such models - these are energy-efficient, electronic circulation pumps of the latest GPA II generation for heating and solar systems. The GPA II pumps comply with ErP, RoHS, EMC and LVD directives. Depending on the operating mode, the GPA II electronic pumps have two to five times less power requirements compared to manual pumps with the same lifting height. An equally important advantage is the function of automatic adaptation of the pump to the system in which it is installed, which means that it adjusts its efficiency, torque and energy consumption in such a way as to optimize the correct operation of the system. In addition, these devices are equipped with a potentiometer with which we can smoothly control the lifting height of the pump and its capacity.

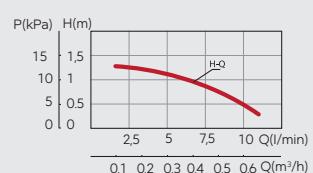


Description

CP 15-1.5 drinking water circulation pump

Characteristics:

- Operating range: 0.1 - 0.7 m³/h
- Lifting height: max. 1.3 m
- Liquid temperature: min. +2°C, max. +95°C
- Application: intended for drinking water only
- Maximum pressure: 10 bar
- Protection class: IP 42
- Insulation class: F
- Voltage: 50-60 Hz, -230 V
- Power consumption: 28 W
- Connection spacing: 85 mm
- Connection: G1/2
- Ambient temperature: min. +2°C, max. +40°C



Index

0101W

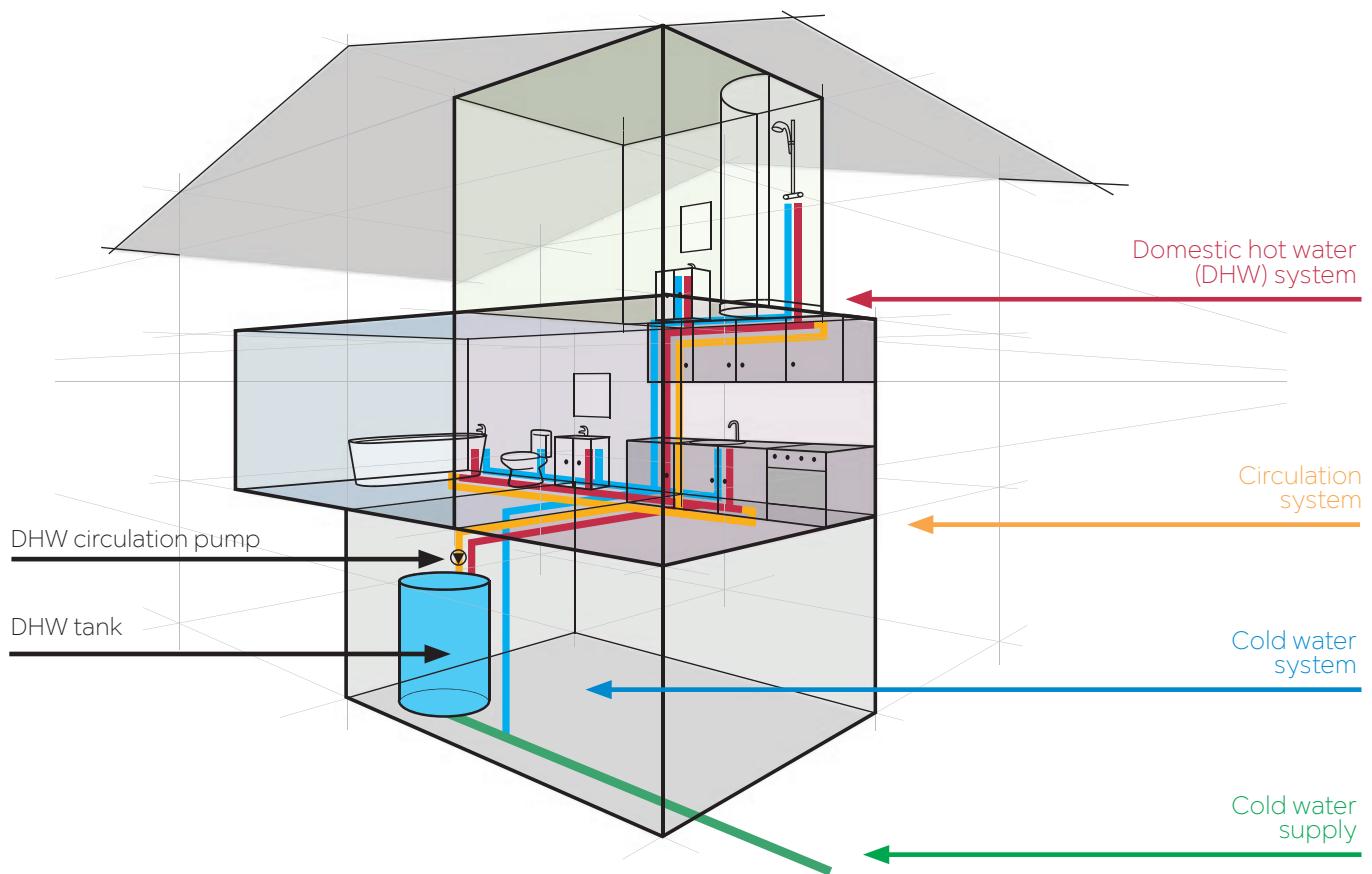
Packaging

individual

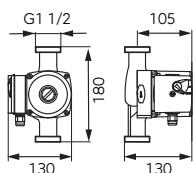
1 pcs

bulk

8 pcs



DRINKING WATER CIRCULATION PUMPS

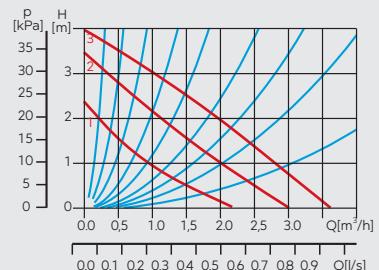


Description

25-40-180 drinking water circulation pump

Characteristics:

- Operating range: 0.2 - 3.5 m³/h
- Lifting height: max. 3.8 m
- Liquid temperature: min. +2°C, max. +110°C
- Application: intended for drinking water only
- Maximum pressure: 10 bar
- Protection class: IP 44
- Insulation class: H
- Cable gland: PG 11
- Installation: axel shaft in horizontal position and terminal box located as desired except under the pump
- Voltage: 50-60 Hz, ~230 V
- Power consumption (I, II, III): 35/45/65 W
- Connection spacing: 180 mm
- Connection: G1 1/2
- Ambient temperature: min. +2°C, max. +40°C



Packaging

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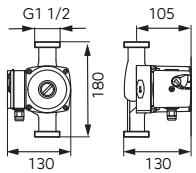
0201W

individual

1 pcs

bulk

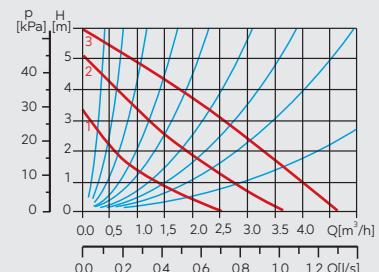
8 pcs



25-60-180 drinking water circulation pump

Characteristics:

- Operating range: 0.2 - 4.5 m³/h
- Lifting height: max. 5.5 m
- Liquid temperature: min. +2°C, max. +110°C
- Application: intended exclusively for drinking water
- Maximum pressure: 10 bar
- Protection class: IP 44
- Insulation class: H
- Cable gland: PG 11
- Installation: axel shaft in horizontal position and terminal box located as desired except under the pump
- Voltage: 50-60 Hz, ~230 V
- Power consumption (I, II, III): 55/70/100 W
- Connection spacing: 180 mm
- Connection: G1 1/2
- Ambient temperature: min. +2°C, max. +40°C



Packaging

Index

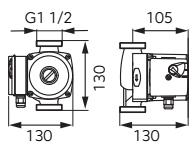
0202W

individual

1 pcs

bulk

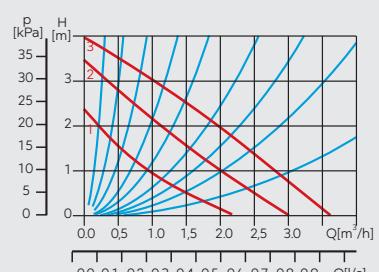
8 pcs



25-40-130 drinking water circulation pump

Characteristics:

- Operating range: 0.2 - 3.5 m³/h
- Lifting height: max. 3.8 m
- Liquid temperature: min. +2°C, max. +110°C
- Application: intended for drinking water only
- Maximum pressure: 10 bar
- Protection class: IP 44
- Insulation class: H
- Cable gland: PG 11
- Installation: axel shaft in horizontal position and terminal box located as desired except under the pump
- Voltage: 50-60 Hz, ~230 V
- Power consumption (I, II, III): 35/45/65 W
- Connection spacing: 130 mm
- Connection: G1 1/2
- Ambient temperature: min. +2°C, max. +40°C



Packaging

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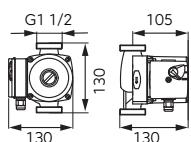
0203W

individual

1 pcs

bulk

8 pcs

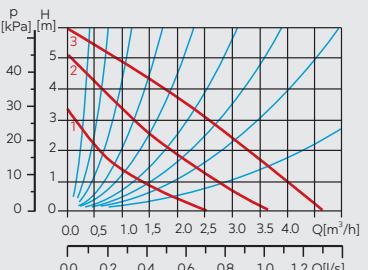


Description

25-60-130 drinking water circulation pump

Characteristics:

- Operating range: 0.2 - 4.5 m³/h
- Lifting height: max. 5.5 m
- Liquid temperature: min. +2°C, max. +110°C
- Application: intended exclusively for drinking water
- Maximum pressure: 10 bar
- Protection class: IP 44
- Insulation class: H
- Cable gland: PG 11
- Installation: axel shaft in horizontal position and terminal box located as desired except under the pump
- Voltage: 50-60 Hz, -230 V
- Power consumption (I,II,III): 55/70/100 W
- Connection spacing: 130 mm
- Connection: G1 1/2
- Ambient temperature: min. +2°C, max. +40°C



Packaging

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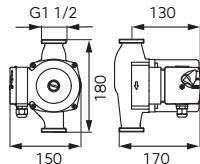
0204W

individual

1 pcs

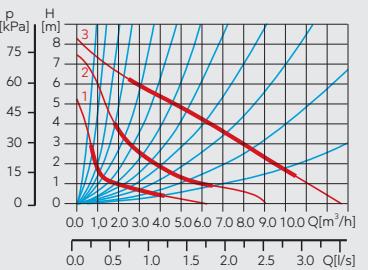
bulk

8 pcs

**25-80-180 drinking water circulation pump**

Characteristics:

- Operating range: 0.2 - 10.5 m³/h
- Lifting height: max. 8 m
- Liquid temperature: min. +2°C, max. +110°C
- Application: intended for drinking water only
- Maximum pressure: 10 bar
- Protection class: IP 44
- Insulation class: H
- Cable gland: PG 9
- Installation: axel shaft in horizontal position and terminal box located as desired except under the pump
- Voltage: 50-60 Hz, -230 V
- Power consumption (I,II,III): 135/190/245 W
- Connection spacing: 180 mm
- Connection: G1 1/2
- Ambient temperature: min. +2°C, max. +40°C



Packaging

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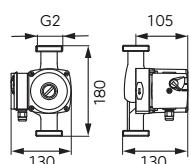
0301W

individual

1 pcs

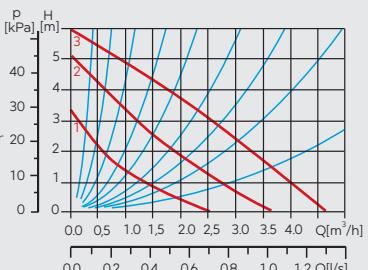
bulk

4 pcs

**32-60-180 drinking water circulation pump**

Characteristics:

- Operating range: 0.2 - 4.5 m³/h
- Lifting height: max. 5.5 m
- Liquid temperature: min. +2°C, max. +110°C
- Application: intended exclusively for drinking water
- Maximum pressure: 10 bar
- Protection class: IP 44
- Insulation class: H
- Cable gland: PG 9
- Installation: axel shaft in horizontal position and terminal box located as desired except under the pump
- Voltage: 50-60 Hz, -230 V
- Power consumption (I,II,III): 55/70/100 W
- Connection spacing: 180 mm
- Connection: G2
- Ambient temperature: min. +2°C, max. +40°C



Packaging

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0302W

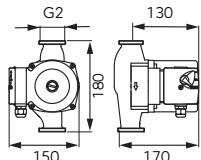
individual

1 pcs

bulk

8 pcs

DRINKING WATER CIRCULATION PUMPS

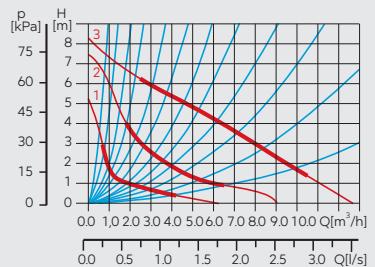


Description

32-80-180 drinking water circulation pump

Characteristics:

- Operating range: 0.2 - 10.5 m³/h
- Lifting height: max. 8 m
- Liquid temperature: min. +2°C, max. +110°C
- Application: intended for drinking water only
- Maximum pressure: 10 bar
- Protection class: IP 44
- Insulation class: H
- Cable gland: PG 9
- Installation: axel shaft in horizontal position and terminal box located as desired except under the pump
- Voltage: 50-60 Hz, ~230 V
- Power consumption (I,II,III): 135/190/245 W
- Connection spacing: 180 mm
- Connection: G2
- Ambient temperature: min. +2°C, max. +40°C



Index

0401W

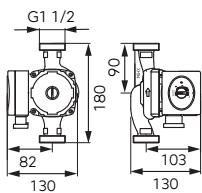
Packaging

individual

1 pcs

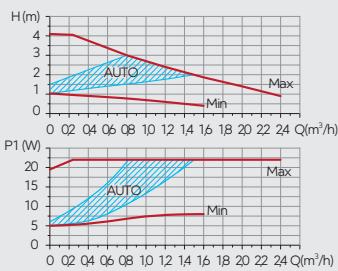
bulk

4 pcs

GLYCOL
30%**Description****GPA II 25-4-180 circulation pump**

Characteristics:

- operating range: max. $2.4 \text{ m}^3/\text{h}$
- lifting height: max. 4.1 m
- liquid temperature: min. $+2^\circ\text{C}$, max. $+110^\circ\text{C}$
- application: Clean, free of solids, fibres and mineral oily substances, non-adhesive, chemically neutral, non-corrosive and non-explosive, with parameters similar to that of water. Pumping in liquids of a viscosity significantly higher than water will cause significant deterioration of the operating parameters, the pump may not operate properly.
- The pump can be used with a glycol concentration of up to 30%, and in such cases the pump will operate at a reduced efficiency.
- minimal inlet pressure depending on the liquid temperature: 0.50 bar (up to 85°C), 0.28 bar (up to 90°C), 1.00 bar (up to 110°C)
- maximum pressure: 10 bar
- protection class: IP 42
- insulation class: H
- energy Efficiency Index: ≤ 0.23
- installation: with the shaft in a horizontal position,
- cable gland pointing down or to the side
- voltage: $-230 \text{ V } (-6\% - +10\%)$, 50/60 Hz
- power consumption: 5 – 22 W; 0,05 – 0,19 A
- connection spacing: 180 mm
- connection: G1 1/2
- ambient parameters: $0^\circ\text{C} - 40^\circ\text{C}$; RH < 95%

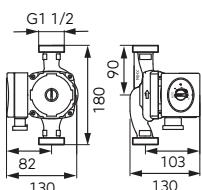
**Packaging****Index****0601W**

individual

1 pcs

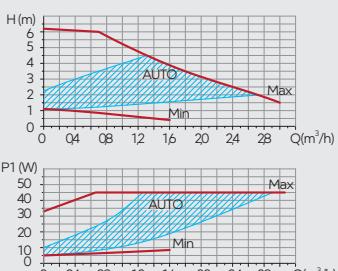
bulk

4 pcs

GLYCOL
30%**GPA II 25-6-180 circulation pump**

Characteristics:

- operating range: max. $3 \text{ m}^3/\text{h}$
- lifting height: max. 6.2 m
- liquid temperature: min. $+2^\circ\text{C}$, max. $+110^\circ\text{C}$
- application: Clean, free of solids, fibres and mineral oily substances, non-adhesive, chemically neutral, non-corrosive and non-explosive, with parameters similar to that of water. Pumping in liquids of a viscosity significantly higher than water will cause significant deterioration of the operating parameters, the pump may not operate properly.
- The pump can be used with a glycol concentration of up to 30%, and in such cases the pump will operate at a reduced efficiency.
- minimal inlet pressure depending on the liquid temperature: 0.50 bar (up to 85°C), 0.28 bar (up to 90°C), 1.00 bar (up to 110°C)
- maximum pressure: 10 bar
- protection class: IP 42
- Insulation class: H
- energy Efficiency Index: ≤ 0.23
- Installation: with the shaft in a horizontal position,
- cable gland pointing down or to the side
- voltage: $-230 \text{ V } (-6\% - +10\%)$, 50/60 Hz
- power consumption: 5 – 45 W; 0,05 – 0,38 A
- connection spacing: 180 mm
- connection: G1 1/2
- ambient parameters: $0^\circ\text{C} - 40^\circ\text{C}$; RH < 95%

**Packaging****Index****0602W**

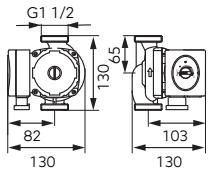
individual

1 pcs

bulk

4 pcs

CIRCULATION PUMPS



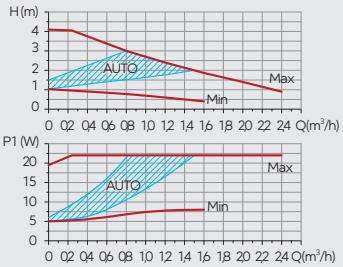
GLYCOL
30%

Description

GPA II 25-4-130 circulation pump

Characteristics:

- operating range: max. 2.4 m³/h
- lifting height: max. 4.1 m
- liquid temperature: min. +2°C, max. +110°C
- application: Clean, free of solids, fibres and mineral oily substances, non-adhesive, chemically neutral, non-corrosive and non-explosive, with parameters similar to that of water. Pumping in liquids of a viscosity significantly higher than water will cause significant deterioration of the operating parameters, the pump may not operate properly.
- The pump can be used with a glycol concentration of up to 30%, and in such cases the pump will operate at a reduced efficiency.
- minimal inlet pressure depending on the liquid temperature: 0.50 bar (up to 85°C), 0.28 bar (up to 90°C), 1.00 bar (up to 110°C)
- maximum pressure: 10 bar
- protection class: IP 42
- insulation class: H
- energy Efficiency Index: ≤0.23
- installation: with the shaft in a horizontal position,
- cable gland pointing down or to the side
- voltage: -230 V (-6% - +10%), 50/60 Hz
- power consumption: 5 – 22 W; 0,05 - 0,19 A
- connection spacing: 130 mm
- connection: G1 1/2
- ambient parameters: 0°C - 40°C; RH <95%



