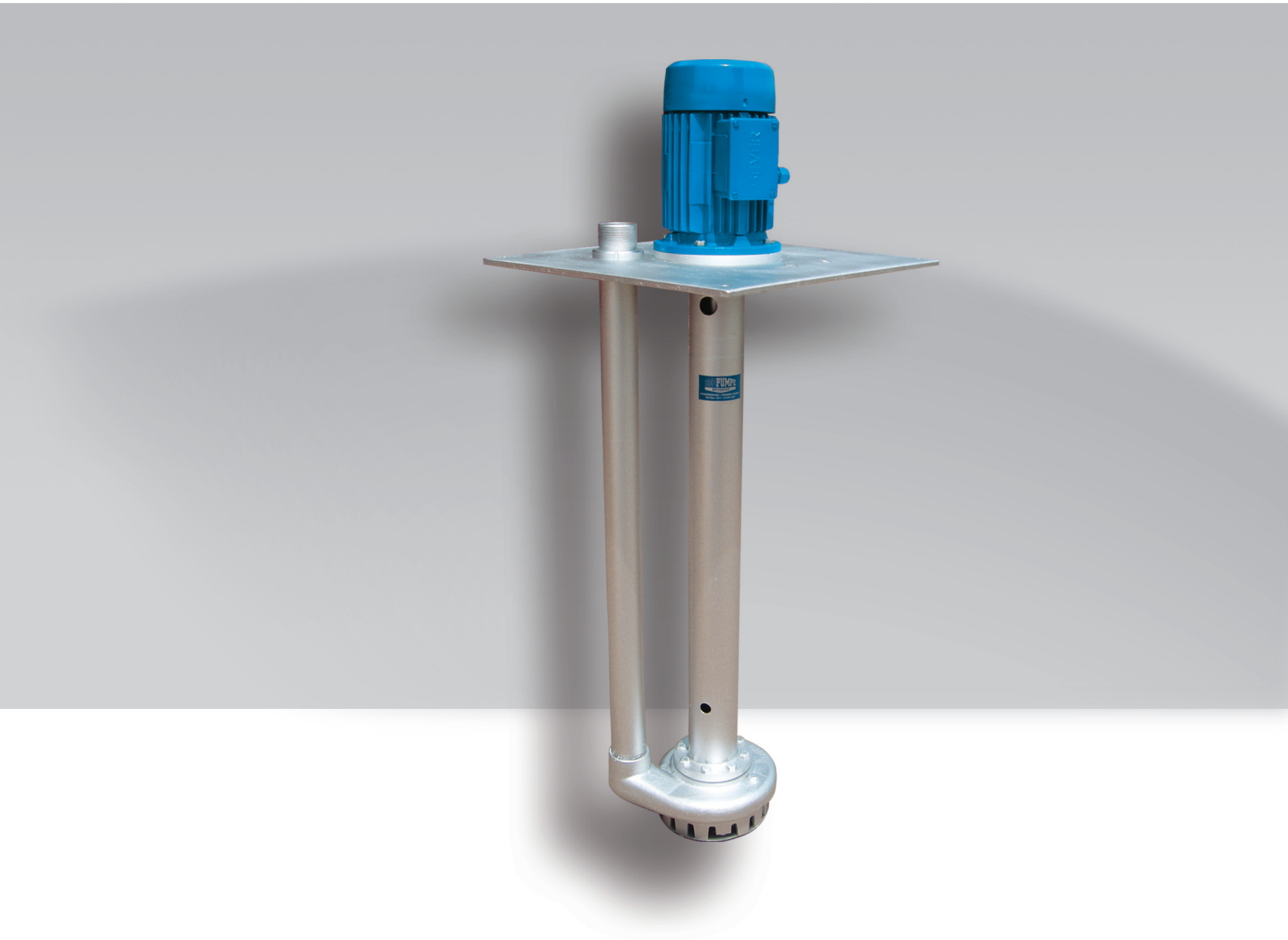
DP

DRENAŽNE VERTIKALNE PUMPE

VERTICAL DRAIN PUMPS



BEOPUMPE
BEOGRAD

TEHNIČKE KARAKTERISTIKE

Hidraulične karakteristike: Q=5-38 m^3/h
Visina dizanja: max 32m
Broj obrtaja: max 2900 min^{-1}; min 1450 min^{-1}

PRIMENA

Drenažne pumpe se koriste za automatsko odvodnjavanje prostora ugroženih otpadnim, kišnim ili podzemnim vodama. Pogodne su za crpljenje prljave vode sa prisutnim sadržajem čvrstih delova, a u kiselootpornom materijalnom izvođenju i za hemijsko agresivne tečnosti. Temperature medija do 50°C.

