

Globe Valve

BOA-H

PN 16/25
DN 15-350
With Bellows
With flanged ends

Flow Characteristics



Legal information/Copyright

Flow Characteristics BOA-H

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Globe Valves


Bellows-type Globe Valves to DIN/EN

BOA-H



Flow Characteristics

The characteristic curves are based on water with a temperature of 5 to 30 °C. The flow velocity (v) in the valve passage (DN) should not exceed 4 m/s.

 Some of the Kv values mentioned are not represented in the diagrams.

Description of units

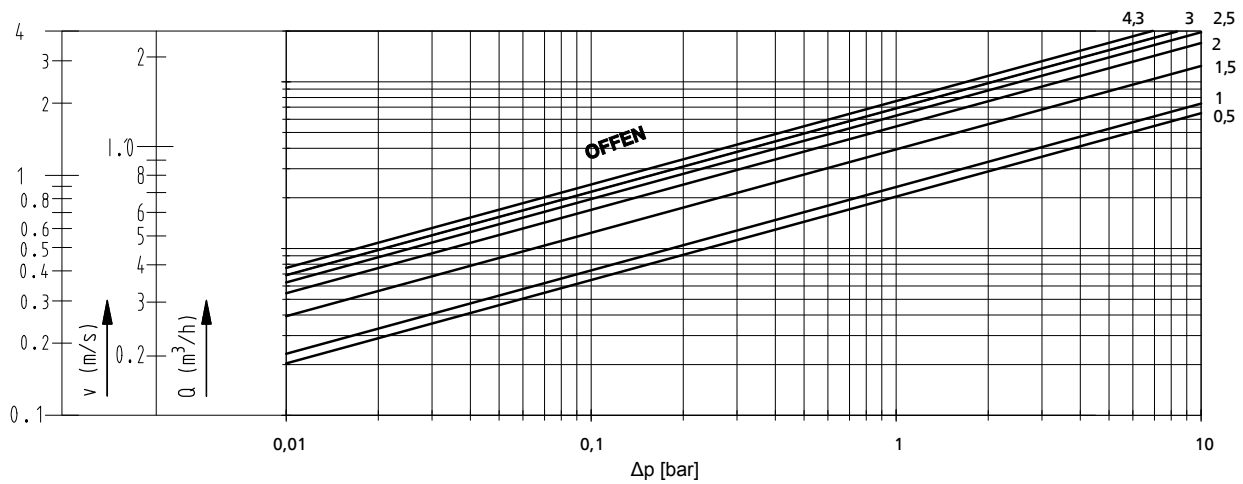
Unit	Description
Q	Volume flow rate in m ³ /h
V	Flow velocity in m/s

BOA-H mit Drosselkegel (Standardkegel bei DN 15 bis DN 100)

DN 15, PN 16/25

Selection table

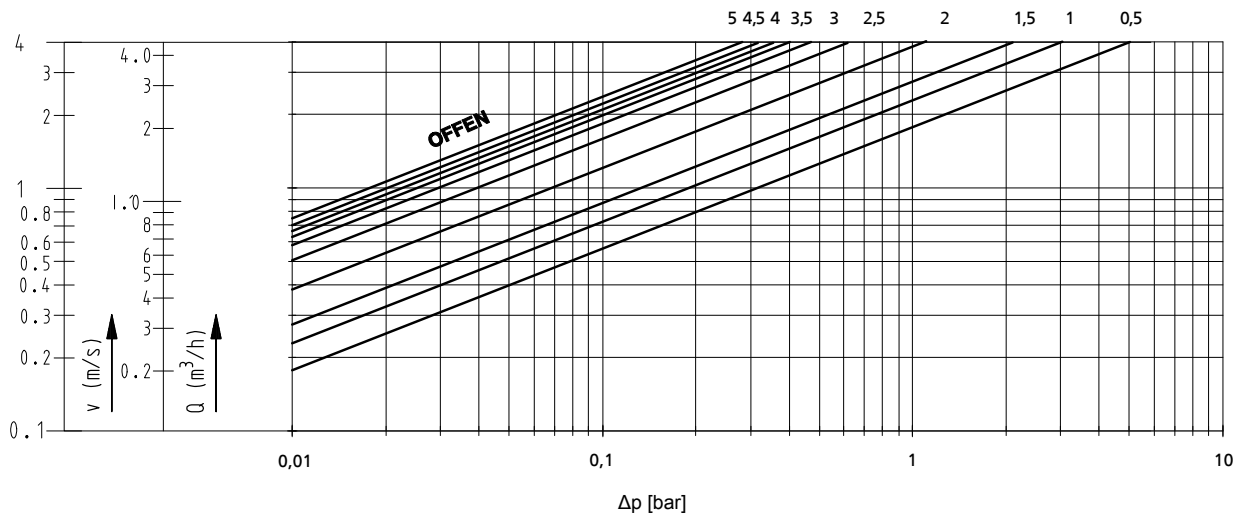
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
4,9	3,3	4,3
4,7	3,6	4
4,4	4,3	3,5
4,0	5,0	3
3,4	6,9	2,5
2,5	12,7	2
1,8	24,5	1,5
1,5	35,3	1
1,3	47,0	0,5



DN 20, PN 16/25

Selection table

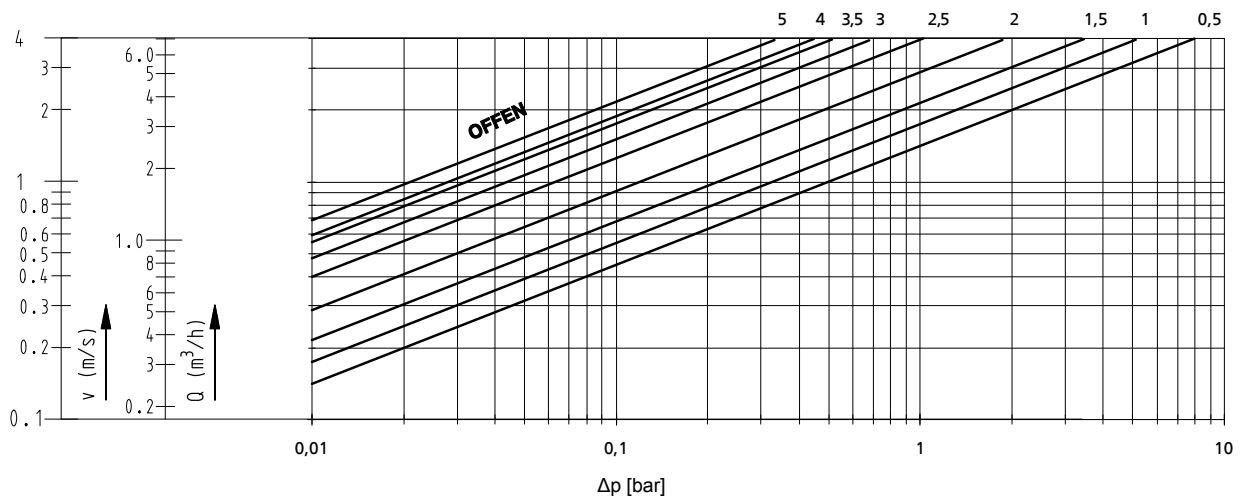
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
8,5	3,5	5
7,9	4,0	4,5
7,5	4,4	4
7,1	5,0	3,5
6,6	5,7	3
5,7	7,7	2,5
4,3	13,6	2
3,1	26,1	1,5
2,6	38,3	1
2,0	62,7	0,5



