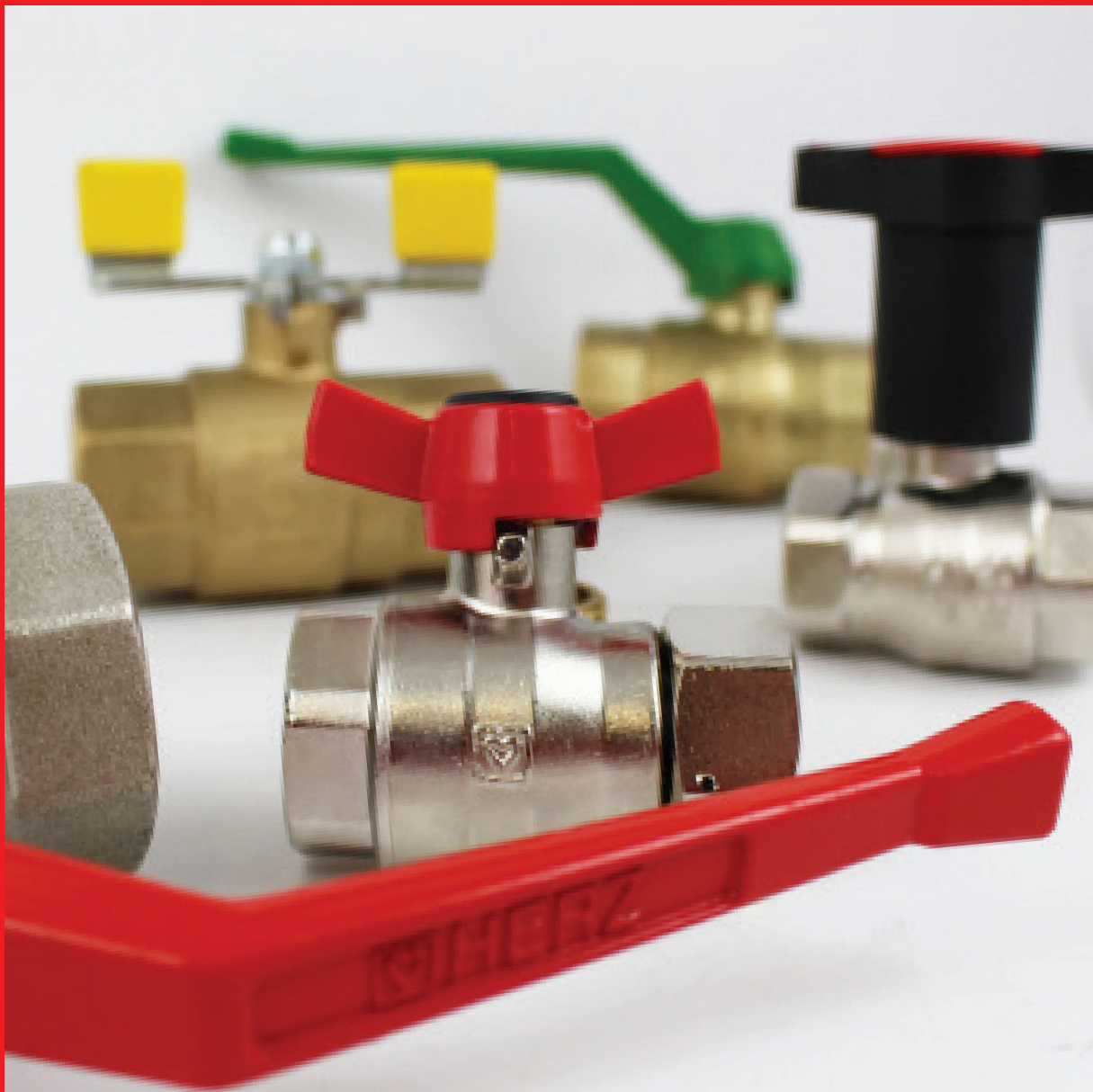


# HERZ Ball Valves

Reliable and robust



## Ball valves - reliable and robust

### ☑ Overview

Ball valves are used as shut-off elements in heating and cooling systems, drinking water systems and gas pipes. The ball at the centre of this type of valve serves as a shut-off element. A distinction is made between full bore and reduced bore ball valves. In full bore or full flow ball valves, the bore in the ball corresponds to the inside diameter of the pipe. This serves to minimise flow losses.

HERZ ball valves for drinking water are always designed with no dead space - the entire ball valve body is flushed and optimum hygiene is guaranteed.

Reliability, robustness, simple installation and a long service life are the main advantages of HERZ ball valves. In order to be able to guarantee a continuously high quality standard, the production process of HERZ ball valves is particularly important. Comprehensive quality assurance measures are at the heart of this process. The centrepiece is comprehensive quality assurance measures, which begin with the selection of materials and are concluded with the final inspection (tests and measurements) in the company's own test laboratory.

HERZ ball valves can be selected to suit the area of application, the pressure in the system and/or depending on the connections and the handle. In this brochure you will find a detailed overview of the extensive HERZ product portfolio for ball valves.



### ☑ Benefits

- ☑ Development, design and production of HERZ
- ☑ Large variety of products
- ☑ Made in Europe
- ☑ Covers various areas of application



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To ensure smooth operation and prevent any deposits from forming, ball valves must be moved twice a year (i.e. the valve must be opened and closed several times at least every six months).



## ☑ Quality, experience and competence



In terms of their technical performance, ball valves from HERZ can certainly be described as high-tech products - after all, the production line incorporates a high level of expertise and state-of-the-art technology.

The production process starts with brass rods, which - depending on the end product - are cut to defined lengths by machine.

The blanks are then heated to between 650 °C and 750 °C and, in the next step, forged under pressure to form the blank.

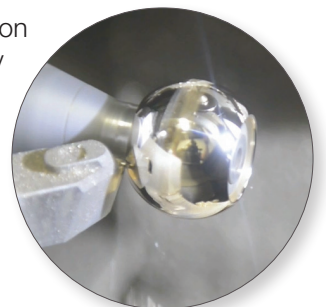
Depending on the complexity and size of the forged part, forging presses are used that apply clamping forces of between 120 and 360 tonnes. The entire process is automated and is monitored and controlled at every stage.

The forged blanks are further processed in shot peening machines. The steel balls used in this process remove burrs and give the surface its characteristic, evenly matt structure.



Every day, HERZ produces around 80,000 forged blanks in the dimensions 1/4" to 2".

Modern CNC machines are used in the further course of production. Most of these are integrated into robot-supported production lines. The machining processes are largely automated. This guarantees consistently high quality and precision in production. The production capacity of the machinery is approx. 45,000 units per day.





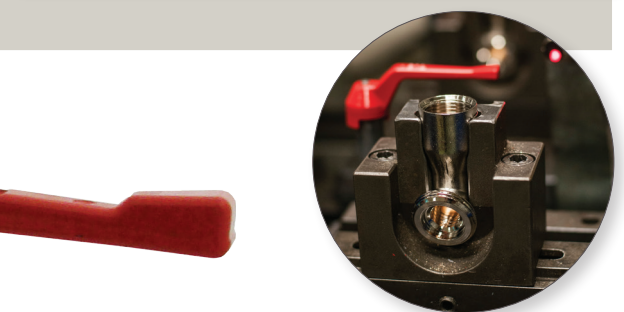
## ☑ Quality, experience and competence

The chips produced during machining are collected, separated from coolants and lubricants and recycled. Brass is particularly suitable for a closed, sustainable raw material cycle.

