

# DBP

DUBINSKE BUNARSKE PUMPE  
*DEEP WELL PUMPS*



## PRIMENA

Dubinske bunarske pumpe namenjene su za crpljenje vode sa dubina koje su veće od usisnih visina pumpi horizontalnog izvođenja. Koriste se u vodovodnim sistemima, industriji za snabdevanje, građevinarstvu i rudarstvu za sniženje ili održavanje nivoa podzemnih voda i sl.

## OPIS IZVOĐENJA

Dubinske bunarske pumpe izvede se sa radialnim ili poluaksijalnim radnim kolima, zavisno od kapaciteta pumpe. Voda u hidraulički deo pumpe ulazi kroz usisnu korpu ili usisno zvono, koji se sastoji iz gornjeg i donjeg nosača ležaja. Između njih se nalazi porteban broj stepeni (kućiste sa radnim kolom), u zavisnosti od zahtevane karakteristike pumpe. Radno kolo postavljeno je na hidrauličko vratilo. Na hidraulički deo nastavlja se cevna kolona sa nosačima međuležaja čiji se broj menja zavisno od dužine pumpe. U svaki cevni nastavak ulazi međuvratilo sa spojnicom preko koje se prenosi obrtni moment. Zadnji cevni nastavak ima izlazni komad ukoliko je zahtevani izlaz pumpe ispod poda postrojenja. Cevna kolona povezana je sa nosećim delom pumpe na kome se nalaze nosač ležaja i elektromotora. Ukoliko je zahtevani izlaz pumpe iznad poda, izlazno koleno biće smešteno u nosaču pumpe. Nosač pumpe se niveliše i učvršćuje na okvir u podu postrojenja, a potisni vod se povezuje na izlazni deo pumpe. Uležištenje vratila u međustepenima kao i u stepenima pumpe izvedeno je gumenim ležajevima. Ako postoji potreba za ispiranjem, dovodi se posebnim vodom čista voda na gumene ležajeve. Vratila su međusobno povezana spojnica. U nosaču motora smešteno je kućiste aksijalnog ležaja koji je obično podmazivan uljem. Na izlazu vratila iz kućista pumpe vrši se zaptivanje pletenicom, a na zahev kupca može se ugraditi i mehanička zaptivka. Na zahtev kupca, za posebne uslove rada, u pumpe se mogu ugraditi klizni ležajevi drugačije materijalne izvedbe (bronzna, grafit...).

## POGON PUMPE

Pogon pumpi sa vertikalnim prirubnim elektromotorom je najčešći slučaj i može se koristiti kod svih dubinskih bunarskih pumpi.

Prenos snage sa elektromotora na pumpu vrši se pomoću elastične spojnice. Da se pumpa ne bi obrnula u smeru suprotnom od potrebnog spečava je kočnica preko valjaka ugrađenih u spojnicu. U zavisnosti od režima rada pogon pumpe može se vršiti u tri osnovne izvedbe:

- A - direktno preko elektromotora
- B - pogon preko zupčastog prenosnika
- C - kombinovani pogon

## USES

Deep Well pumps are intended for transport of water from depths that are greater than suction heights of horizontal performance pumps. They are used in water supply systems, industry supply, construction and mining for reducing or maintaining groundwater levels etc.

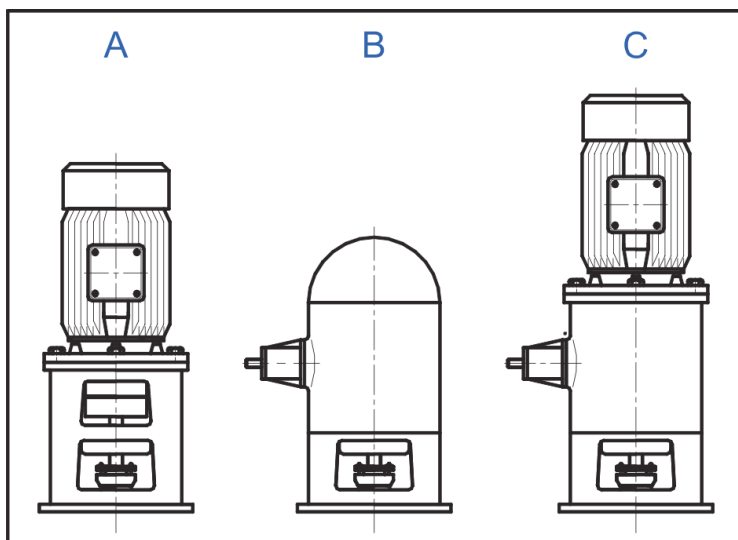
## PERFORMANCE

Deep Well pumps are made with radial or semi axial impellers, depending on the capacity of the pump. Water in hydraulic part of the pump goes into a suction basket, which consists of top and bottom house bearing. Between them there is a necessary number of degreases (pump body with impeller), depending on the required characteristics of the pump. Impeller is set to hydraulic shaft. The hydraulic part is continued into a pipe with carriers of intermediate bearings whose number varies depending on the length of the pump. A shaft, with a coupling through which the torque is transmitted, goes in each pipe. End of the pipe has an output piece if the required output of the pump is under the floor of the plant. Pipe is connected with pump base that includes the mounting of the bearing and electric motor. If the required pump output is above the floor, discharge elbow will be positioned in the pump mounting. Pump mounting is leveled and secured to the frame in the floor installation, and discharge pipe is connected to the output of the pump. Shaft bearings are made of rubber. If there is a need for flushing, clean water is lead on rubber bearings with a special lead. Shafts are connected with couplings. House of axial bearings, which is usually lubricated with oil, is positioned in the motor mounting. Shaft in the pump housing is sealed with a soft packing. A mechanical seal can be installed on request. Also, if requested for special operating conditions, sliding bearings of different materials (bronze, graphite...) can be installed.

## DRIVING OF PUMP

Pumps are mostly driven by vertical flanged electric motor and it can be used for all deep well pumps. Power is transferred from electric motor onto pump by elastic coupling. To prevent the pump from reversing in the direction opposite to the required one, the braking system with rollers is installed in the coupling. Depending on the working conditions, the driving of pumps could be done in three basic versions:

- A - directly over the electric motors
- B - drive through reducer
- C - combined drive



## PORUDŽBINA PUMPE

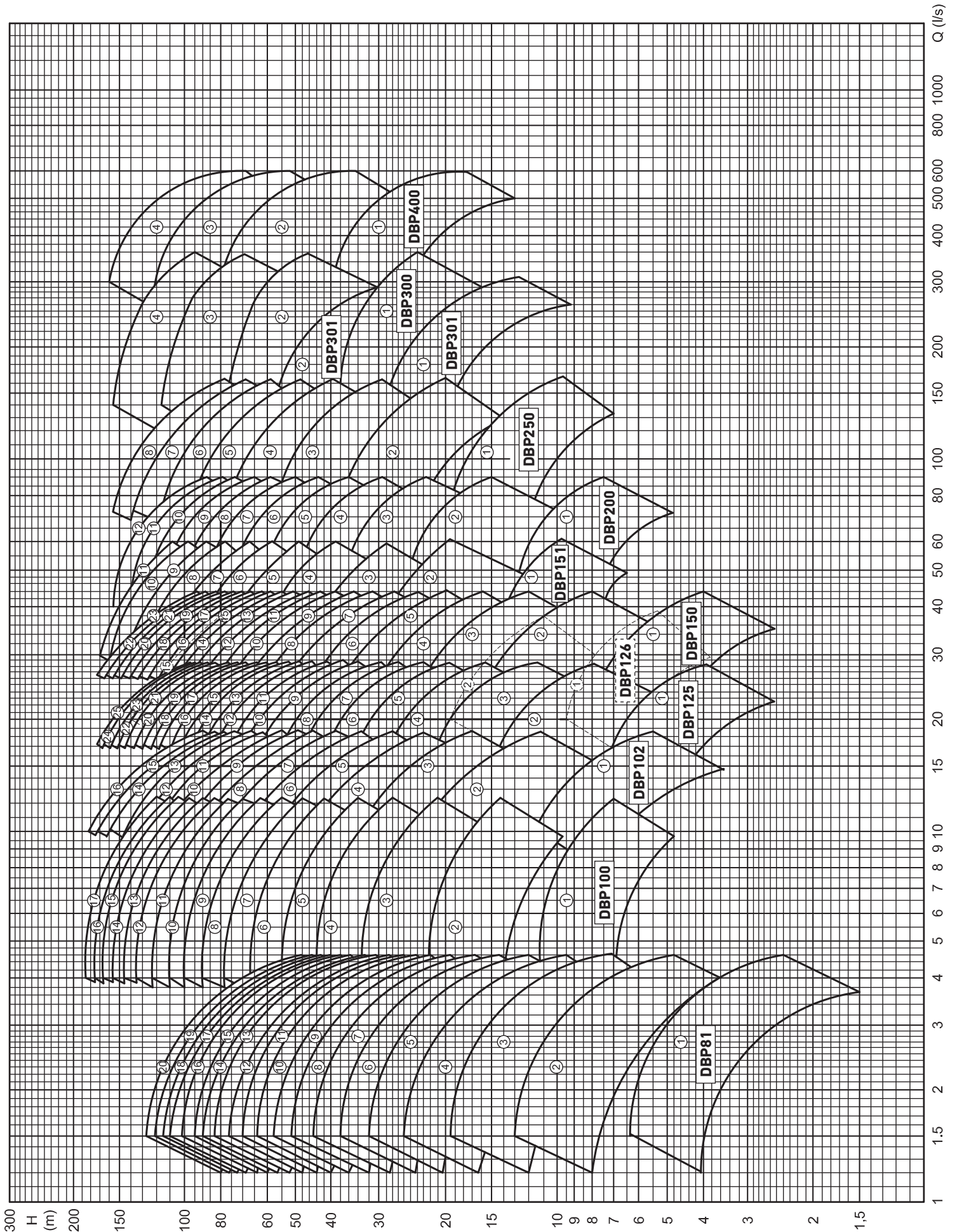
Osim navedenih podataka u katalogu kod porudžbine pumpe preporučuje se navesti i sledeće:

