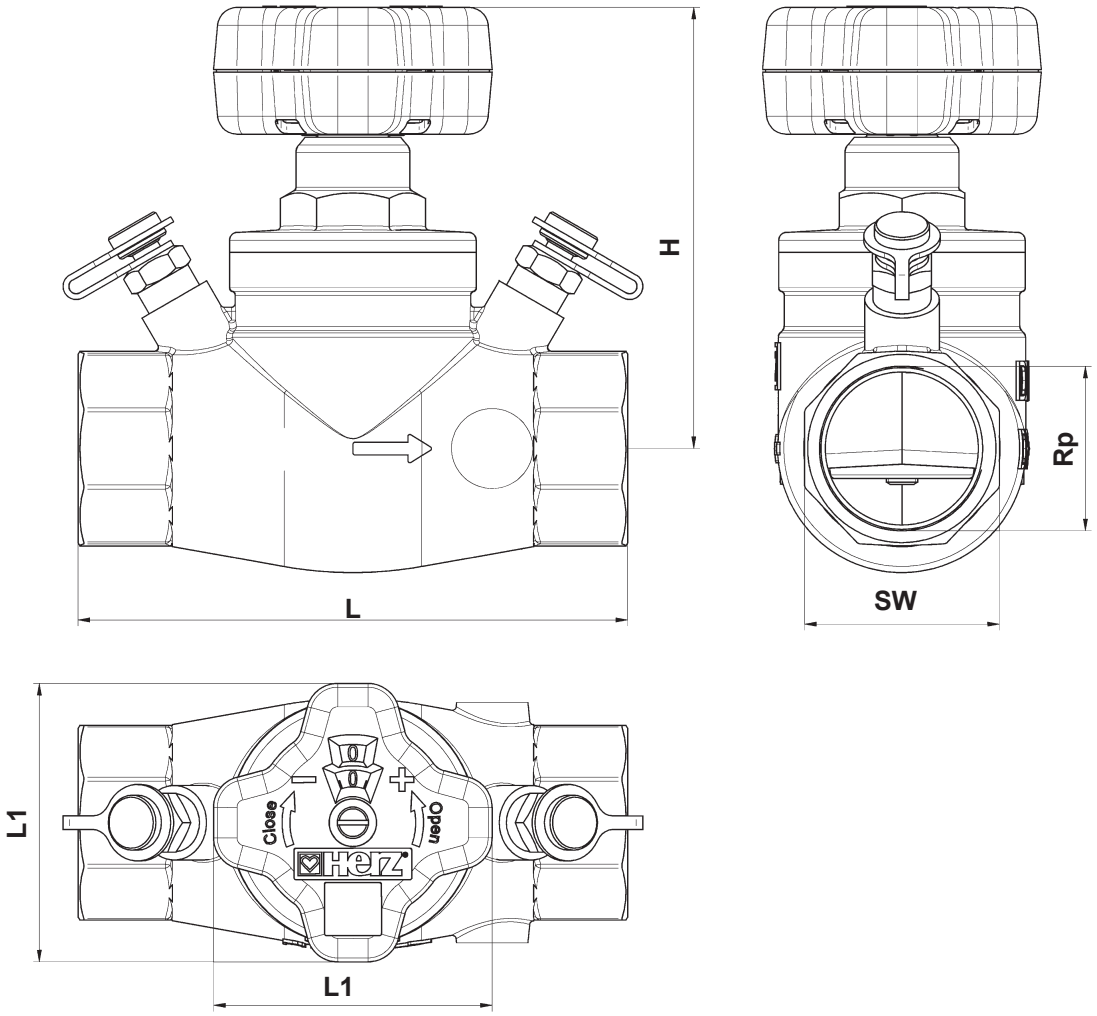
HERZ Commissioning valve 4217-GMW

4217-GMW commissioning valve with test points

Data sheet for 4217 GMW, Issue 0926

4217-GMW with test points



Dimensions in mm

Order number **4217 GM**	DN	Rp	L	L1	H	SW Hexagon	SW Octagon	kvs valve	kvs variable orifice
2 **4217** 80	15 LF	1/2	100	71	97	27	-	0,93	0,93
2 **4217** 89	15 MF	1/2	100	71	97	27	-	3,41	3,49
2 **4217** 81	15	1/2	100	71	97	27	-	5,56	8,04
2 **4217** 82	20	3/4	100	71	97	32	-	6,40	7,02
2 **4217** 83	25	1	120	71	107	41	-	9,29	9,22
2 **4217** 84	32	1¼	140	71	112	-	50	18,69	18,83
2 **4217** 85	40	1½	150	71	112	-	55	24,39	23,29
2 **4217** 86	50	2	165	110	136	-	70	34,41	35,26

Model 4217-GMW

4217 GMW commissioning valve for differential pressure measurement in drinking water systems, with measuring valves, 1/2–2 brass version made of dezincification-resistant (DZR) brass, socket x socket, spindle seal by means of double O-ring, presetting by limitation of valve lift, digital display of the presetting step at the hand wheel window. 2 standard test points are located adjacent to the hand wheel.

Other models

4117 MW	DN 15 - 50	STRÖMAX-MW Commissioning valve with test points for drinking water, inclined body
4117 RW	DN 15 - 50	STRÖMAX-MW Commissioning valve for drinking water, inclined body
4017 MW	DN 15 - 50	4017-MW Commissioning valve with integral fixed orifice for drinking water, inclined body
4217 GNW	DN 15 - 50	4217-GNW Commissioning valve with test points for drinking water, straight body

Test points STRÖMAX-GMW

2 test points are located adjacent to the hand wheel at identical angles, sealed by the manufacturer. This arrangement permits optimum access and connection of measuring instruments in any position of installation.

2 **0284** 01	1/4	Test point for HERZ-STRÖMAX TW commissioning valves, brass version, blue cap (return) for pressure transducer, valves have two indentations (for drinking water).
2 **0284** 02	1/4	Test point for HERZ-STRÖMAX TW commissioning valves, brass version, red cap (supply) for pressure transducer, valves have two indentations (for drinking water).

Certification

R-15.2.4-21-17117
WIEN-ZERT

2 **4217** 8X are certified by WIENZERT with the Austrian ÜA-sign for potable water.

Field of application

For shutting off and regulating drinking water systems in buildings or for hydraulic balancing of supply lines.

Technical data

Allowed operating data according to ÖVGW-Certification:

Max. operating pressure	10 bar (PN10)
Max. operating temperature	65 °C

Technically possible operation data:

Max. operating temperature	85 °C
Max. operating pressure	16 bar

HERZ compression adapters for copper and steel pipes, allowable temperature and pressure ratings according to EN 1254-2 1998 Table 5.
HERZ plastic pipe connections max. operating temperature 95 °C and max. operating pressure 10 bar, if approved by the pipe manufacturer.
Ammonia contained in hemp can damage brass valve bodies, EPDM gaskets can be affected by Mineral oils lubricants and thus lead to failure of the EPDM seals.

Pipe connection with compression sets for copper and soft steel pipes

The regulating valves can be connected either to a threaded pipe or to a calibrated copper pipe using a compression adapter. Compression adapter must be ordered separately.

