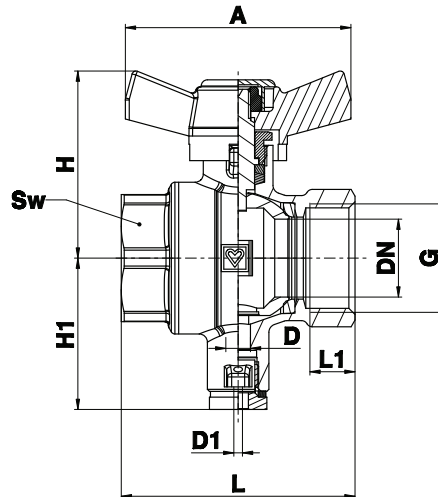


## HERZ - BALL VALVE with temperature sensor connection

Data sheet 1 2202 8X Issue 1120

### ☑ Dimensions



Order Nr.	DN	G [in]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	D [mm]	D1 [mm]	A [mm]	Sw [mm]	Weight [kg]
1 2202 81	15	1/2"	51	10	42	37	6	2,1	55	25	0,185
1 2202 82	20	3/4"	57	11	45,6	37	6	2,1	55	31	0,261
1 2202 83	25	1"	73	16	56	37	6	2,1	75	39	0,442

### ☑ Material and construction

Body:	forged brass acc. to EN 12165, nickel plated, CW617N
Ball:	forged brass acc. to EN 12165, hollow, full bore, hard chrome plated, CW617N
Spindle:	machined brass acc. to EN 12164, CW614N
Handles:	T-handle, red, silumin
Ball seals:	PTFE
Spindle seals:	PTFE
Internal threaded connectors:	acc. to ISO 228-1

### ☑ Operating data

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

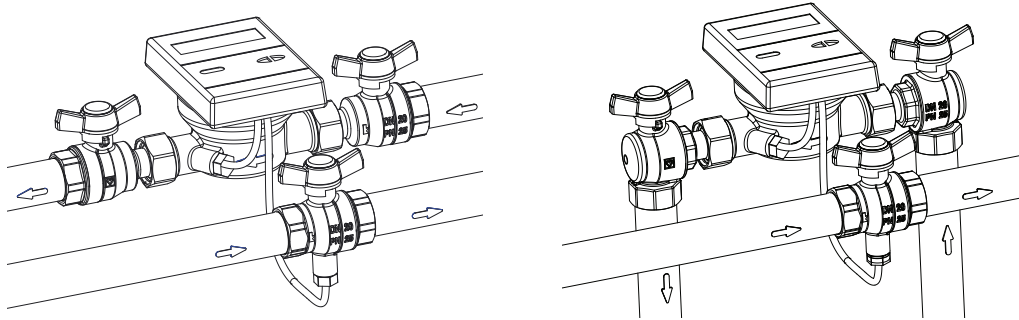
#### Medium:

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 aggressive medium (such as: acids, alkalis, combustible and explosive gases) because it can destroy sealing components.

### ☑ Field of application

HERZ ball valves have to be used as shut off elements. Ball valves with temperature sensor connection can be used in heating installations in combination with heat meters. Ball valve allows the system to be flushed correctly before installing metering equipment. If the ball valve is closed the temperature sensor can be replaced without needing to drain the heating system. In the open position the medium measured flows around the sensor. This way changes in temperature can be detected quickly and reliably. Before installing the temperature sensor unscrew the screw M10 and tighten the temperature sensor in valve. Ball valve can be sealed with wire and lead when using the valve in heating installations applications.

Example of using ball valve with temperature sensor connection in combination with Herz ball valves:



**☑ Assembly instruction**

The 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 thread (G) is screwed onto the pipe. The pipes have to be correctly aligned, so the valve is not loaded with a bending moment. When using copper or plastic pipes take into account pressure and temperature limits of used material. When assembling, use a suitable assembly tool that adapts to valve end connections (Sw). 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 strength, 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 by rotating the handle for 90°.

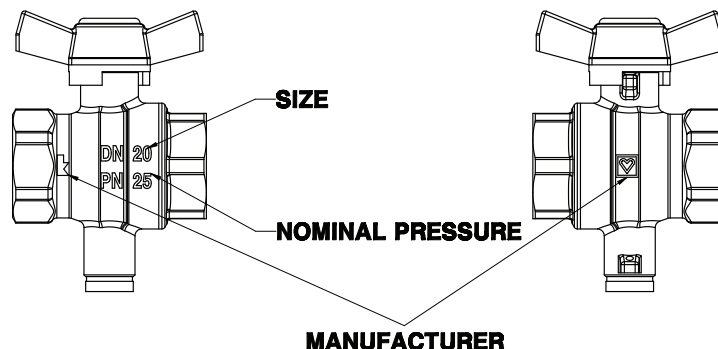
**☑ Maintenance instruction**

According to EN 806-5 (point 6. Operation) valves should always be in their fully opened or closed position and actuated at regular intervals to ensure they remain operational. Therefore HERZ Ball valves should be closed and opened periodically (at least twice a year, every 6 months). This prevents the ball valve from blocking, reduces sediment deposition and reduces the possibility of corrosion inside the valve.

**☑ 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**



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