The nickel or chrome plating of the surfaces is carried out in the in-house, semi-automated electroplating lines.

The individual parts are assembled using automated assembly lines. At the end of the manufacturing process, the products undergo comprehensive quality control, during which the key product features are checked.

HERZ is certified according to ISO 9001:2015. To ensure the highest possible quality, the defined processes and procedures are continuously monitored and optimised. Results from regular stress tests that simulate typical operating conditions guarantee the long service life of our products. International certificates confirm the high quality of products made by HERZ.



**A centrepiece  
of building technology  
made in Europe**



## Fittings for heating and cooling

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Ball valves are used as shut-off elements in heating and cooling systems. The HERZ ball valves can be selected according to the pressure or temperature in the system, depending on the connections and the handle. Reliability, robustness, easy installation and long service life are the main strengths of HERZ ball valves.

Production is subject to constant quality control. This means that every product that leaves the production line is thoroughly and repeatedly tested.

The body, ball and stem of HERZ ball valves are manufactured from high quality brass in accordance with the current European standards EN12164, EN12165 and EN1982. The use of this material is ideally suited for ball valves as it has all the relevant properties for the intended use, in particular appropriate strength and excellent corrosion resistance.



## ☑ Fittings for heating and cooling - Ball valves

### ☑ Nickel-plated ball valves with silumin handles

Socket x socket version. Housing made of forged brass, nickel-plated. Ball with full bore. Ball seals PTFE, stem seal with PTFE. Female thread to ISO 228.

Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



☑ Ball valve with lever handle, PN 25



☑ Ball valve with T-handle, PN 25

DN	PN	Order number	Order number
15	25	1 <b>2201</b> 01	1 <b>2201</b> 11
20	25	1 <b>2201</b> 02	1 <b>2201</b> 12
25	25	1 <b>2201</b> 03	1 <b>2201</b> 13
32	25	1 <b>2201</b> 04	1 <b>2201</b> 14
40	25	1 <b>2201</b> 05	-
50	25	1 <b>2201</b> 06	-

### ☑ Nickel-plated ball valves with galvanised sheet steel handles

Socket x socket version. Housing made of forged brass, nickel-plated. Ball with full bore. Ball seals PTFE, stem seal with PTFE. Female thread to ISO 228.

Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



☑ Ball valve with lever handle, PN 25



☑ Ball valve with T-handle, PN 25

DN	PN	Order number	Order number
15	25	1 <b>2201</b> 21	1 <b>2201</b> 31
20	25	1 <b>2201</b> 22	1 <b>2201</b> 32
25	25	1 <b>2201</b> 23	1 <b>2201</b> 33
32	25	1 <b>2201</b> 24	1 <b>2201</b> 34
40	25	1 <b>2201</b> 25	-
50	25	1 <b>2201</b> 26	-



## ☑ Valves for heating and cooling - Ball valves

### ☑ Ball valves with silumin handles

Socket x socket design. Housing made of forged, dezincification-resistant special brass. Ball with full bore. Ball seals PTFE, stem seal with PTFE. Female thread to ISO 228. Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



☑ Ball valve with lever handle, PN 25



☑ Ball valve with T-handle, PN 25

DN	PN	Order number	Order number
15	25	1 <b>2206</b> 01	1 <b>2206</b> 11
20	25	1 <b>2206</b> 02	1 <b>2206</b> 12
25	25	1 <b>2206</b> 03	1 <b>2206</b> 13
32	25	1 <b>2206</b> 04	1 <b>2206</b> 14
40	25	1 <b>2206</b> 05	-
50	25	1 <b>2206</b> 06	-

### ☑ Ball valves with handles made of galvanised sheet steel

Socket x socket design. Housing made of forged, dezincification-resistant special brass. Ball with full bore. Ball seals PTFE, stem seal with PTFE. Female thread to ISO 228. Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



☑ Ball valve with lever handle, PN 25




☑ Ball valve with T-handle, PN 25

DN	PN	Order number	Order number
15	25	1 <b>2206</b> 21	1 <b>2206</b> 31
20	25	1 <b>2206</b> 22	1 <b>2206</b> 32
25	25	1 <b>2206</b> 23	1 <b>2206</b> 33
32	25	1 <b>2206</b> 24	1 <b>2206</b> 34
40	25	1 <b>2206</b> 25	-
50	25	1 <b>2206</b> 26	-


## ☑ Fittings for heating and cooling - Ball valves

### ☑ Accessories

#### Stem extension

Execution	Dimension	Order number
 <p><b>Spindle extension for HERZ ball valves</b> The spindle extensions enable/facilitate the operation of the ball valves 1 <b>22xx</b> xx, if insulation material (for example HERZ insulation shells 1 <b>4096</b> 2x) is appropriate.</p>	<b>15 - 20</b>	1 <b>2201</b> 94
	<b>25 - 32</b>	1 <b>2201</b> 95
	<b>40 - 50</b>	1 <b>2201</b> 96

#### Insulation shells

Execution	Dimension	Order number
 <p><b>Insulating shells</b> EPP (expanded polypropylene), color anthracite/black, B2 according to DIN 4102 and E according to DIN EN 13501-1, Volume weight approx. 45 kg/m<sup>3</sup>, integrated geometric closure. Suitable for ball valve <b>2201</b> and <b>2206</b>.</p>	<b>15</b>	1 <b>4096</b> 21
	<b>20</b>	1 <b>4096</b> 22
	<b>25</b>	1 <b>4096</b> 23
	<b>32</b>	1 <b>4096</b> 24
	<b>40</b>	1 <b>4096</b> 25
	<b>50</b>	1 <b>4096</b> 26

### ☑ Silumin material

Silumin is an alloy based on aluminium and silicon. This combination is decisive for numerous positive product properties, e.g. high wear resistance and mechanical strength, low weight and good corrosion resistance.



## ☑ Valves for heating and cooling - Ball valves, heavy-duty design

Heavy-duty ball valves are designed for heating and cooling systems where the working conditions are more demanding than with conventional systems. Due to their robust design, heavy-duty ball valves can be used at higher pressures. The use of this valve enables safe operation of a system under difficult conditions such as large temperature fluctuations of the medium and sudden pressure loads.

### ☑ Nickel-plated ball valves with stuffing box and silumin handles

Socket x socket version. Housing made of forged brass, nickel-plated. Ball with full bore. Ball seals PTFE, stem seal with PTFE. Female thread to ISO 228.

Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



☑ Ball valve with lever handle



☑ Ball valve with wing handle

DN	PN	Order number	Order number
8	63	1 <b>2100</b> 09	1 <b>2100</b> 19
10	63	1 <b>2100</b> 00	1 <b>2100</b> 10
15	50	1 <b>2100</b> 01	1 <b>2100</b> 11
20	50	1 <b>2100</b> 02	1 <b>2100</b> 12
25	50	1 <b>2100</b> 03	1 <b>2100</b> 13
32	40	1 <b>2100</b> 04	1 <b>2100</b> 14
40	40	1 <b>2100</b> 05	-
50	40	1 <b>2100</b> 06	-
65	16	1 <b>2100</b> 07	-
80	16	1 <b>2100</b> 08	-

### ☑ Ball valves with stuffing box and handles made of silumin

Socket x socket design. Housing made of forged, dezincification-resistant special brass. Ball with full bore. Ball seals PTFE, stem seal with PTFE. Female thread to ISO 228.

Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



☑ Ball valve with lever handle

DN	PN	Order number
15	50	1 <b>2190</b> 01
20	50	1 <b>2190</b> 02
25	50	1 <b>2190</b> 03
32	40	1 <b>2190</b> 04
40	40	1 <b>2190</b> 05
50	40	1 <b>2190</b> 06



## ☑ Valves for heating and cooling - Ball valves, heavy-duty design

### ☑ Nickel-plated ball valves with drain valve and handles made of galvanised sheet steel

Socket x socket version. Housing made of forged brass, nickel-plated. Ball with full bore. PTFE and NBR seals, stem seal with O-ring. Female thread to ISO 228.

Min. operating temperature: -10 °C (water +0.5 °C), max. operating temperature: 80 °C.



☑ Ball valve with draining valve and lever handle



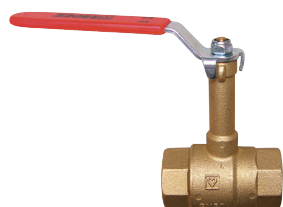
☑ Ball valve with draining valve and T-handle

DN	PN	Order number	Order number
15	40	1 <b>2402 01</b>	1 <b>2402 11</b>
20	40	1 <b>2402 02</b>	1 <b>2402 12</b>
25	40	1 <b>2402 03</b>	1 <b>2402 13</b>
32	40	1 <b>2402 04</b>	1 <b>2402 14</b>
40	25	1 <b>2402 05</b>	-

### ☑ Ball valves with extended spindle and handles made of galvanised sheet steel

Socket x socket design. Housing made of forged, dezincification-resistant special brass. Ball with full bore. PTFE seals, stem seal with O-ring. Female thread to ISO 228.

Min. operating temperature: -10 °C (water +0.5 °C), max. operating temperature: 130 °C (water up to 110 °C, no steam).



☑ Ball valve with extended spindle and lever handle

DN	PN	Order number
15	50	1 <b>2190 21</b>
20	50	1 <b>2190 22</b>
25	50	1 <b>2190 23</b>
32	50	1 <b>2190 24</b>
40	25	1 <b>2190 25</b>
50	25	1 <b>2190 26</b>

## ☑ Valves for heating and cooling - Ball valves with Dutch connection AG

### ☑ Ball valves nickel-plated with Dutch connection AG and handles made of silumin

Socket x connection nipple design. Housing made of forged brass, nickel-plated. Ball with full bore.

Ball seals PTFE, screw connection EPDM, stem seal with PTFE. Female thread to ISO 228.

Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



☑ Ball valve with lever handle, PN 25



☑ Ball valve with T-handle, PN 25

DN	PN	Order number	Order number
15	25	1 <b>2211</b> 01	1 <b>2211</b> 11
20	25	1 <b>2211</b> 02	1 <b>2211</b> 12
25	25	1 <b>2211</b> 03	1 <b>2211</b> 13
32	25	1 <b>2211</b> 04	1 <b>2211</b> 14
40	25	1 <b>2211</b> 05	-
50	25	1 <b>2211</b> 06	-

### ☑ Ball valves nickel-plated with Dutch connection AG and handles made of galvanised sheet steel

Socket x connection nipple design. Housing made of forged brass, nickel-plated. Ball with full bore.

Ball seals PTFE, screw connection EPDM, stem seal with PTFE. Female thread to ISO 228.

Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



☑ Ball valve with lever handle, PN 25



☑ Ball valve with T-handle, PN 25

DN	PN	Order number	Order number
15	25	1 <b>2211</b> 21	1 <b>2211</b> 31
20	25	1 <b>2211</b> 22	1 <b>2211</b> 32
25	25	1 <b>2211</b> 23	1 <b>2211</b> 33
32	25	1 <b>2211</b> 24	1 <b>2211</b> 34
40	25	1 <b>2211</b> 25	-
50	25	1 <b>2211</b> 26	-

## ☑ Valves for heating and cooling - Ball valves with Dutch connection AG

### ☑ Ball valves with Dutch connection AG and handles made of silumin

Socket x connection nipple design. Housing made of forged, dezincification-resistant special brass, ball with full bore. Ball seals PTFE, screw connection EPDM, stem seal with PTFE. Internal thread to ISO 228. Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



☑ Ball valve with lever handle, PN 25



☑ Ball valve with T-handle, PN 25

DN	PN	Order number	Order number
15	25	1 <b>2216</b> 01	1 <b>2216</b> 11
20	25	1 <b>2216</b> 02	1 <b>2216</b> 12
25	25	1 <b>2216</b> 03	1 <b>2216</b> 13
32	25	1 <b>2216</b> 04	1 <b>2216</b> 14
40	25	1 <b>2216</b> 05	-
50	25	1 <b>2216</b> 06	-

### ☑ Ball valves nickel-plated with Dutch connection AG and handles made of galvanized sheet steel

Socket x connection nipple design. Housing made of forged, dezincification-resistant brass. Ball with full bore. Ball seals PTFE, screw connection EPDM, spindle seal with PTFE. Female thread according to ISO 228. Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



☑ Ball valve with lever handle, PN 25



☑ Ball valve with T-handle, PN 25

DN	PN	Order number	Order number
15	25	1 <b>2216</b> 21	1 <b>2216</b> 31
20	25	1 <b>2216</b> 22	1 <b>2216</b> 32
25	25	1 <b>2216</b> 23	1 <b>2216</b> 33
32	25	1 <b>2216</b> 24	1 <b>2216</b> 34
40	25	1 <b>2216</b> 25	-
50	25	1 <b>2216</b> 26	-

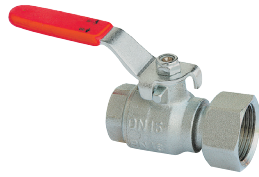
☑ **Accessories:** Stem extension for HERZ ball valves 1 **22xx** xx see page 6



## ☑ Fittings for heating and cooling - Ball valves with free-turning union nut

### ☑ Ball valves in straight design nickel-plated with handles made of galvanised sheet steel

Socket x union nut design, flat-sealing. Body made of forged brass, nickel-plated. Ball with full bore. PTFE and NBR seals, stem seal with O-ring. Female thread to ISO 228. Suitable for connecting heat and cooling meters, water meters or gas boilers; the union nut can be sealed with sealing wire. Min. operating temperature: -10 °C (water +0.5 °C), max. operating temperature: 80 °C.



☑ KBall valve with freely-rotating union nut, with lever handle, PN 16



☑ KBall valve with freely-rotating union nut, with T-handle, PN 16

DN	PN	Order number	Order number
15	16	1 2442 01	1 2442 11
20	16	1 2442 02	1 2442 12

### ☑ Ball valves in angle design nickel-plated with handles made of silumin

Socket x union nut design, flat-sealing. Body made of forged brass, nickel-plated. Ball with full bore. PTFE seals. Internal thread to ISO 228. Suitable for connecting heat and cooling meters, water meters or gas boilers; the union nut can be sealed with sealing wire. Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



☑ Ball valve with T-handle, angle version, red, PN 25

DN	PN	Order number
15	25	1 2224 21
20	25	1 2224 22



## ☑ Fittings for heating and cooling - Ball valves with extended T- handle

### ☑ Nickel-plated ball valves with thermometer in the T- handle

Socket x socket version. Housing made of forged brass, nickel-plated. Ball with full bore.