Pipe mm		8	10	12	14	15	16	18
Valve	DN	**15**						
Adapter	BestNr.	1 **6266** 01	1 **6266** 01	1 **6266** 01	1 **6266** 01	1 **6266** 01	1 **6266** 01	1 **6266** 01
Comp. union	BestNr.	1 **6274** 18	1 **6274** 00	1 **6274** 01	1 **6274** 02	1 **6274** 03	1 **6274** 04	1 **6274** 04
Comp. union soft sealing Order No.	optional	–	–	1 **6276** 12	1 **6275** 02	1 **6276** 15	1 **6275** 04	1 **6276** 18

Pipe mm		8	10	12	14	15	16	18	22
Valve DN		**20**							
Adapter	Order No.	1 **6266** 20	1 **6266** 20	1 **6266** 20	1 **6266** 20	1 **6266** 20	1 **6266** 20	1 **6266** 20	1 **6266** 13
Comp. union	Order No.	1 **6274** 18	1 **6274** 00	1 **6274** 01	1 **6274** 02	1 **6274** 03	1 **6274** 04	–	1 **6273** 01
Comp. union soft sealing Order No.	optional	–	–	1 **6276** 12	–	1 **6276** 15	–	1 **6276** 18	–

Pipe mm		22
Valve	DN	**25**
Adapter	Order No.	1 **6266** 03
Comp. union	Order No.	1 **6273** 01

When assembling soft steel or copper pipes with compression fittings, we recommend using support sleeves. The thread of the locking nut (male or female thread) as well as the olive must be lubricated with silicone oil. We draw attention to our instructions for installation.

Plastic pipe connection

The control valves can be used in systems with plastic pipes. Adapters and plastic pipe connections can be fitted to the special sockets.

Pipe mm		14 x 2	16 x 2	16 x 2,2	17 x 2	17 x 2,5	18 x 2	18 x 2,5	20 x 2
Valve	DN	**15**							
Adapter	Order No.	1 **6266** 01	1 **6266** 01	1 **6266** 01	1 **6266** 01	1 **6266** 01	1 **6266** 01	1 **6266** 01	1 **6266** 01
Plastic pipe connection wahlweise	Order No.	1 **6098** 02	1 **6095** 01	1 **6098** 12	1 **6098** 04	1 **6098** 05	1 **6098** 07	1 **6098** 06	1 **6095** 02

Pipe mm		20 x 2,5	20 x 3,5	14 x 2	16 x 2	16 x 2,2	17 x 2	17 x 2,5	18 x 2
Valve	DN	**15**		**20**					
Adapter	Order No.	1 **6266** 01	1 **6266** 01	1 **6266** 20	1 **6266** 20	1 **6266** 20	1 **6266** 20	1 **6266** 20	1 **6266** 20
Plastic pipe connection optional	Order No.	1 **6098** 11	1 **6098** 10	1 **6098** 02	1 **6095** 01	1 **6098** 12	1 **6098** 04	1 **6098** 05	1 **6098** 07

Pipe mm		18 x 2,5	20 x 2	20 x 2,5	20 x 3,5
Valve	DN	**20**			
Adapter	Order No.	1 **6266** 20	1 **6266** 20	1 **6266** 20	1 **6266** 20
Plastic pipe connection optional	Order No.	1 **6098** 06	1 **6095** 02	1 **6098** 11	1 **6098** 10

Pipe mm		16 x 2	20 x 2	20 x 3,5	26 x 3
Valve	DN	**25**			
Adapter	Order No.	1 **6266** 03	1 **6266** 03	1 **6266** 03	1 **6266** 03
Plastic pipe connection optional	Order No.	1 **6198** 11	1 **6198** 12	1 **6198** 00	1 **6198** 01

Flow direction

During installation, take into account the flow direction arrow on the valve body.

Installation position

The non-rising valve spindle arranged perpendicular to the valve axis guarantees optimum accessibility and optimum valve operation in any installation position.

Presetting

The current position of the flow restriction cone is shown on a clearly visible digital display on the front side of the hand wheel. The desired presetting step can be easily adjusted and secured by means of the covered presetting spindlelocated inside the valve. The preset circuit control valve can be shut off at any time and/or can be set to any desired position below the fixed presetting. The presetting spindle is covered by the hand wheel fastening screw and thus protected against unauthorized operation.

Preset sealing



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.

Presetting 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.

Differential pressure measurement 4217-GMW

The 4217-GMW commissioning valve is equipped with two test points. 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 (1 **8900** 05) permits direct flow rate reading (consult the equipment manual).

Pre-setting, adjustment and fixing

The 4217-GMW commissioning valve 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 display will be 0.0 when the valve is closed.

Presetting procedure

1. Set the desired step according to the calculation (digital display on the hand wheel).
2. Remove the hand wheel locking screw; the handwheel must not be removed from the valve.
3. Screw in the now accessible presetting spindle until it stops.
4. Screw in the hand wheel locking screw again.
5. Seal with presetting seal.
6. 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.

Setting a specific flow rate without specifying the preset level is only possible with the STRÖMAX-GMW valve when using a measuring device. With a differential pressure measuring device, the setting can only be carried out with the assistance of the HERZ setting diagrams. When using a measuring computer, it is important to follow the device‘s operating instructions.

Digital display factory setting

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 into position without twisting the spindle.
5. Tighten hand wheel locking screw.

Then, the valve can be set to the desired position.

Accessories and spare parts

1 **6517** 04	Pre-setting seal
1 **6517** 05	Pre-setting marker
1 **8900** 05	HERZ measuring computer
2 **0284** 01	Test point, brass version, blue cap (return)
2 **0284** 02	Test point, brass version, red cap (supply)

Diagrams

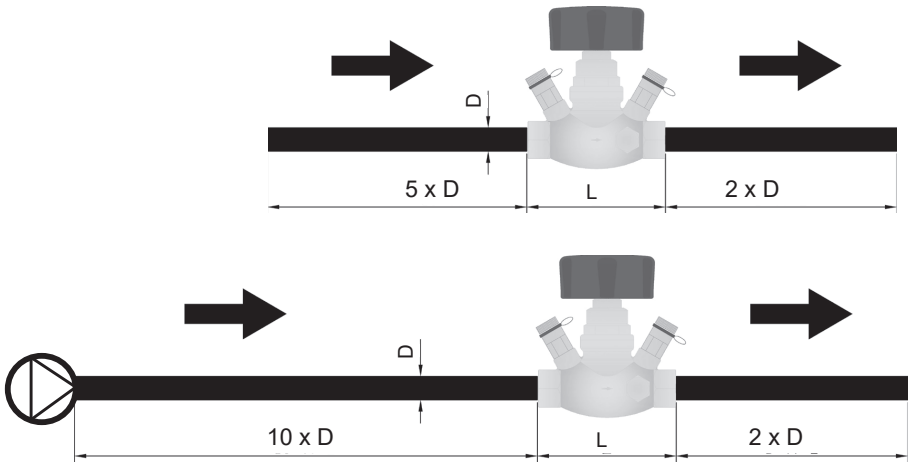
The mechanics of the handwheel in conjunction with the digital display allow adjustment of whole and tenths of revolutions. This results in a large number of settings that cannot be represented in diagram form. Whole stages and, where possible, intermediate stages are shown in the diagrams.

kv-value table

In addition to the diagrams, each presetting level is included in a kv value table, with which any desired value can be set relatively precisely. In relevant computer programs for pipe network calculations, the data is given based on the more precise kv value table.

Measuring

To maintain meaningful measurement results, it is important to observe the calming distances in the inlet and outlet. According to CIBSE Code W double regulating valves must always be installed with a minimum of 5 pipe diameters of straight pipe, without intrusion, upstream of the valve. Downstream of the valve a minimum of 2 pipe diameters of straight pipe are required. If a pump is installed directly before the valve, we recommend 10 pipe diameters of straight pipe, without intrusion, upstream of the valve.



