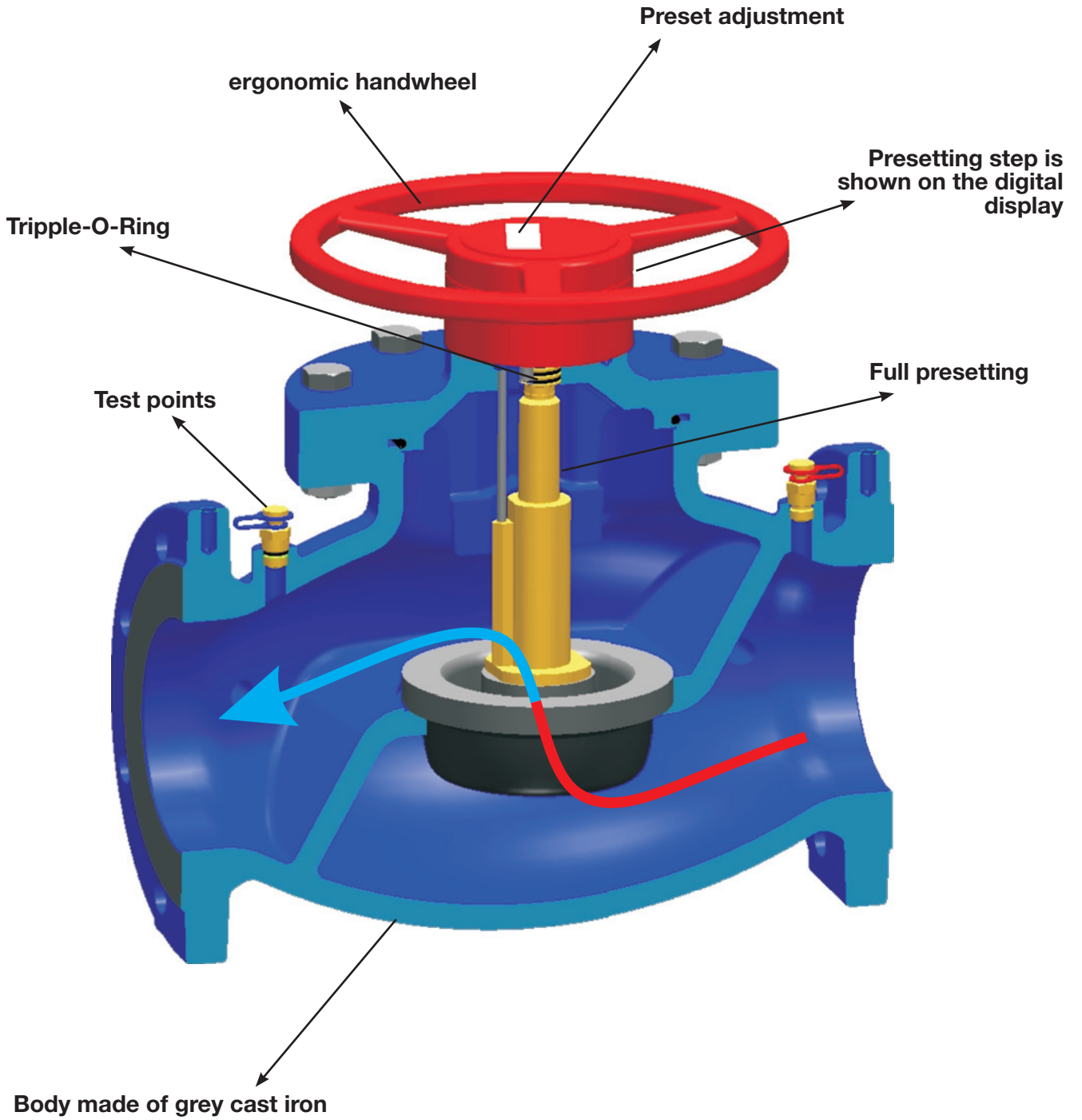


HERZ - Balancing Valves Cast Iron







4218 GF STRÖMAX-circuit regulating valve in a flanged version is available in nominal sizes of DN 50 to DN 300. All HERZ valves are factory-equipped with test points, which can be upgraded with extended test points. The flanged upper parts of HERZ 4218 GF STRÖMAX are made of cast iron.

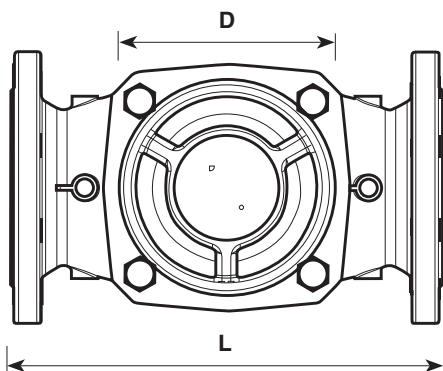
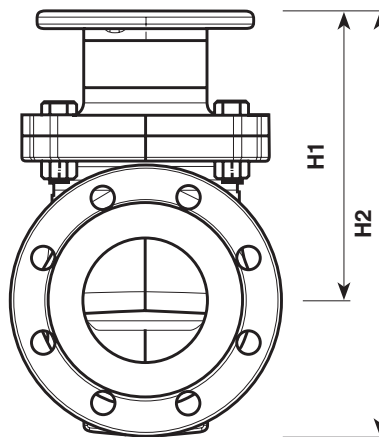
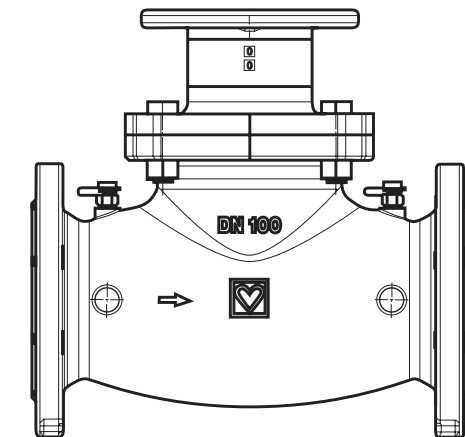
The pre-setting marker is fastened as a tag above the valve or pipe. The setting of the respective valve is marked by cutting or breaking off the teeth at the figures for full and partial turns. This permits checking and/or restoration of the original pre-setting made on the occasion of the system set-up after servicing without having to rely on documentation.