Ball seals PTFE, stem seal with PTFE. Female thread to ISO 228.

Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



☑ Ball valve with extended T-handle with thermometer, red, PN 25

☑ Ball valve with extended T-handle with thermometer, blue, PN 25

DN	PN	Order number	Order number
15	25	1 <b>2201</b> 61	1 <b>2201</b> 71
20	25	1 <b>2201</b> 62	1 <b>2201</b> 72
25	25	1 <b>2201</b> 63	1 <b>2201</b> 73
32	25	1 <b>2201</b> 64	1 <b>2201</b> 74
40	25	1 <b>2201</b> 65	1 <b>2201</b> 75
50	25	1 <b>2201</b> 66	1 <b>2201</b> 76

### ☑ Ball valves with thermometer in T- handle

Socket x socket version. Housing made of forged, dezincification-resistant special brass.

Ball with full bore. PTFE ball seals, stem seal with PTFE. Female thread to ISO 228.

Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



☑ Ball valve with extended T-handle , red, PN 25

☑ Ball valve with extended T-handle , blue, PN 25

DN	PN	Order number	Order number
15	25	1 <b>2206</b> 61	1 <b>2206</b> 71
20	25	1 <b>2206</b> 62	1 <b>2206</b> 72
25	25	1 <b>2206</b> 63	1 <b>2206</b> 73
32	25	1 <b>2206</b> 64	1 <b>2206</b> 74
40	25	1 <b>2206</b> 65	1 <b>2206</b> 75
50	25	1 <b>2206</b> 66	1 <b>2206</b> 76

## ☑ Fittings for heating and cooling - Ball valves with extended T- handle

### ☑ Nickel-plated ball valves with T- handle

Socket x socket version. Housing made of forged brass, nickel-plated. Ball with full bore. Ball seals PTFE, stem seal with PTFE. Female thread to ISO 228.

Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



☑ Ball valves with extended T-handle, red, PN 25



☑ Ball valves with extended T-handle, blau, PN 25

DN	PN	Order number	Order number
15	25	1 <b>2201</b> 41	1 <b>2201</b> 51
20	25	1 <b>2201</b> 42	1 <b>2201</b> 52
25	25	1 <b>2201</b> 43	1 <b>2201</b> 53
32	25	1 <b>2201</b> 44	1 <b>2201</b> 54
40	25	1 <b>2201</b> 45	1 <b>2201</b> 55
50	25	1 <b>2201</b> 46	1 <b>2201</b> 56

### ☑ Ball valves with T- handle

Socket x socket version. Housing made of forged, dezincification-resistant special brass. Ball with full bore. PTFE ball seals, stem seal with PTFE. Female thread to ISO 228.

Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



☑ Ball valves with extended T-handle, red, PN 25



☑ Ball valves with extended T-handle, blue, PN 25


DN	PN	Order number	Order number
15	25	1 <b>2206</b> 41	1 <b>2206</b> 51
20	25	1 <b>2206</b> 42	1 <b>2206</b> 52
25	25	1 <b>2206</b> 43	1 <b>2206</b> 53
32	25	1 <b>2206</b> 44	1 <b>2206</b> 54
40	25	1 <b>2206</b> 45	1 <b>2206</b> 55
50	25	1 <b>2206</b> 46	1 <b>2206</b> 56

## ☑ Valves for heating and cooling - Changeover ball valve, heavy-duty design

### ☑ Nickel-plated changeover ball valve with silumin handle

ASocket x socket design. Forged brass body. Ball with full bore. PTFE ball seals, Stem seal with PTFE, internal thread to ISO 228.

Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).

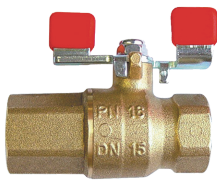
 <p>☑ Changeover ball valve</p>	DN	PN	Order number
	15	40	1 2412 01

## Valves for heating, cooling and sanitary applications - Ball valves with non-return valve

### ☑ Ball valves yellow with non-return valve

Socket x socket design. Housing made of forged, dezincification-resistant special brass. Ball with full bore. PTFE and EPDM seals, stem seal with O-ring, female thread to ISO 228, spring-loaded plastic check valve fitted, suitable for drinking water built-in spring-loaded plastic non-return valve, suitable for drinking water.

Min. operating temperature: -10 °C (water +0.5 °C), max. operating temperature: 85 °C.

 <p>☑ Ball valve with T-handle and non-return valve, PN 16</p>	DN	PN	Order number
	15	16	1 2110 01
	20	16	1 2110 02

## ☑ Fittings for heating and cooling - Ball valves for HERZ stainless steel manifolds

### ☑ Ball valves nickel-plated, straight design

Socket x Dutch connection version. With 1" connection nipple for HERZ stainless steel manifold, O-ring sealing. Housing made of forged brass, nickel-plated. Ball with full bore. Ball seals PTFE, stem seal with PTFE. Connection seals EPDM, internal thread to ISO 228. Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



☑ Ball valve with T- handle in straight design, red, PN 25

☑ Ball valve with T- handle in straight design, blue, PN 25

DN	PN	Order number	Order number
25	25	1 2205 13	1 2205 23

### ☑ Ball valves nickel-plated, angle design

Socket x Dutch connection version. With 1" connection nipple for HERZ stainless steel manifold, O-ring sealing. Housing made of forged brass, nickel-plated. Ball with full bore. Ball seals PTFE, stem seal with PTFE. Connection seals EPDM, internal thread to ISO 228. Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



