OP2

vyústění do toku

Výpočet kapacity příkopu Q_N= **1.45 m^3/s**

$Q = S*v$ **R= S/O** **$c = 1/n*R^{1/6}$**

$v = c*(R*I)^{1/2}$ **$n = (O_1*n_1^{1,5} + \ldots\ldots + O_i*n_i^{1,5})^{2/3}/O^{2/3}$**

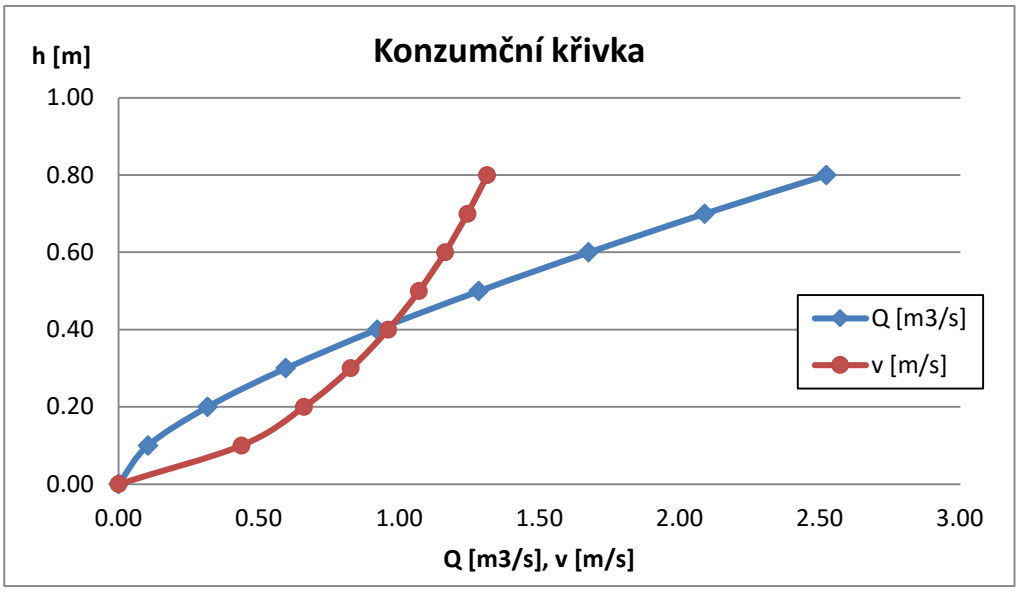
š.dno=	2.40 m	n=	0.033	I=	0.00500	
sklony	0.00	d_e=	0.20000	I=	**0.50** %	

	h (m)	S (m^2)	O (m)	R (m)	C -	v (m/s)	Q_{vyp} (m^3/s)
	0.00	0.00	0.00	0.00	0.00	0.00	0.000
	0.10	0.24	2.60	0.092	20.372	0.438	0.105
	0.20	0.48	2.80	0.171	22.586	0.661	0.317
	0.30	0.72	3.00	0.240	23.888	0.828	0.596
	0.40	0.96	3.20	0.300	24.794	0.960	0.922
	0.50	1.20	3.40	0.353	25.474	1.070	1.284
	0.60	1.44	3.60	0.400	26.011	1.163	1.675
	0.70	1.68	3.80	0.442	26.449	1.244	2.089
	0.80	1.92	4.00	0.480	26.814	1.314	2.522
Qkap	0.38	**0.91**	**3.16**	**0.289**	**24.634**	**0.936**	**0.853**

Výpočet stability příkopu

$v_v = 5{,}556 * h^{1/6} * d_e^{1/3}$ **$\tau_k = 0{,}7753 * \rho * d_e$**

	h (m)	R (m)	v (m/s)	v_v (m/s)	τ (Pa)	τ_k (Pa)	posuzení stability (návrhový průtok)	
	0.20	0.171	0.661	2.485	8.409	155.060		
	0.30	0.240	0.828	2.658	11.772	155.060		
	0.40	0.300	0.960	2.789	14.715	155.060		
	0.50	0.353	1.070	2.895	17.312	155.060		
	0.60	0.400	1.163	2.984	19.620	155.060		
	0.70	0.442	1.244	3.062	21.685	155.060		
	0.80	0.480	1.314	3.131	23.544	155.060	$v < v_v$	$\tau < \tau_k$
Qkap	**0.380**	**0.289**	**0.936**	**2.765**	**14.156**	**155.060**	**OK**	**OK**



