

interval po 6minutách

PV100

Součtová čára přítoků při PV100

Součtová čára odtoků při PV100

čas (h)	Q (m3/s)	(m3)		Q (m3/s)	(m3)	retence m3
6	0.03	0		0	0	0
6.1	0.03	22		0	0	22
6.2	0.03	32		0	0	32
6.3	0.03	43		0	0	43
6.4	0.03	54		0	0	54
6.5	0.14	104		0	0	104
6.6	0.14	155		0	0	155
6.7	0.14	205		0	0	205
6.8	0.14	256		0	0	256
6.9	0.14	306		0	0	306
7	0.69	554		0	0	554
7.1	0.69	803		0	0	803
7.2	0.69	1,051		0	0	1,051
7.3	0.69	1,300		0	0	1,300
7.4	0.69	1,548		0	0	1,548
7.5	2.35	2,394		0	0	2,394
7.6	2.35	3,240		0	0	3,240
7.7	2.35	4,086		0	0	4,086
7.8	2.35	4,932		0	0	4,932
7.9	2.35	5,778		0	0	5,778
8	5.29	7,682		1.4	504	7,178
8.1	5.29	9,587		3.35	1,710	7,877
8.2	5.29	11,491		4.37	3,283	8,208
8.3	5.29	13,396		4.95	5,065	8,330
8.4	5.29	15,300		5.15	6,919	8,381
8.5	8.51	18,364		7	9,439	8,924
8.6	8.51	21,427		7.85	12,265	9,162
8.7	8.51	24,491		8.26	15,239	9,252
8.8	8.51	27,554		8.35	18,245	9,310
8.9	8.51	30,618		8.45	21,287	9,331
9	10.63	34,445		9.75	24,797	9,648
9.1	10.63	38,272		10.25	28,487	9,785
9.2	10.63	42,098		10.55	32,285	9,814
9.3	10.63	45,925		10.56	36,086	9,839
9.4	10.63	49,752		10.57	39,892	9,860
9.5	11.22	53,791		10.96	43,837	9,954
9.6	11.22	57,830		11.09	47,830	10,001
9.7	11.22	61,870		11.21	51,865	10,004
9.8	11.22	65,909		11.22	55,904	10,004
9.9	11.22	69,948		11.22	59,944	10,004
10	10.92	73,879		10.92	63,875	10,004
10.1	10.92	77,810		10.92	67,806	10,004
10.2	10.92	81,742		10.92	71,737	10,004
10.3	10.92	85,673		10.92	75,668	10,004
10.4	10.92	89,604		10.92	79,600	10,004
10.5	10.39	93,344		10.39	83,340	10,004
10.6	10.39	97,085		10.39	87,080	10,004
10.7	10.39	100,825		10.39	90,821	10,004
10.8	10.39	104,566		10.39	94,561	10,004

10.9	10.39	108,306
11	9.64	111,776
11.1	9.64	115,247
11.2	9.64	118,717
11.3	9.64	122,188
11.4	9.64	125,658
11.5	8.65	128,772
11.6	8.65	131,886
11.7	8.65	135,000
11.8	8.65	138,114
11.9	8.65	141,228
12	7.54	143,942
12.1	7.54	146,657
12.2	7.54	149,371
12.3	7.54	152,086
12.4	7.54	154,800
12.5	6.44	157,118
12.6	6.44	159,437
12.7	6.44	161,755
12.8	6.44	164,074
12.9	6.44	166,392
13	5.39	168,332
13.1	5.39	170,273
13.2	5.39	172,213
13.3	5.39	174,154
13.4	5.39	176,094
13.5	4.41	177,682
13.6	4.41	179,269
13.7	4.41	180,857
13.8	4.41	182,444
13.9	4.41	184,032
14	3.54	185,306
14.1	3.54	186,581
14.2	3.54	187,855
14.3	3.54	189,130
14.4	3.54	190,404
14.5	2.82	191,419
14.6	2.82	192,434
14.7	2.82	193,450
14.8	2.82	194,465
14.9	2.82	195,480
15	2.26	196,294
15.1	2.26	197,107
15.2	2.26	197,921
15.3	2.26	198,734
15.4	2.26	199,548
15.5	1.8	200,196
15.6	1.8	200,844
15.7	1.8	201,492
15.8	1.8	202,140
15.9	1.8	202,788

10.39	98,302	10,004
9.64	101,772	10,004
9.64	105,242	10,004
9.64	108,713	10,004
9.64	112,183	10,004
9.64	115,654	10,004
8.65	118,768	10,004
8.65	121,882	10,004
8.65	124,996	10,004
8.65	128,110	10,004
8.65	131,224	10,004
7.54	133,938	10,004
7.54	136,652	10,004
7.54	139,367	10,004
7.54	142,081	10,004
7.54	144,796	10,004
6.44	147,114	10,004
6.44	149,432	10,004
6.44	151,751	10,004
6.44	154,069	10,004
6.44	156,388	10,004
5.39	158,328	10,004
5.39	160,268	10,004
5.39	162,209	10,004
5.39	164,149	10,004
5.39	166,090	10,004
4.41	167,677	10,004
4.41	169,265	10,004
4.41	170,852	10,004
4.41	172,440	10,004
4.41	174,028	10,004
3.54	175,302	10,004
3.54	176,576	10,004
3.54	177,851	10,004
3.54	179,125	10,004
3.54	180,400	10,004
2.82	181,415	10,004
2.82	182,430	10,004
2.82	183,445	10,004
2.82	184,460	10,004
2.82	185,476	10,004
2.26	186,289	10,004
2.26	187,103	10,004
2.26	187,916	10,004
2.26	188,730	10,004
2.26	189,544	10,004
1.8	190,192	10,004
1.8	190,840	10,004
1.8	191,488	10,004
1.8	192,136	10,004
1.8	192,784	10,004

16	1.4	203,292
16.1	1.4	203,796
16.2	1.4	204,300
16.3	1.4	204,804
16.4	1.4	205,308
16.5	1.03	205,679
16.6	1.03	206,050
16.7	1.03	206,420
16.8	1.03	206,791
16.9	1.03	207,162
17	0.71	207,418
17.1	0.71	207,673
17.2	0.71	207,929
17.3	0.71	208,184
17.4	0.71	208,440
17.5	0.47	208,609
17.6	0.47	208,778
17.7	0.47	208,948
17.8	0.47	209,117
17.9	0.47	209,286
18	0.32	209,401
18.1	0.32	209,516
18.2	0.32	209,632
18.3	0.32	209,747
18.4	0.32	209,862
18.5	0.21	209,938
18.6	0.21	210,013
18.7	0.21	210,089
18.8	0.21	210,164
18.9	0.21	210,240
19	0.14	210,290
19.1	0.14	210,341
19.2	0.14	210,391
19.3	0.14	210,442
19.4	0.14	210,492
19.5	0.09	210,524
19.6	0.09	210,557
19.7	0.09	210,589
19.8	0.09	210,622
19.9	0.09	210,654
20	0.06	210,676
20.1	0.06	210,697
20.2	0.06	210,719
20.3	0.06	210,740
20.4	0.06	210,762
20.5	0.04	210,776
20.6	0.04	210,791
20.7	0.04	210,805
20.8	0.04	210,820
20.9	0.04	210,834

