

FERRO®



FERRO VALVES

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 BALTICS UAB Latvia, Lithuania, Estonia
- FERRO ADRIATICA Croatia, North Macedonia, Bosnia and Herzegovina, Montenegro
- Termet S.A. Poland
- Tester Sp. z o.o. Poland

Pictograms and function markings

To increase readability and facilitate the use of product information, their main features and functions are presented in the form of icons.



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



CW617N brass

MEDIA VALVES



Water



Glycol



Compressed air

PIPING



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.



FERRO VALVES

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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 headquarters in Skawina



Production plant and logistics centre in Znojmo (Czech Republic)



An international vision, local roots

Ferro Group's activities on the European market are performed by local distribution companies. 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.

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
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- **Termet S.A.** Poland
- **Tester Sp. z o.o.** Poland

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.

The global brand

FERRO®
GROUP

Group brands CZ/SK

novaservis
FERRO GROUP

Product brands belonging to the FERRO Group

FERRO®

NOBLESS

METALIA—

TITANIA

DESIGN

termet
tester

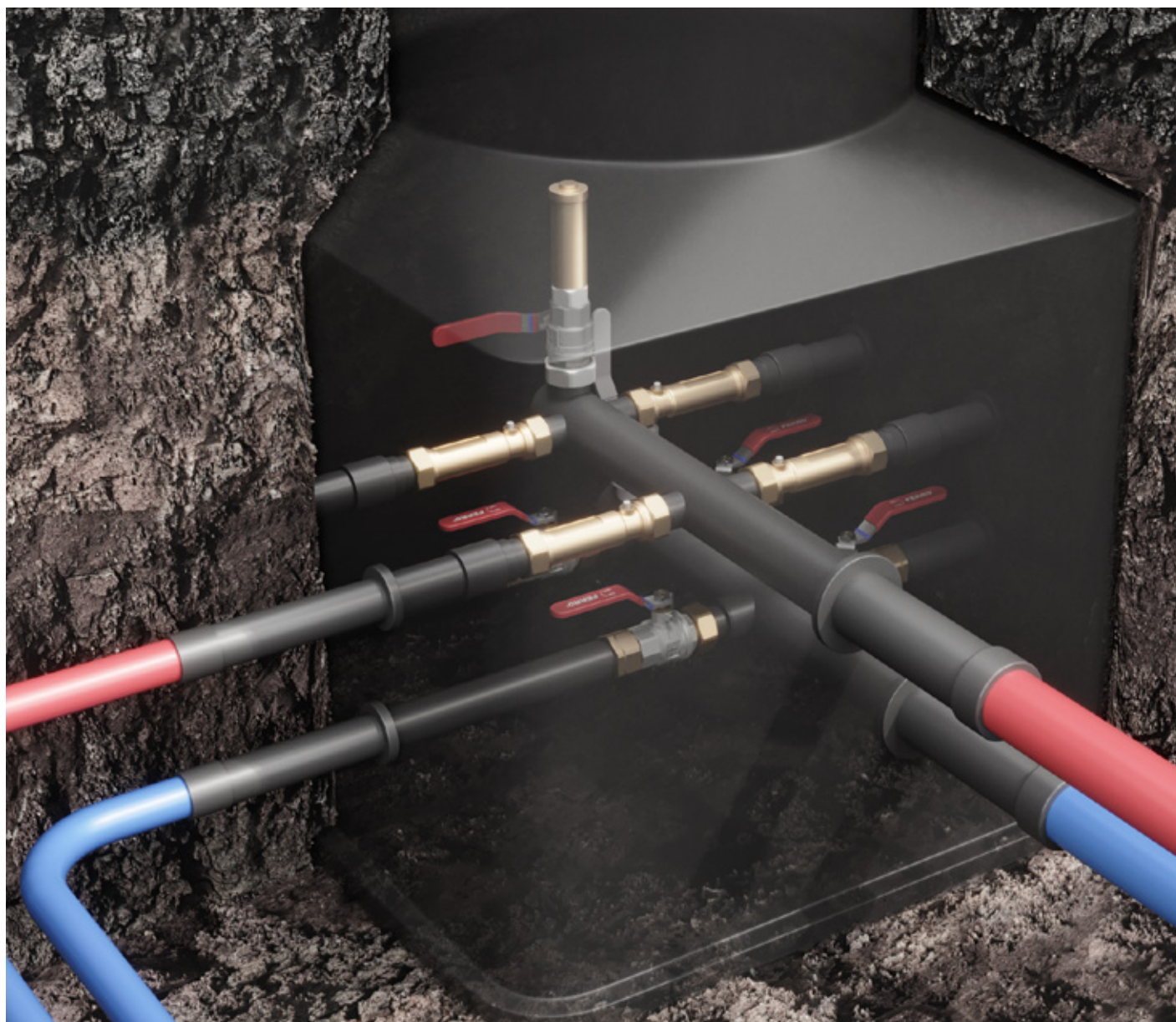
Proven in action



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.

RELIABLE TECHNOLOGY AND
EUROPEAN STANDARDS

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.



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

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 at 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 the Polish PN and European PN-EN series standards and the procedures related to the Quality Management System.



Production process

FERRO production is carried out in several modern factories in 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). Boiler production, on the other hand, takes place at the Polish factory in Świebodzice. The production process of new Ferro valves takes place in one of the most modern factories in the world. The whole process is subject to quality control and research at every stage. Before leaving the factories, all the products undergo a meticulous quality control, which ensures that our clients receive a product that is tested, reliable and guarantees many years of comfortable operation.



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.

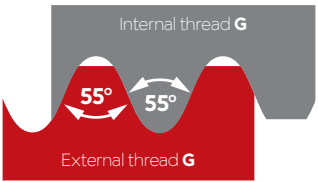
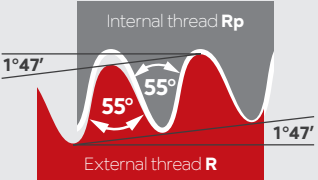

WE WORK WITH
EXTRAORDINARY PEOPLE
BECAUSE IT IS THANKS TO
THEM THAT WE ACHIEVE
EXTRAORDINARY RESULTS.


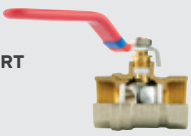




PROFESSIONAL SEGMENT

We understand that only close cooperation with installation companies, close contacts with people who choose our products in their work will allow us to constantly improve and develop them. That is why we have created a dedicated team to provide professional advice and service to installers every day.

Valve characteristics

Thread	Sketch	Description	According to standard	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	

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

Hydraulic fittings

VALVES



BALL VALVES - F-POWER
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BALL VALVES - F-COMFORT
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BALL VALVES - HERKULES
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BALL VALVES - OTHER
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ANGLE VALVES
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NEW

F-Power valves are the newest group of valves offered by FERRO. They are designed to work in potable water and central heating systems (including glycol solutions in concentrations of up to 50%), and in compressed air installations.

Safety and ecology
F-Power valves are made of CW617N-4MS brass meeting the highest European standards; the reduction of lead and nickel makes the product installed in drinking water systems safe for health.

Longevity confirmed by a manufacturer's warranty is an element of increasing value for users. That is why we offer a 10-year warranty period on new valves, as well as warranty and post-warranty service.