Packaging		
	individual	bulk
0603W	1 pcs	4 pcs

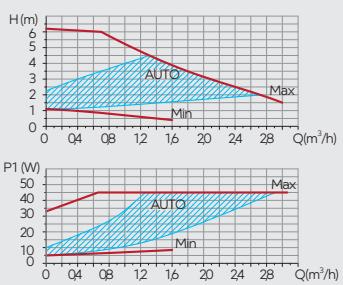
Index

0603W

GPA II 25-6-130 circulation pump

Characteristics:

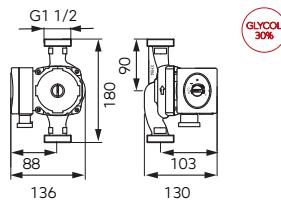
- operating range: max. 3 m³/h
- lifting height: max. 6.2 m
- liquid temperature: min. +2°C, max. +110°C
- application: Clean, free of solids, fibres and mineral oily substances, non-adhesive, chemically neutral, non-corrosive and non-explosive, with parameters similar to that of water. Pumping in liquids of a viscosity significantly higher than water will cause significant deterioration of the operating parameters, the pump may not operate properly.
- The pump can be used with a glycol concentration of up to 30%, and in such cases the pump will operate at a reduced efficiency.
- minimal inlet pressure depending on the liquid temperature: 0.50 bar (up to 85°C), 0.28 bar (up to 90°C), 1.00 bar (up to 110°C)
- maximum pressure: 10 bar
- protection class: IP 42
- insulation class: H
- energy Efficiency Index: ≤0.23
- installation: with the shaft in a horizontal position,
- cable gland pointing down or to the side
- voltage: -230 V (-6% - +10%), 50/60 Hz
- power consumption: 5 - 45W; 0,05 - 0,38A
- connection spacing: 130 mm
- connection: G1 1/2
- ambient parameters: 0°C - 40°C; RH <95%



Packaging		
	individual	bulk
0604W	1 pcs	4 pcs

Index

0604W

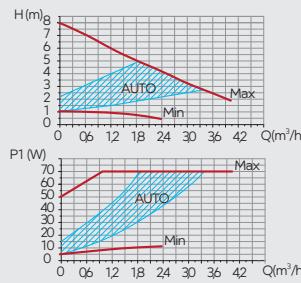


Description

GPA II 25-8-180 circulation pump

Characteristics:

- operating range: max. $4 \text{ m}^3/\text{h}$
- lifting height: max. 8 m
- liquid temperature: min. $+2^\circ\text{C}$, max. $+110^\circ\text{C}$
- application: Clean, free of solids, fibres and mineral oily substances, non-adhesive, chemically neutral, non-corrosive and non-explosive, with parameters similar to that of water. Pumping in liquids of a viscosity significantly higher than water will cause significant deterioration of the operating parameters, the pump may not operate properly.
- The pump can be used with a glycol concentration of up to 30%, and in such cases the pump will operate at a reduced efficiency.
- minimal inlet pressure depending on the liquid temperature: 0.50 bar (up to 85°C), 0.28 bar (up to 90°C), 1.00 bar (up to 110°C)
- maximum pressure: 10 bar
- protection class: IP 42
- insulation class: H
- energy Efficiency Index: ≤ 0.23
- Installation: with the shaft in a horizontal position,
- cable gland pointing down or to the side
- voltage: $-230 \text{ V } (-6\% - +10\%)$, 50/60 Hz
- power consumption: 5 – 70 W; 0,05 – 0,52 A
- connection spacing: 180 mm
- connection: G1 1/2
- ambient parameters: $0^\circ\text{C} - 40^\circ\text{C}$; RH <95%



Index

0605W

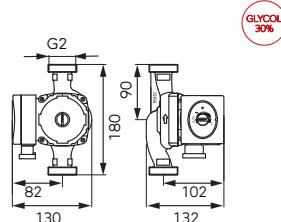
Packaging

individual

1 pcs

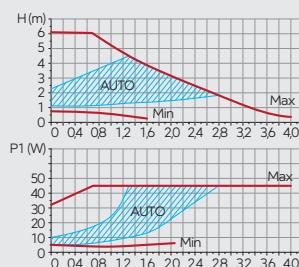
bulk

4 pcs

**GPA II 32-6-180 circulation pump**

Characteristics:

- operating range: max. $4 \text{ m}^3/\text{h}$
- lifting height: max. 6.2 m
- liquid temperature: min. $+2^\circ\text{C}$, max. $+110^\circ\text{C}$
- application: Clean, free of solids, fibres and mineral oily substances, non-adhesive, chemically neutral, non-corrosive and non-explosive, with parameters similar to that of water. Pumping in liquids of a viscosity significantly higher than water will cause significant deterioration of the operating parameters, the pump may not operate properly.
- The pump can be used with a glycol concentration of up to 30%, and in such cases the pump will operate at a reduced efficiency.
- Minimal inlet pressure depending on the liquid temperature: 0.50 bar (up to 85°C), 0.28 bar (up to 90°C), 1.00 bar (up to 110°C)
- maximum pressure: 10 bar
- Protection class: IP 42
- Insulation class: H
- energy Efficiency Index: ≤ 0.23
- Installation: with the shaft in a horizontal position,
- cable gland pointing down or to the side
- voltage: $-230 \text{ V } (-6\% - +10\%)$, 50/60 Hz
- power consumption: 5 – 45 W; 0,05 – 0,38 A
- connection spacing: 180 mm
- connection: G2
- ambient parameters: $0^\circ\text{C} - 40^\circ\text{C}$; RH <95%



Index

0606W

Packaging

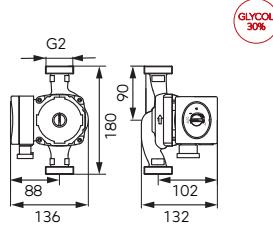
individual

1 pcs

bulk

4 pcs

CIRCULATION PUMPS

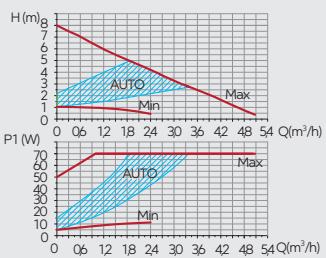


Description

GPA II 32-8-180 circulation pump

Characteristics:

- operating range: max. $5.0 \text{ m}^3/\text{h}$
- lifting height: max. 8 m
- liquid temperature: min. $+2^\circ\text{C}$, max. $+110^\circ\text{C}$
- application: Clean, free of solids, fibres and mineral oily substances, non-adhesive, chemically neutral, non-corrosive and non-explosive; with parameters similar to that of water. Pumping in liquids of a viscosity significantly higher than water will cause significant deterioration of the operating parameters, the pump may not operate properly.
- The pump can be used with a glycol concentration of up to 30%, and in such cases the pump will operate at a reduced efficiency.
- minimal inlet pressure depending on the liquid temperature: 0.50 bar (up to 85°C), 0.28 bar (up to 90°C), 1.00 bar (up to 110°C)
- maximum pressure: 10 bar
- protection class: IP 42
- Insulation class: H
- energy Efficiency Index: ≤ 0.23
- Installation: with the shaft in a horizontal position, cable gland pointing down or to the side
- voltage: -230 V (-6% - +10%), 50/60 Hz
- power consumption: 5 – 70 W; 0,05 - 0,52 A
- connection spacing: 180 mm
- connection: G2
- ambient parameters: $0^\circ\text{C} - 40^\circ\text{C}$; RH <95%



Index

0607W

Packaging

individual

1 pcs

bulk

4 pcs

Pex system

PEX SYSTEM

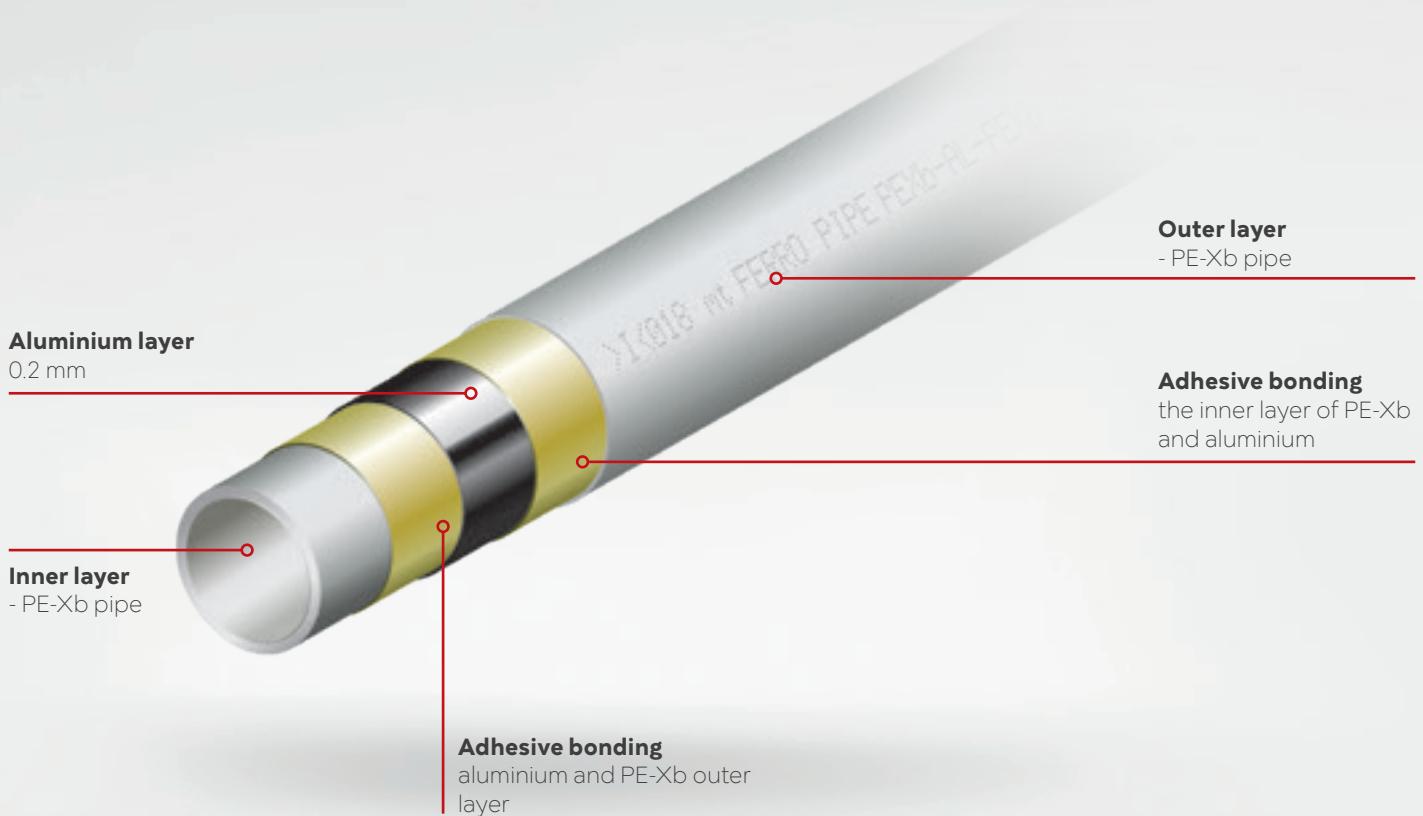


PEX-AL-PEX PIPES
116



COMPRESSION FITTINGS
117

Pex system



Characteristics:

- external diameter Ø16 mm
- wall thickness: 2 mm
- material: PEXb-AL-PEXb, internal and outer layer
- AL layer thickness: 0.2 mm
- max. working pressure: 1.0 MPa (PN10)
- max. working temperature: 95°C
- TIG butt welding
- packaging: 200 m rolls



Description

**PEX-AL-PEX 16x2 mm multilayer pipe**

- external diameter: Ø16 mm
- wall thickness: 2 mm
- material: PEX_b-AL-PEX_b, both inner and outer layers cross-linked
- AL layer thickness: 0.2 mm
- max. working pressure: 10 bar (PN10)
- max. working temperature: 95°C
- TIG butt welding
- packaging: 200 m rolls
- application in the construction industry:
- drinking water installations
- floor heating
- connection of central heating radiators
- hot water
- cold water
- compressed air

Packaging

Index

individual

bulk

PEX16

**1/2" threaded compression fitting**

- for 16 x 2 mm multilayer pipes



Packaging

Retail

Index

individual

bulk

Index

ZL15PEXAL

1 set (2 pcs)

50 set

ZL15PEXAL

ZL15PEXAL-10

10 pcs

**1/2" threaded compression fitting**

- for 16 x 2 mm homogeneous plastic pipes



Packaging

Retail

Index

individual

bulk

Index

ZL15PEX

1 set (2 pcs)

50 set

ZL15PEX

ZL15PEX-10

10 pcs

set – 2 pcs.

1 pcs. /sales only in bulk packaging - 10 pcs/

**1/2" threaded compression fitting**

- for 15 mm copper pipes



Packaging

Retail

Index

individual

bulk

Index

ZL15CU15

1 set (2 pcs)

50 set

ZL15CU15

ZL15CU15-10

10 pcs

set – 2 pcs.

1 pcs. /sales only in bulk packaging - 10 pcs/

APPLICATION OF 1/2" COMPRESSION FITTINGS →

Manifolds series SN-RO, SN-RZP, N-RZP, N-RNZ

Nipples: N10PORT-C7NEW, N10ZORZL-C7NEW

Sanitary manifolds: RDW

COMPRESSION FITTINGS

Description			
			
3/4" threaded compression fitting • for 16 x 2 mm multilayer pipes			
Index 67861612Y	Packaging individual 1 set (2 pcs)	bulk 130 set	 Index 67861612Y
set – 2 pcs.			
			
3/4" threaded compression fitting • for 16 x 2 mm homogeneous plastic pipes			
Index 67841612Y	Packaging individual 1 set (2 pcs)	bulk 130 set	 Index 67841612Y
set – 2 pcs.			
			
3/4" threaded compression fitting • for 15 mm copper pipes			
Index 67761500Y	Packaging individual 1 set (2 pcs)	bulk 130 set	 Index 67761500Y
set – 2 pcs.			

APPLICATION OF 3/4" COMPRESSION FITTINGS →

Manifolds series SN-RZPU, SN-ROU, RO, RZP, RPN.
 Radiator valves: LZ06YK, LZ07YK, LZ06YKN, LZ07YKN.
 Thermostatic sets: ZTV01, ZTV02, ZTV07, ZTV08, ZTV20, ZTV21
 Nipples: N10ZOR, N10POR, N10POR-C7

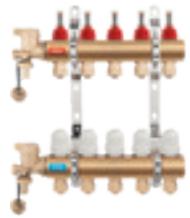
Description			
 Cu Ø15 Compression fitting <ul style="list-style-type: none"> • with 1/2" male thread • with O-ring, for 15 mm copper pipes EAN			
		Packaging	Retail
chrome	Index	individual	bulk
	ZL1501C	1 pcs	10 pcs
nickel	Index	-	10 pcs
	ZL1501N		
 O Compression fitting <ul style="list-style-type: none"> • with 1/2" male thread • with O-ring, for 16 x 2 mm multilayer pipes EAN			
		Packaging	
chrome	Index	individual	bulk
	ZL1601C	1 pcs	10 pcs
nickel	Index	-	10 pcs
	ZL1601N		
 G3/4xG1/2 radiator nipple <ul style="list-style-type: none"> • with O-ring EAN			
		Packaging	Retail
flat gasket	Index	individual	bulk
	69190000Y	100 pcs	800 pcs
conical gasket	Index	-	800 pcs
	69190001Y		

