

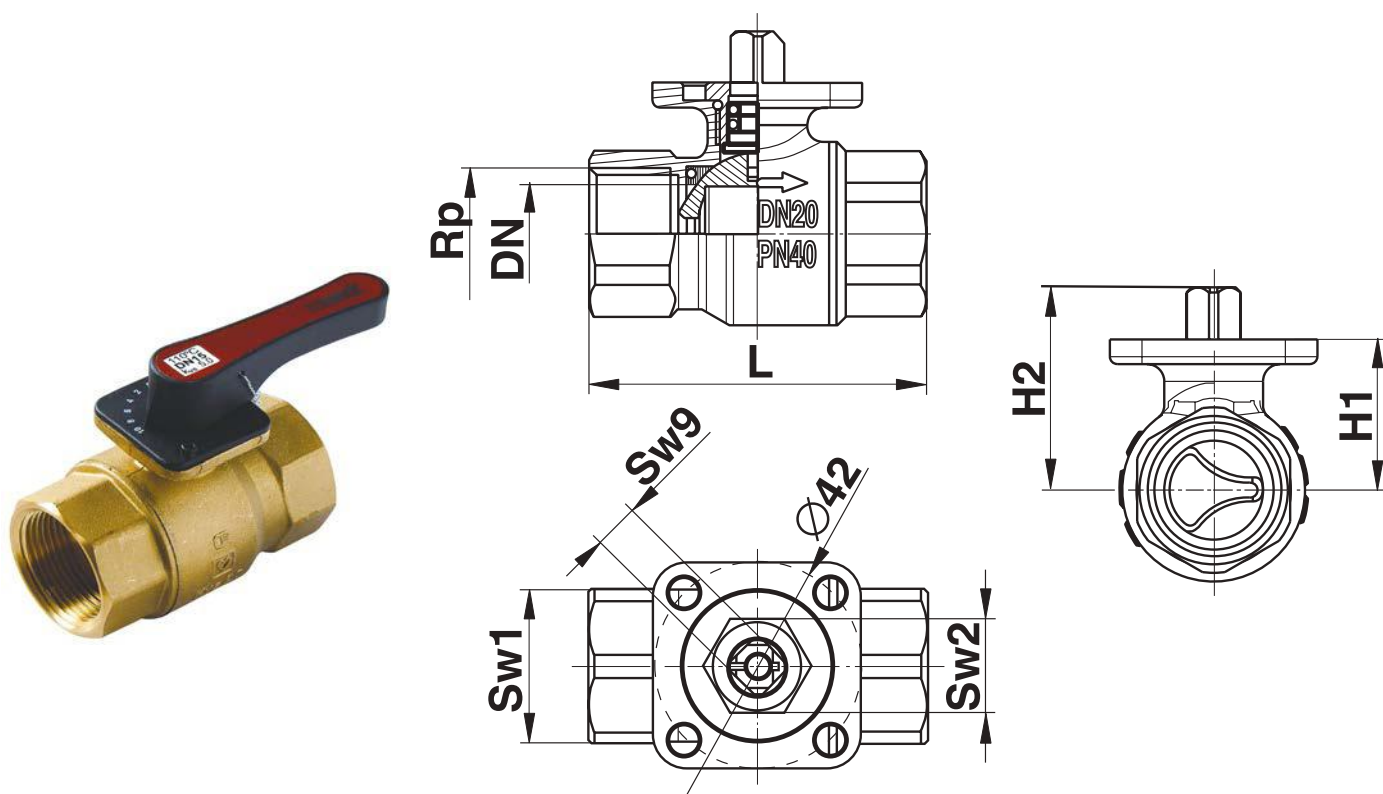
HERZ Control Ball Valve

With linear characteristics



☑ Dimensions in mm

Data sheet for 2117, Issue 0619



Order Number		DN	PN	Rp	L	H1	H2	SW1	SW2	Kvs	W [kg]	
Without Handle	With Handle										2117 0x	2117 1x
1 2117 01	1 2117 11	15	40	1/2	60	27.5	38	25	19	5	0.252	0.283
1 2117 02	1 2117 12	20	40	3/4	68	30.5	41	31	19	8	0.362	0.393
1 2117 03	1 2117 13	25	40	1	81	38	48.5	41	20	12.5	0.67	0.701
1 2117 04	1 2117 14	32	25	5/4	95	41.5	52	51	20	20	1.088	1.119
1 2117 05	1 2117 15	40	25	6/4	106	47	57.5	55	20	32	1.494	1.525
1 2117 06	1 2117 16	50	25	2	127	54.8	65.3	70	20	50	2.613	2.644

☑ Handle

The handle 1 2100 90 can be ordered separately. It fits to all dimensions from DN15 to DN50. It is used when the valve does not need an actuator.