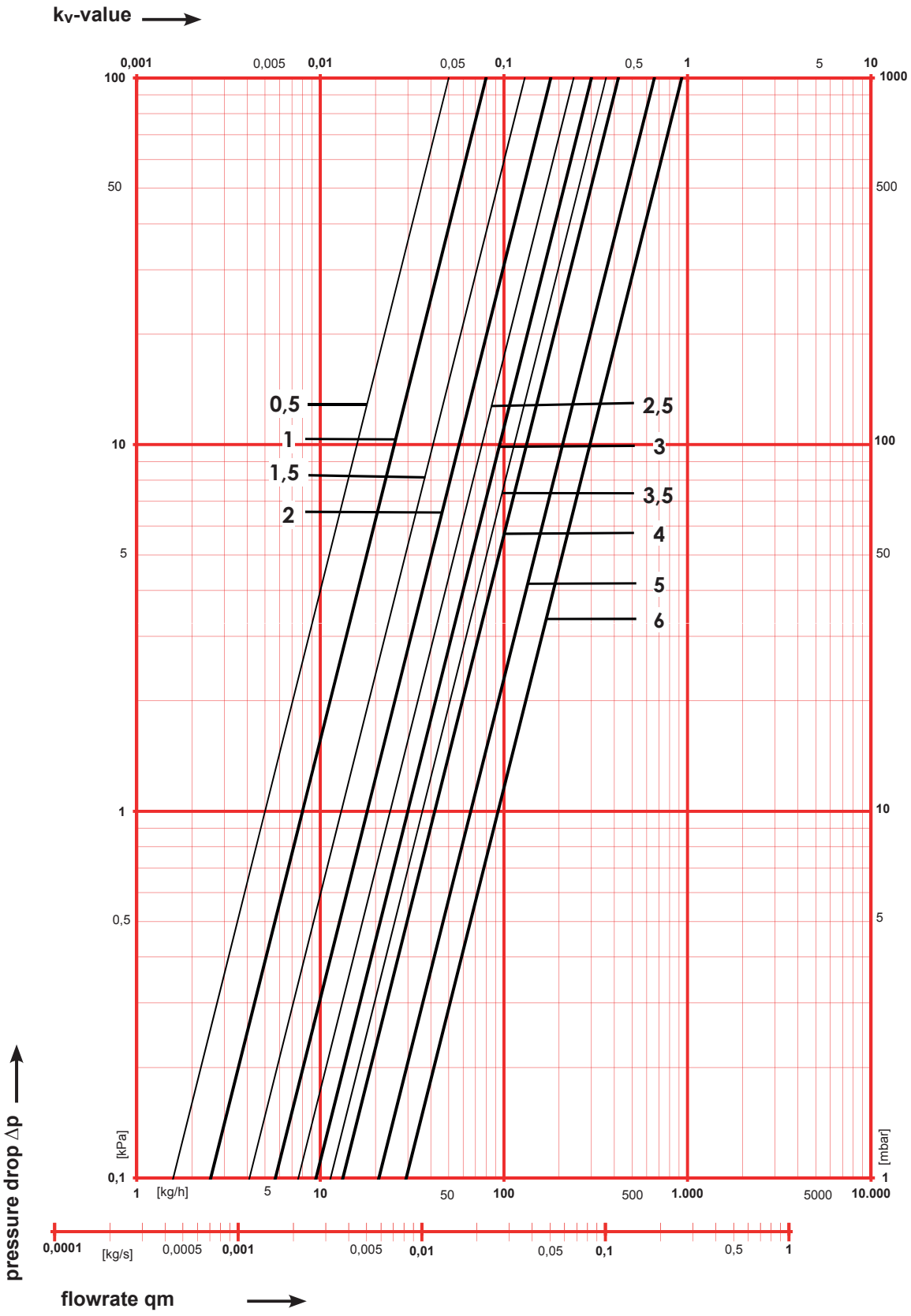
Brass

HERZ uses top-quality brass that complies with the standards DIN EN 12164, DIN EN 12165 and DIN EN 1982. Gemäß Art 33 der REACH-Verordnung (EG Nr. 1907/2006) sind wir verpflichtet, darauf hinzuweisen, dass der Stoff Blei auf der SVHC-Liste geführt wird und dass alle aus Messing bestehenden Bauteile, die in unseren Erzeugnissen verarbeitet sind, mehr als 0,1 % (w/w) Blei (CAS: 7439-92-1 / EINECS: 231-100-4) enthalten. Da Blei als Legierungsbestandteil fest gebunden ist, sind keine Expositionen zu erwarten und daher sind keine zusätzlichen Angaben zur sicheren Verwendung notwendig.

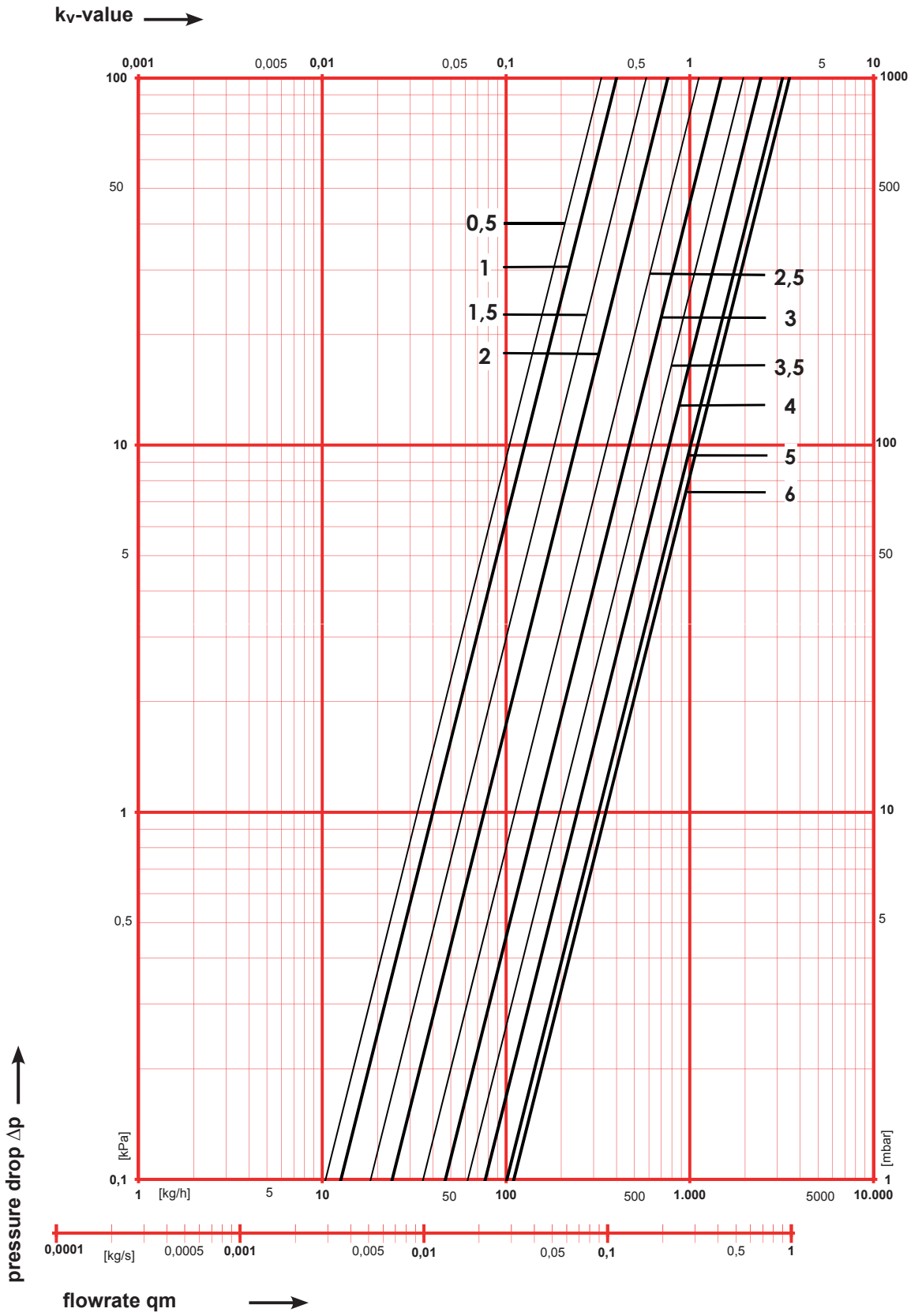
Disposal

National legal regulations for proper disposal have to be followed.