OP2

pod propustkem P6 - minimální skon

Výpočet kapacity příkopu Q_N= **1.45 m^3/s**

$Q = S*v$ **R= S/O** **$c = 1/n*R^{1/6}$**

$v = c*(R*I)^{1/2}$ **$n = (O_1*n_1^{1,5} + \ldots\ldots + O_i*n_i^{1,5})^{2/3}/O^{2/3}$**

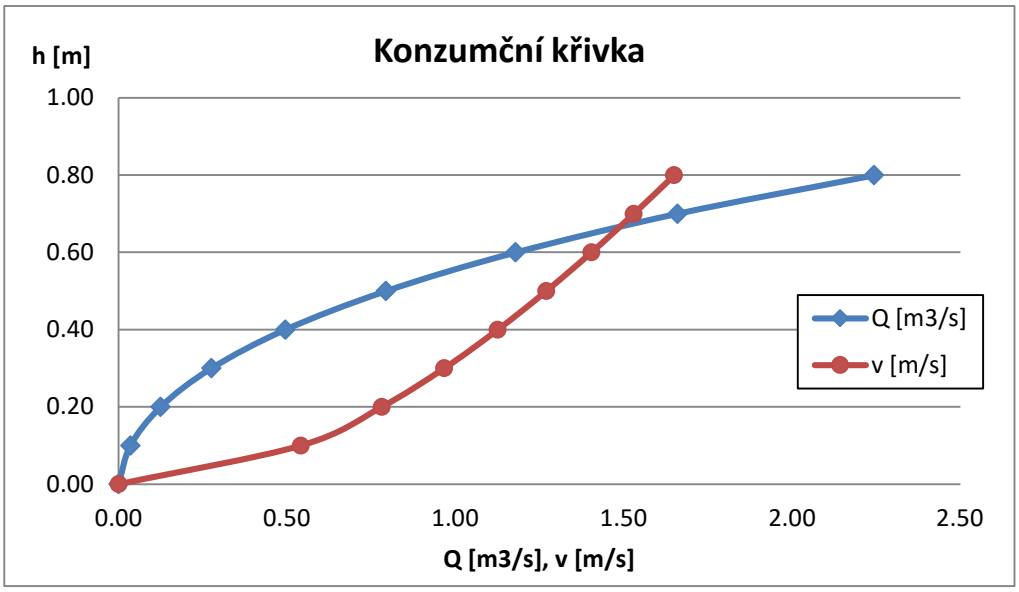
š.dno=	0.50 m		n=	0.033	I=	0.01000
sklony	1.50		d_e=	0.20000	I=	**1.00** %

	h (m)	S (m^2)	O (m)	R (m)	C -	v (m/s)	Q_{vyp} (m^3/s)
	0.00	0.00	0.00	0.00	0.00	0.00	0.000
	0.10	0.07	0.86	0.076	19.702	0.541	0.035
	0.20	0.16	1.22	0.131	21.596	0.782	0.125
	0.30	0.29	1.58	0.180	22.774	0.967	0.276
	0.40	0.44	1.94	0.227	23.660	1.126	0.495
	0.50	0.63	2.30	0.271	24.383	1.270	0.794
	0.60	0.84	2.66	0.315	25.001	1.404	1.179
	0.70	1.09	3.02	0.359	25.544	1.530	1.660
	0.80	1.36	3.38	0.402	26.031	1.650	2.244
Qkap	0.66	**0.98**	**2.88**	**0.341**	**25.335**	**1.481**	**1.456**