Media



Water



Compressed air



Glycol up 50%

Materials



CW617N-4MS brass
the latest hygienic standard



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

Warranty



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

Tests and certificates

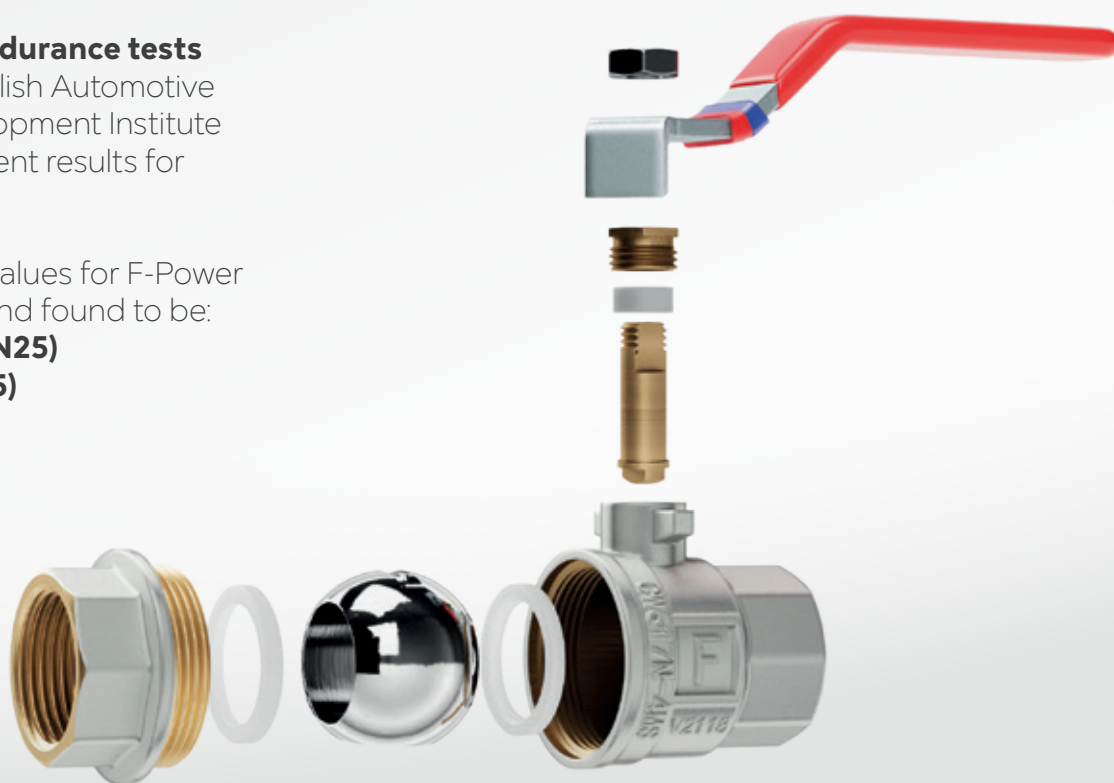
Positive results of endurance tests

performed by Eurofins, the Finnish research institute, confirm that our valves can **withstand temperatures of -30°C** and also perform well in temperatures up to 120°C.

All **high pressure endurance tests** carried out at the Polish Automotive Research and Development Institute BOSMAL with excellent results for F-POWER

The burst pressure values for F-Power valves were tested and found to be:

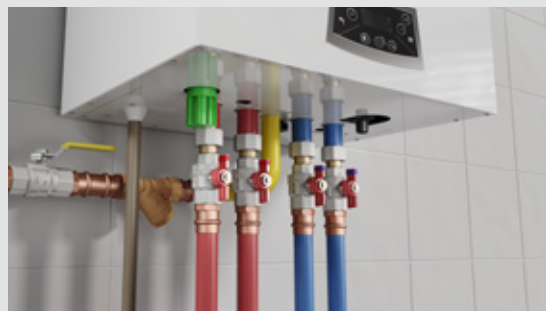
**from 130 bar (for DN25)
to 220 bar (for DN15)**



The valves have received a:

- Certificate of the National Institute of Hygiene
- National Technical Assessment issued by the Building Research Institute in Warsaw

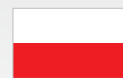
Tested for strength and hydraulic tightness at operating temperature limits - the valves have successfully passed the 45 bar pressure test at a temperature of 120°C.



Eurofins Expert Services



Oil and Gas Institute
Building Research Institute
National Institute of Public
Health NIH - National Research
Institute

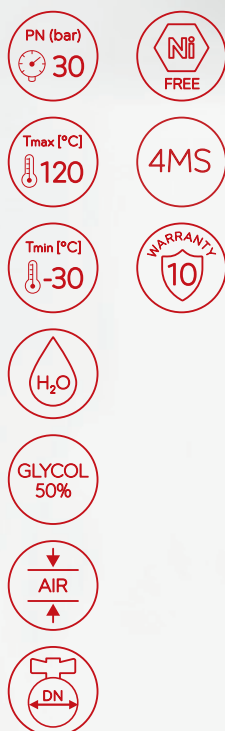
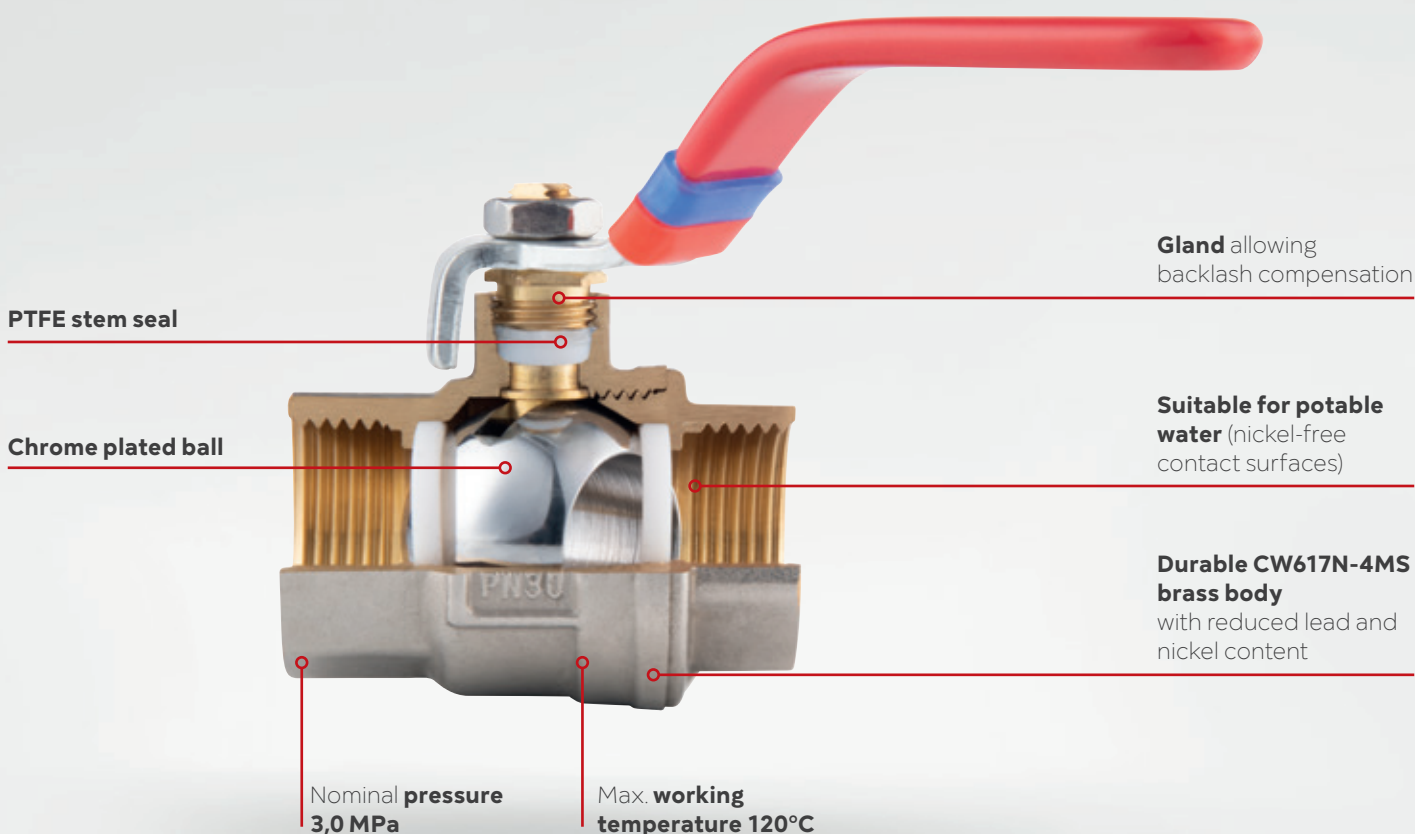


Automotive Research and
Development Institute BOSMAL

Engineering Test Institute
Public Health Institute



F-Power - ball valves



Advantages


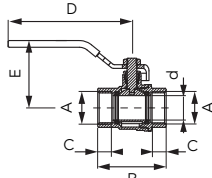


- warranty: 10 years
- valve bore without any constriction affecting the flow, full port according to standard
- valves are adapted to potable water - surface, which may have contact with potable water (inside the valve and connection threads) is not nickel plated
- solid metal handle
- the gland on 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


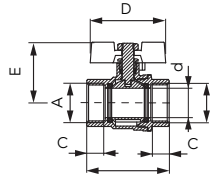


Operating parameters and scope of application:


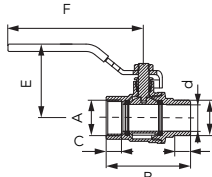


- nominal pressure: 3.0 MPa (30 bar)
- nominal working temperature: min -30°C, max. 120°C
- working media: water (water supply systems and central heating), max. 50% glycol solution in water, compressed air
- ball valves have received a National Technical Assessment Certificate issued by the Building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