DN 25, PN 16/25

Selection table

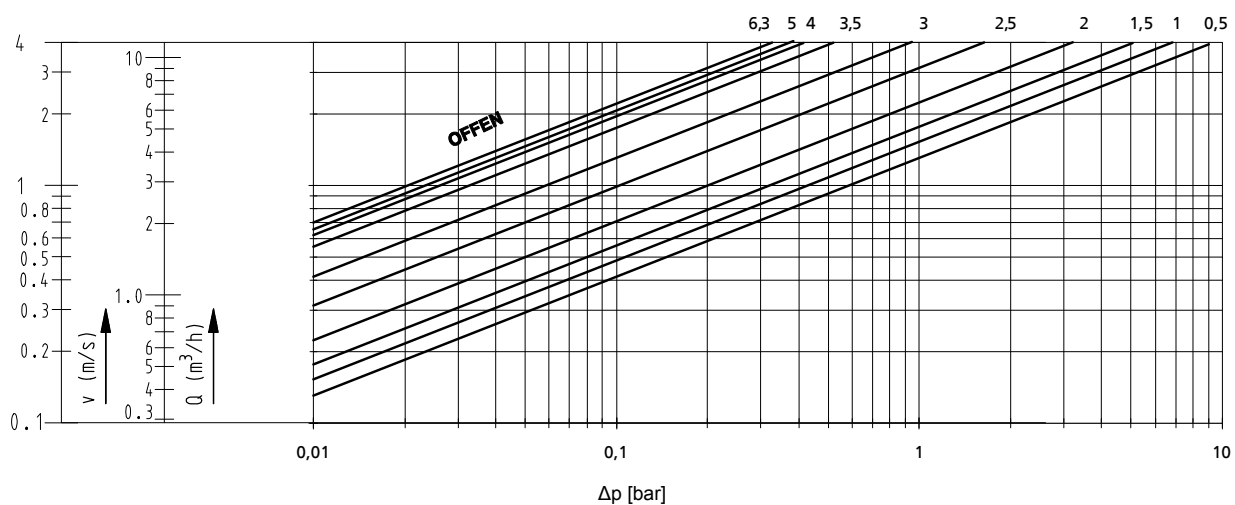
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
12,1	4,2	5
11,3	4,8	4,5
10,5	5,6	4
9,8	6,4	3,5
8,6	8,4	3
7,0	12,5	2,5
5,1	23,5	2
3,8	43,3	1,5
3,1	63,7	1
2,5	98,0	0,5



DN 32, PN 16/25

Selection table

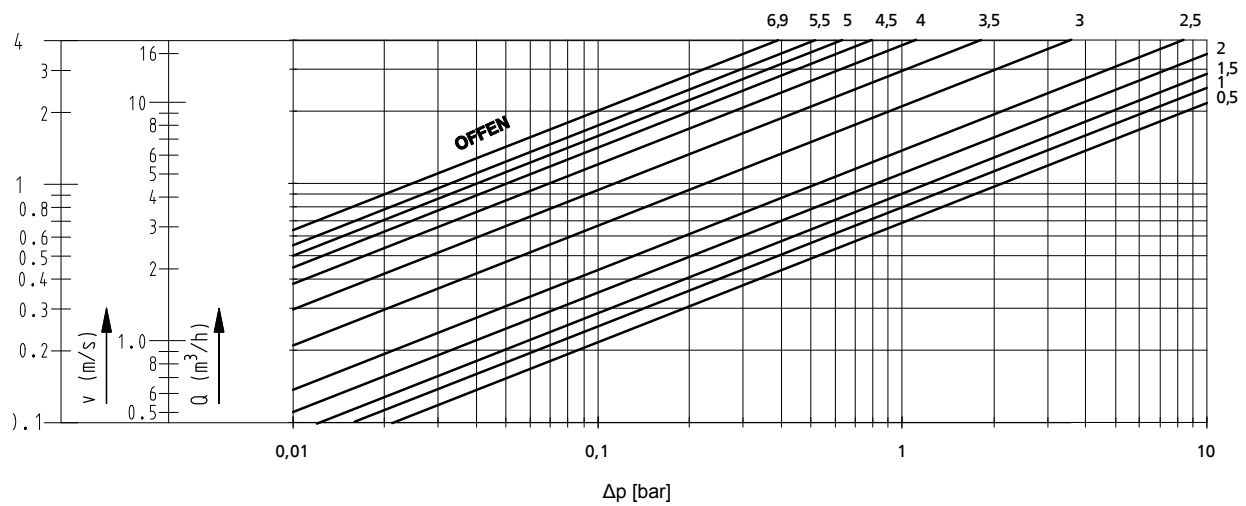
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
20,2	4,0	6,3
20,0	4,1	6
19,8	4,2	5,5
19,0	4,6	5
17,8	5,2	4,5
16,0	6,4	4
14,3	8,0	3,5
12,0	11,4	3
9,0	20,3	2,5
6,5	39,0	2
5,1	63,5	1,5
4,4	85,0	1
3,8	114,0	0,5



DN 40, PN 16/25

Selection table

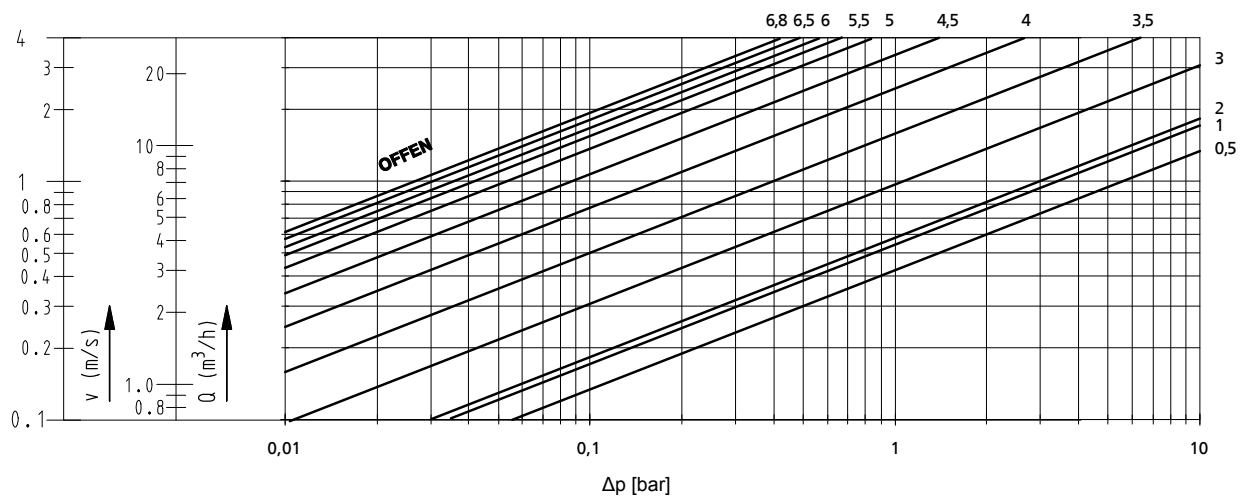
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
28,8	4,8	6,9
28,3	5,0	6,5
27,8	5,2	6
25,0	6,4	5,5
22,6	8,0	5
20,2	9,8	4,5
17,2	13,6	4
13,4	22,3	3,5
9,5	44,5	3
6,2	104,5	2,5
5,0	160,0	2
4,1	240,0	1,5
3,6	309,0	1
3,1	417,0	0,5