Manifolds and accessories

MANIFOLDS



STAINLESS STEEL
MANIFOLDS
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BRASS
MANIFOLDS
125

ACCESSORIES



MANIFOLD
CABINETS
129



MIXING
GROUPS
131

SANITARY MANIFOLDS



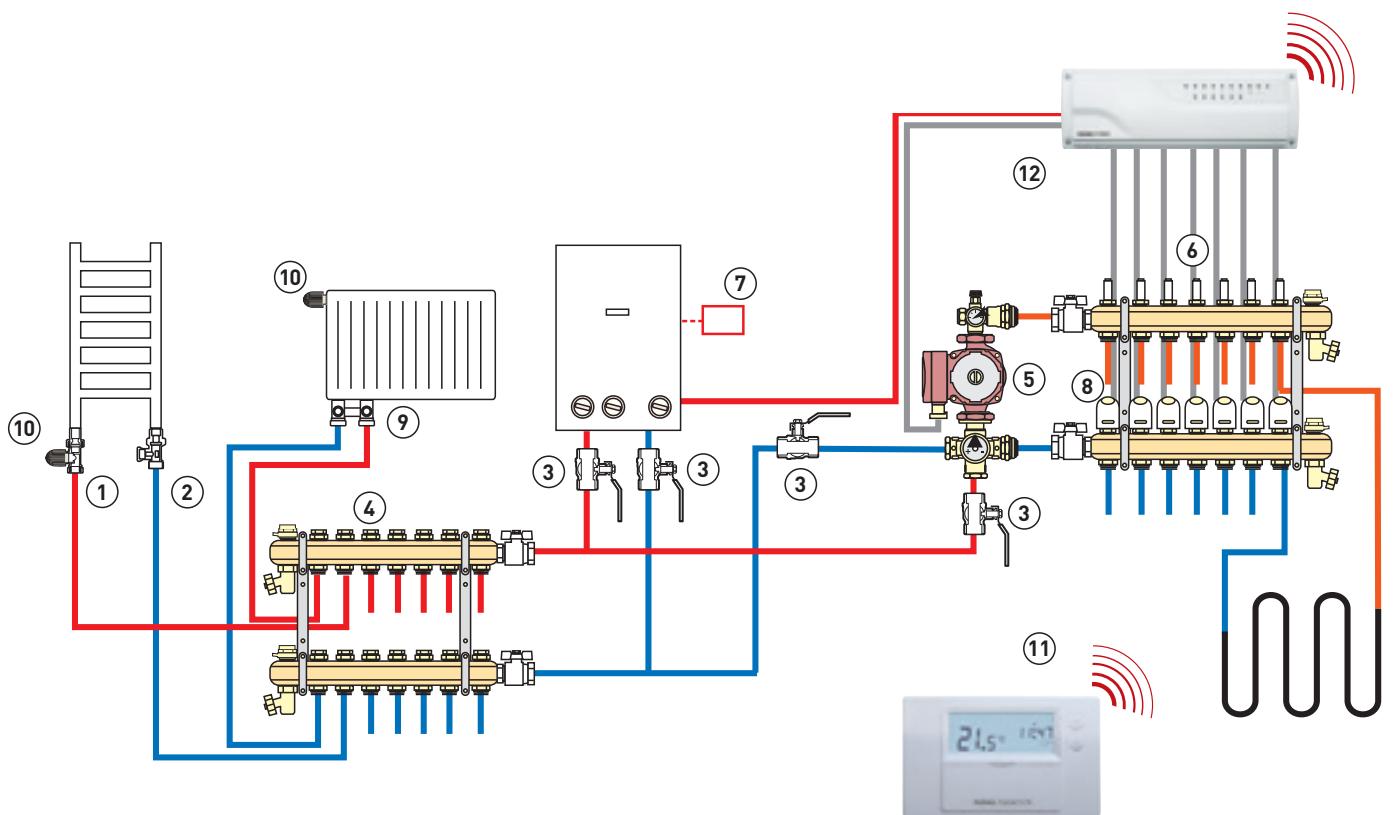
SANITARY
MANIFOLDS
136

NEW

Installation diagram

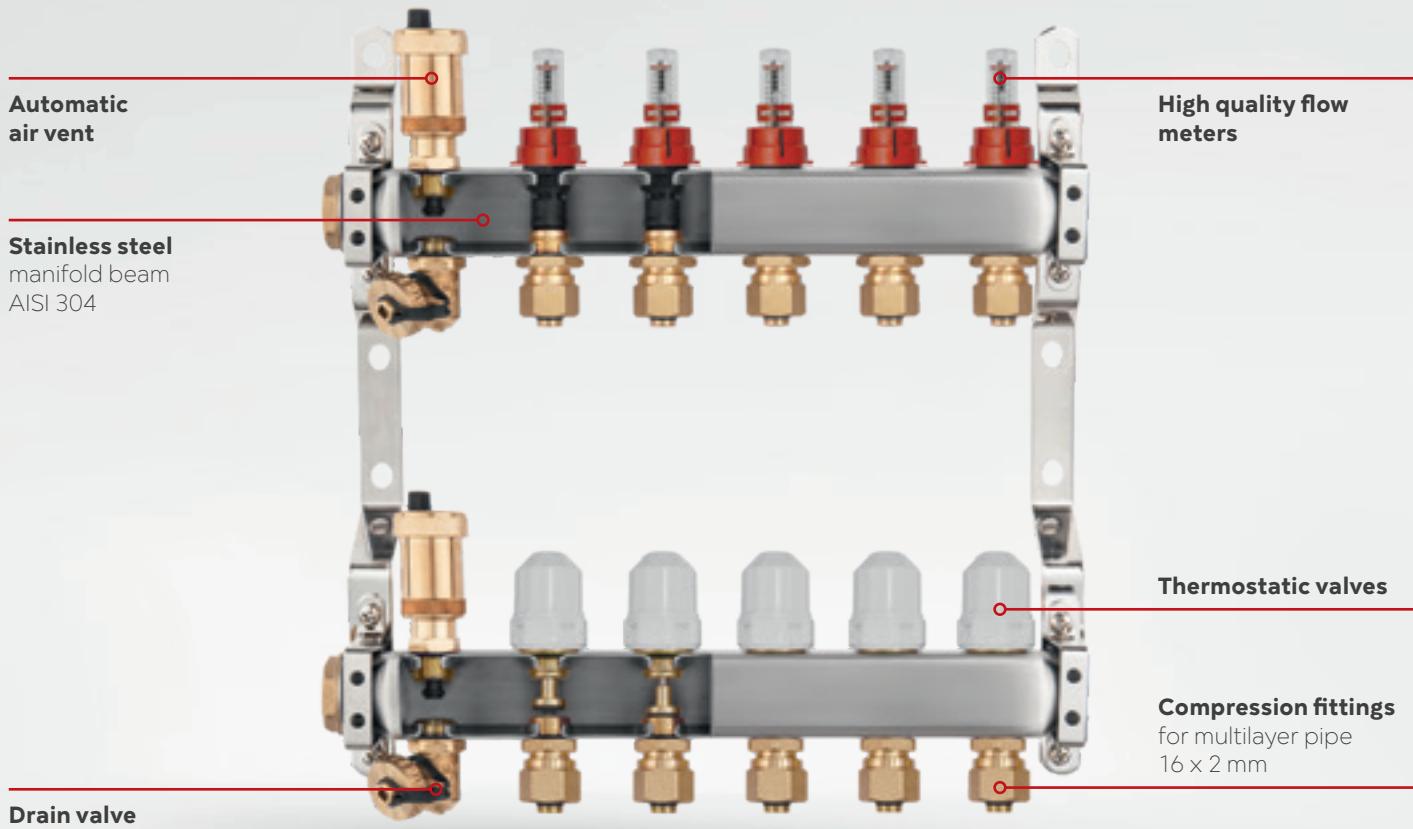
Mixed systems combining floor heating with a traditional radiator system

- overview



1. Thermostatic valve ZT
2. Return valve ZP
3. Cut-off ball valve
4. RO manifold
5. Thermostatic mixing group GM
6. RZP manifold
7. Room temperature regulator
8. Thermoelectric head
9. Composite valve LZ
10. Thermostatic head
11. Weekly regulator
12. Floor heating control strip

Stainless steel manifolds

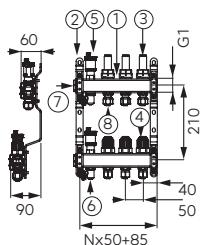
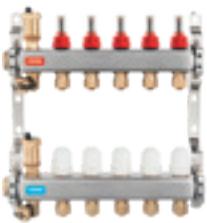


Advantages:

- precise and robust design
- high quality materials
- 11 models of each type
- execution: stainless steel AISI 304 (manifold beams)

Characteristics:

Manifolds consist of two beams with 1" connection diameter, made of AISI 304 stainless steel, which ensures maximum resistance to corrosion and thus guarantees long-term, failure-free operation. An additional element of the durability of the devices are special grips with rubber insulation that suppresses vibrations and noise. Grips give the structure rigidity and at the same time maintain a constant distance between beams. Designed to work in systems with convection heaters or for installation in surface heating - they perfectly fulfil the function of a connector of heating system elements while optimizing the fitter's work.



Description

SN-RZP 1" manifold

- 2 - 12-way bar, 2 pcs (1)
- set of steel brackets (2)
- flow meters on supply bars regulating flow (3)
- thermostatic valves on the return bars fitted with knobs for manual regulation with possibility of connecting thermoelectric head (4)
- G1/2 automatic vent valves, 2 pcs (5)
- G1/2 swivel drain valves, 2 pcs (6)
- G1 brass plugs, 2 pcs (7)
- G1/2 nipples with 16 x 2 mm multilayer pipe connectors (8)



Packaging

Index

individual bulk

1" 2-way manifold

SN-RZP02S

1 pcs

-

1" 3-way manifold

SN-RZP03S

1 pcs

-

1" 4-way manifold

SN-RZP04S

1 pcs

-

1" 5-way manifold

SN-RZP05S

1 pcs

-

1" 6-way manifold

SN-RZP06S

1 pcs

-

1" 7-way manifold

SN-RZP07S

1 pcs

-

1" 8-way manifold

SN-RZP08S

1 pcs

-

1" 9-way manifold

SN-RZP09S

1 pcs

-

1" 10-way manifold

SN-RZP10S

1 pcs

-

1" 11-way manifold

SN-RZP11S

1 pcs

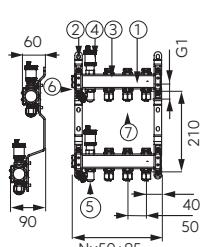
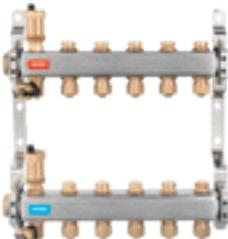
-

1" 12-way manifold

SN-RZP12S

1 pcs

-

**SN-RO 1" manifold**

- 2 - 12-way bar, 2 pcs (1)
- set of steel brackets (2)
- cut-off valves on supply and return bar (3)
- G1/2 automatic vent valves, 2 pcs (4)
- G1/2 swivel drain valves, 2 pcs (5)
- G1 brass plugs, 2 pcs (6)
- G1/2 nipples with 16 x 2 mm multilayer pipe connectors (7)



Packaging

Index

individual bulk

1" 2-way manifold

SN-RO02S

1 pcs

-

1" 3-way manifold

SN-RO03S

1 pcs

-

1" 4-way manifold

SN-RO04S

1 pcs

-

1" 5-way manifold

SN-RO05S

1 pcs

-

1" 6-way manifold

SN-RO06S

1 pcs

-

1" 7-way manifold

SN-RO07S

1 pcs

-

1" 8-way manifold

SN-RO08S

1 pcs

-

1" 9-way manifold

SN-RO09S

1 pcs

-

1" 10-way manifold

SN-RO10S

1 pcs

-

1" 11-way manifold

SN-RO11S

1 pcs

-

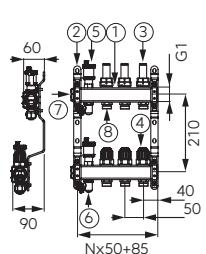
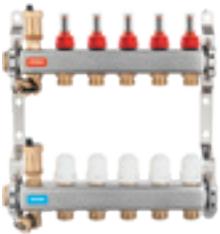
1" 12-way manifold

SN-RO12S

1 pcs

-

STAINLESS STEEL MANIFOLDS



Description

SN-RZPU 1" manifold

- 2 - 12-way bar, 2 pcs (1)
- set of steel brackets (2)
- flow meters on supply bars regulating flow (3)
- thermostatic valves on the return bars fitted with knobs for manual regulation with possibility of connecting thermoelectric head (4)
- G1/2 automatic vent valves, 2 pcs (5)
- G1/2 swivel drain valves, 2 pcs (6)
- G1 brass plugs, 2 pcs (7)
- G1/2 x G3/4 nipples (8)



Packaging

Index

	individual	bulk
SN-RZPU02S	1 pcs	-
SN-RZPU03S	1 pcs	-
SN-RZPU04S	1 pcs	-
SN-RZPU05S	1 pcs	-
SN-RZPU06S	1 pcs	-
SN-RZPU07S	1 pcs	-
SN-RZPU08S	1 pcs	-
SN-RZPU09S	1 pcs	-
SN-RZPU10S	1 pcs	-
SN-RZPU11S	1 pcs	-
SN-RZPU12S	1 pcs	-

1" 2-way manifold

1" 3-way manifold

1" 4-way manifold

1" 5-way manifold

1" 6-way manifold

1" 7-way manifold

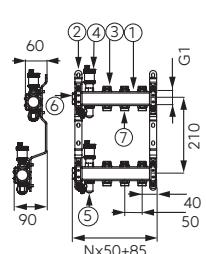
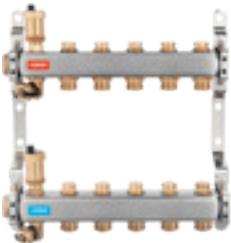
1" 8-way manifold

1" 9-way manifold

1" 10-way manifold

1" 11-way manifold

1" 12-way manifold



SN-ROU 1" manifold

- 2 - 12-way bar, 2 pcs (1)
- set of steel brackets (2)
- cut-off valves on supply and return bar (3)
- G1/2 automatic vent valves, 2 pcs (4)
- G1/2 swivel drain valves, 2 pcs (5)
- G1 brass plugs, 2 pcs (6)
- G1/2 x G3/4 nipples (7)

Packaging

Index

	individual	bulk
SN-ROU02S	1 pcs	-
SN-ROU03S	1 pcs	-
SN-ROU04S	1 pcs	-
SN-ROU05S	1 pcs	-
SN-ROU06S	1 pcs	-
SN-ROU07S	1 pcs	-
SN-ROU08S	1 pcs	-
SN-ROU09S	1 pcs	-
SN-ROU10S	1 pcs	-
SN-ROU11S	1 pcs	-
SN-ROU12S	1 pcs	-

1" 2-way manifold

1" 3-way manifold

1" 4-way manifold

1" 5-way manifold

1" 6-way manifold

1" 7-way manifold

1" 8-way manifold

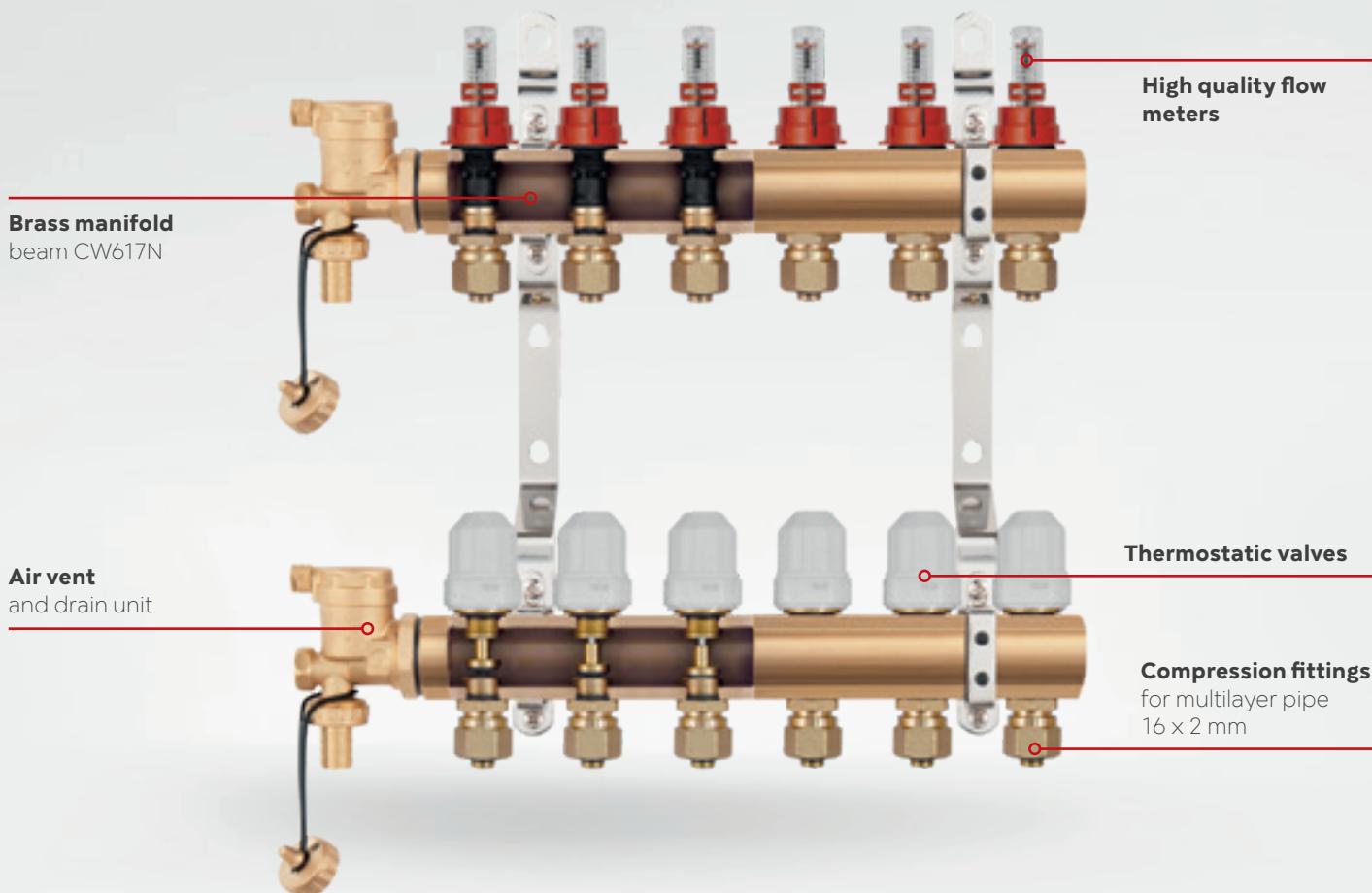
1" 9-way manifold

1" 10-way manifold

1" 11-way manifold

1" 12-way manifold

Brass manifolds



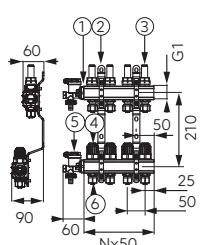
Advantages:

- precise and robust design
- high quality materials
- 11 models of each type
- execution: brass CW617N (manifold beams)

Characteristics:

Brass manifolds are the basic element of a central heating system. They are used in systems with convection radiators, floor radiators and mixed systems. Manifolds enable precise regulation of installations and reliable operation of the whole heating system.