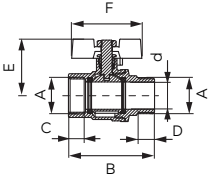










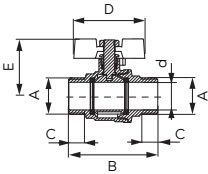










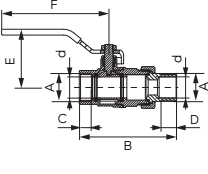









- valves are made in ABT (Advanced Body Technology) technology, combining advanced design and material solutions
- body material: CW617N-4MS brass - the newest hygiene standard
- ball finish: chrome plated, polished
- ball sealing: PTFE
- stem sealing: PTFE
- stable and safe seating of the stem due to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


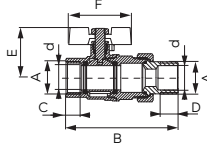
Description										NEW	
						F-Power ball valve <ul style="list-style-type: none">• female-female• full bore• with gland• handle: metal lever• body material: brass• ball material: brass (DN10 - DN50), stainless steel (DN65 - DN100)• material of ball and stem seals: PTFE• nominal pressure DN10 - DN50: 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]	Kvs [m³/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 <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 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]	Kvs [m³/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 <ul style="list-style-type: none">• 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	
DN	A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	Kvs [m³/h]	Index	individual	bulk
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									
<div>   <div>       </div> </div>									
F-Power ball valve <div> • 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 </div>									
<div>  </div>									
Packaging									
DN	A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	K _{vs} [m³/h]	Index
10	G3/8	10	9	10,5	53,5	34	51,3	4,33	KFPM101
15	G1/2	15	10,5	11	58,5	37,9	51,3	7,29	KFPM11
20	G3/4	20	11	11,5	63	41,3	51,3	14,80	KFPM21
25	G1	25	13	13,5	75,5	47,4	65	23,11	KFPM31
32	G1 1/4	32	14	18,5	93	63,7	88	42,58	KFPM41
<div>   </div>									
<div>   <div>       </div> </div>									
F-Power ball valve <div> • 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 </div>									
<div>  </div>									
Packaging									
DN	A	d [mm]	C [mm]	B [mm]	E [mm]	D [mm]	K _{vs} [m³/h]	Index	
15	G1/2	15	11	59,5	37,9	51,3	6,94	KFPN1	
20	G3/4	20	11,5	64,5	41,3	51,3	15,71	KFPN2	
25	G1	25	13,5	77	47,4	65	22,31	KFPN3	
<div>   </div>									
<div>   <div>       </div> </div>									
F-Power ball valve <div> • 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 </div>									
<div>  </div>									
Packaging									
DN	A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	K _{vs} [m³/h]	Index
15	G1/2	15	10,5	12,5	80,8	48,5	96	7,29	KFPS11
20	G3/4	20	11	12,5	93	53,8	101,5	14,80	KFPS21
25	G1	25	13	16,5	108	64,6	116,5	22,43	KFPS31
32	G1 1/4	32	14	16,5	124,6	70,5	116,5	41,10	KFPS41
<div>   </div>									





F-Power ball valve


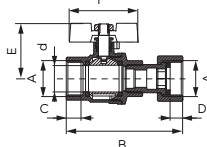
- female-male with union
- full bore
- with gland
- handle: butterfly
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure 30 bar (PN30)
- maximum working temperature: 120°C
- minimum working temperature: -30°C







NEW



Packaging

DN A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	K _{vs} [m³/h]	Index	individual	bulk
15 G1/2	15	12,5	12	79,5	37,9	51,3	7,29	KFPS1	10 pcs	100 pcs
20 G3/4	20	14,5	12,5	92,1	41,3	51,3	13,55	KFPS2	12 pcs	48 pcs
25 G1	25	16,5	14,5	108	47,4	65	22,43	KFPS3	6 pcs	30 pcs
32 G1 1/4	32	18,5	15,5	124,6	63,7	88	40,98	KFPS4	4 pcs	16 pcs





F-Power ball valve


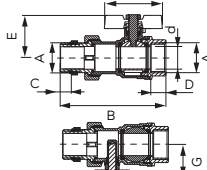
- female-female with half-union
- with gland
- handle: butterfly
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure 16 bar (PN16)
- maximum working temperature: 120°C







NEW



Packaging

DN A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	K _{vs} [m³/h]	Index	individual	bulk
15 G1/2	15	12,5	11	70	37,9	51,3	4,21	KFPM1SG	10 pcs	100 pcs
20 G3/4	20	15	11	74,5	41,3	51,3	8,65	KFPM2SG	6 pcs	60 pcs





F-Power ball valve with thermometer


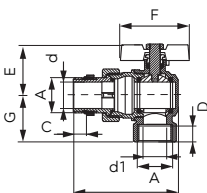







- female-male with union
- additional nut with a seal on the mounting thread
- with gland
- handle: butterfly
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure 30 bar (PN30)
- maximum working temperature: 120°C


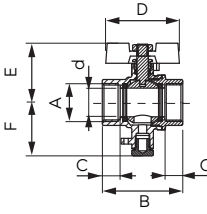







NEW


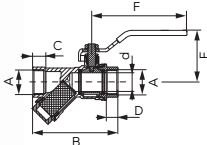










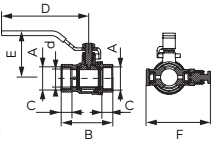



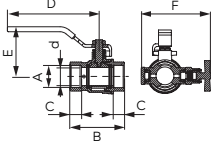



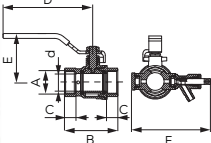


Packaging

DN A	d [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	K _{vs} [m³/h]	Index	individual	bulk
25 G1 25	118,5	12,5	17,5	47,6	65	36,6	19,01		KFPS3T	4 pcs	24 pcs

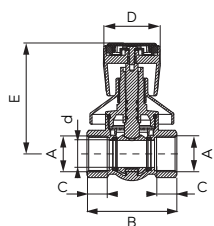
											Description			
												     	F-Power angle ball valve <ul style="list-style-type: none">• female-male with union• additional nut with a seal on the mounting thread• with gland• handle: butterfly• body and ball material: brass• material of ball and stem seals: PTFE• nominal pressure 30 bar (PN30)• maximum working temperature: 120°C	NEW
											Packaging			
DN	A	d [mm]	d1 [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	Kvs [m³/h]	Index	individual	bulk	
25	G1	25	22	99	12,5	16,5	47,6	65	44	10,93	KFPS3A	2 pcs	20 pcs	

												     	F-Power ball valve with M10x1 connection for temperature sensor <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	NEW
											Packaging			
DN	A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	Kvs [m³/h]	Index	individual	bulk			
15	G1/2	15	12	50,5	38	51,3	37,2	7,17	KFPMT1	12 pcs	120 pcs			
20	G3/4	20	12,5	56,1	41,1	51,3	37,2	15,37	KFPMT2	12 pcs	60 pcs			

												     	F-Power ball valve with filter <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• materiał wkładu filtra: stainless steel• nominal pressure 16 bar (PN16)• maximum working temperature: 120°C	NEW
											Packaging			
DN	A	d [mm]	C [mm]	D [mm]	B [mm]	E [mm]	F [mm]	Kvs [m³/h]	Index	individual	bulk			
15	G1/2	15	13	12	79	48,5	96	3,19	KFPZF1	8 pcs	40 pcs			
20	G3/4	20	13	12,5	90,5	55	101,5	6,38	KFPZF2	10	40			
25	G1	25	15	14,5	108	65,5	116,5	10,13	KFPZF3	4	32			
32	G1 1/4	32	16	15,5	137	70,5	116,5	13,66	KFPZF4	2				

Description									
  									
F-Power ball valve with manual air-vent and plug • 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									
NEW Available from 4Q 2021									
									
Packaging									
DN A	d[mm]	C[mm]	D[mm]	B[mm]	E[mm]	F[mm]	Kvs[m³/h]	Index	
15 G1/2	15	12	54	48,5	96	68,5	7,51	KFPO1	individual bulk
20 G3/4	20	12,5	60	55	101,5	74,5	15,48	KFPO2	6 pcs 48 pcs
25 G1	25	14,5	70,5	65,5	116,5	80,5	22,65	KFPO3	6 pcs 36 pcs
32 G1 1/4	32	15,5	83	70,5	116,5	90,5	45,08	KFPO4	4 pcs 24 pcs
40 G1 1/2	40	16	93,5	74	126,5	98,5	58,40	KFPO5	6 pcs 24 pcs
50 G2	50	17,5	107,5	90,5	151,5	109,5	105,99	KFPO6	2 pcs 12 pcs
									1 pcs 6 pcs
  									