☑ Ball valve with T-handle, angle version , red, PN 25

☑ Ball valve with T-handle, angle version , blue, PN 25

DN	PN	Order number	Order number
25	25	1 2224 03	1 2224 13





## ☑ Fittings for heating and cooling - Ball valves for HERZ stainless steel manifolds

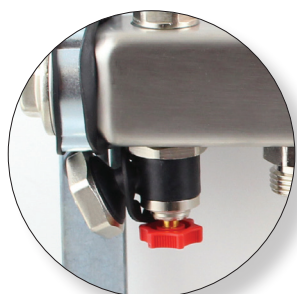
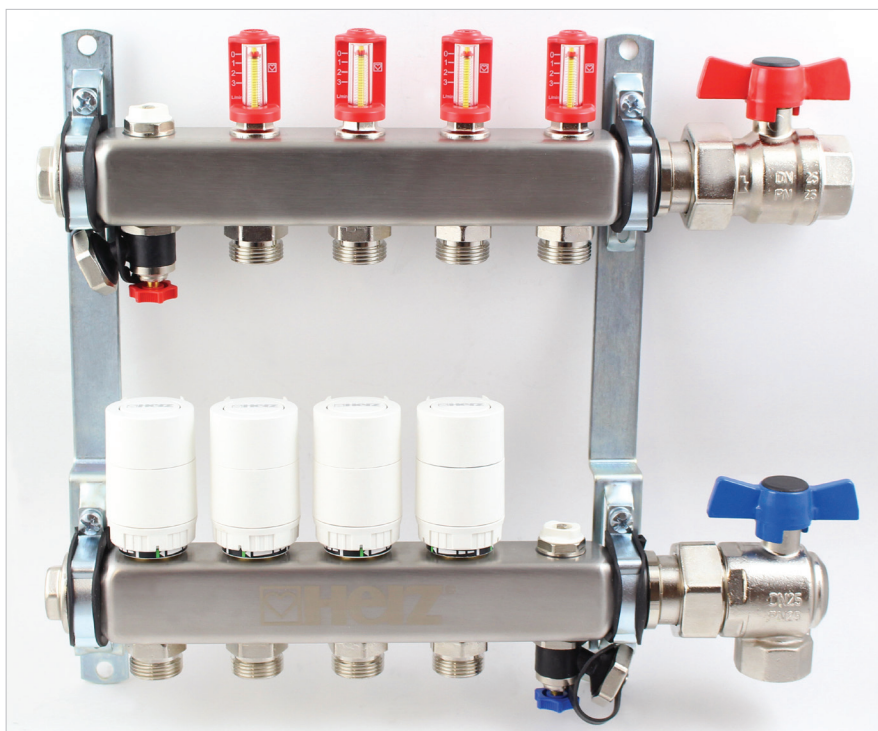
### ☑ Installation situation

The ball valves 1 **2205** 13/23 in straight design and 1 **2224** 03/13 in angle design were specially developed for the HERZ stainless steel manifold.

HERZ stainless steel distributor can be used for underfloor, wall and ceiling heating and cooling systems as well as in combination with radiators. In the product variant with thermostatic valves and flowmeters (see illustration), individual heating circuits can be controlled individually and the flow rates can be set specifically.

The manifolds are sealed on one side with an end module. The manifold inlet has a G 1" internal thread - this means that a connection connection is also possible with threaded pipes or with an adapter for the HERZ PIPEFIX system.

HERZ PIPEFIX system is possible.



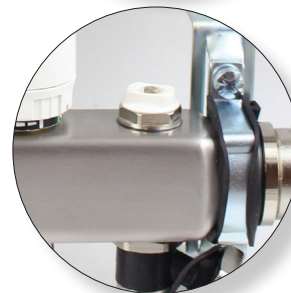
**Drain valve:** The flow direction is indicated by the handle colour of the valve (red: flow / blue: return). A filling and draining valve with a G 3/4" connection thread is provided on the flow and return bars. It is possible to add the HERZ hose connection 1 **6206** 01 .



**Ball valves:** In the socket x Dutch connection version, nickel-plated.



**Thermostatic valves:** The HERZ thermostatic valves are suitable for all HERZ thermomotors.



**Venting valves:** A vent valve is fitted to the flow and return manifolds. The valves can be operated with the HERZ universal spanner.



**HERZ Flowmeter:** Heat and cold-resistant plastic in combination with dezincification-resistant brass ensure maximum service life. Double O-ring seals and a non-flow-through display area ensure long-term functionality. The simple operation via the reading unit without the need for tools is extremely easy to install and customer-friendly. Two design variants, up to 3 l/min and up to 6 l/min, provide a wide range of applications.

### Ball valve with lever handle in straight design

Version socket x external thread R 5/4", flat sealing. Housing made of forged brass, nickel-plated. Ball with full bore. Ball seals PTFE, stem seal with PTFE. Female thread to ISO 228, male thread to ISO 7-1.

Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).



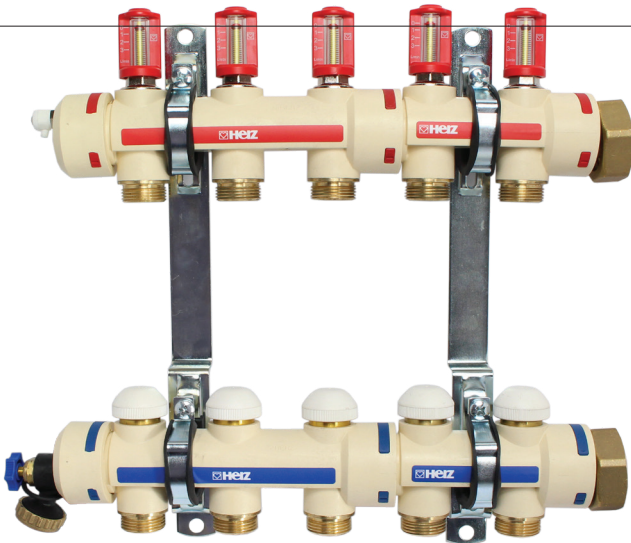
Ball valve with lever handle in straight design, red, PN 25



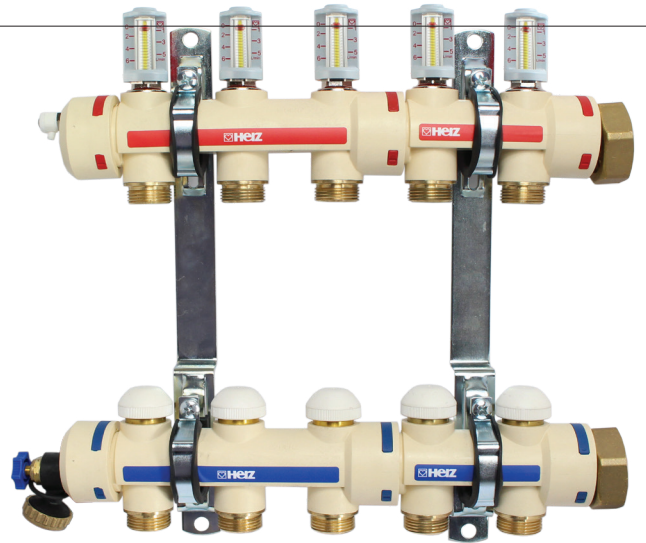
Ball valve with wing handle in straight design, red, PN 25

DN	PN	Order number	Order number
32	25	1 2228 04	1 2228 14

### HERZ Climate distributor UNI-MINI



1 8732 03 - 12



1 8733 03 - 12

### Benefits

- Great flexibility thanks to modular design - Expansion is possible
- Made from highly resistant, heat- and sound-insulating polyamide, glass fibre reinforced
- Condensation is minimised when used in cooling systems
- High flow rate possible
- Easy to operate and maintain
- Reliable design and long service life
- Simple installation
- Compatible with other HERZ products
- Integrated venting and draining valve



#### Drain valve:

The direction of flow can be seen from the handle colour of the valve (blue: return). A filling and draining valve with a G 3/4" connection thread is provided on the return bar. It is possible to add the HERZ hose connection 1 **6206** 01.



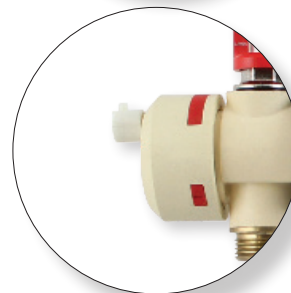
#### Ball valves:

In the socket x Dutch connection version, nickel-plated.



#### Thermostatic valve:

The HERZ thermostatic valves are suitable for all HERZ thermomotors (**7708** and **7711**).



#### Venting valve:

A venting valve is fitted to the flow manifold.