☑ Material

Body	DZR copper alloy (CW602N) acc. to EN 12420
End connections	DZR copper alloy (CW602N) acc. to EN 12420
Ball	DZR copper alloy (CW602N), V - shape bore, machined to a micro smooth finish, chrome plated
Ball seat	Teflon (PTFE) with O-Ring (EPDM)
Spindle	DZR copper alloy (CW614N)
Spindle sealing	O-Ring double (EPDM)
Spindle seat	Teflon (PTFE)
Connections	Female threads acc. to ISO 7-1

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Operating Data

Maximum operating pressure	PN 40 from DN15 to DN25, PN 25 from DN32 to DN50
Operating temperature	- 10 °C to 110 °C
Medium	cold and hot water, water with max. 50% volume of glycol
Angle of rotation (Spindle)	90° Torque (at nominal voltage): < 8 Nm

Spare parts

- 1 7712 33 Actuator, 2/3-point, 230Vac.
- 1 7712 35 Actuator, modulating, 24Vac/dc.

Spare parts have to be ordered separately.

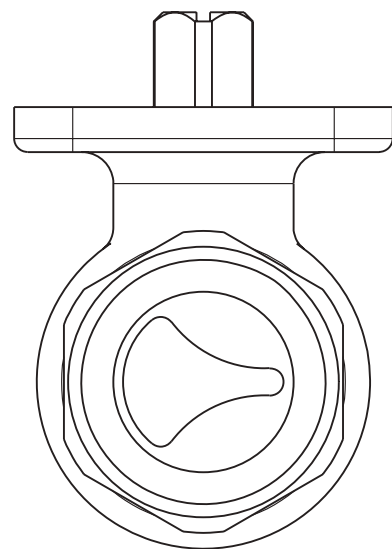
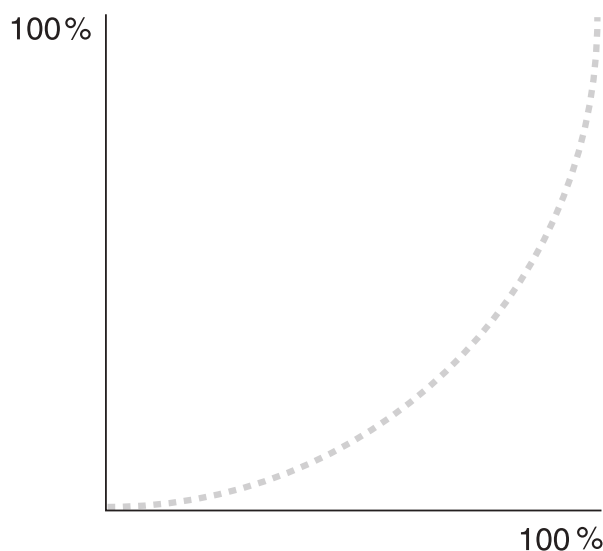
Properties

HERZ two-port ball valve with internal thread for precise control, without leakage.
Control ball valve for continuous control of cold water, hot water or air in closed circuits.
Nominal pressure :40 bar
Nominal size from: DN15 to DN50
Ball with linear characteristic
Spindle with large sliding surface and Teflon sealing ring
Highest ratio: 500:1
Low torque due to the collar sealed with O-Ring

