HERZ-Thermostatic and Return Valves "DE LUXE"

Standard Sheet for

DE LUXE

Edition 1000 (0999)

Valve Series

"DE LUXE"

This series consists of HERZ radiator thermostats, HERZ-TS-90 thermostatic valves and HERZ return valves. These components all have a special smooth coating. A separate standard sheet is available for HERZ thermostatic heads DE LUXE.



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Explanations

Universal Models

Radiator connection with cone seal, special socket for threaded pipe and compression union, R = 1/2", with screw cap. Compression union **6292** for pipe external diameter 15 mm with cover sleeve to be ordered separately.

Models with Compression Union

Radiator connection with cone seal R = 1/2", pipe connection with male thread M 22 x 1.5 for compression union, with crew cap and compression union cover. Compression union **6284** for pipe external diameters 10–16 mm to be ordered separately.

		Universa	al Models		
Colours	Straight valve	Angle model	Reverse angle model	Valve to the left of radiator	Valve to the right of radiator
Chrome	1 7923 41	1 7924 41	1 7928 41	1 7958 41	1 7959 41
Anthracite (ruthenium plated)	1 7923 42	1 7924 42	1 7928 42	1 7958 42	1 7959 42
Gold	1 7923 43	1 7924 43	1 7928 43	1 7958 43	1 7959 43
White (RAL 9010)	1 7923 44	1 7924 44	1 7928 44	1 7958 44	1 7959 44
Black matt	1 7923 49	1 7924 49	1 7928 49	1 7958 49	1 7959 49
		Models with Co	mpression Unio	n	
Colours	Straight valve	Angle model	Reverse angle model	Valve to the left of radiator	Valve to the right of radiator
chrome	1 7923 51	1 7924 51	1 7928 51	1 7958 51	1 7959 51
Anthracite (ruthenium plated)	1 7923 52	1 7924 52	1 7928 52	1 7958 52	1 7959 52
gold	1 7923 53	1 7924 53	1 7928 53	1 7958 53	1 7959 53
White (RAL 9010)	1 7923 54	1 7924 54	1 7928 54	1 7958 54	1 7959 54
Black matt	1 7923 59	1 7924 59	1 7928 59	1 7958 59	1 7959 59

Order Numbers

HERZ Return Valves

Compression Union

"DE LUXE"

HERZ-TS-90

"DE LUXE"

Thermostatic Valves

Universal Models

Radiator connection with cone seal, special socket for threaded pipe and compression union, $R = 1/2^{"}$, with screw cap. Compression union **6292** for pipe external diameter 15 mm with cover to be ordered separately.

Models with Compression Union

Radiator connection with cone seal R = $1/2^{"}$, pipe connection with male thread M 22 x 1.5 for compression union, with crew cap and compression union cover. Compression union **6284** for pipe external diameters 10–16 mm to be ordered separately.

	Universal Models		Universal Models Models with Compr		Universal Models Models with Compre		
Colours	Straight valve	Angle model	Straight valve	Angle model	Order Num		
Chrome	1 3725 41	1 3726 41	1 3725 51	1 3726 51			
Anthracite (ruthenium plated)	1 3725 42	1 3726 42	1 3725 52	1 3726 52			
Gold	1 3725 43	1 3726 43	1 3725 53	1 3726 53			
White (RAL 9010)	1 3725 44	1 3726 44	1 3725 54	1 3726 54			
Black matt	1 3725 49	1 3726 49	1 3725 59	1 3726 59			

For universal models

Compression union cover (coloured), locking nut (male thread) and olive for pipe external diameter 15 mm.

For models with compression union

Locking nut (female thread) and olive for pipe external diameters 10, 12, 14, 15 and 16 mm. The coloured compression union cover is supplied with the valve.

Universal Models		Models with Compression Union			
Colours	Order Numbers	For pipe external diameter	Order Numbers.	Order Numbers	
Chrome	1 6292 41	10 mm	1 6284 00		
Anthracite (ruthenium plated)	1 6292 42	12 mm	1 6284 01		
Gold	1 6292 43	14 mm	1 6284 03		
White (RAL 9010)	1 6292 44	15 mm	1 6284 04		
Black matt	1 6292 49	16 mm	1 6284 05		

Special colours, colour combinations and other metallic coatings can be supplied upon request.

Special Colours

HER	Z-Thermostat- und Rü	cklaufventile "DE L	UXE"	
Max. operating temperature 90 ° Max. operating pressure 10 b Hot water purity in conformity with C	ar	r		
When using HERZ compression unit ratures and pressures as specified i		Compression Union		
Water heating systems.			Field of Application	
Iron pipe connection with cover cap Spare part order number: 1 6210 44		nstalled.	Radiator Connection	
HERZ universal models are equipped with special sockets. They are suitable for connecting either a threaded pipe $R = 1/2^{"}$ or a calibrated soft-steel or copper pipe with an external diameter of 15 mm. The compression union 6292 must be ordered separately. During installation, replace the socket cover ring of the valve with the compression union cover. The compression union cover (two parts) is snapped on after installation of the compression union.			Compression Union Connections Universal Models	
Valves with connections for compre- side and have been prepared for the The compression union cover (two p We recommend use of support slee pression unions. For perfect installa (male thread and female thread) as for installation.	e installation of compression union (parts) is snapped on after installatic eves for the installation of soft steel ation, it is imperative to lubricate th	Valves with Compression Union Connections		
 the nut. Install the connection with cover Unlock the socket sleeve by short Install the valve onto the threader Slide the sleeve onto the valve ar 	d lock it by shortly turning clockwise. I fasten by means of a 27 mm key. Slide the cover ring onto the		Valve Installation	
	HERZ-TS-90	HERZ Return Valve	Order Numbers Accessories	
O-ring set	1 6890 00	1 6810 90		
HERZ changing tool	1 7780 00 For changing the O-ring and/or the thermostat upper part	1 7780 00 For changing the O-ring		
Keys	1 6807 90 For changing the O-ring and/or the thermostat upper part	1 6807 90 For changing the O-ring		
Valve upper part	1 6390 91			
Radiator connection without cover cap and cover sleeve	1 6210 44 1 6210 44		Spare Parts	
Compression union cover for mode	els with compression union connect			
Chrome	1 6280			
Anthracite (ruthenium plated)	1 6280) 52		
Gold	1 6280	53		
white (RAL 9010)	1 6280]		
Black matt	1 6280 59		1	