F-Power ball valve with manual air-vent and plug • 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									
NEW Available from 4Q 2021									
									
Packaging									
DN A	d[mm]	C[mm]	D[mm]	B[mm]	E[mm]	F[mm]	Kvs[m³/h]	Index	
15 G1/2	15	12	54	48,5	96	71,3	7,51	KFPOM1	individual bulk
20 G3/4	20	12,5	60	55	101,5	77,3	15,48	KFPOM2	10 pcs 50 pcs
25 G1	25	14,5	70,5	65,5	116,5	83,3	22,65	KFPOM3	6 pcs 48 pcs
									5 pcs 20 pcs
  									
F-Power ball valve with drain, manual air-vent and plug • 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									
NEW									
									
Packaging									
DN A	d[mm]	C[mm]	D[mm]	B[mm]	E[mm]	F[mm]	Kvs[m³/h]	Index	
15 G1/2	15	12	54	48,5	96	82,7	7,51	KFPW1	individual bulk
20 G3/4	20	12,5	60	55	101,5	88,7	12,41	KFPW2	8 pcs 64 pcs
25 G1	25	14,5	70,5	65,5	116,5	94,7	21,40	KFPW3	6 pcs 48 pcs
32 G1 1/4	32	15,5	83	70,5	116,5	104,7	41,21	KFPW4	4 pcs 24 pcs
40 G1 1/2	40	16	93,5	74	126,5	112,7	67,17	KFPW5	2 pcs 16 pcs
50 G2	50	17,5	107,5	90,5	151,5	123,7	-	KFPW6	2 pcs 12 pcs
									2 pcs 8 pcs

Description



F-Power concealed ball valve

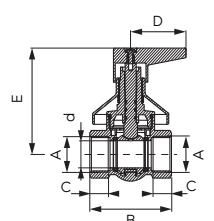
- female-female
- full bore
- with knob and rosette
- red and blue indication cap included
- body and ball material: brass
- material of ball and stem seals: PTFE
- material of stem seals: EPDM (3 pcs O-ring)
- nominal pressure 16 bar (PN16)
- maximum working temperature: 120°C

NEW



Packaging

DN	A	d [mm]	C [mm]	B [mm]	E [mm]	D [mm]	Kvs [m³/h]	Index	individual	bulk
15	G1/2	15	12,5	57	78,8	45,3	7,29	KFP1P	4 pcs	32 pcs
20	G3/4	20	15	66,5	82	45,3	14,00	KFP2P	4 pcs	20 pcs



F-Power concealed ball valve

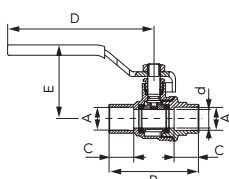
- female-female
- full bore
- with knob and rosette
- body and ball material: brass
- material of ball and stem seals: PTFE
- material of stem seals: EPDM (3 pcs O-ring)
- nominal pressure 16 bar (PN16)
- maximum working temperature: 120°C

NEW



Packaging

DN	A	d [mm]	C [mm]	B [mm]	E [mm]	D [mm]	Kvs [m³/h]	Index	individual	bulk
15	G1/2	15	12,5	57	73,5	45	7,29	KFP1D	4 pcs	32 pcs
20	G3/4	20	15	66,5	76,5	45	14,00	KFP2D	4 pcs	32 pcs



F-Power ball valve for soldering

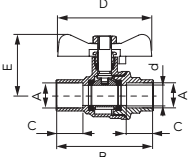

- with gland
- full bore
- handle: metal lever
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure 16 bar (PN16)
- maximum working temperature: 120°C







NEW



Packaging

DN	A	d [mm]	C [mm]	B [mm]	E [mm]	D [mm]	Kvs [m³/h]	Index	individual	bulk
10	12	10	14	52	44	94	3,87	KFPL1	20 pcs	120 pcs
15	15	12	16	58	48	94	5,24	KFPL2	14 pcs	112 pcs
15	18	15	16	60	50	94	6,83	KFPL3	12 pcs	96 pcs
20	22	20	18	71	53	94	12,64	KFPL4	10 pcs	50 pcs
25	28	25	21	83	59	99,5	24,36	KFPL5	10 pcs	40 pcs
32	35	32	24	99	74	130	38,25	KFPL6	6 pcs	24 pcs






Description

F-Power ball valve for soldering

NEW

- with gland
- full bore
- handle: butterfly
- 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]	B [mm]	E [mm]	D [mm]	K _{vs} [m³/h]	Index	individual	bulk
10	12	10	14	52	33	56	3,87	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

For more information on F-POWER ball valves →
see the uploaded videos and visit the FERRO Global channel on YouTube

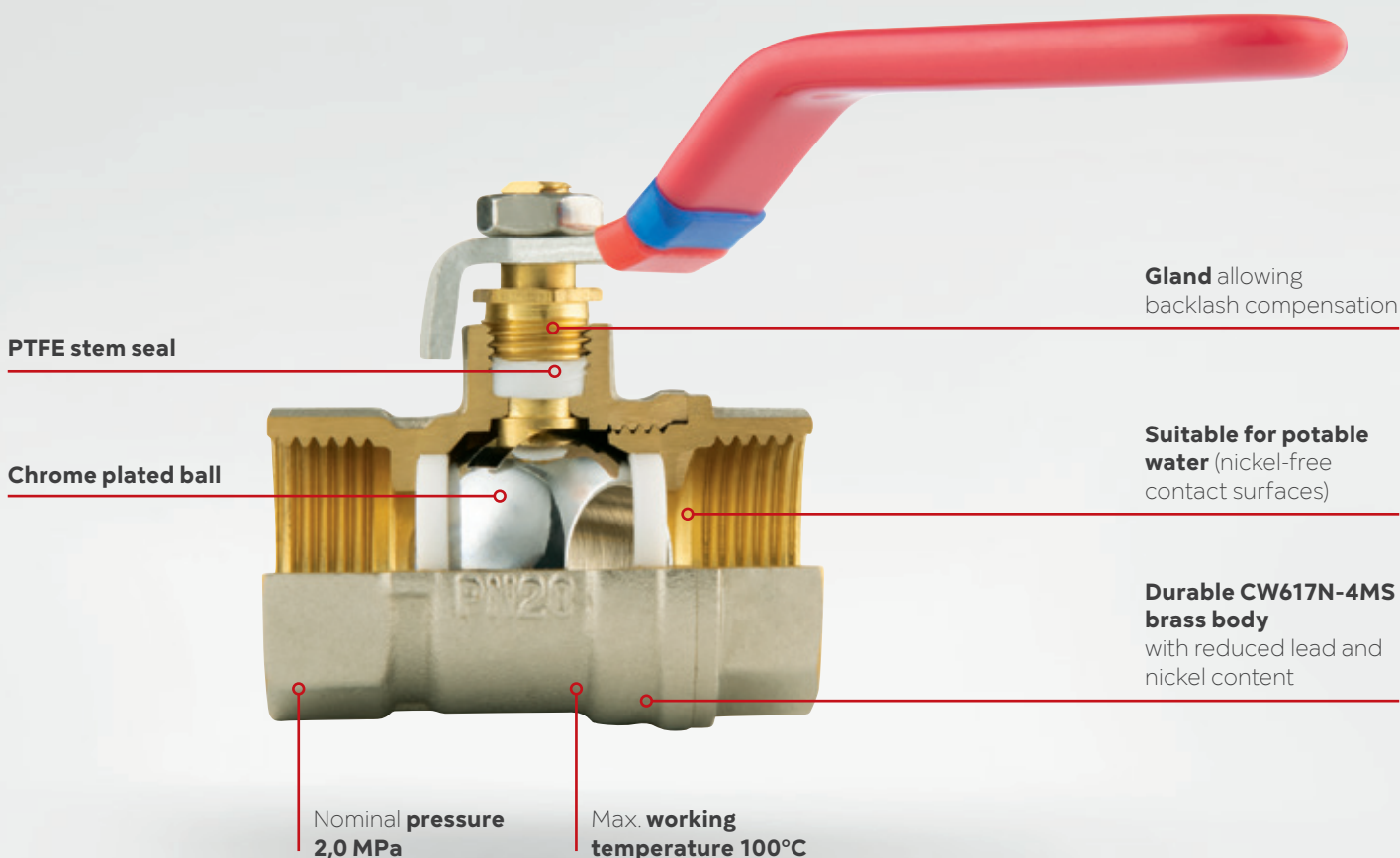


valves.ferrocompany.com



/Ferro Global

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

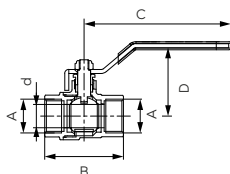
Operating parameters and scope of application

