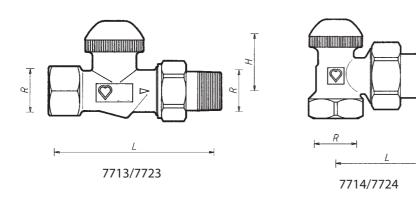
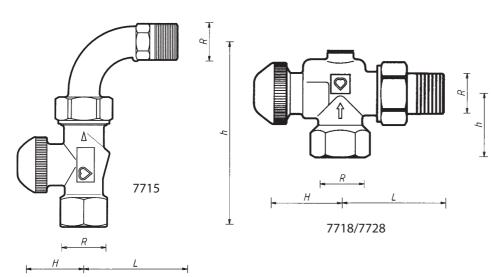
## HERZ-TS-90-kv

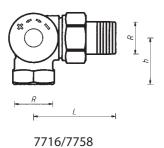
Thermostatic Valves with Fixed ky-Values

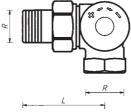
Standard Sheet for 7713-7718 Edition 1000 (0999)





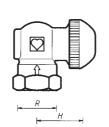








7717/7759



ArtNo.	Designation	DN	R	Ø	L	н	h
7713 7723	Straight valve EN 215, series D	15	1/2"	15	95	27	_
7714 7724	Angle Valve EN 215, series D	15	1/2"	15	58	23	26
7715	Straight valve with elbow	15	1/2"	15	54	27	107
7716 7758	3-axis valve "AB"	_	1/2"	15	53	26	31
7717 7759	3-axis valve "CD"	_	1/2"	15	53	26	31
7718 7728	Reverse Angle Valve	_	1/2"	15	55	35	29

## Dimensions in mm

We reserve the right to make modifications necessitated by technological progress.

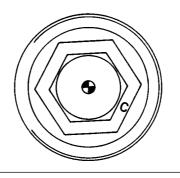
## **HERZ Armaturen**

Richard-Strauss-Straße 22 · A - 1230 Wien



The different k<sub>V</sub>-inserts are marked by a letter code at the upper part and by colour rings at the valve exterior. The k<sub>V</sub>-inserts can be changed under pressure by means of the HERZ changing

k <sub>v</sub> -value	Article Number	Letter	Colour Ring
0.06	1 <b>6365</b> 69	В	blue
0.12	1 <b>6365</b> 79	С	green
0.25	1 <b>6365</b> 89	D	yellow
0.5	1 <b>6365</b> 99	Е	white
0.6	1 <b>6390</b> 91	none	none



Markings of Valves and ky-Inserts

All models are nickel plated with a white screw-cap and are universal models with special socket for threaded pipe and compression union.

All valves can be supplied with 5 different ky-inserts.

When placing orders add the figure corresponding to the kv-value identification character to the article number

An example: HERZ-TS-90, straight valve with  $k_V$  0.06 = Art.-No. 7713 B = order number 17713 69.

Artikel-No.	R	Design Type	Order No.	Identification character				
				В	С	D	E	F
7713	1/2"	Straight valve EN 215, series D	1 7713	69	79	89	99	
7723			1 7723					96
7714	1/2"	Angle valve EN 215, series D	1 <b>7714</b>	69	79	89	99	
7724			1 <b>7724</b>					96
7715	1/2"	Straight valve with elbow	1 <b>7715</b>	69	79	89	99	96
7716	1/2"	3-axis valve "AB"	1 <b>7716</b>	69	79	89	99	
7758			1 <b>7758</b>					91
7717	1/2"	3-axis valve "CD"	1 <b>7717</b>	69	79	89	99	
7759			1 7759					91
7718	1/2"	/2" Reverse Angle Model	1 7718	69	79	89	99	
7728			1 7728					91

Models

Order numbers

Maximum operating pressure: 110 °C Maximum operating temperature 10 bar

Hot water purity in conformity with ÖNORM H 5195 or VDI-guideline 2035.

When using HERZ compression unions for copper and steel pipes, observe the permissible temperatures and pressures as specified in EN 1254-2:1998 Table 5. A maximum operating temperature of 80 °C and maximum operating pressure of 4 bar applies for plastic pipe connections, if permitted by the pipe manufacturer.

**Operating Data** 

**Compression Union** 

Use clean heating water only in order to prevent clogging of the apertures. A fine filter and/or suspended particle separator must be provided by the customer.