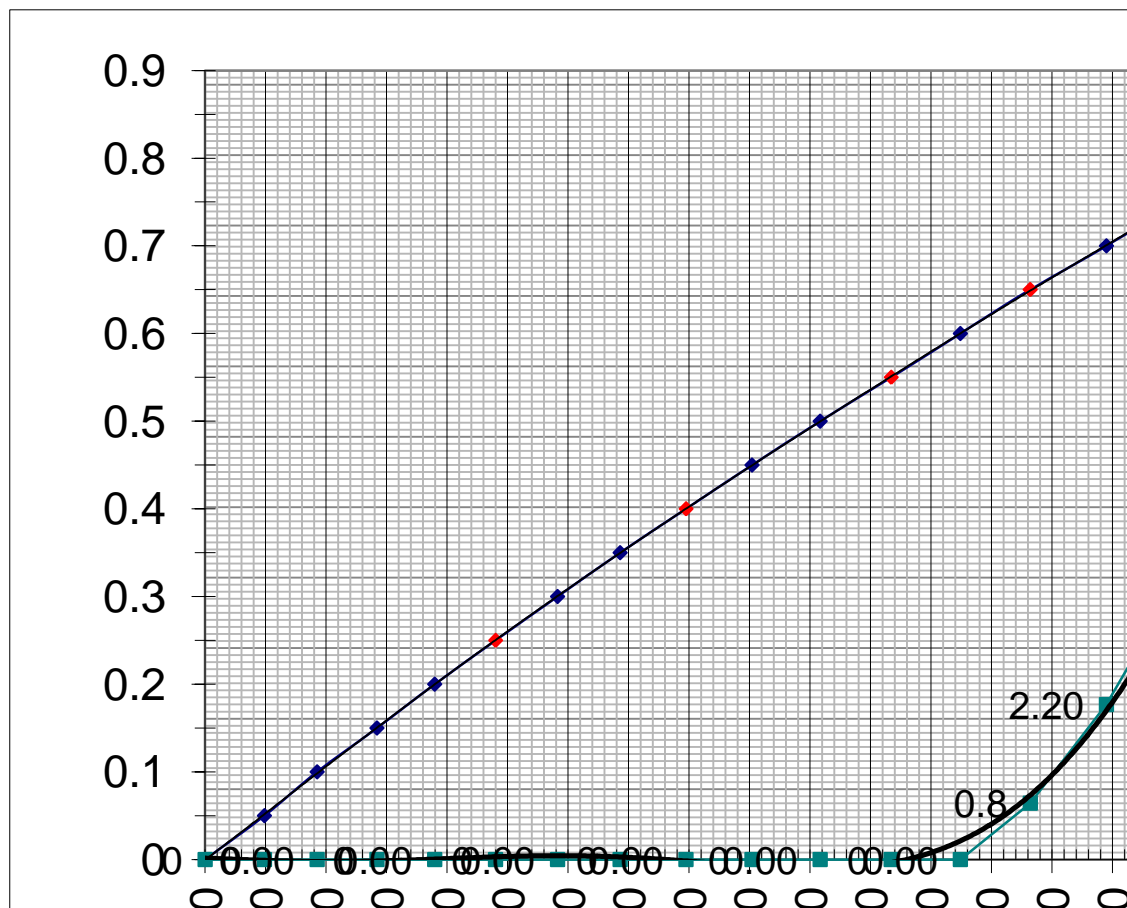
1.4	193,288	10,004
1.4	193,792	10,004
1.4	194,296	10,004
1.4	194,800	10,004
1.4	195,304	10,004
1.03	195,674	10,004
1.03	196,045	10,004
1.03	196,416	10,004
1.03	196,787	10,004
1.03	197,158	10,004
0.71	197,413	10,004
0.71	197,669	10,004
0.71	197,924	10,004
0.71	198,180	10,004
0.71	198,436	10,004
0.47	198,605	10,004
0.47	198,774	10,004
0.47	198,943	10,004
0.47	199,112	10,004
0.47	199,282	10,004
0.32	199,397	10,004
0.32	199,512	10,004
0.32	199,627	10,004
0.32	199,742	10,004
0.32	199,858	10,004
0.21	199,933	10,004
0.21	200,009	10,004
0.21	200,084	10,004
0.21	200,160	10,004
0.21	200,236	10,004
0.14	200,286	10,004
0.14	200,336	10,004
0.14	200,387	10,004
0.14	200,437	10,004
0.14	200,488	10,004
0.09	200,520	10,004
0.09	200,552	10,004
0.09	200,585	10,004
0.09	200,617	10,004
0.09	200,650	10,004
0.06	200,671	10,004
0.06	200,693	10,004
0.06	200,714	10,004
0.06	200,736	10,004
0.06	200,758	10,004
0.04	200,772	10,004
0.04	200,786	10,004
0.04	200,801	10,004
0.04	200,815	10,004
0.04	200,830	10,004

Objem v retenčním prostoru a v prostoru neovladatelném retenčním.

