

Oventrop Double Regulating and Commissioning Valve Series 7890



1.0 PRODUCT DESCRIPTION

Available Sizes

- DN65 – DN300

Maximum Working Pressure

- 365 psi/25 bar

Operating Temperature

- –14°F to +302°F/–26°C to +150°C

Application

- Heating (not including steam) and cooling systems

Function

- Balancing
- Pre-Setting
- Measuring
- Isolating
- Filling (with accessory)
- Draining (with accessory)

End Preparation

- Victaulic Original Groove System (OGS) groove profile

2.0 CERTIFICATION/LISTINGS

Not applicable – contact Victaulic with any questions.

ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

System No.		Location	
Submitted By		Date	

Spec Section		Paragraph	
Approved		Date	

3.0 SPECIFICATIONS – MATERIAL

Body: Cast iron conforming to GG 25 EN-GJL-250 according to DIN EN 1561

Bonnet:

- DN65 – DN150: Bronze/dezincification resistant (DZR) brass
- DN200 – DN300: Nodular cast iron conforming to GGG 40 EN-GJS-400-15 according to DIN EN 1563

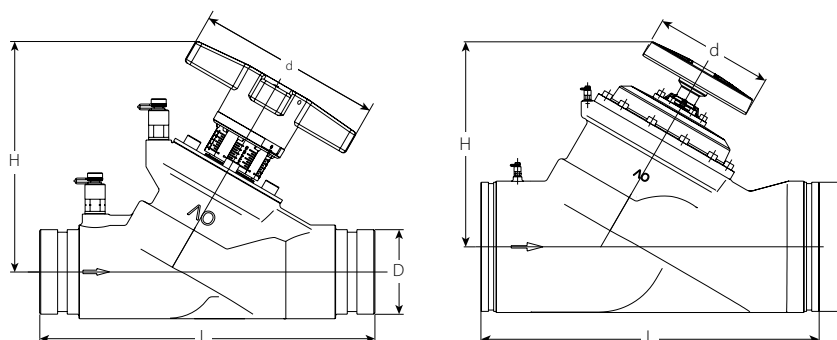
Disc: Bronze/DZR brass with PTFE seal

Stems: Bronze/DZR brass

Stem Seal: Double EPDM o-ring

4.0 DIMENSIONS

Series 7890 Overtrop Double Regulating and Commissioning Valve



Sizes DN65 – DN150

Sizes DN200 – DN300

Size		Dimensions				Approx. Weight kg
DN	OD mm	L mm	D mm	H mm	d mm	
65	73.0	290	73.0	200	160	8.9
	76.1	290	76.1	200	160	8.9
80	88.9	310	88.9	215	160	12.6
100	114.3	350	114.3	244	160	20.5
125	139.7	400	139.7	289	160	31.8
	141.3	400	141.3	289	160	31.8
	165.1	480	165.1	293	160	43.4
150	168.3	480	168.3	293	160	43.4
200	219.1	600	219.1	467	300	115.8
250	273.0	730	273.0	480	300	171.1
300	323.9	850	323.9	515	300	236.0

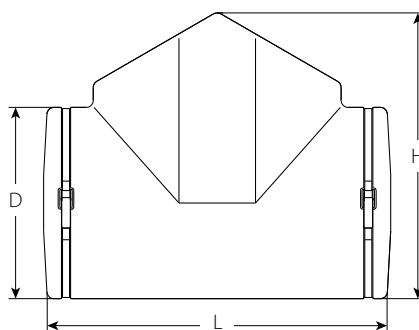
4.1 DIMENSIONS

Series 7890 Oventrop Double Regulating and Commissioning Valve

Insulation Shells

Sizes DN65 – DN150

The insulation shells have a CFC-free inner core made of polyurethane rigid foam with a 1.5 mm plastic coat. It consists of two double shells which are tightened by two straps. The shells meet the requirements of the German Energy Saving Directive (EnEV), appendix 5, table 1, line 5.