#### HERZ Flowmeter:

Heat and cold-resistant plastic in combination with dezincification-resistant brass ensure maximum service life. Double O-ring seals and a non-flow-through display area ensure long-term functionality. The simple operation via the reading unit without the need for tools is extremely easy to install and customer-friendly. Two design variants, up to 3 l/min and up to 6 l/min, provide a wide range of applications.

## Product description

HERZ composite manifolds can be used for floor, wall and ceiling heating and cooling systems. Individual heating circuits can be regulated individually using flowmeters. The manifolds are closed on one side with an end module. The manifold connection is flat-sealing with a G 1 1/4" freely rotating nut on the manifold. Manifold outlets are with G 3/4" Eurocone connection.

### Materials

- Distribution manifold: PA6 30% GF
- Thermostatic valve: Brass
- Holders: Steel
- Brackets: PA6 30% GF (RED / BLUE)

### Operational data

- Max. Operating pressure: 6 bar
- Min. Operating temperature: -5 °C
- Max. Operating temperature: 60 °C



## ☑ Fittings for heating and cooling - Multifunctional taps with handwheel and thermometer

### ☑ 3-way ball valves with flush and drain connection with handwheel and thermometer

Version socket x socket x nipple x socket Additional connection\*). Housing made of forged, dezincification-resistant special brass. Ball with full bore. Stem seal with PTFE and O-ring, internal thread to ISO 228. Connection for draining or pressure gauge. T-bore of the ball enables many applications such as flushing or filling systems and system parts. Min. operating temperature: -10 °C (water +0.5 °C), max. operating temperature: 110 °C.



☑ Multifunction ball valve with red wheel and thermometer 0-120 °C, PN 25



☑ Multifunction ball valve with blue wheel and thermometer 0-120 °C, PN 25

DN	PN	*)Socket	Order number	Order number
20	25	G 3/8" IG	1 <b>2414</b> 02	1 <b>2415</b> 02
25	25	G 1/2" IG	1 <b>2414</b> 03	1 <b>2415</b> 03
32	25	G 1/2" IG	1 <b>2414</b> 04	1 <b>2415</b> 04

## Valves for heating and cooling - Pump ball valves

### ☑ Pump ball valves

Version socket x union nut\*). Housing made of forged brass. Ball with full bore. Ball seals PTFE, stem seal with PTFE. Female thread to ISO 228. Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).




☑ Ball valve for pump with check valve



☑ Ball valve for Pump

DN	PN	*)Nut	Order number	Order number
25	16	1 1/2"	1 <b>2268</b> 03	1 <b>2269</b> 03

### ☑ Accessories

Design		PN	DN	Order number
	<b>Check valve and pump connection</b> Housing made of forged brass, EPDM seals, max. Operating temperature: 90 °C	<b>25</b>	<b>20</b>	1 <b>2634</b> 03



## ☑ Fittings for heating and cooling - Two-way regulating ball valves

### ☑ Two-way regulating ball valves

Socket x socket design. Housing made of forged brass. Ball with V-shaped bore, with equal-percentage characteristic. Stem seal with double O-ring, internal thread to ISO 7-1. For precise control without leakage losses of cold and hot water in closed circuits. Min. operating temperature: -10 °C (water +0.5 °C), max. operating temperature: 110 °C (no steam).




☑ Two-way ball valve with female thread and handle    ☑ Two-way ball valve with female thread, without handle


kvs	DN	PN	Order number	Order number
5	15	40	1 <b>2117</b> 01	1 <b>2117</b> 11
8	20	40	1 <b>2117</b> 02	1 <b>2117</b> 12
12,5	25	40	1 <b>2117</b> 03	1 <b>2117</b> 13
20	32	25	1 <b>2117</b> 04	1 <b>2117</b> 14
32	40	25	1 <b>2117</b> 05	1 <b>2117</b> 15
50	50	25	1 <b>2117</b> 06	1 <b>2117</b> 16

### ☑ Accessories

#### Two-way control ball valve Handle

Design	Dimension	Order number
 <p><b>Manual drive</b> for HERZ regulating valves without operating element 2117, that are not equipped with a valve drive.</p>	15 - 50	1 2100 90

#### Two-way regulating ball valve Rotary actuator


Design	Operating voltage	Order number
 <p><b>Rotary drive</b> for HERZ regulating ball valves without operation <b>2117</b>. Supply voltage 230 V AC, control: 2-point or 3-point, disengageable gear for positioning the ball valve and for manual adjustment, synchronous motor with control and switch-off electronics; torque 8 Nm, running time 120 s; Protection class IP 54; Vertical to horizontal mounting, not suspended.</p>	230 V AC	1 7712 33
<p><b>Rotary drive</b> for HERZ regulating ball valves without operation <b>2117</b>. Supply voltage 24 V AC/DC, control: 2-point, 3-point or continuous, operating range continuous 0-10 V, disengageable gear for positioning the ball valve and for manual adjustment, synchronous motor with control and switch-off electronics; torque 8 Nm, running time 35/60/120 s; characteristic curve type adjustable on the actuator, Protection class IP 54; Vertical to horizontal mounting, not suspended.</p>	24 V AC/DC	1 7712 35




## ☑ Fittings for heating and cooling - Ball valve for impulse line

### ☑ Ball valve 1/8" nickel plated

Connection thread AG x IG 1/8"

			
☑ Ball valve for capillary		☑ Ball valve with capillary for differential pressure controller	
Dimension	Length	Order number	Order number
1/8"		1 4007 78	-
1/8"	1,0 m	-	1 4002 78


### ☑ Accessories

Design		Length	Order number
	<b>Capillary for differential pressure controller</b> with connecting nipple 1/8" x 1/4"	1,0 m	1 4007 79
		1,5 m	1 4007 80
		2,0 m	1 4002 80

## Fittings for heating and cooling - Boiler filling and draining taps

### ☑ Boiler filling and draining tap, heavy-duty THERMOFLEX version

Pipe connection with external thread. Housing made of forged brass. Brass plug, with full bore. EPDM seals. Smooth-running thanks to disc spring and friction disc. Outlet with cap and seal. Hose connection to be ordered separately. Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 110 °C (no steam).


	DN	PN	Order number
	10	10	1 4119 00
	10	15	1 4119 01
	10	20	1 4119 02

☑ Boiler filling and draining valve THERMOFLEX, PN 10

## ☑ Fittings for heating and cooling - Boiler filling and draining taps

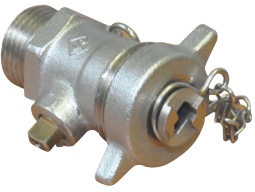
### ☑ Boiler filling and draining tap with wing handle and hose nozzle

Pipe connection with external thread. Housing made of forged brass. Ball with full bore. PTFE and NBR seals. Min. operating temperature: -10 °C (water +0.5 °C), max. operating temperature: 110 °C (no steam).

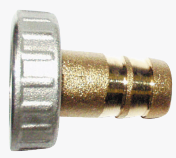
 <p>☑ <b>Ball valve with spigot and union nut 1/2", PN 10</b></p>	DN	PN	Order number
	15	10	1 2512 01
	20	10	1 2512 02

### ☑ Nickel-plated boiler filling and draining tap

Pipe connection with external thread. Housing made of forged brass, nickel-plated. Ball with full bore. EPDM seals. The blind cap can be used for actuation and is secured against loss with a chain. Min. operating temperature: -10 °C (water +0.5 °C), max. operating temperature: 110 °C (no steam).

