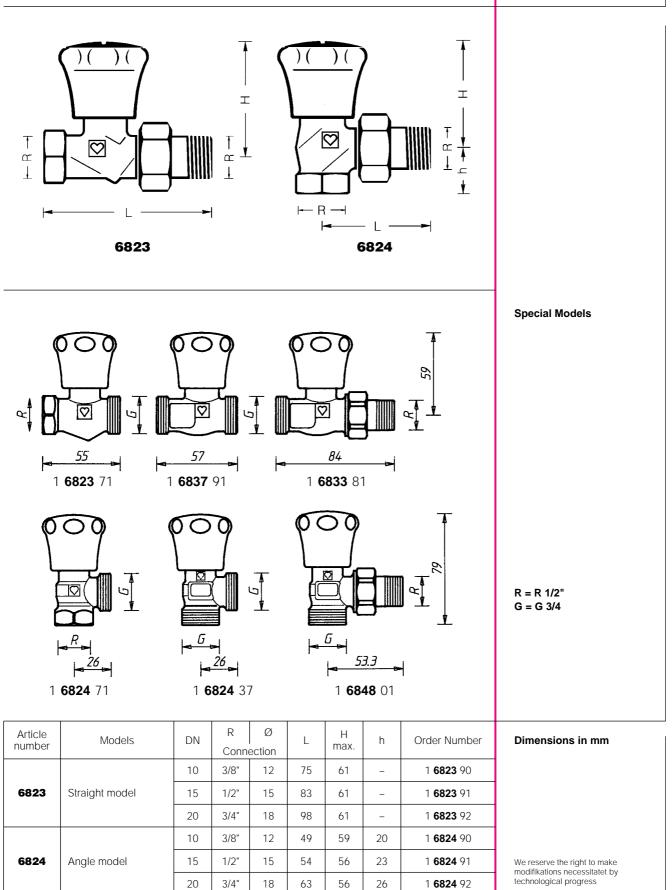
# HERZ-DR-T-90

Radiator Control Valves with Pre-Setting Function by Means of Double Cone, Suitable for Conversion to Thermostatic Operation

Standard Sheet for

6823/6824

Edition 1000 (0999)



