







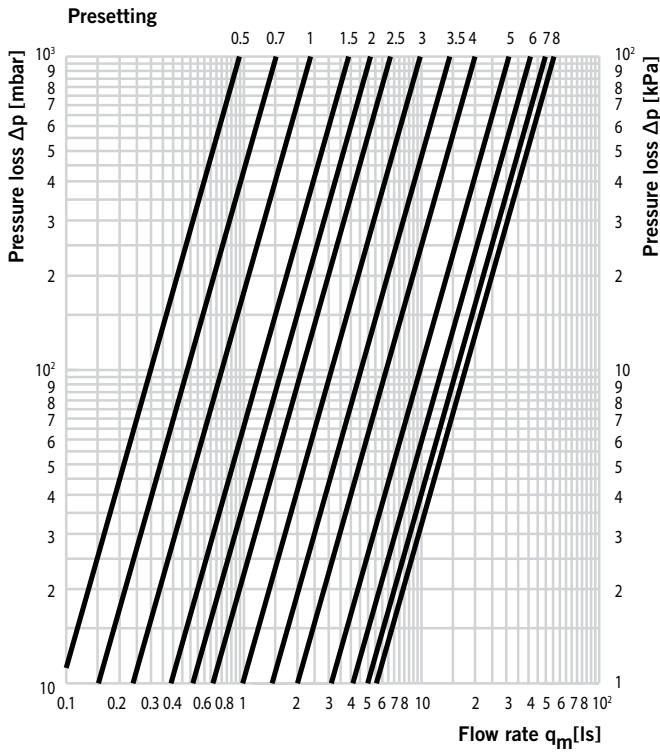




# Oventrop Double Regulating and Commissioning Valve

SERIES 7890

## FLOW CHARACTERISTICS DN100

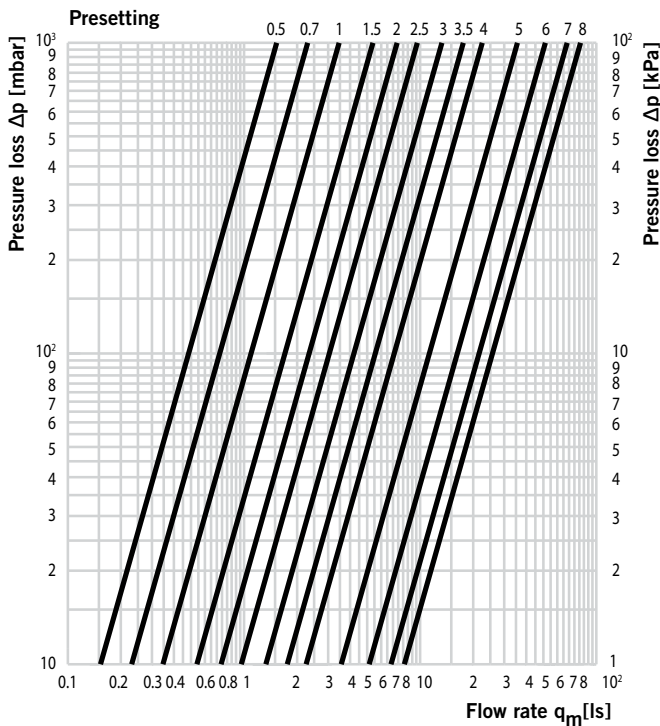


Presetting	Kv Values	Zeta Values
0.5	3.40	14279
0.7	5.46	5537
1.0	8.55	2258
1.1	9.58	1799
1.2	10.61	1466
1.3	11.64	1218
1.4	12.67	1028
1.5	14.00	842
1.6	14.73	761
1.7	15.76	665
1.8	16.79	586
1.9	17.82	520
2.0	18.50	482
2.1	19.88	418
2.2	20.91	378
2.3	21.95	343
2.4	22.97	313
2.5	24.00	287
2.6	26.00	244
2.7	28.13	209
2.8	30.40	179
2.9	32.81	153
3.0	35.40	132
3.1	38.18	113
3.2	41.17	97
3.3	44.44	84
3.4	48.02	72
3.5	52.00	61
3.6	55.93	53
3.7	59.89	46
3.8	63.89	40
3.9	67.92	36
4.0	72.00	32
4.1	76.11	29
4.2	80.27	26
4.3	84.47	23
4.4	88.71	21

