HERZ - MODUL BALL VALVE FOR STAINLESS STEEL DISTRIBUTOR

Data sheet 1 22XX X3 Issue 0720

Dimensions





1 2224 03 (13)

1 **2205** 13 (23)

Order Nr.	DN	Handle	PN [bar]	G [in]	L [mm]	L1 [mm]	L2 [mm]	A [mm]	H [mm]	Sw [mm]	Sw1 [mm]	Weight [kg]
1 2224 03	25	red	25	G1"	103	14,5	79,5	75	56	38	46	0,77
1 2224 13	25	blue	25	G1"	103	14,5	79,5	75	56	38	46	0,77
1 2205 13	25	red	25	G1"	106	16	/	75	56	39	46	0,68
1 2205 23	25	blue	25	G1"	106	16	/	75	56	39	46	0,68

Material and construction

Body: forged brass acc. to EN 12165, nickel plated, CW617N forged brass acc. to EN 12165, hollow, hard chrome plated, CW617N Ball: Spindle: machined brass acc. to EN 12164, nickel plated, CW614N Sealing nut: machined brass acc. to EN 12164, CW614N Handles: Aluminium alloy: short, red (RAL 3020) Aluminium alloy: short, blue (RAL 5017) Ball seals: PTFE Spindle seals: PTFE EPDM Connection seals: Internal threaded connectors: acc. to ISO 228-1

Operating data

Max. operating pressure:PN 25 barMin. temperature:-30 °C (water 0,5 °C)Max. temperature:150 °C (water up to 110 °C - no steam)

Medium:

Heating water quality according to ÖNORM H5195 or VDI-Standard 2035. The use of ethylene or propylene glycol in a mixing ratio 25- 50% is allowed. Please refer to manufacturers documentation when using ethylene glycol products for frost and corrosion protection. HERZ ball valve for heating and chilled water is not suitable for usage of agressive medium (such as: acids, alkalis, combustible and explosive gases) because it can destroy sealing components.



Field of application

HERZ ball valves for underfloof heating systems have to be used as shut off elements. They are most commonly used in underfloor heating systems. If the inlet and outlet connections are positioned on the bottom side of the HERZ heat distribution box (1 9412 XX) and the connections have to be diverted directly to the underfloor manifold use angeled ball valve (1 2224 X3). If the inlet and outlet connections are positioned on the side of the HERZ heat distribution box (1 9412 XX) and the connections do not have to be diverted directly to the underfloor manifold use straight ball valve (1 2205 X3). HERZ ball valves for underfloof heating systems have integrated sealing on the thread (O-ring) which allows simple installation directly on the underfloor manifold housing (without using additional sealing material – Teflon ribbon...). Ball valves are available with red and blue handle. Usage of the red handle on inlet connection and ball valve with blue handle allows easier recognition of the flow direction in the system.

Assembly instruction

Threads of the pipe have to be coated with a suitable sealing material (spinning material, teflon ribbon, sealing paste). There should not be excess of sealing material on the pipe because it can damage the thread. The ball valve with internal thread (Sw) is screwed onto the pipe. The pipes have to be correctly aligned, so the valve is not loaded with a bending moment. When using cooper or plastic pipes take into account pressure and temperature limits of used material. Free turning nut connector with external thread should be screwed in to the pipe or in housing of the manifold for underfloor heating but with a suitable torque. After separately mounted the housing of the valve and free turning nut connector with O-ring connect these pieces together (Sw1). For assembly, use a suitable assembly tool that adapts to valve end connections (Sw, Sw1). The ball valve can be mounted in any position: horizontal, vertical or upside-down. Following assembly, the connections of ball valve must be checked for water-tightness by the installer. All engineering standards and recognized regulations must be adhered by these specialist staff. If there are impurities in the medium (water too hard, dust, etc.) there should be a filter installed, in other case the impurities can damage the seals in the valve.

🛛 Brass

HERZ uses top-quality brass that responds to the latest European norms EN 12164 and EN 12165. Components of HERZ products are made from brass due to its good strenght, excellent corrosion resistance and variety of other properties.

Pursuant to Article 33 of the REACH Regulation (EC No. 1907/2006), we are obliged to point out that the material lead is listed on the SVHC list and that all brass components manufactured in our products exceed 0.1% (w / w) lead (CAS: 7439-92-1 / EINECS: 231-100-4). Since lead is a component part of an alloy, actual exposure is not possible and therefore no additional information on safe use is necessary.

Function principle

Inspect the position of the handle to see whether the ball valve is opened or closed. It is opened if the handle is aligned with the pipe and it is closed if the handle is positioned perpendicularly to the pipe. Open or close the ball valve byrotating the handle for 90°.

Maintenance instruction

When the ball valve is installed, it does not require any special maintenance. It is recommended to close and open the ball valve periodically (at least twice a year, every 6 months).

Disposal instruction

The disposal of HERZ ball valves must not endanger the health or the environment. National legal regulations for proper disposal of the HERZ ball valves have to be followed.

Labels on ball valve





🖸 Diagrams



	Angled	Straight
DN	25	25
Kv [m³/h]	11,4	55

Kv: Outflow characteristic (m3/h) - is the flow of water at temperature 15,5 °C, a pressure drop of 1 bar (100 kPa) and a fully open valve

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☑Example of system with HERZ products SERVICE VALVE 2105 02000000000 PUMPFIX SOLAR 4513 1MV HERZ Sanitary taps \bigcirc TO 101 PUMPFIX DIREKT 4510 Pressure Reducer PUMPFIX DISTRIBUTOR 4501 ن ال 1 PUMPFIX MIX 4511 • **90** Ô. ANGLED BALL VALVES • 0-0 3 HERZ STAINLESS STEEL MANIFOLD PUMPFIX CONSTANT 4514 KRAS 4500 -4 0 0 ų ilc Boiler Group $\overline{\mathcal{O}}$