- 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

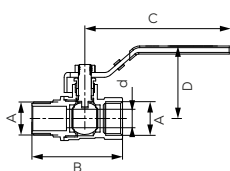
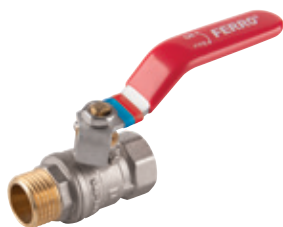
**F-Comfort ball valve**

- 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]	Kvs[m³/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

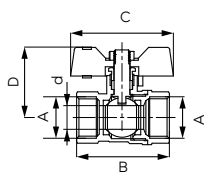
**F-Comfort ball valve**

- 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]	Kvs[m³/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**


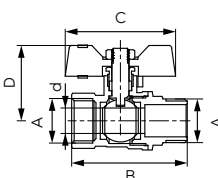


- female-female
- with gland
- handle: metal butterfly
- body and ball material: brass
- material of ball and stem seals: PTFE
- nominal pressure: 20 bar (PN20)
- maximum working temperature: 100°C


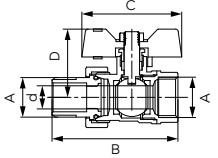




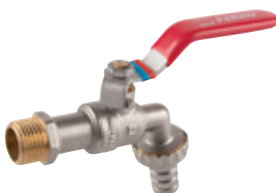
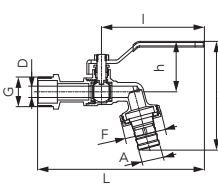


Packaging

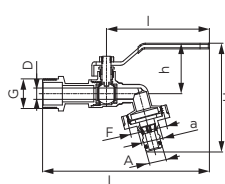
DN	A	d[mm]	B[mm]	C[mm]	D[mm]	Kvs[m³/h]	Index	individual	bulk
15	G1/2	12	47	52	35,5	5,34	KFCM1	24 pcs	120 pcs
20	G3/4	16	55,5	52	38,8	13,31	KFCM2	18 pcs	90 pcs
25	G1	21	63	67,5	49,5	21,28	KFCM3	10 pcs	60 pcs

BALL VALVES - F-COMFORT

							Description								
													F-Comfort ball valve <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		
													Packaging		
DN	A	d [mm]	B [mm]	C [mm]	D [mm]	Kvs [m³/h]	Index			individual		bulk			
15	G1/2	12	54,5	52	35,5	5,34	KFCM11			18 pcs		144 pcs			
20	G3/4	16	62,5	52	38,8	13,31	KFCM21			18 pcs		90 pcs			
25	G1	21	71,5	67,5	50	21,28	KFCM31			10 pcs		60 pcs			

													F-Comfort ball valve <ul style="list-style-type: none">• female-male with union• 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]	Kvs [m³/h]	Index			individual		bulk			
15	G1/2	12	65,5	52	35,5	6,39	KFCS1			15 pcs		75 pcs			
20	G3/4	16	76	52	38,8	11,83	KFCS2			14 pcs		56 pcs			
25	G1	21	87	67,5	50	21,50	KFCS3			12 pcs		36 pcs			

													F-Comfort intake water ball valve <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			
													Packaging			
DN	G	D [mm]	L [mm]	I [mm]	H [mm]	h [mm]	A [mm]	F	Kvs [m³/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	



Description

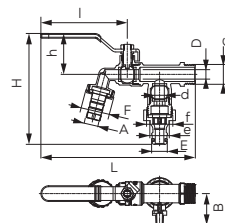
F-Comfort intake water ball valve with plastic quick coupler hose connection

- 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} [m³/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

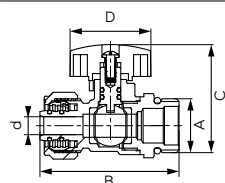
**F-Comfort bibcock with two outlets**

- 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 [mm]	d [mm]	L [mm]	I [mm]	H [mm]	h [mm]	B [mm]	A [mm]	E [mm]	e [mm]	F	f	Index	individual	bulk
15	G1/2	10	10	163	90	117	43	33	15	15,5	19,8	G3/4	G3/4	KCD1	8 pcs	32 pcs
20	G3/4	10	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**

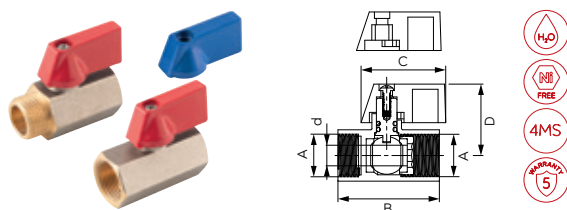

- male
- compression connection for 16x2 mm multilayer pipes with double EPDM O-ring sealing
- 1/2" connection with EPDM O-ring
- double stem sealing (2 pcs O-ring)
- handle: metal butterfly
- body and ball material: brass
- material of ball and stem seals: PTFE
- handle: red or blue (available in set)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

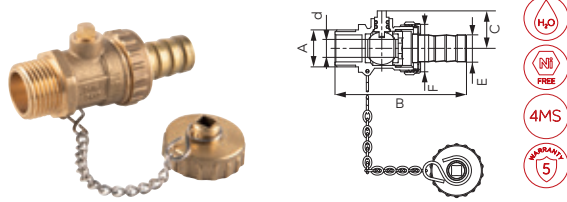



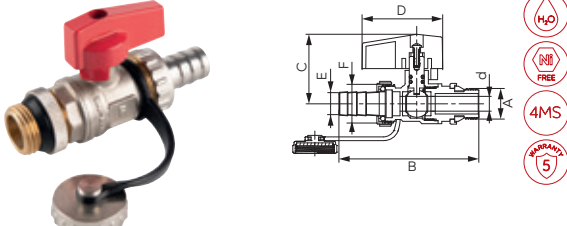

Packaging

DN	A	d [mm]	B [mm]	C [mm]	D [mm]	K _{vs} [m³/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

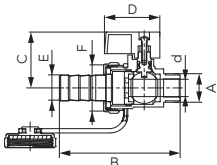
BALL VALVES - F-COMFORT

								Description		
								F-Comfort mini ball valve <ul style="list-style-type: none">• 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} [m³/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 <ul style="list-style-type: none">• 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} [m³/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 <ul style="list-style-type: none">• 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} [m³/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

- 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)
- handle: metal butterfly
- nominal pressure: 10 bar (PN10)
- maximum working temperature: 100°C