- maksimalna dužina pumpe od poda postrojenja do usisne korpe ili zvona
- minimalni nivo vode u bunaru
- minimalni otvor bunara
- vrstu radnog medija (morska ili slatka voda, agresivnost medija, pH vrednost, hemijski sastav, stepen nečistoće, sadržaj nečistoća i dr).

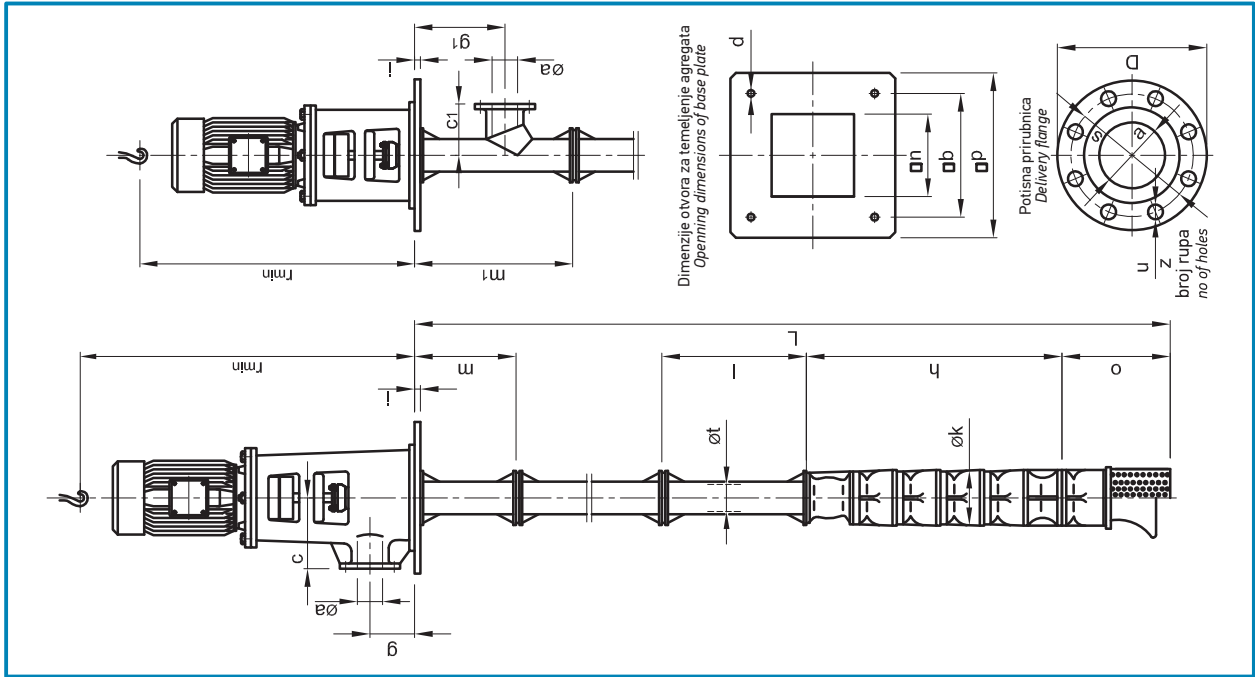
## PUMP ORDER

In addition to the above data in the catalog when ordering the pump it is recommended to indicate the following as well:

- maximum length of the pump from the floor of the plant up to the suction basket
- minimum water level in the well
- minimum opening of well
- type of working media (water or salt water, aggressive media, pH, chemical composition, degree of impurities, inclusion content, etc).



## MERNA SKICA AGREGATA PUMPE DRAWING MEASURES OF PUMP SET (mm)



Tip pumpe Type of pump	Broj stepeni No of stages	a	b	c	c1	d	g	g1	i	l	m	m1	n	o	p	r <sub>min</sub>	øt	L
81	1-20	80	450	210	150		115			135	300		300	335	540		80	Dužinu pumpe određuje projekat / Length of pump depends on the project
100	1-20	100	600	300		20	200			160			450	680		100		
102	1-8	100	450	210			125		20	165			300	540				
	9-16	600	600	300			200			235		1000	450	400	680	3500		
125	1-5		800	350					20	270			550	890			150	
	6-25	125	600	300	200					270			450	680				
126	1-4		800	350						240			550	890				
	5-15		800	350						240			450	680				
150	1-3		600	300			250						550	890				
	4-21		800	430									450	680			180	
	1	150	600	300									550	890				
151	2-7		800	430		23				335			550	890				
	8-11	200	920		250						1550		690	1000			200	
200	1	150	600	300	200						1000		450	680			180	
	2-6	200	800	400	250								550	890			200	
	7-12		920															
250	1-2	250	800				350		25	415			690	1000	4000		250	
	3-5		920															
	6-8		920															
300	1		450					1000		540		1550					300	
	2-4	300	700															
301	1-2		1100			28	400			495				1200				
	1	350	500							545							400	
400	2		1300	210	450		430											
	3-4	500																

Tip pumpe Type of pump	NP (bar)	81	100	102	125	126	150	151	200	250	300	301	400
NP (bar)		10	16	10	16	25	10	16	25	10	16	10	16
Br stepeni No of stages		1-17/18-20	1-9	10-14/15-17	1-7	8-11/12-16	1-14/15-21	1-15	1-3	4-13/4-19	20-21	1-7	8-11
s		160	180	190	180	190	210	240	250	240	295	350	355
D		200	220	235	250	270	250	285	300	285	340	285	340
u		18	18	23	18	23	18	27	18	18	23	27	23
Z broj rupa / no of holes		4	8	8	8	8	8	8	8	12	12	8	12
Usis pumpe Pump suction		80	100	125	150	170	200	250	300	350			

Dužina hidrauličkog dela pumpe „h“ (mm)  
u zavisnosti od broja stepeni

Length of hydraulic part of pump “h” (mm)  
depending on the number of stages

Tip pumpe Type of pump	Broj stepeni / No. of stages																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
81	239	287	335	383	431	479	527	575	623	671	719	767	815	863	911	959	1007	1055	1103	1151					
100	423	546	669	792	915	1038	1161	1284	1407	1530	1653	1776	1899	2022	2145	2268	2391								
102	400	525	650	775	900	1025	1150	1275	1400	1525	1650	1775	1900	2025	2150	2275									
125	660	840	1020	1200	1380	1560	1740	1920	2100	2500	2680	2860	3040	3220	3400	3580	3760	3940	4340	4520	4700	4880	5060	5240	5420
126	585	795	1005	1215	1425	1635	1845	2055	2505	2715	2925	3135	3345	3555	3765										
150	545	780	1015	1406	1641	1876	2311	2546	2781	3016	3251	3486	3721	3956	4191	4626	4861	5096	5331	5566	5801				
151	695	960	1225	1490	1755	2020	2285	2750	3015	3280	3545														
200	700	960	1220	1480	1740	2000	2460	2720	2980	3240	3500	3760													
250	749	1033	1317	1601	1885	2169	2453	2737																	
300	988	1403	1818	2233																					
301	844	1184																							
400	1225	1750	2275	2800																					