 <p>☑ <b>Boiler filling and draining valve, PN 10</b></p>	DN	PN	Order number
	15	10	1 2512 11

### ☑ Accessories

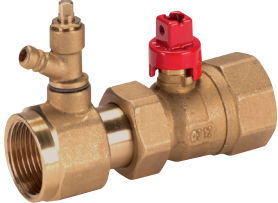
Design	DN	Order number
 <p><b>Hose connection 1/2"</b> Nut and hose nozzle</p>	15	1 6206 01

## ☑ Valves for heating and cooling - Cap ball valves for connecting expansion vessels

### ☑ Ball valves with cap

Socket x socket design. Forged brass body. Ball with full bore. Ball seals PTFE, spindle seal with EPDM, internal thread to ISO 228.

Flat-sealing connection possible on the heating side, thread-sealing connection for expansion vessel. Separable by means of Dutch screw connection. 1 2205 02 is suitable for direct installation on 1 4513 30 (connection set for expansion vessel).  
Min. operating temperature: -10 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).

 <p>☑ Ball valve for expansion tank connection, PN 16</p>	DN	PN	Order number
	16	20	1 2205 02
	16	25	1 2205 03


## Fittings for heating and cooling - Ball valve with connection for temperature sensor or pulse line 1/8"

### ☑ Ball valve with connection for temperature sensor or pulse line 1/8"

Socket x socket version. Housing made of forged brass, nickel-plated. Ball with full bore.

PTFE seals, female thread to ISO 228. M10 sensor connection can be sealed with sealing wire. For use in combination with heat and cold flow meters. In the open position, the medium to be measured flows around the sensor - temperature changes can be detected quickly and reliably. When the ball valve is closed, the temperature sensor can be replaced without having to drain the heating system.


Min. operating temperature: -30 °C (water +0.5 °C), max. operating temperature: 150 °C (water up to 110 °C, no steam).

 <p>☑ Ball valve with connections for temperature sensor, PN 25</p>	DN	PN	Order number
	25	15	1 2202 81
	25	20	1 2202 82
	25	25	1 2202 83

## Fittings for heating and cooling - Connection piece for wall-mounted boiler with filter and magnet

### Connection piece for wall-mounted boiler with filter and magnet

Nipple x union nut design. Housing made of forged brass, nickel-plated. Ball with full bore. EPDM seals. Integrated filter and magnet for separating ferromagnetic particles. Backflow preventer upstream of boiler connection, removable cap, filter and magnet can be cleaned under system pressure. Max. Max. operating temperature: 90 °C (no steam).

	DN	PN	Order number
 <p><input checked="" type="checkbox"/> Under-boiler magnetic filter</p>	10	20	1 1125 02

### Installation situation


With the HERZ connection piece with filter and magnet (1 1125 02), any impurities in the system are filtered mechanically. This works with the aid of the internal filter insert.

The neodymium magnet also catches ferromagnetic impurities. This magnet is so strong that it can capture all ferrous contaminants. Extremely easy maintenance is made possible by the combination of ball valve and non-return valve, which means that the system does not have to be emptied to clean the filter and magnet.

HERZ uses high-quality brass for the connection piece, which complies with the standards DIN EN12164 and DIN EN12165. The filter is made of Hostaform and stainless steel. The handle is made of silumin.



### Impulse cable

	DN	PN	Order number
 <p><input checked="" type="checkbox"/> Double nipple pulse cable</p>	16	20	1 4007 77



## Valves for drinking water supply

Drinking water taps differ from heating taps primarily in terms of the materials used. The use of physiologically safe materials such as dezincification-resistant brass alloys and suitable sealing materials ensures that the high drinking water quality is maintained.

A key criterion in the development of drinking water fittings is a construction design free of dead spaces. On its way from the waterworks through the widely ramified distribution network, loose deposits (dirt particles) can be picked up by the water. These undissolved substances are subsequently deposited and can lead to incrustations or favour the formation of biofilms by bacteria. Thanks to the dead space-free design, the entire body of the ball valve is flushed and the ball valve remains clean and hygienic during operation.

Full bore ball valves or full flow ball valves are characterised by the fact that the diameter of the ball bore is the same as that of the pipe. This serves on the one hand to minimise friction losses and on the other hand, together with the dead space-free design, to ensure maximum hygiene.

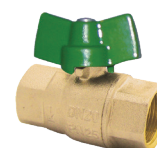
HERZ valves can be used for drinking water temperatures up to 85 °C.



## ☑ Valves for drinking water supply

### ☑ Ball valves

Socket x socket design. Housing made of forged, dezincification-resistant special brass. Ball with full bore free of dead space. PTFE and EPDM ball seals. Stem seal with O-ring, Internal thread to ISO 228. Max. operating temperature: 85 °C.



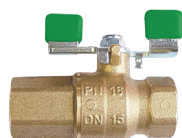
☑ Ball valve with lever handle, PN 25

☑ Ball valve with T-handle, PN 25

DN	PN	Order number	Order number
15	25	2 <b>2100</b> 01	2 <b>2100</b> 11
20	25	2 <b>2100</b> 02	2 <b>2100</b> 12
25	25	2 <b>2100</b> 03	2 <b>2100</b> 13
32	25	2 <b>2100</b> 04	2 <b>2100</b> 14
40	25	2 <b>2100</b> 05	-
50	25	2 <b>2100</b> 06	-

### ☑ Ball valves with non-return valve

Socket x socket design. Housing made of forged, dezincification-resistant special brass. Ball with full bore free of dead space. Ball seals PTFE and EPDM, stem seal with O-ring, Internal thread to ISO 228, built-in spring-loaded plastic non-return valve. Max. operating temperature: 85 °C.



☑ Ball valve with T-handle and non-return valve, PN 16



☑ Ball valve with lever handle and non-return valve, PN 16

DN	PN	Order number	Order number
15	16	2 <b>2110</b> 01	2 <b>2110</b> 11
20	16	2 <b>2110</b> 02	2 <b>2110</b> 12

## ☑ Valves for drinking water supply

### ☑ Ball valves with press connection

Version with press connections for aluminium multilayer pipes. Housing made of forged, dezincification-resistant special brass. Ball with full bore - dead space-free design. Press fitting TH non-pressed and leaking.  
Max. Max. operating temperature: 85 °C.




  <b>☑ Ball valve with lever handle and press connection, PN 16</b>	Dimension	PN	Order number
	Ø 16 x 2,0	16	T <b>7216</b> 62
	Ø 20 x 2,0	16	T <b>7220</b> 62
	Ø 26 x 3,0	16	T <b>7226</b> 62

### ☑ Concealed ball valves

Socket x socket design. Housing made of forged, dezincification-resistant special brass. Ball with no dead space design. PTFE and EPDM seals, stem seal with O-ring, internal thread to ISO 228.

Installation depth (pipe axis to wall surface) DN 15: 25 - 40 mm, DN 20: 30 - 45 mm



Max. Max. operating temperature: 90 °C (briefly 110 °C).