BRASS MANIFOLDS



Description

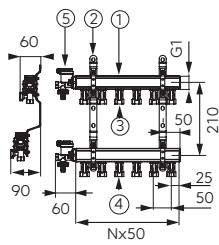
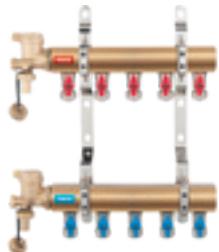
N-RZP 1" manifold

- 2 - 12-way manifold bar, 2 pcs (1)
- set of steel brackets (2)
- flow meters on the supply bars for regulating flow (3)
- thermostatic valves on the return bar fitted with knobs for manual regulation with possibility of connecting thermoelectric head (4)
- G1 automatic air vents and drain units with brass hose connectors, 2 pcs (5)
- G1/2 nipples with 16 x 2 mm multilayer pipe connectors (6)



Packaging

Index	individual	bulk
N-RZP02S	1 pcs	-
N-RZP03S	1 pcs	-
N-RZP04S	1 pcs	-
N-RZP05S	1 pcs	-
N-RZP06S	1 pcs	-
N-RZP07S	1 pcs	-
N-RZP08S	1 pcs	-
N-RZP09S	1 pcs	-
N-RZP10S	1 pcs	-
N-RZP11S	1 pcs	-
N-RZP12S	1 pcs	-



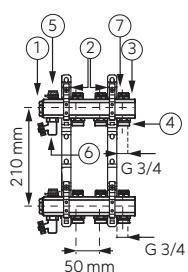
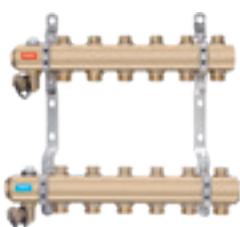
N-RO 1" manifold

- 2 - 12-way manifold bar, 2 pcs (1)
- set of steel brackets (2)
- G1/2 ball valves with 16 x 2 mm multilayer pipe connection on supply bar (with red butterfly handle) (3) and return bar (with blue butterfly) (4)
- G1 automatic air vents and drain units with brass hose connectors, 2 pcs (5)



Packaging

Index	individual	bulk
N-RO02S	1 pcs	-
N-RO03S	1 pcs	-
N-RO04S	1 pcs	-
N-RO05S	1 pcs	-
N-RO06S	1 pcs	-
N-RO07S	1 pcs	-
N-RO08S	1 pcs	-
N-RO09S	1 pcs	-
N-RO10S	1 pcs	-
N-RO11S	1 pcs	-
N-RO12S	1 pcs	-



Description

RO 1" manifold

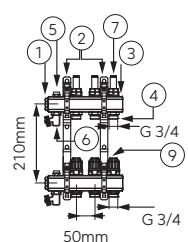
- 2-12-way 1", 2 pcs (3)
- set of steel brackets (2)
- cut-off valves on the supply and return bar (7)
- G1/2 manual air vent valve, 2 pcs (5)
- G1/2 swivel drain valve 2 pcs (6)
- G1 plug (1)
- G1/2 x G3/4 nipples (4)



Packaging

Index

	individual	bulk
1" 2-way manifold	1 pcs	-
1" 3-way manifold	1 pcs	-
1" 4-way manifold	1 pcs	-
1" 5-way manifold	1 pcs	-
1" 6-way manifold	1 pcs	-
1" 7-way manifold	1 pcs	-
1" 8-way manifold	1 pcs	-
1" 9-way manifold	1 pcs	-
1" 10-way manifold	1 pcs	-
1" 11-way manifold	1 pcs	-
1" 12-way manifold	1 pcs	-

**RZP 1" manifold**

- 2-12-way 1", 2 pcs (3)
- set of steel brackets (2)
- flow meters on the supply bars for regulating flow (7)
- thermostatic valves on the return bar fitted with knobs for manual regulation with possibility of connecting thermoelectric head (9)
- G1/2 manual air vent valve, 2 pcs (5)
- G1/2 swivel drain valve, 2 pcs (6)
- G1 plug (1)
- G1/2 x G3/4 nipples(4)

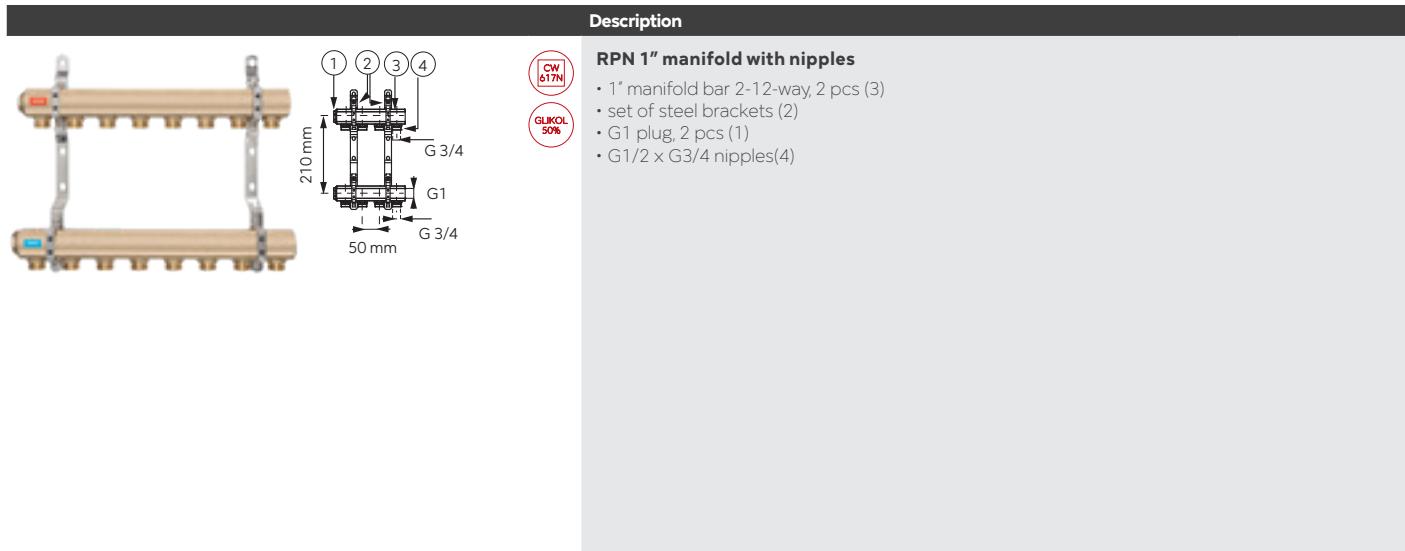


Packaging

Index

	individual	bulk
1" 2-way manifold	1 pcs	-
1" 3-way manifold	1 pcs	-
1" 4-way manifold	1 pcs	-
1" 5-way manifold	1 pcs	-
1" 6-way manifold	1 pcs	-
1" 7-way manifold	1 pcs	-
1" 8-way manifold	1 pcs	-
1" 9-way manifold	1 pcs	-
1" 10-way manifold	1 pcs	-
1" 11-way manifold	1 pcs	-
1" 12-way manifold	1 pcs	-

BRASS MANIFOLDS



Description

RPN 1" manifold with nipples

- 1" manifold bar 2-12-way, 2 pcs (3)
- set of steel brackets (2)
- G1 plug, 2 pcs (1)
- G1/2 x G3/4 nipples(4)

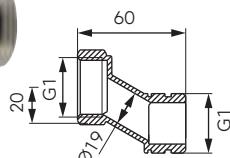


Packaging

Index	individual	bulk
RPN02	1 pcs	-
RPN03	1 pcs	-
RPN04	1 pcs	-
RPN05	1 pcs	-
RPN06	1 pcs	-
RPN07	1 pcs	-
RPN08	1 pcs	-
RPN09	1 pcs	-
RPN10	1 pcs	-
RPN11	1 pcs	-
RPN12	1 pcs	-



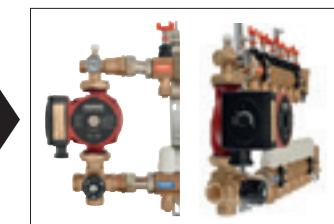
mixing group assembly
without eccentrics



mixing group assembly
by means of eccentrics

1" eccentric for manifold

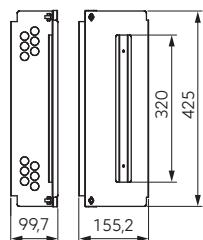
- allows to adjust spacing of manifold connections
- simple and easy mounting of mixing groups allowing to achieve vertical position
- 2 pcs per set



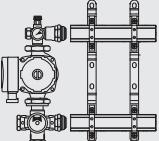
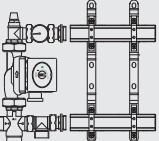
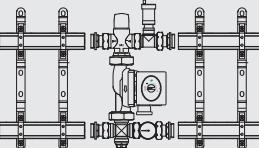
Packaging

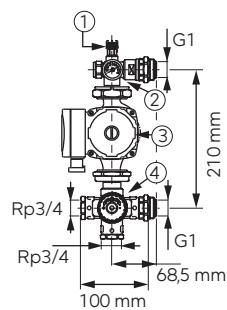
Index	individual	bulk
MR-SET	1 set (2 pcs)	-

Description					
 Flush-mounted depth-adjustable cabinet with front panel <ul style="list-style-type: none"> made entirely of 0.8 mm galvanized sheet metal laser-cut removable powder coated front panel colour: white adjustable depth adjustable height manifold mounting strips included in the set coin lock system 					
Outside width [mm]	Inside width [mm]	Height [mm]	Depth [mm]	Index	Packaging
380	335			SZP-0	1 pcs
480	435			SZP-1	1 pcs
610	565			SZP-2	1 pcs
760	715		575 - 665	SZP-3	1 pcs
840	795			SZP-4	1 pcs
1010	965			SZP-5	1 pcs
1100	1085			SZP-6	1 pcs
 Surface mounted cabinet 120 mm or 170 mm <ul style="list-style-type: none"> made entirely of 0.8 mm galvanized sheet metal laser-cut removable powder coated front panel colour: white manifold mounting strips included in the set coin lock system 					
Outside width [mm]	Inside width [mm]	Height [mm]	Depth [mm]	Index	Packaging
385	355			SZN-0	1 pcs
485	455			SZN-1	1 pcs
615	585			SZN-2	1 pcs
760	730		120	SZN-3	1 pcs
845	815			SZN-4	1 pcs
1015	985			SZN-5	1 pcs
1125	1095			SZN-6	1 pcs
615	585		580	SZN-2-170	1 pcs
845	815			SZN-4-170	1 pcs
1125	1095		170	SZN-6-170	1 pcs
 Shelf for mounting control unit NEW <ul style="list-style-type: none"> enables installing actuator control unit in cabinet close to the manifold suitable for wall-mounted and flush-mounted cabinets universal DIN 35 rail set including montage rails, rubber grommets and wing screws material: galvanized steel 0.8 mm thick 					
Index	Packaging				
SZL01	individual				
	1 pcs				6 pcs



MANIFOLD CABINETS SELECTION

Index	R	R+GM	R+ GM1F	R+ GM2F
				
SZP-0	2	-	-	-
SZP-1	5	2	2	-
SZP-2	8	5	4	-
SZP-3	10	8	7	6
SZP-4	12	10	8	8
SZP-5	15	13	12	11
SZP-6	17	15	14	14
	SZN-0	2	-	-
	SZN-1	5	-	-
	SZN-2	8	-	-
	SZN-3	10	-	-
	SZN-4	12	-	-
	SZN-5	15	-	-
	SZN-6	17	-	-
	SZN-2-170	8	5	4
	SZN-4-170	12	10	8
	SZN-6-170	17	15	14
	maximum number of manifold circuits			maximum circuit total of two manifolds
	SZL01	When using the shelf for mounting the control unit values from the table should be reduced by 3 circuits.		



Description

1" underfloor heating mixing group

The group includes:

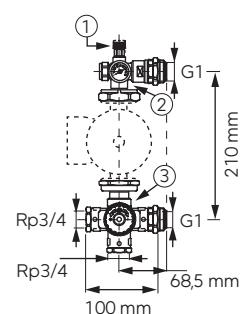
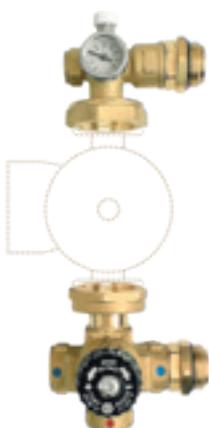
- 4-way thermostatic valve Rp3/4, temperature adjustment range 25 - 50°C (4)
- electronic circulation pump (3)
- thermometer 0 - 80°C (2)
- manual air vent (1)

Advantages:

- universal for all types of manifolds with a bar spacing of 210 mm
- accurate and easy to control
- pump included
- only 120 mm width of the mounted set

Packaging

Index	individual	bulk
GM40GPA	1 pcs	-
GM60GPA	1 pcs	-

with electronic pump 25-4-130 GPAII, Q_{max} = 2,4 m³/hwith electronic pump 25-6-130 GPAII, Q_{max} = 3,0 m³/h**1" manifold mixing group for 130 mm pump**

The group includes:

- 4-way thermostatic valve Rp3/4, Kv = 3.5 m³/h with temperature adjustment range 25 - 50°C (3)
- thermometer 0 - 80°C (2)
- manual air vent (1)
- 1 1/2" half unions for pump
- connections to the manifold with O-ring seal

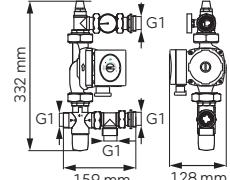
Advantages:

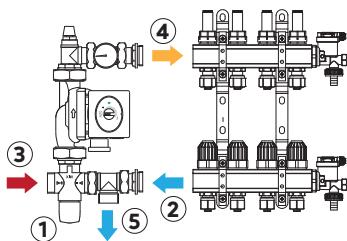
- universal for all types of manifolds with a bar spacing of 210 mm
- accurate and easy to control

Packaging

Index	individual	bulk
GM-WP	1 pcs	-

MIXING GROUPS

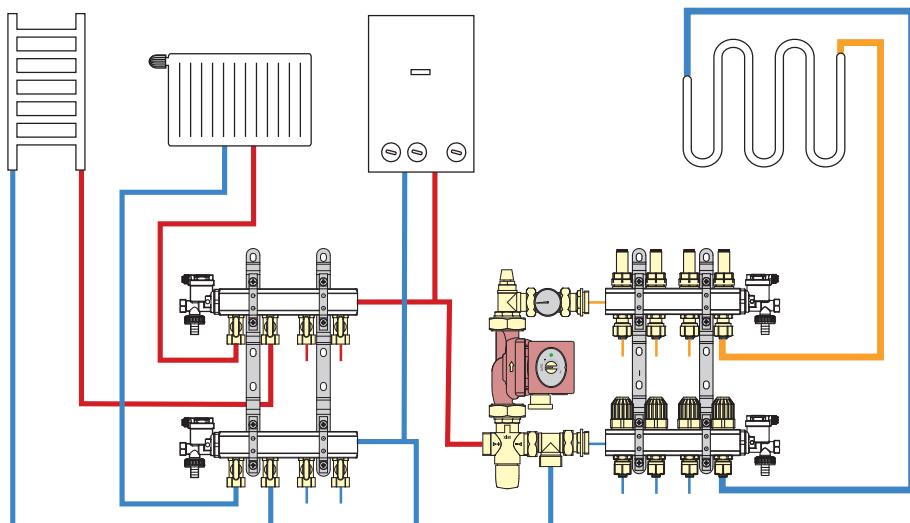
		Description
 		Mixing group GM1F The mixing group serves to lower and maintain the desired temperature of the heating medium in the surface heating system. Parameters: • static pressure (PN): max. 0.4 MPa (4 bar) • dynamic working pressure: max. 0.3 MPa (3 bar) • Kv: 19 m³/h • temperature regulation range: 20 - 40°C • accuracy of regulation: +/- 3°C The group contains: • 3-way thermostatic mixing valve • air vent • thermometer • set of unions Advantages: • universal group for all manifolds with 210 mm bar spacing • accurate and easy to control • reversible
		Packaging
Index with electronic pump 25-4-130 GPAII, Q _{max} = 2,4 m ³ /h GM1F-40GPA with electronic pump 25-6-130 GPAII, Q _{max} = 3,0 m ³ /h GM1F-60GPA without pump GM1F-WP	individual	bulk
	1 pcs	-
	1 pcs	-
	1 pcs	-

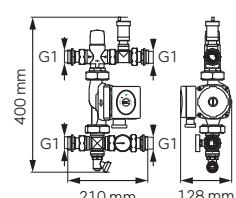


1. Thermostatic mixing valve (controls the temperature in the floor system)
2. Return of cold water from the floor heating system
3. Hot medium supply of floor heating system
4. Supplying the floor heating system with a medium of the desired temperature
5. Return to the boiler

Mixed systems with GM1F group

The group reduces and maintains the desired temperature of the heating medium in the surface heating system.





Description

Mixing group GM2F

The dual-function mixing group serves to lower and maintain the desired temperature of the heating agent of the surface heating system and to connect it with the high-parameter radiator system.

Parameters:

- static pressure (PN): max. 0.4 MPa (4 bar)
- dynamic working pressure: max. 0.3 MPa (3 bar)
- Kv: 19 m³/h

temperature regulation range: 20 - 40°C
accuracy of regulation: +/- 3°C

The group includes:

- 3-way thermostatic mixing valve
- automatic air vent with foot valve
- thermometer
- swivel drain valve
- set of unions

Advantages:

- double-function - allows to connect radiator and floor manifolds into a single system
- universal group for all manifolds with 210 mm bar spacing
- accurate and easy to control
- reversible



Packaging

Index

individual

bulk

GM2F-40GPA

1 pcs

-

GM2F-60GPA

1 pcs

-

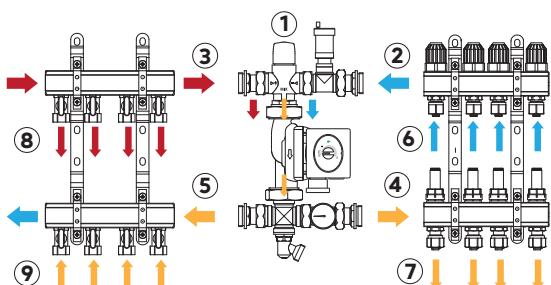
GM2F-WP

1 pcs

-

with electronic pump 25-4-130 GPAII, Q_{max} = 2,4 m³/hwith electronic pump 25-6-130 GPAII, Q_{max} = 3,0 m³/h

without pump

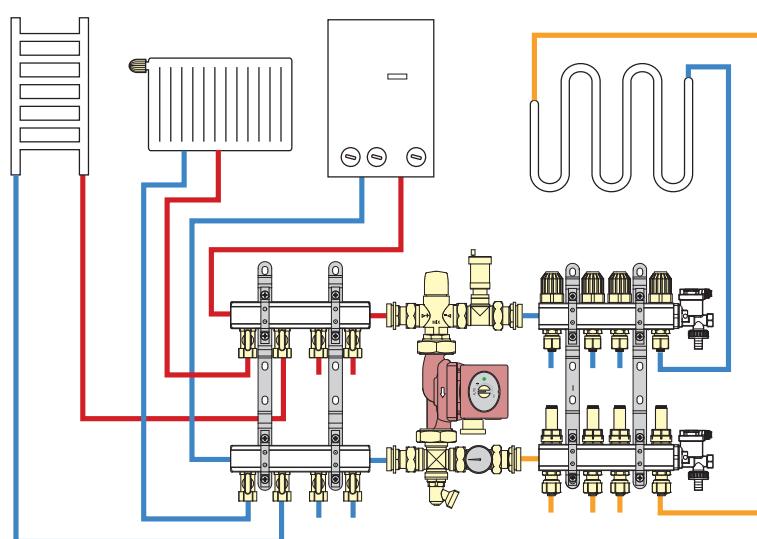


- Thermostatic mixing valve (controls the temperature in the floor system)
- Return of cold water from the floor heating system
- Hot medium supply of floor heating system
- Supplying the floor heating system with a medium of the desired temperature
- Return to the boiler
- Return from floor heating system
- Floor heating system supply
- Radiator heating system supply
- Return from the radiator heating system

System with dual-function mixing group GM2F

The group reduces and maintains the desired temperature of the heating medium in the surface heating system.

Two-functional - possibility of connecting the manifold for convection and surface heaters in one system.



Application example

Installation diagram

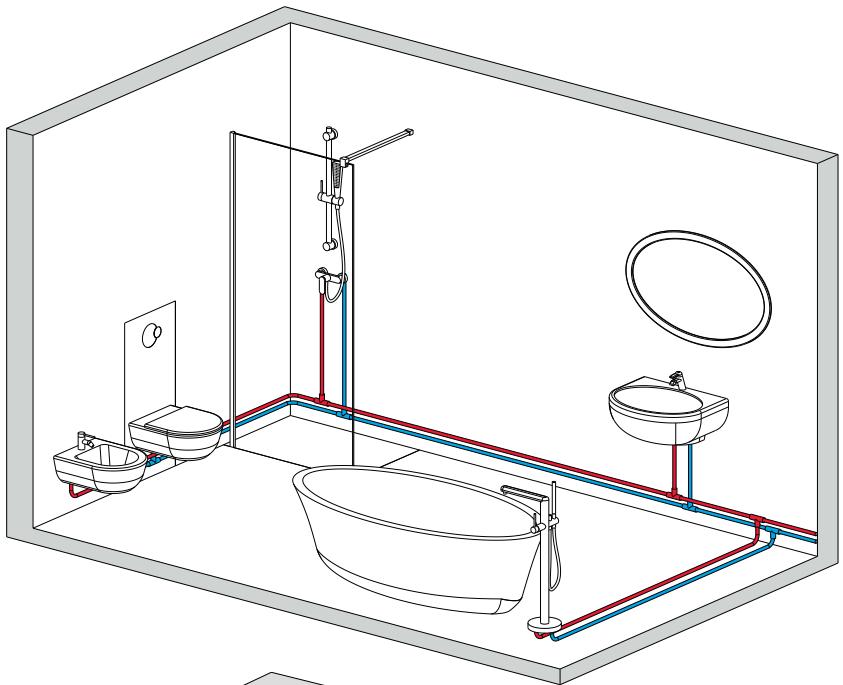
When doing installation with manifolds, each distribution point (bathroom, kitchen, toilet, washing machine, dishwasher, etc.) is connected directly with a separate outlet in the manifold, which allows to cut off any point if necessary, without having to turn off the flow in entire apartment or building.