Masa pumpe (kg)

Weight of pump (kg)

Tip pumpe Type of pump	Broj stepeni No of stages (n)	Masa potisnog priključka Weight of delivery connection		Masa cevnog nastavka Weight of pipe extension (l=2000mm)	Masa hidrauličkog dela Weight of hydraulic part	
		Potis gore Delivery up	Potis dole Delivery down			
		A	B			
81	1 - 20	170	170	18	14+3.5x(n-1)	Σ=B+C+D potis dole delivery down
100	1 - 10	175	181	29	14+7xn	
100	11 - 17	253	242	29	14+7xn	
102	1 - 8	175	181	29	15+10xn	
102	9 - 16	252	242	30	15.5+10.2xn	
125	1 - 5	347	263	70	64+24xn	
125	6 - 25	493	494	70	95+24xn	
126	1 - 4	347	263	70	55+33xn	
126	5 - 15	493	494	70	96+33xn	
150	1 - 3	347	263	70	58+33xn	
150	4 - 21	596	500	85	98+33xn	
151	1	312	269	80	70+57xn	
151	2 - 7	596	500	85	71+57xn	
151	8 - 11	970	850	120	100+57xn	
200	1	312	269	80	61+64xn	
200	2 - 6	532	522	115	110+64xn	
200	7 - 12	1025	915	162	152+64xn	
250	1 - 2	725	580	163	165+110xn	
250	3 - 5	1060	904	163	165+110xn	
250	6 - 8	1070	930	234	170+112xn	
300	1	1200	962	232	245+240xn	
300	2	2300	1600	234	245+240xn	
300	3 - 4	2300	1600	263	250+240xn	
301	1 - 2	1200	960	232		
400	1	1270	980	252	310+315xn	
400	2 - 3	2300	1600	283	310+315xn	
400	4	2300	1600	303	328+318xn	
						Ukupna masa Total weight Σ

Pozicija	Naziv dela	Vrsta materijalnog izvođenja		
		Standardno	Morska voda	Kiselootporno
101	Kučiste ležaja - prednje	SL25	PCuAl10Fe3	ČL4574
102	Kučiste pumpe			
103	Kučiste ležaja - zadnje			
105	Cevni nastavak	Č 0361	Č 4580	Č 4574
109	Nosač međuležaja	SL25	PCuAl10Fe3	ČL4574
116	Izlazno kučiste	ČL0361	Č 4580	ČL4574
211	Radno kolo	SL25	PCuAl10Fe3	ČL4574
212	Vratilo pumpe	Č 4570		
213	Međuvratilo	Č 4172	Č 4574	Č 4574
214	Vratilo - pogonsko			
215	Zaštitna čaura	Č 4172	Č 4574	Č 4574
219	Spojnicavratila	Č 4172	Č 4574	Č 4574
319	Nosač pletenice	SL25	ČL4574	ČL4574
321	Pritezač pletenice	SL25	ČL4574	ČL4574

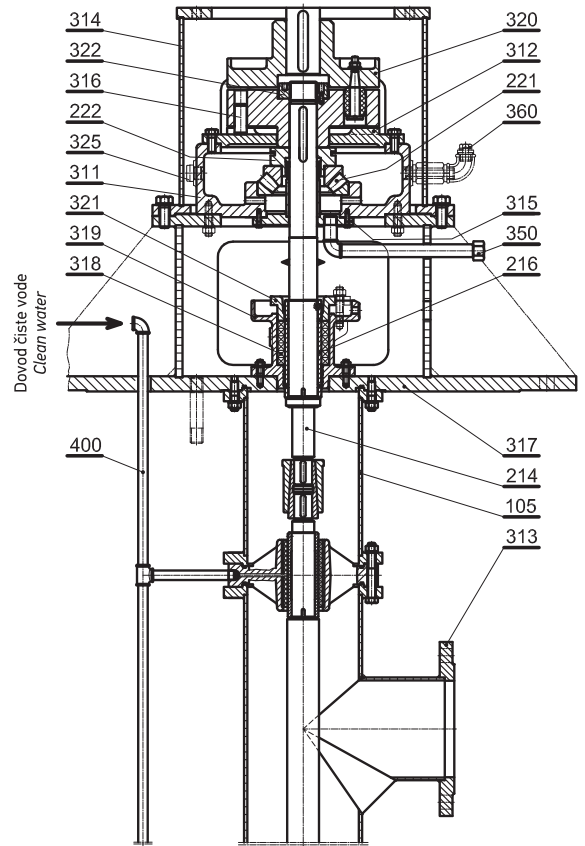
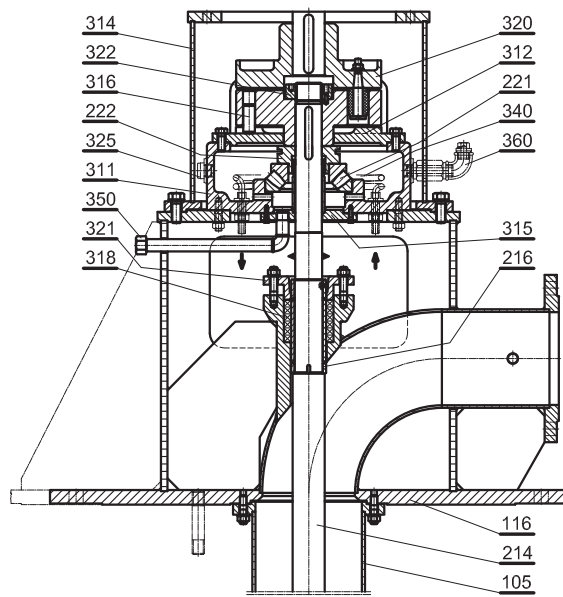
Item	Part name	Materials		
		Standard	Sea water	Acid-resistant
101	Bearing bracket- front	GJL25	PCuAl10Fe3	AISI316
102	Casing			
103	Bearing bracket- back			
105	Pipe	S235JR	AISI304	AISI316
109	Intermediate bearing mounting	GJL25	PCuAl10Fe3	AISI316
116	Discharge casing	S235JR	AISI304	AISI316
211	Impeller	GJL25	PCuAl10Fe3	AISI316
212	Shaft	AISI431	AISI316	AISI316
213	Intermediate shaft	AISI420		
214	Driving shaft			
215	Protection sleeve	AISI420	AISI316	AISI316
219	Shaft coupling	AISI420	AISI316	AISI316
319	Packing housing	GJL25	AISI316	AISI316
321	Stuffing box gland	GJL25	AISI316	AISI316