HERZ Armaturen

Richard-Strauss-Straße 22 • A-1230 Wien

Jniversal /ersion to			
823 824	3/8" – 3/4" 3/8" – 3/4"	Straight model Angle model	HERZ-DR-T-90
<b>6823</b> 80 <b>6823</b> 81 <b>6823</b> 82	1/2"	Model for public buildings with lockshield Universal models in straight versions	HERZ-DR-T-90 Models for
6824 80 6824 81 6824 82	) 3/8" 1/2"	Angle models for public buildings	Public Buildings
IFR7-DR	-T-90-Valves i	n Special Models, Dimension 1/2"	HERZ-DR-T-90
<b>6823</b> 71 <b>6837</b> 91	Straight mod Straight mod	tel, universal socket x male thread G 3/4 with cone seal tel, 2 x male thread G 3/4, with cone seal tel, radiator connection with cone seal, pipe connection	Special Designs
<b>6824</b> 37	Angle model	I, universal socket x male thread G 3/4", with cone seal I, 2 x male thread G 3/4, with cone seal I, radiator connection with cone seal, pipe connection male thread G 3/4	
6823 6824	1" – 1 <sup>1</sup> /4" 1" – 1 <sup>1</sup> /4"	Straight model Angle model	Standard Models with Threaded Sockets
6823 F 6824 F	1" 1"	Straight model for public buildings Angle model for public buildings et is available for these models.	1" – 11/4"
			Operating Data
	operating tem		Operating Data
	operating pres	ssure 10 bar	
Hot water		IN bar ling to Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035.	
When usir atures an of 80 °C a	quality accord ng HERZ comp nd pressures as	ling to Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035. pression unions for copper and steel pipes, observe the permissible tempe- s specified in EN 1254-2:1998 Table 5. A maximum operating temperature operating pressure of 4 bar applies for plastic pipe connections, if permitted	HERZ-Compression Union
When usir atures an of 80 °C a oy the pip Hot water ion in air	quality accord ng HERZ comp nd pressures as nd maximum o be manufacture heating system	ling to Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035. pression unions for copper and steel pipes, observe the permissible tempe- s specified in EN 1254-2:1998 Table 5. A maximum operating temperature operating pressure of 4 bar applies for plastic pipe connections, if permitted	HERZ-Compression Union Field of Application
When usir atures an of 80 °C a by the pip Hot water ion in air circuit cor ron pipe o	quality accord ng HERZ comp nd pressures as nd maximum o be manufacture heating system conditioning s ntrol valves.	hing to Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035. pression unions for copper and steel pipes, observe the permissible tempe- s specified in EN 1254-2:1998 Table 5. A maximum operating temperature operating pressure of 4 bar applies for plastic pipe connections, if permitted pressure of 4 bar applies for plastic pipe connections, if permitted pressure of a bar applies for plastic pipe connections.	
When usir atures an of 80 °C a by the pip Hot water ion in air circuit cor ron pipe o t is recom	quality accord ng HERZ comp nd pressures as nd maximum o be manufacture heating system conditioning s ntrol valves.	ling to Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035. pression unions for copper and steel pipes, observe the permissible tempe- s specified in EN 1254-2:1998 Table 5. A maximum operating temperature operating pressure of 4 bar applies for plastic pipe connections, if permitted er. Ins where high-precision adjustment and minimum cost are required. Installa- systems for exact adjustment of cooling and heating units, also suitable as 0 with cone seal, installed.	Field of Application Radiator Connection Further
When usir atures an of 80 °C a by the pip Hot water ion in air circuit cor ron pipe o t is recom	quality accord ng HERZ comp nd pressures as nd maximum o be manufacture heating system conditioning s ntrol valves.	<ul> <li>ding to Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035.</li> <li>bression unions for copper and steel pipes, observe the permissible tempes specified in EN 1254-2:1998 Table 5. A maximum operating temperature operating pressure of 4 bar applies for plastic pipe connections, if permitted er.</li> <li>bression where high-precision adjustment and minimum cost are required. Installa-systems for exact adjustment of cooling and heating units, also suitable as</li> <li>0 with cone seal, installed.</li> <li>be the HERZ-assembley key 6680.</li> </ul>	Field of Application Radiator Connection
When usir atures an of 80 °C a by the pip Hot water ion in air circuit cor ron pipe o t is recom nstead of 5210	quality accord ng HERZ comp nd pressures as nd maximum o be manufacture heating system conditioning s ntrol valves.	<ul> <li>bing to Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035.</li> <li>bression unions for copper and steel pipes, observe the permissible tempes specified in EN 1254-2:1998 Table 5. A maximum operating temperature operating pressure of 4 bar applies for plastic pipe connections, if permitted err.</li> <li>bins where high-precision adjustment and minimum cost are required. Installa-systems for exact adjustment of cooling and heating units, also suitable as</li> <li>0 with cone seal, installed.</li> <li>bin HERZ-assembley key 6680.</li> </ul>	Field of Application Radiator Connection Further Connection Options
When usir atures an of 80 °C a by the pip Hot water ion in air circuit cor ron pipe o t is recom nstead of 5210	quality accord ng HERZ comp nd pressures as nd maximum o be manufacture heating system conditioning s ntrol valves.	<ul> <li>ding to Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035.</li> <li>bression unions for copper and steel pipes, observe the permissible tempes specified in EN 1254-2:1998 Table 5. A maximum operating temperature operating pressure of 4 bar applies for plastic pipe connections, if permitted er.</li> <li>bression where high-precision adjustment and minimum cost are required. Installa-systems for exact adjustment of cooling and heating units, also suitable as</li> <li>0 with cone seal, installed.</li> <li>be the HERZ-assembley key 6680.</li> </ul>	Field of Application         Radiator Connection         Further         Connection Options         Please refer to the         HERZ catalogue for
When usir atures an of 80 °C a by the pip Hot water ion in air circuit cor ron pipe o t is recom	quality accord ng HERZ comp nd pressures as nd maximum o be manufacture heating system conditioning s ntrol valves. connection 621 mended to use the radiator co 1/2" 1/2"	<ul> <li>bing to Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035.</li> <li>bression unions for copper and steel pipes, observe the permissible tempes specified in EN 1254-2:1998 Table 5. A maximum operating temperature operating pressure of 4 bar applies for plastic pipe connections, if permitted err.</li> <li>bins where high-precision adjustment and minimum cost are required. Installa-systems for exact adjustment of cooling and heating units, also suitable as</li> <li>0 with cone seal, installed.</li> <li>bin HERZ-assembley key 6680.</li> </ul>	Field of Application         Radiator Connection         Further         Connection Options         Please refer to the
When usir atures an of 80 °C a by the pip Hot water ion in air circuit cor ron pipe o t is recom nstead of 5210 5211 5213 5218	quality accord ng HERZ comp nd pressures as nd maximum o be manufacture heating system conditioning s ntrol valves. connection 621 mended to use the radiator co 1/2" 1/2" 3/8"	<ul> <li>bing to Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035.</li> <li>by pression unions for copper and steel pipes, observe the permissible tempess specified in EN 1254-2:1998 Table 5. A maximum operating temperature operating pressure of 4 bar applies for plastic pipe connections, if permitted errors where high-precision adjustment and minimum cost are required. Installa-systems for exact adjustment of cooling and heating units, also suitable as</li> <li>0 with cone seal, installed.</li> <li>e the HERZ-assembley key 6680.</li> </ul> Description and an male threads G 3/4. Iron pipe connection, 1/2" x 3/8" Reducing connection, 3/8 x 1/2" Long threaded bush, without nut, can be shortened to compensate for differences in structural dimensions, lengths 3/8" x 40: 1/2" x39, 42 and 76; 3/4" x 70 mm Threaded bush, without nut, lengths 36, 48 and 76 mm. Soldering connection	Field of Application         Radiator Connection         Further         Connection Options         Please refer to the         HERZ catalogue for
When usir atures an of 80 °C a by the pip 	quality accord ng HERZ comp do pressures as nd maximum o be manufacture heating system conditioning s ntrol valves. connection 621 mended to use the radiator co 1/2" 1/2" 3/8" 3/8"-3/4"	<ul> <li>bing to Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035.</li> <li>bression unions for copper and steel pipes, observe the permissible tempess specified in EN 1254-2:1998 Table 5. A maximum operating temperature operating pressure of 4 bar applies for plastic pipe connections, if permitted are.</li> <li>bins where high-precision adjustment and minimum cost are required. Installa-systems for exact adjustment of cooling and heating units, also suitable as</li> <li>0 with cone seal, installed.</li> <li>bin HERZ-assembley key 6680.</li> </ul> Donnection and an male threads G 3/4. Iron pipe connection, 1/2" x 3/8" Reducing connection, 3/8 x 1/2" Long threaded bush, without nut, can be shortened to compensate for differences in structural dimensions, lengths 3/8" x 40: 1/2" x39, 42 and 76; 3/4" x 70 mm Threaded bush, without nut, lengths 36, 48 and 76 mm. Soldering connection 3/8" x 12; 1/2" x 12, 15 and 18; 3/4" x 18 mm.	Field of Application         Radiator Connection         Further         Connection Options         Please refer to the         HERZ catalogue for