 		<b>☑ Flash ball valve without lever, PN 16</b>		<b>☑ Flash ball valve with lever, PN 16</b>	
		DN	PN	Order number	Order number
15	16	1 <b>2202</b> 01	1 <b>2202</b> 11		
20	16	1 <b>2202</b> 02	1 <b>2202</b> 12		


## ☑ Valves for drinking water supply

### ☑ Concealed ball valves with lever and press connection

Version with press connections for aluminium multilayer pipes. Housing made of forged, dezincification-resistant special brass. Ball in dead space-free design. Press fitting TH non-pressed and leaking. Max. operating temperature: 85 °C.

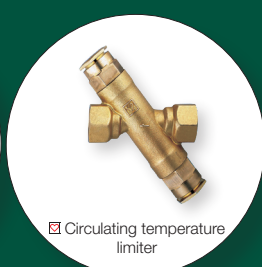
 	Dimension	PN	Order number
	Ø 16 x 2,0	16	T 7216 63
	Ø 20 x 2,0	16	T 7220 63
<input checked="" type="checkbox"/> <b>Flush ball valve with lever and press connection, PN 16</b>	Ø 26 x 3,0	16	T 7226 63

### ☑ Accessories

Design	Dimension	EAN 90 04174	Order number
 <p><b>Spindle extension for HERZ Flush ball valves</b> The spindle extensions enable a deeper installation of the concealed ball valves of 55 - 70 mm from the pipe axis to the wall surface. Suitable for 1 <b>2202</b> 01/02/11/12</p>	15 - 20	03940 9	1 2201 97

## HERZ - THE specialist for drinking water installations

In addition to the extensive range of ball valves, the HERZ product range also includes a large selection of drinking water fittings and accessories for every area of application, e.g.





## Valves for gas supply

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Gas ball valves are used as shut-off elements in gas systems for explosive, flammable gases (natural gas) up to a maximum pressure of 500 kPa (5 bar) and in a temperature range of - 20 °C to + 60 °C. The cross-section of the built-in brass ball corresponds to the penetration. The cross-section of the built-in brass ball corresponds to the penetration - the ball valve is opened or closed by turning the handle or lever 90 degrees.

Due to their standard dimensions, the design of some ball valves is also suitable for use in pipe installations for all types of non-aggressive media (oil, air, water, ...) in a temperature range from - 20 °C to + 110 °C (water from +0.5 °C to +200 °C) and for operating pressures up to max. 2500 kPa (25 bar).





Ball valves with a thermal valve safety device (TAS) close the gas pipe in the event of fire and protect against uncontrolled gas leakage and explosions for a longer period of time - at a temperature of 925 °C for at least one hour.



## Fittings for gas supply - Ball valves in straight design





### Ball valves in straight design with hand lever made of sheet steel

Socket x socket design. Brass body in accordance with EN 12165, with O-ring seal for ball and spindle.  
Nominal pressure PN 1 (HTB 650 °C / 30 min), operating temperature: -20 °C to +60 °C.

		 		 	
		<input checked="" type="checkbox"/> Ball valve with sheet steel lever, PN 1		<input checked="" type="checkbox"/> KBall valve with sheet steel lever, PN 1	
DN	MOP	PN	Order number	Order number	Order number
10	5	1	1 <b>2300</b> 20	-	-
15			1 <b>2300</b> 21	1 <b>2300</b> 01	-
20			1 <b>2300</b> 22	1 <b>2300</b> 02	-
25			1 <b>2300</b> 23	1 <b>2300</b> 03	-
32			1 <b>2300</b> 24	1 <b>2300</b> 04	-
40			1 <b>2300</b> 25	1 <b>2300</b> 05	-
50			1 <b>2300</b> 26	1 <b>2300</b> 06	-

### Ball valves in straight design with wing handle made of sheet steel

Socket x socket design. Brass body in accordance with EN 12165, with O-ring seal for ball and spindle.  
Nominal pressure PN 1 (HTB 650 °C / 30 min), operating temperature: -20 °C to +60 °C.

		 		 	
		<input checked="" type="checkbox"/> Ball valve with sheet steel T-handle, PN 1		<input checked="" type="checkbox"/> Ball valve with sheet steel T-handle, PN 1	
DN	MOP	PN	Order number	Order number	Order number
10	5	1	1 <b>2300</b> 30	1 <b>2300</b> 10	-
15			1 <b>2300</b> 31	1 <b>2300</b> 11	-
20			1 <b>2300</b> 32	1 <b>2300</b> 12	-
25			1 <b>2300</b> 33	1 <b>2300</b> 13	-
32			1 <b>2300</b> 34	1 <b>2300</b> 14	-

Note: All information contained in this document corresponds to the information available at the time of printing and is for information purposes only. We reserve the right to make changes in line with technical progress. All diagrams are symbolic and do not claim to be complete. The illustrations are symbolic representations and may therefore differ visually from the actual products. Possible colour deviations are due to the printing process. Country-specific product deviations are possible. We reserve the right to make changes to technical specifications and function. If you have any questions, please contact your nearest HERZ branch.

## ☑ Valves for gas supply - Ball valves in angle design

### ☑ Ball valves in angle design with wing handle

Version AG x AG (1 **2362** 10) or IG x AG (1 **2372** 11). Brass body according to EN 12165, nickel-plated. With double O-ring seal for spindle, ball with Teflon seal. Nominal pressure PN 1, operating temperature: -20 °C to +60 °C.



☑ Ball valve for device connection with T-handle, angle version, AG x AG, PN 1



☑ Ball valve for device connection with T-handle, angle version, IG x AG, PN 1

DN	MOP	PN	Order number	Order number
10	5	1	1 <b>2362</b> 10	1 <b>2372</b> 11

From the practice - for the practice




- ☑ Comprehensive range of topics
- ☑ Individually adapted to the participants
- ☑ Theoretical presentations
- ☑ Practical training (laboratory exercises)
- ☑ Inspection of reference systems
- ☑ Visit to the factory

Our sales representative will be happy to inform you about all planned event dates. We are also happy to organise individual training dates for groups or companies.

## ☑ Valves for gas supply - Ball valves with thermal valve protection

### ☑ TAS security operation

If the ambient temperature exceeds 100 °C in the event of a fire, the seal in the TAS safety insert melts and triggers the spring held by a pin. This presses the TAS insert against the sealing cone, preventing the flow of gas through the valve.

The valve remains closed for a period of at least one hour under thermal stress of up to 925 °C.



### ☑ Ball valves in straight design with thermal valve protection

Socket x socket version. Brass body in accordance with EN 12165, nickel-plated. With O-ring seal for spindle and ball. Nominal pressure PN 1 (HTB 925 °C / 60 min), operating temperature: -20 °C to +60 °C.



☑ Ball valve with sheet steel lever, PN 1



☑ Ball valve with sheet steel T-handle, PN 1

DN	MOP	PN	Order number	Order number
15	5	1	1 <b>2302</b> 01	1 <b>2302</b> 11
20			1 <b>2302</b> 02	1 <b>2302</b> 12
25			1 <b>2302</b> 03	1 <b>2302</b> 13

### ☑ Strainer for gas

Brass body according to EN 12165, threaded sockets on both sides, suitable for gas installations according to DIN-DVGW G 260 table. Nominal pressure PN 5, operating temperature - 20 °C to + 60 °C

Available in DN 15 (1 **2319** 01), DN 20 (1 **2319** 02) and DN 25 (1 **2319** 03)



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