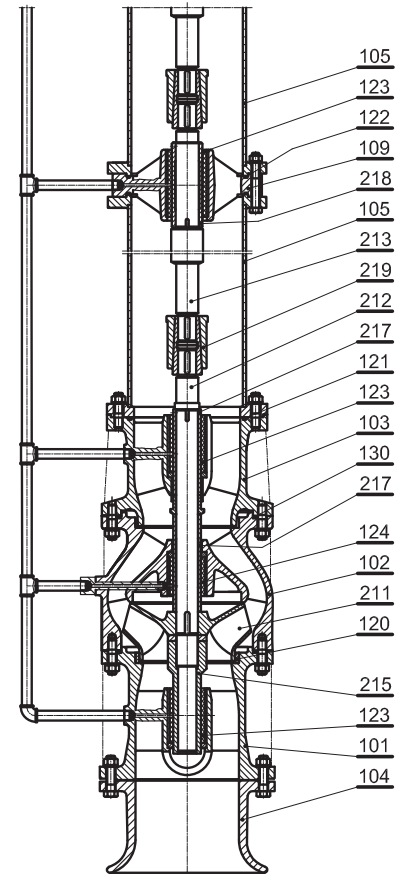
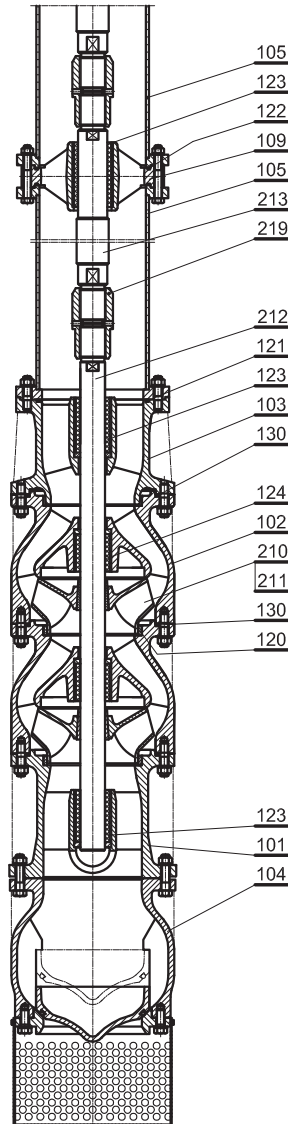
## Pogonski deo pumpe – izlaz iznad poda Driving of pump – above the floor

## Pogonski deo pumpe – izlaz ispod poda Driving of pump – below the floor

- 101 Kućište ležaja-prednje
- 102 Kućište pumpe
- 103 Kućište ležaja-zadnje
- 104 Usisna korpa (usisno zvono)
- 105 Cevni nastavak
- 109 Nosač međuležaja
- 116 Izlazno kućište
- 120 Procepnii prsten
- 121 O prsten
- 122 O prsten
- 123 Gumeni ležaj
- 124 Gumeni ležaj
- 130 O prsten
- 210 Konusna čaura
- 211 Radno kolo
- 212 Vratilo pumpe
- 213 Međuvratilo
- 214 Vratilo pogonsko
- 215 Zaštitna čaura
- 216 Zaštitna čaura
- 217 Zaštitna čaura
- 218 Zaštitna čaura
- 219 Spojnica vratila
- 221 Ležaj
- 222 Nosač aksijalnog ležaja
- 311 Kućište ležaja
- 312 Poklopac ležaja
- 313 Izlazno kućište
- 314 Nosač motora
- 315 Cev nivoa ulja
- 316 Valjak
- 317 Nosač pumpe
- 318 Pletenica
- 319 Nosač pletenice
- 320 Elastična spojnica
- 321 Pritezač pletenice
- 322 Navrtka spojnice
- 325 Pokazivač nivoa ulja
- 340 Hladnjak za ulje
- 350 Ispust za ulje
- 360 Nalivanje ulja
- 400 Dovod čiste vode



- 101 Bearing housing- front
- 102 Casing
- 103 Bearing housing- back
- 104 Suction basket (suction bell)
- 105 Pipe
- 109 Intermediate bearing mounting
- 116 Discharge casing
- 120 Wear ring
- 121 O-ring
- 122 O-ring
- 123 Rubber bearing
- 124 Rubber bearing
- 130 O-ring
- 210 Cone sleeve
- 211 Impeller
- 212 Shaft
- 213 Intermediate shaft
- 214 Driving shaft
- 215 Protection sleeve
- 216 Protection sleeve
- 217 Protection sleeve
- 218 Protection sleeve
- 219 Shaft coupling
- 221 Bearing
- 222 Axial bearing mounting
- 311 Bearing housing
- 312 Bearing cover
- 313 Discharge casing
- 314 Motor mounting
- 315 Oil level pipe
- 316 Roller
- 317 Pump base
- 318 Packing
- 319 Packing housing
- 320 Elastic coupling
- 321 Stuffing box gland
- 322 Coupling nut
- 325 Oil level indicator
- 340 Oil cooler
- 350 Oil outlet
- 360 Oil inlet
- 400 Clean water lead



Hidraulički deo pumpe sa - usisnom korpom  
Hydraulic part of pump - with suction basket

Hidraulički deo pumpe sa - usisnim zvonom  
Hydraulic part of pump - with suction bell

PROIZVODNI PROGRAM - TABELE

SUPPLY RANGE - TABLES

Tip pumpe <i>Type of pump</i>	PUMPA / PUMP				El. motor	
	Q (l/s)				kW	min <sup>-1</sup> r.p.m.
	1.5	2.5	3.3	4.5		
H (m)						
81 - 1	6.4	5.6	4.5	2.7	1.5	2900
81 - 2	12.8	11.2	9	5.4	2.2	
81 - 3	19.2	16.8	13.5	8.1	3	
81 - 4	25.6	22.4	18	10.8	3	
81 - 5	32	28	22.5	13.5	3	
81 - 6	38.4	33.6	27	16.2	4	
81 - 7	44.8	39.2	31.5	18.9	4	
81 - 8	51.2	44.8	36	21.6	5.5	
81 - 9	57.2	50.4	40.5	24.3	5.5	
81 - 10	64	56	45	27	5.5	
81 - 11	70.4	61.6	49.5	29.7	5.5	
81 - 12	76.8	67.2	54	32.4	7.5	
81 - 13	83.2	72.8	58.5	35.1	7.5	
81 - 14	89.6	78.4	63	37.8	7.5	
81 - 15	96	84	67.5	40.5	7.5	
81 - 16	102.4	89.6	72	43.2	7.5	
81 - 17	108.8	95.2	76.5	45.9	11	
81 - 18	115.2	100.8	81	48.6	11	
81 - 19	121.6	106.4	85.5	51.3	15	
81 - 20	128	112	90	54	15	

Tip pumpe <i>Type of pump</i>	PUMPA / PUMP				El. motor	
	Q (l/s)				kW	min <sup>-1</sup> r.p.m.
	8.5	12.5	15.5	19.5		
H (m)						
102 - 1	12	10	8	5	3	2900
102 - 2	24	20	16	10	5.5	
102 - 3	36	30	24	15	11	
102 - 4	48	40	32	20	11	
102 - 5	60	50	40	25	15	
102 - 6	72	60	48	30	18.5	
102 - 7	84	70	56	35	22	
102 - 8	96	80	64	40	22	
102 - 9	108	90	72	45	30	
102 - 10	120	100	80	50	30	
102 - 11	132	110	88	55	30	
102 - 12	144	120	96	60	37	
102 - 13	156	130	104	65	37	
102 - 14	168	140	112	70	45	
102 - 15	180	150	120	75	45	
102 - 16	192	160	128	80	45	

Tip pumpe <i>Type of pump</i>	PUMPA / PUMP				El. motor	
	Q (l/s)				kW	min <sup>-1</sup> r.p.m.
	5	7.5	9.5	12		
H (m)						
100 - 1	11	10	9	7	2.2	2900
100 - 2	22	20	18	14	3	
100 - 3	33	30	27	21	5.5	
100 - 4	44	40	36	28	5.5	
100 - 5	55	50	45	35	7.5	
100 - 6	66	60	54	42	11	
100 - 7	77	70	63	49	11	
100 - 8	88	80	72	56	11	
100 - 9	99	90	81	63	11	
100 - 10	110	100	90	70	15	
100 - 11	121	110	99	77	15	
100 - 12	132	120	108	84	15	
100 - 13	143	130	117	91	18.5	
100 - 14	154	140	126	98	18.5	
100 - 15	165	150	135	105	18.5	
100 - 16	176	160	144	112	22	
100 - 17	187	170	153	119	22	