When usir atures an of 80 °C a by the pip 	quality accord ng HERZ comp do pressures as nd maximum o be manufacture heating system conditioning s ntrol valves. connection 621 mended to use the radiator co 1/2" 1/2" 3/8" 3/8"-3/4" 1/2" 3/8" - 3/4" G 3/4	<ul> <li>bing to Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035.</li> <li>bression unions for copper and steel pipes, observe the permissible tempe- s specified in EN 1254-2:1998 Table 5. A maximum operating temperature pperating pressure of 4 bar applies for plastic pipe connections, if permitted eff.</li> <li>bit swhere high-precision adjustment and minimum cost are required. Installa- systems for exact adjustment of cooling and heating units, also suitable as</li> <li>c) with cone seal, installed.</li> <li>e the HERZ-assembley key 6680.</li> </ul> Donnection and an male threads G 3/4. Iron pipe connection, lengths 26 mm and 35 mm Reducing connection, 3/8 x 1/2" Long threaded bush, without nut, can be shortened to compensate for differences in structural dimensions, lengths 3/8" x 40: 1/2" x39, 42 and 76; 3/4" x 70 mm Threaded bush, without nut, lengths 36, 48 and 76 mm. Soldering connection 3/8" x 12: 1/2" x 12, 15 and 18; 3/4" x 18 mm. Connection elbow for iron pipes, without nut, with cone seal Compression union for copper and thin-walled steel pipes, external pipe diameters 8, 10, 12, 14, 15, 16, 18 mm	Field of Application         Radiator Connection         Further         Connection Options         Please refer to the         HERZ catalogue for
When usir atures an of 80 °C a by the pip 	quality accord ng HERZ comp do pressures as nd maximum o be manufacture heating system conditioning s ntrol valves. connection 621 mended to use the radiator co 1/2" 1/2" 3/8" 3/8"-3/4" 3/8" – 3/4"	<ul> <li>bing to Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035.</li> <li>bression unions for copper and steel pipes, observe the permissible tempess specified in EN 1254-2:1998 Table 5. A maximum operating temperature operating pressure of 4 bar applies for plastic pipe connections, if permitted tr.</li> <li>bins where high-precision adjustment and minimum cost are required. Installassystems for exact adjustment of cooling and heating units, also suitable as</li> <li>c) with cone seal, installed.</li> <li>c) the HERZ-assembley key 6680.</li> </ul> binnection and an male threads G 3/4. Iron pipe connection, lengths 26 mm and 35 mm Reducing connection, 1/2" x 3/8" Reducing connection, 3/8 x 1/2" Long threaded bush, without nut, can be shortened to compensate for differences in structural dimensions, lengths 3/8" x 40: 1/2" x 39, 42 and 76; 3/4" x 70 mm Threaded bush, without nut, lengths 36, 48 and 76 mm. Soldering connection 3/8" x 12; 1/2" x 12, 15 and 18; 3/4" x 18 mm. Connection elbow for iron pipes, without nut, with cone seal Compression union for copper and thin-walled steel pipes, external pipe	Field of Application         Radiator Connection         Further         Connection Options         Please refer to the         HERZ catalogue for
When usir atures an of 80 °C a by the pip 	quality accord ng HERZ comp do pressures as nd maximum o be manufacture heating system conditioning s ntrol valves. connection 621 mended to use the radiator co 1/2" 1/2" 3/8" 3/8"-3/4" 1/2" 3/8" - 3/4" G 3/4	<ul> <li>ing to Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035.</li> <li>pression unions for copper and steel pipes, observe the permissible tempe- s specified in EN 1254-2:1998 Table 5. A maximum operating temperature operating pressure of 4 bar applies for plastic pipe connections, if permitted rr.</li> <li>ns where high-precision adjustment and minimum cost are required. Installa- systems for exact adjustment of cooling and heating units, also suitable as</li> <li>0 with cone seal, installed.</li> <li>e the HERZ-assembley key 6680.</li> </ul> Onnection and an male threads G 3/4. Iron pipe connection, lengths 26 mm and 35 mm Reducing connection, 3/8 x 1/2" Long threaded bush, without nut, can be shortened to compensate for differences in structural dimensions, lengths 3/8" x 40: 1/2" x39, 42 and 76; 3/4" x 70 mm Threaded bush, without nut, lengths 36, 48 and 76 mm. Soldering connection 3/8" x 12; 1/2" x 12, 15 and 18; 3/4" x 18 mm. Connection elbow for iron pipes, without nut, with cone seal Compression union for copper and thin-walled steel pipes, external pipe diameters 8, 10, 12, 14, 15, 16, 18 mm HERZ compression union with soft seal for copper and thin-walled steel pipes. particularly suitable for hard special steel pipes and pipes with	Field of Application         Radiator Connection         Further         Connection Options         Please refer to the         HERZ catalogue for
When usir atures an of 80 °C a by the pip 	quality accord ng HERZ comp do pressures as nd maximum o be manufacture heating system conditioning s introl valves. connection 621 mended to use the radiator co 1/2" 1/2" 3/8" 3/8"-3/4" 1/2" 3/8" - 3/4" G 3/4 G 3/4 h the socket sid	<ul> <li>Ing to Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035.</li> <li>pression unions for copper and steel pipes, observe the permissible tempe- specified in EN 1254-2:1998 Table 5. A maximum operating temperature operating pressure of 4 bar applies for plastic pipe connections, if permitted ar.</li> <li>ns where high-precision adjustment and minimum cost are required. Installa- systems for exact adjustment of cooling and heating units, also suitable as</li> <li>0 with cone seal, installed.</li> <li>a the HERZ-assembley key 6680.</li> <li>nnection and an male threads G 3/4.</li> <li>Iron pipe connection, lengths 26 mm and 35 mm</li> <li>Reducing connection, 3/8 x 1/2"</li> <li>Long threaded bush, without nut, can be shortened to compensate for differences in structural dimensions, lengths 3/8" x 40: 1/2" x 39, 42 and 76; 3/4" x 70 mm</li> <li>Threaded bush, without nut, lengths 36, 48 and 76 mm.</li> <li>Soldering connection 3/8" x 12; 1/2" x 12, 15 and 18; 3/4" x 18 mm.</li> <li>Connection elbow for iron pipes, without nut, with cone seal</li> <li>Compression union for copper and thin-walled steel pipes, external pipe diameters 8, 10, 12, 14, 15, 16, 18 mm</li> <li>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 external pipe diameters 12, 14, 15 mm</li> </ul>	Field of Application         Radiator Connection         Further         Connection Options         Please refer to the         HERZ catalogue for
When usir atures an of 80 °C a by the pip 	quality accord ng HERZ comp nd pressures as nd maximum o be manufacture heating system conditioning s itrol valves. connection 621 mended to use the radiator co 1/2" 1/2" 3/8" 3/8"-3/4" 1/2" 3/8"-3/4" G 3/4 G 3/4	<ul> <li>Ing to Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035.</li> <li>pression unions for copper and steel pipes, observe the permissible tempess specified in EN 1254-2:1998 Table 5. A maximum operating temperature operating pressure of 4 bar applies for plastic pipe connections, if permitted r.</li> <li>ns where high-precision adjustment and minimum cost are required. Installagestems for exact adjustment of cooling and heating units, also suitable as</li> <li>0 with cone seal, installed.</li> <li>a the HERZ-assembley key 6680.</li> <li>nnection and an male threads G 3/4.</li> <li>Iron pipe connection, lengths 26 mm and 35 mm</li> <li>Reducing connection, 1/2" x 3/8"</li> <li>Reducing connection, 3/8 x 1/2"</li> <li>Long threaded bush, without nut, can be shortened to compensate for differences in structural dimensions, lengths 3/8" x 40: 1/2" x 39, 42 and 76; 3/4" x 70 mm</li> <li>Threaded bush, without nut, lengths 36, 48 and 76 mm.</li> <li>Soldering connection 3/8" x 10: 1/2" x 3/9. 42 and 76; 3/4" x 70 mm</li> <li>Threaded bush, without nut, lengths 36, 48 and 76 mm.</li> <li>Soldering connection 3/8" x 12; 1/2" x 12, 15 and 18; 3/4" x 18 mm.</li> <li>Connection elbow for iron pipes, without nut, with cone seal</li> <li>Compression union for copper and thin-walled steel pipes, external pipe diameters 8, 10, 12, 14, 15, 16, 18 mm</li> <li>HERZ compression union for PE-X-, PB and plastic composite pipes.</li> </ul>	Field of Application         Radiator Connection         Further         Connection Options         Please refer to the         HERZ catalogue for
When usir atures an of 80 °C a by the pip 	quality accord ng HERZ comp do pressures as nd maximum o be manufacture heating system conditioning s introl valves. connection 621 mended to use the radiator co 1/2" 1/2" 3/8" 3/8"-3/4" 1/2" 3/8" - 3/4" G 3/4 G 3/4 h the socket sid	<ul> <li>Ing to Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035.</li> <li>Inression unions for copper and steel pipes, observe the permissible tempess specified in EN 1254-2:1998 Table 5. A maximum operating temperature pperating pressure of 4 bar applies for plastic pipe connections, if permitted r.</li> <li>Inswhere high-precision adjustment and minimum cost are required. Installasystems for exact adjustment of cooling and heating units, also suitable as</li> <li>0 with cone seal, installed.</li> <li>a the HERZ-assembley key 6680.</li> <li>Inon pipe connection, lengths 26 mm and 35 mm</li> <li>Reducing connection, 3/8 x 1/2"</li> <li>Long threaded bush, without nut, can be shortened to compensate for differences in structural dimensions, lengths 38" x 40: 1/2" x 39, 42 and 76; 3/4" x 70 mm</li> <li>Threaded bush, without nut, lengths 36, 48 and 76 mm.</li> <li>Soldering connection 378" x 12; 1/2" x 12, 15 and 18; 3/4" x 18 mm.</li> <li>Connection elbow for iron pipes, without nut, with cone seal</li> <li>Compression union for copper and thin-walled steel pipes, external pipe diameters 8, 10, 12, 14, 15, 16, 18 mm</li> <li>HERZ compression union for PE-X-, PB and plastic composite pipes.</li> <li>de of the valve:</li> <li>Reduction socket, brass version, for connecting pipe and valve, female thread (pipe) x male thread (valve)</li> </ul>	Field of Application         Radiator Connection         Further         Connection Options         Please refer to the         HERZ catalogue for