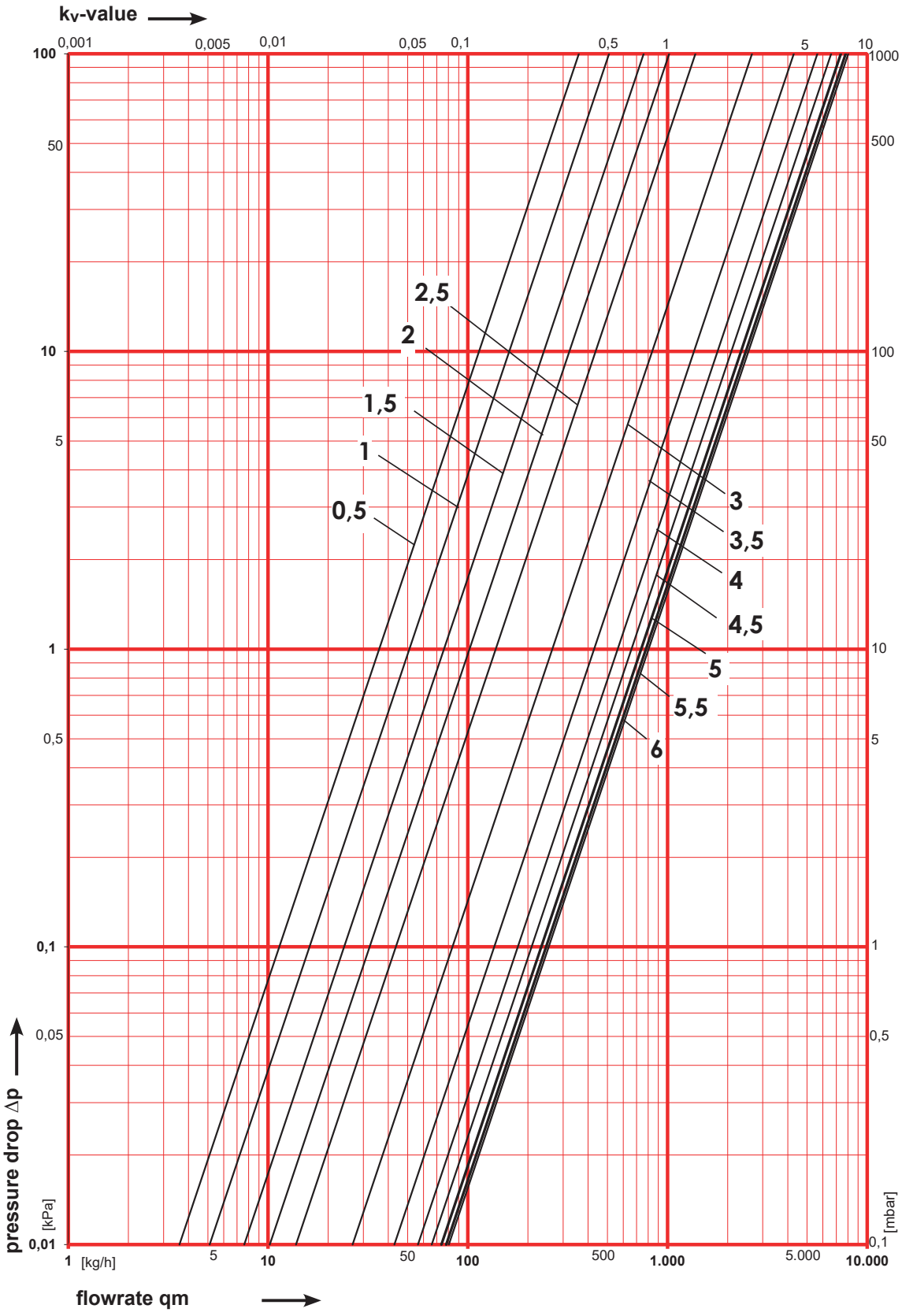
HERZ-Standard diagram	4217-GMW
2 **4217** 80	DN 15 LF



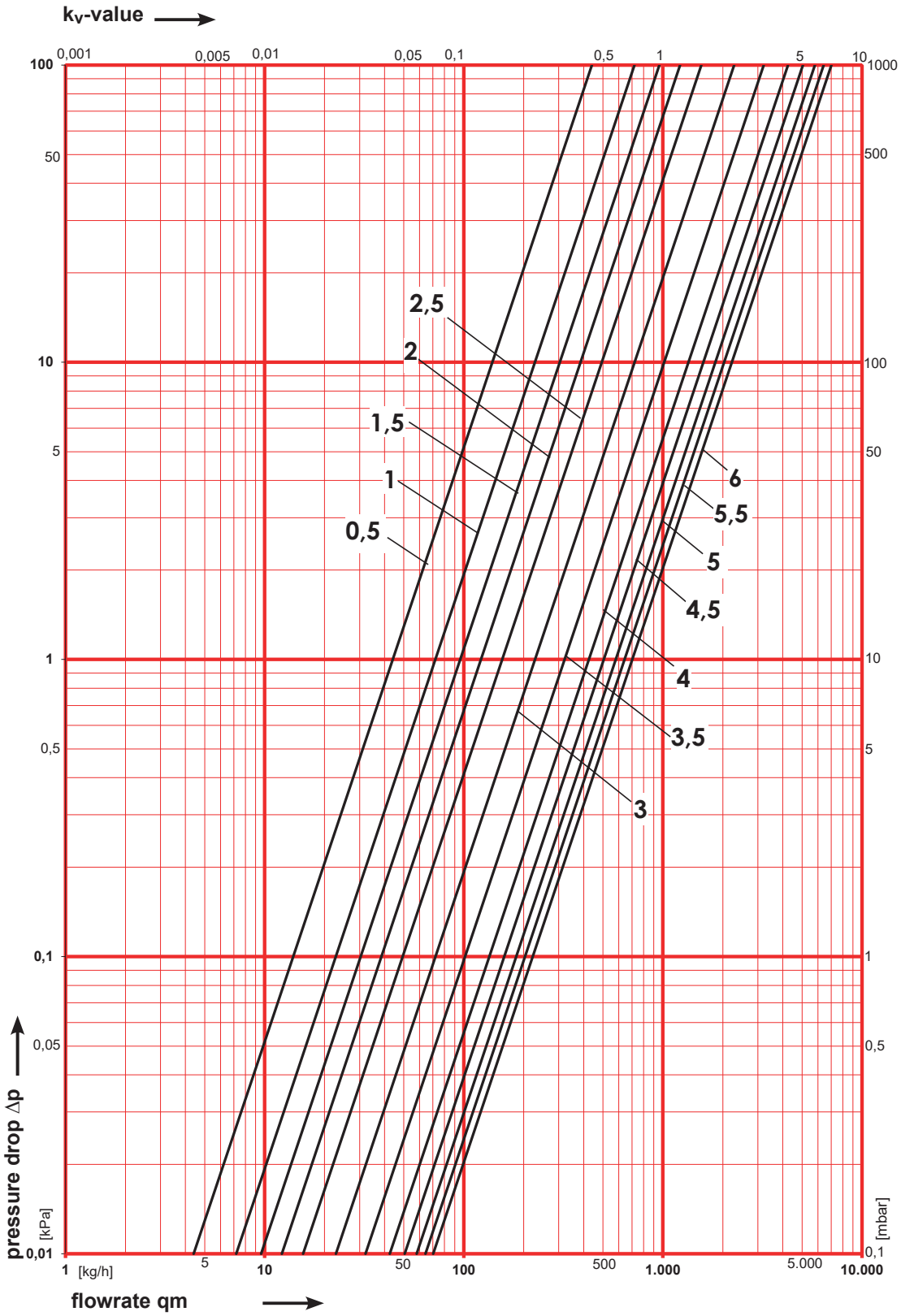
HERZ-Standard diagram	4217-GMW
2 **4217** 89	DN 15 MF