OPIS IZVOĐENJA

Drenažna vertikalna pumpa je utopljena hidrauličkim delom u tečnost. Pumpa i elektromotor spojeni su pogonskom cevi u kompaktnu celinu. Potisni priključak je izveden iznad temeljne ploče pumpe. Radno kolo je otvoreno i kanalnog je tipa. Elektromotor je u vertikalnom prirubnom izvođenju, napona 380V, 50Hz. Na zahtev kupca, pumpni agregat može biti opremljen elektro opremom za automatski rad u granicama podešenih nivoa crpljenja tečnosti.

MATERIJALI IZRADE

U tabeli su navedeni materijali izrade važnijih delova pumpe odgovarajućeg materijalnog izvođenja.

FEATURES

Hydraulic features: Q=5-38 m^3/h
Total head: max 32m
Speed: max 2900 r.p.m.; min 1450 r.p.m.

USES

Drainage pumps are used for automatic draining areas endangered by sewage, rain or groundwater. They are suitable for pumping dirty water with solids content present, in an acid-proof material performance and for aggressive chemical liquids. Medium temperature up to 50 ° C.

PERFORMANCE

Vertical drainage pump has the hydraulic part submerged in fluid. The pump and electric motor are connected with the pipe in compact unit. Discharge connection is based above the base plate of the pump. Impeller is open and channel type. Electric motor is in vertical flange execution, voltage 380V, 50Hz. On customer request , pump set can be equipped with electronic equipment for automatic operation within the preset level of pumping liquid.

MATERIALS

The table below provides the materials of construction of major parts of the pump.

Pozicija	Naziv dela	Vrsta materijalnog izvođenja	
		N	K
111	Spiralno kućište	SL250	ČL 4574
112	Poklopac kućišta	SL250	ČL 4574
124	Gumeni ležaj	perbunan,guma	grafit, bronza
125	Lavirintni prsten	SL250	ČL 4574
211	Radno kolo 1.3	SL250	ČL 4574
211	Radno kolo 2	SL250	ČL 4574
212	Vratilo	Č. 4172	Č. 4574
215	Čivija	Č. 4171	Č. 4574
315	Ploča	SL250	ČL 4574

N - standardno izvođenje
K - kisleootporno izvođenje

Item	Part name	Materials	
		N	K
111	Volute casing	GJL250	AISI316
112	Casing cover	GJL250	AISI316
124	Rubber bearing	rubber	graphite, bronze
125	Lavirint ring	GJL250	AISI316
211	Impeller 1.3	GJL250	AISI316
211	Impeller 2	GJL250	AISI316
212	Shaft	AISI420	AISI316
215	Nut	AISI316	AISI316
315	Base plate	GJL250	AISI316

N - *standard performance*
K - *acid proof performance*

PRIMER OZNAČAVANJA

DP2 1500 A N

Tip pumpe

Oznaka dužine pumpe (mm)

Oznaka redukcije radnog kola
A - redukcija radnog kola
B - redukcija radnog kola

Oznaka materijalnog izvođenja
N - standardno izvođenje
K - kiselootporno izvođenje

METHOD OF MARKING

DP2 1500 A N

Type of pump

Lenght of pump (mm)