The universal models threaded pipe or a calib The compression union	orated soft	i-steel or c	opper pig						Pipe Connection Universal Models
When using R = 1/2" v Art. No. 6272, between	alves for e valve and	external p I compress	ipe diame sion unior	eters of 1( 1.	), 12, 14,	16 and 1	8 mm us	e adapter,	
Pipe Ø D mm	12	10	12	14	15	16	18	18	
Valve R =	3/8"	I		1/	2"			3/4"	
Adapter Order No.		1 <b>6272</b> 01	1 <b>6272</b> 01	1 <b>6272</b> 01		1 <b>6272</b> 01	1 <b>6272</b> 11		
Compr. Union Order No.	1 <b>6292</b> 00	1 <b>6284</b> 00	1 <b>6284</b> 01	1 <b>6284</b> 03	1 <b>6292</b> 01	1 <b>6284</b> 05	1 <b>6289</b> 01	1 <b>6292</b> 02	
When installing soft-ste of support sleeves. Fo (male and female threa	r perfect i	nstallation	, use silio	con oil to	lubricate	the thread	ecommer d of the lo	nd the use ocking nut	
Pre-setting by means to approximately 1% v Art. No. <b>6800 (yellow s</b> The inside flow restrict adjustable at the pre-se to the effects of foreign	while the t haft) is re- tion cone tting spinc	full main s quired for can be a	spindle lit pre-settin djusted b	ft is availa g. by means	able at a of a pre-	ny time. <sup>-</sup> -setting sp	The pre-s pindle. Th	etting key ie cone is	Pre-Setting
<ol> <li>Remove the handwh</li> <li>Insert the shaft of the against the front are</li> <li>The scale on the key</li> <li>Turning the key spindle with pre</li> <li>Turning the key</li> <li>After adjustment re-i</li> </ol>	e pre-setti a of the sp y shaft mal y head clo e-setting c head cou	ng key into bindle. kes it poss ckwise reo cone. interclocky	o the mair sible to pe duces the vise incre	erform the flow rate ases the f	pindle an following to a minii	d press th pre-settin mum by s	e measur g operatio crewing in	ing sleeve ons: n the inside	Pre-Setting Operation
The spindle seal is an in operation. This O-Rii O-Ring set (20 O-Ring : 	ng guaran	tees minin	num main						Spindle Seal
The following operation the HERZ changing too conversion to thermo spindle seal replace replacement of the u cleaning the valve so The detailed procedure	l: ostatic ope ment ipper part eat	eration of the valu	le	5	s under pr	essure an	d in opera	ation using	Special Design Features
5	$\overline{\mathbf{x}}$								HERZ-Universal Tool Designation of Components
Ľ			(1	) Operati	ing spindl	e			
			2	) Shutoff	device				
開			3	Draining	g valve				
				) Liquid I	ock				
Ц			_						
	(_É	<u>}</u>	(5	) Ball val	ve				
Let the second sec	╤╤╴	┍╴	Ŭ						
Ϋ́				Couplin	ng unit				
Ĺ, Ĺ			—_(Ž	) Union r	nut				
L									