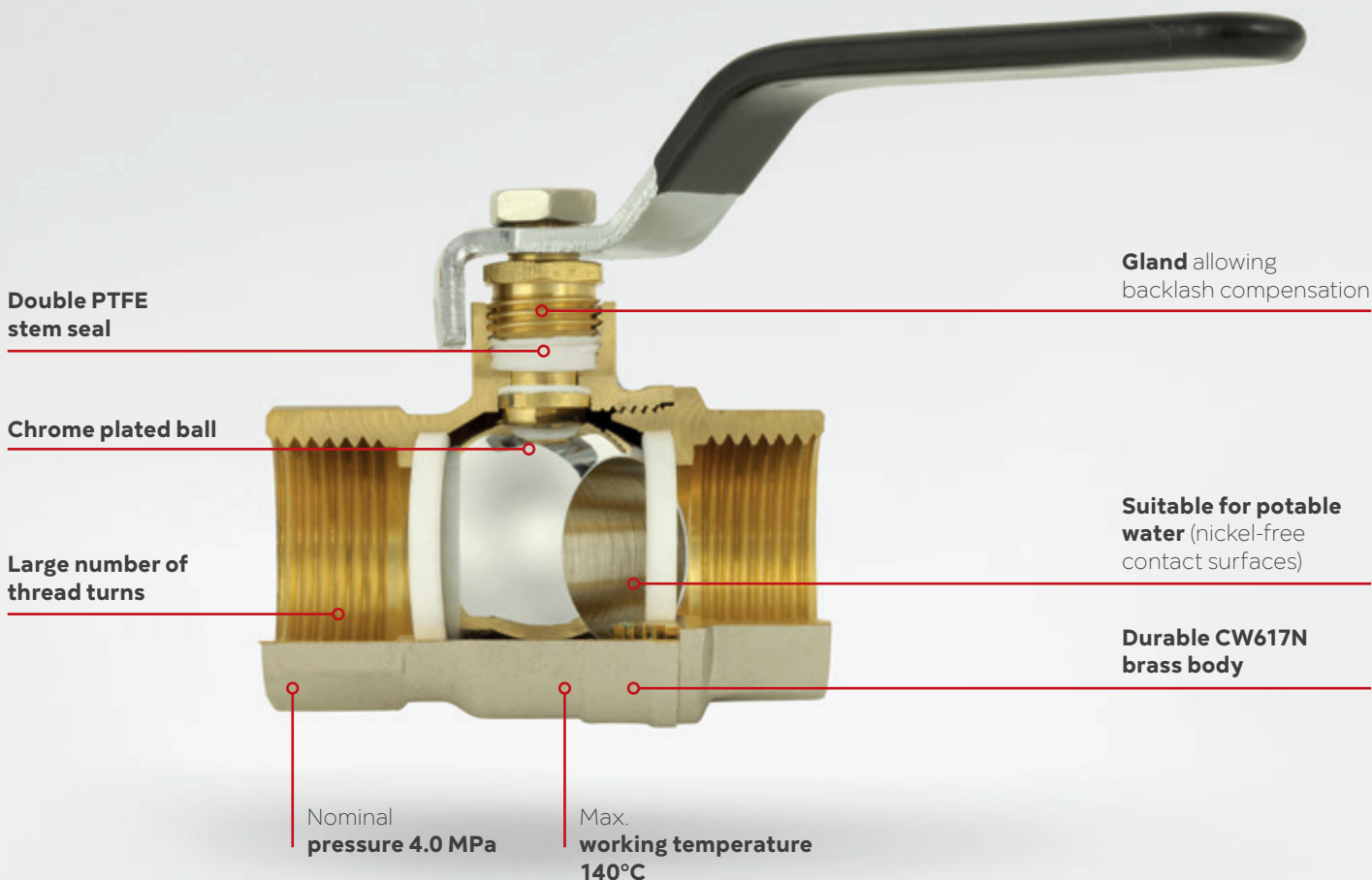


Packaging

DN	A	d[mm]	B[mm]	C[mm]	D[mm]	E[mm]	F	Kvs[m³/h]	Index	individual	bulk
10	G3/8	9	68,5	32,3	32	15	G3/4	3,42	ZSSN10	10 pcs	120 pcs
15	G1/2	9	70,5	32,3	32	15	G3/4	3,54	ZSSN1	10 pcs	120 pcs

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

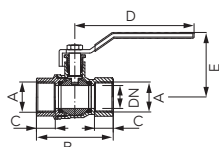
Operating parameters and scope of application

- 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

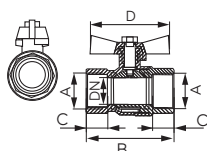
Description

**Herkules ball valve type V17**

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



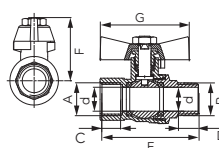
DN	A	B [mm]	C [mm]	D [mm]	E [mm]	Index	Packaging		Index	Index
							individual	bulk		
15	Rp 1/2	56	13	~100	49	KPH1	10 pcs	120 pcs	KPH1W	KPH1E
20	Rp 3/4	66	14,5	~102	55	KPH2	9 pcs	81 pcs	KPH2W	KPH2E
25	Rp 1	76	16,8	~116	64	KPH3	8 pcs	48 pcs	KPH3W	KPH3E
32	Rp 1 1/4	86	18	~116	71	KPH4	4 pcs	36 pcs	KPH4W	
40	Rp 1 1/2	94	18	~149	80	KPH5	2 pcs	18 pcs	KPH5W	
50	Rp 2	115	23	~149	90	KPH6	2 pcs	12 pcs	KPH6W	

**Herkules ball valve type V17**

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



DN	A	B [mm]	C [mm]	D [mm]	Index	Packaging		Index	Index
						individual	bulk		
15	Rp 1/2	56	13	~56	KMH1	12 pcs	144 pcs	KMH1W	KMH1E
20	Rp 3/4	66	14,5	~66	KMH2	9 pcs	81 pcs	KMH2W	KMH2E
25	Rp 1	76	16,8	~72	KMH3	8 pcs	64 pcs	KMH3W	KMH3E

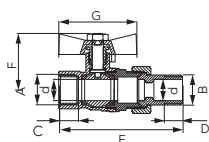
**Herkules ball valve type V17**

- female - male
- full flow
- reinforced
- with a gland and double stem seal
- handle: metal butterfly
- body and ball: brass
- 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		Index	Index
										individual	bulk		
15	Rp 1/2	R 1/2	13	13	15	61,5	40	~56	KMH11	12 pcs	144 pcs	KMH11W	KMH11E
20	Rp 3/4	R 3/4	14,5	14,5	20	70	46,5	~66	KMH21	9 pcs	81 pcs	KMH21W	KMH21E
25	Rp 1	R 1	16,8	16,8	25	81,5	51	~72	KMH31	8 pcs	64 pcs	KMH31W	KMH31E

BALL VALVES - HERKULES



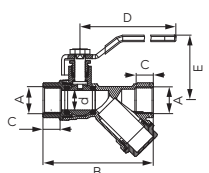
Description

Herkules ball valve type V17

- female - male with full union
- full flow
- reinforced
- with a gland and double stem seal
- handle: metal butterfly
- body and ball: brass
- 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)	
										individual	bulk	Index	Index
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	16,8	17	25	~115	51	~72	KSH3	6 pcs	48 pcs	KSH3W	KSH3E


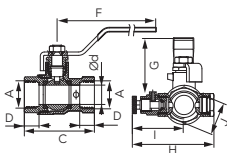







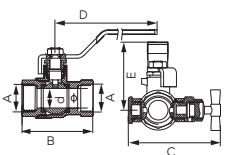



Herkules ball valve type V17


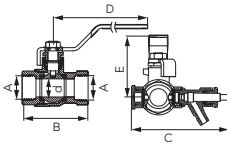



- female - female
- with stainless steel filter
- full flow
- reinforced
- with a gland and double stem seal
- handle: metal lever
- body and ball: brass
- ball and stem seals: PTFE
- nominal pressure: 4,0 MPa (40 bar)
- maximum working temperature: 140°C


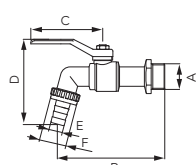





DN	A	B	C[mm]	D[mm]	d[mm]	E[mm]	Index	Packaging		Retail (bags)	
								individual	bulk	Index	Index
15	Rp 1/2	83,5	13	~94	15	49	KZFH1	6 pcs	72 pcs	KZFH1W	
20	Rp 3/4	103,5	14,5	~102	20	55	KZFH2	4 pcs	36 pcs	KZFH2W	
25	Rp 1	121	16,8	~116	25	66	KZFH3	4 pcs	32 pcs	KZFH3W	
32	Rp 1 1/4	143	18	~116	32	71	KZFH4	2 pcs	16 pcs		





										Description			
										   	Ball valve with manual air vent and plug <ul style="list-style-type: none">• female - female with gland• handle: metal lever• body and ball: brass• ball and stem seal: PTFE• nominal pressure: 1.6 MPa (16 bar)• maximum working temperature: 100°C		
													
										Packaging	Retail (bags)		
DN	A	d [mm]	C [mm]	D [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]	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

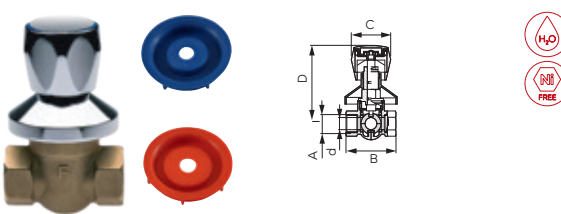


										   	Ball valve with manual air vent and plug <ul style="list-style-type: none">• female - female• full flow with gland• handle: metal lever• body and ball: brass• ball and stem seals: PTFE• nominal pressure: 2,5 MPa (25 bar)• maximum working temperature: 100°C	
											Packaging	
DN	A	d [mm]	B [mm]	C [mm]	D [mm]	Index	individual	bulk				
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				