Presetting	Kv Values	Zeta Values
4.5	93.00	19
4.6	97.37	17
4.7	101.62	16
4.8	105.74	15
4.9	109.75	14
5.0	112.00	13
5.1	117.46	12
5.2	121.17	11
5.3	124.79	10.6
5.4	127.52	10.2
5.5	132.00	9.5
5.6	135.16	9.0
5.7	138.47	8.6
5.8	141.74	8.2
5.9	144.89	7.9
6.0	148.00	7.5
6.1	151.54	7.1
6.2	155.63	6.8
6.3	159.10	6.5
6.4	162.38	6.3
6.5	164.03	6.1
6.6	168.44	5.8
6.7	171.26	5.6
6.8	173.95	5.5
6.9	176.53	5.3
7.0	179.01	5.2
7.1	181.37	5.0
7.2	183.65	4.9
7.3	185.85	4.8
7.4	187.96	4.7
7.5	190.04	4.6
7.6	192.37	4.5
7.7	194.66	4.4
7.8	196.85	4.3
7.9	198.96	4.2
8.0	201.00	4.1

Zeta values related to the inner pipe diameter according to DIN 2448 (DIN ISO 4200) (100.8 mm)

## DN125



Presetting	Kv Values	Zeta Values
0.5	5.50	12904
0.7	8.28	5694
1.0	12.45	2518
1.1	13.84	2038
1.2	15.23	1683
1.3	16.62	1413
1.4	18.01	1203
1.5	19.40	1037
1.6	20.94	890
1.7	22.47	773
1.8	24.01	677
1.9	25.54	598
2.0	26.60	552
2.1	28.61	477
2.2	30.15	429
2.3	31.68	389
2.4	33.22	354
2.5	34.75	323
2.6	37.18	282
2.7	39.69	248
2.8	42.29	218
2.9	44.97	193
3.0	47.75	171
3.1	50.63	152
3.2	53.62	136
3.3	56.73	121
3.4	60.00	108
3.5	63.35	97
3.6	66.62	88
3.7	70.00	80
3.8	73.53	72
3.9	77.21	65
4.0	81.05	59
4.1	85.07	54
4.2	89.30	49
4.3	93.77	44
4.4	98.50	40

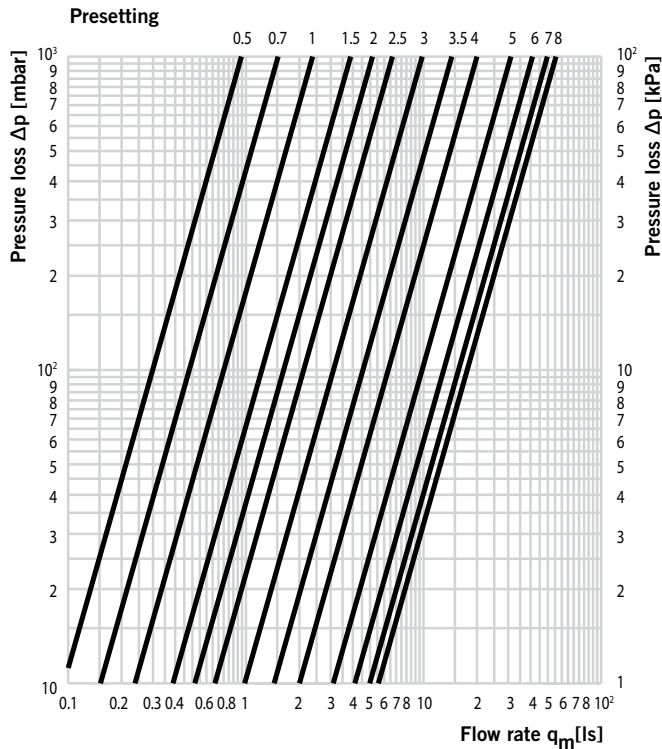
Presetting	Kv Values	Zeta Values
4.5	103.55	36
4.6	108.16	33
4.7	112.92	31
4.8	117.84	28
4.9	122.95	26
5.0	128.25	24
5.1	133.77	22
5.2	139.54	20
5.3	145.60	18
5.4	151.96	17
5.5	158.70	15
5.6	164.10	14
5.7	169.60	13.5
5.8	175.21	12.7
5.9	180.94	11.9
6.0	185.30	11.4
6.1	192.75	10.5
6.2	198.85	9.9
6.3	205.10	9.3
6.4	211.50	8.7
6.5	218.05	8.2
6.6	223.37	7.8
6.7	228.64	7.5
6.8	233.89	7.1
6.9	239.03	6.8
7.0	244.15	6.5
7.1	249.23	6.3
7.2	254.26	6.0
7.3	259.25	5.8
7.4	264.19	5.6
7.5	268.15	5.4
7.6	273.95	5.2
7.7	278.77	5.0
7.8	283.55	4.9
7.9	287.96	4.7
8.0	293.00	4.5