Výpočet stability příkopu

$v_v = 5{,}556 * h^{1/6} * d_e^{1/3}$ **$\tau_k = 0{,}7753 * \rho * d_e$**

	h (m)	R (m)	v (m/s)	v_v (m/s)	τ (Pa)	τ_k (Pa)	posuzení stability (návrhový průtok)	
	0.20	0.131	0.782	2.485	12.854	155.060		
	0.30	0.180	0.967	2.658	17.677	155.060		
	0.40	0.227	1.126	2.789	22.224	155.060		
	0.50	0.271	1.270	2.895	26.625	155.060		
	0.60	0.315	1.404	2.984	30.940	155.060		
	0.70	0.359	1.530	3.062	35.199	155.060		
	0.80	0.402	1.650	3.131	39.420	155.060	$v < v_v$	$\tau < \tau_k$
Qkap	**0.660**	**0.341**	**1.481**	**3.032**	**33.501**	**155.060**	**OK**	**OK**



OP2

pod propustkem P6 - maximální skon

Výpočet kapacity příkopu Q_N= **1.45 m^3/s**

$Q = S*v$ **R= S/O** **$c = 1/n*R^{1/6}$**

$v = c*(R*I)^{1/2}$ **$n = (O_1*n_1^{1,5} + \ldots\ldots + O_i*n_i^{1,5})^{2/3}/O^{2/3}$**

š.dno= 0.50 m n= 0.033 I= 0.10000

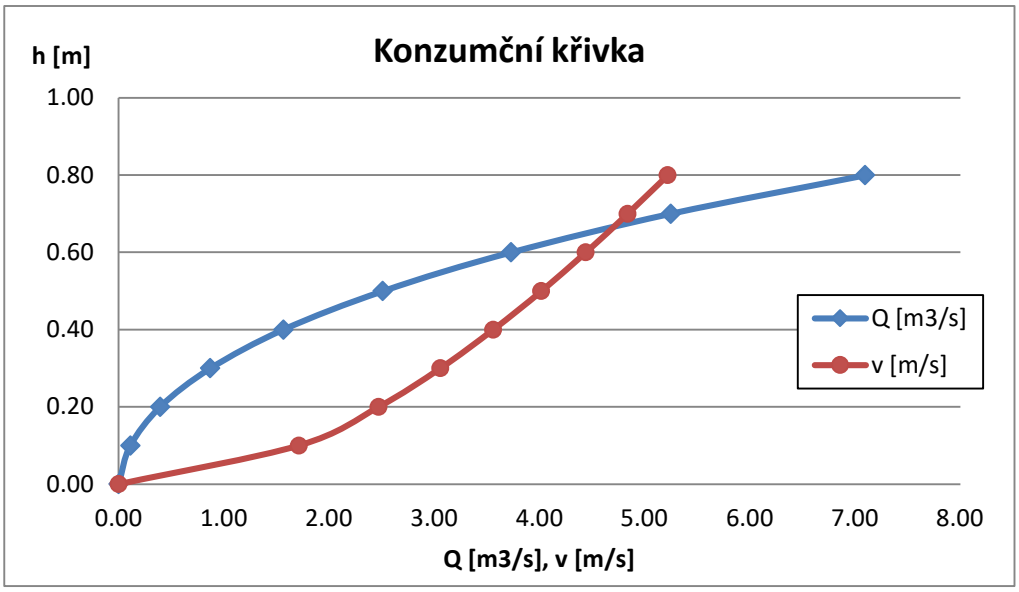
sklony 1.50 d_e= 0.45000 I= **10.00** %

	h (m)	S (m^2)	O (m)	R (m)	C -	v (m/s)	Q_{vyp} (m^3/s)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.10	0.07	0.86	0.076	19.702	1.712	0.111
	0.20	0.16	1.22	0.131	21.596	2.472	0.396
	0.30	0.29	1.58	0.180	22.774	3.057	0.871
	0.40	0.44	1.94	0.227	23.660	3.561	1.567
	0.50	0.63	2.30	0.271	24.383	4.017	2.511
	0.60	0.84	2.66	0.315	25.001	4.440	3.730
	0.70	1.09	3.02	0.359	25.544	4.839	5.250
	0.80	1.36	3.38	0.402	26.031	5.218	7.097
Qkap	0.39	**0.42**	**1.91**	**0.222**	**23.580**	**3.513**	**1.487**