Presetting

1. Set the hand wheel to the desired position (Digital display on handwheel)
2. Red numbers are 1/10 of turn, blue numbers are a full turn.
3. The presetting spindle is beneath the cover. The spindle can be adjusted with an 8mm screwdriver. To preset turn anti clockwise up to stop. The valve is now able to close and open back to the preset position. Replace the cover on the handwheel.
4. The pre-setting marker is fastened as a tag above the valve or pipe. The setting of the respective valve is marked by cutting or breaking off the teeth at the figures for full and partial turns. This permits checking and/or restoration of the original pre-setting made on the occasion of system set-up after servicing without having to rely on documentation.

The setting of flowrate is achieved with a measuring device referring to the flow charts. Please see the operating instructions from the measuring device.

Minimum operating temperature - 10 °C
Maximum operating temperature 110 °C
Maximum operating pressure 16 bar



Order number 4218 GF		DN	L	H1	H2	D	kg
Standard characteristic	Linear characteristic						
1 4218 70	1 4218 80	50	230	169	252	150	16,8
1 4218 71	1 4218 81	65	290	186	279	150	23,6
1 4218 72	1 4218 82	80	310	208	307	175	30
1 4218 73	1 4218 83	100	350	235	344	175	-
1 4218 74	1 4218 84	125	400	260	385	265	63
1 4218 75	1 4218 85	150	480	310	450	265	88
1 4218 76	1 4218 86	200	600	400	569	450	161
1 4218 77	1 4218 87	250	730	453	655	450	-
1 4218 78	1 4218 88	300	850	520	783	450	383

STRÖMAX 4218 GF

Function

Two test points are fitted on the same side of the valve and factory sealed. This arrangement ensures the best accessibility in any position and optimum connection of measuring instruments.

Field of application

For hydraulic balancing in heating or cooling systems for isolating of manifolds, risers, heat exchangers, heating and cooling systems.

HERZ STRÖMAX- GF 4218 linear

Dn	50	65	80	100	125	150	200	250	300
kvs	49	75	110	165	241	372	704	812	1383
Pos.	kv	kv	kv	kv	kv	kv	kv	kv	kv
0,5	0,44	3,7	4,04	7,54	16,72	15,68	4,124	42,13	47,09
1,0	2,24	5,2	7,79	13,44	26,32	24,98	12,43	61,63	66,49
1,5	5,24	6,7	11,54	19,34	35,92	34,28	33,195	81,13	85,89
2,0	8,04	7,97	15,24	25,28	45,55	43,59	53,96	100,65	105,29
2,5	9,74	9,22	17,24	29,93	53,15	52,04	74,725	117,3	124,69
3,0	11,46	10,46	19,26	34,61	60,74	60,49	95,49	133,92	144,09
3,5	12,61	12,96	20,56	37,71	69,09	64,89	116,255	153,82	163,49
4,0	13,8	15,43	22,86	40,89	77,46	69,31	137,02	173,71	182,95
4,5	14,8	17,43	24,96	45,29	86,11	77,81	169,12	194,61	212,6
5,0	16	19,53	27,05	49,65	94,78	86,33	201,22	215,54	242,25
5,5	17,5	21,03	30,7	54,95	103,73	96,28	233,32	239,14	271,9
6,0	19,1	22,79	34,39	60,27	112,71	106,26	265,48	262,7	301,57
6,5	20,95	24,24	39,94	67,47	124,36	118,16	302,38	289,65	323,52
7,0	22,83	25,49	45,53	74,68	136,05	130,1	339,28	316,64	345,47
7,5	24,83	27,74	52,68	82,33	152	150,2	376,18	358,24	367,42
8,0	26,65	30,01	59,85	90,01	167,92	170,26	412,98	399,81	389,29
8,5	28,35	32,81	66,3	96,96	178,42	193,91	442,38	456,36	455,27
9,0	30,08	35,6	72,73	103,97	188,92	217,54	471,78	512,88	520,57
9,5	31,28	38,85	77,38	109,92	200,52	236,74	501,18	554,88	585,87
10,0	32,44	42,05	82,07	115,92	212,12	255,9	530,55	596,85	664,16
10,5	33,24	44,85	86,07	121,07	220,47	272	545,6	646,65	724,76
11,0	34,08	47,66	90,17	126,18	228,85	288,11	560,65	696,48	785,36
11,5	34,53	44,66	93,42	130,58	235,75	301,56	575,7	738,53	845,96
12,0	34,96	51,63	96,7	134,97	242,65	315,05	590,75	780,57	906,57
12,5		54,13	99,05	138,87	249,2	327,65	605,8	813,17	957,77
13,0		56,49	101,38	142,74	255,79	340,27	620,86	845,73	1008,97
13,5		58,49	104,08	146,74		347,57	634,71	886,63	1060,17
14,0		60,77	106,78	150,79		354,84	648,56	927,53	1111,34
14,5		62,47		154,54		363,04	662,41	949,88	1174,89
15,0		64,21		158,31		371,26	676,33	972,25	1238,44
15,5		65,56		161,46		380,41		993	1301,99
16,0		66,94		164,59		389,54		1013,7	1365,63
16,5				167,04				1039,3	1406,38
17,0				169,45				1064,89	14473,13
17,5								1073,79	1487,88
18,0								1082,72	1528,67
18,5									1571,57
19,0									1614,47
19,5									1657,37
20,0									1700,28
20,5									1721,43
21,0									1742,58
21,5									1763,73
22,0									1784,91

STRÖMAX 4218 GMF

The differential pressure is measured by an appropriate measuring device and the specific flow rate is determined. All HERZ-measuring computers directly determine the corresponding flow rate. The flow can be limited by default. The preset value remains the same even when the valve is closed. The presetting is displayed digitally on handwheel.

