

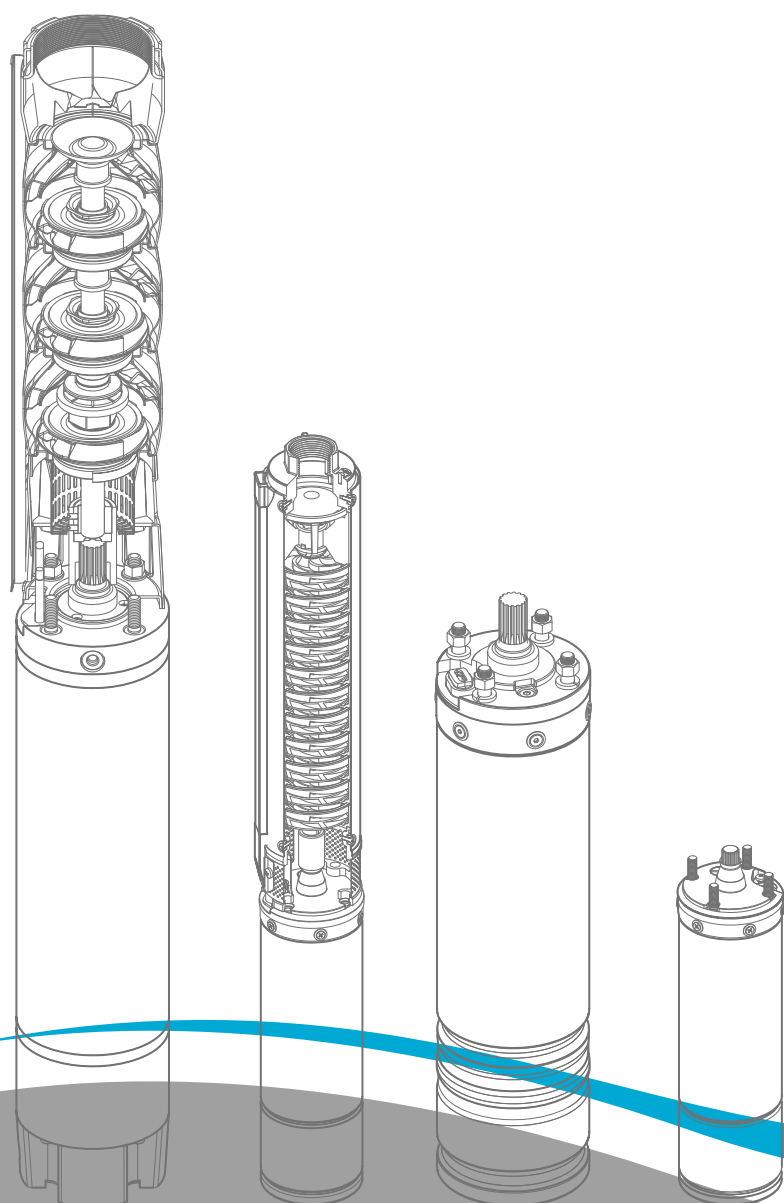
# Elettropompe Sommerse

*Submersed Electropump*

**BP SERIES 6" SUBMERSIBLE PUMPS**

## Technical Catalogue

Catalogo Tecnico



**IRCEM**  
WATER PUMPS

## BP SERIES 6" SUBMERSIBLE PUMPS



- Made completely of corrosion-resistant AISI 304 stainless steel, BP pumps are ideal for a wide variety of applications with high efficiency and reliability.

### APPLICATIONS

- Water supply from deep well
- Agriculture irrigation
- Pressure boosting
- Fire-fighting
- Industrial application

### SPECIFICATIONS

- Delivery: up to 85 m<sup>3</sup>/h at 2850 rpm.
- Head: up to 500 m at 2850 rpm.
- Maximum overall diameter of pump: 143 mm (one cable guard included).
- Maximum permissible quantity of suspended sand: 150 g/m<sup>3</sup>.
- Standard delivery port: Rp 3".