Comparison of expenditures with the use of each system

Type of installation	Branch system	Manifold system
Number of fittings (T-pieces)	7	0
Number of connections	30	20

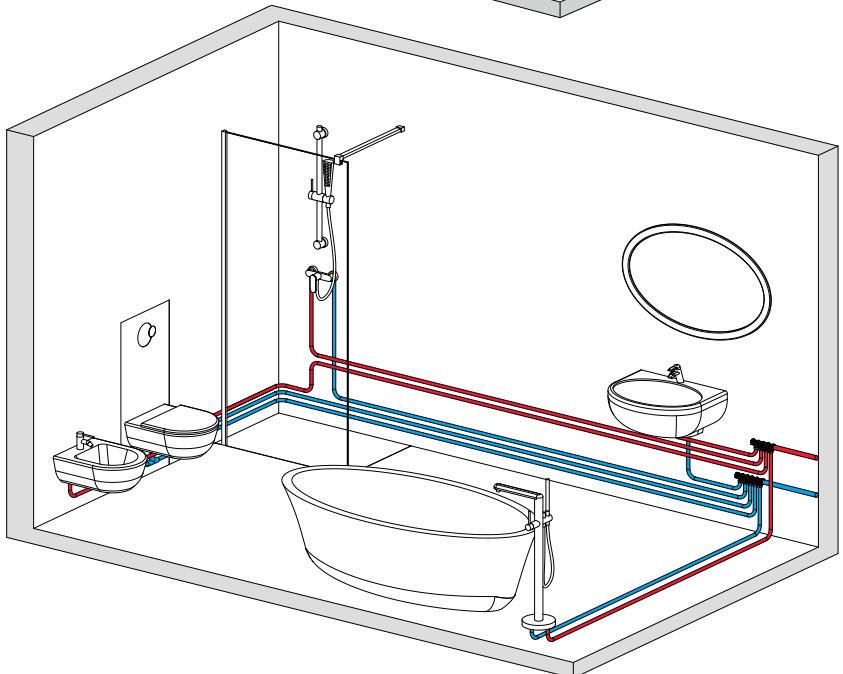
Branch distribution

example →



Manifold distribution

example →



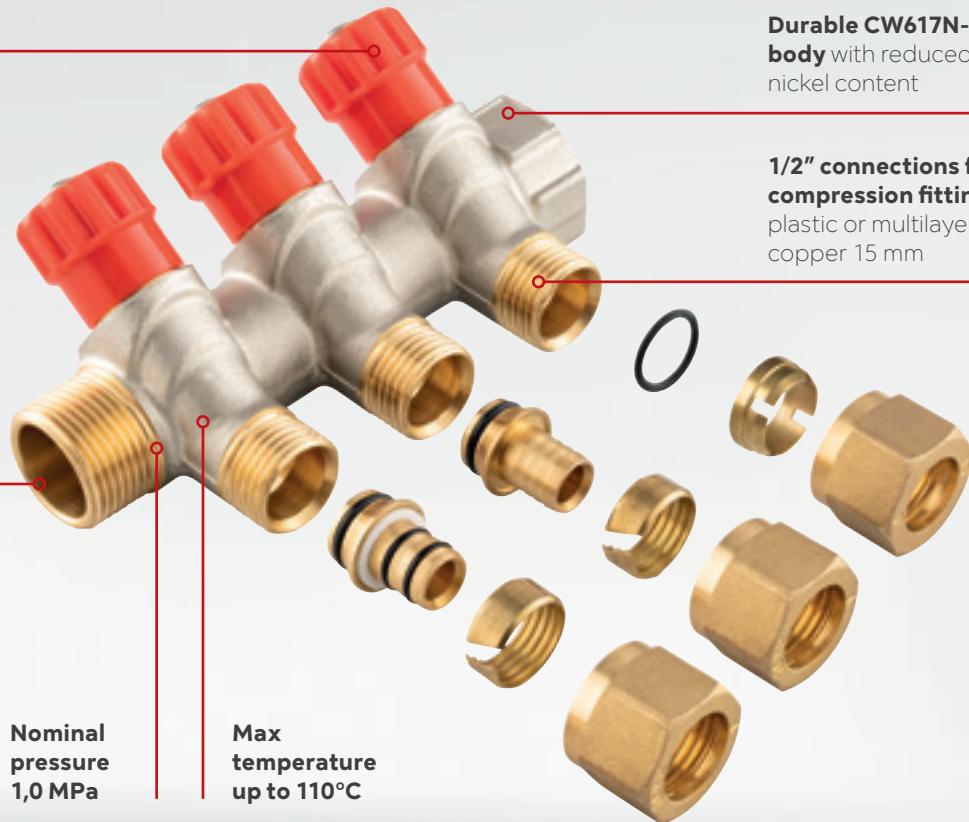
Sanitary manifolds

Exchangeable knobs
blue/red

Durable CW617N-4MS brass body with reduced lead and nickel content

1/2" connections for compression fittings for pipes:
plastic or multilayer 16x2 mm,
copper 15 mm

Suitable for potable water (nickel-free contact surfaces)



Workmanship and materials:

- the forged brass body of the manifold was made with use of Advanced Body Technology of CW617N-4MS brass with reduced lead and nickel content
- the 1/2" outlets are integral elements of the brass beam, and the valve heads are placed at an angle so that they had the least possible influence on the flow through the manifold
- manifolds are adapted for potable water - the surface that is in contact with water (inside of the body and connection threads) is not nickel-plated
- the design of the beam as male-female fitting allows to create manifolds with a greater number of outputs with the modules
- The flow at each output is controlled by poppet type valves, and pipes are connected with 1/2" eurocone type fittings – for 16x2 mm plastic or multi-layer pipes and for 15 mm copper pipes
- due to the fact that usually the number of cold and hot water outlets in buildings is different - manifolds are offered as single beams, and the offer is complemented by sets of dedicated steel brackets for assembling sets consisting of two beams



Application and advantages:

Sanitary manifolds are an increasingly popular alternative to branch distribution of domestic water. The main advantage of this solution is the elimination of the risk associated with making tee pipe connections in hard-to-reach places, e.g. in floors or walls, the repair of which in the event of leakage comes at a high cost. Pipe connections are made only at manifolds and water distribution points, which, together with the saving of time needed to complete the installation, allows to compensate the cost of purchasing the manifold and additional meters of pipe.

Another advantage of using manifolds is the pressure equalization at all points. When the flow is opened at one point, the pressure drop in the others is much lower than when using a branch distribution, thanks to which, for example, the troublesome effect of water temperature instability is eliminated. It's most often experienced when taking a shower and someone opens other cold water outlet which causes pressure drop in cold water line and rising the temperature in the shower.

Sanitary manifolds are used not only in houses and flats, but also in commercial buildings and public facilities - e.g. in hotels, dormitories, public toilets - where an additional advantage is control over individual outlets from places inaccessible to users. In such cases, sanitary manifolds are most often installed next to the domestic water risers and allow for shutting off the flow in only one device or room, thus ensuring the uninterrupted operation of the rest of the system.

SANITARY MANIFOLDS

		Description		
			NEW	
		3/4" x 1/2" sanitary manifold <ul style="list-style-type: none"> • 3/4" M-F beam, 2-4 ways • poppet type shut-off valves • blue and red knobs included • nominal pressure: 10 bar (PN10) • maximum temperature: 110°C 	NEW	
	Packaging			
L [mm]	Index	individual		bulk
2-way manifold	RDW200200	1 pcs	40 pcs	
3-way manifold	RDW200300	1 pcs	40 pcs	
4-way manifold	RDW200400	1 pcs	32 pcs	
		1" x 1/2" sanitary manifold <ul style="list-style-type: none"> • 1" M-F brass beam, 2-4 ways • poppet type shut-off valves • blue and red knobs included • nominal pressure: 10 bar (PN10) • maximum temperature: 110°C 	NEW	
	Packaging			
L [mm]	Index	individual		bulk
2-way manifold	RDW250200	1 pcs	40 pcs	
3-way manifold	RDW250300	1 pcs	40 pcs	
4-way manifold	RDW250400	1 pcs	32 pcs	
		Set of brackets for sanitary manifolds <ul style="list-style-type: none"> • two bracket in the set • equipped with rubber pads • material: galvanized steel 	NEW	
	Packaging			
brackets for manifolds	Index	individual		bulk
3/4"	LC2RDW20	1 pcs	30 pcs	
1"	LC2RDW25	1 pcs	30 pcs	

Heating control

HEATING CONTROL



DAILY ELECTRONIC
CONTROLLER
138



WEEKLY ELECTRONIC
CONTROLLER
138



UNDERFLOOR HEATING
CONTROL UNITS
139

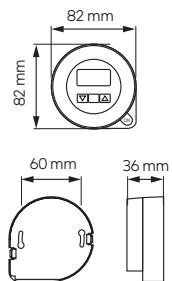


THERMOELECTRIC
HEADS
139



CONTROLLERS
AND THERMOSTATS
139

HEATING CONTROL



Description

Daily electronic controller, wired

- designed heating and air-conditioning systems
- simple and easy temperature setting
- innovative automatic function storing two daily settings
- heating device operation signalling
- battery low signalling
- temperature adjustment indication
- test mode permitting to check correct functioning of controller
- controller switch-off function after heating season
- compliance with EMC, LVD, RoHS directives
- voltage: 3V DC (2 AA batteries)
- temperature measuring range: from -9.9°C to +45°C
- temperature adjustment range: 5 - 45°C
- temperature indication precision: 0.1°C
- temperature adjustment precision: 0.2°C
- hysteresis range: 0.2°C/0.5°C/1°C/2°C/5°C
- working temperature from 2°C to 45°C
- outlet transmitter, voltage free, SPDT (relayed)
- max. load: 5A, 230V, 50Hz
- external sensor connection possible



Packaging

Index

individual

bulk

FQ1

1 pcs



Weekly electronic controller, wired

- temperature setting range:
- 5 - 35°C in cooperation with central heating furnace
- 5 - 45°C in floor heating mode
- voltage: 3V DC (2 AA batteries)
- large, easy to read, backlit display
- designed for operation in heating and air-conditioning systems
- separate program for each of the 7 days of the week
- two set temperatures: comfort and economy
- temperature measuring range: 0 ~ 50°C
- temperature setting: every 30 minutes
- frequency of room temperature control: every 1 minute
- temperature step: 0.2°C
- hysteresis (on/off difference): 0.4°C or 1.0°C as selected by user
- accuracy of temperature readings: 0.1°C
- battery discharge LED
- control outlet: 16 (3.5)A/50V AC, potential-free
- dimensions (L/H/W): 132.5 x 85 x 27.6 mm
- external sensor connection possible



Packaging

Index

individual

bulk

F2006

1 pcs



Description

Underfloor heating control unit, wired

- module supply voltage: 230V/50Hz
- heating pump control voltage: 230V/50Hz
- actuator supply voltage: 230V/50Hz
- maximum load (sum): 3A
- dimensions (W/H/D) mm: 270 x 95 x 50

Functions:

- operates in heating or air-conditioning systems
- controls up to six heating circuits
- control of circulation pump operation
- controls boiler operation (switchable relay, potential-free)
- possibility of switching outlet in test mode
- Anti-stop function - activates the pump and actuator outside the heating season to prevent their blocking
- power-saving function
- can be mounted on a DIN rail, also in an electrical cabinet
- possibility to connect modules in series in order to increase the number of circuits



Packaging

Index

individual

bulk

FT6

1 pcs

**Thermocouple head**

- voltage: 230V/50Hz
- normally closed
- connection: M30 x 1.5
- spindle pitch: 3 - 5 mm
- protection class: IP54, II protection class
- actuator inertia: approx. 3 minutes
- maximum power consumption: 2W
- working temperature: from -5°C to 60°C



Packaging

Index

individual

bulk

FTE01

1 pcs

100 pcs

**Strap thermostat**

- single-pole, switching contacts mounted with screw clamp
- temperature control range: + 10°C to + 90°C
- voltage: 230V/50 Hz
- load on the terminals: 15A (2,5 A)/250V
- degree of electrical protection: IP20
- temperature gradient: 1°C/min.



Packaging

Index

individual

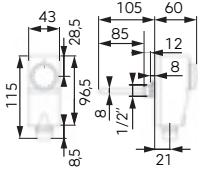
bulk

91934010

1 pcs

60 pcs

HEATING CONTROL

		Description					
		<p>Immersion thermostat 30 - 90/16A/250V</p> <ul style="list-style-type: none"> temperature setting range: 30°C ÷ 90°C ($\pm 3^\circ\text{C}$) differential: 4 $\pm 2^\circ\text{C}$ degree of electrical protection: IP40 protection class: Class II thermal gradient: < 1 K/min max. head temperature: 80°C max. capillary temperature: 110°C max. pressure of the shield: 10 bar terminals: Ag 1000/1000 load on the terminals: 16A (5A)/250V AC disconnecting or switching contacts: SPDT type action type: 1B gland: M20x1.5 connection thread: G1/2 capillary length: 85 mm installation location: in tanks 					
		<table border="1"> <thead> <tr> <th>Packaging</th> </tr> </thead> <tbody> <tr> <td>individual</td> </tr> <tr> <td>1 pcs</td> </tr> <tr> <td>bulk</td> </tr> <tr> <td>25 pcs</td> </tr> </tbody> </table>	Packaging	individual	1 pcs	bulk	25 pcs
Packaging							
individual							
1 pcs							
bulk							
25 pcs							
	Index 91934020						
		<table border="1"> <thead> <tr> <th>Packaging</th> </tr> </thead> <tbody> <tr> <td>individual</td> </tr> <tr> <td>1 pcs</td> </tr> <tr> <td>bulk</td> </tr> <tr> <td>-</td> </tr> </tbody> </table>	Packaging	individual	1 pcs	bulk	-
Packaging							
individual							
1 pcs							
bulk							
-							
	Index FS250						

Radiator accessories

RADIATOR ACCESSORIES



PLUGS
142

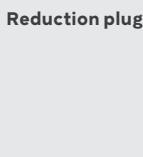


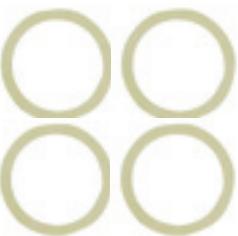
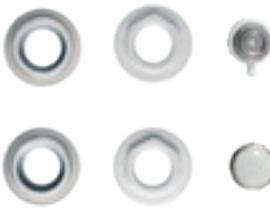
AIR VENTS
144



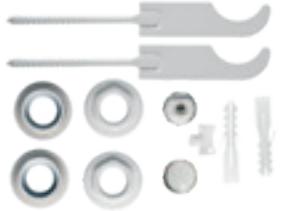
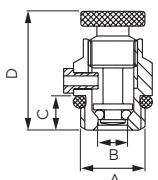
RADIATOR HOOKS
147

RADIATOR ACCESSORIES

Description					
					
Packaging					
Index	individual	bulk			
1" right GG2L20	-	10 pcs			
1" left GG2P20	-	10 pcs			
					
					
Packaging					
Index	individual	bulk			
1"x1/2" left GG3L20	-	10 pcs			
1"x1/2" right GG3P20	-	10 pcs			
1"x3/4" right G93P20	-	10 pcs			
1"x3/4" left G93L20	-	10 pcs			
1/2" blanking plug with an O-ring					
• nickel plated					
					
					
Packaging					
Index	individual	bulk			
KZ1	1 pcs	230 pcs			
Plug gasket					
					
					
Packaging					
Index	individual	bulk			
GG4	1 pcs	3000 pcs			

Description			
Index			
			Plug gasket set – 4 pcs
	Packaging		
Index	individual	bulk	
GG4W	1 set	-	
			Plug set
<ul style="list-style-type: none"> • 2x 1" x 1/2" reduction plug left-handed with gasket • 2x 1" x 1/2" reduction plug right-handed with gasket • 1/2" automatic venting valve • 1/2" blanking plug 			
	Packaging		
Index	individual	bulk	
ZGG1BA	1 pcs	50 pcs	
			Plug set
<ul style="list-style-type: none"> • 2x 1" x 1/2" reduction plug left-handed with gasket • 2x 1" x 1/2" reduction plug right-handed with gasket • 1/2" automatic venting valve • 1/2" blanking plug • 2x painted radiator hook • 2x rawlplugs 			
	Packaging		
Index	individual	bulk	
ZGG2BA	1 pcs	40 pcs	
			Plug set
<ul style="list-style-type: none"> • 2x 1" x 1/2" reduction plug left-handed with gasket • 2x 1" x 1/2" reduction plug right-handed with gasket • 1/2" automatic venting valve • 1/2" blanking plug • 3x painted radiator hook • 3x rawlplugs 			
	Packaging		
Index	individual	bulk	
ZGG3BA	1 pcs	40 pcs	

RADIATOR ACCESSORIES

Description			
Set of plugs <ul style="list-style-type: none"> • 2x 1"x1/2" reduction plugs left-handed with gasket • 2x 1"x1/2" reduction plugs right-handed with gasket • 1/2" manual venting valve • 1/2" blanking plug • vent valve key 			
			
Index	Packaging	individual	bulk
ZGG1B	1 pcs	50 pcs	
			
Plug set <ul style="list-style-type: none"> • 2x 1"x 1/2" reduction plugs left-handed with gasket • 2x 1"x 1/2" reduction plugs right-handed with gasket • 1/2" manual venting valve • 1/2" blanking plug • vent valve key • 2x painted radiator hook • 2x rawlplugs 			
			
Index	Packaging	individual	bulk
ZGG2B	1 pcs	40 pcs	
			
Plug set <ul style="list-style-type: none"> • 2x reduction plugs 1"x1/2" left with seal • 2x reduction plugs 1"x1/2" right with seal • 1/2" manual venting valve • 1/2" blanking plug • key to vent valve • 3x painted radiator hanger • 3x rawlplugs 			
			
Index	Packaging	individual	bulk
ZGG3B	1 pcs	40 pcs	
			
Mechanical air vent with metal knob <ul style="list-style-type: none"> • max. working temperature: 120°C • max. working pressure: 1.0 MPa (10 bar) • O-ring seal 			
			
			
A	B [mm]	C [mm]	D [mm]
1/4"	58	7	24,5
3/8"	58	8	25,5
Index	Packaging	individual	bulk
RA501/8	-	100 pcs	RA501/8-W
RA501/10	-	100 pcs	RA501/10-W

Description							
				Packaging		Retail	
A	B [mm]	C [mm]	D [mm]	Index	individual	bulk	Index
1/8"	3	85	28	RA502/5	-	100 pcs	RA502/5-W
1/4"	3	85	25	RA502/8	-	100 pcs	RA502/8-W
3/8"	3	95	26	RA502/10	-	100 pcs	RA502/10-W
1/2"	3	9	24,5	RA502/15	-	50 pcs	RA502/15-W

1/2" mechanical air vent with knob							
							
							
Packaging							
Index	individual		bulk	Index			
O15M	1 pcs		-	O15MW			

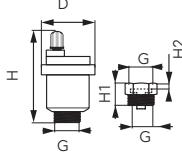
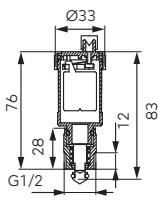
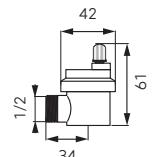
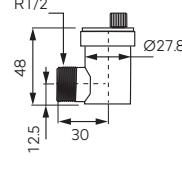
1/2" mechanical air vent with key							
							
							
							

Packaging							
Index	individual		bulk	Index			
O18Y	1 pcs		-	500szt.			