Zeta values related to the inner pipe diameter according to DIN 2448 (DIN ISO 4200) (125 mm)

# Oventrop Double Regulating and Commissioning Valve

SERIES 7890

## FLOW CHARACTERISTICS DN150

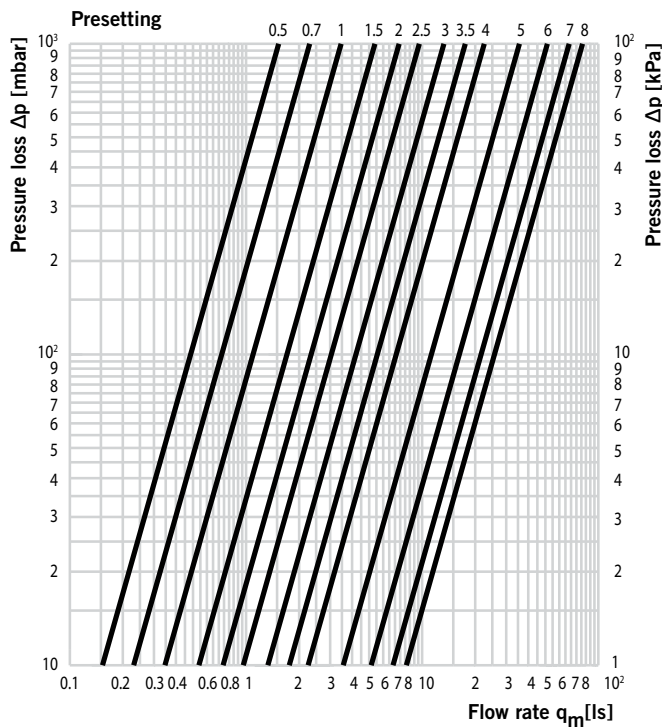


0.5	3.40	14279
0.7	5.46	5537
1.0	8.55	2258
1.1	9.58	1799
1.2	10.61	1466
1.3	11.64	1218
1.4	12.67	1028
1.5	14.00	842
1.6	14.73	761
1.7	15.76	665
1.8	16.79	586
1.9	17.82	520
2.0	18.50	482
2.1	19.88	418
2.2	20.91	378
2.3	21.95	343
2.4	22.97	313
2.5	24.00	287
2.6	26.00	244
2.7	28.13	209
2.8	30.40	179
2.9	32.81	153
3.0	35.40	132
3.1	38.18	113
3.2	41.17	97
3.3	44.44	84
3.4	48.02	72
3.5	52.00	61
3.6	55.93	53
3.7	59.89	46
3.8	63.89	40
3.9	67.92	36
4.0	72.00	32
4.1	76.11	29
4.2	80.27	26
4.3	84.47	23
4.4	88.71	21