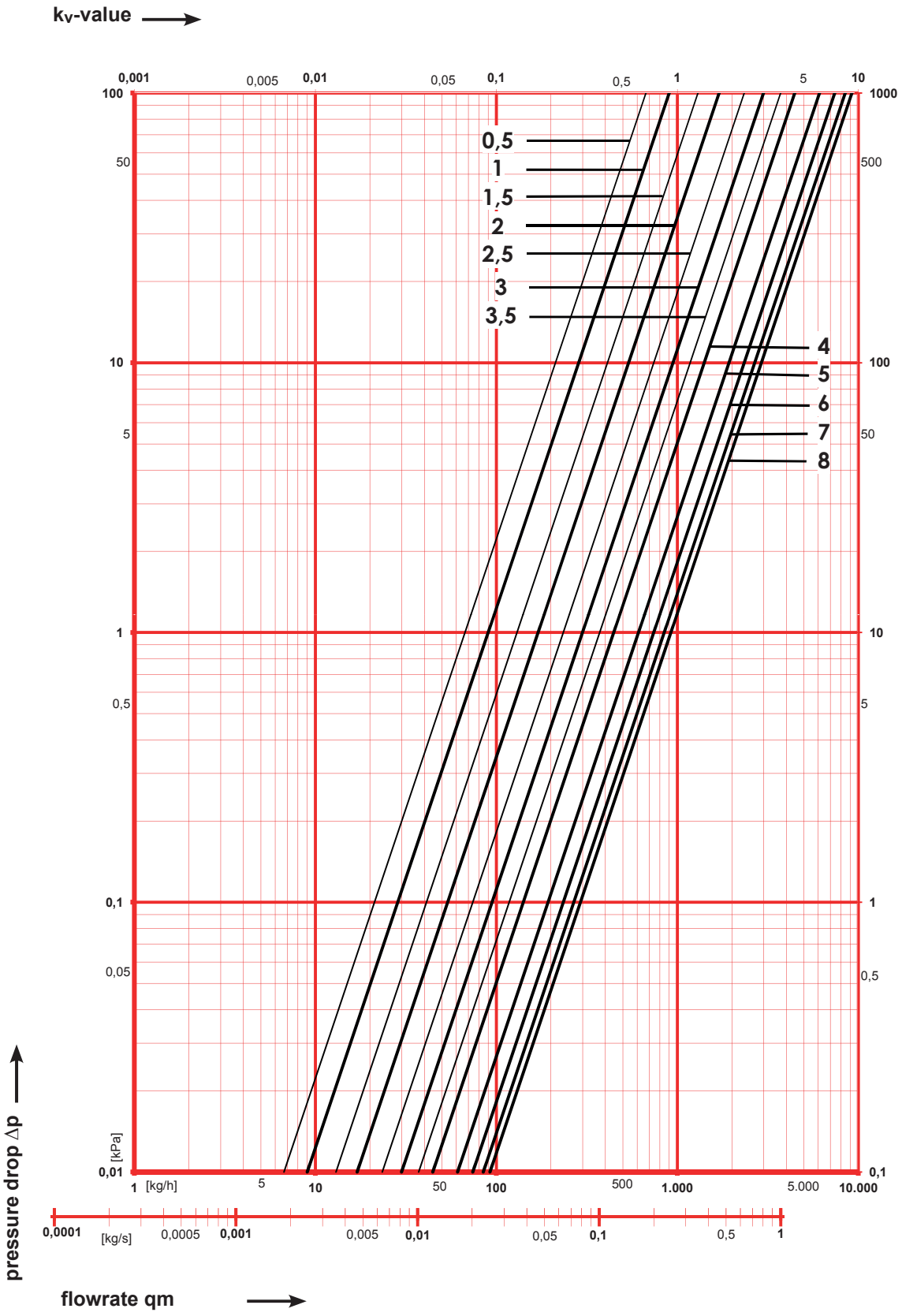
HERZ-Standard diagram	4217-GMW
2 **4217** 81	DN 15



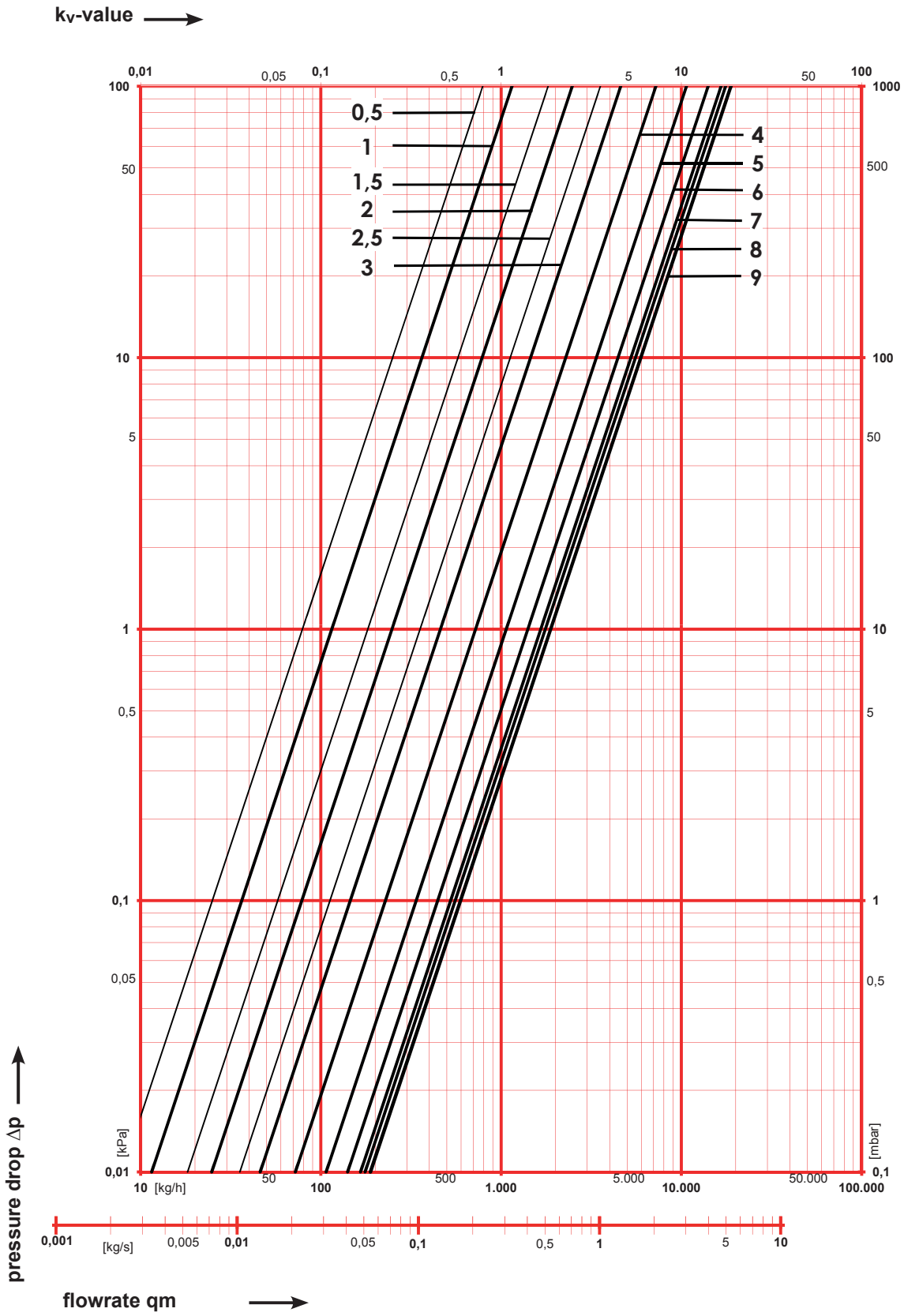
HERZ-Standard diagram	4217-GMW
2 **4217** 82	DN 20