1" automatic air vent for aluminium radiators							
							
							

Packaging							
Index	individual		bulk	Index			
OG25AL	1 pcs		50 pcs	OG25ALE			
OG25AP	1 pcs		50 pcs	OG25APE			

RADIATOR ACCESSORIES

Description								
					Packaging	Retail		
D [mm]	H [mm]	H1 [mm]	H2 [mm]	G	Index	individual	bulk	Index
42	585	24	5	3/8"	O10AS	1 pcs	50 pcs	
42	585	25	6	1/2"	O15AS	1 pcs	50 pcs	O15ASE
					 EAN			
					Packaging	Retail		
					Index	individual	bulk	Index
					O10AS	1 pcs	50 pcs	
					O15AS	1 pcs	50 pcs	O15ASE
					 EAN			
					Packaging	Retail		
					Index	individual	bulk	
					O15AS2	1 pcs	100 pcs	
					 EAN			
					Packaging	Retail		
					Index	individual	bulk	
					O15ASB	1 pcs	50 pcs	
					 EAN			
					Packaging	Retail		
					Index	individual	bulk	
					O15ASB2	1 pcs	120 pcs	



Description

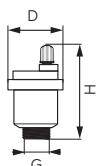
1/2" hygoscopic automatic air vent



Packaging

Retail

Index	individual	bulk	Index
O15AH	12 pcs	360 pcs	O15AHW



Automatic air vent

- without stop valve



Packaging

D [mm]	H [mm]	G	Index	individual	bulk
42	58,5	3/8"	O10A	1 pcs	50 pcs
42	58,5	1/2"	O15A	1 pcs	50 pcs



Bent radiator hook

- zinc-plated with two rawlplugs



Packaging

Retail

Index	individual	bulk	Index
GG7K	2 pcs	200 pcs	GG7KW



Painted radiator hook

- with a rawlplug

Packaging

Index	individual	bulk
GG77M	2 pcs	100 pcs

RADIATOR ACCESSORIES

Description			
 Zinc plated radiator hook • with rawlplug-length 24 cm			
	Packaging	Retail	
Index	individual	bulk	Index
GG77D	2 pcs	50 pcs	GG77DW
 Radiator hook • with rawlplug			
	Packaging	Retail	
Index	individual	bulk	Index
GG77	2 pcs	100 pcs	GG77W
 Painted bent radiator hook			
	Packaging		
Index	individual		bulk
GG7M	1 pcs		100 pcs
 Zinc-plated bent radiator hook			
	Packaging	Retail	
Index	individual	bulk	Index
GG7	50 pcs	-	GG7W



Description

nipple for aluminium radiators



Packaging

Retail

Index

individual

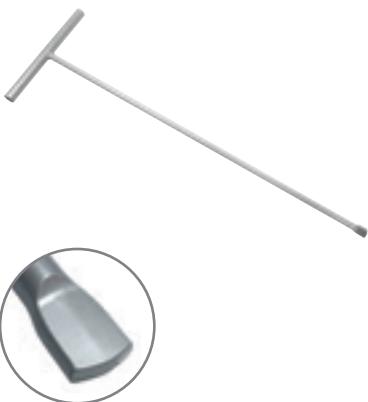
bulk

Index

GG8

500 pcs

GG8W



Key for 1" nipples for aluminium radiators



Packaging

individual

bulk

Index

GG9P

1 pcs



1" radiator nipple gasket

Packaging

individual

bulk

Index

GG5

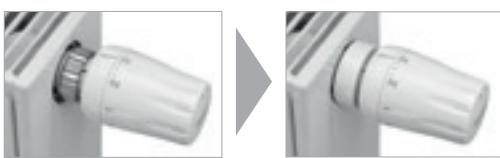
100 pcs

2500 pcs



Thermostatic head disassembly blocking device

- ABS ring to be locked on the nut of the thermostatic head
- Fits: GT10, GT11, GT12, GT20
- Prevents removal of the head without tools
- One-off use lock, can only be removed by destroying it
- Used with GT12 head, it additionally prevents change of setting limit
- The set includes an additional element for blocking GT12 head settings



Packaging

individual

bulk

Index

GT-LOCK1

1 pcs

500 pcs

Radiator fittings

RADIATOR FITTINGS



THERMOSTATIC VALVES
152



THERMOSTATIC HEADS
153

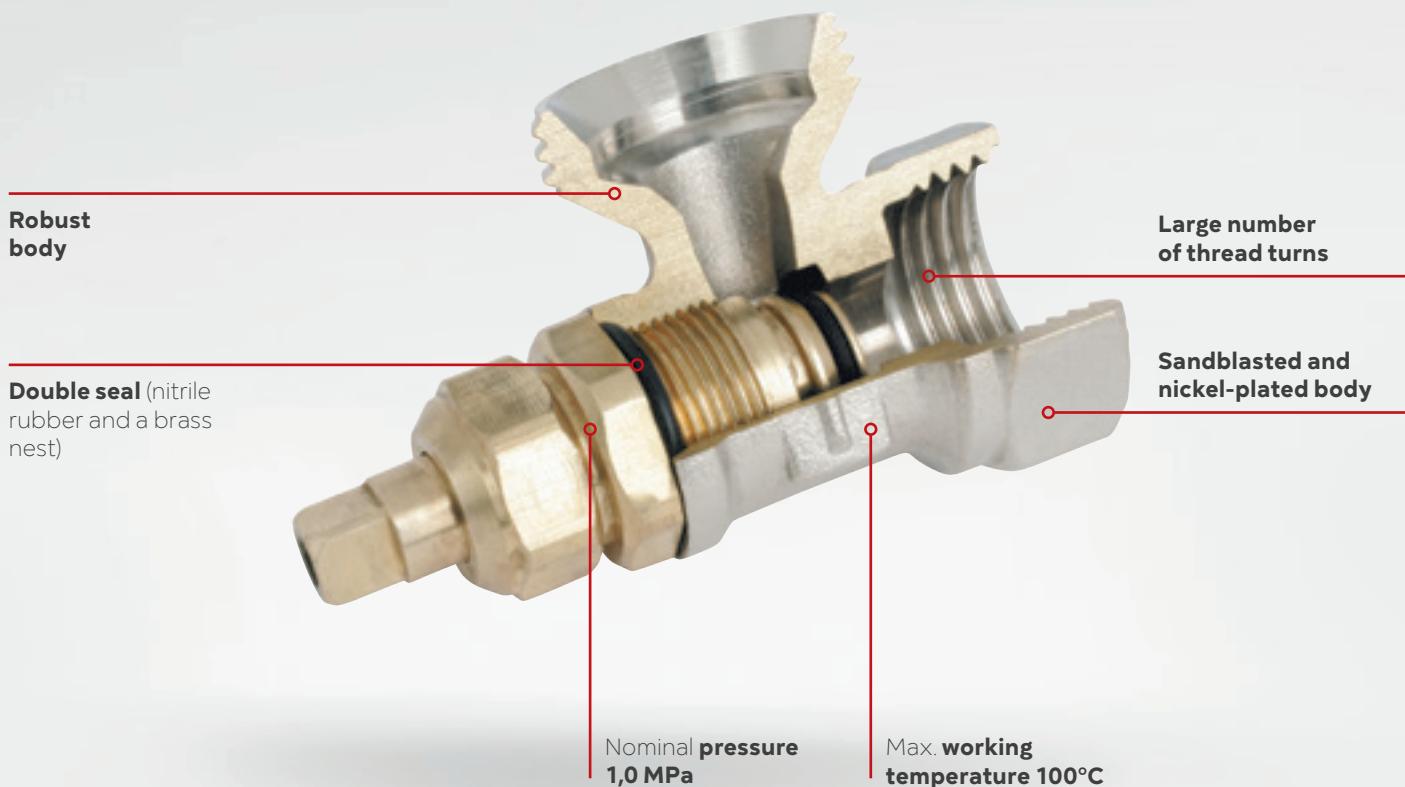


RADIATOR VALVES
158



RADIATOR SETS
159

Radiator valves



Advantages:

- all radiator valves are subjected to 100% tightness test
- simple design, high reliability
- double seal in control valves: rubber gasket and special brass seat
- the valve body is embossed with permanent markings, including the manufacturer's label

Operating parameters

- nominal pressure 1.0 MPa (10 bar)
- working temperature up to 100°C
- working media: hot, cold, central water heating
- radiator valves are attested by the Institute of Energy in Radom

Workmanship and materials:

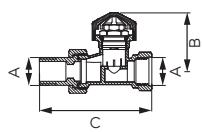
- bodies and nuts are made of moulded parts and processed by machine tools
- body material: brass
- seals: nitrile rubber NBR, brass socket
- lever/knob: ABS

Finishing:

- radiator valves are sandblasted and then nickel-plated
- following special orders - valves can be only chromed or just sandblasted

THERMOSTATIC VALVES

Description



Straight thermostatic valve

- max. permissible static pressure: 1 MPa
- max. permissible pressure difference: 0.06 MPa
- max. working temperature: 100°C
- connection thread for head: M30 x 1.5



EAN



EAN

		Packaging	Retail (bags)	Retail (Eurohanger)							
DN	A	B [mm]	C [mm]	Nominal flow qmN	Pressure difference impact	Pre-setting regulation	Index	individual	bulk	Index	Index
15	Rp 1/2	44	85	0,130 m³/h	0,8 K	yes	ZT2Y	9 pcs	108 pcs	ZT2YE	
15	Rp 1/2	44	85	0,137 m³/h	0,3 K	no	ZT2YS	9 pcs	108 pcs	ZT2YSW	
20	Rp 3/4	45,5	100	0,162 m³/h	0,6 K	yes	ZT3Y	8 pcs	72 pcs	ZT3YE	

DN	A	B [mm]	C [mm]	Nominal flow qmN	Pressure difference impact	Pre-setting regulation	Index	individual	bulk	Index	Index
15	Rp 1/2	44	85	0,140 m³/h	0,6 K	yes	ZT5Y	10 pcs	120 pcs	ZT5YE	
15	Rp 1/2	44	85	0,153 m³/h	0,3 K	no	ZT5YS	10 pcs	120 pcs	ZT5YSW	
20	Rp 3/4	45,5	100	0,181 m³/h	0,6 K	yes	ZT6Y	89szt.	81 pcs	ZT6YE	

DN	A	B [mm]	C [mm]	Nominal flow qmN	Pressure difference impact	Pre-setting regulation	Index	individual	bulk	Index	Index
15	Rp 1/2	44	85	0,140 m³/h	0,6 K	yes	ZT5Y	10 pcs	120 pcs	ZT5YE	
15	Rp 1/2	44	85	0,153 m³/h	0,3 K	no	ZT5YS	10 pcs	120 pcs	ZT5YSW	
20	Rp 3/4	45,5	100	0,181 m³/h	0,6 K	yes	ZT6Y	89szt.	81 pcs	ZT6YE	

Index	Packaging	Retail (bags)	
Index	individual	bulk	Index
ZTI2Y	10 pcs	60 pcs	ZTI2YW

Index	Packaging	Retail (bags)	
Index	individual	bulk	Index
ZT15Y	10 pcs	60 pcs	ZT15YW



Description

Thermostatic head

- connection M30 x 1.5
- max. ambient temperature: 50°C
- adjustment scale: 0 - 5
- temperature adjustment range: up to 28°C
- anti-freeze protection: ~ 7°C
- closing function (0)
- white



Index	Packaging		Retail (Eurohanger) Index
	individual	bulk	
GT10	1 pcs	100 pcs	GT10E

**Thermostatic head**

- connection M30 x 1.5
- max. ambient temperature: 50°C
- adjustment scale: 0 - 5
- temperature adjustment range: up to 28°C
- anti-freeze protection: ~ 7°C
- closing function (0)
- white



Index	Packaging		Retail (Eurohanger) Index
	individual	bulk	
GT11	1 pcs	100 pcs	GT11E

**Thermostatic head**

- connection M30 x 1.5
- possibility to limit minimum or maximum setting
- maximum ambient temperature: 50°C
- adjustment scale: 0 - 5
- temperature adjustment range: up to 28°C
- anti-freeze protection: ~ 7°C
- closing function (0)
- white



Index	Packaging		bulk
	individual	bulk	
GT12	1 pcs	100 pcs	

**Thermostatic head with limitation from 16°C**

- connection M30 x 1.5
- maximum ambient temperature: 50°C
- adjustment scale: 2 - 5
- temperature adjustment range: 16°C - 30°C
- white



Index	Packaging		bulk
	individual	bulk	
GT12-16	1 pcs	100 pcs	

THERMOSTATIC HEADS

Description			
Thermostatic head <ul style="list-style-type: none"> connection M30 x 1.5 max. ambient temperature: 50°C adjustment scale: 0 - 5 temperature control range: up to 28°C anti-freeze protection: ~ 6°C closing function (0) white 			
		Packaging	
Index		individual	bulk
GT20B		1 pcs	75 pcs
Thermostatic head <ul style="list-style-type: none"> connection: M30 x 1.5 maximum ambient temperature: 50°C adjustment scale: * - 5 temperature control range: up to 30°C anti-freeze protection: ~ 9°C white 			
		Packaging	
Index		individual	bulk
GT30B		1 pcs	75 pcs
Thermostatic head <ul style="list-style-type: none"> connection: M30x1.5 maximum ambient temperature: 50°C adjustment scale: * - 5 temperature adjustment range: up to 30°C anti-freeze protection: ~ 9°C chrome 			
		Packaging	
Index		individual	bulk
GT31B		1 pcs	75 pcs
Thermostatic head <ul style="list-style-type: none"> connection: M30 x 1.5 max. ambient temperature: 50°C adjustment scale: * - 5 temperature adjustment range: up to 30°C anti-freeze protection: ~ 9°C white/chrome 			
		Packaging	
Index		individual	bulk
GT32B		1 pcs	75 pcs



Description

Thermostatic head

- connection: M30x1.5
- maximum ambient temperature: 50°C
- adjustment scale: * - 5
- temperature adjustment range: up to 30°C
- anti-freeze protection: ~ 9°C
- anthracite

**Packaging****Index**

individual

bulk

GT33B

1 pcs

75 pcs

**Thermostatic head**

- connection: M30x1.5
- maximum ambient temperature: 50°C
- adjustment scale: * - 5
- temperature adjustment range: up to 30°C
- anti-freeze protection: ~ 9°C
- black

**Packaging****Index**

individual

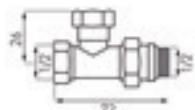
bulk

GT34B

1 pcs

75 pcs

RADIATOR VALVES



GLYCOL
50%

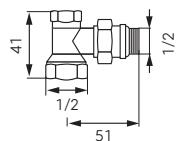
Description

Radiator cut-off straight valve 1/2" x 1/2"

- connection with additional O-ring
- water, 50% glycol concentration
- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C

Packaging

Index	individual	bulk
ZPI2Y	10 pcs	120 pcs



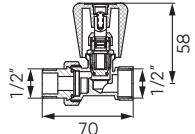
GLYCOL
50%

Radiator cut-off angle valve 1/2" x 1/2"

- connection with additional O-ring
- water, 50% glycol concentration
- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C

Packaging

Index	individual	bulk
ZPI5Y	10 pcs	120 pcs



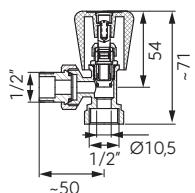
Straight radiator valve 1/2" with gland

- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C



Packaging

Index	individual	bulk	Index	Index
ZG2Y	12 pcs	144 pcs	ZG2YW	ZG2YE



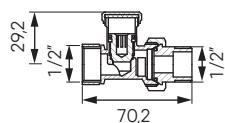
1/2" angle radiator valve with gland

- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C



Packaging

Index	individual	bulk	Index	Index
ZG5Y	12 pcs	144 pcs	ZG5YW	ZG5YE



Description

1/2" straight cut-off radiator valve

- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C



Packaging

Retail (bags)

Retail (Eurohanger)

Index

individual

bulk

Index

Index

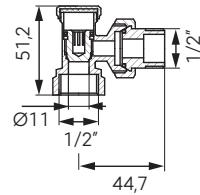
ZP2Y

16 pcs

192 pcs

ZP2YW

ZP2YE

**1/2" angle cut-off radiator valve**

- nominal pressure: 1.0 MPa (10 bar)
- max. working temperature: 100°C



Packaging

Retail (bags)

Retail (Eurohanger)

Index

individual

bulk

Index

Index

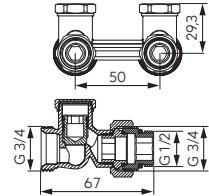
ZK2Y

16 pcs

192 pcs

ZK2YW

ZK2YE

**Double valve for bottom connected radiators, straight**

- connections 3/4" M x F3/4" F or 3/4" M x 1/2" M
 - reduction nipples included
- conical sealing
- poppet type shut-off valves
- nominal pressure: 1,0 MPa (10 bar)
- maximum working temperature: 100°C



Packaging

Retail (bags)

Retail (Eurohanger)

Index

individual

bulk

Index

Index

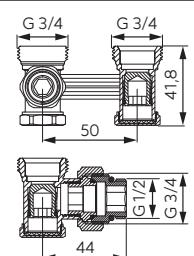
LZ06YK

8 pcs

72 pcs

LZ06YKW

LZ06YKE

**Double valve for bottom connected radiators, angle**

- connections 3/4" M x F3/4" F or 3/4" M x 1/2" M
 - reduction nipples included
- conical sealing
- poppet type shut-off valves
- nominal pressure: 1,0 MPa (10 bar)
- maximum working temperature: 100°C



Packaging

Retail (bags)

Retail (Eurohanger)