### MOTOR

- Motor power: from 3,0 to 30 kW, 380 V, 50 Hz.

### CONSTRUCTION CHARACTERISTICS

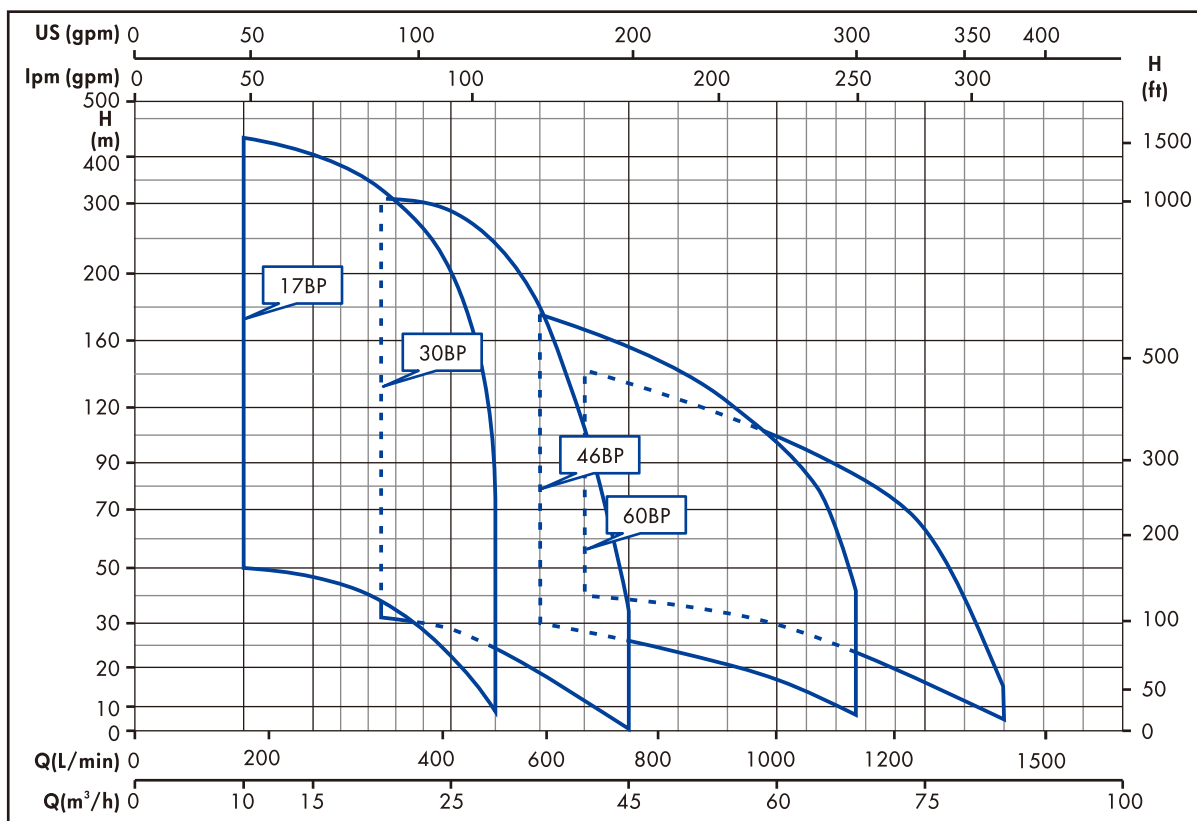
- Sturdy and lightweight, easy to maintain and resistant to corrosion in non-aggressive environments.
- High efficient hydraulic design for cost saving and best performance.
- Stainless steel built-in non-return valve.
- Stainless steel impellers and diffusers.
- Stainless steel delivery port and suction support.
- Stainless steel shaft and replaceable coupling.
- PTFE floating wear ring, octagonal bearings and sand flush channel ensure maximum resistance to wear and long-lasting performance and reliability.
- Coupling and flange mounting dimensions meet NEMA standards.

### OPTIONAL FEATURES

- Different voltages and frequencies.
- Delivery port: Rp4".