	eld of the model for public buildings serves for locking the control spindle in any desired his way, unauthorized persons cannot operate the valve.	Lockshield Model for Public Buildings
Operation a	and Setting	_
	fastening screw.	
<ol> <li>Remove</li> <li>Turn the</li> </ol>	lockshield. lockshield around and use it to adjust the spindle at any desired position.	
	ockshield in place in such a way that the spindle is not turned and that it meshes with the	
hexagon	socket of the O-Ring nut.	
	fastening screw.	
Locking by I	means of the lockshield does not affect any previous pre-setting steps.	
	he Handwheel with a Lockshield	
The handwl included).	neel of the universal model can be replaced with the lockshield, Art. No. 6512 (screw	
1. Remove	handwheel	
	ckshield as described.	
	90 universal models can be converted to thermostatic operation by installing a HERZ ther- per part and a HERZ thermostat while a heating system is in operation. The thermostatic	HERZ-DR-T-90
	eplaces the HERZ-DR-T-90 valve upper part.	Thermostatic Valves
	g upper parts are available:	
	ermostatic upper part	
<ul> <li>HERZ-Th</li> </ul>	ermostatic upper part with pre-setting function	
• HERZ-Th	ermostatic upper part with fixed kv-values	
For detailed	information on thermostats and upper parts see the HERZ standard sheets.	
	ersion take into account the following:	
0	on should only take place when the valve is mounted on the intake side and so that the	
heating v	vater flows properly.	
	e resistence after conversion is given in the HERZ-standard diagrams for HERZ-TS-90,	
	-90-V, HERZ-TS-98.V and HERZ-TS-90- $k_V$ which is contained in the standard sheets for the $e$ models.	
	Z-thermostatic head should be in a horizontal position in order to ensure optimum room	
	ure control with minimum interference.	
	llation of the HERZ thermostat must be performed according to the HERZ instructions for	
installatio	n.	
1 6365 1 6267 07	HERZ thermostatic upper part with fixed ky-values	Accessories
1 <b>6367</b> 97 1 <b>6367</b> 98	HERZ thermostatic upper part with continuous, concealed pre-setting HERZ thermostatic upper part with continuous, pre-setting readout.	
1 <b>6390</b>	HERZ thermostatic upper part	
	For order numbers please refer to the HERZ catalogue	
1 <b>6680</b> 00	HERZ assembly key for radiator connections	
1 <b>6800</b> 00	HERZ-DR-T-90 pre-setting key	
	HERZ changing tool for thermostatic upper parts	
1 <b>6310</b>	HERZ-DR-T-90 upper part For order numbers please refer to the HERZ catalogue	Spare Parts
1 <b>6510</b> 90	Handwheel with screw disk	
1 <b>6512</b> 90	Lockshield with fastening screw	
1 <b>6810</b> 90	HERZ-DR-T-90 O-ring set	
	ns serve to determine the valve resistance values and show the individual pre-setting	Flow Diagrams
steps.		on Pages 7 – 12
kv- and zeta	values are shown in an overview table on page 6.	k <sub>v</sub> - and Zeta-Values
		on Page 6