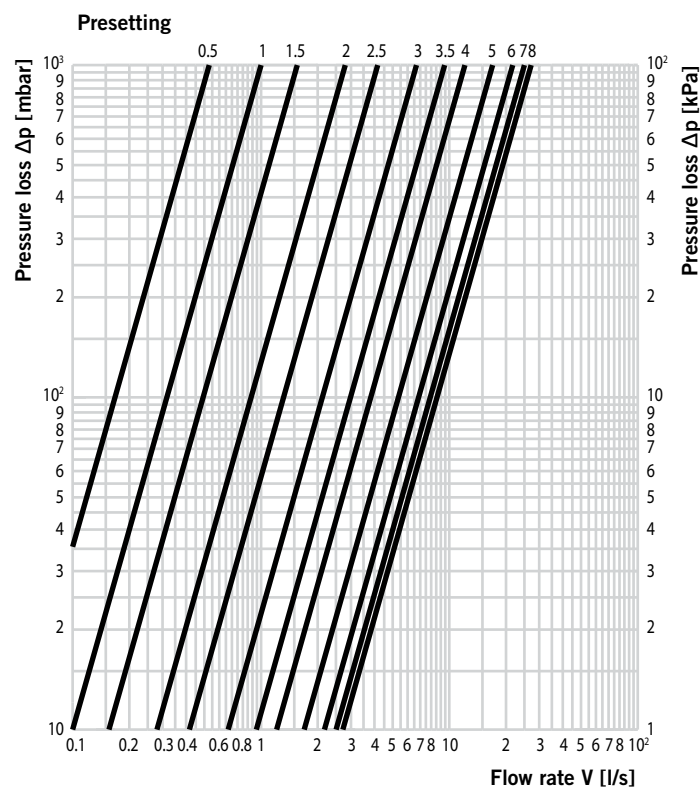
Sizes DN65 – DN150

Size	Dimensions		
DN	L	D	H
	mm	mm	mm
65	480	270	405
80	515	300	430
100	595	350	500
125	660	385	573
150	740	415	598

5.0 PERFORMANCE

Flow Characteristics

Size DN65



Presetting	k_v Values	Zeta Values
0.5	1.90	8454
1.0	3.60	2355
1.1	4.12	1798
1.2	4.49	1514
1.3	4.86	1292
1.4	5.23	1116
1.5	5.60	973
1.6	6.43	738
1.7	7.29	574
1.8	8.17	457
1.9	9.07	371
2.0	10.00	305
2.1	10.95	255
2.2	11.91	215
2.3	12.92	183
2.4	13.94	157
2.5	15.00	136
2.6	16.66	110

Presetting	k_v Values	Zeta Values
2.7	18.38	90
2.8	20.14	75
2.9	21.95	63
3.0	24.00	53
3.1	25.73	46
3.2	27.70	40
3.3	29.74	35
3.4	31.84	30
3.5	34.00	26
3.6	35.93	24
3.7	37.84	21
3.8	39.74	19
3.9	41.63	18
4.0	43.50	16
4.1	45.36	15
4.2	47.20	14
4.3	49.03	13
4.4	50.85	12

Presetting	k_v Values	Zeta Values
4.5	52.00	11
4.6	54.45	10
4.7	56.23	10
4.8	58.00	9.1
4.9	59.74	8.6
5.0	61.00	8.2
5.1	63.21	7.6
5.2	64.93	7.2
5.3	66.63	6.9
5.4	68.32	6.5
5.5	70.00	6.2
5.6	71.69	5.9
5.7	73.33	5.7
5.8	74.93	5.4
5.9	76.48	5.2
6.0	78.00	5.0
6.1	79.48	4.8
6.2	80.91	4.7

Presetting	k_v Values	Zeta Values
6.3	82.31	4.5
6.4	83.67	4.4
6.5	85.00	4.2
6.6	86.12	4.1
6.7	84.20	4.0
6.8	88.23	3.9
6.9	89.23	3.8
7.0	90.00	3.8
7.1	91.13	3.7
7.2	92.02	3.6
7.3	92.89	3.5
7.4	93.71	3.5
7.5	94.50	3.4
7.6	95.27	3.4
7.7	86.00	3.3
7.8	96.70	3.2
7.9	97.36	3.1
8.0	98.00	3.0

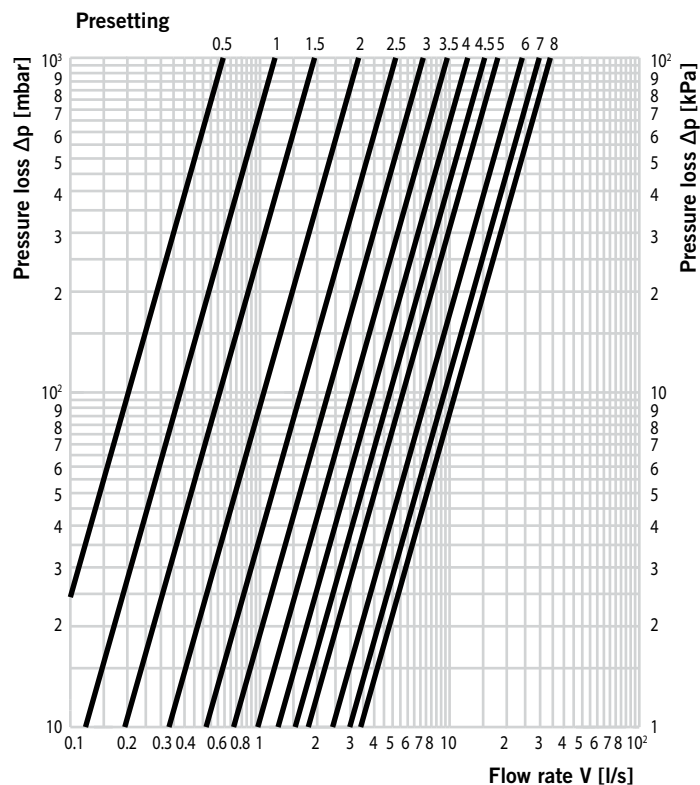
NOTE

- Zeta values related to the inner pipe diameter according to DIN EN 10220 (66.1 mm).

