	4217 GM
STRÖMAX-GR Circuit Control Valve	Edition 1000 (0999)
STRÖMAX-GM Circuit Control Valve with Measuring Valves	4217
STRÖMAX-GM/GR	Standard Sheet for

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4217 GM



4217 GR

Order 4217 GM	Numbers 4217 GR	Rp	L	н	R1	Hexagon Key mm	Octagon Key mm	Dimensions in mm Order Numbers
1 4217 01	1 4217 61	1/2"	100	97	1/4"	27	-	
1 4217 02	1 4217 62	3/4"	100	97	1/4"	32	-	
1 4217 03	1 4217 63	1"	120	107	1/4"	41	-	
1 4217 04	1 4217 64	1 1/4"	140	112	1/4"	_	50	
1 4217 05	1 4217 65	1 ¹ /2"	150	112	1/4"	_	55	
1 4217 06	1 4217 66	2"	165	136	1/4"	_	70	
1 4217 07	1 4217 67	21/2"	190	138	3/8"	_	85	
1 4217 08	1 4217 68	3"	210	142	3/8"	_	100	
217 GM STRÖMAX-GM Circuit Control Valve with Measuring Valves, 1/2"–3" Screw down model, brass version, socket x socket, non-rising spindle, spindle seal by means of double-O-ring, presetting by limitation of valve lift by means of internal spindle; digital display of presetting step at the hand wheel window.							e seal by internal	Models STRÖMAX-GM
2 Measuring valves are located adjacent to the hand wheel. 2 bore holes for draining fittings are closed with screw plugs (272).								STRÖMAX-GR

4217 GR	STRÖMAX-G Screw down r means of do spindle; digita 2 bore holes f		
4217 M	1/2"-3"	STRÖMAX-M circuit control valve with measuring valves, inclined	Other Models

4218 MFS 4218 MF	DN 50-DN 200 DN 15-DN 200	STÖMAX-MFS circuit control valves with measuring vales, with flanges, inclined model STRÖMAX-MF- circuit control valves with measuring valves, with	measuring valves	
2 Measuring manufacturer in any positio	Valves are located . This arrangement n of installation.	Measuring Valves STRÖMAX-GM		

Valves 1/2"–2": pipe threads 1/4" Valves 2¹/2"–3": pipe threads 3/8".

HERZ Armaturen

Bore Sizes

STRÖMAX-GM with Measuring Valves

4217 GR STRÖMAX-GR

without Measuring Valves

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



Richard-Strauss-Straße 22 • A-1230 Wien

270	1/4"-3/8"	Drai	n cock wit	h handle					Draining Fittings
272	1/4"-3/8" 1/4"-3/8"	Scre	ew plug, in in cock for	stalled	nection				
Draining fitti	ngs must be or	dered sep	arately.		neotion				
For hydraulic balancing in heating and cooling systems, adjustment of distribution mains, circuits, heat exchangers, heating and cooling registers, etc.							Field of Application		
Maximum operating temperature 110 °C Maximum operating pressure 10 bar Hot water purity in accordance with Austrian standard ÖNORM H 5195 and/or VDI-guideline 2035.								Operating Data	
When using peratures ar rature of 80 permitted by	HERZ compre nd pressures as °C and maxim (the pipe manu	ssion unic per EN 12 um operat ufacturer.	ons for cop 254-2:1998 ing pressu	oper and s 3 specified ure of 4 b	steel pipes d in Table s ar applies	s, observe 5. A maxim for plastic	the perminum operate pipe con	ssible tem- ing tempe- nections, if	HERZ Compression Union
The sockets threaded pip compression	for the circuit pes or calibrate n unions. Comp	control va ed soft-ste pression ur	lves R = - el or copp nions and a	1/2" and F per pipes, adapters r	R = 3/4" and the latter must be or	e suitable two by me dered sep	for connect eans of ad- arately.	cting either apters and	Pipe Connection by Means of Compression Unions
Pipe Ø D m	m	10	12	14	15	16	18	18	
Valve	R =			1	/2"			3/4"	
Adapter	Order No.	1 6272 01	1 6272 01	1 6272 01	1 6272 01	1 6272 01	1 6272 11	1 6272 12	
Compr. Unio	on Order No.	1 6284 00	1 6284 01	1 6284 03	1 6284 04	1 6284 05	1 6289 01	1 6289 01	
For the insta support slee thread) as w Please cons	Illation of soft-si eves. For perfe vell as the olive sult our instructi	eel or cop ect installa with silico ons for ins	per pipes tion lubric ne oil. tallation.	with comp ate the th	pression ur pread of th	hions, we r he locking	ecommeno nut (male	the use of or female	
The circuit c pipe unions	control valves R are connected	= 1/2" are to the soc	e suitable f kets. For m	or system	is with plas d dimensio	stic pipes. ons consult	Adapters a the HERZ	and plastic catalogue.	Plastic Pipe Connection
Flow Direction During installation, take into account the flow direction arrow on the valve body.								Special Design Features	
Installation	Position								
The non-risi accessibility	ing valve spin and optimum	dle arran valve oper	ged perpe ation in an	endicular y installati	to the va on position	alve axis n.	guarantees	s optimum	
Presetting									
The current front side of means of the can be shut presetting s unauthorized	position of the the hand whe e covered pres off at any time pindle is cove d operation.	flow restri el. The de setting spir and/or car red by th	ction cone sired pres ndle locate be set to e hand w	e is shown etting step ed inside any desire heel faste	on a clea can be e the valve. ed position ening scre	arly visible easily adju The prese below the ew and the	digital disp sted and s t circuit co fixed pres us protecto	blay on the secured by ontrol valve setting. The ed against	
Preset Seal	ina								\frown
The presetting seal (1 6517 04) is attached above the hand wheel fastening screw to prevent unauthorized operation. If the seal is removed it breaks and cannot be mounted again. Therefore, it can be clearly seen whether tampering with the valve has occurred.							to prevent Therefore,		
Presetting I	Marker								
The pre-setting marker (1 6517 05) is fastened as a tag above the valve or pipe. The setting of the respective valve is marked by cutting or breaking off the teethc at the figures for full and partial turns. This permits checking and/or restoration of the original pre-setting made on the occasion of the system set-up after servicing without having to rely on documentation.							tting of the artial turns. sion of the	09299999 996688779	
Spindle Sea	al								
The double-O-ring seals of both the main spindle and the presetting spindle ensure complete and lasting tightness and ease of valve operation. The seals have been approved for a maximum operating temperature of 150 °C.							e complete a maximum		
Seat Seal									
The tempera with a low sh	ature-resistant a nutting force, a	and perma nd has be	nently elas en approv	stic soft se ed for a m	al is corros aximum o	sion-resista perating te	ant, permite mperature	s operation of 150 °C.	