O-Ring Replacement	Removal of HERZ-DR-T-90-Valve Upper Part	Conversion to Thermostatic Operation				
Close valve spindle by turning clockwise up to the stop Open valve spindle by turning counterclockwise up to the stop						
Unscrew handwheel disk, remove handwheel						
Slacken O-Ring screw by turning counterclockwise with 18 mm key Slacken upper part by turning counterclockwise with 18 mm key						
Connect the coupling	unit 6 of the HERZ-Tool plus liquid lock 4	with screw connection				
Tig	hten union nut ၇ and shutoff device 2 man	ually				
	Shut draining valve (3)					
	Open ball valve (5)					
Slide operating spir	ndle (1) towards the valve until the hexagon ho at the valve uppe	5				
Unscre	ew O-Ring nut or upper part by turning countercl	ockwise				
Move the operating spindle $(1)$ slowly away from the valve up to the stop. The rubber rings holds the upper part in the holding chuck and in doing so transports it into the liquid lock chamber $(4)$						
Shut ball valve (5)						
Open draining value $(3)$ over a collecting vessel and drain the liquid lock $(4)$						
Unscrew shutoff device 2 by turning counterclockwise and pull the operating spindle 1 plus upper part out of the liquid lock						
Replace the O-Ring screw in the holding chuck with a new one.	Clean valve upper part in the holding chuck or replace with a new one.	Replace valve upper part in the holding chuck with a thermostatic upper part.				
Insert operating spindle (1) plus upper part into the liquid lock and tighten the shutoff device (2) manually by turning clockwise.						
	Shut draining valve $(3)$ and open ball valve $(5)$	)				
Slide the operating spindle (1) slowly in towards the valve up to the stop.						
Install and tighten O-Ring nut by turning clockwise	Install and tighten valve upper part by turning clockwise	Install and tighten thermostatic upper part by turning clockwise				
Open draining value $(3)$ over a collecting vessel and drain the liquid lock $(4)$						
Unscrew the coupling unit $\textcircled{6}$ plus liquid lock $\textcircled{4}$ from the valve						
Tighten O-Ring screw with 18mm key; maximum thigtening torque: 15 Nm	Tighten valve upper part with 18mm key; maximum thigtening torque: 15 Nm	Tighten thermostatic upper part with 18 mm key; maximum thigtening torque: <b>20 Nm</b>				
Install handwheel a	and handwheel disk	Install the thermostatic head				

	HERZ-DR-	T-90-Pre-Setting Va	alues		
	682	3 – 3/8"	6824 – 3/8"		
Pre-Setting Step	k <sub>v</sub> -Value	Zeta-Value with Reference to Pipe According to DIN 2440	k <sub>v</sub> -Value	Zeta-Value with Reference to Pipe According to DIN 2440	
0	0.015	168000	0.015	168000	
1	0.02	95000	0.02	95000	
2	0.037	27700	0.037	27700	
3	0.13	2250	0.13	2250	
4	0.23	720	0.23	720	
5	0.8	59	0.8	59	
6	1.3	22	1.8	12	
7	1.4	20	2.3	7	
8	1.4	20	2.45	6	
	682	3 – 1/2"	6824 – 1/2"		
Pre-Setting Step	k <sub>v</sub> -Value	Zeta-Value with Reference to Pipe According to DIN 2440	kv-Value	Zeta-Value with Reference to Pipe According to DIN 2440	
0	0.015	458000	0.015	458000	
1	0.027	141300	0.027	141300	
2	0.04	64375	0.04	64375	
3	0.15	4577	0.15	4577	
4	0.28	1310	0.28	1310	
5	0.8	161	0.8	161	
6	1.45	49	1.8	32	
7	1.9	29	2.6	15	
8	2	26	3.15	10	
	682	3 – 3/4"	6824 – 3/4"		
Pre-Setting Step	k <sub>v</sub> -Value	Zeta-Value with Reference to Pipe According to DIN 2440	k <sub>v</sub> -Value	Zeta-Value with Reference to Pipe According to DIN 2440	
0	0.022	706600	0.022	706600	
1	0.03	380000	0.03	380000	
2	0.045	168900	0.045	168900	
3	0.13	20236	0.13	20236	
4	0.25	5470	0.25	5470	
5	0.9	422	0.9	422	
6	1.6	134	1.8	166	
7	2	86	2.6	51	
8	2.2	71	3.15	34	