5.0 PERFORMANCE (Continued)

Flow Characteristics

Size DN80



Presetting	k_v Values	Zeta Values
0.5	2.30	11016
1.0	4.40	3010
1.1	4.74	2594
1.2	5.17	2180
1.3	5.67	1813
1.4	6.28	1478
1.5	7.00	1189
1.6	7.89	936
1.7	8.82	749
1.8	9.78	609
1.9	10.79	500
2.0	11.85	415
2.1	12.95	347
2.2	14.11	293
2.3	15.33	248
2.4	16.61	211
2.5	18.65	168
2.6	19.39	155

Presetting	k_v Values	Zeta Values
2.7	20.90	133
2.8	22.51	115
2.9	24.24	99
3.0	26.10	86
3.1	27.85	75
3.2	29.61	66
3.3	31.39	59
3.4	33.19	53
3.5	35.00	48
3.6	36.83	43
3.7	38.68	39
3.8	40.55	35
3.9	42.43	32
4.0	44.75	29
4.1	46.27	27
4.2	48.21	25
4.3	50.19	23
4.4	52.18	21

Presetting	k_v Values	Zeta Values
4.5	55.20	19
4.6	56.22	18
4.7	58.28	17
4.8	60.36	16
4.9	62.47	15
5.0	64.60	14
5.1	66.98	13
5.2	69.32	12
5.3	71.63	11
5.4	73.90	11
5.5	75.45	10
5.6	78.37	9.5
5.7	80.56	9.0
5.8	82.72	8.5
5.9	84.85	8.1
6.0	87.00	7.7
6.1	89.04	7.4
6.2	91.00	7.0

Presetting	k_v Values	Zeta Values
6.3	93.13	6.7
6.4	95.14	6.4
6.5	97.55	6.1
6.6	99.10	5.9
6.7	101.04	5.7
6.8	102.96	5.5
6.9	104.87	5.3
7.0	106.75	5.1
7.1	108.39	5.0
7.2	110.00	4.8
7.3	111.60	4.7
7.4	113.00	4.6
7.5	114.50	4.4
7.6	116.13	4.3
7.7	117.78	4.2
7.8	119.27	4.1
7.9	120.74	4.0
8.0	122.20	3.9

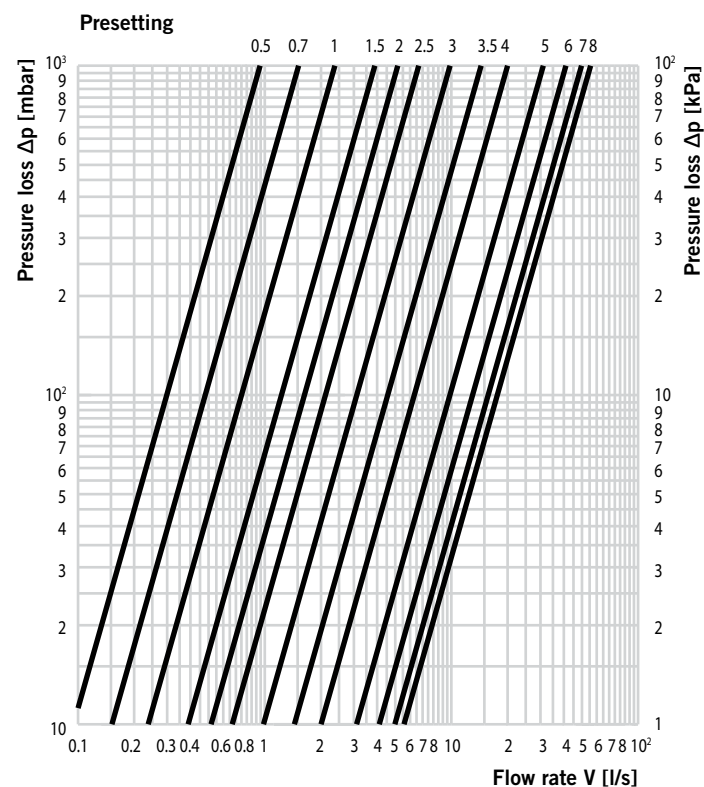
NOTE

- Zeta values related to the inner pipe diameter according to DIN EN 10220 (77.7 mm).

5.0 PERFORMANCE (Continued)

Flow Characteristics

Size DN100



Presetting	k_v Values	Zeta Values
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	21.94	343
2.4	22.97	313
2.5	24.00	287
2.6	26.00	244
2.7	28.13	209

Presetting	k_v Values	Zeta Values
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

Presetting	k_v Values	Zeta Values
4.6	97.37	17
4.7	101.62	16
4.8	105.74	15
4.9	109.75	14
5.0	112.00	13.0
5.1	117.46	12.0
5.2	121.17	11.0
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	141.71	8.2
5.9	144.89	7.9
6.0	148.00	7.5
6.1	151.94	7.1
6.2	155.63	6.8
6.3	159.10	6.5

Presetting	k_v Values	Zeta Values
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