0.05 882.70

h proužky	V (m ³)	suma V (m3)	V tis m3	Q (m3/s)
0	0.00	0.00		0
0.05		490.00	0.490	0
0.1	925.58	925.58	0.926	0.00
0.15		1420	1.420	0
0.2	971.64	1897.22	1.897	0.00
0.25		2400	2.400	0
0.3	1015.41	2912.63	2.913	0.00
0.35		3430	3.430	0
0.4	1061.29	3973.92	3.974	0.00
0.45		4520	4.520	0
0.5	1109.25	5083.17	5.083	0.00
0.55		5670	5.670	0
0.6	1158.76	6241.93	6.242	0.00
0.65		6820	6.820	0.8
0.7	1207.17	7449.10	7.449	2.20
0.75		8060	8.060	4
0.8	1253.67	8702.77	8.703	6.20
0.85		9350	9.350	8.6
0.9	1300.75	10003.52	10.004	11.30
1.12				

H norm



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350(
400(
450(
500(
550(
600(
650(
700(
750(
(

Návrh bezpečnostního přelivu se zaoblenou přeliv

$Q = 11.2 \text{ m}^3/\text{s}$ hodnota odpovídá Q_{100}

$h = 0.3 \text{ m}$ výška přelivného paprsku navr:

$g = 9.81 \text{ m/s}^2$

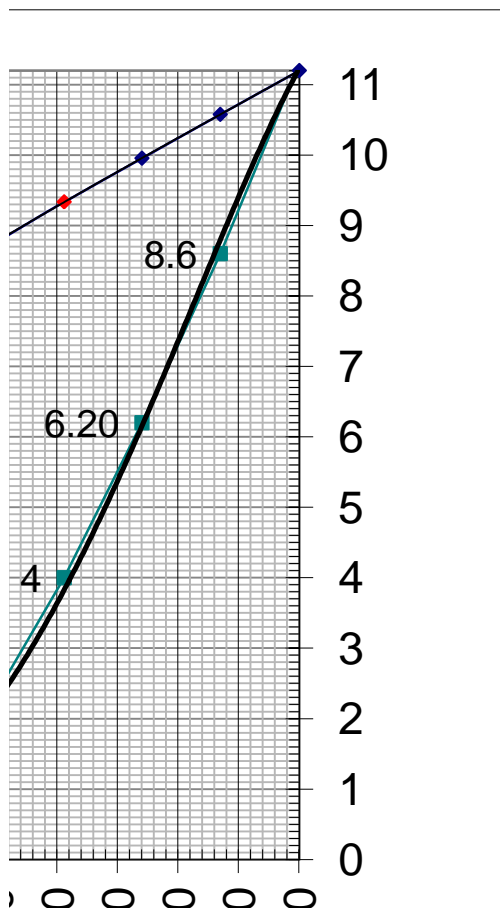
$\mu_p = 0.555$ součinitel pro zaoblenou přeliv

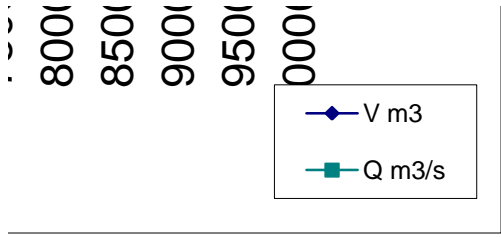
$b = 27.7 \text{ m} \Rightarrow$ návrh délky přelivné hrany

Návrh délky přelivné hrany 28.00 m

Konzumční křivka bezpečnostního přelivu

$h[\text{m}]$	$Q[\text{m}^3/\text{s}]$
0.00	0.0
0.05	0.8
0.10	2.2
0.15	4.0
0.20	6.2
0.25	8.6
0.30	11.3





vnou hranou

žená

nou hranu z tabulek

interval po 6minutách

PV100

Součtová čára přítoků při PV100

Součtová čára odtoků při PV100

čas (h)	Q (m3/s)	(m3)		Q (m3/s)	(m3)	retence m3
6	0.03	0		0	0	0
6.1	0.03	22		0	0	22
6.2	0.03	32		0	0	32
6.3	0.03	43		0	0	43
6.4	0.03	54		0	0	54
6.5	0.14	104		0	0	104
6.6	0.14	155		0	0	155
6.7	0.14	205		0	0	205
6.8	0.14	256		0	0	256
6.9	0.14	306		0	0	306
7	0.69	554		0	0	554
7.1	0.69	803		0	0	803
7.2	0.69	1,051		0	0	1,051
7.3	0.69	1,300		0	0	1,300
7.4	0.69	1,548		0.3	108	1,440
7.5	2.35	2,394		0.6	324	2,070
7.6	2.35	3,240		1.05	702	2,538
7.7	2.35	4,086		1.4	1,206	2,880
7.8	2.35	4,932		1.65	1,800	3,132
7.9	2.35	5,778		1.82	2,455	3,323
8	5.29	7,682		2.85	3,481	4,201
8.1	5.29	9,587		3.65	4,795	4,792
8.2	5.29	11,491		4.15	6,289	5,202
8.3	5.29	13,396		4.55	7,927	5,468
8.4	5.29	15,300		4.75	9,637	5,663
8.5	8.51	18,364		6.07	11,822	6,541
8.6	8.51	21,427		6.9	14,306	7,121
8.7	8.51	24,491		7.45	16,988	7,502
8.8	8.51	27,554		7.85	19,814	7,740
8.9	8.51	30,618		8.1	22,730	7,888
9	10.63	34,445		8.95	25,952	8,492
9.1	10.63	38,272		9.57	29,398	8,874
9.2	10.63	42,098		9.95	32,980	9,119
9.3	10.63	45,925		10.25	36,670	9,256
9.4	10.63	49,752		10.36	40,399	9,353
9.5	11.22	53,791		10.65	44,233	9,558
9.6	11.22	57,830		10.87	48,146	9,684
9.7	11.22	61,870		10.9	52,070	9,799
9.8	11.22	65,909		10.9	55,994	9,914
9.9	11.22	69,948		10.9	59,918	10,030
10	10.92	73,879		10.92	63,850	10,030
10.1	10.92	77,810		10.92	67,781	10,030
10.2	10.92	81,742		10.92	71,712	10,030
10.3	10.92	85,673		10.92	75,643	10,030
10.4	10.92	89,604		10.92	79,574	10,030
10.5	10.39	93,344		10.39	83,315	10,030
10.6	10.39	97,085		10.39	87,055	10,030
10.7	10.39	100,825		10.39	90,796	10,030
10.8	10.39	104,566		10.39	94,536	10,030

10.9	10.39	108,306
11	9.64	111,776
11.1	9.64	115,247
11.2	9.64	118,717
11.3	9.64	122,188
11.4	9.64	125,658
11.5	8.65	128,772
11.6	8.65	131,886
11.7	8.65	135,000
11.8	8.65	138,114
11.9	8.65	141,228
12	7.54	143,942
12.1	7.54	146,657
12.2	7.54	149,371
12.3	7.54	152,086
12.4	7.54	154,800
12.5	6.44	157,118
12.6	6.44	159,437
12.7	6.44	161,755
12.8	6.44	164,074
12.9	6.44	166,392
13	5.39	168,332
13.1	5.39	170,273
13.2	5.39	172,213
13.3	5.39	174,154
13.4	5.39	176,094
13.5	4.41	177,682
13.6	4.41	179,269
13.7	4.41	180,857
13.8	4.41	182,444
13.9	4.41	184,032
14	3.54	185,306
14.1	3.54	186,581
14.2	3.54	187,855
14.3	3.54	189,130
14.4	3.54	190,404
14.5	2.82	191,419
14.6	2.82	192,434
14.7	2.82	193,450
14.8	2.82	194,465
14.9	2.82	195,480
15	2.26	196,294
15.1	2.26	197,107
15.2	2.26	197,921
15.3	2.26	198,734
15.4	2.26	199,548
15.5	1.8	200,196
15.6	1.8	200,844
15.7	1.8	201,492
15.8	1.8	202,140
15.9	1.8	202,788