DN 50, PN 16/25

Selection table

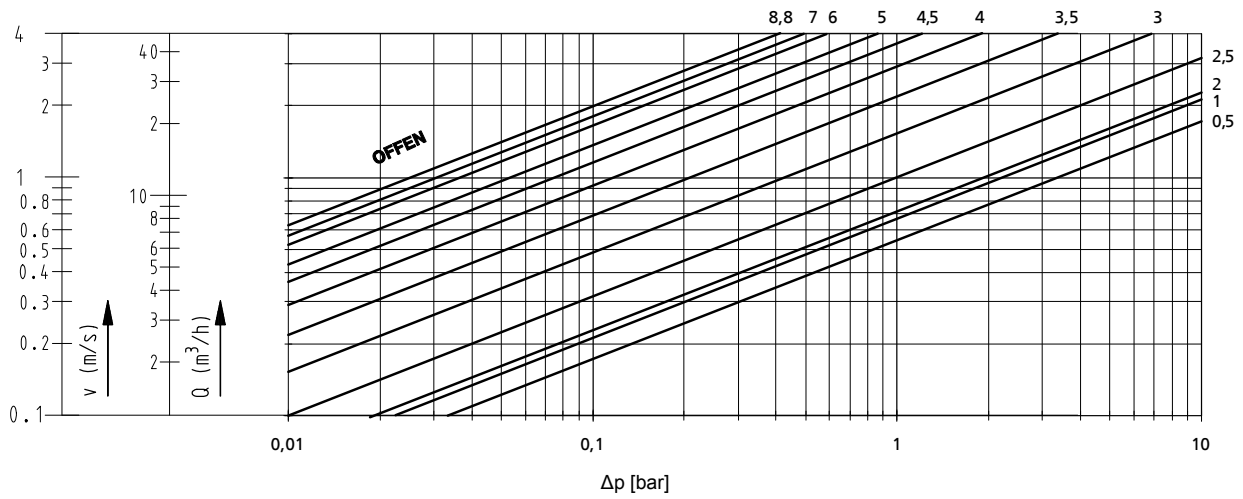
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
43,4	5,2	6,8
40,4	6,0	6,5
37,4	7,0	6
34,6	8,2	5,5
30,4	10,6	5
24,0	17,0	4,5
17,3	32,7	4
11,2	78,0	3,5
6,8	212,0	3
4,3	530,0	2,5
4,1	583,0	2
3,9	644,0	1,5
3,8	678,0	1
3,0	1088,0	0,5



DN 65, PN 16/25

Selection table

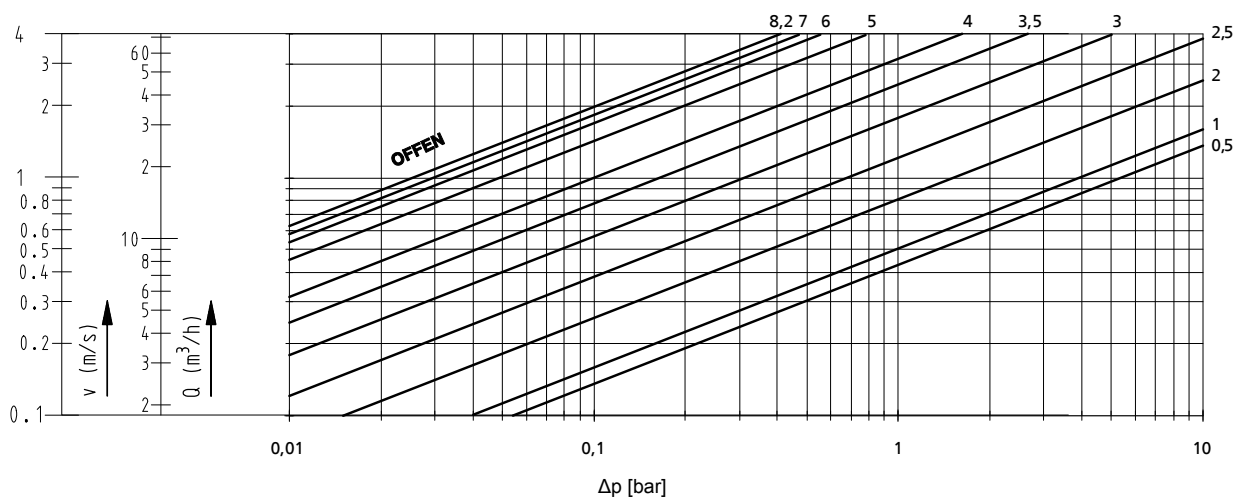
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
74,8	5,0	8,5
72,9	5,3	8
70,0	5,7	7,5
68,0	6,1	7
64,5	6,7	6,5
62,2	7,3	6
57,5	8,5	5,5
51,3	10,6	5
43,6	14,7	4,5
35,0	22,8	4
26,0	41,4	3,5
18,2	84,5	3
12,0	194,3	2,5
8,6	378,0	2
8,0	438,0	1
6,5	662,0	0,5



DN 80, PN 16/25

Selection table

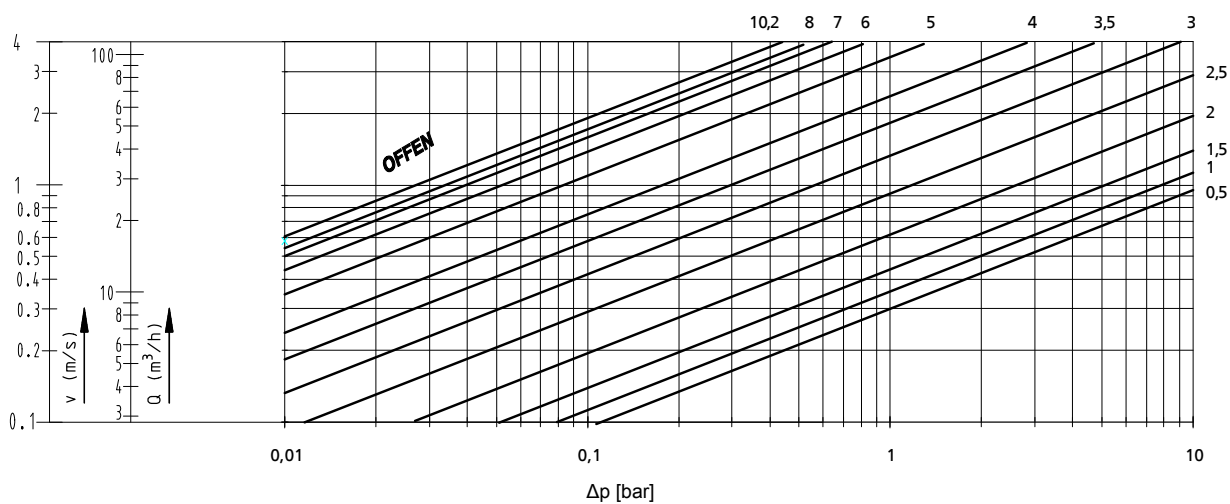
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
113,3	5,0	8,2
111,0	5,2	8
108,0	5,5	7,5
105,2	5,8	7
101,8	6,2	6,5
97,2	6,8	6
90,2	7,9	5,5
81,4	9,7	5
70,5	12,9	4,5
57,2	19,6	4
44,5	32,4	3,5
32,3	61,5	3
22,0	132,2	2,5
14,7	297,0	2
9,1	775,0	1
7,8	1055,0	0,5