Function

Two test points are fitted on the same side of the valve and factory sealed. This arrangement ensures the best accessibility in any position and optimum connection of measuring instruments.

Field of application

For hydraulic balancing in heating or cooling systems for isolating of manifolds, risers, heat exchangers, heating and cooling systems.

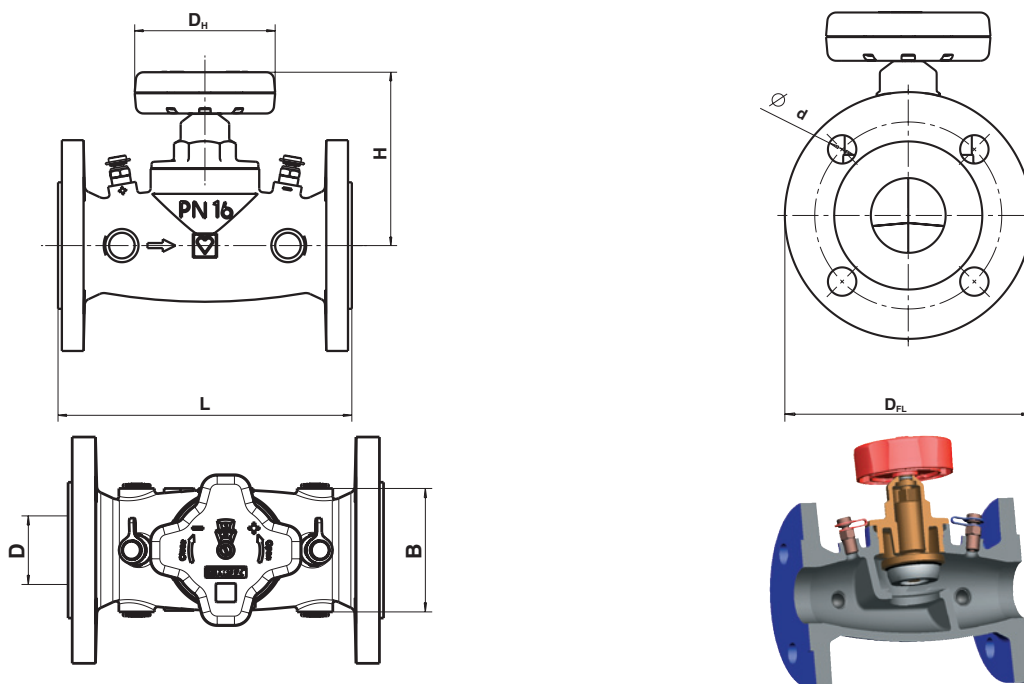
Presetting

The valve will be delivered in opened position. The pre-setting permits the maximum possible stroke. when the valve is fully closed, the hand wheel digital display will indicate 0.0

1. Set the hand wheel to the desired position (Digital display on handwheel).
2. Remove the hand wheel securing screw, the handwheel should not be removed.
3. The presetting spindle is now accessible, screw in with a screwdriver blade width 3 x 60 until stop position is reached.
4. Replace the hand wheel securing screw.
5. To mark the adjusted position on the presetting marker and fix it on the valve.

The setting of flowrate is achieved with a measuring device referring to the flow charts. Please see the operating instructions from the measuring device.

Minimum operating temperature - 10 °C
Maximum operating temperature 110 °C
Maximum operating pressure 16 bar



Order number 4218 GMF	DN	L	H	B	DH	DFL	D	d
1 4218 43	25	160	110	58	71	115	25	14
1 4218 44	32	180	110	64	71	140	30	19
1 4218 45	40	200	110	72	71	150	40	19
1 4218 46	50	230	135	90	110	165	50	19
1 4218 47	65	290	145	112	110	185	65	19
1 4218 48	80	310	145	116	110	200	80	19
1 4218 49	100	350	190	158	190	220	100	19
1 4218 50	125	400	230	188	190	250	125	19
1 4218 51	150	480	264	212	190	285	150	23

HERZ STRÖMAX 4218 GMF

DN	25	32	40	50	65	80	100	125	150
kvs	12,2	17,3	28,6	38	60,3	68,5	99,55	186,58	279,05
Position	kv	kv	kv	kv	kv	kv	kv	kv	kv
0,5	0,35	1,15	1,40	2,70	8,36	11,50	0,00	1,58	8,75
1,0	0,75	1,90	2,50	7,80	11,56	15,90	12,35	4,36	17,50
1,5	1,15	2,65	3,60	12,90	14,76	20,30	18,04	10,72	26,08
2,0	1,90	3,40	4,70	18,60	17,80	24,69	23,74	17,08	34,66
2,5	4,10	4,15	5,95	22,60	20,15	27,74	29,84	20,27	38,27
3,0	6,30	4,90	7,20	27,80	22,50	30,60	35,96	23,45	41,88
3,5	7,70	7,35	9,85	29,30	26,55	36,10	42,56	24,93	44,53
4,0	9,10	9,80	12,55	31,60	31,60	41,70	49,20	26,41	47,17
4,5	9,80	12,40	16,05	33,60	38,10	50,70	51,10	28,09	50,34
5,0	10,50	15,00	19,70	35,50	43,90	60,30	53,00	29,77	53,50
5,5	10,55	15,80	21,60	37,15	47,40	62,00	57,50	32,57	57,43
6,0	10,65	16,60	23,50	37,84	51,00	63,78	61,96	35,37	61,36
6,5	10,70		25,15		53,85	65,88	66,86	38,62	66,14
7,0	11,50		26,80		56,70	67,80	71,81	41,87	70,92
7,5	11,53		27,30		58,50		77,11	46,01	76,30
8,0	11,53		27,80		60,30		82,42	50,14	81,68
8,5			28,20				87,77	54,94	87,87
9,0			28,60				93,20	59,74	94,06
9,5							99,55	65,47	100,52
10,0								71,19	106,98
10,5								87,53	114,74
11,0								85,87	122,50
11,5								95,99	132,72
12,0								106,10	142,93
12,5								117,92	155,86
13,0								129,73	168,79
13,5								141,12	181,98
14,0								152,51	195,17
14,5								162,60	207,69
15,0								172,69	220,21
15,5								179,64	233,05
16,0								186,58	245,88
16,5									255,72
17,0									265,56
17,5									272,31
18,0									279,05

Flow measuring orifice plates
Function

The orifice plate made of stainless steel PN 16 and has two measuring valves. The design of the orifice is in accordance with BS 1042, the performance curve characteristics are according to BS 7350.