Tip pumpe <i>Type of pump</i>	PUMPA / PUMP				El. motor	
	Q (l/s)				kW	min <sup>-1</sup> r.p.m.
	18	21.5	25.5	28		
H (m)						
125 - 1	6.8	6	5	4	3	1450
125 - 2	13.6	12	10	8	5.5	
125 - 3	20.5	18	15	12	7.5	
125 - 4	27.2	24	20	16	11	
125 - 5	34	30	25	20	11	
125 - 6	40.8	36	30	24	15	
125 - 7	47.6	42	35	28	18.5	
125 - 8	54.4	48	40	32	18.5	
125 - 9	61.2	54	45	36	22	
125 - 10	68	60	50	40	22	
125 - 11	74.8	66	55	44	30	
125 - 12	81.6	72	60	48	30	
125 - 13	88.4	78	65	52	30	
125 - 14	95.2	84	70	56	30	
125 - 15	102	90	75	60	37	
125 - 16	108.8	96	80	64	37	
125 - 17	115.6	102	85	68	45	
125 - 18	122.4	108	90	72	45	
125 - 19	129.2	114	95	76	45	
125 - 20	136	120	100	80	45	
125 - 21	142.8	126	105	84	45	
125 - 22	149.6	132	110	92	55	
125 - 23	156.4	138	115	94	55	
125 - 24	163.2	144	120	96	55	
125 - 25	170	150	125	100	55	

Tip pompe Type of pump	PUMPA / PUMP				El. motor	
	Q (l/s)				kW	min <sup>-1</sup> r.p.m.
	20	25	30	38		
H (m)						
126 - 1	9.5	8.8	7.9	5.4	4	1450
126 - 2	19	17.6	15.8	10.8	7.5	
126 - 3	28.5	26.4	23.7	16.2	11	
126 - 4	38	35.2	31.6	21.6	15	
126 - 5	47.5	44	39.5	27	18.5	
126 - 6	57	52.8	47.4	32.4	22	
126 - 7	66.5	61.6	55.3	37.8	30	
126 - 8	76	70.4	63.2	43.2	30	
126 - 9	85.5	79.2	71.1	48.6	37	
126 - 10	95	88	79	54	37	
126 - 11	104.5	96.8	86.9	59.4	45	
126 - 12	114	105.6	94.8	64.8	45	
126 - 13	123.5	114.4	102.7	70.2	55	
126 - 14	133	123.2	110.6	75.6	55	
126 - 15	142.5	132	118.5	81	55	

Tip pompe Type of pump	PUMPA / PUMP				El. motor	
	Q (l/s)				kW	min <sup>-1</sup> r.p.m.
	45	60	70	85		
H (m)						
200 - 1	13	12	11	8.5	15	1450
200 - 2	26	24	22	17	30	
200 - 3	39	36	33	25.5	37	
200 - 4	52	48	44	34	55	
200 - 5	65	60	55	42.5	55	
200 - 6	78	72	66	51	75	
200 - 7	91	84	77	59.5	90	
200 - 8	104	96	88	68	110	
200 - 9	117	108	99	76.5	110	
200 - 10	130	120	110	85	132	
200 - 11	143	132	121	93.5	132	
200 - 12	156	144	130	100	160	

Tip pompe Type of pump	PUMPA / PUMP				El. motor	
	Q (l/s)				kW	min <sup>-1</sup> r.p.m.
	26	30	35	42		
H (m)						
150 - 1	7.6	7	6	4	4	1450
150 - 2	15	14	12	8	7.5	
150 - 3	22.5	21	18	12	11	
150 - 4	30	28	24	16	15	
150 - 5	37.5	35	30	20	18.5	
150 - 6	45	42	36	24	22	
150 - 7	52.5	49	42	28	30	
150 - 8	60	56	48	32	30	
150 - 9	67.5	63	54	36	30	
150 - 10	75	70	60	40	37	
150 - 11	82.5	77	66	44	37	
150 - 12	90	84	72	48	37	
150 - 13	97.5	91	78	52	45	
150 - 14	105	98	84	56	45	
150 - 15	112.5	105	90	60	55	
150 - 16	120	112	96	64	55	
150 - 17	127.5	119	102	68	55	
150 - 18	135	126	108	72	55	
150 - 19	142.5	133	114	76	75	
150 - 20	150	140	120	80	75	
150 - 21	157.5	147	126	84	75	
150 - 22	165	154	132	88	75	
150 - 23	172.5	161	138	92	75	

Tip pompe Type of pump	PUMPA / PUMP				El. motor	
	Q (l/s)				kW	min <sup>-1</sup> r.p.m.
	85	105	132	165		
H (m)						
250 - 1	19	17	14	10	30	1450
250 - 2	38	34	28	20	55	
250 - 3	57	51	42	30	90	
250 - 4	56	68	56	40	110	
250 - 5	95	85	70	50	132	
250 - 6	114	102	84	60	160	
250 - 7	133	119	98	70	200	
250 - 8	152	136	112	80	250	