DN 100, PN 16/25

Selection table

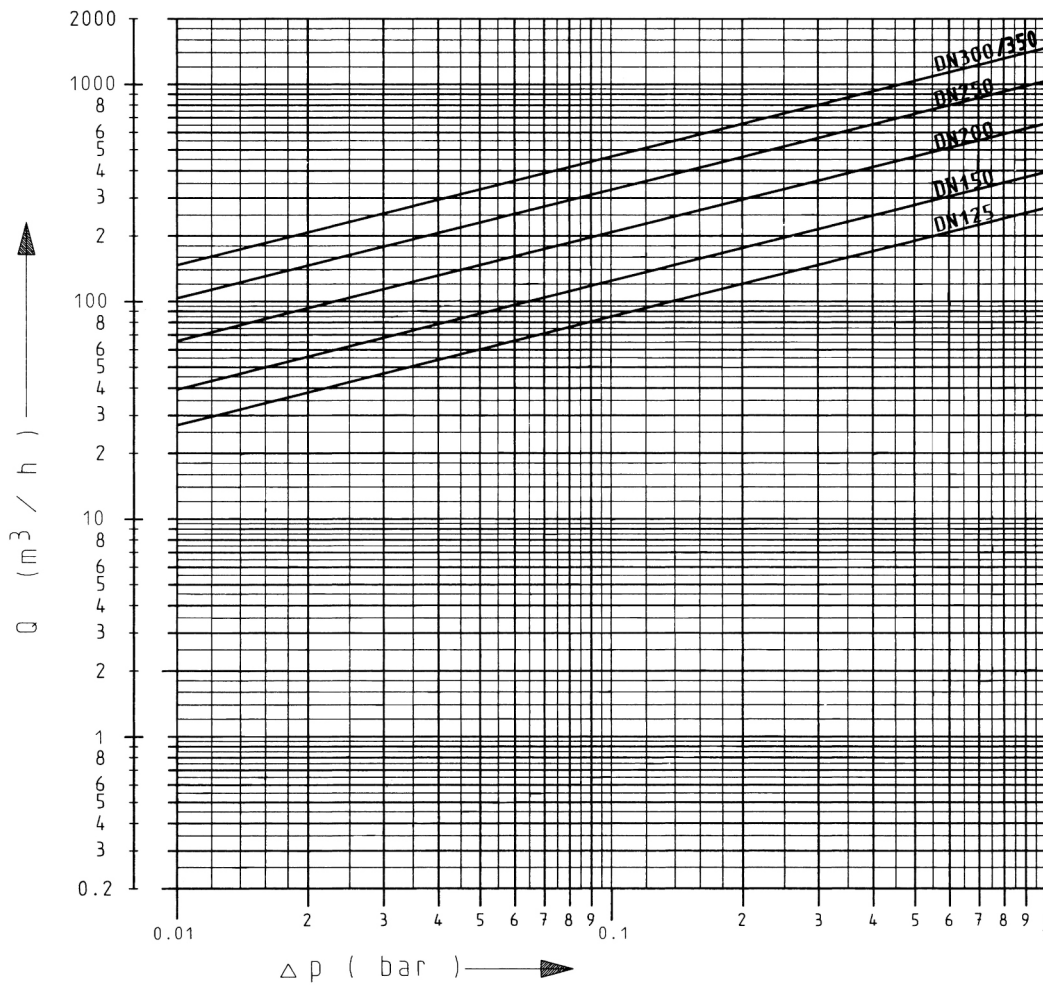
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
170,3	5,4	10,2
163,0	5,9	9
153,0	6,7	8
141,0	7,9	7
123,0	10,3	6
98,0	16,3	5
67,0	35,0	4
51,6	59,0	3,5
37,5	111,5	3
26,0	234,0	2,5
17,5	512,0	2
12,4	1019,0	1,5
10,0	1536,0	1
8,5	2169,0	0,5



BOA-H mit Absperrkegel (Standardkegel bei DN 125 bis DN 350)

Selection table for fully open valve disc

Kv [m ³ /h]	Resistance coefficient [ζ]	DN	Qmax. [M/h]at ³ /h at v perm. = 4 m/s
270	5,4	125	180
393	5,2	150	255
657	5,8	200	450
1035	5,7	250	710
1466	5,9	300	1020
1466	10,9	350	1385

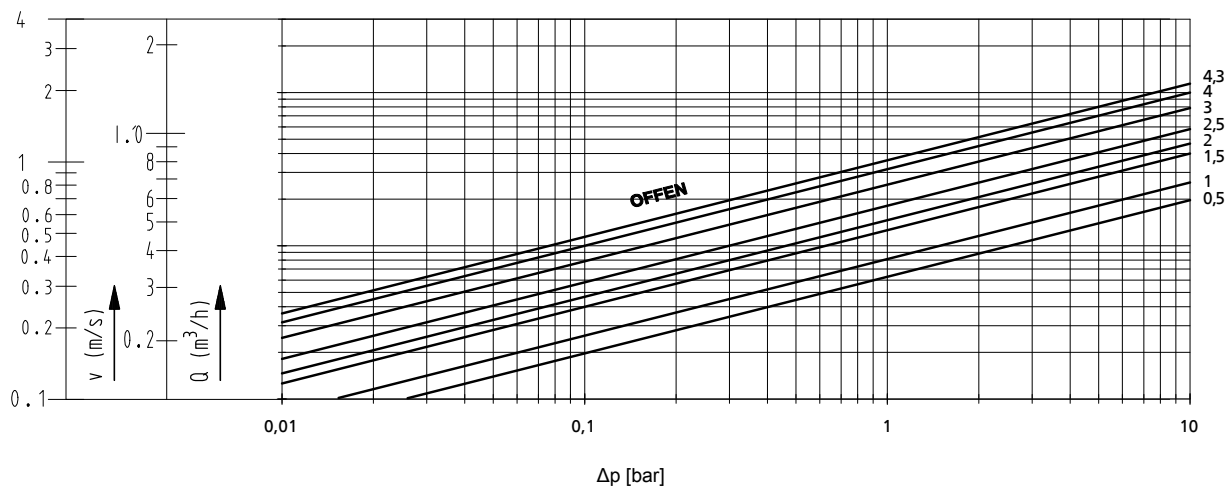


BOA-H mit Kronenkegel (sitzgeführter Vollandrosselkegel als Variante)

DN 15, PN 16/25

Selection table

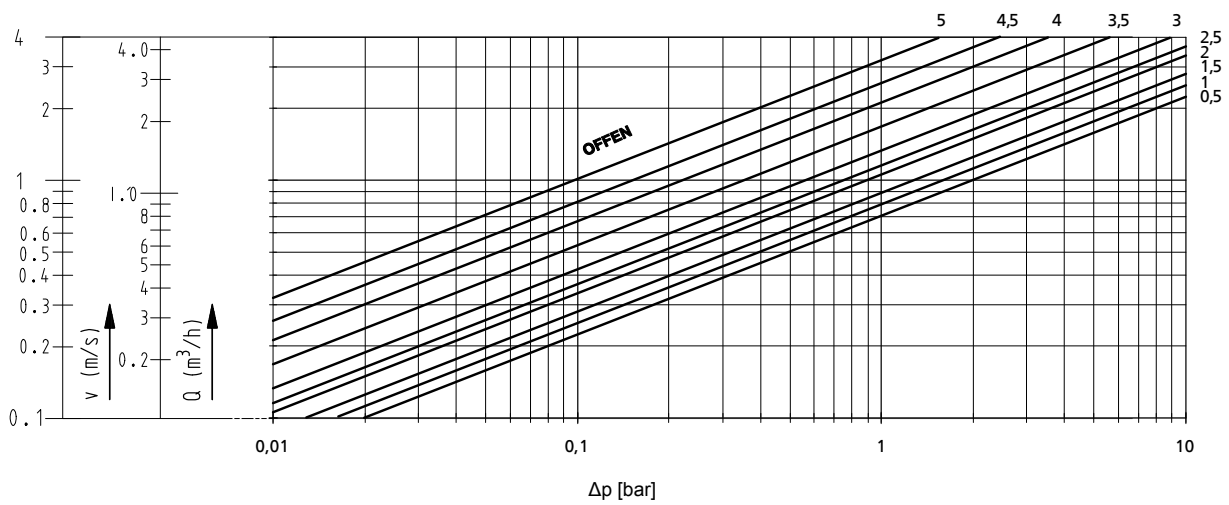
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
2,30	15	4,3
2,00	20	4
1,60	31	3,5
1,15	60	3
0,93	92	2,5
0,80	124	2
0,65	188	1,5
0,52	294	1
0,40	496	0,5