Water heating systems, that guarantee exact limitation and adjustment of the flow rate to the individual radiator.

Instructions for Installation

**Field of Application** 

Iron pipe connection 6210 or iron elbow pipe connection 6251, cone seal, fitted

**Radiator Connection** 

		the HERZ assembly key 6680 be used.	Radiator Connection
To be us	sed instead of th	ne radiator connection	Other
6210	1/2"	Iron pipe connection, lengths 26 mm and 35 mm	Connecting Options
6211	1/2"	Reducing connection, 1/2" x 3/8"	٠.
6218	1/2"	Long threaded bush, without nut, can be shortened to compensate for differences in structural dimensions, lengths 39, 42 and 76 mm	Please refer to the HERZ Catalogue for
6218	1/2"	Threaded bush, without nut, lengths 36, 48 and 76 mm	order numbers.
6235	1/2"	Soldering connection for pipe external diameters 12, 15 and 18 mm.	order ridifibers.
6274	G 3/4	Compression union for copper and thin-walled steel pipes, pipe external diameters 8, 10, 12, 14, 15, 16, 18 mm	
6275	G 3/4	HERZ compression union with soft seal for copper and thin-walled steel pipes, particularly suitable for hard special steel pipes and pipes with hard-galvanised surfaces. For pipe external diameters 12, 14, 15 mm.	
6098	G 3/4	HERZ compression union for PE-X-, PB and plastic composite pipes.	
For use	on the socket s	ide of the valve:	
6219	1/2"	Reduction socket, brass, for connecting pipe and valve, female thread (pipe) x male thread (valve) 1" x 1/2", 11/4" x 1/2".	
6066	M 22 x 1,5	Plastic pipe connection for PE-X-, PB and plastic composite pipes, for use with adapter 1 <b>6272</b> 01 (R 1/2 x M 22 x 1,5)	
6098	G 3/4	Plastic pipe connection for PE-X, PB and plastic composite pipes, for use with adapter 1 <b>6266</b> 01 (R 1/2 x G 3/4).	
For pipe	dimensions of	plastic pipe connections please refer to HERZ catalogue.	

The universal models are equipped with special sockets permitting connection of a threaded pipe or **Pipe Connection** of a calibrated soft-steel or copper pipe, the latter by means of a compression union. The com-**Universal Models** pression Union must be ordered separately. Use adapter, Art. No. 6272 between valve and compression with valves for external pipe diameters 10, 12, 14, 16 or 18 mm. Pipe diameter Ø D mm 10 12 15 18 Valve 1/2' Order No. 1 **6272** 01 1 **6272** 01 1 6272 01 1 **6272** 01 1 **6272** 11 Adapter 1 **6284** 00 | 1 **6284** 01 1 **6284** 03 | 1 **6292** 01 1 **6284** 05 1 **6289** 01 Compr. Union Order No. We recommend use of support sleeves for the installation of soft steel or copper pipes with compression unions. For perfect installation, it is imperative to lubricate the thread of the locking nut (male thread and female thread) as well as the olive itself with silicon oil. We refer to our instructions for installation Changing the Upper Part of a Thermostatic Valve **Special Design** The upper part of the HERZ thermostatic valve can be changed under pressure using the HERZ **Features** changing tool for the purpose of: Equipping the valve with another thermostatic valve upper part with fixed, stepped k<sub>V</sub>-values or with pre-adjustable upper part. This allows volume flows through the radiator to be individually adjusted to requirements. Cleaning the seat seal at the spindle and/or changing the upper part of the valve. Thus any problems with radiator valves caused e.g. by foreign sustances such as dirt, welding and soldering residues can be easily resolved. When using the valve with the new upper part follow the instructions enclosed with the HERZ changing tool. An O-Ring is used as a spindle seal. It is located in a brass chamber which can be changed during Spindle Seal operation. The O-Ring keeps maintenance requirements at a minimum and permits smooth valve operation over a long period of time. Changing the O-Ring 1. Dismantle the HERZ thermostatic and/or the HERZ-TS-handwheel. 2. Then unscrew the O-Ring chamber including the O-Ring and replace it with a new one. When doing this use a wrench to hold the upper part. During dismantling the valve is completely open and therefore sealed tight. However, a few drops of water may leak out. HERZ-TS-90 3. For re-assembly, follow the above toward upstream steps in reverse sequence. When installing O-Ring-Chamber the HERZ-TS handwheel, turn to make sure that the valve closes. Article number for O-Ring set: 1 6890 00 The screw cap is for operation during the installation phase (pipe flushing). The thermostatic valve is **HERZ-Thermostatic Valve** formed by removing the screw cap and screwing in the HERZ thermostatic head without draining the heating system. **Nominal Lift** Setting the nominal lift with the screw cap: On the knurled part of the circumference of the screw cap there are two setting marks (webs) in alignment with the "+" and "-" marks. 1. Close the valve by turning the screw cap clockwise. 2. Mark the position corresponding to the setting mark "+" 3. Turn the screw cap anti-clockwise until the setting mark "-" is at the position marked under item 2. The lower part of the thermostatic valve is incorporated into the radiator intake with the flow in the di-Installation rection of the arrow (arrow on the valve body). The HERZ thermostatic head should be in a horizontal position if possible in order to permit optimum room temperature control with minimum interference. Under no circumstances should the HERZ thermostatic head be exposed to direct sunlight or to the Important for Installation effects of equipment emitting relevant quantities of heat, e.g. TV sets. If the radiator is covered by curtains this will lead to the formation of a heat accumulation zone in which the thermostat cannot properly sense the room temperature and consequently cannot control it. In such cases, use the HERZ thermostat with remote sensor or the HERZ thermostat with remote adjustment. For detailed information on the HERZ thermostats consult the individual standard sheets. After the end of the heating period open the valve completely by turning it in an anti-clockwise **Summer Setting** direction to prevent dirt deposits at the valve seat. **HERZ-TS** In case that the lower part of a HERZ thermostatic valve is not equipped with a HERZ thermostatic head the HERZ-TS handwheel will replace the screw cap. Handwheel During assembly follow the enclosed instructions. 1 6680 00 HERZ Assembly key for connections Accessories 1 6807 90 HERZ-TS-90 Assembly key 1 **7780** 00 HERZ Changing tool for thermostat upper parts 1 **7102** 80 HERZ-TS-90 Handwheel, Series 7000 with pre-setting and locking function. Handwheel 1 **9102** 80 HERZ-TS-90 Handwheel, Series 9000 "Design" 1 6365 Thermostatic upper part with fixed kv-values. Please refer to the HERZ catalogue for **Spare Parts** 