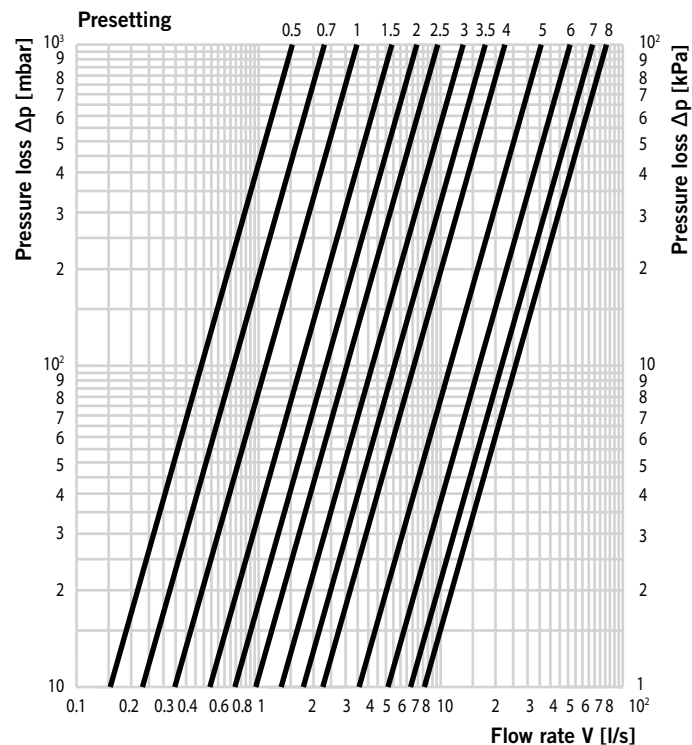
NOTE

- Zeta values related to the inner pipe diameter according to DIN EN 10220 (100.8 mm).

5.0 PERFORMANCE (Continued)

Flow Characteristics

Size DN125



Presetting	k_v Values	Zeta Values
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	31.36	389
2.4	33.22	354
2.5	34.75	323
2.6	37.18	282
2.7	39.69	248

Presetting	k_v Values	Zeta Values
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	85.05	54
4.2	89.30	49
4.3	93.77	44
4.4	98.50	40
4.5	103.55	36

Presetting	k_v Values	Zeta Values
4.6	108.16	33
4.7	112.92	31
4.8	117.84	28
4.9	122.95	26
5.0	128.25	24.0
5.1	133.77	22.0
5.2	139.54	20.0
5.3	145.60	18.0
5.4	151.96	17.0
5.5	158.70	15.0
5.6	164.10	14.0
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

Presetting	k_v Values	Zeta Values
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

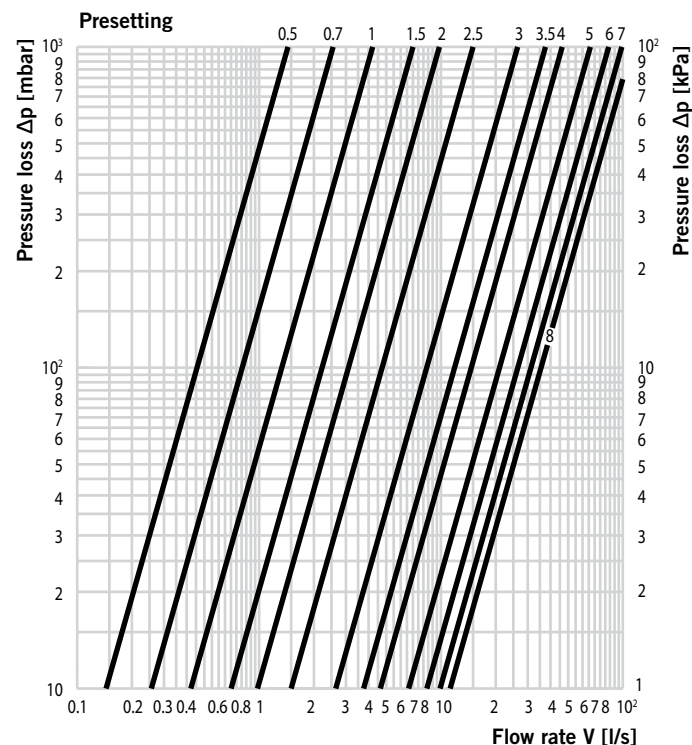
NOTE

- Zeta values related to the inner pipe diameter according to DIN EN 10220 (125 mm).