HERZ-TS-90-Thermostatic Valve "DE LUXE"

 Changing the Thermostatic Upper Part The thermostatic upper part can be removed and/or changing by means of the HERZ-changing tool while the system is under pressure: retrofitting the valve with a thermostatic valve upper part with fixed, stepped kv-value or with an upper part with pre-setting function. This permits regulation of the radiator flow rate to individual requirements; in order to clean the spindle seat seal and/or change the thermostatic upper part. This permits easy removal of defects in thermostatic radiator valves, caused, e.g., by foreign substances such as dirt, welding or soldering residues. Follow the operating instructions supplied with the HERZ-changing tool. 	Special Design Features
 An O-ring is used as a spindle seal. It is located in a brass chamber which can be changed during operation. The O-ring keeps maintenance requirements at a minimum and permits lasting ease of valve operation. Changing the O-Ring Chamber Remove the HERZ-thermostatic head. Unscrew the O-ring chamber with the O-ring and replace with a new one. During this change use a wrench to hold the upper part. After removal of the thermostatic head the valve is completely open and therefore sealed tight towards upstream. However, a few drops of water may leak out. For re-assembly follow the above steps in reverse sequence. 	Spindle Seal
 The screw cap serves for operation during the installation phase (pipe flushing). The thermostatic valve is formed by removing the screw cap and screwing in the thermostatic head without draining the heating system. 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. Close the valve by turning the screw cap clockwise. Mark the position corresponding to the setting mark "+". Turn the screw cap anti-clockwise until the setting mark "-" is at the position marked under item 2. 	HERZ-Thermostatic Valve Nominal Lift
The thermostatic valve is installed in the radiator intake in such a way that the flow comes from the socket side, or the compression union side. Wherever possible, the thermostatic head should be in a horizontal position in order to guarantee optimum room temperature control with minimum interference.	Installation

HERZ Return Valves "DE LUXE"

of Application	while the system	The return valve permits shut off on the radiator return connection. When both, the intake and return valves are shut off (thermostatic head in position "0") the radiator can be removed while the system s under pressure without having to close off the rest of the system. The return valve permits exact control of the water flow rate through the radiator in accordance with the desired heat output, as well as hydraulic balancing of the system.		
ng off the Radiator	ning it clockwise	After removing the cover plate, the valve spindle is screwed in completely by turning it clockwise with a screwdriver. Any pre-setting steps must be set again after opening the valve.		
etting	lve is shut. A value to be set	 Unscrew cover plate. Screw the valve spindle in completely with a screwdriver. After doing so, the valve is shut. Unscrew the valve spindle by means of a screwdriver in accordance with the value to be set (according to diagram); e.g. for pre-setting step 3 make 3 anti-clockwise turns. Re-install cover plate. The valve spindle is secured against unintended unscrewing. 		
e Seal ing the g Chamber	s lasting ease of instructions con-	An O-ring is used as a spindle seal. It is located in a brass chamber which can be changed during operation. The O-ring keeps maintenance requirements at a minimum and permits lasting ease of valve operation. The O-ring chamber is changed by means of the HERZ changing tool. For detailed instructions consult the operating instructions supplied with the HERZ changing tool, item "HERZ-DE-T-90-Changing the O-Ring".		
eal		The seat seal is metallic and therefore wear.resistant.		
amper Security		The valve is protected against unauthorized operation by a plastic screw cap.		
	Valve 3726	Return Valve 3725	Pre-setting step = turns	
ue Table n Valves	le Version 0.12	Straight Version 0.12	0.25	
JXE"	0.3	0.3	0.5	
	0.5	0.5	0.75	
	0.65	0.65	1	
	0.9	0.9	1.25	
	1.15	1.1	1.5	
	1.5	1.35	1.75	
4	1.75	1.55	2	
	2.2 2.5 2.8	1.9 2.1 2.3	2.5 3 open	

HERZ-Standard Diagram

HERZ-TS-90

Art. No. 7923 · 7924

Dim. DN 15 R=1/2"

Valve dimensioning $[\Delta p]$ has to be performed in accordance with the "VDMA-Instruction Sheet for Planning and Hydraulic Balancing of Heating Systems with Thermostatic Radiator Valves" (Δp max. = 0.2 bar). k_v-value 10 0.01 0.1 2 3 5 2 3 4 5 2 3 4 5 4 10³ 100 5 5 4 4 3 3 max.



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