10.39	98,276	10,030
9.64	101,747	10,030
9.64	105,217	10,030
9.64	108,688	10,030
9.64	112,158	10,030
9.64	115,628	10,030
8.65	118,742	10,030
8.65	121,856	10,030
8.65	124,970	10,030
8.65	128,084	10,030
8.65	131,198	10,030
7.54	133,913	10,030
7.54	136,627	10,030
7.54	139,342	10,030
7.54	142,056	10,030
7.54	144,770	10,030
6.44	147,089	10,030
6.44	149,407	10,030
6.44	151,726	10,030
6.44	154,044	10,030
6.44	156,362	10,030
5.39	158,303	10,030
5.39	160,243	10,030
5.39	162,184	10,030
5.39	164,124	10,030
5.39	166,064	10,030
4.41	167,652	10,030
4.41	169,240	10,030
4.41	170,827	10,030
4.41	172,415	10,030
4.41	174,002	10,030
3.54	175,277	10,030
3.54	176,551	10,030
3.54	177,826	10,030
3.54	179,100	10,030
3.54	180,374	10,030
2.82	181,390	10,030
2.82	182,405	10,030
2.82	183,420	10,030
2.82	184,435	10,030
2.82	185,450	10,030
2.26	186,264	10,030
2.26	187,078	10,030
2.26	187,891	10,030
2.26	188,705	10,030
2.26	189,518	10,030
1.8	190,166	10,030
1.8	190,814	10,030
1.8	191,462	10,030
1.8	192,110	10,030
1.8	192,758	10,030

16	1.4	203,292
16.1	1.4	203,796
16.2	1.4	204,300
16.3	1.4	204,804
16.4	1.4	205,308
16.5	1.03	205,679
16.6	1.03	206,050
16.7	1.03	206,420
16.8	1.03	206,791
16.9	1.03	207,162
17	0.71	207,418
17.1	0.71	207,673
17.2	0.71	207,929
17.3	0.71	208,184
17.4	0.71	208,440
17.5	0.47	208,609
17.6	0.47	208,778
17.7	0.47	208,948
17.8	0.47	209,117
17.9	0.47	209,286
18	0.32	209,401
18.1	0.32	209,516
18.2	0.32	209,632
18.3	0.32	209,747
18.4	0.32	209,862
18.5	0.21	209,938
18.6	0.21	210,013
18.7	0.21	210,089
18.8	0.21	210,164
18.9	0.21	210,240
19	0.14	210,290
19.1	0.14	210,341
19.2	0.14	210,391
19.3	0.14	210,442
19.4	0.14	210,492
19.5	0.09	210,524
19.6	0.09	210,557
19.7	0.09	210,589
19.8	0.09	210,622
19.9	0.09	210,654
20	0.06	210,676
20.1	0.06	210,697
20.2	0.06	210,719
20.3	0.06	210,740
20.4	0.06	210,762
20.5	0.04	210,776
20.6	0.04	210,791
20.7	0.04	210,805
20.8	0.04	210,820
20.9	0.04	210,834

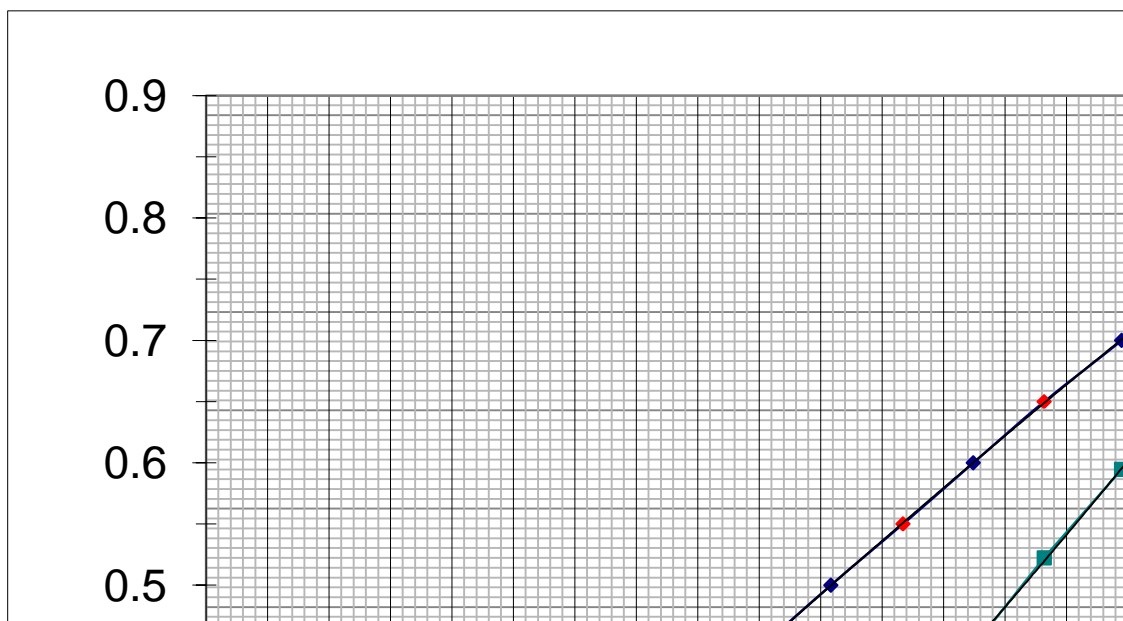
1.4	193,262	10,030
1.4	193,766	10,030
1.4	194,270	10,030
1.4	194,774	10,030
1.4	195,278	10,030
1.03	195,649	10,030
1.03	196,020	10,030
1.03	196,391	10,030
1.03	196,762	10,030
1.03	197,132	10,030
0.71	197,388	10,030
0.71	197,644	10,030
0.71	197,899	10,030
0.71	198,155	10,030
0.71	198,410	10,030
0.47	198,580	10,030
0.47	198,749	10,030
0.47	198,918	10,030
0.47	199,087	10,030
0.47	199,256	10,030
0.32	199,372	10,030
0.32	199,487	10,030
0.32	199,602	10,030
0.32	199,717	10,030
0.32	199,832	10,030
0.21	199,908	10,030
0.21	199,984	10,030
0.21	200,059	10,030
0.21	200,135	10,030
0.21	200,210	10,030
0.14	200,261	10,030
0.14	200,311	10,030
0.14	200,362	10,030
0.14	200,412	10,030
0.14	200,462	10,030
0.09	200,495	10,030
0.09	200,527	10,030
0.09	200,560	10,030
0.09	200,592	10,030
0.09	200,624	10,030
0.06	200,646	10,030
0.06	200,668	10,030
0.06	200,689	10,030
0.06	200,711	10,030
0.06	200,732	10,030
0.04	200,747	10,030
0.04	200,761	10,030
0.04	200,776	10,030
0.04	200,790	10,030
0.04	200,804	10,030