Reduction of impeller
A - reduction of impeller
B - reduction of impeller

Material
N - standard performance
K - acid-proof performance

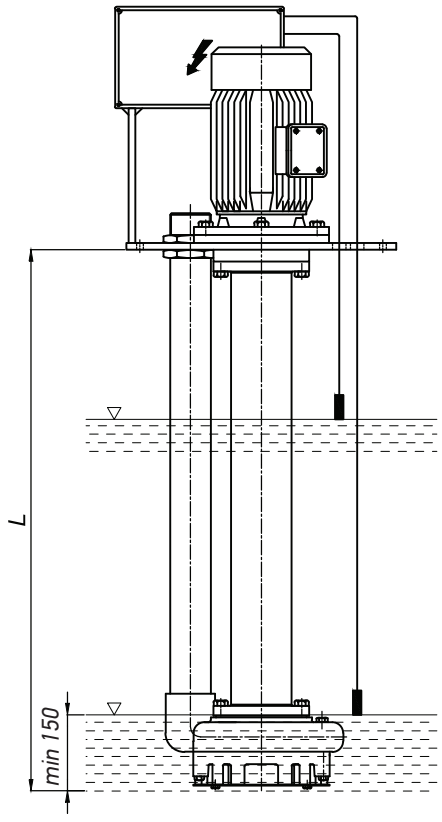
TABELA KARAKTERISTIKA

TABLE OF FEATURES

Tip pumpe *Type of pump*	Prečnik kola *Diameter of impeller* D_2 (mm)	Broj obrtaja *r.p.m.* (min^{-1})	Snaga motora *Power* (kw)	Protok | *Capacity* (m^3/h) (l/s)											
				5	8	11	14	17	20	23	26	29	32	35	38
				1,38	2,22	1,38	2,22	4,72	5,55	6,38	7,22	4,72	5,55	6,38	7,22
				Napor | *Head* (m)											
DP-1	132	1450	0,75	5,0	4,40	3,65	2,70								
	140			5,75	5,20	4,45	3,60	2,30							
	148			6,60	6,00	7,20	4,30	3,20							
	156			7,40	6,70	5,95	5,05	4,00							
DP-2	136	1450	1,5	6,60	6,20	5,60	5,20	4,50	3,60	2,60					
	144			7,50	7,00	6,50	6,10	5,40	4,55	3,70					
	152			8,40	7,90	7,40	6,90	6,25	5,45	4,70					
	160			9,25	8,75	8,20	7,75	7,00	6,25	5,50					
DP-3	132	2900	3	22,0	20,8	19,6	18,2	17,5	16,0	13,9	12,2	10,2	8,1		
	140			25,5	24,0	23,0	21,9	20,2	19,5	16,5	15,7	13,6	10,5		
	148			28,2	27,1	26,0	24,8	23,5	22,0	19,8	18,3	16,5	14,5	10,1	9,50
	156			31,8	30,2	29,5	28,0	26,5	25,5	22,5	21,2	19,5	17,0	14,0	12,5

MERNA SKICA PUMPE

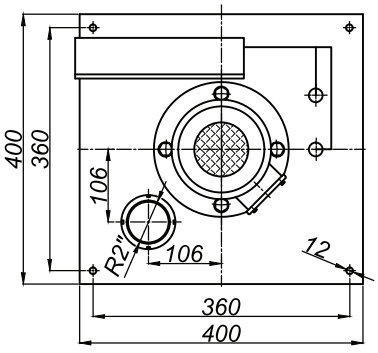
DRAWING MEASURE OF PUMP



Pumpa *Type of pump*	L (mm)							
DP1	1000	1500	1750	2000	2250	2500	2750	3000
DP2	1000	1500	1750	2000	2250	2500	2750	3000
DP3	1000	1500	1750	2000				

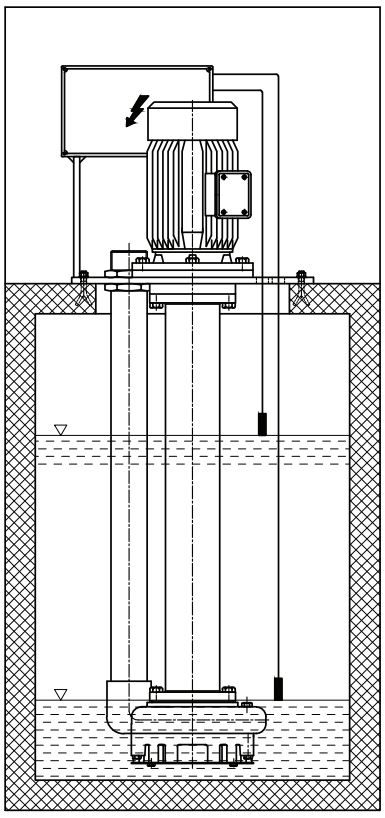
Kotu L određuje projektant prema projektu