Výpočet stability příkopu

$v_v = 5{,}556 * h^{1/6} * d_e^{1/3}$ **$\tau_k = 0{,}7753 * \rho * d_e$**

	h (m)	R (m)	v (m/s)	v_v (m/s)	τ (Pa)	τ_k (Pa)	posuzení stability (návrhový průtok)	
	0.20	0.131	2.472	3.256	128.539	348.885		
	0.30	0.180	3.057	3.484	176.766	348.885		
	0.40	0.227	3.561	3.655	222.240	348.885		
	0.50	0.271	4.017	3.793	266.255	348.885		
	0.60	0.315	4.440	3.910	309.402	348.885		
	0.70	0.359	4.839	4.012	351.992	348.885		
	0.80	0.402	5.218	4.102	394.204	348.885	$v < v_v$	$\tau < \tau_k$
Qkap	**0.390**	**0.222**	**3.513**	**3.639**	**217.772**	**348.885**	**OK**	**OK**



OP2

nad propustkem P6 - minimální sklon

Výpočet kapacity příkopu Q_N= **1.03 m^3/s**

$Q = S*v$ **R= S/O** **$c = 1/n*R^{1/6}$**

$v = c*(R*I)^{1/2}$ **$n = (O_1*n_1^{1,5} + \ldots\ldots + O_i*n_i^{1,5})^{2/3}/O^{2/3}$**

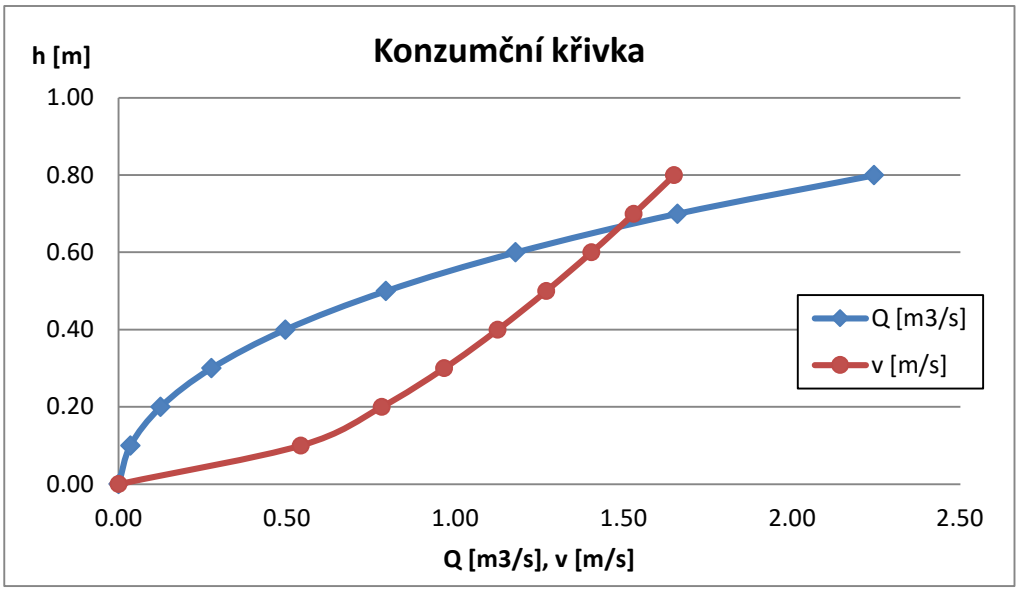
š.dno=	0.50 m		n=	0.033	I=	0.01000
sklony	1.50		d_e=	0.20000	I=	**1.00** %