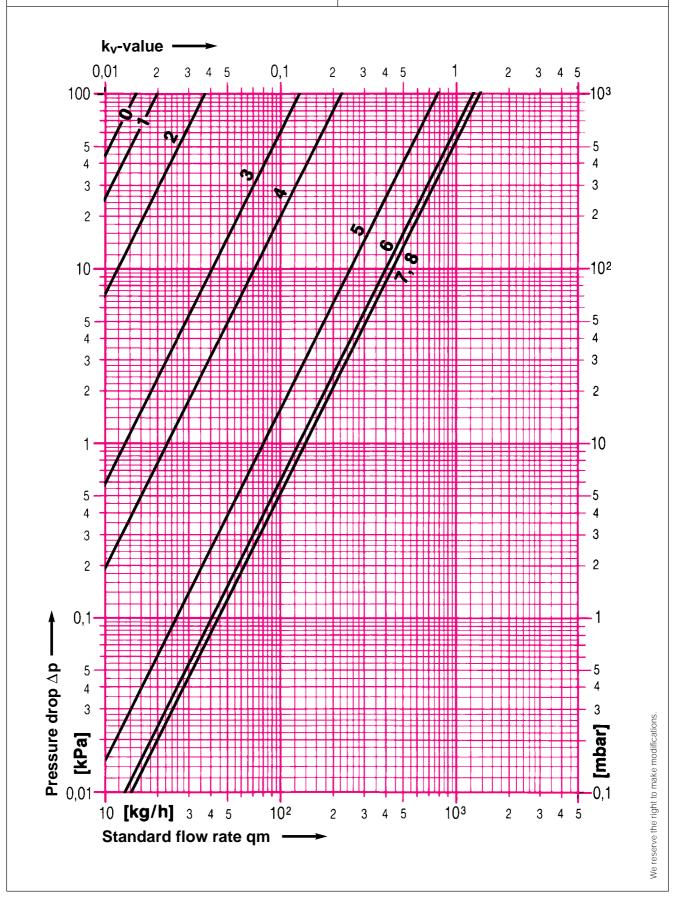
6



#### HERZ-DR-T-90

Art. No. 6823

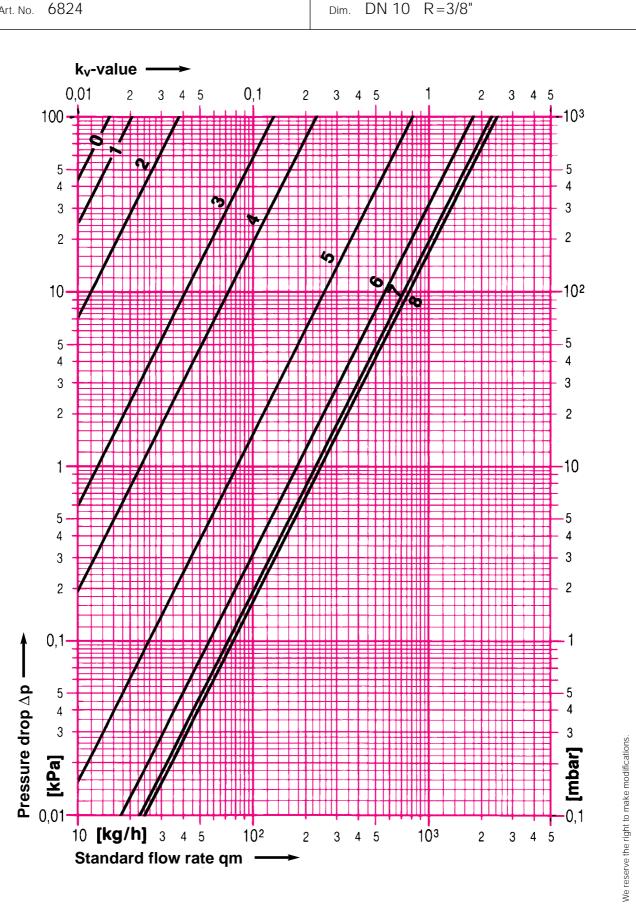
Dim. DN 10 R=3/8"



#### HERZ Armaturen Richard-Strauss-Straße 22 • A-1230 Wien

#### HERZ-DR-T-90

Art. No. 6824



HP

 $\heartsuit$ 

HERZ Armaturen

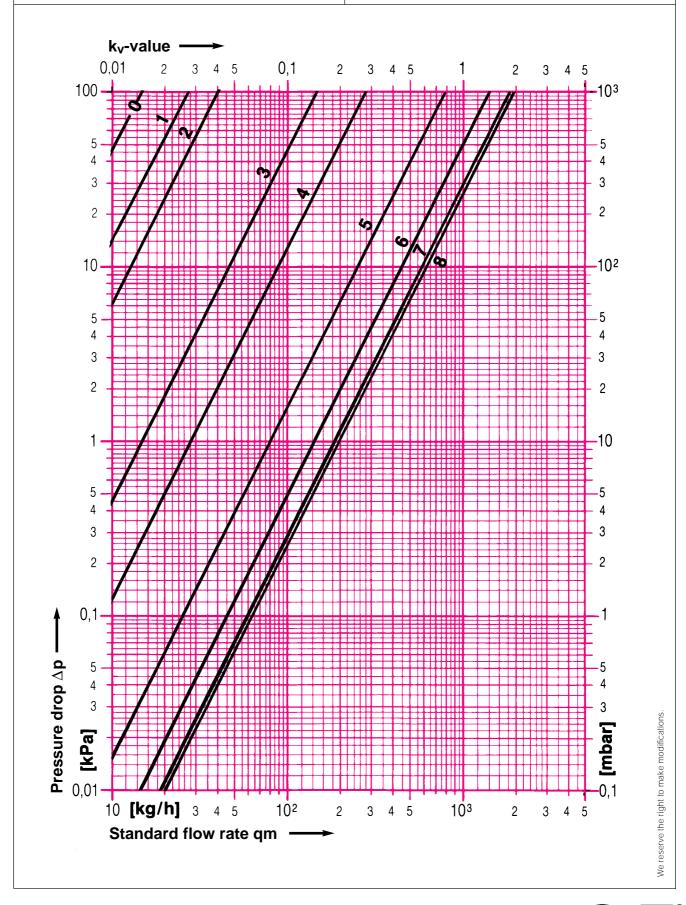
Richard-Strauss-Straße 22 • A-1230 Wien

8

### HERZ-DR-T-90

Art. Nr. 6823

Dim. DN 15 R=1/2"