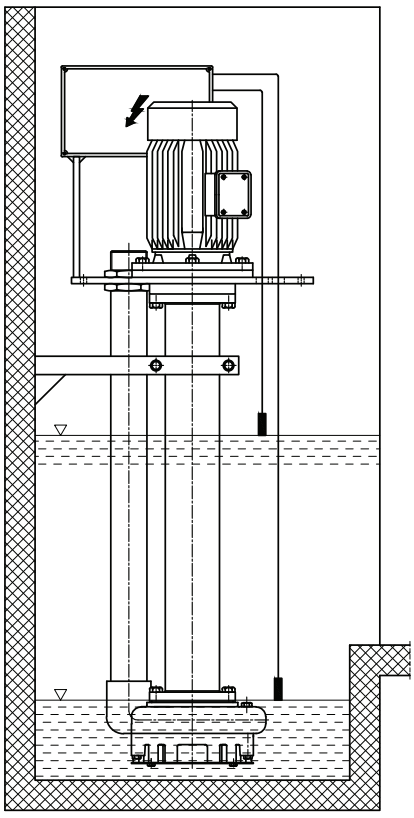
Dimension L is determinated according to the project



NAČIN UGRADNJE

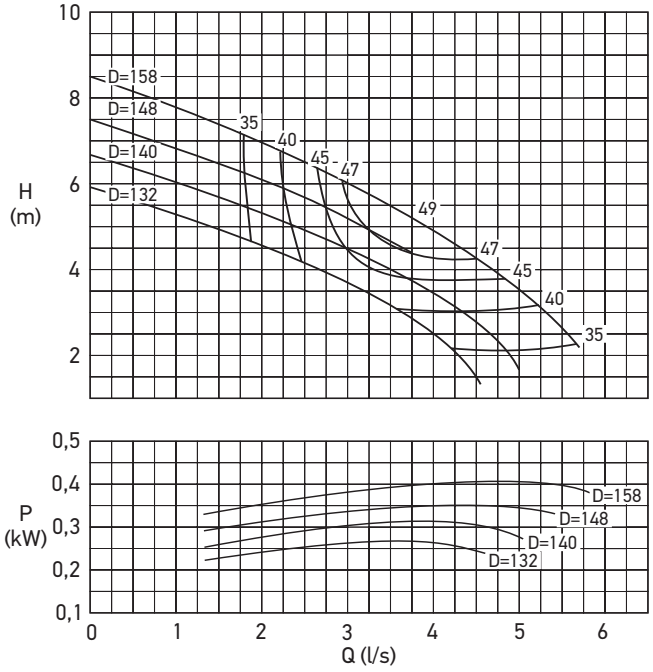
INSTALLATION OF PUMP





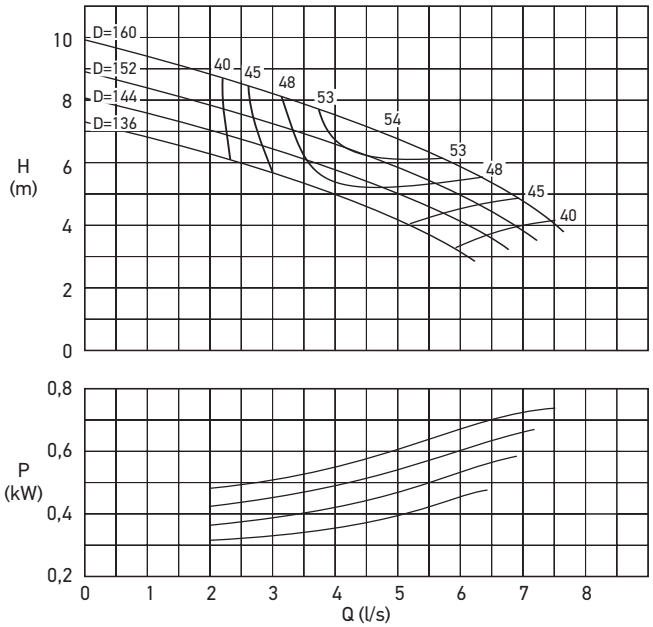
DP 1

1450 min^{-1} (r.p.m.)