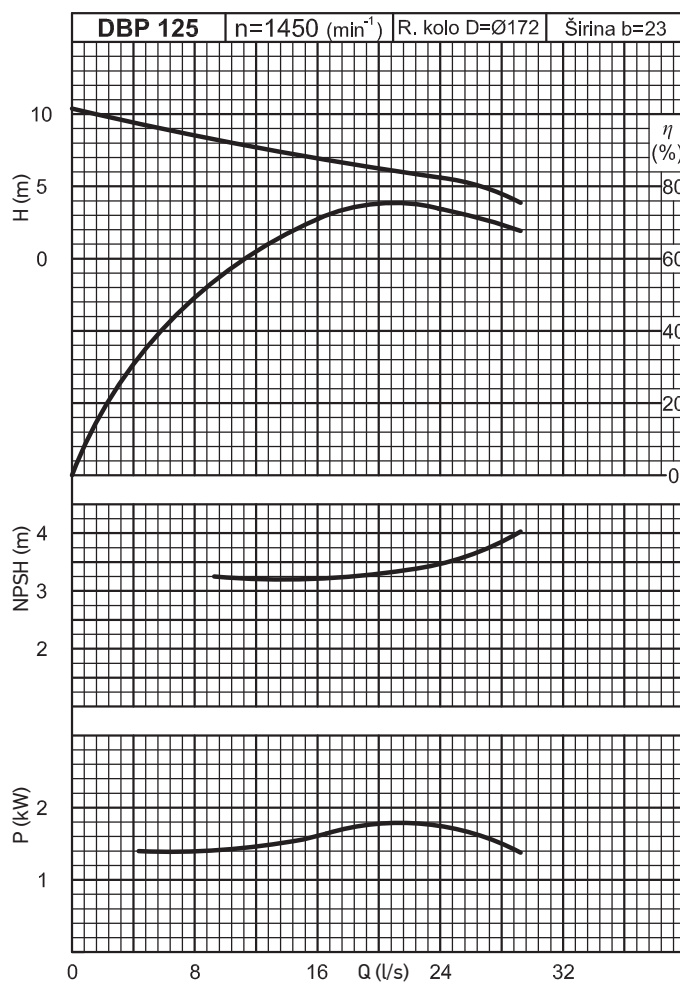
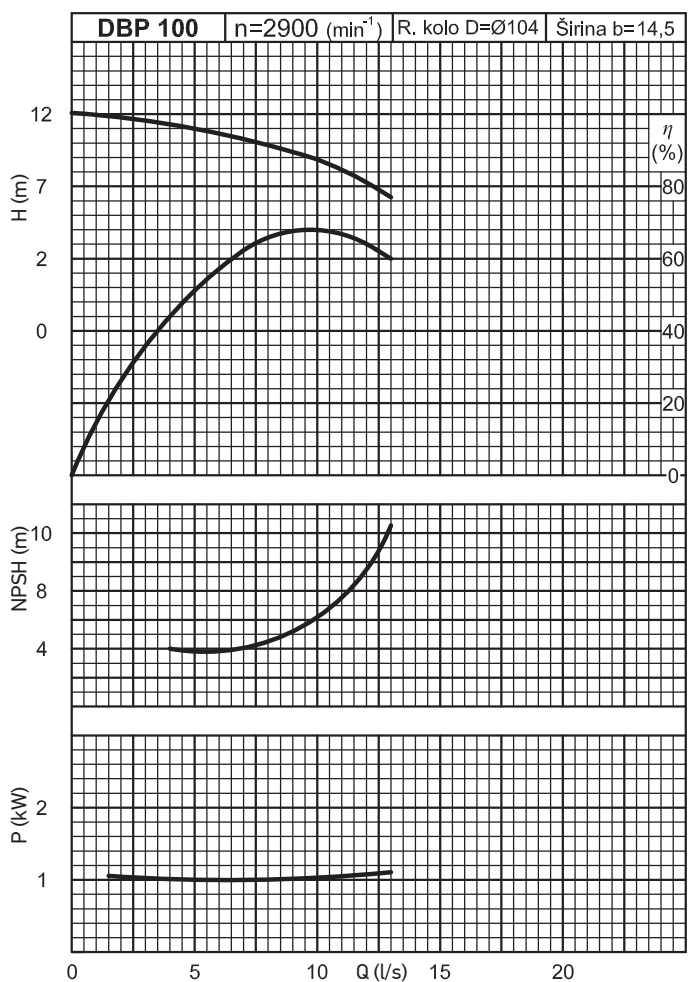
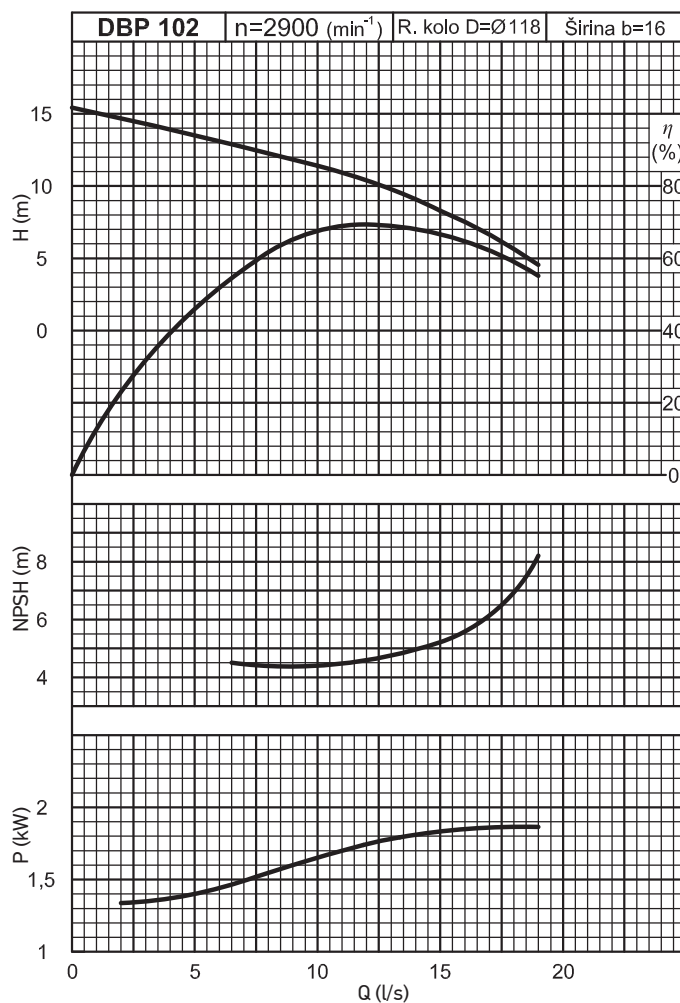
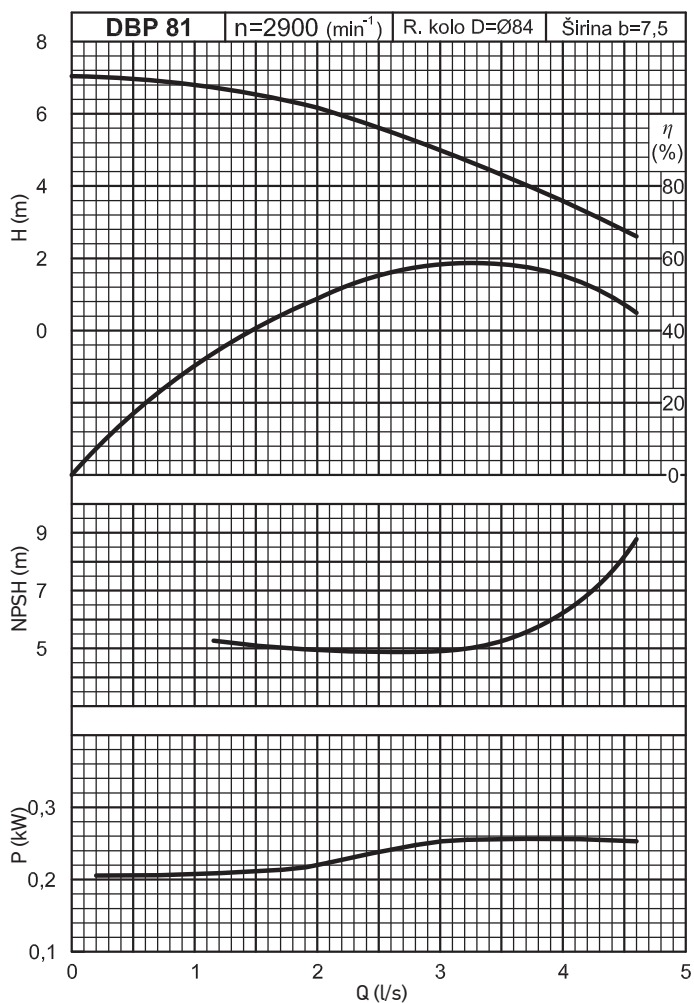
Tip pompe Type of pump	PUMPA / PUMP				El. motor	
	Q (l/s)				kW	min <sup>-1</sup> r.p.m.
	180	220	280	340		
H (m)						
300 - 1	38	36	32	26	132	1450
300 - 2	76	72	64	52	250	
300 - 3	114	108	96	78	355	
300 - 4	152	144	128	104	500	