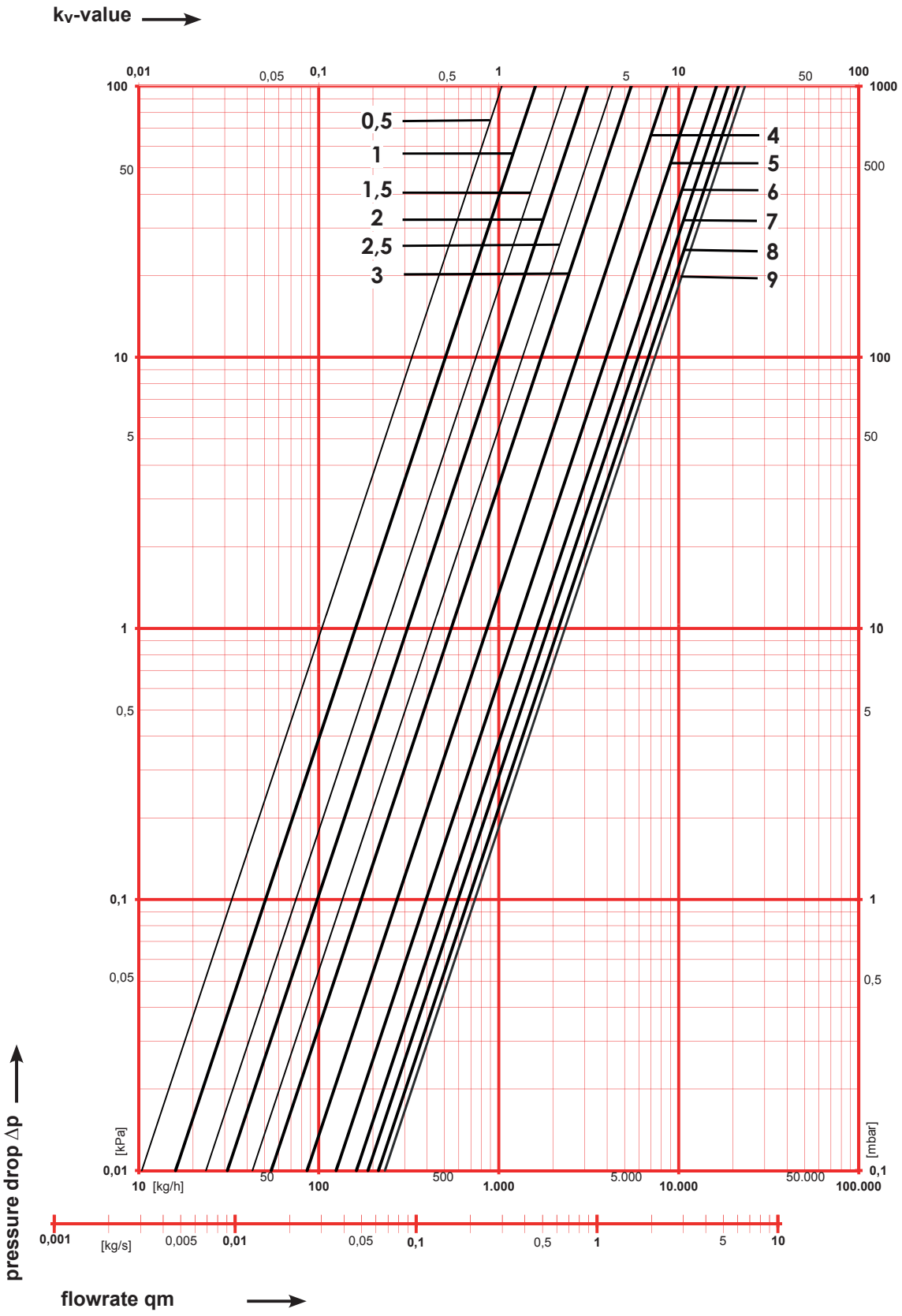
HERZ-Standard diagram	4217-GMW
2 **4217** 83	DN 25



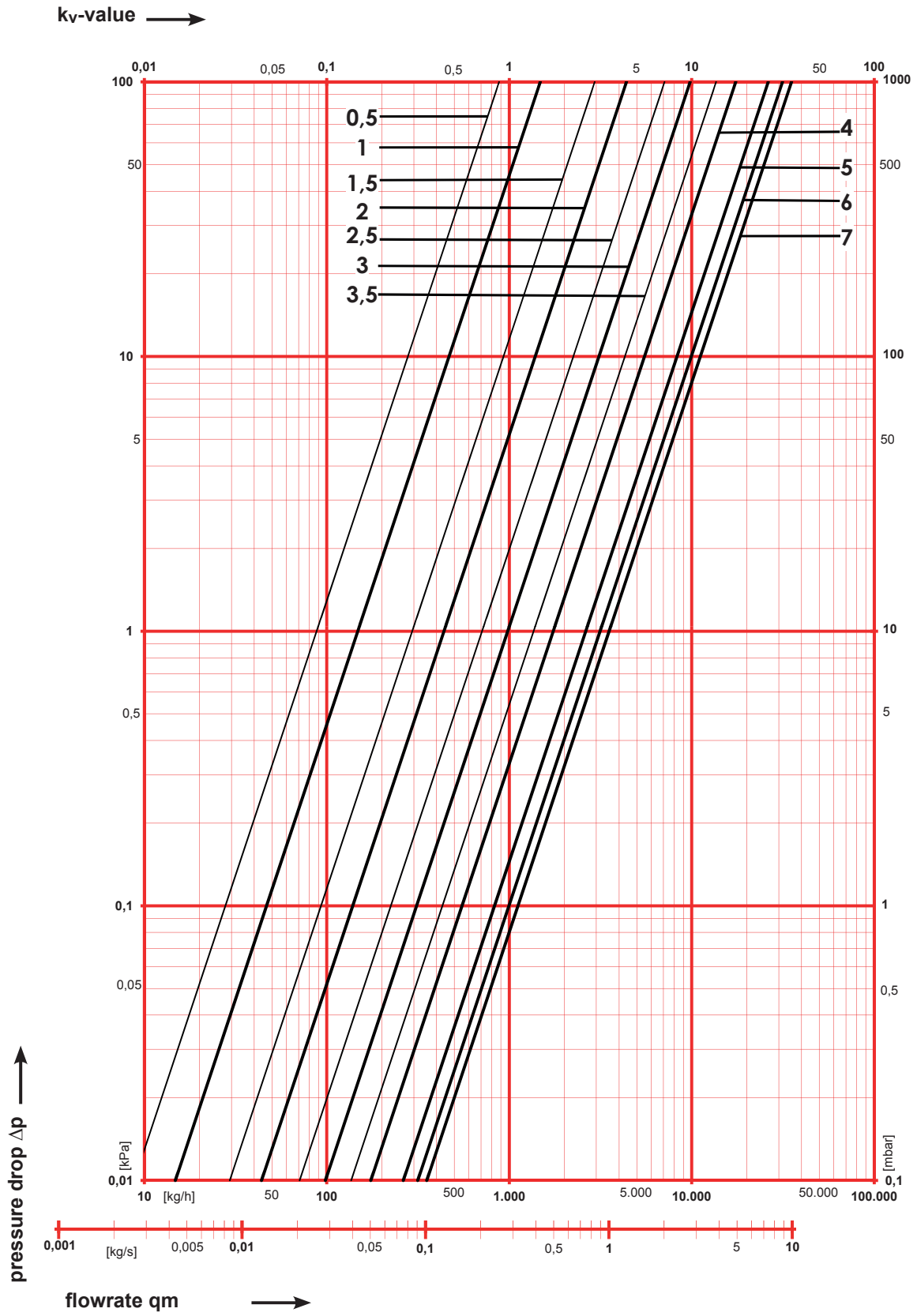
HERZ-Standard diagram	4217-GMW
2 **4217** 84	DN 32