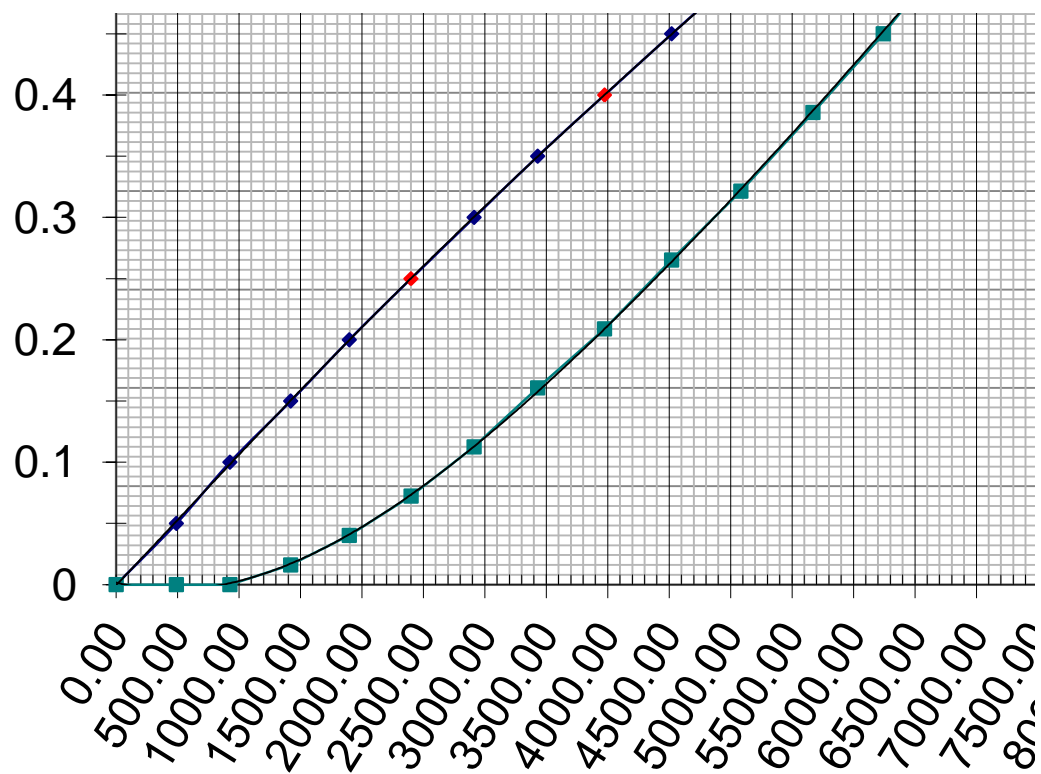
0.05 882.70

h proužky	V (m ³)	suma V (m3)	V tis m3	Q (m3/s)
0	0.00	0.00		0
0.05		490.00	0.490	0
0.1	925.58	925.58	0.926	0.00
0.15		1420	1.420	0.2
0.2	971.64	1897.22	1.897	0.50
0.25		2400	2.400	0.9
0.3	1015.41	2912.63	2.913	1.40
0.35		3430	3.430	2
0.4	1061.29	3973.92	3.974	2.60
0.45		4520	4.520	3.3
0.5	1109.25	5083.17	5.083	4.00
0.55		5670	5.670	4.8
0.6	1158.76	6241.93	6.242	5.60
0.65		6820	6.820	6.5
0.7	1207.17	7449.10	7.449	7.40
0.75		8060	8.060	8.4
0.8	1253.67	8702.77	8.703	9.30
0.85		9350	9.350	10.4
0.9	1300.75	10003.52	10.004	11.40
1.12				

0.22
0.62
1.14
1.7
1.7
1.7
1.7
1.7
1.7
1.7
1.7
1.7
1.7
1.7
1.7

1.79
5.06
9.29





Návrh bezpečnostního přelivu se zaoblenou přeliv

$Q = 11.2 \text{ m}^3/\text{s}$ hodnota odpovídá Q_{100}

$h = 0.8 \text{ m}$ výška přelivného paprsku navr:

$g = 9.81 \text{ m/s}$

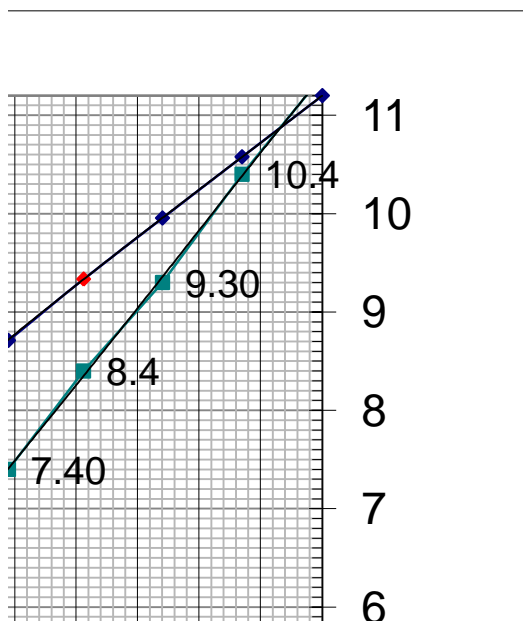
$\mu_p = 0.360$ součinitel pro zaoblenou přeliv