## BP SERIES

### HYDRAULIC PERFORMANCE RANGE AT 50 Hz



**IDENTIFICATION CODE**

17	BP	6	75
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————— MOTOR POWER IN kW x 10  
 ————— 4=4" MOTOR  
 ————— 6=6" MOTOR  
 ————— BP SERIES 6" SUBMERSIBLE PUMPS  
 ————— FLOW RATE IN m<sup>3</sup>/h

**EXAMPLE OF PUMP TYPE**

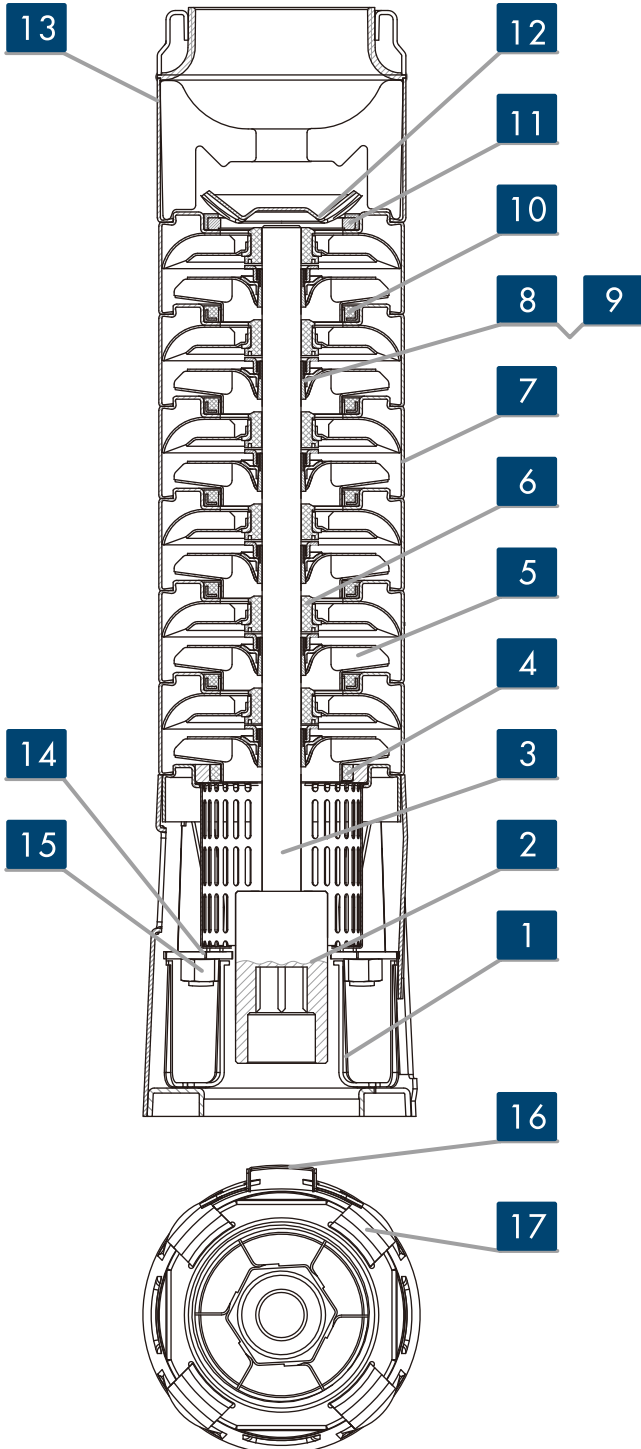
17BP675

BP series submersible pump, flow rate 17 m<sup>3</sup>/h, coupled to a 6" submersible motor 7,5 kW (10 Hp).