	h (m)	S (m^2)	O (m)	R (m)	C -	v (m/s)	Q_{vyp} (m^3/s)
	0.00	0.00	0.00	0.00	0.00	0.00	0.000
	0.10	0.07	0.86	0.076	19.702	0.541	0.035
	0.20	0.16	1.22	0.131	21.596	0.782	0.125
	0.30	0.29	1.58	0.180	22.774	0.967	0.276
	0.40	0.44	1.94	0.227	23.660	1.126	0.495
	0.50	0.63	2.30	0.271	24.383	1.270	0.794
	0.60	0.84	2.66	0.315	25.001	1.404	1.179
	0.70	1.09	3.02	0.359	25.544	1.530	1.660
	0.80	1.36	3.38	0.402	26.031	1.650	2.244
Qkap	0.57	**0.77**	**2.56**	**0.302**	**24.825**	**1.365**	**1.054**

Výpočet stability příkopu

$v_v = 5{,}556 * h^{1/6} * d_e^{1/3}$ **$\tau_k = 0{,}7753 * \rho * d_e$**

	h (m)	R (m)	v (m/s)	v_v (m/s)	τ (Pa)	τ_k (Pa)	posuzení stability (návrhový průtok)	
	0.20	0.131	0.782	2.485	12.854	155.060		
	0.30	0.180	0.967	2.658	17.677	155.060		
	0.40	0.227	1.126	2.789	22.224	155.060		
	0.50	0.271	1.270	2.895	26.625	155.060		
	0.60	0.315	1.404	2.984	30.940	155.060		
	0.70	0.359	1.530	3.062	35.199	155.060		
	0.80	0.402	1.650	3.131	39.420	155.060	$v < v_v$	$\tau < \tau_k$
Qkap	**0.570**	**0.302**	**1.365**	**2.959**	**29.653**	**155.060**	**OK**	**OK**



OP2

nad propustkem P6 - maximální sklon

Výpočet kapacity příkopu Q_N= **1.03 m^3/s**

$Q = S*v$ **R= S/O** **$c = 1/n*R^{1/6}$**

$v = c*(R*I)^{1/2}$ **$n = (O_1*n_1^{1,5} + \ldots\ldots + O_i*n_i^{1,5})^{2/3}/O^{2/3}$**

š.dno=	0.50 m	n=	0.033	I=	0.10000	
sklony	1.50	d_e=	0.40000	I=	**10.00** %	

	h (m)	S (m^2)	O (m)	R (m)	C -	v (m/s)	Q_{vyp} (m^3/s)
	0.00	0.00	0.00	0.00	0.00	0.00	0.000
	0.10	0.07	0.86	0.076	19.702	1.712	0.111
	0.20	0.16	1.22	0.131	21.596	2.472	0.396
	0.30	0.29	1.58	0.180	22.774	3.057	0.871
	0.40	0.44	1.94	0.227	23.660	3.561	1.567
	0.50	0.63	2.30	0.271	24.383	4.017	2.511
	0.60	0.84	2.66	0.315	25.001	4.440	3.730
	0.70	1.09	3.02	0.359	25.544	4.839	5.250
	0.80	1.36	3.38	0.402	26.031	5.218	7.097
Qkap	0.33	**0.33**	**1.69**	**0.194**	**23.062**	**3.215**	**1.056**

Výpočet stability příkopu

$v_v = 5{,}556 * h^{1/6} * d_e^{1/3}$ **$\tau_k = 0{,}7753 * \rho * d_e$**

	h (m)	R (m)	v (m/s)	v_v (m/s)	τ (Pa)	τ_k (Pa)	posuzení stability (návrhový průtok)	
	0.20	0.131	2.472	3.131	128.539	310.120		
	0.30	0.180	3.057	3.349	176.766	310.120		
	0.40	0.227	3.561	3.514	222.240	310.120		
	0.50	0.271	4.017	3.647	266.255	310.120		
	0.60	0.315	4.440	3.760	309.402	310.120		
	0.70	0.359	4.839	3.857	351.992	310.120		
	0.80	0.402	5.218	3.944	394.204	310.120	$v < v_v$	$\tau < \tau_k$
Qkap	**0.330**	**0.194**	**3.215**	**3.403**	**190.617**	**310.120**	**OK**	**OK**