5.0 PERFORMANCE (Continued)

Flow Characteristics

Size DN150



Presetting	k_v Values	Zeta Values	Presetting	k_v Values	Zeta Values	Presetting	k_v Values	Zeta Values	Presetting	k_v Values	Zeta Values
1.0	15.22	3494	2.8	76.64	138	4.6	210.78	18	6.4	322.07	7.8
1.1	17.22	2730	2.9	85.40	111	4.7	217.79	17	6.5	326.7	7.6
1.2	19.23	2189	3.0	95.02	90	4.8	224.14	16	6.6	333.58	7.3
1.3	21.23	1796	3.1	105.51	73	4.9	231.46	15	6.7	338.34	7.1
1.4	23.24	1499	3.2	114.45	62	5.0	238.91	14.0	6.8	344.29	6.8
1.5	25.26	1269	3.3	122.36	54	5.1	244.72	13.5	6.9	349.56	6.6
1.6	27.24	1091	3.4	129.52	48	5.2	251.2	12.8	7.0	355.6	6.4
1.7	29.50	930	3.5	135.45	44	5.3	257.6	12.2	7.1	360	6.2
1.8	31.25	829	3.6	142.21	40	5.4	263.9	11.6	7.2	365.06	6.1
1.9	33.26	732	3.7	147.41	37	5.5	272.4	10.9	7.3	370.13	5.9
2.0	35.26	651	3.8	153.33	34	5.6	276.24	10.6	7.4	375.15	5.8
2.1	37.13	587	3.9	160.00	32	5.7	282.3	10.2	7.5	382	5.6
2.2	39.41	521	4.0	167.12	29	5.8	288.27	9.7	7.6	385.04	5.5
2.3	42.30	452	4.1	174.48	27	5.9	294.17	9.4	7.7	389.336	5.3
2.4	46.25	378	4.2	181.76	25	6.0	300.4	9.0	7.8	394.2	5.2
2.5	53.92	278	4.3	189.05	23	6.1	305.76	8.8	7.9	399.54	5.1
2.6	81.00	218	4.4	196.34	21	6.2	311.45	8.4	8.0	404.3	5.0
2.7	68.55	172	4.5	203.65	20	6.3	317.08	8.1			

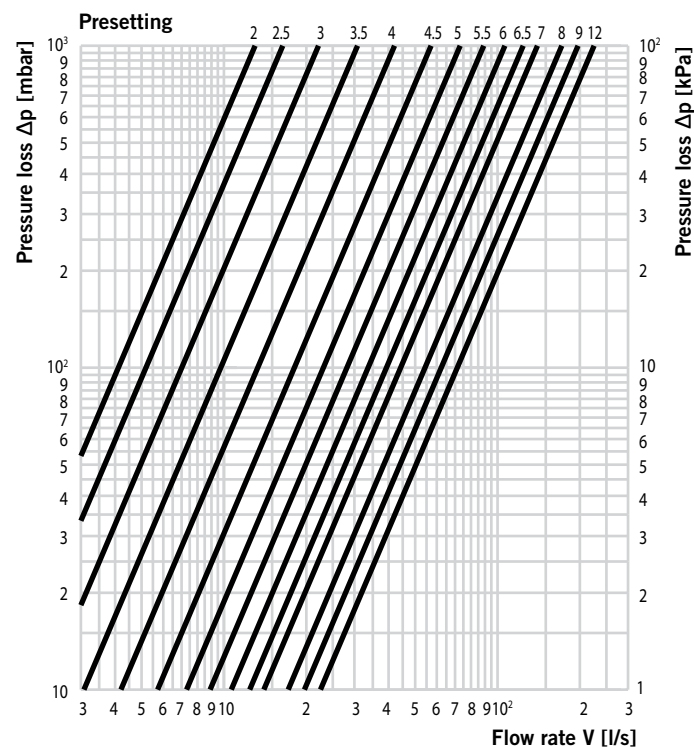
NOTE

- Zeta values related to the inner pipe diameter according to DIN EN 10220 (150 mm).

5.0 PERFORMANCE (Continued)

Flow Characteristics

Size DN200



Presetting	k_v Values	Zeta Values
2.0	48.9	1191
2.1	51.6	1070
2.2	54.2	969
2.3	56.8	883
2.4	59.4	807
2.5	62.0	741
2.6	66.4	646
2.7	70.8	568
2.8	75.2	504
2.9	79.8	449
3.0	84.0	404
3.1	90.0	352
3.2	96.0	309
3.3	102.0	274
3.4	108.0	244
3.5	114.0	219
3.6	121.0	195
3.7	128.8	172
3.8	136.2	154
3.9	143.6	138
4.0	151.0	125
4.1	162.0	109
4.2	173.0	95
4.3	184.0	84
4.4	195.0	75
4.5	206.0	67

Presetting	k_v Values	Zeta Values
4.6	216.8	61
4.7	227.6	55
4.8	238.4	50
4.9	249.2	46
5.0	260.3	41
5.1	271.9	38
5.2	283.8	35
5.3	295.6	33
5.4	307.5	30
5.5	320.0	28
5.6	332.0	26
5.7	344.8	24
5.8	357.6	22
5.9	370.3	21
6.0	383.0	19
6.1	396.0	18
6.2	409.0	17
6.3	422.0	16
6.4	435.0	15
6.5	447.8	14
6.6	460.0	13
6.7	472.6	13
6.8	484.8	12
6.9	497.2	12
7.0	509.5	11

Presetting	k_v Values	Zeta Values
7.1	519.4	11
7.2	529.3	10
7.3	539.2	10
7.4	549.1	9
7.5	559.0	9
7.6	571.0	9
7.7	582.5	8
7.8	594.2	8
7.9	606.0	8
8.0	618.0	7
8.1	626.8	7
8.2	634.8	7
8.3	634.2	7
8.4	651.6	7
8.5	660.0	7
8.6	672.8	6
8.7	685.2	6
8.8	698.7	6
8.9	711.6	6
9.0	724.5	6
9.1	731.4	5
9.2	738.2	5
9.3	744.9	5
9.4	751.7	5
9.5	758.5	5