## 17BP SERIES

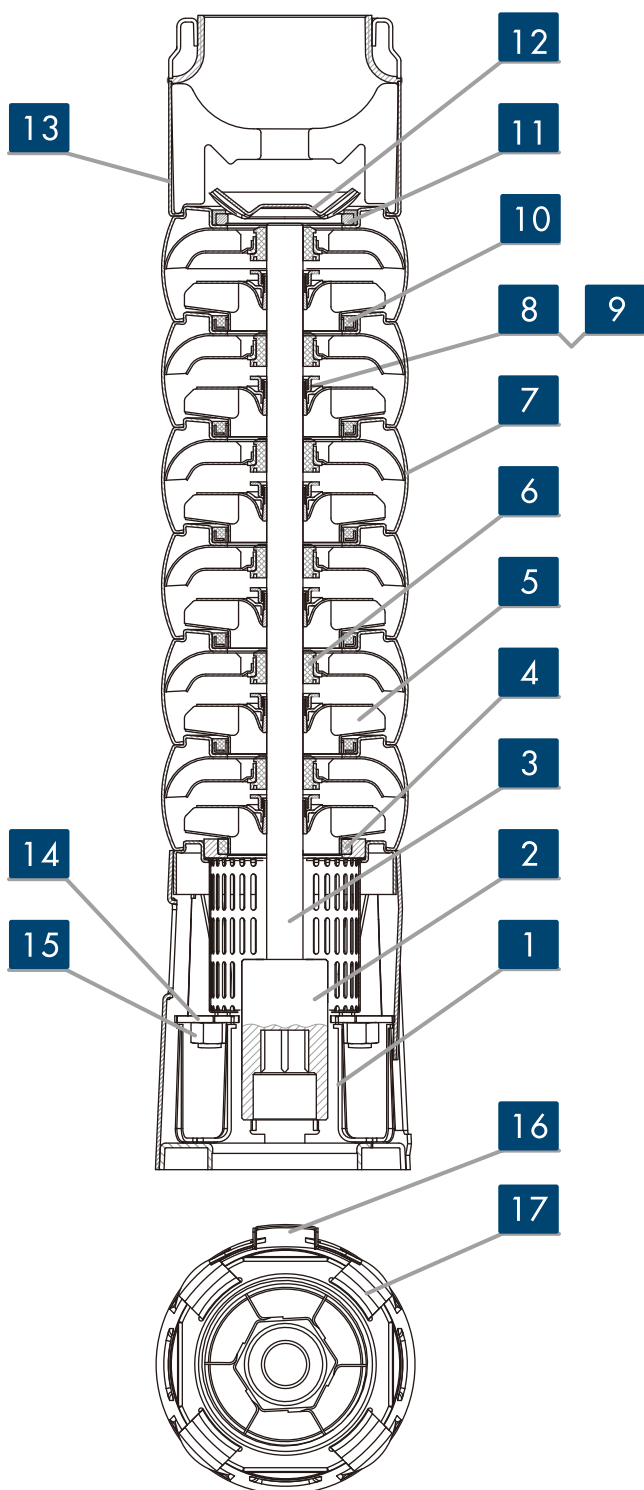
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Stainless steel	AISI 304
2	Coupling	Stainless steel	AISI 304
3	Shaft	Stainless steel	AISI 304
4	First neck ring	Carbon/graphite In PTFE	-----
5	Impeller	Stainless steel	AISI 304
6	Bush bearing	NBR	-----
7	Diffuser	Stainless steel	AISI 304
8	Split cone	Stainless steel	AISI 304
9	Split cone nut	Stainless steel	AISI 304
10	Neck ring	NBR	-----
11	Valve support	NBR	-----
12	Non-return valve	Stainless steel	AISI 304
13	Delivery port	Stainless steel	AISI 304
14	Washer	Stainless steel	AISI 304
15	Nut for strap	Stainless steel	AISI 304
16	Cable guard	Stainless steel	AISI 304
17	Strap	Stainless steel	AISI 304