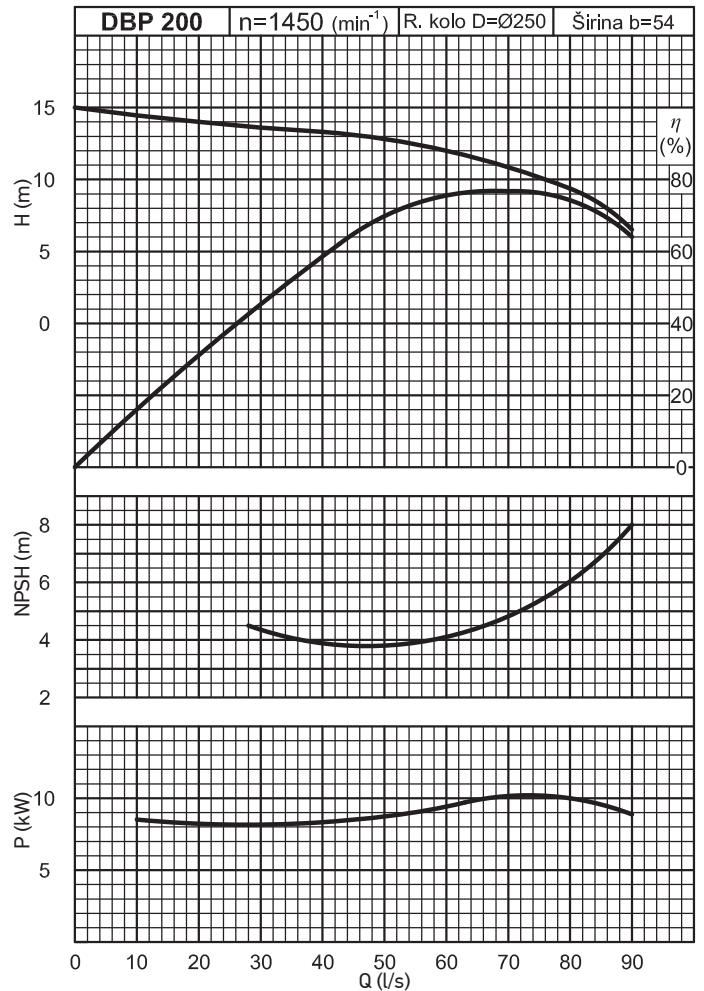
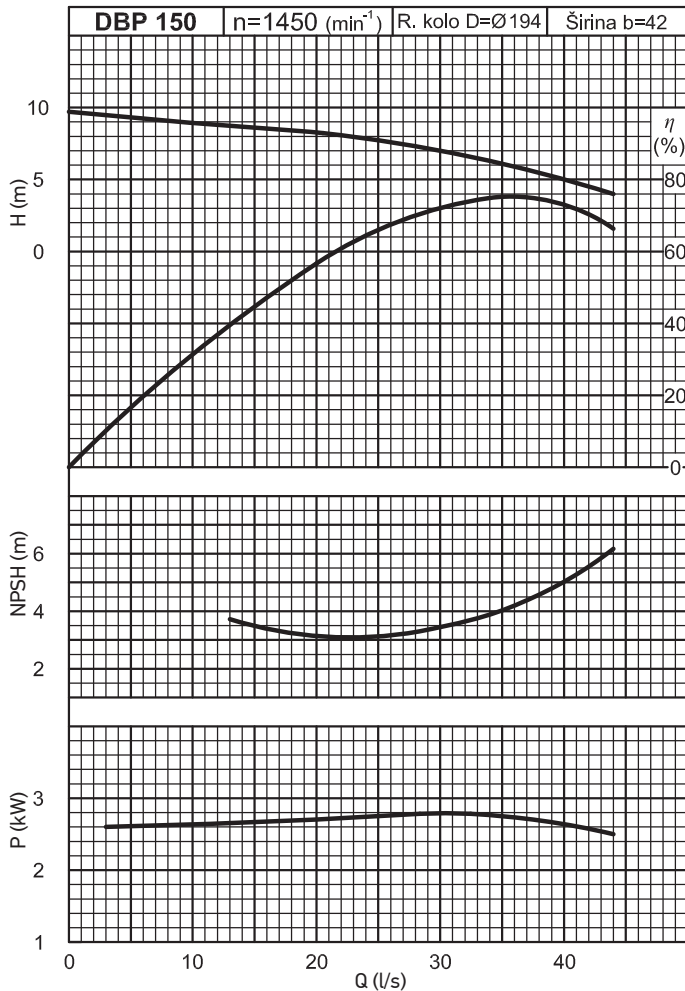
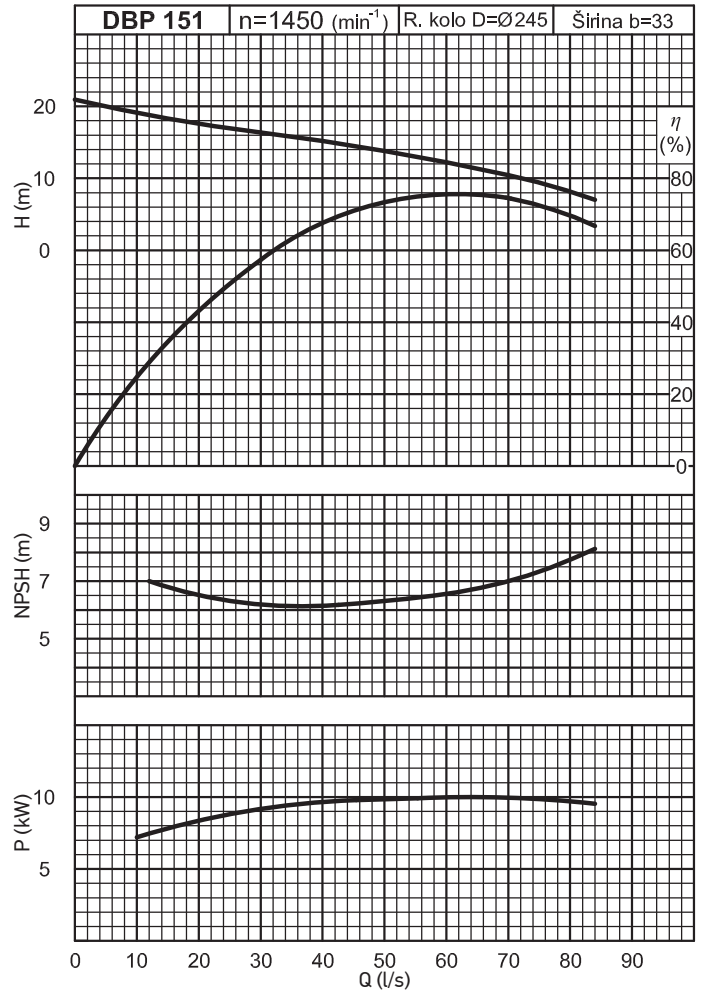
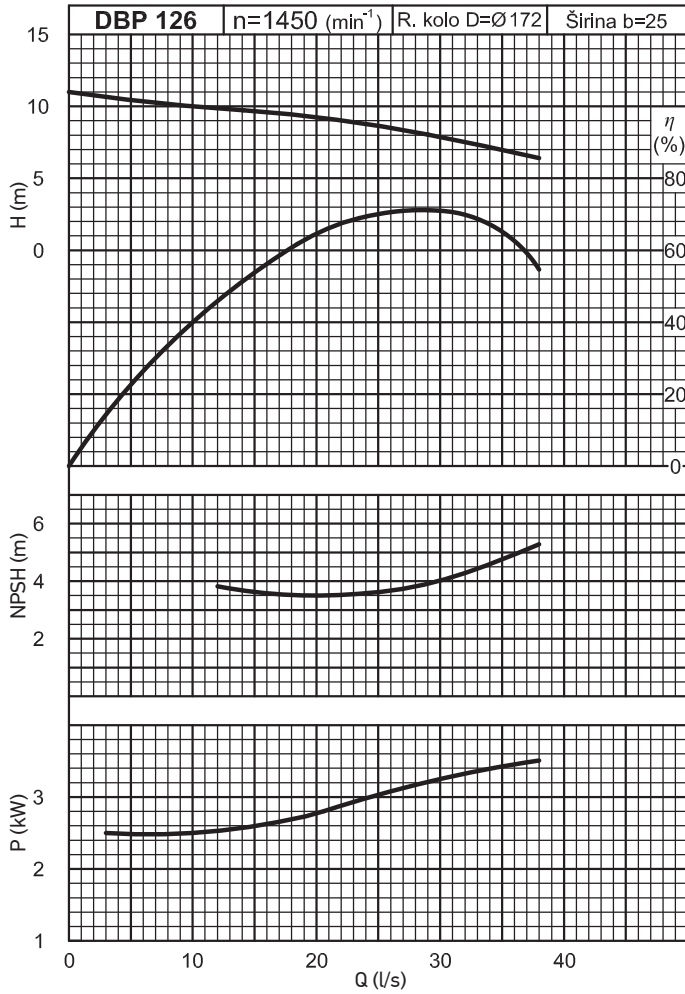
Tip pompe Type of pump	PUMPA / PUMP				El. motor	
	Q (l/s)				kW	min <sup>-1</sup> r.p.m.
	30	40	50	60		
H (m)						
151 - 1	15.7	14.2	12.5	10	11	1450
151 - 2	31.4	28.4	25	20	22	
151 - 3	47.1	42.6	37.5	30	30	
151 - 4	62.8	56.8	50	40	45	
151 - 5	78.5	71	62.5	50	55	
151 - 6	94.2	85.2	75	60	75	
151 - 7	109.9	99.4	87.5	70	75	
151 - 8	125.6	113.6	100	80	90	
151 - 9	141.3	127.8	112.5	90	90	
151 - 10	157	142	125	100	110	
151 - 11	172.7	156.2	137.5	110	110	