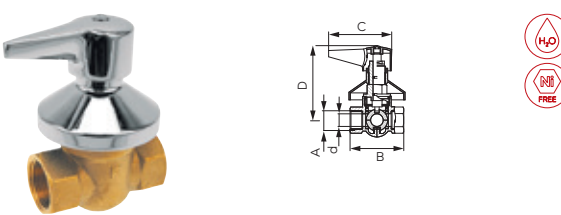


										   	Ball valve with drain cock, manual air vent and plug <ul style="list-style-type: none">• female - female with gland• handle: metal lever• body and ball: brass• ball and stem seal: PTFE• nominal pressure: 2.5 MPa (25 bar)• maximum working temperature: 100°C	
											Packaging	
DN	A	d [mm]	B [mm]	C [mm]	D [mm]	E [mm]	Index	individual	bulk			
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			

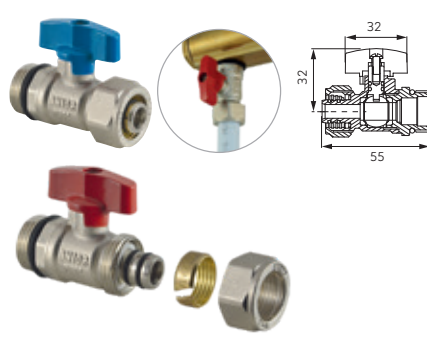



										 	Intake water ball valve <ul style="list-style-type: none">• with gland• with metal hose connector• handle: metal lever• body and ball: brass• ball and stem seal: PTFE• nominal pressure: 1.0 MPa (10 bar)• maximum working temperature: 100°C			
														
										Packaging	Retail (bags)		Retail (Euro slots)	
DN	A	d [mm]	B [mm]	C [mm]	D [mm]	ØE [mm]	F	Kvs [m³/h]	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	

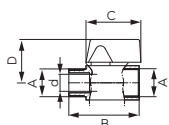
BALL VALVES - OTHER

									Description				
									 Intake water ball valve <ul style="list-style-type: none">• male with gland• with quick coupler hose connection tip• handle: metal lever• body and ball: brass• ball and stem seals: PTFE• nominal pressure: 1,0 MPa (10 bar)• maximum working temperature: 65°C				
									Packaging	Retail (bags)		Retail (Euro slots)	
DN	A	d [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G	Index	individual	bulk	Index	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

							  Flush water ball valve <ul style="list-style-type: none">• female - female• with knob and rosette• body and ball: 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		
							Packaging		
DN	A	d [mm]	B [mm]	C [mm]	D [mm]	K _{vs} [m³/h]	Index	individual	bulk
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

							  Flush water ball valve <ul style="list-style-type: none">• female -female• with lever and rosette• body and ball: brass• ball seal: PTFE• stem seal: NBR (2 O-rings)• nominal pressure: 1.6 MPa (16 bar)• maximum working temperature: 100°C		
							Packaging		
DN	A	d [mm]	B [mm]	C [mm]	D [mm]	K _{vs} [m³/h]	Index	individual	bulk
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

							  1/2" water ball valve for 16 x 2mm multilayer pipes <ul style="list-style-type: none">• valve for connecting PEX pipes in central heating and hot water systems• MT 1/2" connection with EPDM O-ring seal• compression fitting for 16x2 mm multilayer pipes with double EPDM O-ring seal• body and ball: brass• ball seal: PTFE• stem seal: EPDM• handle: metal butterfly• nominal pressure: 1.0 MPa (10 bar)• maximum working temperature: 100°C			
							Packaging	Retail (bags)		
Index							individual	bulk	Index	
with red butterfly handle							KPEX16	10 pcs	200 pcs	KPEX16W
with blue butterfly handle							KPEX16-BH	10 pcs	200 pcs	KPEX16-BHW



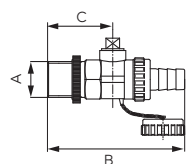
Description

MINI water ball valve

- blue and red handle included
- body and ball: 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



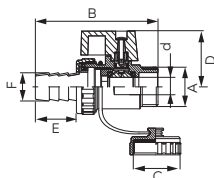
DN	A	d [mm]	B [mm]	C [mm]	D [mm]	Kvs [m³/h]		Index	Packaging		Retail (bags)	
									individual	bulk	Index	Index
10	G1/2	10	45	33	30	4	female - male	KR1	20 pcs	240 pcs	KR1W	KR1E
10	G1/2	10	45	33	30	5	female - female	KR2	20 pcs	240 pcs	KR2W	KR2E
8	G3/8	8	39,5	23	26	-	female - female	KR10	10 pcs	200 pcs	KR10W	
8	G3/8	8	39,5	23	26	-	female - male	KR101	10 pcs	200 pcs	KR101W	

**Drain water ball valve**

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



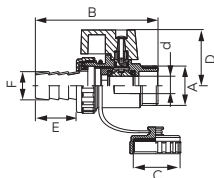
DN	A	d [mm]	B [mm]	C [mm]	Kvs [m³/h]		Index	Packaging		Retail (bags)	
								individual	bulk	Index	Index
15	G1/2	10	70	25	6		ZS1	15 pcs	180 pcs	ZS1W	ZS1E
20	G3/4	12	85	30	12		ZS2	10 pcs	120 pcs	ZS2W	ZS2E

**Drain water ball valve with gasket**

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



DN	A	d [mm]	B [mm]	C	D [mm]	E [mm]	F [mm]	Index	Packaging		Retail (bags)	
									individual	bulk	Index	Index
10	G3/8	10,5	80	G1/2	36,5	18,9	13,1	ZSU10	10 pcs	120 pcs	ZSU10W	
15	G1/2	12	89	G3/4	38	23,5	14,6	ZSU1	10 pcs	100 pcs	ZSU1W	
20	G3/4	15	92	G1	40,5	23,5	19	ZSU2	10 pcs	60 pcs	ZSU2W	


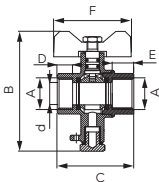



**Drain water ball valve standard**


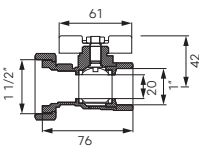



- male
- hose coupling and cap included
- handle: metal butterfly
- body and ball: brass
- ball seal: PTFE
- stem seal: NBR
- nominal pressure: 2.5 MPa (25 bar)
- maximum working temperature: 100°C


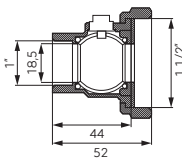






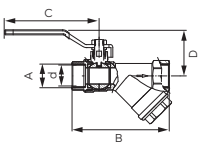




DN	A	d [mm]	B [mm]	C	D [mm]	E [mm]	F [mm]	Index	Packaging		Retail (bags)	
									individual	bulk	Index	Index
10	G3/8	10	69	G3/4	29,5	~23,5	14,6	ZSS10	10 pcs	100 pcs	ZSS10W	ZSS10E
15	G1/2	10	69	G3/4	29,5	~23,5	14,6	ZSS1	10 pcs	100 pcs	ZSS1W	ZSS1E

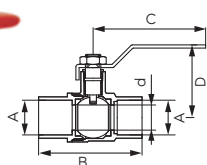
BALL VALVES - OTHER

										Description				
   										Ball valve with M10x1 connection for assembling <ul style="list-style-type: none">• temperature sensor• female - female• handle: metal butterfly• fitting lead seals possible• body and ball: 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]	E [mm]	F [mm]	K _{vs} [m³/h]	Index	Packaging		Retail (bags)		
										individual	bulk	Index		
15	G1/2	14,5	78,0	49,8	10,0	14,0	50,5	8	KMT1	12 pcs	144 pcs	KMT1W		
20	G3/4	19,0	83,6	57,0	13,0	13,0	50,5	14	KMT2	12 pcs	108 pcs	KMT2W		

   										1" ball valve with 1 1/2" 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: brass• ball seal: PTFE• stem seal: PTFE and FP• nominal pressure: 1.0 MPa (10 bar)• maximum working temperature: 110°C				
														
Index										Packaging		Retail (bags)		
										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: brass• ball and stem seal: NBR• nominal pressure: 1.0 MPa (10 bar)• maximum working temperature: 90°C• max. instantaneous working temperature: 100°C				
														
Index										Packaging		Retail (bags)		
										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: brass• ball and stem seal: PTFE• nominal pressure: 1.6 MPa (16 bar)• maximum working temperature: 100°C				
											 			