Presetting	k_v Values	Zeta Values
9.6	760.6	5
9.7	762.7	5
9.8	764.8	5
9.9	766.9	5
10.0	769.0	5
10.1	771.2	5
10.2	773.4	5
10.3	775.6	5
10.4	778.0	5
10.5	780.0	5
10.6	782.0	5
10.7	784.0	5
10.8	786.0	5
10.9	788.0	5
11.0	790.0	5
11.1	792.2	5
11.2	794.5	5
11.3	796.8	5
11.4	799.1	4
11.5	801.4	4
11.6	804.0	4
11.7	806.6	4
11.8	809.2	4
11.9	812.0	4
12.0	814.5	4

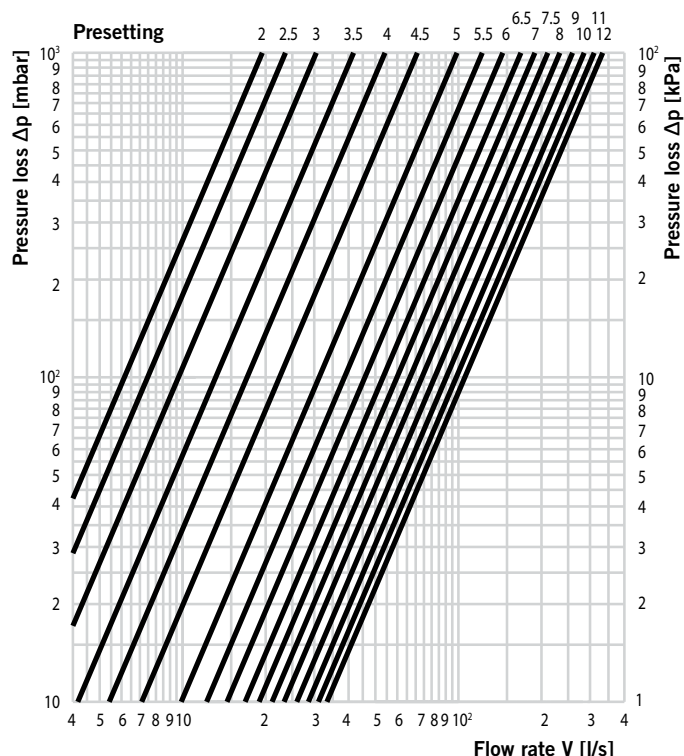
NOTE

- Zeta values related to the inner pipe diameter according to DIN EN 10220 (207.3 mm).

5.0 PERFORMANCE (Continued)

Flow Characteristics

Size DN250



Presetting	k_v 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

Presetting	k_v Values	Zeta Values
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
7.0	682.0	14

Presetting	k_v Values	Zeta Values
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

Presetting	k_v Values	Zeta Values
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

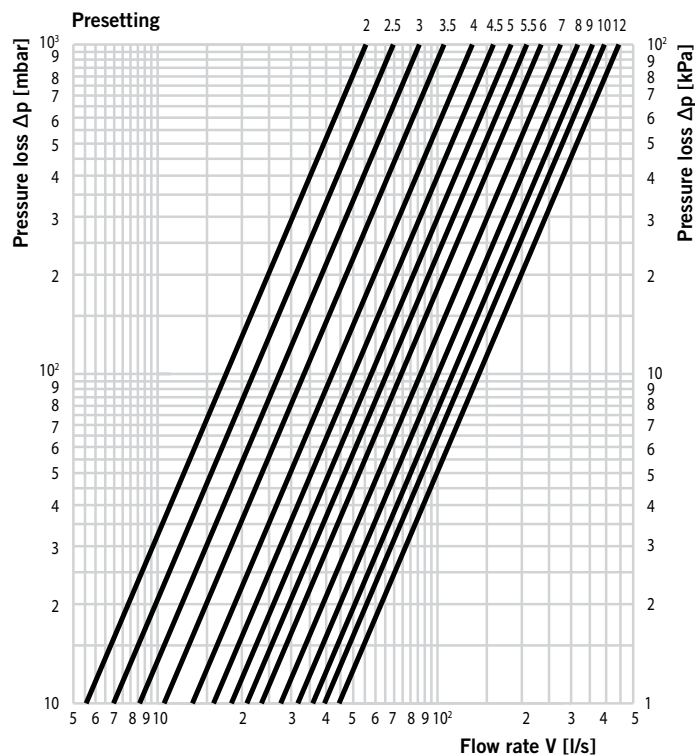
NOTE

- Zeta values related to the inner pipe diameter according to DIN EN 10220 (254.4 mm).