4.5	93.00	19
4.6	97.37	17
4.7	101.62	16
4.8	105.74	15
4.9	109.75	14
5.0	112.00	13
5.1	117.46	12
5.2	121.17	11
5.3	124.79	10.6
5.4	127.52	10.2
5.5	132.00	9.5
5.6	135.16	9.0
5.7	138.47	8.6
5.8	141.74	8.2
5.9	144.89	7.9
6.0	148.00	7.5
6.1	151.54	7.1
6.2	155.63	6.8
6.3	159.10	6.5
6.4	162.38	6.3
6.5	164.03	6.1
6.6	168.44	5.8
6.7	171.26	5.6
6.8	173.95	5.5
6.9	176.53	5.3
7.0	179.01	5.2
7.1	181.37	5.0
7.2	183.65	4.9
7.3	185.85	4.8
7.4	187.96	4.7
7.5	190.04	4.6
7.6	192.37	4.5
7.7	194.66	4.4
7.8	196.85	4.3
7.9	198.96	4.2
8.0	201.00	4.1

Zeta values related to the inner pipe diameter according to DIN 2448 (DIN ISO 4200) (100.8 mm)

## DN200



Presetting	Kv Values	Zeta Values
0.5	5.50	12904
0.7	8.28	5694
1.0	12.45	2518
1.1	13.84	2038
1.2	15.23	1683
1.3	16.62	1413
1.4	18.01	1203
1.5	19.40	1037
1.6	20.94	890
1.7	22.47	773
1.8	24.01	677
1.9	25.54	598
2.0	26.60	552
2.1	28.61	477
2.2	30.15	429
2.3	31.68	389
2.4	33.22	354
2.5	34.75	323
2.6	37.18	282
2.7	39.69	248
2.8	42.29	218
2.9	44.97	193
3.0	47.75	171
3.1	50.63	152
3.2	53.62	136
3.3	56.73	121
3.4	60.00	108
3.5	63.35	97
3.6	66.62	88
3.7	70.00	80
3.8	73.53	72
3.9	77.21	65
4.0	81.05	59
4.1	85.07	54
4.2	89.30	49
4.3	93.77	44
4.4	98.50	40

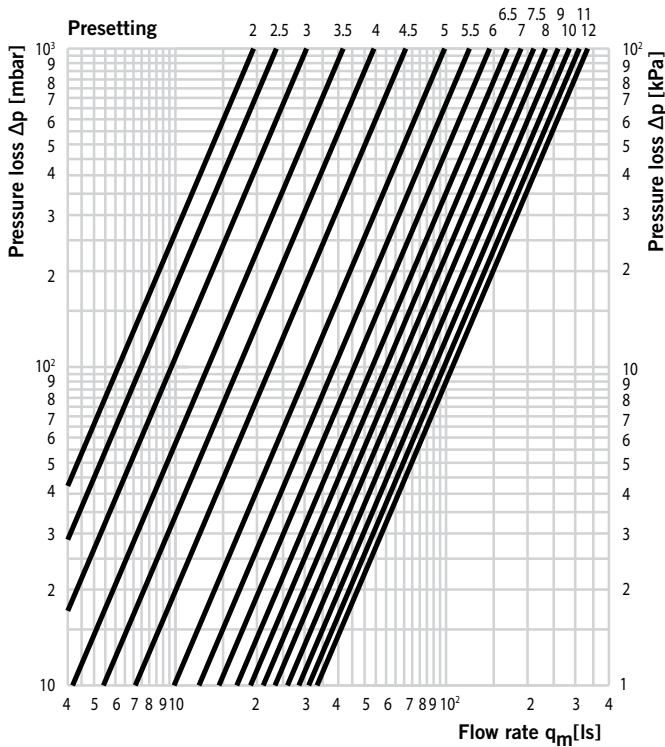
Presetting	Kv Values	Zeta Values
4.5	103.55	36
4.6	108.16	33
4.7	112.92	31
4.8	117.84	28
4.9	122.95	26
5.0	128.25	24
5.1	133.77	22
5.2	139.54	20
5.3	145.60	18
5.4	151.96	17
5.5	158.70	15
5.6	164.10	14
5.7	169.60	13.5
5.8	175.21	12.7
5.9	180.94	11.9
6.0	185.30	11.4
6.1	192.75	10.5
6.2	198.85	9.9
6.3	205.10	9.3
6.4	211.50	8.7
6.5	218.05	8.2
6.6	223.37	7.8
6.7	228.64	7.5
6.8	233.89	7.1
6.9	239.03	6.8
7.0	244.15	6.5
7.1	249.23	6.3
7.2	254.26	6.0
7.3	259.25	5.8
7.4	264.19	5.6
7.5	268.15	5.4
7.6	273.95	5.2
7.7	278.77	5.0
7.8	283.55	4.9
7.9	287.96	4.7
8.0	293.00	4.5