DN 20, PN 16/25

Selection table

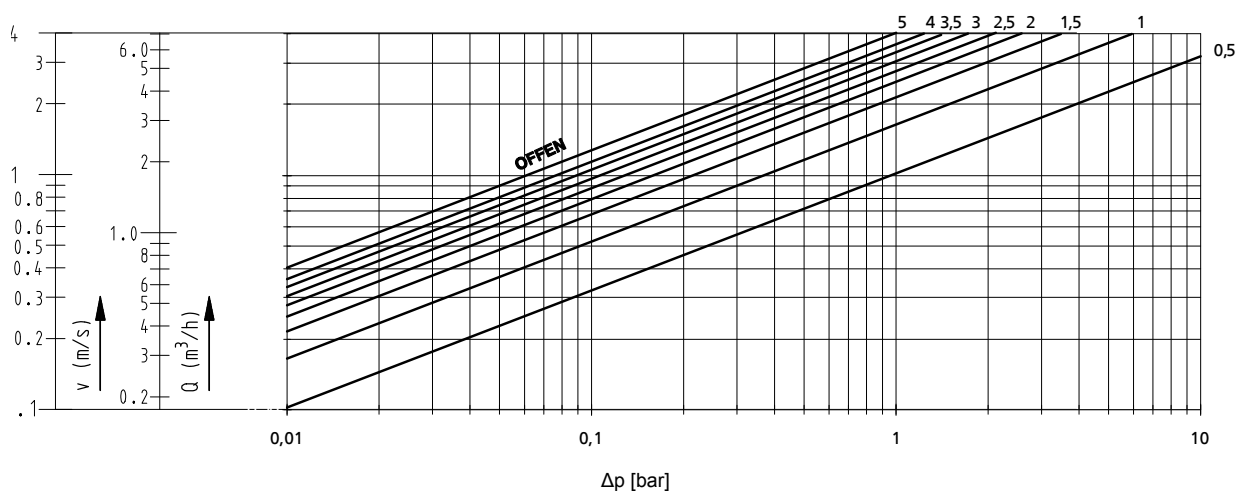
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
3,6	19,4	5
2,9	30,0	4,5
2,4	43,8	4
1,9	69,5	3,5
1,5	111,4	3
1,3	148,4	2,5
1,2	190	2
1,0	251	1,5
0,9	315	1
0,8	438	0,5



DN 25, PN 16/25

Selection table

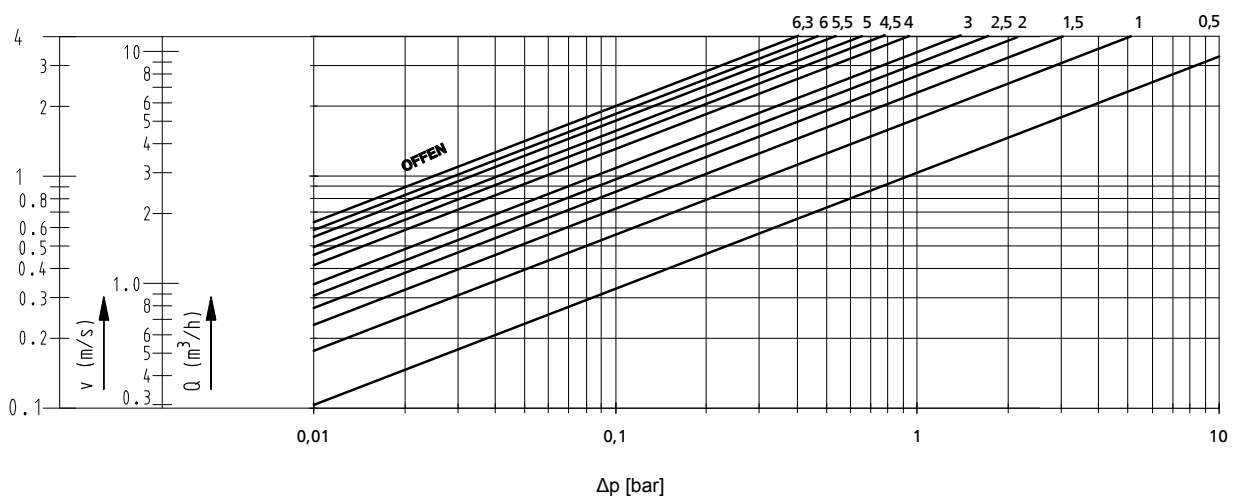
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
7,1	12,1	5
6,8	13,6	4,5
6,4	14,5	4
5,9	17,6	3,5
5,4	21,4	3
4,9	26,6	2,5
4,4	31,6	2
3,8	38,3	1,5
2,9	73,0	1
1,8	189,0	0,5



DN 32, PN 16/25

Selection table

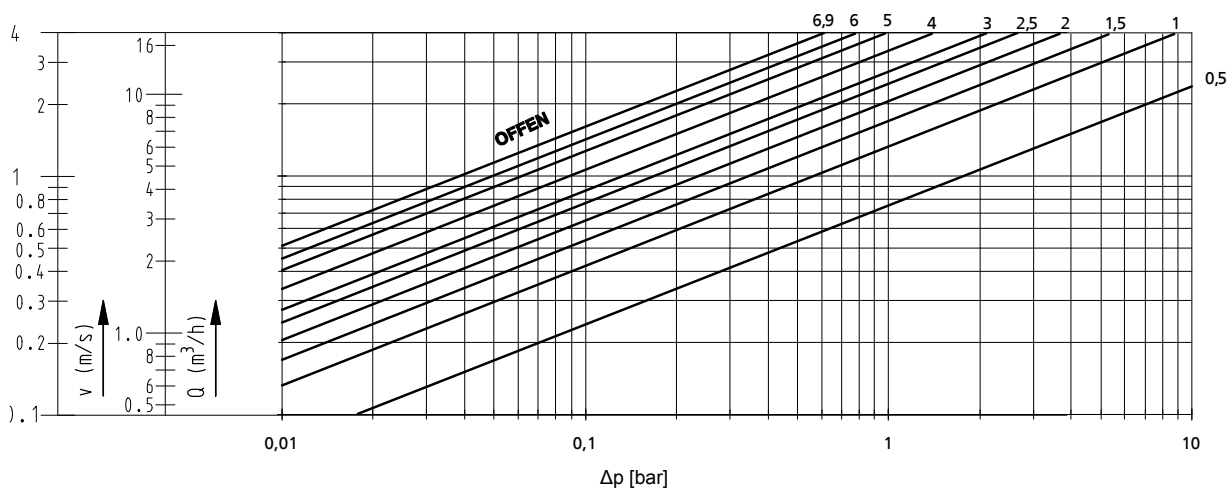
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
18,2	5,0	6,3
17,0	5,7	6
15,8	6,6	5,5
14,3	8,0	5
13,3	9,4	4,5
11,9	11,6	4
10,7	14,4	3,5
9,9	16,8	3
8,8	21,2	2,5
7,8	27,4	2
6,6	37,7	1,5
5,1	62,2	1
3,0	183,0	0,5