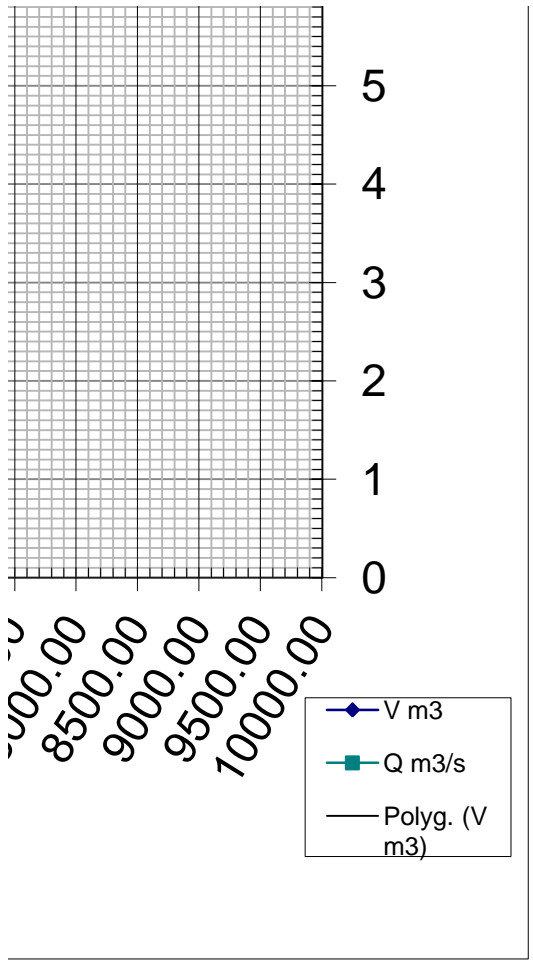
$b = 9.8 \text{ m} \Rightarrow$ návrh délky přelivné hrany

Návrh délky přelivné hrany 10.00 m

Konzumční křivka bezpečnostního přelivu

$h[\text{m}]$	$Q[\text{m}^3/\text{s}]$
0.00	0.0
0.05	0.2
0.10	0.5
0.15	0.9
0.20	1.4
0.25	2.0
0.30	2.6
0.35	3.3
0.40	4.0
0.45	4.8
0.50	5.6
0.55	6.5
0.60	7.4
0.65	8.4
0.70	9.3
0.75	10.4
0.80	11.4





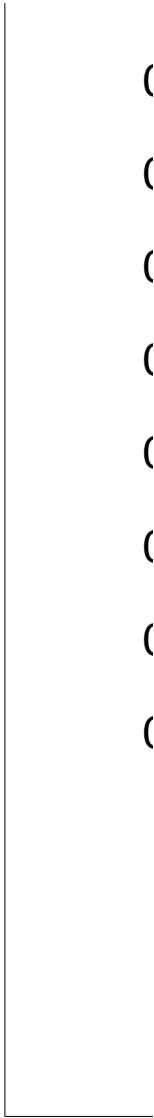
vnou hranou

žená

nou hranu z tabulek

odtoky při
PV100

Součtová čára odtoků při PV ₁₀₀			Součtová čára retence		vyska snizene hladiny ke hraně koruny hráze
Q (m3/s)	(m3)	v 1000 m3	v m3	v 1000 m3	
0	0	0.000	0	0.00	
0	0	0.000	306	0.31	
0	0	0.000	1,548	1.55	0.05
0	0	0.000	5,778	5.78	h proužky
4	7,200	7.200	8,100	8.10	0
7.89	21,402	21.402	9,216	9.22	0.05
10.3	39,942	39.942	9,810	9.81	0.1
11.1	59,922	59.922	10,026	10.03	0.15
10.9	79,542	79.542	10,062	10.06	0.2
10.39	98,244	98.244	10,062	10.06	0.25
9.64	115,596	115.596	10,062	10.06	0.3
8.65	131,166	131.166	10,062	10.06	0.35
7.54	144,738	144.738	10,062	10.06	0.4
6.44	156,330	156.330	10,062	10.06	0.45
5.39	166,032	166.032	10,062	10.06	0.5
4.41	173,970	173.970	10,062	10.06	0.55
3.54	180,342	180.342	10,062	10.06	0.6
2.82	185,418	185.418	10,062	10.06	0.65
2.26	189,486	189.486	10,062	10.06	0.7
1.8	192,726	192.726	10,062	10.06	0.75
1.4	195,246	195.246	10,062	10.06	0.8
1.03	197,100	197.100	10,062	10.06	0.85
0.71	198,378	198.378	10,062	10.06	0.9
0.47	199,224	199.224	10,062	10.06	1.12
0.32	199,800	199.800	10,062	10.06	
0.21	200,178	200.178	10,062	10.06	
0.14	200,430	200.430	10,062	10.06	
0.09	200,592	200.592	10,062	10.06	
0.06	200,700	200.700	10,062	10.06	
0.04	200,772	200.772	10,062	10.06	