Zeta values related to the inner pipe diameter according to DIN 2448 (DIN ISO 4200) (125 mm)

# Oventrop Double Regulating and Commissioning Valve

SERIES 7890

## FLOW CHARACTERISTICS DN250



Presetting	kv values	Zeta values
2.0	70.0	1318
2.1	72.5	1229
2.2	75.5	1133
2.3	79.0	1035
2.4	82.0	961
2.5	85.0	894
2.6	89.5	806
2.7	94.0	731
2.8	99.0	659
2.9	104.5	592
3.0	110.0	534
3.1	117.0	472
3.2	123.5	424
3.3	130.5	379
3.4	139.0	334
3.5	150.0	287
3.6	155.0	269
3.7	164.0	240
3.8	174.0	213
3.9	184.0	191
4.0	195.0	170
4.1	208.0	149
4.2	221.0	132
4.3	236.0	116
4.4	252.0	102
4.5	270.0	89
4.6	287.0	78
4.7	304.0	70
4.8	321.0	63
4.9	338.0	57
5.0	356.0	51
5.1	373.0	46
5.2	390.0	42
5.3	407.0	39
5.4	423.0	36
5.5	440.0	33
5.6	457.0	31
5.7	473.0	29
5.8	490.0	27
5.9	506.0	25
6.0	522.0	24
6.1	539.0	22
6.2	555.0	21
6.3	571.0	20
6.4	587.0	19
6.5	607.0	18
6.6	619.0	17
6.7	635.0	16
6.8	651.0	15
6.9	666.0	15

Presetting	kv values	Zeta values
7.0	682.0	14
7.1	698.0	13
7.2	714.0	13
7.3	729.0	12
7.4	745.0	12
7.5	760.0	11
7.6	778.0	11
7.7	795.0	10
7.8	811.0	10
7.9	826.0	10
8.0	840.0	9
8.1	850.0	9
8.2	860.0	9
8.3	870.0	8
8.4	880.0	8
8.5	890.0	8
8.6	899.0	8
8.7	907.0	8
8.8	916.0	8
8.9	925.0	8
9.0	933.0	7
9.1	942.0	7
9.2	952.0	7
9.3	961.0	7
9.4	970.0	7
9.5	980.0	7
9.6	989.0	7
9.7	998.0	6
9.8	1008.0	6
9.9	1018.0	6
10.0	1028.0	6
10.1	1038.0	6
10.2	1048.0	6
10.3	1059.0	6
10.4	1071.0	6
10.5	1080.0	6
10.6	1088.0	5
10.7	1096.0	5
10.8	1104.0	5
10.9	1112.0	5
11.0	1120.0	5
11.1	1128.0	5
11.2	1136.0	5
11.3	1144.0	5
11.4	1152.0	5
11.5	1160.0	5
11.6	1168.0	5
11.7	1176.0	5
11.8	1184.0	5
11.9	1192.0	4
12.0	1200.0	4