STRÖMAX-GR valves are of the same mechanical design as STRÖMAX-GM, i.e. the digital presetting step display as well as the presetting procedure are identical. However, STRÖMAX-GR valves are not equipped with measuring valves.	STRÖMAX-GR
The STRÖMAX-GM circuit control valve is equipped with two measuring valves. The differential pressure can be measured using a suitable measuring instrument, which permits calculation of the flow rate as a function of the respective presetting step. The HERZ-Measuring computer (1890100) permits direct flow rate reading (consult the equipment manual).	Differential Pressure Measurement STRÖMAX-GM
The STRÖMAX-GM and STRÖMAX-GR circuit control valves are supplied in open position, preset to permit the maximum possible valve lift. The hand wheel mechanism is adjusted in such a way that the digital reading will be 0.0 when the valve is closed.	Presetting Setting and Fixing
 Set to the desired step according to calculation (digital display ont the hand wheel). Remove the hand wheel locking screw, do not remove the hand wheel from the valve. Screw the presetting spindle, which is now accessible, in up to the stop. Screw in the hand wheel locking screw again. Seal with presetting seal. Mark the step set at the presetting marker and attach the marker to the valve. Points 5 and 6 are not necessary for function, but are recommended. When using a differential manometer, setting can be performed only on the basis of the HERZ-setting diagrams. A flowrate for the STRÖMAX-GM valve can only be set without specifying a pre-setting step if a measuring instrument is used. Follow the operating instructions when using a measuring computer. 	
 The factory setting of the digital display is 0.0 when the valve is closed. If the complete hand wheel (rotating grip, figure wheels, base plate) is removed from the valve or if a defective part has to be replaced, proceed as follows to ensure correct digital display reading: 1. Return the complete hand wheel into position and slide it onto the valve until the hexagon at the valve body and the spindle gear interlock. 2. Shut the valve by turning clockwise. 3. If the digital display reads 0.0 in the shut position, the hand wheel has been positioned correctly and can be secured by means of the locking screw. In case of a different reading remove the complete hand wheel. 4. Twist the base plate and rotating grip until the digital display reads 0.0 and then return the complete hand wheel locking screw. 5. Tighten hand wheel locking screw. 	Digital Display Factory Setting
The two measuring valves are equipped with a soft seal and permanently fixed in the circuit control valve. Warning : Open the measuring valves only when a measuring instrument has been connected. Otherwise, hot water flowing out may cause injury! The HERZ-measuring computer is equipped with suitable couplings with O-ring seal and locking screw that permit perfect fastening on the measuring valves. Prior to measuring attach and secure the couplings. Only afterwards, open the measuring valve by approx. 1/2 turn using of the HERZ-universal key (1 6640 00) or by means of an 8 mm open end wrench. After finishing the measuring procedure, first shut the measuring valve and only then remove the couplings from the measuring valves.	Actuating the Measuring Valves STRÖMAX-GM
For thermal insulation and the avoidance of heat loss we recommend the use of thermal insulation shells. These consist of two interlocking half shells and the spindle cover. The parts are closed by over-lapping and held together by means of tightening straps. The thermal insulation shells can be removed and re-used at any time. Thermal insulation shells can be used up to a maximum operating temperature of 120 °C. For models and dimensions please refer to the HERZ catalogue.	Thermal Shells Art. No. 4096
1 4096Thermal insulation shells – refer to the HERZ catalogue for order numbers1 6517 04Pre-setting seal1 6517 05Pre-setting marker1 6640 00HERZ Universal key1 8902 00HERZ measuring computer with printer interface	Accessories
1 0283 09 Measuring valve 1 6387 STRÖMAX-GM/GR upper part – refer to the HERZ catalogue for order numbers 1 6517 06 Hand wheel for valve dimension 1/2" – 11/2" 1 6517 08 Hand wheel for valve dimension 2" – 3"	Spare Parts
The mechanical design of the hand wheel combined with the digital display permits setting of whole turns and tenths of a turn. Consequently, there is a large number of setting options which cannot be shown in a diagram. The diagrams show integral presetting steps and, to the extent that this is possible, also intermediate steps.	Diagrams
In addition to the diagrams each pre-setting step is included in a k_v table so that any desired value can be set with relative accuracy. In piping calculation software, the data is given on the basis of the more accurate k_v -value table.	k _v -Value Tables