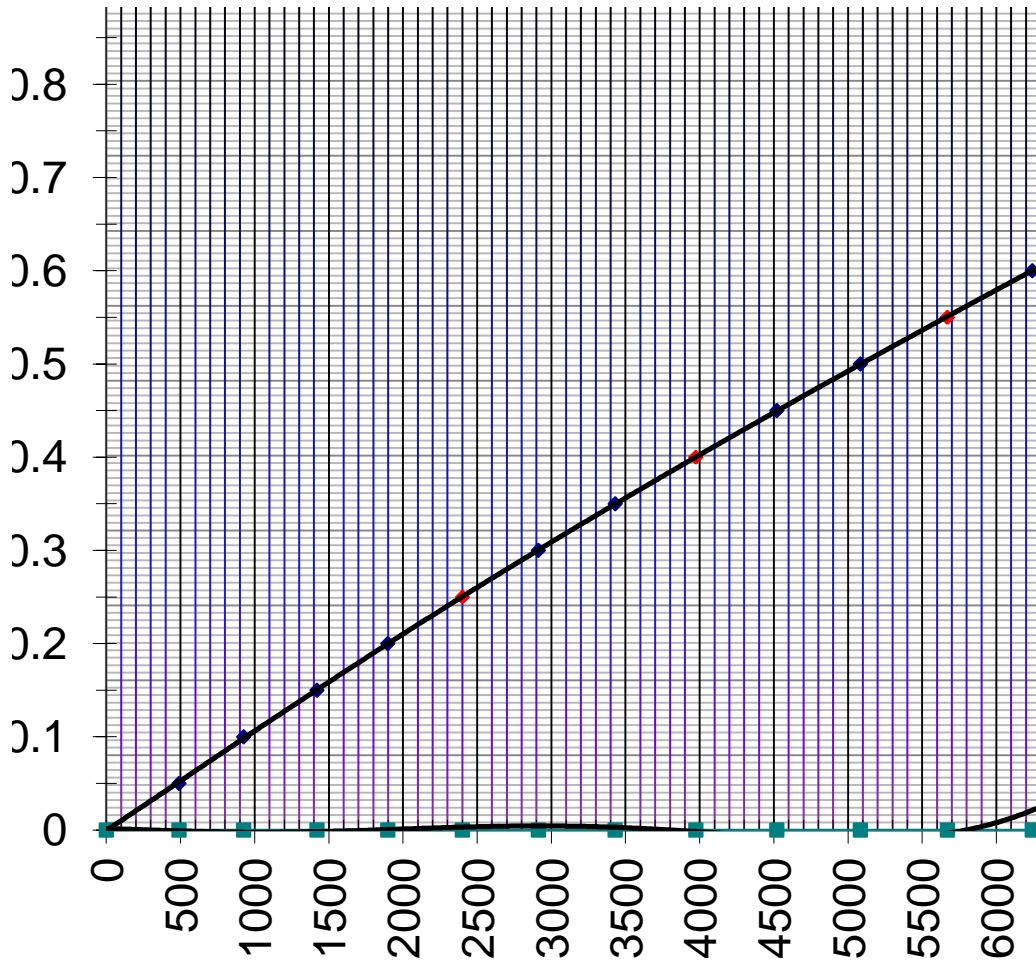


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882.70

V (m ³)	suma V (m3)	V tis m3	Q (m3/s)
0.00	0.00		0
	490.00		0
925.58	925.58	0.926	0.00
	1420		0
971.64	1897.22	0.972	0.00
	2400		0
1015.41	2912.63	1.015	0.00
	3430		0
1061.29	3973.92	1.061	0.00
	4520		0
1109.25	5083.17	1.109	0.00
	5670		0
1158.76	6241.93	1.159	0.00
	6820		0.8
1207.17	7449.10	1.207	2.20
	8060		4
1253.67	8702.77	1.254	6.20
	9350		8.6
1300.75	10003.52	1.301	11.30
		0.00	



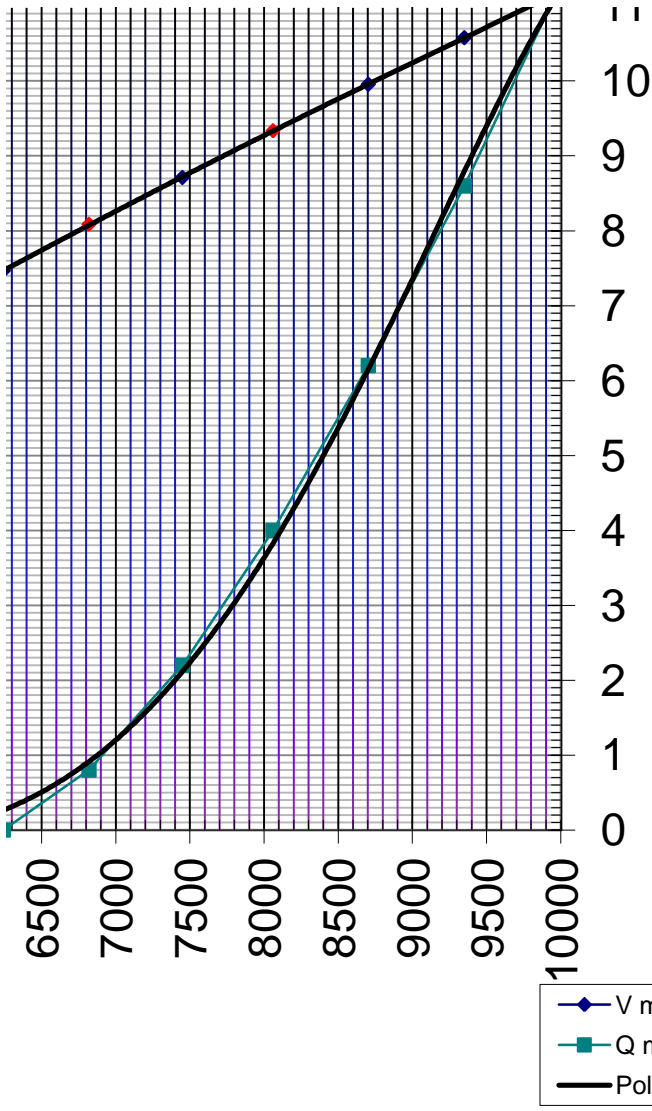


INTERPOLACE

Průtok vyšší	925.58	zadat	Q =	11.2	m ³ /s	hodnota o
Průtok nižší	882.7	zadat				
rozdíl průtoků	42.88					
Průtok zjišťovaný	0.5	zadat	h =	0.3	m	výška přel
Vzdálenost od nižší kóty	-882.2	výsledek	g =	9.81	m/s	
			μ_p =	0.555		součinitel
			b =	27.7	m	=> návrh délky přeliv
						Návrh délky přelivné hrany 28.00