5.0 PERFORMANCE (Continued)

Flow Characteristics

Size DN300



Presetting	k_v Values	Zeta Values	Presetting	k_v Values	Zeta Values	Presetting	k_v Values	Zeta Values	Presetting	k_v Values	Zeta Values
2.0	200.0	325	4.6	588.0	38	7.1	1005.0	13	9.6	1365.0	7
2.1	210.0	295	4.7	606.0	35	7.2	1020.0	12	9.7	1379.0	7
2.2	220.0	269	4.8	624.0	33	7.3	1036.0	12	9.8	1393.0	7
2.3	230.0	246	4.9	642.0	32	7.4	1053.0	12	9.9	1407.0	7
2.4	240.0	226	5.0	660.0	30	7.5	1070.0	11	10.0	1420.0	6
2.5	250.0	208	5.1	678.0	28	7.6	1084.0	11	10.1	1433.0	6
2.6	261.0	191	5.2	696.0	27	7.7	1098.0	11	10.2	1446.0	6
2.7	273.0	174	5.3	714.0	26	7.8	1112.0	11	10.3	1457.0	6
2.8	285.0	160	5.4	732.0	24	7.9	1126.0	10	10.4	1468.0	6
2.9	297.0	147	5.5	750.0	23	8.0	1140.0	10	10.5	1480.0	6
3.0	310.0	135	5.6	771.0	22	8.1	1154.0	10	10.6	1490.0	6
3.1	323.0	125	5.7	791.0	21	8.2	1168.0	10	10.7	1500.0	6
3.2	336.0	115	5.8	810.0	20	8.3	1182.0	9	10.8	1510.0	6
3.3	350.0	106	5.9	828.0	19	8.4	1196.0	9	10.9	1520.0	6
3.4	365.0	98	6.0	845.0	18	8.5	1210.0	9	11.0	1530.0	6
3.5	380.0	90	6.1	861.0	18	8.6	1228.0	9	11.1	1539.0	5
3.6	401.0	81	6.2	877.0	17	8.7	1245.0	8	11.2	1547.0	5
3.7	421.0	73	6.3	892.0	16	8.8	1261.0	8	11.3	1555.0	5
3.8	441.0	67	6.4	906.0	16	8.9	1276.0	8	11.4	1563.0	5
3.9	461.0	61	6.5	920.0	15	9.0	1290.0	8	11.5	1570.0	5
4.0	480.0	56	6.6	933.0	15	9.1	1303.0	8	11.6	1577.0	5
4.1	499.0	52	6.7	947.0	14	9.2	1316.0	8	11.7	1583.0	5
4.2	517.0	49	6.8	961.0	14	9.3	1328.0	7	11.8	1589.0	5
4.3	535.0	45	6.9	975.0	14	9.4	1339.0	7	11.9	1595.0	5
4.4	553.0	43	7.0	990.0	13	9.5	1350.0	7	12.0	1600.0	5
4.5	570.0	40									

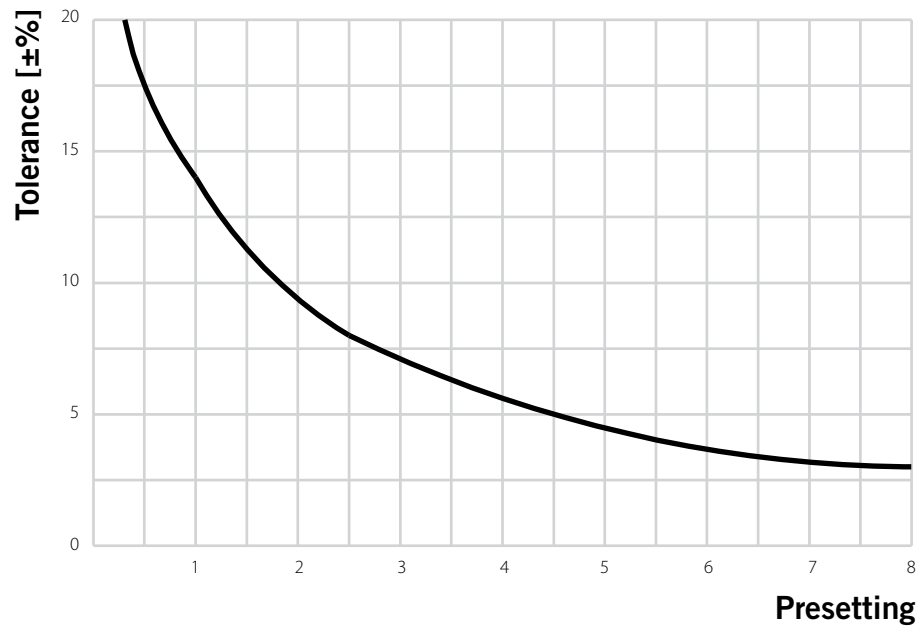
NOTE

- Zeta values related to the inner pipe diameter according to DIN EN 10220 (300 mm).