### 30BP SERIES

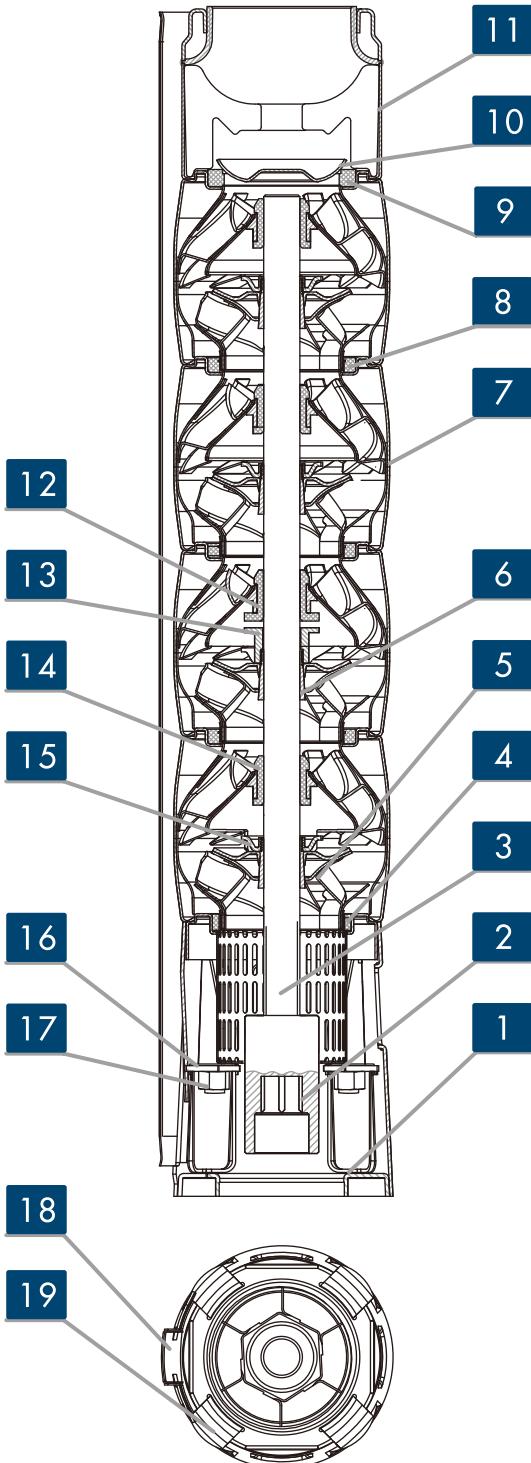
#### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Stainless steel	AISI 304
2	Coupling	Stainless steel	AISI 304
3	Shaft	Stainless steel	AISI 304
4	First neck ring	Carbon/graphite In PTFE	-----
5	Impeller	Stainless steel	AISI 304
6	Bush bearing	NBR	-----
7	Diffuser	Stainless steel	AISI 304
8	Split cone	Stainless steel	AISI 304
9	Split cone nut	Stainless steel	AISI 304
10	Neck ring	NBR	-----
11	Valve support	NBR	-----
12	Non-return valve	Stainless steel	AISI 304
13	Delivery port	Stainless steel	AISI 304
14	Washer	Stainless steel	AISI 304
15	Nut for strap	Stainless steel	AISI 304
16	Cable guard	Stainless steel	AISI 304
17	Strap	Stainless steel	AISI 304