Konzumční křivka bezpečnostního přelivu

h[m]	Q[m ³ /s]
0.00	0.0
0.05	0.8
0.10	2.2
0.15	4.0
0.20	6.2
0.25	8.6
0.30	11.3

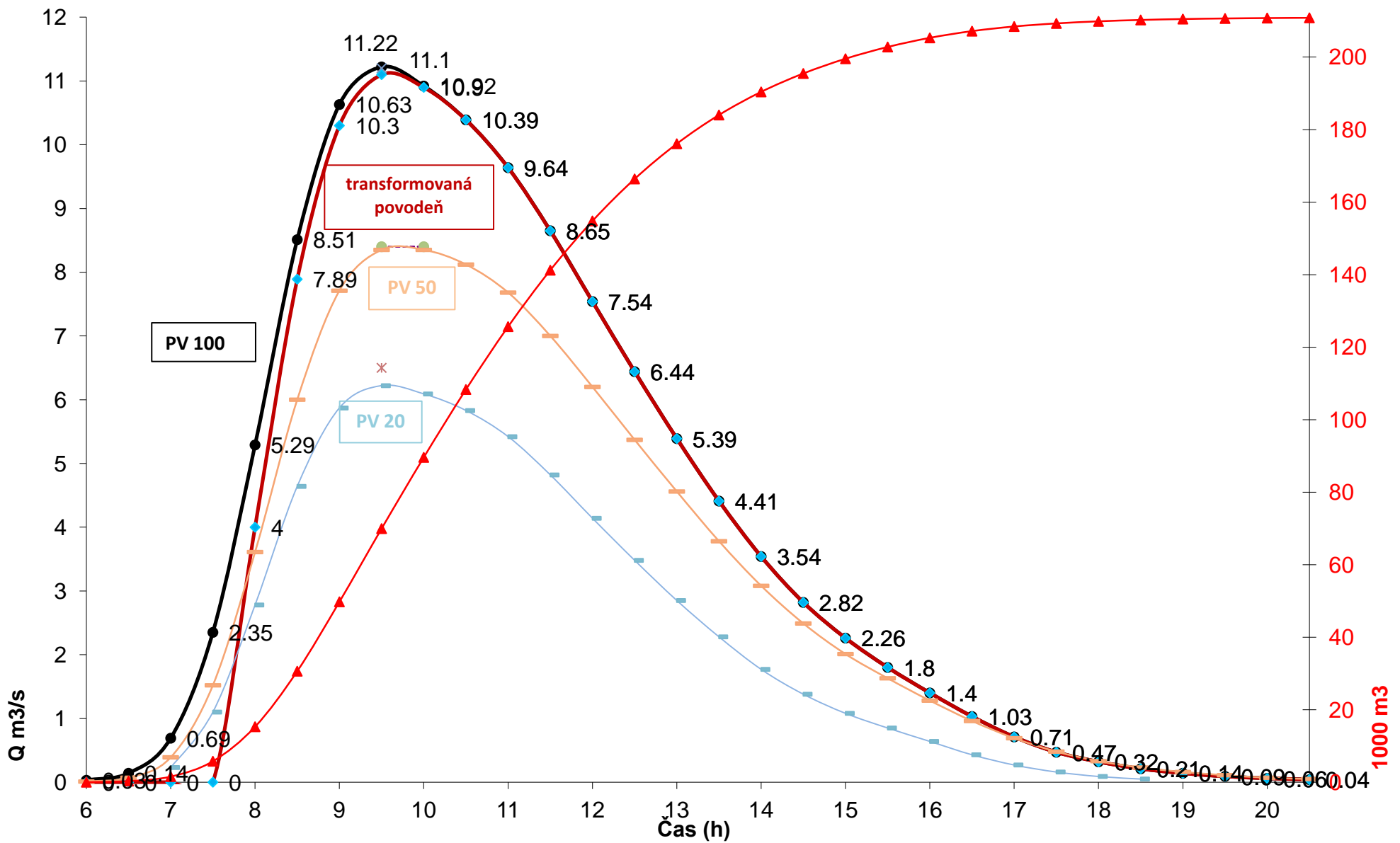


dpovídá Q_{100}

ivného paprsku navržená

pro zaoblenou přelivnou hranu z tabulek
né hrany
m

Ostrovský rybník

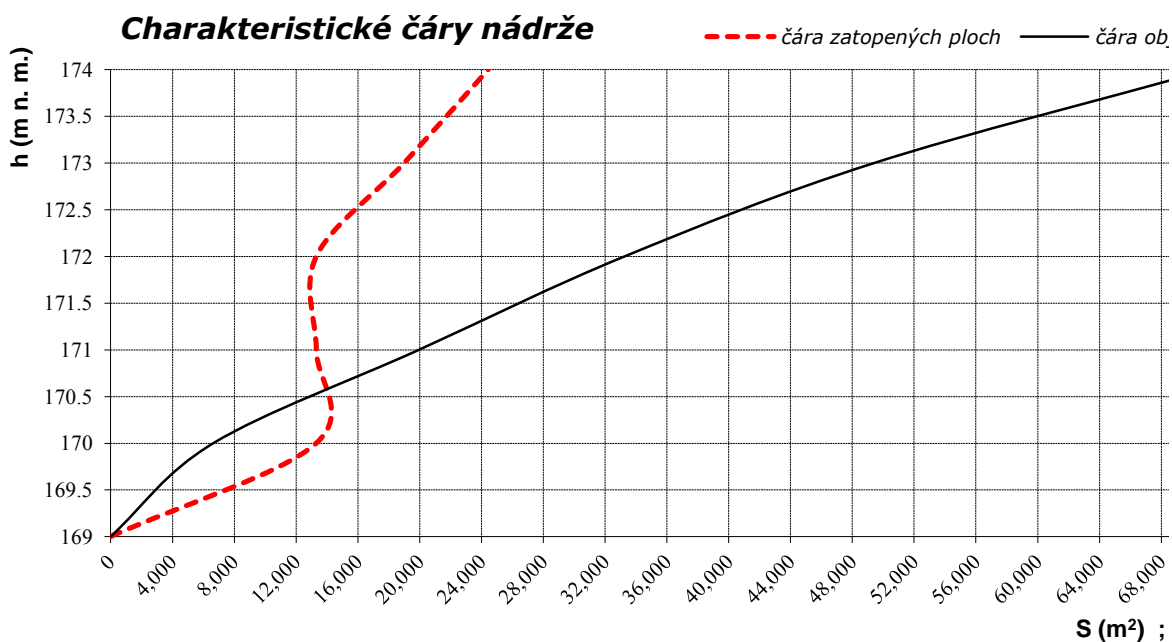


Výpočet charakteristických čar nádrže

h (m n. m.)	S (m ²)	$S \varnothing$ (m ²)	$D V$ (m ³)	$S V$ (m ³)	poznámka
169.0	0	6,654 13,307 13,307 13,307 16,149 21,709	0	0	dno
170.0	13,307		6,654	6,654	
171.0	13,307		13,307	19,961	
172.0	13,307		13,307	33,268	
173.0	18,991		16,149	49,417	$H_{\text{přelivu}}$
174.0	24,427		21,709	71,126	H_{max}
174.5					koruna hráze

$$D V = \Delta h \cdot S \varnothing$$

$$V_{\text{retenční}} = 71,126 \text{ m}^3$$



Návrh bezpečnostního přelivu se zaoblenou přelivnou hranou

$$Q = 6.8 \text{ m}^3/\text{s}$$

hodnota odpovídá $Q_{100} - Q_{10}$

Q_{20} převede otvor ve sdruženém objektu

$$Q_{100} = 11.2 \text{ m}^3/\text{s}$$

$$Q_{10} = 4.4 \text{ m}^3/\text{s}$$

$$h = 0.3 \text{ m}$$

výška přelivného paprsku odvozená z

$$g = 9.81 \text{ m/s}$$

$$\mu_p = 0.410$$

součinitel pro zaoblenou přelivnou hranu z tabu

$$b = 22.8 \text{ m} \Rightarrow \text{návrh délky přelivné hrany}$$

Návrh délky přelivné hrany 23 m

Konzumční křivka přelivu

h[m]	Q[m ³ /s]
0.02	0.1
0.04	0.3
0.06	0.6
0.08	0.9
0.10	1.3
0.12	1.7
0.14	2.2
0.16	2.7
0.18	3.2
0.20	3.7
0.22	4.3
0.24	4.9
0.26	5.5
0.28	6.2
0.30	6.9



ujemů



72,000

V (m³)

ulek

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7

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