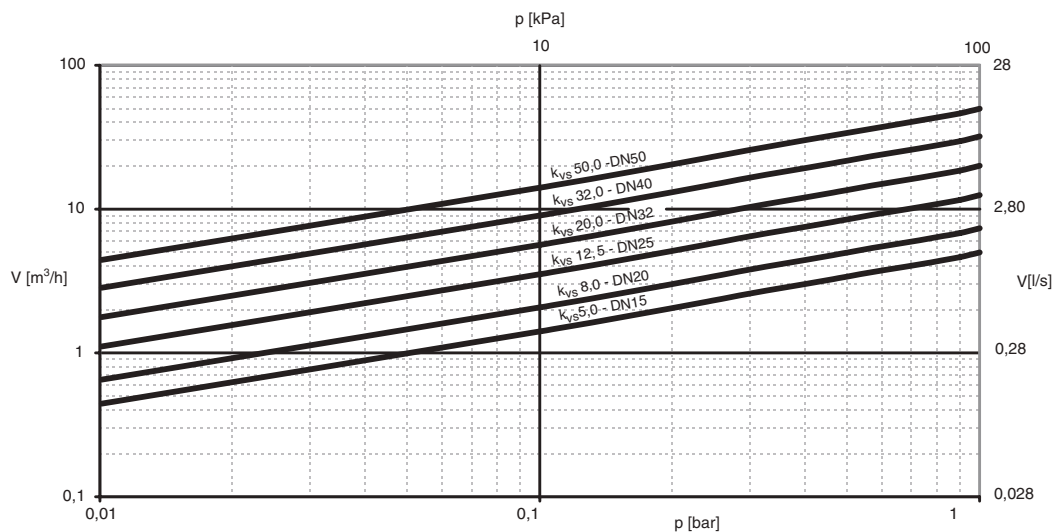
Description

The HERZ-control valve is characterized with high reliability and precision. The spindle of the ball valve is connected to the axle of the drive automatically. The ball is made of DZR copper alloy and regulates a linear flow in the control. This is realized by means of a profiled orifice in the ball. The seat seal is provided by a Teflon collar sleeve insert. EPD M O - Rings are inserted behind these sleeves. These O-Rings allow the ball and both collars a small axial movement, which realizes a high density and low torques. The spindle is sealed by two O-Rings. O-Rings cannot be replaced.

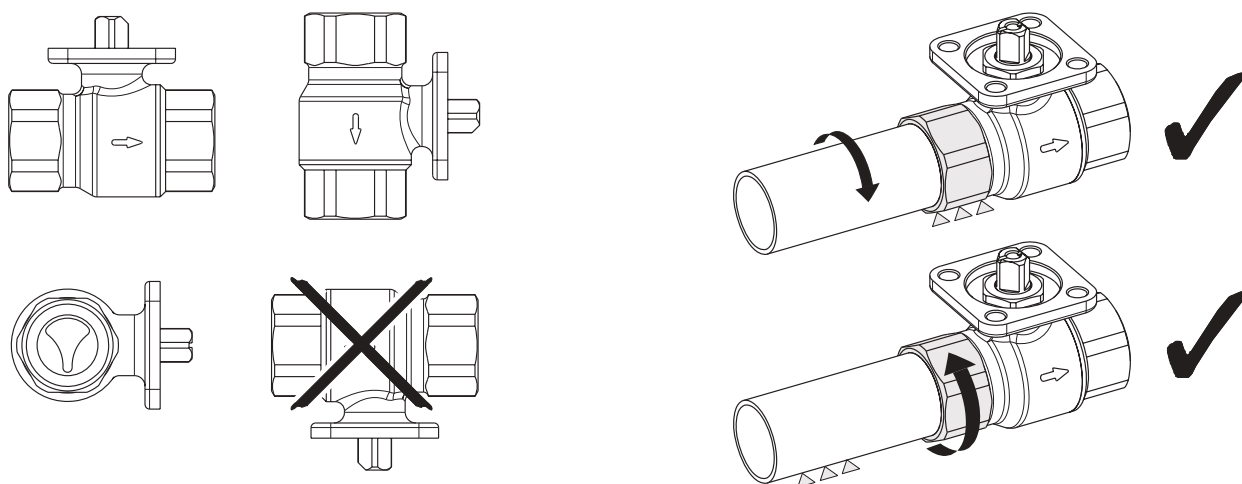
Characteristics



Flow Diagram



Installation



It is advised to install a HERZ strainer before the ball valve.