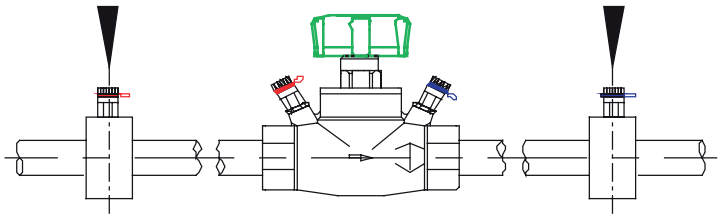
HERZ-Standard diagram	4217-GMW
2 **4217** 85	DN 40



HERZ-Standard diagram	4217-GMW
2 **4217** 86	DN 50



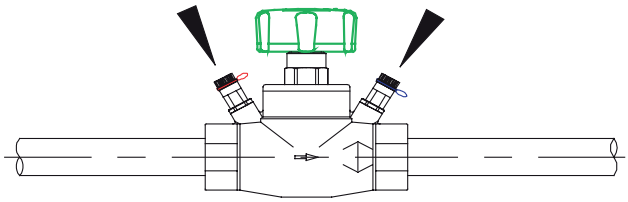
kv values of the valve STRÖMAX-GM/GML/GR



DN	15LF	15MF	15	20	25	32	40	50
Setting	kv	kv	kv	kv	kv	kv	kv	kv
0,5	0,05	0,33	0,36	0,44	0,67	0,78	1,03	0,87
0,6	0,06	0,34	0,39	0,49	0,71	0,86	1,15	1,00
0,7	0,06	0,36	0,42	0,55	0,75	0,93	1,26	1,12
0,8	0,07	0,37	0,45	0,60	0,79	1,00	1,37	1,24
0,9	0,07	0,39	0,48	0,66	0,83	1,07	1,49	1,36
1,0	0,08	0,40	0,51	0,71	0,87	1,15	1,60	1,48
1,1	0,09	0,44	0,56	0,76	0,95	1,28	1,75	1,77
1,2	0,10	0,47	0,61	0,81	1,04	1,42	1,90	2,06
1,3	0,11	0,51	0,66	0,86	1,12	1,55	2,05	2,35
1,4	0,12	0,54	0,71	0,91	1,20	1,68	2,21	2,64
1,5	0,13	0,58	0,76	0,96	1,28	1,82	2,36	2,93
1,6	0,14	0,61	0,81	1,01	1,36	1,95	2,51	3,22
1,7	0,15	0,64	0,86	1,06	1,44	2,09	2,66	3,51
1,8	0,16	0,68	0,92	1,12	1,53	2,22	2,81	3,80
1,9	0,17	0,71	0,97	1,17	1,61	2,35	2,96	4,10
2,0	0,18	0,75	1,02	1,22	1,69	2,49	3,11	4,39
2,1	0,19	0,82	1,09	1,09	1,81	2,70	3,35	4,92
2,2	0,20	0,89	1,16	1,09	1,93	2,91	3,58	5,46
2,3	0,22	0,96	1,22	1,09	2,04	3,12	3,81	5,99
2,4	0,23	1,03	1,29	1,09	2,16	3,33	4,04	6,53
2,5	0,24	1,11	1,36	1,55	2,28	3,54	4,27	7,06
2,6	0,25	1,18	1,59	1,69	2,40	3,74	4,51	7,60
2,7	0,26	1,25	1,82	1,83	2,52	3,95	4,74	8,13
2,8	0,27	1,32	2,06	1,97	2,64	4,16	4,97	8,67
2,9	0,28	1,39	2,29	2,11	2,76	4,37	5,20	9,20
3,0	0,30	1,46	2,52	2,25	2,87	4,58	5,44	9,74
3,1	0,31	1,55	2,78	2,43	3,03	4,83	5,74	10,47
3,2	0,32	1,65	3,05	2,60	3,18	5,08	6,05	11,20
3,3	0,34	1,74	3,31	2,78	3,34	5,33	6,35	11,93
3,4	0,35	1,83	3,58	2,95	3,49	5,59	6,66	12,66
3,5	0,36	1,92	3,84	3,13	3,65	5,84	6,96	13,38
3,6	0,37	2,01	4	3,32	3,80	6,09	7,27	14,11
3,7	0,39	2,10	4,16	3,50	3,95	6,34	7,57	14,84
3,8	0,40	2,19	4,32	3,69	4,11	6,59	7,88	15,57
3,9	0,41	2,28	4,48	3,87	4,26	6,84	8,18	16,30
4,0	0,43	2,37	4,64	4,06	4,42	7,09	8,49	17,03
4,1	0,45	2,44	4,74	4,20	4,58	7,40	8,85	17,92
4,2	0,47	2,51	4,84	4,34	4,75	7,72	9,22	18,82
4,3	0,49	2,58	4,93	4,49	4,91	8,03	9,58	19,71
4,4	0,52	2,65	5,03	4,63	5,07	8,35	9,95	20,60

DN	15LF	15MF	15	20	25	32	40	50
Setting	kv	kv	kv	kv	kv	kv	kv	kv
4,5	0,54	2,72	5,13	4,77	5,24	8,66	10,31	21,49
4,6	0,56	2,79	5,19	4,89	5,40	8,97	10,68	22,39
4,7	0,59	2,86	5,25	5,02	5,57	9,29	11,04	23,28
4,8	0,61	2,93	5,31	5,14	5,73	9,60	11,41	24,17
4,9	0,63	3,00	5,37	5,27	5,90	9,92	11,77	25,06
5,0	0,66	3,07	5,43	5,39	6,06	10,23	12,14	25,96
5,1	0,68	3,10	5,45	5,50	6,18	10,51	12,52	26,47
5,2	0,71	3,14	5,47	5,61	6,30	10,79	12,91	26,98
5,3	0,74	3,17	5,49	5,72	6,42	11,07	13,29	27,50
5,4	0,77	3,20	5,51	5,83	6,54	11,35	13,68	28,01
5,5	0,79	3,24	5,53	5,94	6,66	11,63	14,06	28,52
5,6	0,82	3,27	5,54	6,03	6,78	11,91	14,45	29,04
5,7	0,85	3,31	5,54	6,12	6,91	12,19	14,83	29,55
5,8	0,88	3,34	5,55	6,22	7,03	12,48	15,21	30,06
5,9	0,90	3,37	5,55	6,31	7,15	12,76	15,60	30,58
6,0	0,93	3,41	5,56	6,40	7,27	13,04	15,98	31,09
6,1					7,39	13,28	16,33	31,42
6,2					7,51	13,52	16,67	31,75
6,3					7,63	13,76	17,02	32,08
6,4					7,75	13,99	17,36	32,42
6,5					7,88	14,23	17,71	32,75
6,6					8,00	14,47	18,05	33,08
6,7					8,12	14,71	18,39	33,41
6,8					8,24	14,95	18,74	33,74
6,9					8,36	15,19	19,08	34,07
7,0					8,49	15,43	19,43	34,41
7,1					8,57	15,67	19,73	
7,2					8,65	15,92	20,04	
7,3					8,73	16,16	20,34	
7,4					8,81	16,40	20,65	
7,5					8,89	16,65	20,96	
7,6					8,97	16,89	21,26	
7,7					9,05	17,13	21,57	
7,8					9,13	17,37	21,87	
7,9					9,21	17,62	22,18	
8,0					9,29	17,86	22,49	
8,1						17,94	22,68	
8,2						18,03	22,87	
8,3						18,11	23,06	
8,4						18,19	23,25	
8,5						18,28	23,44	
8,6						18,36	23,63	
8,7						18,44	23,82	
8,8						18,53	24,01	
8,9						18,61	24,20	
9,0						18,69	24,39	