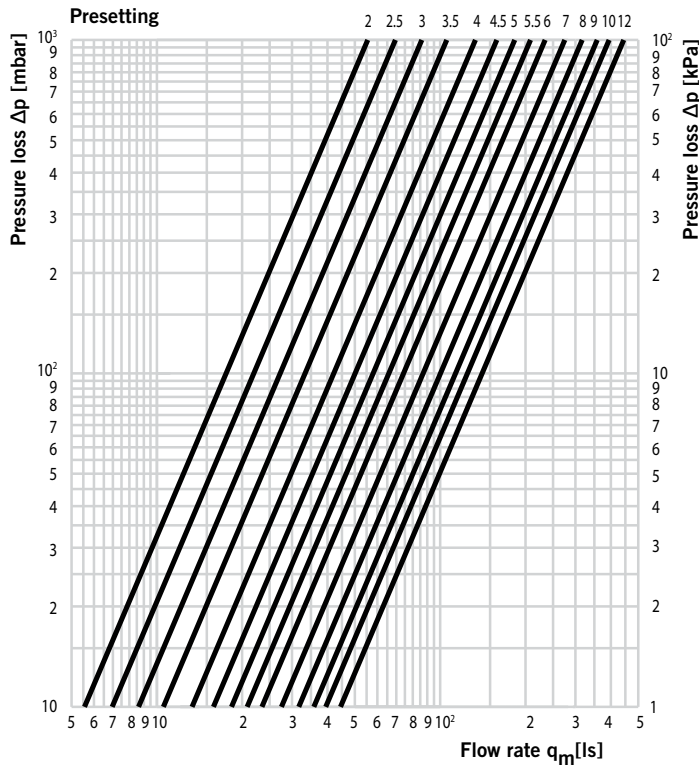
Zeta values related to the inner pipe diameter according to DIN 2448 (DIN ISO 4200) (254.4 mm)



# Oventrop Double Regulating and Commissioning Valve

SERIES 7890

## FLOW CHARACTERISTICS DN300



Presetting	kv values	Zeta values
2.0	200.0	325
2.1	210.0	295
2.2	220.0	269
2.3	230.0	246
2.4	240.0	226
2.5	250.0	208
2.6	261.0	191
2.7	273.0	174
2.8	285.0	160
2.9	297.0	147
3.0	310.0	135
3.1	323.0	125
3.2	336.0	115
3.3	350.0	106
3.4	365.0	98
3.5	380.0	90
3.6	401.0	81
3.7	421.0	73
3.8	441.0	67
3.9	461.0	61
4.0	480.0	56
4.1	499.0	52
4.2	517.0	49
4.3	535.0	45
4.4	553.0	43
4.5	570.0	40
4.6	588.0	38
4.7	606.0	35
4.8	624.0	33
4.9	642.0	32
5.0	660.0	30
5.1	678.0	28
5.2	696.0	27
5.3	714.0	26
5.4	732.0	24
5.5	750.0	23
5.6	771.0	22
5.7	791.0	21
5.8	810.0	20
5.9	828.0	19
6.0	845.0	18
6.1	861.0	18
6.2	877.0	17
6.3	892.0	16
6.4	906.0	16
6.5	920.0	15
6.6	933.0	15
6.7	947.0	14
6.8	961.0	14
6.9	975.0	14