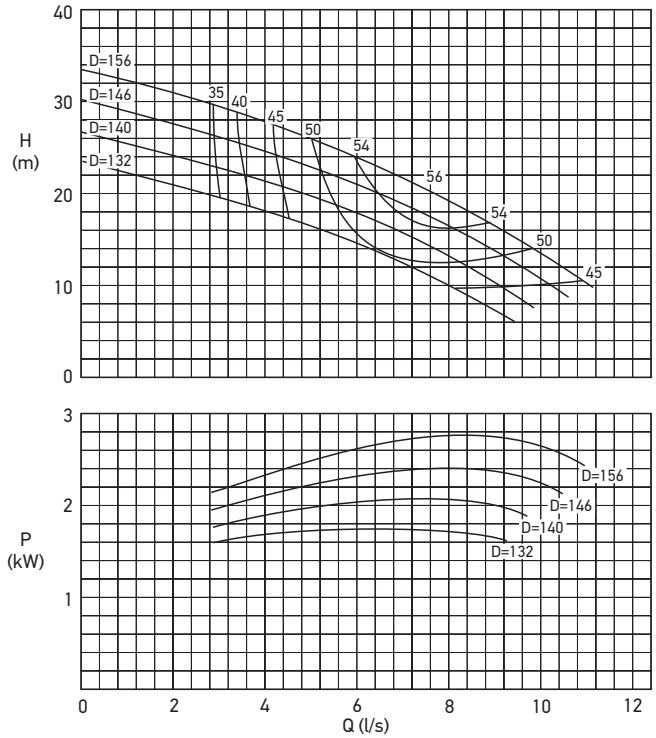
DP 2

1450 min^{-1} (r.p.m.)



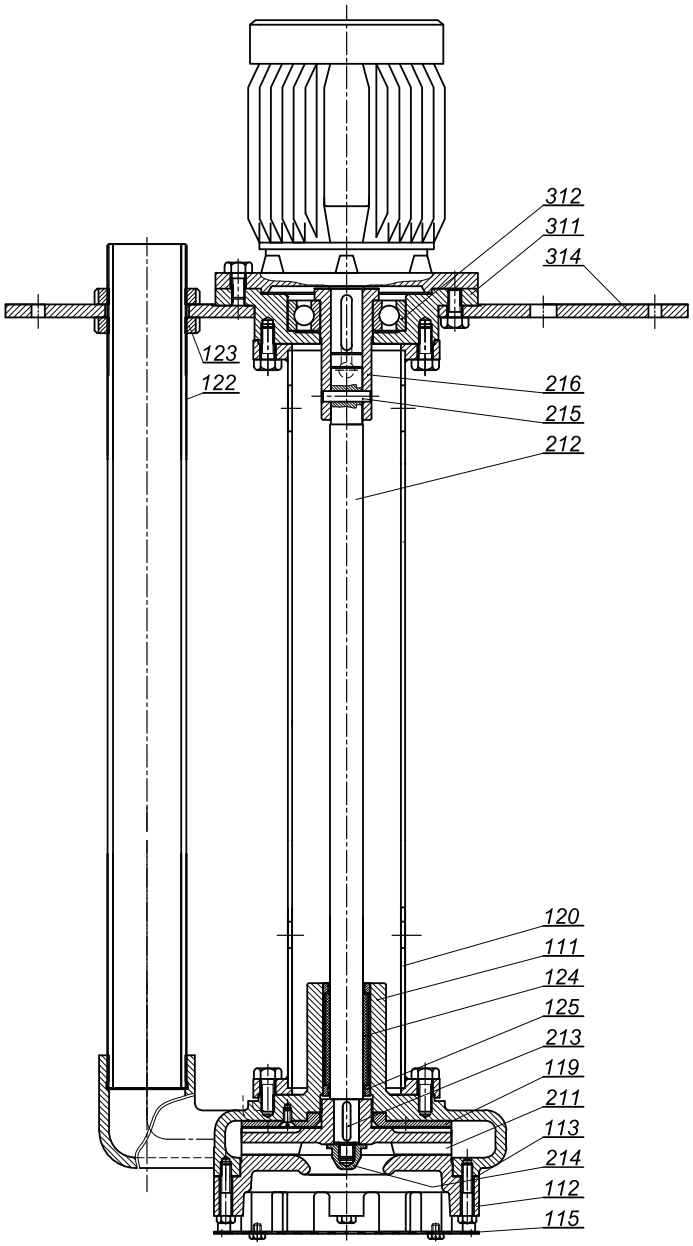
DP 3

2900 min^{-1} (r.p.m.)