DN	A	d [mm]	B [mm]	C [mm]	D [mm]	K _{vs} [m³/h]	Index	Packaging		Retail (bags)		Retail (Euro slots)		
								individual	bulk	Index	Index			
15	G1/2	15	75,5	85	42,2	6	KZF1	8 pcs	96 pcs	KZF1W	KZF1E			
20	G3/4	19	96,5	85	45,7	13	KZF2	10 pcs	60 pcs	KZF2W	KZF2E			
25	G1	25	115,4	96	54	20	KZF3	4 pcs	36 pcs	KZF3W	KZF3E			
32	G1 1/4	31	127,6	111	62,7	32	KZF4	2 pcs	18 pcs					



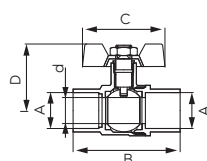
Description

Ball valve for soldering

- handle: metal lever
- body and ball: brass
- ball and stem sealings: PTFE
- nominal pressure: 2.5 MPa (25 bar)
- maximum working temperature: 100°C



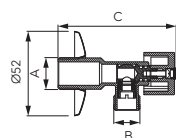
DN	d [mm]	A [mm]	B [mm]	C [mm]	D [mm]	Kvs [m³/h]	Index	Packaging		Retail (Euro slots)
								individual	bulk	
10	10	12	51,2	80,5	40,6	5	KPL1	20 pcs	240 pcs	
10	12	15	58,6	80,5	42,6	7	KPL2	14 pcs	168 pcs	KPL2E
15	15	18	60,6	93,5	46,8	8	KPL3	12 pcs	144 pcs	KPL3E
20	19	22	71,6	93,5	50,3	11	KPL4	10 pcs	120 pcs	KPL4E
25	25	28	82,8	111,5	57,5	19	KPL5	10 pcs	60 pcs	KPL5E
32	31	35	99,2	118,2	64,1	38	KPL6	6 pcs	36 pcs	

**Ball valve for soldering**

- handle: metal butterfly
- body and ball: brass
- ball and stem seals: PTFE
- nominal pressure: 2,5 MPa (25 bar)
- maximum working temperature: 100°C

DN	d [mm]	A [mm]	B [mm]	C [mm]	D [mm]	Kvs [m³/h]	Index	Packaging	
								individual	bulk
10	10	12	51,2	53	36,1	5	KPL11	20 pcs	240 pcs
10	12	15	58,6	53	38,1	7	KPL21	15 pcs	180 pcs
15	15	18	60,6	65	41,3	8	KPL31	16 pcs	192 pcs
20	19	22	71,6	65	44,8	11	KPL41	12 pcs	144 pcs

ANGLE VALVES



Description

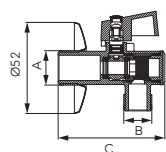
Ball valve with rosette and metal knob

- 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	75,2	1/2"x3/8" with coupling for copper pipe Ø10 mm	Z1238MK	1 pcs	100 pcs
G1/2	G3/8	75,2	1/2"x3/8"	Z1238K	1 pcs	100 pcs
G1/2	G1/2	75,2	1/2"x1/2"	Z1212K	1 pcs	100 pcs
G1/2	G3/4	75,2	1/2"x3/4"	Z1234K	1 pcs	100 pcs



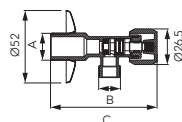
Ball valve with filter, rosette and metal knob

- 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	63	1/2"x3/8" with coupling for copper pipe Ø10 mm	Z1238MKF	1 pcs	100 pcs
G1/2	G3/8	63	1/2"x3/8"	Z1238KF	1 pcs	100 pcs
G1/2	G1/2	63	1/2"x1/2"	Z1212KF	1 pcs	100 pcs
G1/2	G3/4	63	1/2"x3/4"	Z1234KF	1 pcs	100 pcs



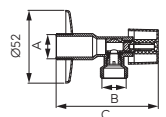
Poppet valve, rosette and metal knob

- 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"x3/8" with coupling for copper pipe Ø10 mm	Z1238MG	1 pcs	100 pcs
G1/2	G3/8	78,5	1/2"x3/8"	Z1238G	1 pcs	100 pcs
G1/2	G1/2	78,5	1/2"x1/2"	Z1212G	1 pcs	100 pcs
G1/2	G3/4	78,5	1/2"x3/4"	Z1234G	1 pcs	100 pcs




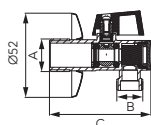



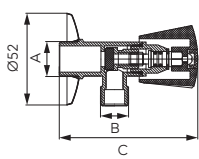



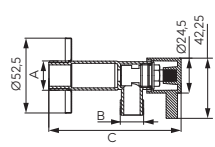



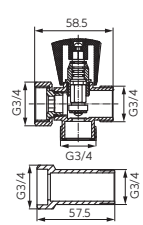

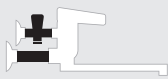

Ball valve with rosette

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






Packaging

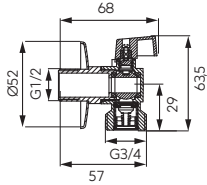
A	B	C [mm]	Size of connectors	Index	individual	bulk
G1/2	G3/8	79	1/2"x3/8" with coupling for copper pipe Ø10 mm	EZ1238MK	1 pcs	100 pcs
G1/2	G3/8	79	1/2"x3/8"	EZ1238K	1 pcs	100 pcs
G1/2	G1/2	79	1/2"x1/2"	EZ1212K	1 pcs	100 pcs
G1/2	G3/4	79	1/2"x3/4"	EZ1234K	1 pcs	100 pcs

				Description		
  				Ball valve with filter, rosette and aluminium handle <ul style="list-style-type: none"> 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	61	1/2"x3/8" with coupling for copper pipe Ø10 mm	EZ1238MKF	1 pcs	100 pcs
G1/2	G3/8	61	1/2"x3/8"	EZ1238KF	1 pcs	100 pcs
G1/2	G1/2	61	1/2"x1/2"	EZ1212KF	1 pcs	100 pcs
G1/2	G3/4	61	1/2"x3/4"	EZ1234KF	1 pcs	100 pcs
  				Poppet valve <ul style="list-style-type: none"> 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	81,5	1/2"x3/8" with coupling for copper pipe Ø10 mm	Z240	1 pcs	100 pcs
G1/2	G3/8	81,5	1/2"x3/8"	Z241	1 pcs	100 pcs
G1/2	G1/2	81,5	1/2"x1/2"	Z220	1 pcs	100 pcs
G1/2	G3/4	81,5	1/2"x3/4"	Z230	1 pcs	100 pcs
  				Angle valve with ceramic head <ul style="list-style-type: none"> 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	98	1/2"x3/8"	Z1238C	1 pcs	100 pcs
G1/2	G1/2	98	1/2"x1/2"	Z1212C	1 pcs	100 pcs
G1/2	G3/4	98	1/2"x3/4"	Z1234C	1 pcs	100 pcs
  				Washing machine connection valve with 3/4" <ul style="list-style-type: none"> chrome nominal pressure: 1.0 MPa (10 bar) max. working temperature: 100°C 		
					Packaging	
				Index	individual	bulk
				Z250	1 pcs	36 pcs

ANGLE VALVES

  		Description	
		Faucet extension G3/4 <ul style="list-style-type: none">• chrome 	
		Packaging	
Index		individual	bulk
P480		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						
		Packaging						
Index		individual	bulk					
CF3019A		1 pcs	100 pcs					
		Double poppet valve Combi 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**	**Index**	individual	bulk
G1/2	**G3/8**	G3/4	114	84	3/8"x1/2"x3/4" with coupling for copper pipe Ø10 mm	**CF5104**	1 pcs	24 pcs
G1/2	**G1/2**	G3/4	114	84	1/2"x1/2"x3/4"	**CF5105**	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		individual	bulk					
CF3016		1 pcs	100 pcs					



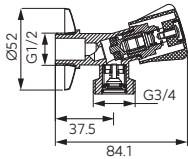
Description

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



Index	Packaging	
	individual	bulk
CF3027	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



Index	Packaging	
	individual	bulk
CF3017	1 pcs	100 pcs

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More information?

More information on new ball valves can be found at:



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/Ferro Global



FERRO S.A.

ul. Przemysłowa 7
32-050 Skawina
Polska

T: +48 12 25 62 100

F: +48 12 27 67 606

E: export@ferro.pl

www.ferrocompany.com



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