order numbers

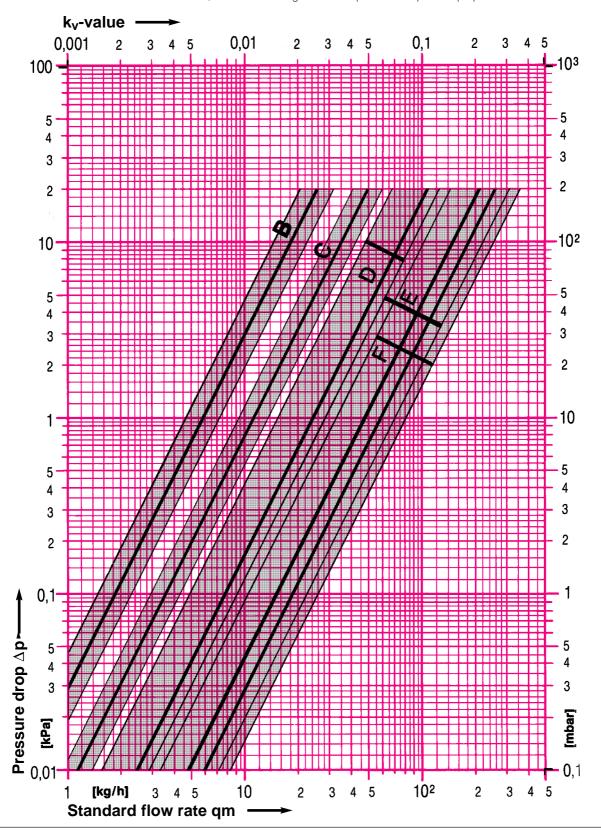
HERZ-TS-90 O-Ring set

1 6890 00

HERZ Standard Diagramm	HERZ-TS-90-k <sub>V</sub>		
Art. No. 7713 - 7718	Dim. DN 15 R = 1/2"		

Pressure drop diagram with kv-inserts 6365 B-F

The thick central lines show the pressure drop at 2 K proportional band. The thin lines to the left show the value at 1 K, the lines to the right show the pressure drop at 3 K proportional band.





reserve the right to make modifications.

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