Index

individual

bulk

Index

Index

LZ07YK

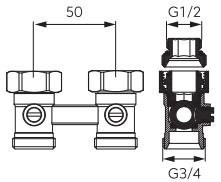
8 pcs

72 pcs

LZ07YKW

LZ07YKE

RADIATOR VALVES



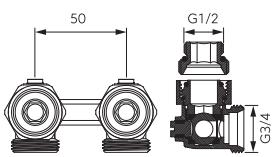
Description

Double valve for bottom connected radiators, straight

- connections 3/4" M x F3/4" F or 3/4" M x 1/2" M – reduction nipples included
- conical sealing
- ball shut-off valves
- nominal pressure: 1,0 MPa (10 bar)
- maximum working temperature: 100°C

Packaging

Index	individual	bulk
LZ06YKN	8 pcs	72 pcs



Double valve for bottom connected radiators, angle

- connections 3/4" M x F3/4" F or 3/4" M x 1/2" M – reduction nipples included
- conical sealing
- ball shut-off valves
- nominal pressure: 1,0 MPa (10 bar)
- maximum working temperature: 100°C

Packaging

Index	individual	bulk
LZ07YKN	10 pcs	90 pcs

Description			
		Packaging	
Index		individual	bulk
	Straight thermostatic set with presetting valve Elements of the set: <ul style="list-style-type: none">GT12 thermostatic head with M30 x 1.5 connectionZT2Y thermostatic straight valve with presettingZP2Y straight cut-off valve Technical parameters: <ul style="list-style-type: none">max. working temperature: 100°Cmax. working pressure: 1 MPa (10 bar)max. ambient temperature: 50°Cscale of adjustment: 0 - 5adjustment range: up to 29°Cvalve connection diameter: 1/2"		Packaging
ZTMN01		1 pcs	16 pcs
Straight 1/2" thermostatic set with presetting valve and thermostatic head with 16°C limit			
		Packaging	
Index		individual	bulk
	ZTMN01-16	1 pcs	16 pcs
Angle thermostatic set with presetting valve			
		Packaging	
Index		individual	bulk
	ZTMN02	1 pcs	16 pcs
Angle 1/2" thermostatic set with presetting valve and thermostatic head with 16°C limit			
		Packaging	
Index		individual	bulk
	ZTMN02-16	1 pcs	16 pcs

RADIATOR SETS

Description									
 1/2" straight thermostatic set Elements of the set: • thermostatic head • thermostatic valve without presetting • cut-off valve Technical parameters: • max. working temperature: 100°C • max. working pressure: 1.0 MPa (10 bar) • max. ambient temperature: 50°C • scale of adjustment: 0 - 5 • temperature control range: up to 28°C • valve connection diameter: 1/2"									
Packaging <table border="1"> <thead> <tr> <th>Index</th> <th>individual</th> <th>bulk</th> </tr> </thead> <tbody> <tr> <td>ZTM07</td> <td>1 pcs</td> <td>16 pcs</td> </tr> </tbody> </table>				Index	individual	bulk	ZTM07	1 pcs	16 pcs
Index	individual	bulk							
ZTM07	1 pcs	16 pcs							
 1/2" angle thermostatic set Elements of the set: • thermostatic head • thermostatic valve without presetting • cut-off valve Technical parameters: • max. working temperature: 100°C • max. working pressure: 1.0 MPa (10 bar) • max. ambient temperature: 50°C • scale of adjustment: 0 - 5 • temperature control range: up to 28°C • valve connection diameter: 1/2"									
Packaging <table border="1"> <thead> <tr> <th>Index</th> <th>individual</th> <th>bulk</th> </tr> </thead> <tbody> <tr> <td>ZTM08</td> <td>1 pcs</td> <td>16 pcs</td> </tr> </tbody> </table>				Index	individual	bulk	ZTM08	1 pcs	16 pcs
Index	individual	bulk							
ZTM08	1 pcs	16 pcs							
 1/2" straight thermostatic set Elements of the set: • thermostatic head • 1/2" straight thermostatic valve without presetting • 1/2" straight radiator cut-off valve Technical parameters: • max. working temperature: 100°C • max. working pressure: 1.0 MPa (10 bar) • valve connection diameter: 1/2" • head connection: M30 x 1.5 • max. ambient temperature: 50°C • scale of adjustment: 0 - 5 • adjustment range: up to 28°C									
Packaging <table border="1"> <thead> <tr> <th>Index</th> <th>individual</th> <th>bulk</th> </tr> </thead> <tbody> <tr> <td>ZTM20</td> <td>1 pcs</td> <td>40 pcs</td> </tr> </tbody> </table>				Index	individual	bulk	ZTM20	1 pcs	40 pcs
Index	individual	bulk							
ZTM20	1 pcs	40 pcs							
 1/2" angle thermostatic set Elements of the set: • thermostatic head • 1/2" thermostatic angle valve without presetting • 1/2" angle radiator cut-off valve Technical parameters: • max. working temperature: 100°C • max. working pressure: 1.0 MPa (10 bar) • valve connection diameter: 1/2" • head connection: M30 x 1.5 • max. ambient temperature: 50°C • scale of adjustment: 0-5 • temperature control range: up to 28°C									
Packaging <table border="1"> <thead> <tr> <th>Index</th> <th>individual</th> <th>bulk</th> </tr> </thead> <tbody> <tr> <td>ZTM21</td> <td>1 pcs</td> <td>40 pcs</td> </tr> </tbody> </table>				Index	individual	bulk	ZTM21	1 pcs	40 pcs
Index	individual	bulk							
ZTM21	1 pcs	40 pcs							



Description

1/2" straight radiator set

Elements of the set:

- ZG2Y - 1/2" straight radiator valve with gland
- ZP2Y - 1/2" straight radiator cut-off valve

Technical parameters:

- max. working temperature: 100°C
- max. working pressure: 1.0 MPa (10 bar)



Index

ZGB01

Packaging

individual

1 pcs

bulk

30 pcs

**1/2" angular radiator set**

Elements of the set:

- ZG5Y - 1/2" angle radiator valve with gland
- ZK2Y - 1/2" angle radiator cut-off valve

Technical parameters:

- max. working temperature: 100°C
- max. working pressure: 1.0 MPa (10 bar)



Index

ZGB02

Packaging

individual

1 pcs

bulk

30 pcs

**1/2" straight thermostatic valve set**

Elements of the set:

- 2-in-1 thermostatic valve
- cut-off valve

Technical parameters:

- max. working temperature: 100°C
- max. working pressure: 1.0 MPa (10 bar)
- max. ambient temperature: 50°C
- valve connection diameter: 1/2"

Characteristics:

- valve with 2-in-1 function:
valve equipped with ergonomic knob for manual adjustment
after removing the knob, the thermostatic head can be mounted with a
typical M30 x 1.5 thread
- easy to install; additional gasket on the thermostatic and shut-off valve
half union



Index

ZTB01

Packaging

individual

1 pcs

bulk

30 pcs

**1/2" angle thermostatic valve set**

Elements of the set:

- 2-in-1 thermostatic valve
- cut-off valve

Technical parameters:

- max. working temperature: 100°C
- max. working pressure: 1.0 MPa (10 bar)
- max. ambient temperature: 50°C
- valve connection diameter: 1/2"

Characteristics:

- valve with 2-in-1 function:
valve equipped with ergonomic knob for manual adjustment
after removing the knob, the thermostatic head can be mounted with a
typical M30x1.5 thread
- easy to install; additional gasket on the thermostatic and shut-off valve
half union



Index

ZTB02

Packaging

individual

1 pcs

bulk

30 pcs

RADIATOR SETS

Description		
		
Thermostatic set for bottom connected radiators, straight		
Elements of the set:		
<ul style="list-style-type: none"> • Thermostatic head with M30 x 1.5 connection (fits Heimeier thermostatic inserts) • universal connection valve straight for V-type radiators • connections 3/4" M x F3/4" F or 3/4" M x 1/2" M • reduction nipples included 		
Technical parameters:		
<ul style="list-style-type: none"> • max. working temperature: 100°C • max. working pressure: 1.0 MPa (10 bar) • max. ambient temperature: 50°C • scale of adjustment: 0 - 5 • temperature control range: up to 28°C • valve connection diameter: MT3/4" x MT3/4" or MT3/4" x MT1/2" 		
 Packaging		
Index  Packaging		
ZTV01 individual 1 pcs bulk 25 pcs		
		
Thermostatic set for bottom connected radiators, angle		
Elements of the set:		
<ul style="list-style-type: none"> • Thermostatic head with M30 x 1.5 connection (fits Heimeier thermostatic inserts) • universal angle connection valve for V-type radiators • connections 3/4" M x F3/4" F or 3/4" M x 1/2" M • reduction nipples included 		
Technical parameters:		
<ul style="list-style-type: none"> • max. working temperature: 100°C • max. working pressure: 1.0 MPa (10 bar) • max. ambient temperature: 50°C • scale of adjustment: 0 - 5 • temperature control range: up to 28°C 		
 Packaging		
Index  Packaging		
ZTV02 individual 1 pcs bulk 25 pcs		
		
Thermostatic set for bottom connected radiators, straight		
Elements of the set:		
<ul style="list-style-type: none"> • thermostatic head with M30 x 1.5 connection (fits Heimeier thermostatic inserts) • universal straight connection valve for V-type radiators • connections 3/4" M x F3/4" F or 3/4" M x 1/2" M 		
Technical parameters:		
<ul style="list-style-type: none"> • max. working temperature: 100°C • max. working pressure: 1.0 MPa (10 bar) • max. ambient temperature: 50°C • scale of adjustment: 0 - 5 • temperature control range: up to 28°C 		
 Packaging		
Index  Packaging		
ZTV07 individual 1 pcs bulk 16 pcs		
		
Thermostatic set for bottom connected radiators, angle		
Elements of the set		
<ul style="list-style-type: none"> • thermostatic head with M30 x 1.5 connection (fits Heimeier thermostatic inserts) • universal angle connection valve for V-type radiators • connections 3/4" M x F3/4" F or 3/4" M x 1/2" M 		
Technical parameters:		
<ul style="list-style-type: none"> • max. working temperature: 100°C • max. working pressure: 1.0 MPa (10 bar) • max. ambient temperature: 50°C • scale of adjustment: 0 - 5 • temperature control range: up to 28°C 		
 Packaging		
Index  Packaging		
ZTV08 individual 1 pcs bulk 25 pcs		

**Description****Thermostatic set for bottom connected radiators, straight**

Elements of the set:

- thermostatic head with M30x1,5 connection (suitable for Heimeier type thermostatic inserts)
- universal straight connection valve

Technical specifications:

- connections 3/4" M x F3/4" F or 3/4" M x 1/2" M
 - reduction nipples included
- conical sealing
- ball shut-off valves
- nominal pressure: 1,0 MPa (10 bar)
- maximum working temperature: 100°C
- maximum ambient temperature: 50°C
- adjustment scale: 0-5
- temperature adjustment range: 0-28°C
- antifreeze protection: - 6°C

**Packaging****Index****ZTV20**

individual

1 pcs

bulk

40 pcs

**Thermostatic set for bottom connected radiators, angle**

Elements of the set:

- thermostatic head with M30x1,5 connection (suitable for Heimeier type thermostatic inserts)
- universal angle connection valve

Technical specifications:

- connections 3/4" M x F3/4" F or 3/4" M x 1/2" M
 - reduction nipples included
- conical sealing
- ball shut-off valves
- nominal pressure: 1,0 MPa (10 bar)
- maximum working temperature: 100°C
- maximum ambient temperature: 50°C
- adjustment scale: 0-5
- temperature adjustment range: 0-28°C
- antifreeze protection: - 6°C

**Packaging****Index****ZTV21**

individual

1 pcs

bulk

40 pcs

RADIATOR SETS



pipe connector set:



Description

Decorative integrated angle thermostatic set, chrome

Elements of the set:

- GT31 thermostatic head
- integrated angle valve
- 15 mm copper pipe connectors
- 16x2 mm multilayer pipe connectors
- 3/4" x 1/2" radiator nipples

Thermostatic head:

- connection: M30 x 1.5
- max. ambient temperature: 50°C
- adjustment scale: * - 5
- adjustment range: up to 30°C
- anti-freeze protection: ~ 9°C

Technical parameters:

- max. working temperature: 100°C
- max. working pressure: 1 MPa (10 bar)



Packaging

Index

ZTD30CR

individual

1 pcs

bulk

20 pcs



pipe connector set:



Decorative integrated angle thermostatic set, white

Elements of the set:

- GT30 thermostatic head
- integrated angle valve
- 15 mm copper pipe connectors
- 16x2 mm multilayer pipe connectors
- 3/4" x 1/2" radiator nipples

Thermostatic head:

- connection: M30 x 1.5
- max. ambient temperature: 50°C
- adjustment scale: * - 5
- adjustment range: up to 30°C
- anti-freeze protection: ~ 9°C

Technical parameters:

- max. working temperature: 100°C
- max. working pressure: 1 MPa (10 bar)



Packaging

Index

ZTD30WH

individual

1 pcs

bulk

20 pcs



pipe connector set:



Decorative integrated angle thermostatic set, anthracite

Elements of the set:

- GT33 thermostatic head
- integrated angle valve
- 15 mm copper pipe connectors
- 16 x 2 mm multilayer pipe connectors
- 3/4" x 1/2" radiator nipples

Thermostatic head:

- connection: M30 x 1.5
- max. ambient temperature: 50°C
- adjustment scale: * - 5
- adjustment range: up to 30°C
- anti-freeze protection: ~ 9°C

Technical parameters:

- max. working temperature: 100°C
- max. working pressure: 1 MPa (10 bar)



Packaging

Index

ZTD30AT

individual

1 pcs

bulk

20 pcs



pipe connector set:



multilayer

copper

Description**Decorative integrated angle thermostatic set, black**

Elements of the set:

- GT34 thermostatic head
- integrated angle valve
- 15 mm copper pipe connectors
- 16x2 mm multilayer pipe connectors
- 3/4" x 1/2" radiator nipples

Thermostatic head:

- connection: M30 x 1.5
- max. ambient temperature: 50°C
- adjustment scale: * - 5
- adjustment range: up to 30°C
- anti-freeze protection: ~ 9°C

Technical parameters:

- max. working temperature: 100°C
- max. working pressure: 1 MPa (10 bar)

**Index****ZTD30BL****Packaging**

individual

1 pcs

bulk

20 pcs



pipe connector set:



multilayer

copper

Decorative axial thermostatic set, chrome

Elements of the set:

- GT31 thermostatic head
- 1/2" axial thermostatic valve
- 1/2" axial cut-off valve
- 15 mm copper pipe connectors
- 16x2 mm multilayer pipe connectors

Thermostatic head:

- connection: M30 x 1.5
- max. ambient temperature: 50°C
- adjustment scale: * - 5
- adjustment range: up to 30°C
- anti-freeze protection: ~ 9°C

Technical parameters:

- max. working temperature: 100°C
- max. working pressure: 1 MPa (10 bar)

**Index****ZTO30CR****Packaging**

individual

1 pcs

bulk

20 pcs



pipe connector set:



multilayer

copper

Decorative axial thermostatic set, white

Elements of the set:

- GT30 thermostatic head
- 1/2" axial thermostatic valve
- 1/2" axial cut-off valve
- 15 mm copper pipe connectors
- 16x2 mm multilayer pipe connectors

Thermostatic head:

- connection: M30 x 1.5
- max. ambient temperature: 50°C
- adjustment scale: * - 5
- adjustment range: up to 30°C
- anti-freeze protection: ~ 9°C

Technical parameters:

- max. working temperature: 100°C
- max. working pressure: 1 MPa (10 bar)

**Index****ZTO30WH****Packaging**

individual

1 pcs

bulk

20 pcs

RADIATOR SETS



pipe connector set:



multilayer

copper

Description

Decorative axial thermostatic set, anthracite

Elements of the set:

- GT33 thermostatic head
- 1/2" axial thermostatic valve
- 1/2" axial cut-off valve
- 15 mm copper pipe connectors
- 16 x 2 mm multilayer pipe connectors

Thermostatic head:

- connection: M30 x 1.5
- max. ambient temperature: 50°C
- adjustment scale: * - 5
- adjustment range: up to 30°C
- anti-freeze protection: ~ 9°C

Technical parameters:

- max. working temperature: 100°C
- max. working pressure: 1 MPa (10 bar)



Packaging

Index

ZTO30AT

individual

1 pcs

bulk

20 pcs



pipe connector set:



multilayer

copper

Decorative axial thermostatic set, black

Elements of the set:

- GT34 thermostatic head
- 1/2" axial thermostatic valve
- 1/2" axial cut-off valve
- 15 mm copper pipe connectors
- 16 x 2 mm multilayer pipe connectors

Thermostatic head:

- connection: M30 x 1.5
- max. ambient temperature: 50°C
- adjustment scale: * - 5
- adjustment range: up to 30°C
- anti-freeze protection: ~ 9°C

Technical parameters:

- max. working temperature: 100°C
- max. working pressure: 1 MPa (10 bar)



Packaging

Index

ZTO30BL

individual

1 pcs

bulk

20 pcs

Description			
		Packaging	
Index		individual	bulk
	Decorative straight thermostatic set, chrome		
	Elements of the set:		
	• GT31 thermostatic head		
	• 1/2" straight thermostatic valve		
	• 1/2" straight cut-off valve		
	Thermostatic head:		
	• connection: M30 x 1.5		
	• max. ambient temperature: 50°C		
	• adjustment scale: * - 5		
	• adjustment range: up to 30°C		
	• anti-freeze protection: ~ 9°C		
	Technical parameters:		
	• max. working temperature: 100°C		
	• max. working pressure: 1 MPa (10 bar)		
	Packaging		
ZTM30CR		1 pcs	20 pcs
	Decorative straight thermostatic set, white		
	Elements of the set:		
	• GT30 thermostatic head		
	• 1/2" straight thermostatic valve		
	• 1/2" straight cut-off valve		
	Thermostatic head:		
	• connection: M30 x 1.5		
	• max. ambient temperature: 50°C		
	• adjustment scale: * - 5		
	• adjustment range: up to 30°C		
	• anti-freeze protection: ~ 9°C		
	Technical parameters:		
	• max. working temperature: 100°C		
	• max. working pressure: 1 MPa (10 bar)		
	Packaging		
ZTM30WH		1 pcs	20 pcs
	Decorative straight thermostatic set, anthracite		
	Elements of the set:		
	• GT33 thermostatic head		
	• 1/2" straight thermostatic valve		
	• 1/2" straight cut-off valve		
	Thermostatic head:		
	• connection: M30 x 1.5		
	• max. ambient temperature: 50°C		
	• adjustment scale: * - 5		
	• adjustment range: up to 30°C		
	• anti-freeze protection: ~ 9°C		
	Technical parameters:		
	• max. working temperature: 100°C		
	• max. working pressure: 1 MPa (10 bar)		
	Packaging		
ZTM30AT		1 pcs	20 pcs
	Decorative straight thermostatic set, black		
	Elements of the set:		
	• GT34 thermostatic head		
	• 1/2" straight thermostatic valve		
	• 1/2" straight cut-off valve		
	Thermostatic head:		
	• connection: M30 x 1.5		
	• max. ambient temperature: 50°C		
	• adjustment scale: * - 5		
	• adjustment range: up to 30°C		
	• anti-freeze protection: ~ 9°C		
	Technical parameters:		
	• max. working temperature: 100°C		
	• max. working pressure: 1 MPa (10 bar)		
	Packaging		
ZTM30BL		1 pcs	20 pcs