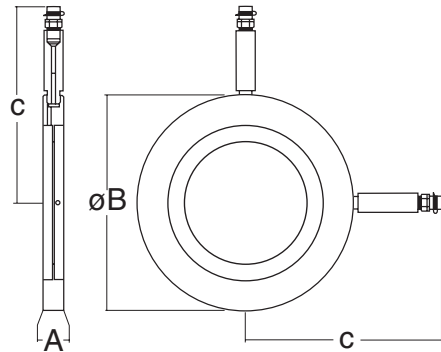
Field of application

HERZ orifice plates are installed in the circuits of the hot water central heating and cooling systems, and ensure the balance of the hydraulic circuits.

The orifice plates are used either in a supply or in a return pipe.

They are either closely coupled with a balancing valve HERZ to form a complete set or used in connection with an isolation valve HERZ.

The balancing is accomplished by setting the control valve during the measurements of the pressure drop at orifice.

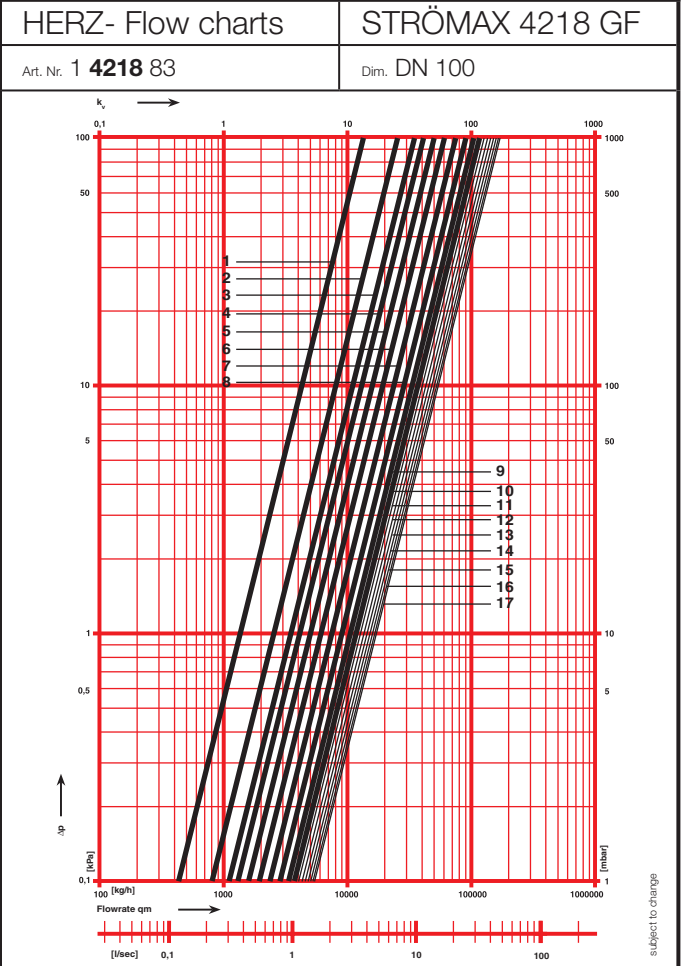
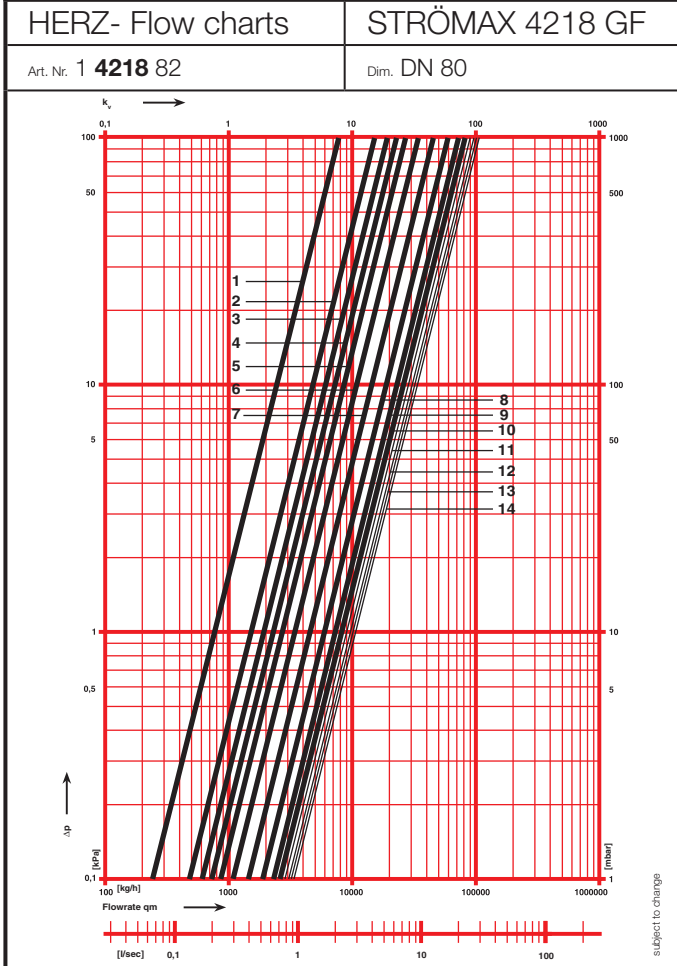
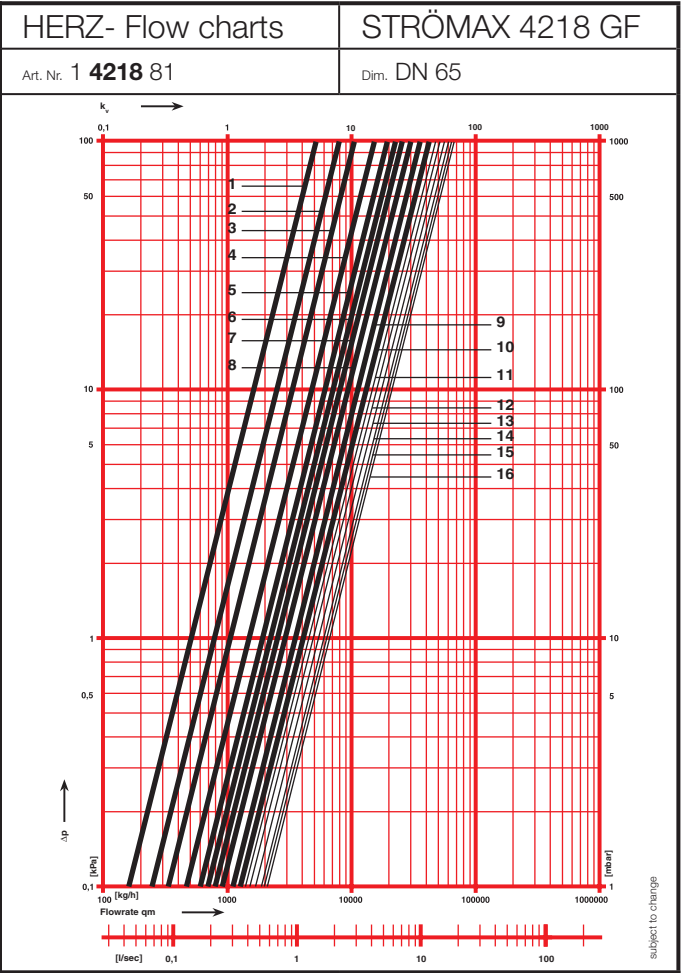
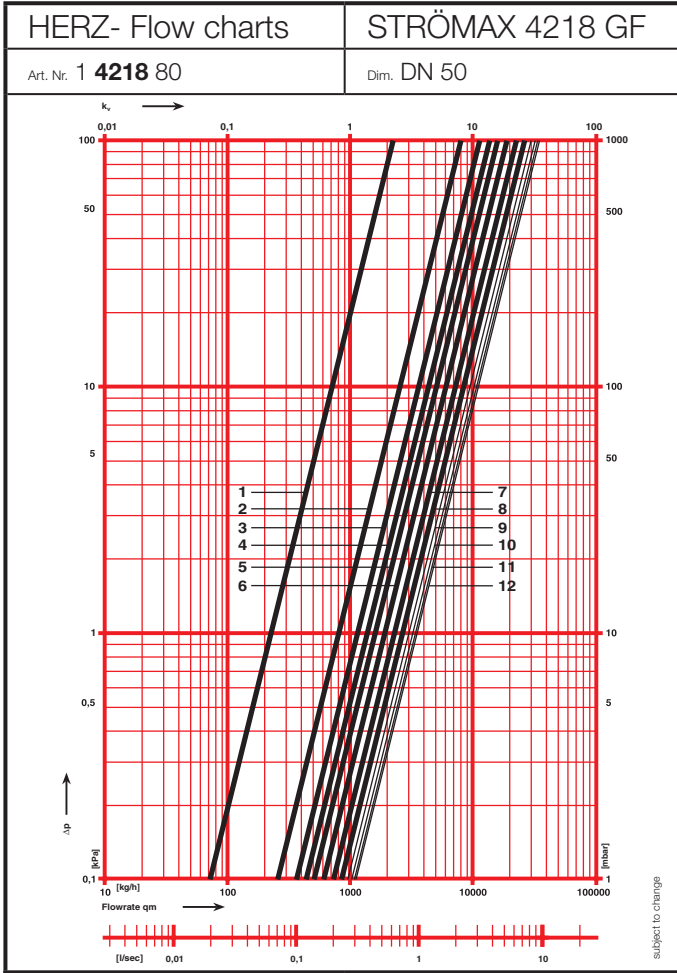