 $\bigcirc$ 

72

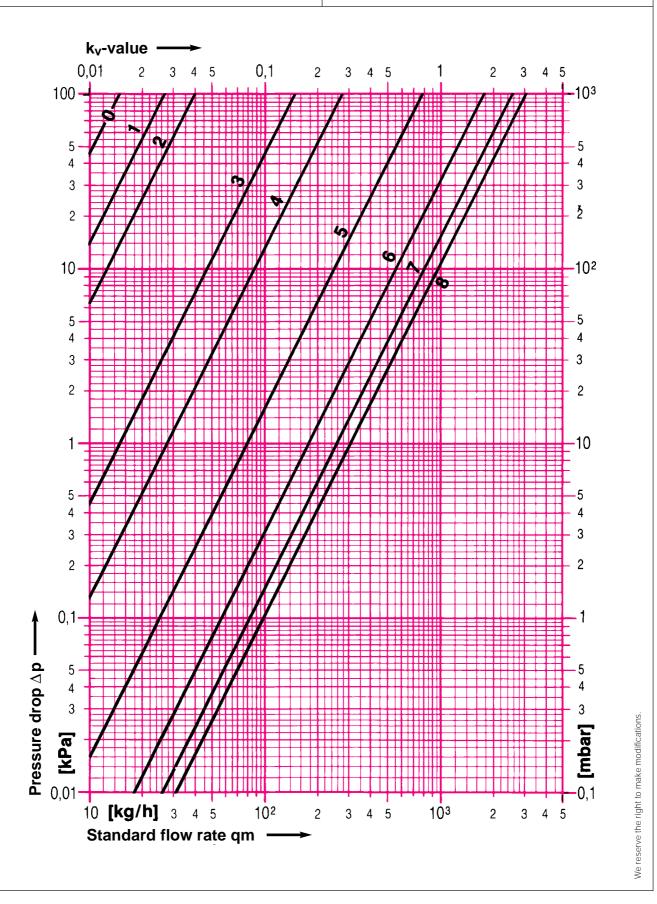
9

HERZ Armaturen Richard-Strauss-Straße 22 • A-1230 Wien

#### HERZ-DR-T-90

Art. Nr. 6824





Hez

 $\bigcirc$ 

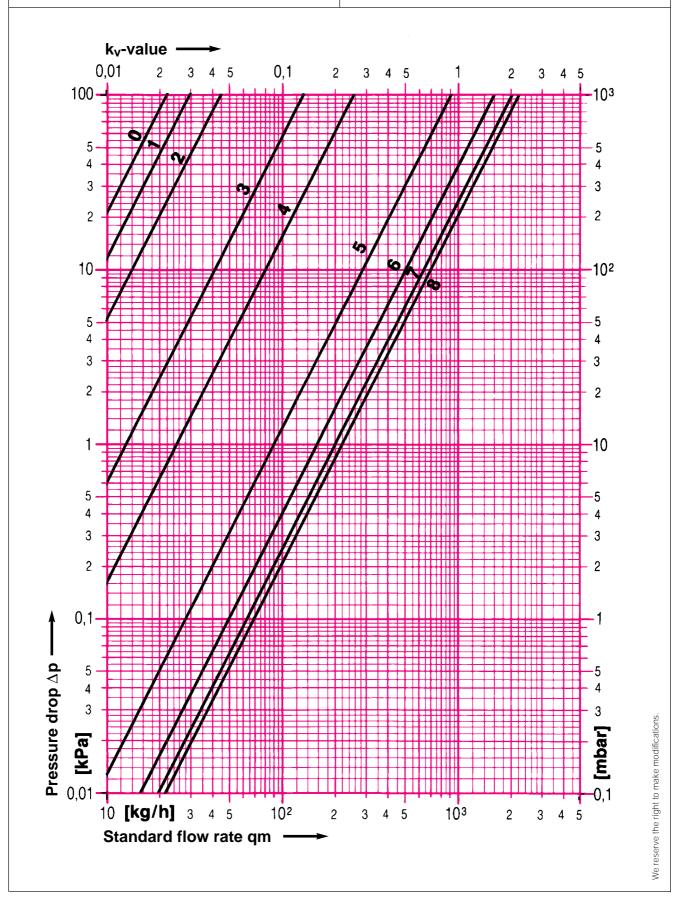
HERZ Armaturen

Richard-Strauss-Straße 22 • A-1230 Wien

#### HERZ-DR-T-90

Art. Nr. 6823

Dim. DN 20 R=3/4"

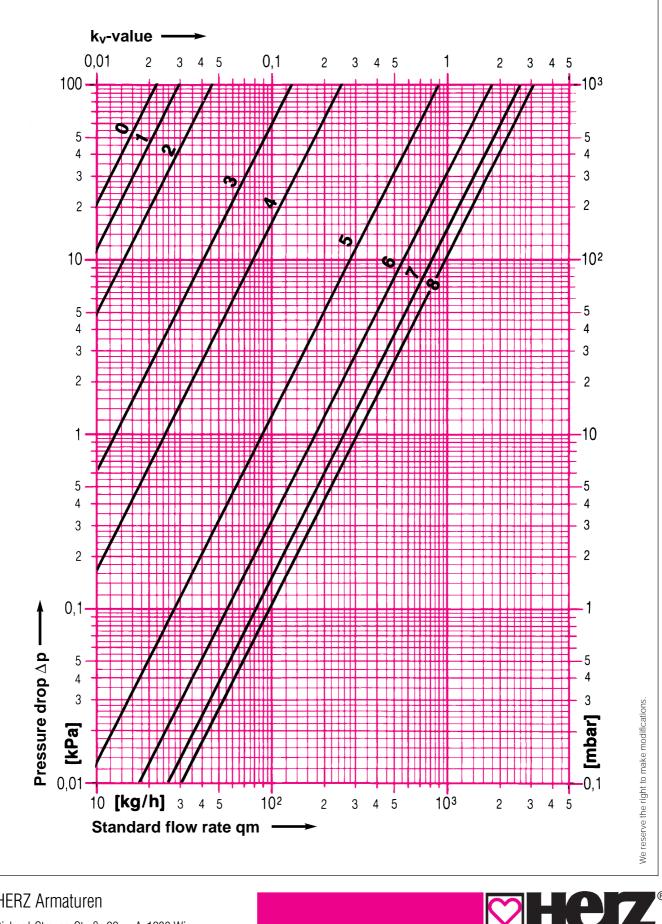


Z 11

#### HERZ-DR-T-90

Art. Nr. 6824

Dim. DN 20 R=3/4"



 $\bigcirc$ 

HERZ Armaturen Richard-Strauss-Straße 22 • A-1230 Wien