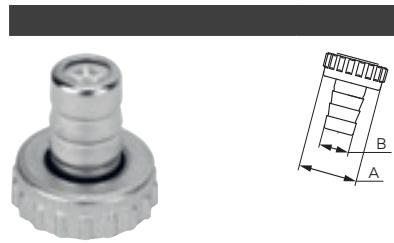
RADIATOR SETS

Description											
											
Decorative angle thermostatic set, chrome Elements of the set: • GT31 thermostatic head • 1/2" angle thermostatic valve • 1/2" angle cut-off valve Thermostatic head: • connection: M30 x 1.5 • max. ambient temperature: 50°C • adjustment scale: * - 5 • adjustment range: up to 30°C • anti-freeze protection: ~ 9°C Technical parameters: • max. working temperature: 100°C • max. working pressure: 1 MPa (10 bar)											
 ZTM31CR <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Packaging</th> </tr> <tr> <th>Index</th> <th>individual</th> <th>bulk</th> </tr> </thead> <tbody> <tr> <td>ZTM31CR</td> <td>1 pcs</td> <td>20 pcs</td> </tr> </tbody> </table>				Packaging		Index	individual	bulk	ZTM31CR	1 pcs	20 pcs
Packaging											
Index	individual	bulk									
ZTM31CR	1 pcs	20 pcs									
											
Decorative angle thermostatic set, white Elements of the set: • GT30 thermostatic head • 1/2" angle thermostatic valve • 1/2" angle cut-off valve Thermostatic head: • connection: M30 x 1.5v • max. ambient temperature: 50°C • adjustment scale: * - 5 • adjustment range: up to 30°C • anti-freeze protection: ~ 9°C Technical parameters: • max. working temperature: 100°C • max. working pressure: 1 MPa (10 bar)											
 ZTM31WH <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Packaging</th> </tr> <tr> <th>Index</th> <th>individual</th> <th>bulk</th> </tr> </thead> <tbody> <tr> <td>ZTM31WH</td> <td>1 pcs</td> <td>20 pcs</td> </tr> </tbody> </table>				Packaging		Index	individual	bulk	ZTM31WH	1 pcs	20 pcs
Packaging											
Index	individual	bulk									
ZTM31WH	1 pcs	20 pcs									
											
Decorative angle thermostatic set, anthracite Elements of the set: • GT33 thermostatic head • 1/2" angle thermostatic valve • 1/2" angle cut-off valve Thermostatic head: • connection: M30 x 1.5 • max. ambient temperature: 50°C • adjustment scale: * - 5 • adjustment range: do 30°C • anti-freeze protection: ~ 9°C Technical parameters: • max. working temperature: 100°C • max. working pressure: 1 MPa (10 bar)											
 ZTM31AT <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Packaging</th> </tr> <tr> <th>Index</th> <th>individual</th> <th>bulk</th> </tr> </thead> <tbody> <tr> <td>ZTM31AT</td> <td>1 pcs</td> <td>20 pcs</td> </tr> </tbody> </table>				Packaging		Index	individual	bulk	ZTM31AT	1 pcs	20 pcs
Packaging											
Index	individual	bulk									
ZTM31AT	1 pcs	20 pcs									
											
Decorative angle thermostatic set, black Elements of the set: • GT34 thermostatic head • 1/2" angle thermostatic valve • 1/2" angle cut-off valve Thermostatic head: • connection: M30 x 1.5 • max. ambient temperature: 50°C • adjustment scale: * - 5 • adjustment range: do 30°C • anti-freeze protection: ~ 9°C Technical parameters: • max. working temperature: 100°C • max. working pressure: 1 MPa (10 bar)											
 ZTM31BL <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Packaging</th> </tr> <tr> <th>Index</th> <th>individual</th> <th>bulk</th> </tr> </thead> <tbody> <tr> <td>ZTM31BL</td> <td>1 pcs</td> <td>20 pcs</td> </tr> </tbody> </table>				Packaging		Index	individual	bulk	ZTM31BL	1 pcs	20 pcs
Packaging											
Index	individual	bulk									
ZTM31BL	1 pcs	20 pcs									

Description					
					
 Decorative straight radiator set, chrome					
Elements of the set:	<ul style="list-style-type: none"> • 1/2" straight control valve • 1/2" straight shut-off valve 				
Technical parameters:	<ul style="list-style-type: none"> • max. working temperature: 100°C • max. working pressure: 1 MPa (10 bar) 				
 Packaging					
Index	individual	bulk			
ZGB30CR	1 pcs	30 pcs			
					
 Decorative straight radiator set, white					
Elements of the set:	<ul style="list-style-type: none"> • 1/2" straight control valve • 1/2" straight shut-off valve 				
Technical parameters:	<ul style="list-style-type: none"> • max. working temperature: 100°C • max. working pressure: 1 MPa (10 bar) 				
 Packaging					
Index	individual	bulk			
ZGB30WH	1 pcs	30 pcs			
					
 Decorative straight radiator set, anthracite					
Elements of the set:	<ul style="list-style-type: none"> • 1/2" straight control valve • 1/2" straight shut-off valve 				
Technical parameters:	<ul style="list-style-type: none"> • max. working temperature: 100°C • max. working pressure: 1 MPa (10 bar) 				
 Packaging					
Index	individual	bulk			
ZGB30AT	1 pcs	30 pcs			
					
 Decorative straight radiator set, black					
Elements of the set:	<ul style="list-style-type: none"> • 1/2" straight control valve • 1/2" straight shut-off valve 				
Technical parameters:	<ul style="list-style-type: none"> • max. working temperature: 100°C • max. working pressure: 1 MPa (10 bar) 				
 Packaging					
Index	individual	bulk			
ZGB30BL	1 pcs	30 pcs			

RADIATOR SETS

Description									
 Decorative angle radiator set, chrome Elements of the set: • 1/2" angle control valve • 1/2" angle cut-off valve Technical parameters: • max. working temperature: 100°C • max. working pressure: 1 MPa (10 bar)									
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Index	individual	bulk							
ZGB31CR	1 pcs	30 pcs							
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Index	individual	bulk							
ZGB31WH	1 pcs	30 pcs							
	Decorative angle radiator set, anthracite Elements of the set: • 1/2" angle control valve • 1/2" angle cut-off valve Technical parameters: • max. working temperature: 100°C • max. working pressure: 1 MPa (10 bar)		Packaging <table border="1"> <thead> <tr> <th>Index</th> <th>individual</th> <th>bulk</th> </tr> </thead> <tbody> <tr> <td>ZGB31AT</td> <td>1 pcs</td> <td>30 pcs</td> </tr> </tbody> </table>	Index	individual	bulk	ZGB31AT	1 pcs	30 pcs
Index	individual	bulk							
ZGB31AT	1 pcs	30 pcs							
	Decorative angle radiator set, black Elements of the set: • 1/2" angle control valve • 1/2" angle cut-off valve Technical parameters: • max. working temperature: 100°C • max. working pressure: 1 MPa (10 bar)		Packaging <table border="1"> <thead> <tr> <th>Index</th> <th>individual</th> <th>bulk</th> </tr> </thead> <tbody> <tr> <td>ZGB31BL</td> <td>1 pcs</td> <td>30 pcs</td> </tr> </tbody> </table>	Index	individual	bulk	ZGB31BL	1 pcs	30 pcs
Index	individual	bulk							
ZGB31BL	1 pcs	30 pcs							

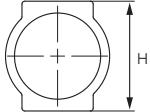
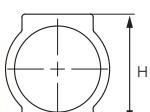
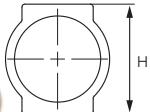
Description						
				Packaging		
A	B [mm]	for valve	Index	individual	bulk	Retail (bags) Index
G3/4	15	1/2"	K44	50 pcs	450 pcs	K44W
G1	20	3/4"	K45	50 pcs	450 pcs	K45W
G1 1/4	28	1"	K46	25 pcs	-	K46W
				EAN		
				Packaging	Retail (bags)	
				individual	bulk	Index
				Ball valve handle		
Packaging						
for valve				individual	bulk	
3/8"				RKP10	1 pcs	-
1/2"				RKP1	1 pcs	-
3/4"				RKP2	1 pcs	-
1"				RKP3	1 pcs	-
1 1/4"				RKP4	1 pcs	-
1 1/2"				RKP5	1 pcs	-
2"				RKP6	1 pcs	-
2 1/2"				RKP7	1 pcs	-
3"				RKP8	1 pcs	-
4"				RKP9	1 pcs	-
				Flange – finish		
				• galvanized steel		
Packaging						
model				individual	bulk	
SV35				CFF095TRF008Z	1 pcs	-
SV50				CFF095TRF007Z	1 pcs	-
SV80				CFF145TRF008Z	1 pcs	-
SV100				CFF145TRF007Z	1 pcs	-
SV150				CFF260TRF001V	1 pcs	-

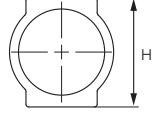
SPARE PARTS

Description			
	Membrane fixing flange • model: 100 ÷ 500		
Packaging			
Index	individual	bulk	-
TIR001Z	1 pcs		
	Membrane fixing flange • model: 750 ÷ 5000		
Packaging			
Index	individual	bulk	-
TIR003Z	1 pcs		
	Air precharge valve for pressure tanks		
Packaging			
Index	individual	bulk	-
VAL003	1 pcs		

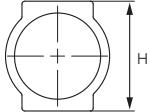
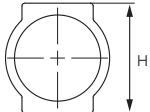
Description				
for model	Ø [mm]	Index	Packaging	
			individual	bulk
R5, R8	45	ME008R	1 pcs	-
R12	45	ME012R	1 pcs	-
R18	45	ME018R	1 pcs	-
R24	45	ME024R	1 pcs	-
R35	80	ME035R	1 pcs	-
R50, RV50	80	ME050R	1 pcs	-
RV60, RV80	80	ME080R	1 pcs	-
RV100	80	ME100R	1 pcs	-
RV150	80	ME150R	1 pcs	-
RV200, RV250, RV300	80	ME300R	1 pcs	-
RV400, RV500	150	ME500R	1 pcs	-
RV600	150	ME600R	1 pcs	-
S8	45	ME008S	1 pcs	-
S12	45	ME012S	1 pcs	-
S18	45	ME018S	1 pcs	-
S24	80	ME024S	1 pcs	-
SV35	80	ME035S	1 pcs	-
SV50	80	ME050S	1 pcs	-
SV80	80	ME080S	1 pcs	-
SV100	80	ME100S	1 pcs	-
SV150	80	ME150S	1 pcs	-
SV200	80	ME200S	1 pcs	-
SV300	80	ME300S	1 pcs	-
M2	45	ME002A	1 pcs	-
A5, A8	45	ME008A	1 pcs	-
A12	45	ME012A	1 pcs	-
A18	45	ME018A	1 pcs	-
A24	80	ME024A	1 pcs	-
A35	80	ME035A	1 pcs	-
AV50	80	ME050A	1 pcs	-
AV80	80	ME080A	1 pcs	-
AV100	80	ME100A	1 pcs	-
AV150	80	ME150A	1 pcs	-
AV200	150	ME200A	1 pcs	-
AV300	150	ME300A	1 pcs	-
  Ball valve butterfly				
Index	Packaging		individual	bulk
KMS1, KSS1, KMS11, KMS2, KSS2, KMS21, KM1, KM2, KM21	MKM2	1 pcs	-	
KMS3, KSS3, MKS31, KM3, KM31	MKM3	1 pcs	-	
KS1, KM11	MKMK51	1 pcs	-	
KS2	MKMK52	1 pcs	-	
KS3	MKMK53	1 pcs	-	

SPARE PARTS

Description			
Packaging			
		1/2" balancing and measuring valve (flowmeter) + 1/2"x3/4" nipple	
H[mm]	Index	individual	bulk
39	RKPP-SET39	1 pcs	-
42	RKPP-SET42	1 pcs	-
		1/2" balancing and measuring valve (flowmeter) + 1/2"x1/2" nipple + compression fitting for 16x2 mm multilayer pipes	
		• profile: 39 mm	
	Index	individual	bulk
	RKPP-SET39P12	1 pcs	-
		Thermostatic insert M30x1.5 + 1/2" x 3/4" nipple	
H[mm]	Index	individual	bulk
39	RKPT-SET39	1 pcs	-
42	RKPT-SET42	1 pcs	-
		Cut-off valve + 1/2" x 3/4" nipple	
H[mm]	Index	individual	bulk
39	RKPO-SET39	1 pcs	-
42	RKPO-SET42	1 pcs	-

Description			
		Packaging	
Index		individual	bulk
RKPP_T		1 pcs	100 pcs
1/2" balancing and measuring valve (flowmeter)			
<ul style="list-style-type: none"> • max. working pressure: 0.6 MPa (6 bar) • max. working temperature: 70°C • Kvs = 1.1 m³/h • regulation range: 0 - 5 l/min • measurement accuracy: ± 10% final value 			
		Packaging	
RKPP_TP		individual	bulk
1/2" balancing and measuring valve (flowmeter)			
<ul style="list-style-type: none"> • maximum working pressure: 0.6 MPa (6 bar) • maximum working temperature: 60°C • Kvs = 1.1 m³/h • regulation range: 0 - 5 l/min • measurement accuracy: ± 10% final value 			
		Packaging	
N10POR-C7		individual	bulk
1/2" x 3/4" nipple for RKPP_T flow meters			
			
N10POR		1 pcs	-
		Packaging	
N10PORT-C7NEW		individual	bulk
1/2" x 1/2" nipple for RKPP_TP flowmeters			
<ul style="list-style-type: none"> • profile: 39 mm • compression fitting for 16x2 mm multilayer fittings included 			
		Packaging	
1/2" x 1/2" nipple for RKPP_TP flowmeters		individual	bulk
		1 pcs	-

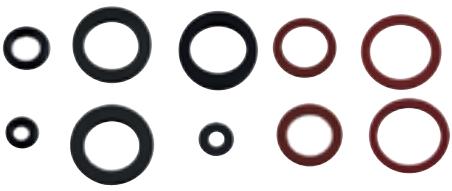
SPARE PARTS

Description			
  <p>1/2" cut-off valve for the manifold</p>			
Packaging			
H[mm]	Index	individual	bulk
39	RKPO1-C7	1 pcs	-
42	RKPO1	1 pcs	-
 <p>Thermostatic insert knob M30 x 1.5</p>			
Packaging			
Index	individual	bulk	
RKPT2	1 pcs	-	
  <p>Thermostatic insert M30 x 1.5</p>			
Packaging			
H[mm]	Index	individual	bulk
39	RKPT1-C7	1 pcs	-
42	RKPT1	1 pcs	-
 <p>Nipple for thermostatic insert or cut-off valve</p> <ul style="list-style-type: none"> • compression fitting for 16x2 mm multilayer fittings included 			
			NEW
			Availability Q1 2023
Packaging			
1/2" x 1/2"	Index	individual	bulk
	N10ZORZL-C7NEW	1 pcs	-

Description		
		
Packaging		
Index	individual	bulk
1/2" x 3/4"	N10ZOR	1 pcs
		
Packaging		
Index	individual	bulk
ZSR1	1 pcs	50 pcs
		
Packaging		
Index	individual	bulk
O25ZSR-C7NEW	1 pcs	-
		
Packaging		
Index	individual	bulk
KOR5ZOR	1 pcs	-
		
Packaging		
Index	individual	bulk
LC10Y	1 pcs	40 pcs

SPARE PARTS

Description			
Packaging			
	Pipe rosette • white		
Dimensions	Index	individual	bulk
15 mm	RGB15	5 pcs	100 pcs
16 mm	RGB16	5 pcs	100 pcs
18 mm	RGB18	5 pcs	100 pcs
20 mm	RGB20	5 pcs	100 pcs
22 mm	RGB22	5 pcs	100 pcs
25 mm	RGB25	5 pcs	100 pcs
28 mm	RGB28	5 pcs	100 pcs
	Double pipe rosette • white		
Dimensions	Index	individual	bulk
15 mm	RRPB15	1 pcs	20 pcs
16 mm	RRPB16	1 pcs	20 pcs
18 mm	RRPB18	1 pcs	20 pcs
20 mm	RRPB20	1 pcs	20 pcs
22 mm	RRPB22	1 pcs	20 pcs
28 mm	RRPB28	1 pcs	20 pcs
	Double pipe rosette • chrome		
Dimensions	Index	individual	bulk
18 mm	RGPC18	1 pcs	20 pcs
22 mm	RGPC22	1 pcs	20 pcs
	Pipe rosette • chrome		
Dimensions	Index	individual	bulk
15 mm	RRPC15	2 pcs	40 pcs
16 mm	RRPC16	2 pcs	40 pcs
18 mm	RRPC18	2 pcs	40 pcs
20 mm	RRPC20	2 pcs	40 pcs
22 mm	RRPC22	2 pcs	40 pcs
25 mm	RRPC25	2 pcs	40 pcs
28 mm	RRPC28	2 pcs	40 pcs

Description			
			
Packaging			
Dimensions	Index	individual	bulk
3/4"	UWOG	1 set	20 set
			
Packaging			
Dimensions	Index	individual	bulk
3/4"	GG34EKO	4 pcs	80 pcs
			
Packaging			
Dimensions	Index	individual	bulk
1"	GG4W	4 pcs	-
			
Packaging			
Dimensions	Index	individual	bulk
5/4"	GG54EKO	4 pcs	80 pcs
			
Packaging			
Dimensions	Index	individual	bulk
1/2"	USDZ12	2 pcs	800 pcs
3/4"	USDZ34	2 pcs	800 pcs
1"	USDZ1	2 pcs	800 pcs

SPARE PARTS

Description			
			
Dimensions			
1"	Index	individual	bulk
	USDZ1G	2 pcs	800 pcs
Watermeter fiber gasket			
			
Dimensions			
1"	Index	individual	bulk
	USW1	4 pcs	800 pcs
3/4"	USW34	4 pcs	800 pcs
EPDM rubber washer for 6/4" circulation pump			
			
Dimensions			
44x32x3 mm	Index	individual	bulk
	GG10	1 pcs	-
Teflon tape			
			
Dimensions			
12 x 10 x 1,205 mm	Index	individual	bulk
	T01	1 pcs	1000 pcs
12 x 10 x 0,1 mm	T04	1 pcs	1000 pcs
19 x 15 x 0,2 mm	T05		

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Do you have any questions?

Do you need technical support, product information before buying or are you looking for a spare part? Please contact us! Our advisors will provide comprehensive answers to your questions.



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