Benefits :

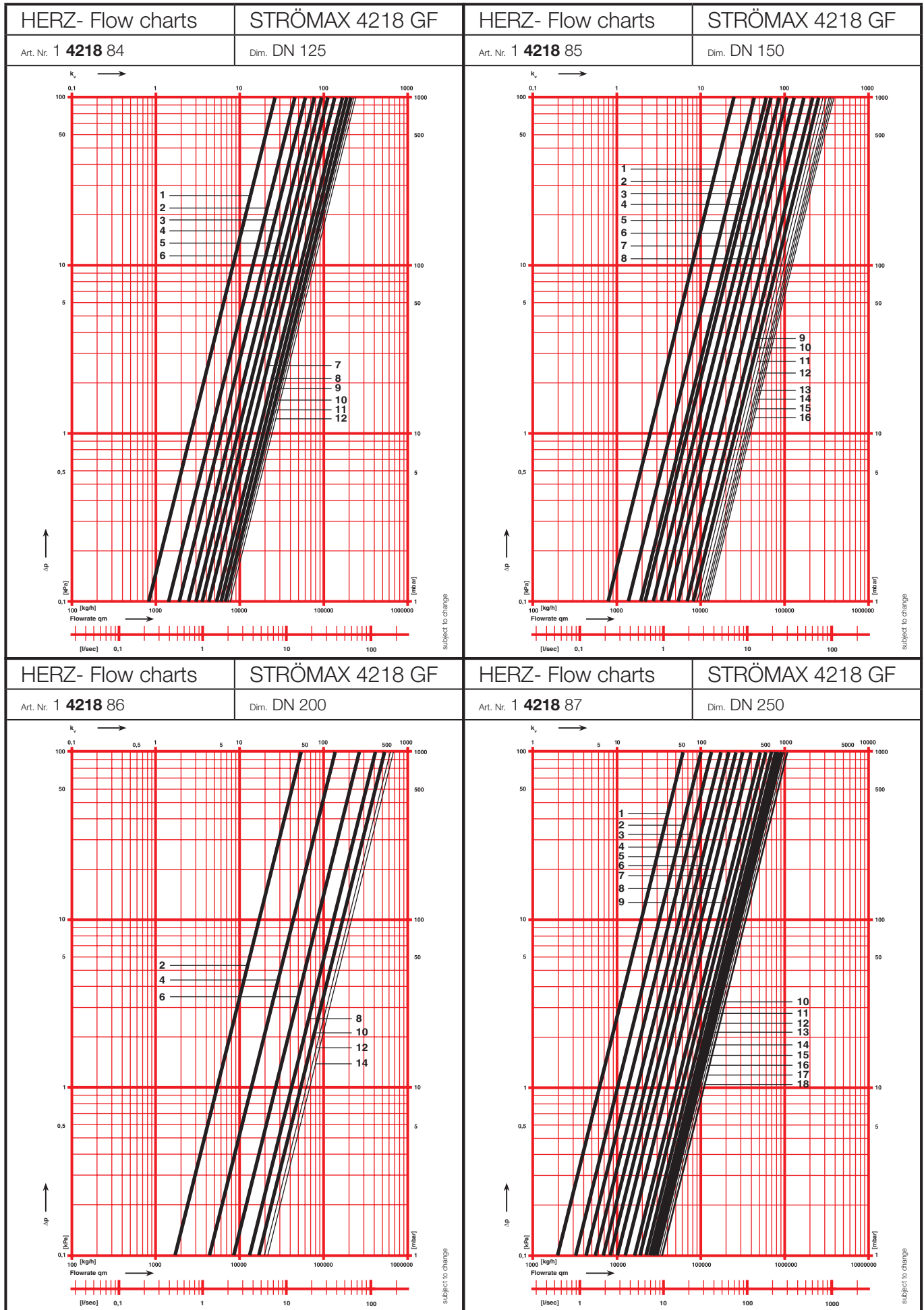
- Ease of use because of the use of only one characteristic of the orifice plate.
- Can be installed separately, e.g. as a fixed orifice.

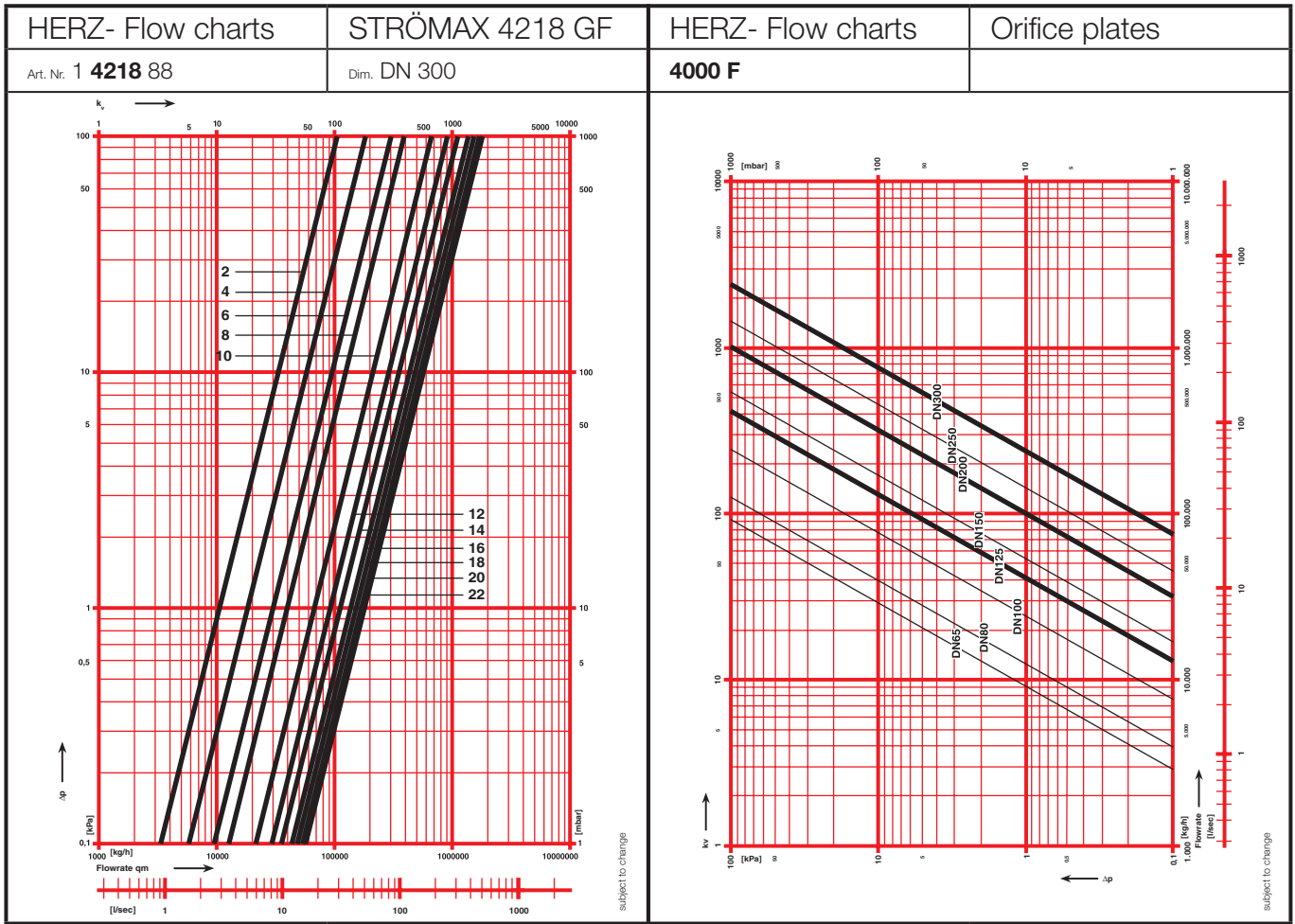
Maximum operating temperature **110 °C**
 Maximum operating pressure **16 bar**