kv value of the variable measuring orifice STRÖMAX-GM/GML



DN	15LF	15MF	15	20	25	32	40	50
Setting	kv	kv	kv	kv	kv	kv	kv	kv
0,5	0,05	0,33	0,36	0,44	0,67	0,79	1,04	0,88
0,6	0,06	0,34	0,39	0,50	0,71	0,86	1,15	1,00
0,7	0,06	0,36	0,42	0,55	0,76	0,93	1,26	1,12
0,8	0,07	0,37	0,45	0,61	0,81	1,00	1,38	1,24
0,9	0,07	0,39	0,48	0,66	0,85	1,08	1,49	1,36
1,0	0,08	0,40	0,51	0,72	0,90	1,15	1,60	1,48
1,1	0,09	0,44	0,56	0,77	0,98	1,28	1,76	1,77
1,2	0,10	0,47	0,61	0,82	1,06	1,41	1,91	2,06
1,3	0,11	0,51	0,66	0,86	1,14	1,55	2,06	2,35
1,4	0,12	0,54	0,71	0,91	1,22	1,68	2,21	2,65
1,5	0,13	0,58	0,76	0,96	1,30	1,82	2,36	2,94
1,6	0,14	0,61	0,81	1,01	1,38	1,95	2,51	3,23
1,7	0,15	0,65	0,86	1,06	1,46	2,08	2,66	3,52
1,8	0,16	0,69	0,92	1,12	1,54	2,22	2,81	3,81
1,9	0,17	0,72	0,97	1,17	1,62	2,35	2,96	4,10
2,0	0,18	0,76	1,02	1,22	1,70	2,48	3,11	4,39
2,1	0,19	0,83	1,09	1,09	1,83	2,70	3,35	4,93
2,2	0,20	0,90	1,16	1,09	1,96	2,91	3,58	5,47
2,3	0,21	0,97	1,24	1,09	2,08	3,12	3,81	6,02
2,4	0,23	1,05	1,31	1,09	2,21	3,33	4,05	6,56
2,5	0,24	1,12	1,38	1,56	2,34	3,55	4,28	7,10
2,6	0,25	1,19	1,63	1,70	2,47	3,76	4,51	7,64
2,7	0,26	1,26	1,89	1,85	2,60	3,97	4,75	8,18
2,8	0,27	1,34	2,14	1,99	2,73	4,19	4,98	8,72
2,9	0,28	1,41	2,40	2,14	2,86	4,40	5,21	9,27
3,0	0,30	1,48	2,65	2,28	2,99	4,61	5,45	9,81
3,1	0,31	1,58	2,98	2,47	3,13	4,87	5,76	10,57
3,2	0,32	1,67	3,31	2,65	3,28	5,13	6,08	11,33
3,3	0,33	1,77	3,63	2,84	3,42	5,39	6,40	12,09
3,4	0,35	1,86	3,96	3,02	3,57	5,66	6,72	12,85
3,5	0,36	1,96	4,29	3,21	3,72	5,92	7,03	13,61
3,6	0,37	2,05	4,558	3,42	3,86	6,18	7,35	14,37
3,7	0,39	2,15	4,826	3,63	4,01	6,44	7,67	15,13
3,8	0,40	2,25	5,094	3,83	4,16	6,70	7,99	15,89
3,9	0,41	2,34	5,362	4,04	4,30	6,96	8,30	16,65
4,0	0,42	2,44	5,63	4,25	4,45	7,22	8,62	17,41
4,1	0,45	2,51	5,82	4,41	4,61	7,57	9,01	18,29
4,2	0,47	2,59	6,02	4,57	4,78	7,91	9,39	19,17
4,3	0,49	2,67	6,21	4,73	4,94	8,26	9,78	20,06
4,4	0,52	2,74	6,41	4,89	5,11	8,60	10,17	20,94
4,5	0,54	2,82	6,6	5,05	5,27	8,95	10,55	21,82
4,6	0,56	2,89	6,756	5,20	5,44	9,29	10,94	22,71

DN	15LF	15MF	15	20	25	32	40	50
Setting	kv	kv	kv	kv	kv	kv	kv	kv
4,7	0,59	2,97	6,912	5,35	5,60	9,64	11,33	23,59
4,8	0,61	3,04	7,068	5,50	5,77	9,99	11,71	24,47
4,9	0,63	3,12	7,224	5,65	5,93	10,33	12,10	25,36
5,0	0,66	3,20	7,38	5,8	6,10	10,68	12,49	26,24
5,1	0,68	3,23	7,464	5,92	6,23	11,02	12,86	26,76
5,2	0,71	3,26	7,548	6,05	6,36	11,36	13,23	27,29
5,3	0,74	3,29	7,632	6,17	6,49	11,70	13,60	27,81
5,4	0,77	3,32	7,716	6,30	6,62	12,04	13,97	28,33
5,5	0,79	3,35	7,8	6,42	6,75	12,38	14,34	28,85
5,6	0,82	3,37	7,85	6,54	6,88	12,72	14,71	29,37
5,7	0,85	3,40	7,90	6,66	7,01	13,06	15,09	29,90
5,8	0,88	3,43	7,94	6,78	7,14	13,40	15,46	30,42
5,9	0,91	3,46	7,99	6,90	7,28	13,74	15,83	30,94
6,0	0,93	3,49	8,04	7,02	7,41	14,08	16,20	31,46
6,1					7,51	14,33	16,46	31,84
6,2					7,62	14,58	16,72	32,22
6,3					7,72	14,83	16,98	32,60
6,4					7,82	15,09	17,24	32,98
6,5					7,93	15,34	17,49	33,36
6,6					8,03	15,59	17,75	33,74
6,7					8,14	15,85	18,01	34,12
6,8					8,24	16,10	18,27	34,50
6,9					8,35	16,35	18,53	34,88
7,0					8,45	16,61	18,79	35,26
7,1					8,53	16,71	19,06	
7,2					8,61	16,81	19,33	
7,3					8,68	16,91	19,59	
7,4					8,76	17,01	19,86	
7,5					8,84	17,11	20,13	
7,6					8,91	17,21	20,40	
7,7					8,99	17,30	20,67	
7,8					9,07	17,40	20,94	
7,9					9,14	17,50	21,20	
8,0					9,22	17,60	21,47	
8,1						17,73	21,65	
8,2						17,85	21,84	
8,3						17,97	22,02	
8,4						18,09	22,20	
8,5						18,21	22,38	
8,6						18,34	22,56	
8,7						18,46	22,74	
8,8						18,58	22,92	
8,9						18,70	23,10	
9,0						18,83	23,29	

Please note: all diagrams are indicative in nature and do not claim to be complete.
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