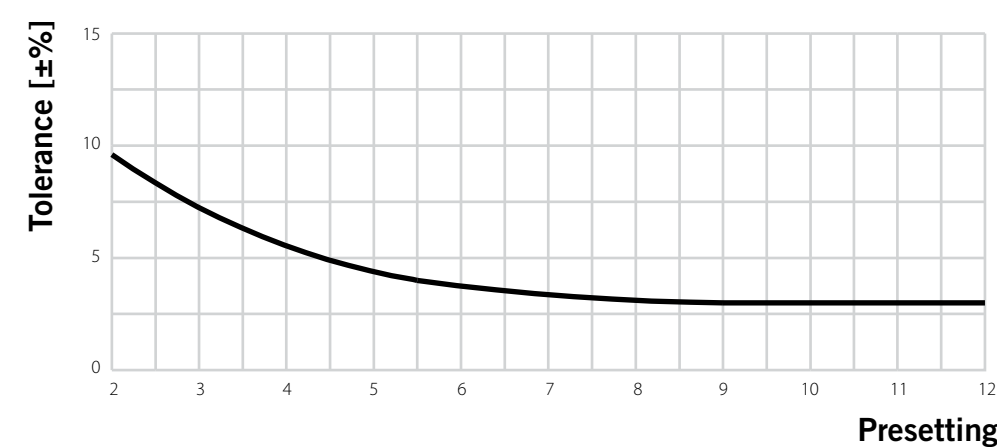
5.1 PERFORMANCE

Flow Tolerance

Flow tolerances depending on the presetting for sizes DN65 – DN150.



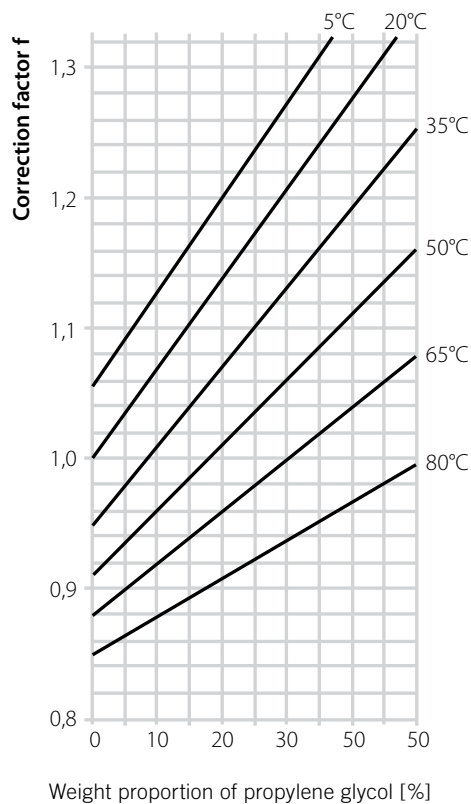
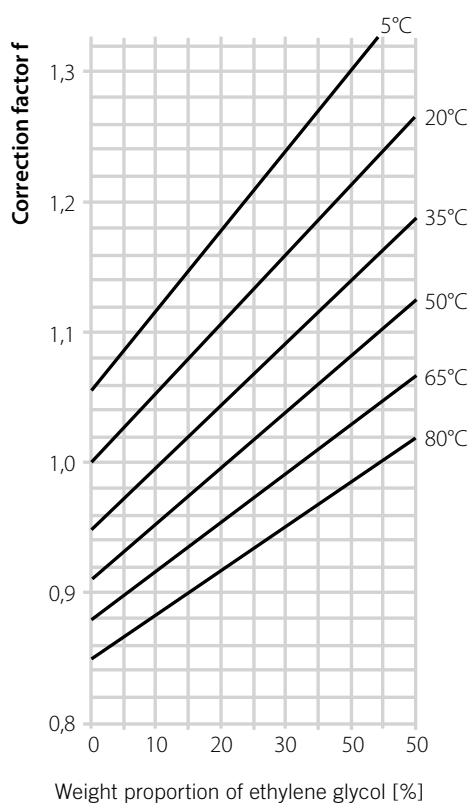
Flow tolerances depending on the presetting for sizes DN200 – DN300.



5.2 PERFORMANCE

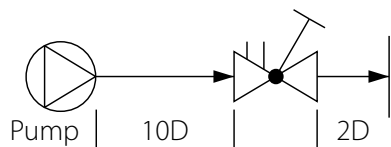
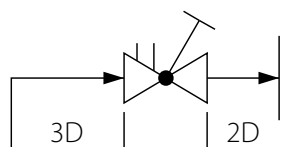
Correction Factors

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

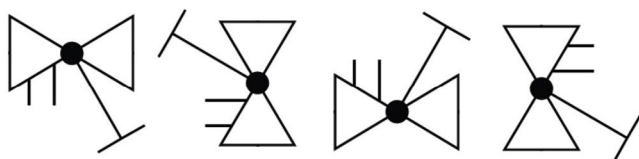


5.3 PERFORMANCE

Installation Advice



Installation Orientation



Valve may be installed in any orientation, provided the above placement criteria are met.

6.0 NOTIFICATIONS

 WARNING				
				
• Read and understand all instructions before attempting to install, remove, adjust, or maintain any Victaulic piping products. • Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain any Victaulic piping products. • Wear safety glasses, hardhat, and foot protection. • DO NOT attempt to install Victaulic couplings on pipe or fittings that show signs of damage. Failure to follow these instructions may cause joint failure, resulting in death or serious personal injury and property damage.				

7.0 REFERENCE MATERIALS

[06.23: Victaulic QuickVic™ Rigid Coupling Style 107N](#)

[06.24: Victaulic QuickVic™ Flexible Coupling Style 177N](#)

[08.71: Victaulic Series 7340 Grooved End Metering Station – Orifice Type](#)

User Responsibility for Product Selection and Suitability

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Note

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Installation

Reference should always be made to the Victaulic installation handbook or installation instructions of the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

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

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