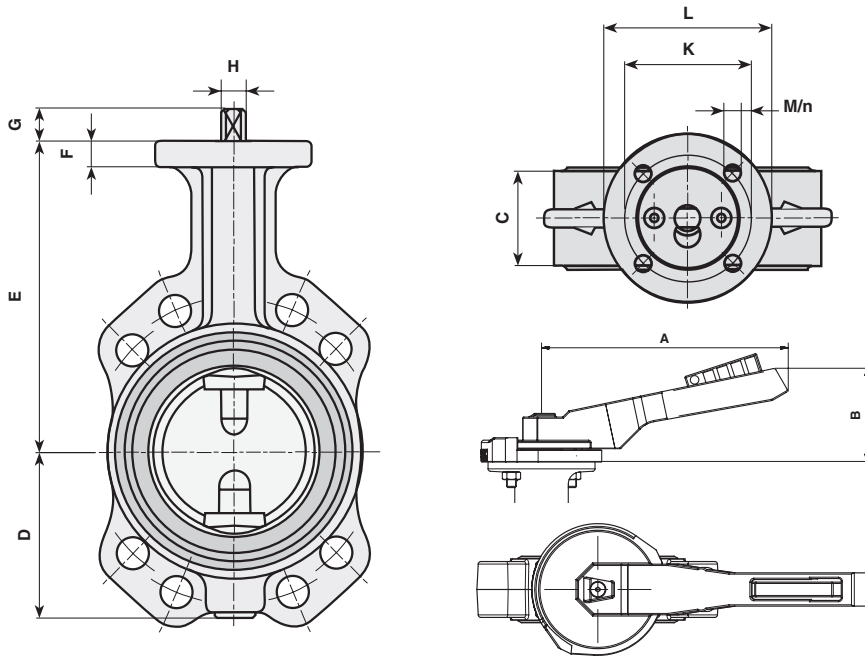
Order number Orifice plate	DN	A	B	C	kv	kg
1 4000 07	65	20	158	160	100,7	1,9
1 4000 08	80	20	166	170	133,8	2,2
1 4000 09	100	20	164	176	237,7	2,7
1 4000 10	125	20	194	191	339	3,2
1 4000 11	150	20	220	204	511	3,8
1 4000 12	200	20	275	232	858	5,5
1 4000 13	250	20	331	258	1235	7,0
1 4000 14	300	20	386	287	1793	10,0







			Order number
	Test point adaptors		1 0284 00
	Test point extension 1 Set = 2 Pcs	1/4	1 0284 10
	Test points for HERZ-STRÖMAX-Circuit regulating valves (manufactured from 2004), brass version, blue cap (return) for flow computer.	1/4	1 0284 01
	Test points for HERZ-STRÖMAX-Circuit regulating valves (manufactured from 2004), brass version, red cap (flow) for flow computer.	1/4	1 0284 02
	Test points for HERZ-STRÖMAX-Circuit regulating valves BrassExtended model for insulated valves up to 40mm version, blue cap (return) for flow computer.	1/4	1 0284 11
	Test points for HERZ-STRÖMAX-Circuit regulating valves. Brass version, red cap (flow) for flow computer. Extended model for insulated valves up to 40 mm.	1/4	1 0284 12
	Test points with draining function Brass version, red cap (flow).	1/4	1 0284 22
	Test points with draining function Brass version, blue cap (return).	1/4	1 0284 21
	Test points long version with draining function, blue cap	1/4	1 0284 23
	Test points long version with draining function, red cap	1/4	1 0284 24
	Presetting marker Plastic tag for marking the presetting step. Can be mounted on the valve or pipe.		1 6517 05
	Test points with pulse pipe connection brass version, blue cap (return) for flow computer.	1/4	1 0284 03
	Test points with pulse pipe connection brass version, red cap (flow) for flow computer.	1/4	1 0284 03



Lever dimensions		
DN	a	b
50	195	60
65	195	60
80	195	60
100	240	65
125	240	65
150	390	70
200	390	70

For the dimensions DN250 and DN 300 hand-wheel with worm gear is used

DN	Type BA	Type BB	A	B	C	D	E	~ kg Type BA	~ kg Type BB	ISO	F	G	H	K	L
50	1 4219 01	1 4219 11	48	94	43	68	125	3,2	3,6	F05	13	34	11	70	88
65	1 4219 02	1 4219 12	62	112	46	80,5	149	3,6	4,5	F05	12,5	34	11	70	88
80	1 4219 03	1 4219 13	76,7	131	46	88	158	4,2	5,8	F05	12,5	34	11	70	88
100	1 4219 04	1 4219 14	95	150	52	102	182	5,7	7,4	F07	15	34	14	70	88
125	1 4219 05	1 4219 15	118,6	179	56	127	201	7,6	9,5	F07	15	34	14	70	88
150	1 4219 06	1 4219 16	143,6	205	56	132	214	9,2	12	F07	15	34	14	70	88
200	1 4219 07	1 4219 17	193,6	262	60	145	245	14	19,3	F07	18	16	14	70	88
250	1 4219 08	1 4219 18	243,6	316	68	191	283	23,6	31,5	F10	20	16	17	102	130
300	1 4219 09	1 4219 19	293,6	366	78	216	308	32,1	41,8	F10	20	16	17	102	130

Minimum operating temperature - 20 °C
Maximum operating temperature 110 °C
Maximum operating pressure (DN 50 - 200) 16 bar (for water)
Maximum operating pressure (DN 250 - 300) 10 bar (for water)

HERZ butterfly valves are available in sizes of 50 to 300. The flow can be limited by default. The default settings are indicated by the position of the lever.

Function

The butterfly valves can be used as isolating and regulating valves, which is achieved by the lever locking in the notch plate. The lever is made of fiberglass-reinforced polyamide with spring-activated locking mechanism and integrated locking hole. The top flange is made for the standard gears and actuating drives according to an ISO 5211. The rubber liner protects the body against internal corrosion. No additional seals are required. After final mounting the body of the butterfly valve is tested on body strength, body leakage, seat tightness and functionality according to an ISO 5208.

Field of application

Suitable for water and air systems in heating, cooling, air conditioning and ventilation.