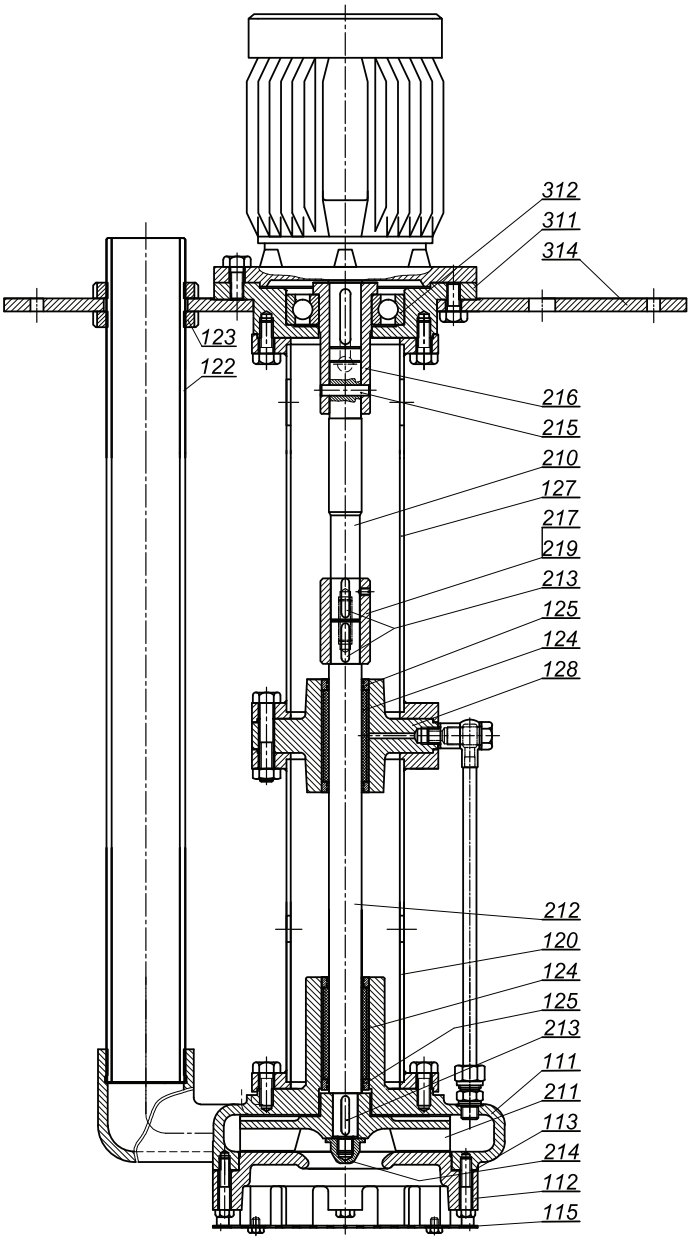


STANDARDNO I KISELOOTPORNO IZVOĐENJE
STANDARD AND ACID-PROOF PERFORMACE

DP1, DP3



DP2



Pozicija	Naziv
111	Spiralno kućište
112	Poklopac kućišta
113	Zaptivka kućišta
115	Perforirani lim
119	Zadnja ploča
120	Cevni nastavak
122	Potisna cev
123	Navrtka
124	Gumeni ležaj
125	Lavirintni prsten
127	Cevni nastavak
128	Nosač međuležaja

Pozicija	Naziv
210	Pogonsko vratilo
211	Radno kolo
212	Vratilo
213	Klin
214	Navrtka radnog kola
215	Čivija
216	Spojnica
217	Spojnica vratila
219	Vijak spojnice
311	Kućište ležaja
312	Ležaj
314	Ploča

Item	*Part Name*
111	*Volute casing*
112	*Casing cover*
113	*Sealing bracket*
115	*Perforated sheet*
119	*Back plate*
120	*Pipe extension*
122	*Delivery pipe*
123	*Nut*
124	*Rubber bearing*
125	*Lavirint ring*
127	*Pipe extention*
128	*Intermediate bearing bracket*

Item	*Part Name*
210	*Driving Shaft*
211	*Impeller*
212	*Shaft*
213	*Insert spring*
214	*Impeller nut*
215	*Pin*
216	*Coupling*
217	*Coupling shaft*
219	*Bolt*
311	*Bearing casing*
312	*Bearing*
314	*Base plate*

BEOPUMPE d.o.o.
Simeona Končarevića 20 | 11080 Beograd | Srbija
T: +381 (0)11 2199196 | F: +381 (0)11 3077183
E: office@beopumpe.rs | W: www.beopumpe.rs