Presetting	kv values	Zeta values
7.0	990.0	13
7.1	1005.0	13
7.2	1020.0	12
7.3	1036.0	12
7.4	1053.0	12
7.5	1070.0	11
7.6	1084.0	11
7.7	1098.0	11
7.8	1112.0	11
7.9	1126.0	10
8.0	1140.0	10
8.1	1154.0	10
8.2	1168.0	10
8.3	1182.0	9
8.4	1196.0	9
8.5	1210.0	9
8.6	1228.0	9
8.7	1245.0	8
8.8	1261.0	8
8.9	1276.0	8
9.0	1290.0	8
9.1	1303.0	8
9.2	1316.0	8
9.3	1328.0	7
9.4	1339.0	7
9.5	1350.0	7
9.6	1365.0	7
9.7	1379.0	7
9.8	1393.0	7
9.9	1407.0	7
10.0	1420.0	6
10.1	1433.0	6
10.2	1446.0	6
10.3	1457.0	6
10.4	1468.0	6
10.5	1480.0	6
10.6	1490.0	6
10.7	1500.0	6
10.8	1510.0	6
10.9	1520.0	6
11.0	1530.0	6
11.1	1539.0	5
11.2	1547.0	5
11.3	1555.0	5
11.4	1563.0	5
11.5	1570.0	5
11.6	1577.0	5
11.7	1583.0	5
11.8	1589.0	5
11.9	1595.0	5
12.0	1600.0	5

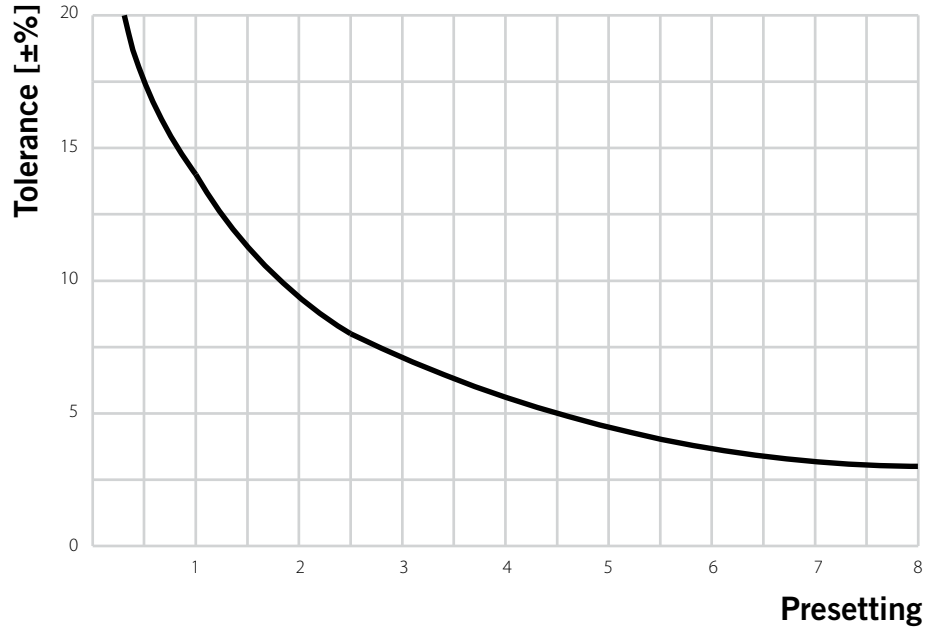
Zeta values related to the inner pipe diameter according to DIN 2448 (DIN ISO 4200) (300 mm)