DN 40, PN 16/25

Selection table

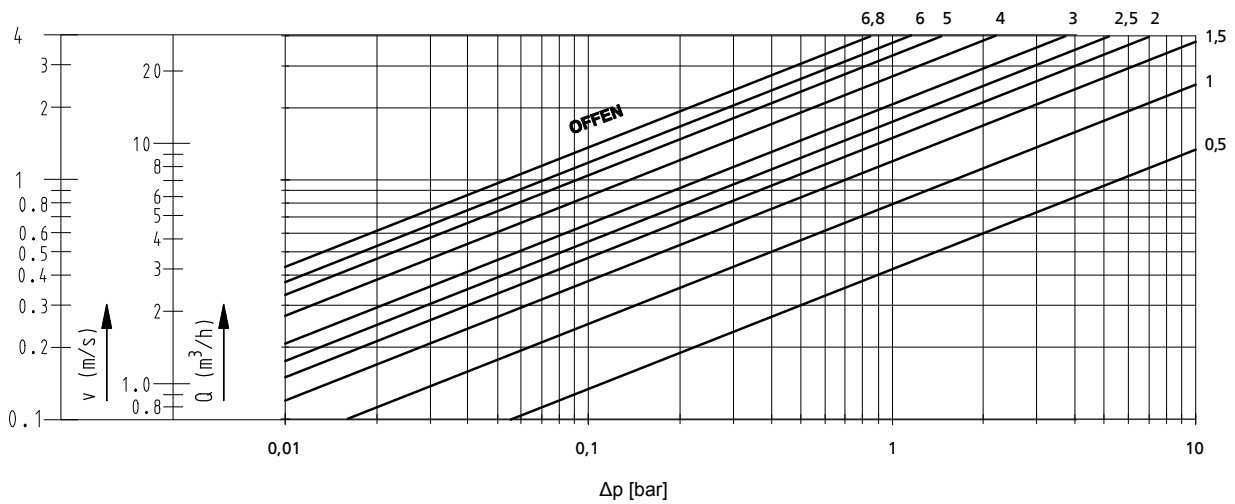
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
23,0	7,6	6,9
21,7	8,6	6,5
20,3	9,7	6
19,1	11,0	5,5
18,1	12,2	5
16,8	14,2	4,5
15,2	17,4	4
13,8	21,0	3,5
12,4	25,9	3
11,0	33,2	2,5
9,3	46,1	2
7,7	68,4	1,5
6,0	111,4	1
3,4	345,0	0,5



DN 50, PN 16/25

Selection table

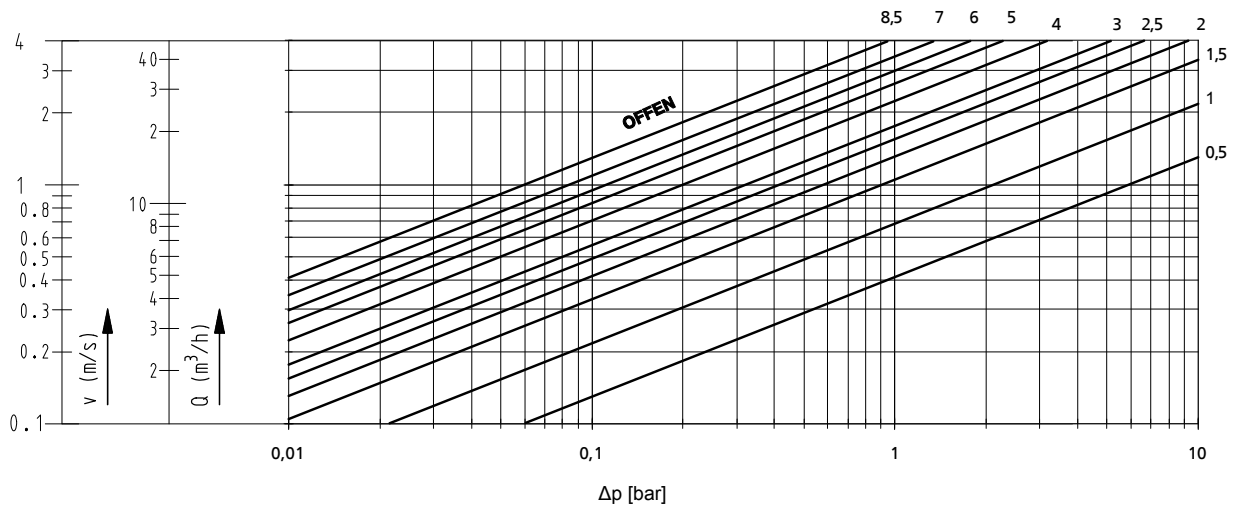
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
30,5	10,5	6,8
28,5	12,1	6,5
26,5	14,0	6
25,0	15,7	5,5
23,3	18,0	5
21,5	21,2	4,5
19,2	26,6	4
16,7	35,1	3,5
14,6	46,1	3
12,3	64,7	2,5
10,6	88,0	2
8,4	139,8	1,5
5,6	311,0	1
3,0	1088,0	0,5



DN 65, PN 16/25

Selection table

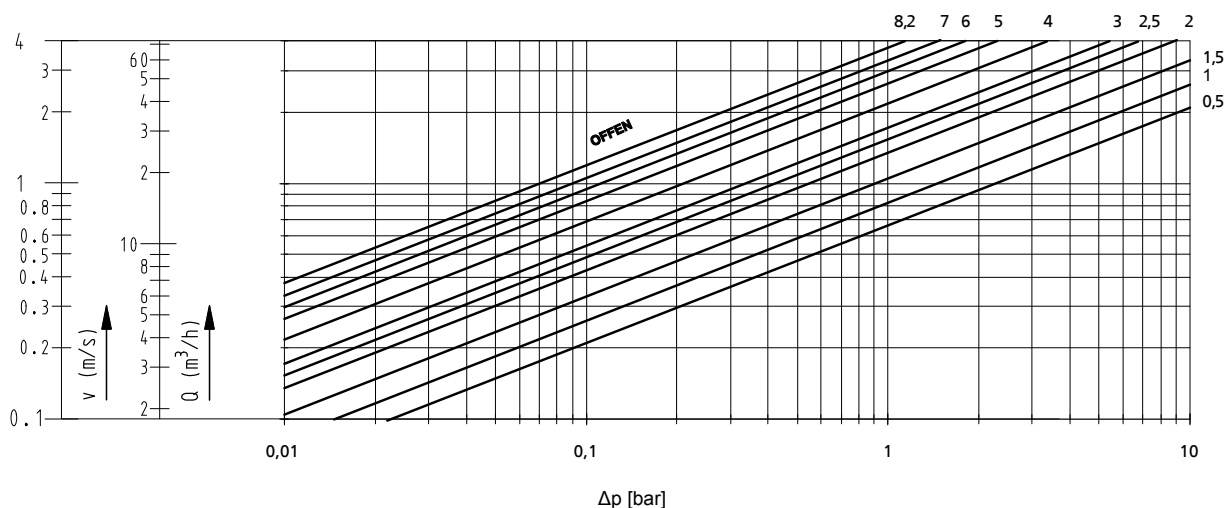
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
48,8	10,5	8,5
45,6	13,5	8
43,2	15,0	7,5
41,0	16,6	7
38,6	33,2	6,5
35,6	22,1	6
33,5	25,0	5,5
31,6	28,0	5
29,4	32,4	4,5
26,6	39,5	4
24,0	48,6	3,5
21,0	63,5	3
18,5	81,8	2,5
15,6	115,0	2
12,5	179,0	1,5
8,2	416,0	1
4,9	1165,0	0,5



DN 80, PN 16/25

Selection table

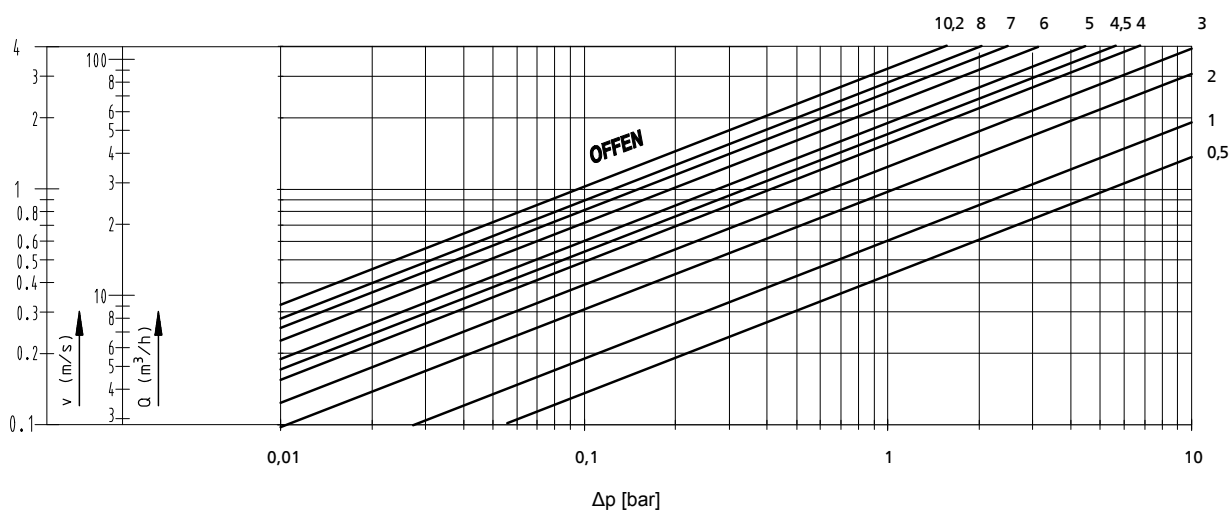
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
68,0	13,9	8,2
66,0	14,7	8
63,0	16,2	7,5
60,0	17,8	7
56,7	20,0	6,5
54,0	22,0	6
50,0	25,7	5,5
48,0	27,9	5
44,0	31,7	4,5
39,5	41,2	4
35,0	52,4	3,5
31,0	66,8	3
27,8	83,0	2,5
24,4	108,0	2
19,0	177,8	1,5
15,0	285,0	1
12,0	446,0	0,5