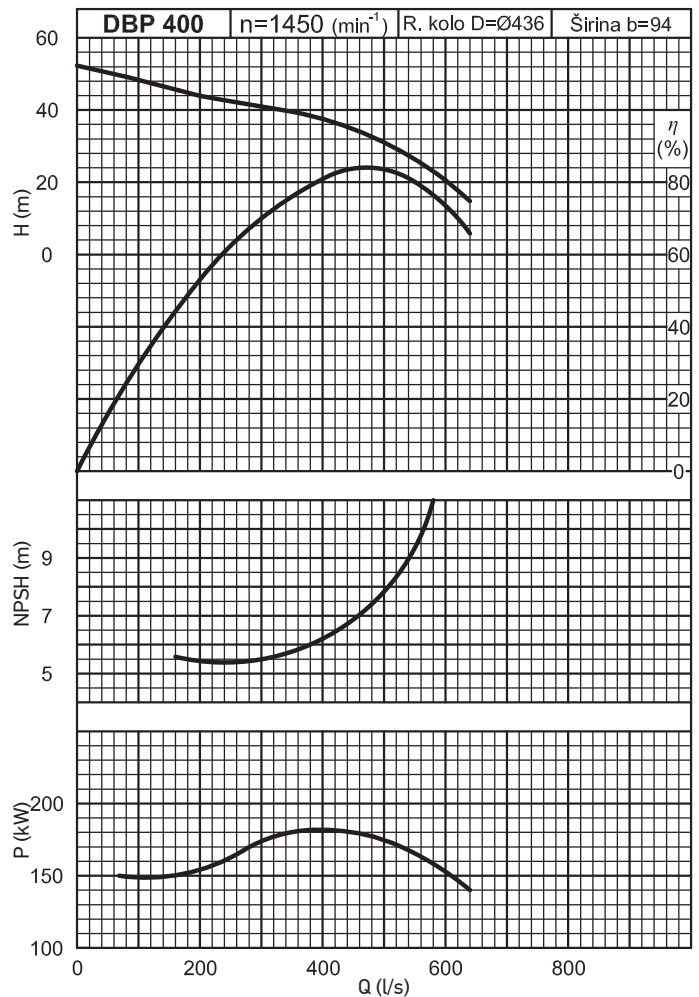
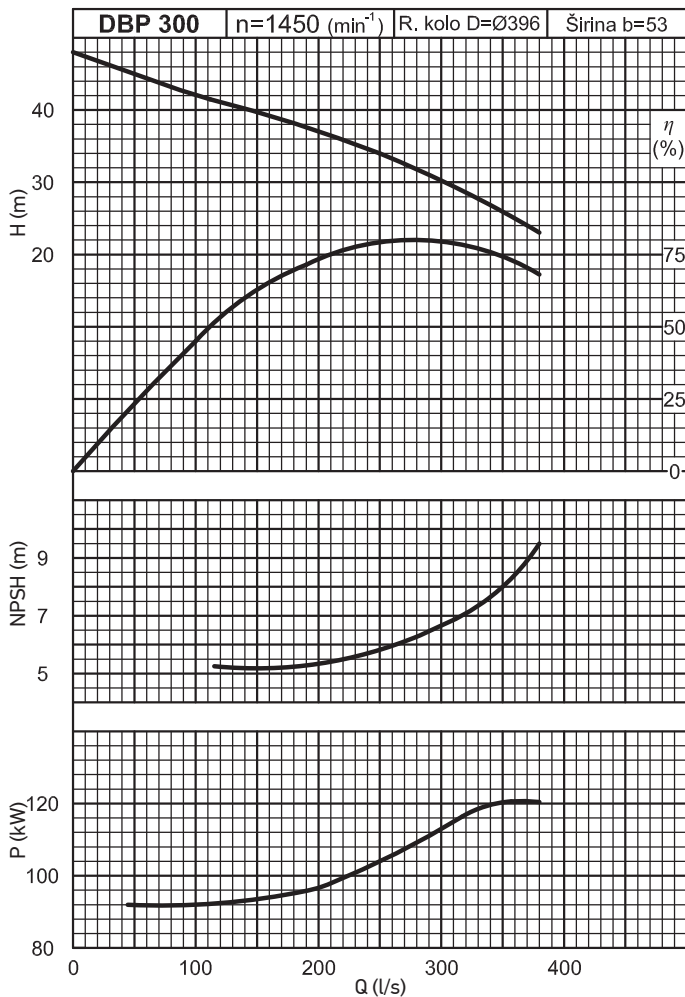
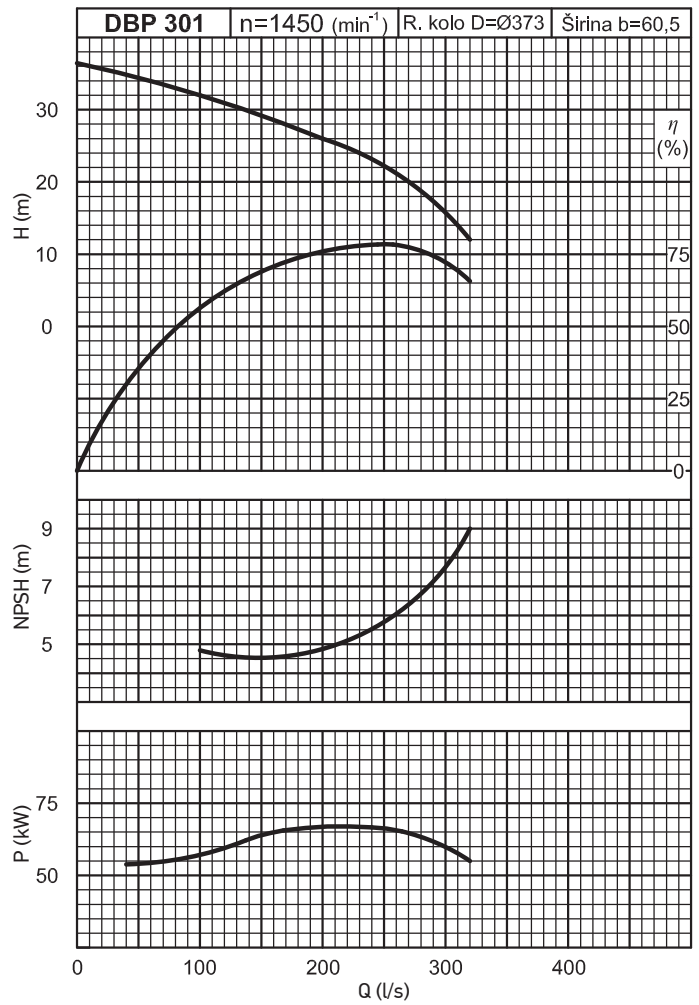
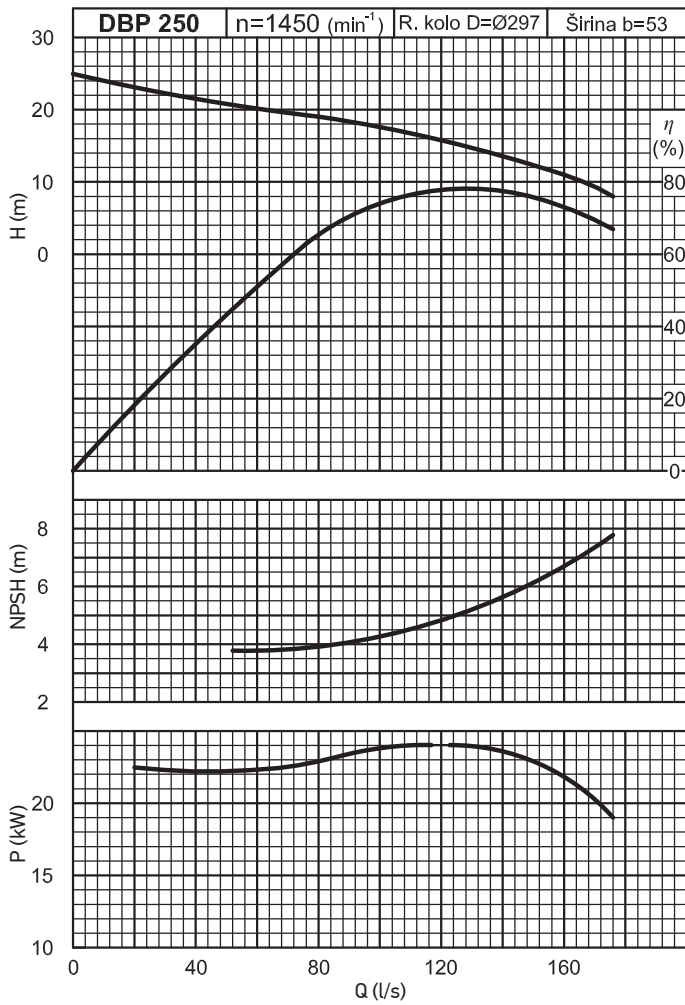
Tip pompe Type of pump	PUMPA / PUMP				El. motor	
	Q (l/s)				kW	min <sup>-1</sup> r.p.m.
	170	210	240	300		
H (m)						
301 - 1	28	25	22	15	75	1450
301 - 2	56	50	44	30	160	

Tip pompe Type of pump	PUMPA / PUMP				El. motor	
	Q (l/s)				kW	min <sup>-1</sup> r.p.m.
	300	400	500	600		
H (m)						
400 - 1	41	38	30	18	200	1450
400 - 2	82	76	60	36	355	
400 - 3	123	114	90	54	560	
400 - 4	164	152	120	72	800	









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