# Oventrop Double Regulating and Commissioning Valve

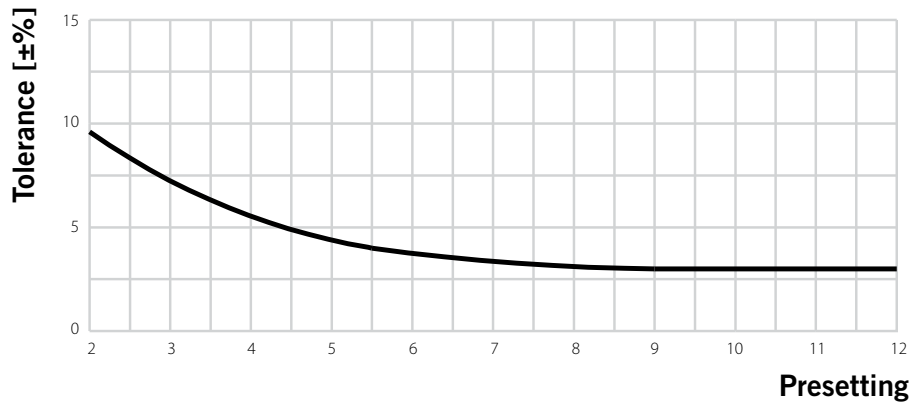
SERIES 7890

## FLOW TOLERANCE

Flow tolerances depending on the presetting for DN 65-DN 150



Flow tolerances depending on the presetting for DN 200 – DN 300

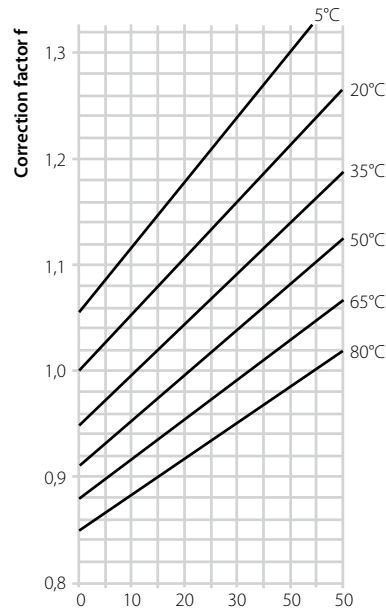


# Oventrop Double Regulating and Commissioning Valve

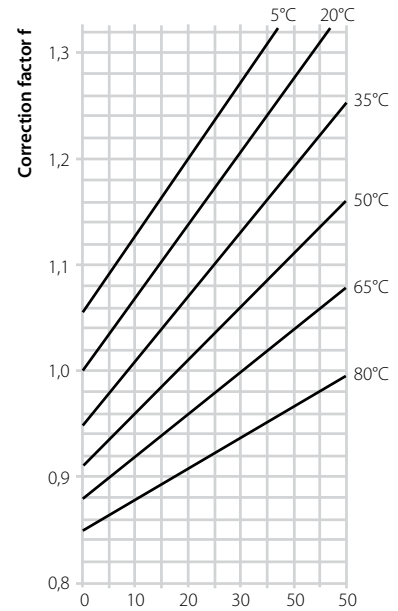
SERIES 7890

## CORRECTION FACTORS

When antifreeze liquids are added to the heating water, the pressure loss given in the chart must be multiplied by the correction factor f



Weight proportion of ethylene glycol [%]



Weight proportion of propylene glycol [%]

# Oventrop Double Regulating and Commissioning Valve

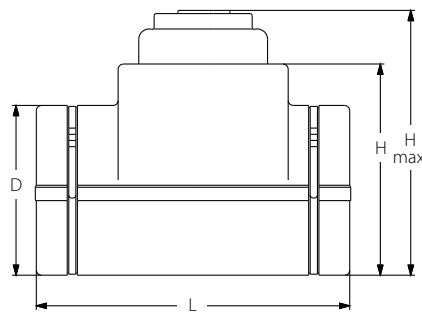
SERIES 7890

## INSULATION SHELLS

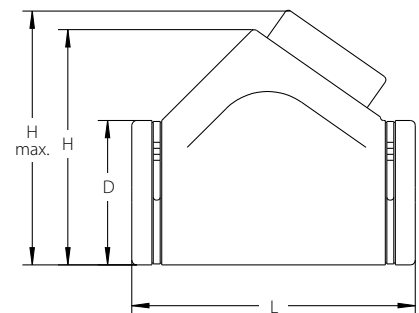
DRV DN65 – DN200

The insulation shells have a CFC-free inner core made of polyurethane foam with a 1,5mm plastic coat. It consists of two double shells which are tightened by two metal straps.

Size	Dimensions – mm			
DN	L	D	Hmax.	H
65	505	260	410	290
80	530	280	415	315
100	580	320	520	380
125	620	360	560	420
150	730	400	600	460
200	800	450	760	650



DN65 – DN150 SIZES



DN200 SIZE

## WARRANTY

Refer to the Warranty section of the current Price List or contact Victaulic for details.

## NOTE

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

For complete contact information, visit [www.victaulic.com](http://www.victaulic.com)

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