DN 100, PN 16/25

Selection table

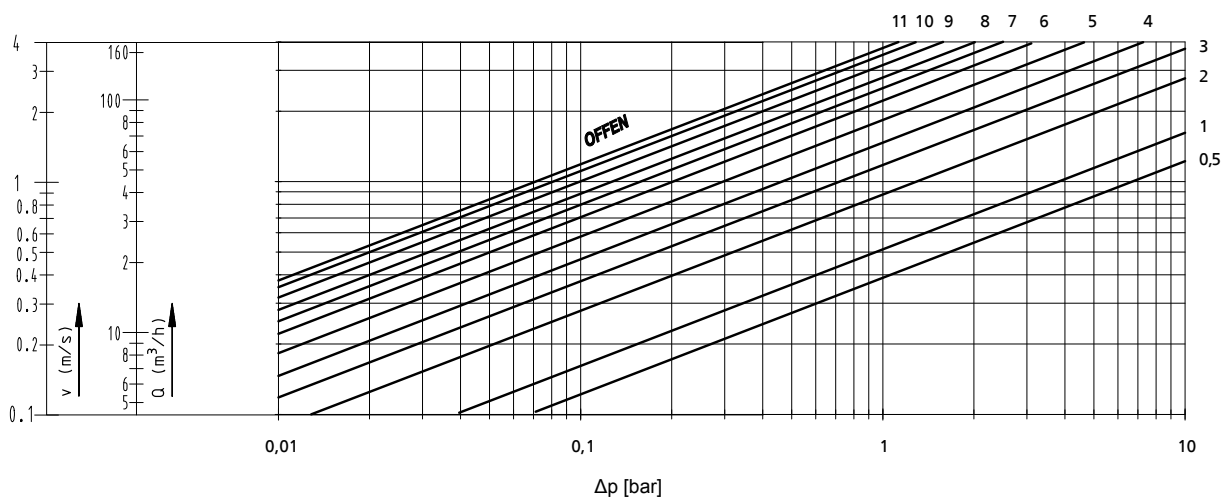
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
91,0	18,9	10,2
85,5	21,4	9
80,0	24,5	8
72,5	29,8	7
64,0	38,3	6
53,8	54,2	5
44,0	81,0	4
39,0	103,0	3,5
35,0	128,0	3
31,6	157,0	2,5
27,5	207,0	2
23,0	296,0	1,5
17,0	542,0	1
12,2	446,0	0,5



DN 125, PN 16/25

Selection table

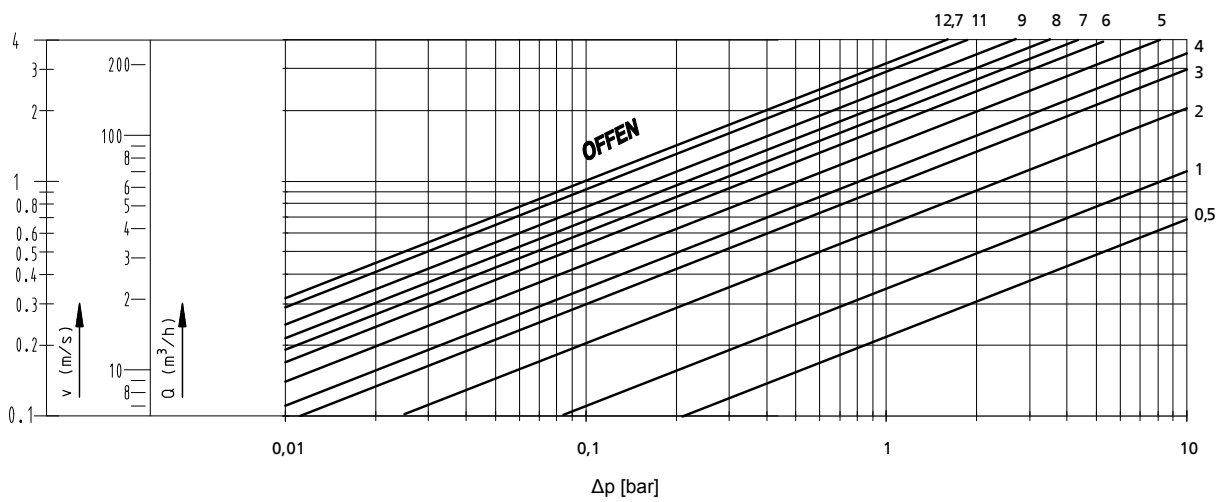
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
165,3	14,0	11,1
154,6	16,0	10
140,0	19,5	9
123,7	25,0	8
111,0	31,0	7
98,0	40,0	6
81,2	58,0	5
64,8	91,0	4
52,0	141,5	3
38,3	254,0	2
22,6	750,0	1
17,0	1324,0	0,5



DN 150, PN 16/25

Selection table

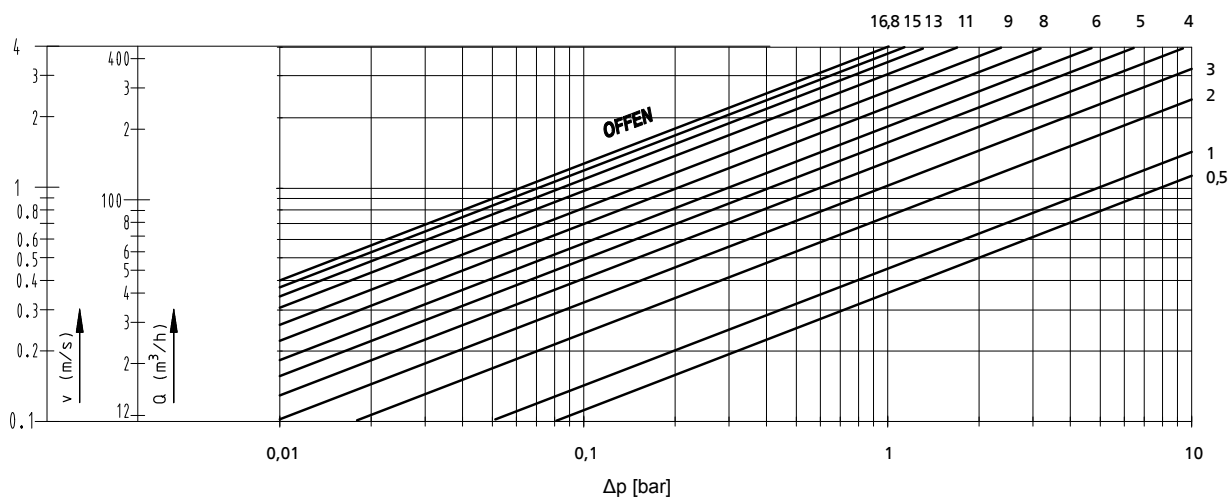
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
202,0	19,4	12,7
185,0	23,2	11
155,0	33,0	9
136,0	42,7	8
122,0	53,3	7
108,0	68,0	6
89,1	100,0	5
70,0	162,0	4
60,0	220,5	3
41,0	472,0	2
22,1	1624	1
13,8	4165	0,5