The butterfly valves have the body types
 Type "ZF, WT" GG, JL 1040, according to EN 1561
 Type "AF, LT": GGG, JS1030, according to EN 1563.
 The body has blue color (RAL 5000),
 Inside the body is a rubber liner made of EPDM in accordance with an ISO 1691, the disc is made of carbon steel, covered with nickel and the drive shaft split into 2 parts is made of Stainless Steel 1.4408 according to EN 10088. The valves are available in Semi-lugged (type ZF, WT) or Fully-lugged (type AF, LF) versions.

Type ZF, WT

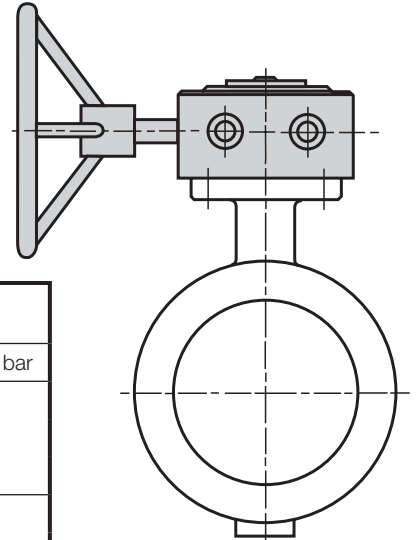


Type AF, LT



Handwheel with a worm gear and actuating drives

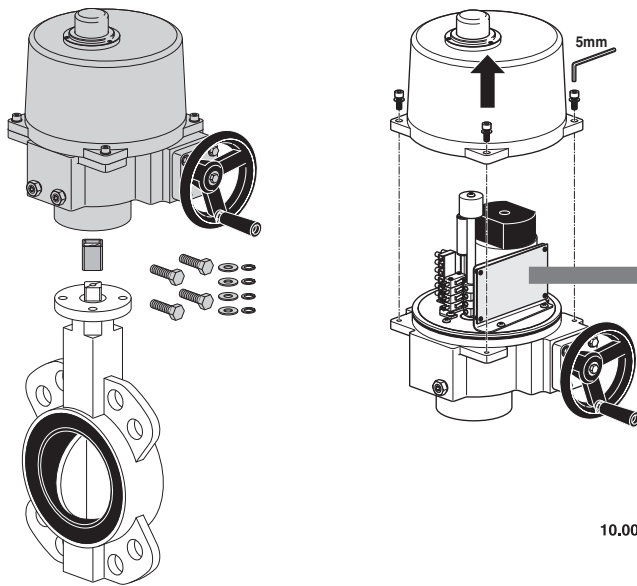
DN	Type	Connection according to ISO 5211	A	B	C	~kg
50 - 80	WK 1	F05	100	104	21	1
100 - 200	WK 2	F07	125	118	29	2
250 - 300	WK 3	F10	315	203	37	3



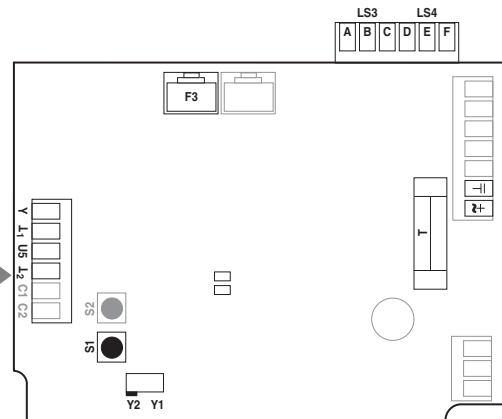
Actuating drives (BELIMO) for HERZ butterfly valves

DN	Dim.	Necessary force, Nm			Slower actuator, 150 s			Faster actuator (15...25 s)		
		6 bar	10 bar	16 bar	6 bar	10 bar	16 bar	6 bar	10 bar	16 bar
50	2"	12	13	13	SM230A, AF230			SY1-230-3-T		
65	2,5"	18	18	20						
80	3"	25	26	28	GM230A			SY2-230-3-T		
100	4"	39	41	44	GM230A					
125	5"	65	69	76				SY3-230-3-T		
150	6"	91	97	110						
200	8"	180	190	210				SY4-230-3-T		
250	10"	275	315							
300	12"	390	440					SY4-230-3-T	SY5-230-3-T	

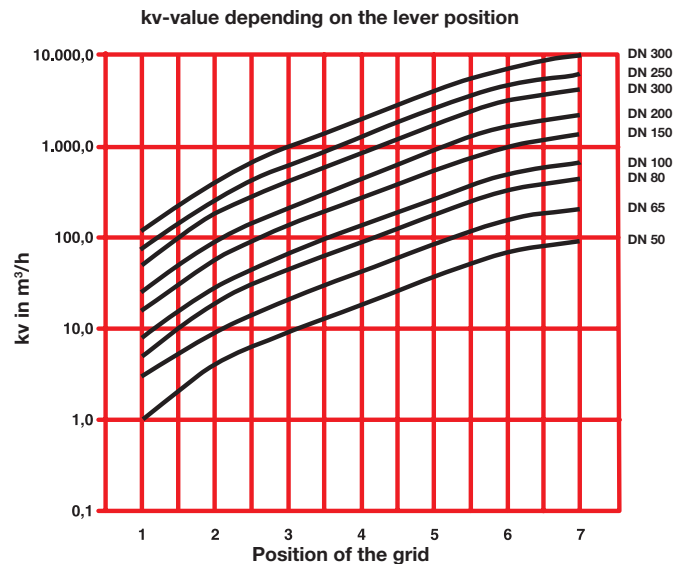
Mounting scheme



Electrical connection



DN	Dim.	kv	zeta
50	2"	91 m³/h	1,18
65	2,5"	206 m³/h	0,66
80	3"	436 m³/h	0,34
100	4"	660 m³/h	0,36
125	5"	1300 m³/h	0,22
150	6"	2100 m³/h	0,18
200	8"	4100 m³/h	0,15
250	10"	6090 m³/h	0,17
300	12"	9570 m³/h	0,14





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