DN 200, PN 16

Selection table

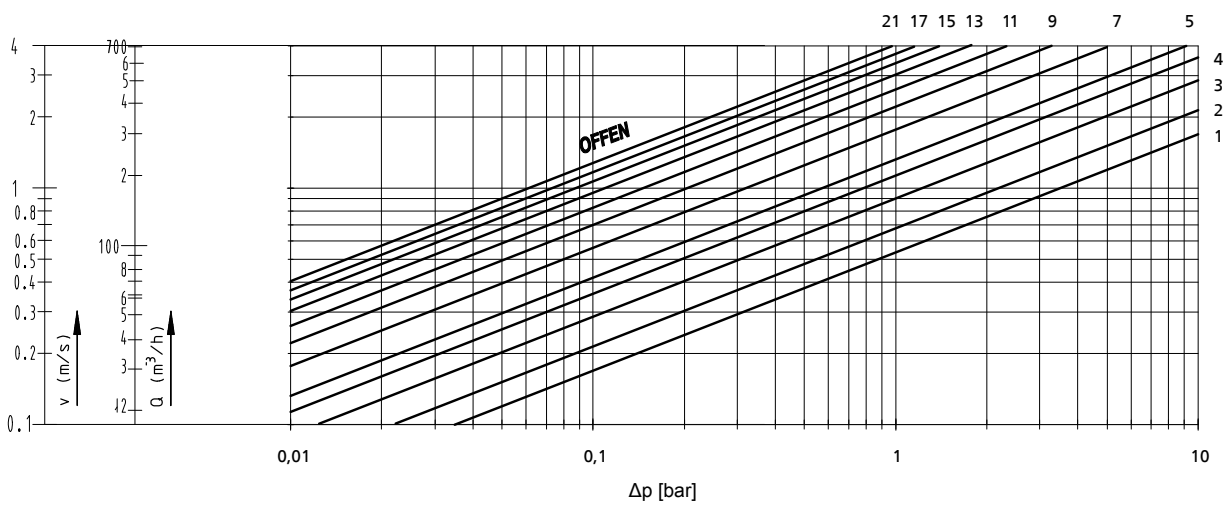
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
452,0	12,3	16,8
423,0	14	15
389,0	16,6	13
345,0	21,1	11
250,0	40	8
206,0	59	6
176,0	81	5
133,0	146	4
115,0	190	3
85,0	347	2
51,0	964	1
40,0	1567	0,5



DN 250, PN 16

Selection table

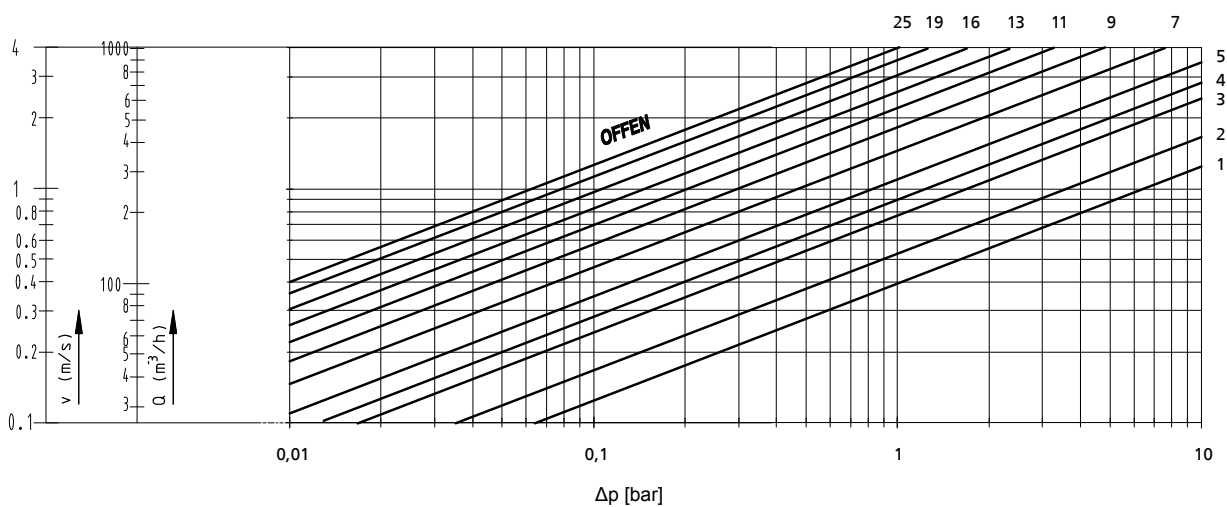
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
714	12	21
692	12,8	19
652	14,4	17
595	17,3	15
534	21,5	13
461	28,8	11
392	39,8	9
312	63	7
233	113	5
200	153	4
160	240	3
120	425	2
94	693	1



DN 300, PN 16

Selection table

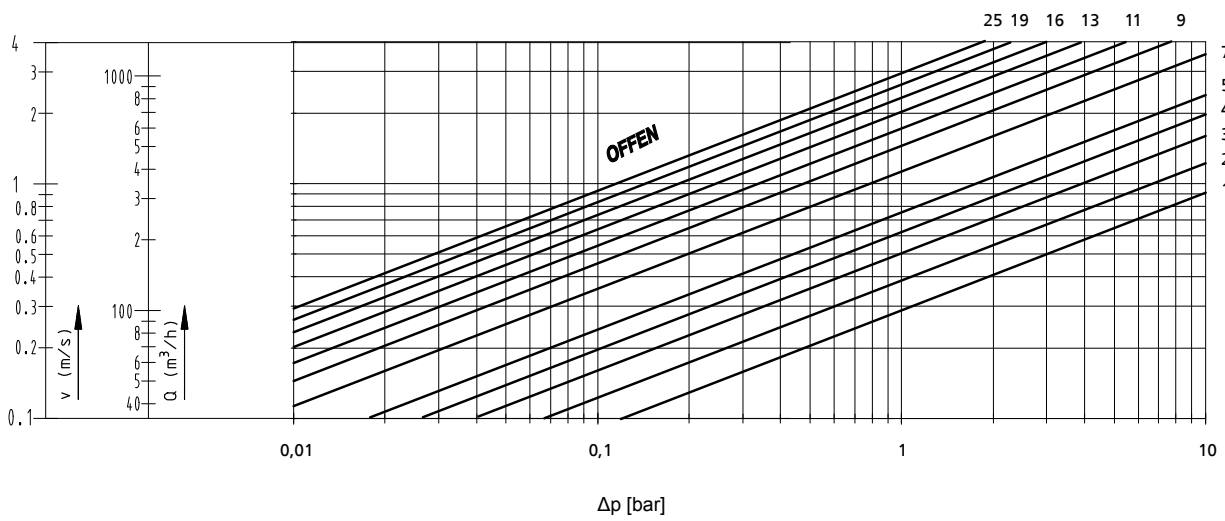
Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
1012	12,4	25
693	13,7	22
902	15,6	19
776	21,1	16
660	29,2	13
560	40,5	11
465	58,7	9
370	92,7	7
278	164,3	5
227	246,3	4
195	334	3
134	707	2
100	1270	1



DN 350, PN 16

Selection table

Kv [m ³ /h]	Resistance coefficient [ζ]	Number of stem turns n1 from CLOSED position
1020	22,6	25
963	25,4	22
914	28,1	19
805	36,3	16
699	48,7	13
593,5	66,8	11
502	93,3	9
390	155	7
261	178	5
215	509	4
175	768	3
134	1310	2
100	2350	1





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