## 46BP-60BP SERIES

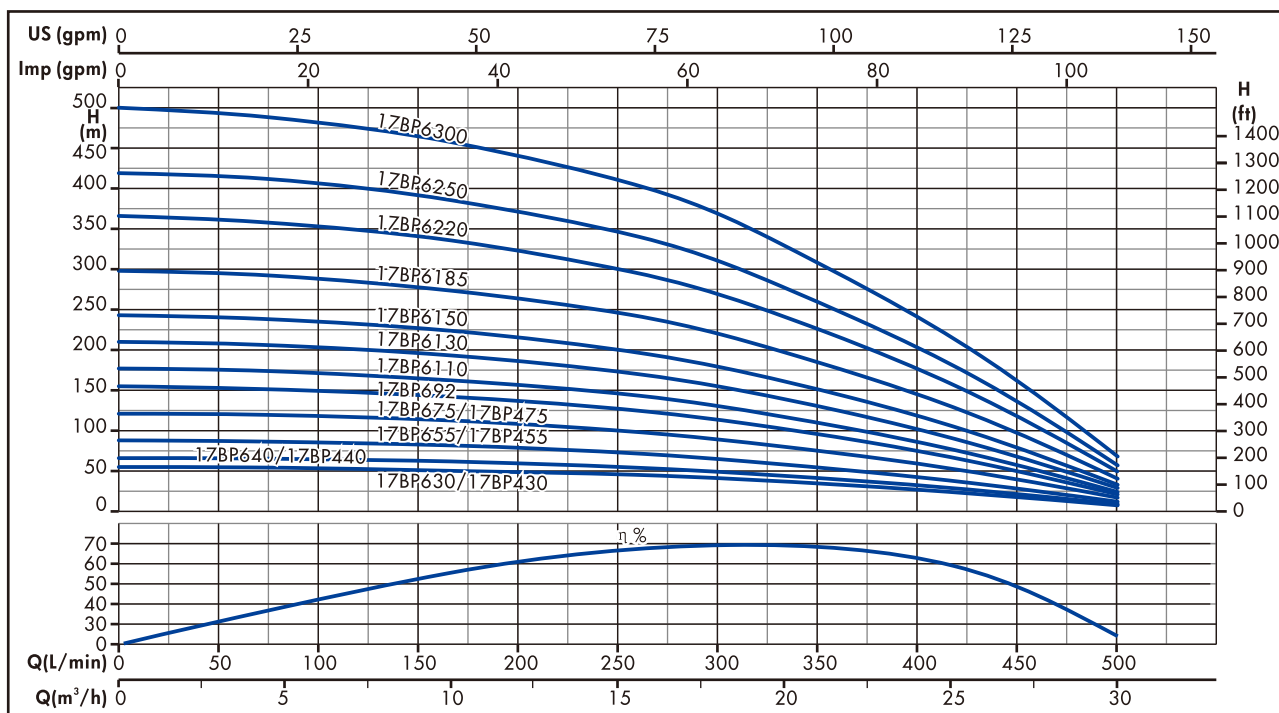
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Stainless steel	AISI 304
2	Coupling	Stainless steel	AISI 304
3	Shaft	Stainless steel	AISI 304
4	First neck ring	Carbon/graphite in PTFE	-----
5	Impeller	Stainless steel	AISI 304
6	Split cone	Stainless steel	AISI 304
7	Diffuser	Stainless steel	AISI 304
8	Neck ring	NBR	-----
9	Valve support	NBR	-----
10	Non-return valve	Stainless steel	AISI 304
11	Delivery port	Stainless steel	AISI 304
12	Thrust bearing	NBR	-----
13	Nut for stop ring	Stainless steel	AISI 304
14	Bush bearing	NBR	-----
15	Split cone nut	Stainless steel	AISI 304
16	Washer	Stainless steel	AISI 304
17	Nut for strap	Stainless steel	AISI 304
18	Cable guard	Stainless steel	AISI 304
19	Strap	Stainless steel	AISI 304

## 17BP SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

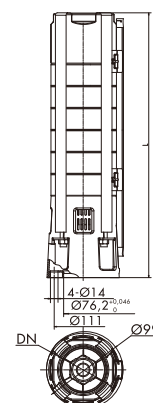


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY									
				L/min 0	83	167	250	283	333	417	500		
				H=TOTAL HEAD METERS COLUMN OF WATER									
				m <sup>3</sup> /h 0	5	10	15	17	20	25	30		
17BP430	5	3,0	4,0	55	54	50	46	43	37	24	8		
17BP630													
17BP440													
17BP640	6	4,0	6,0	66	65	60	55	51	44	29	9		
17BP455													
17BP655													
17BP475	11	7,5	10	121	119	110	100	94	80	53	17		
17BP675													
17BP692													
17BP6110	14	9,2	12,5	155	151	140	127	119	102	67	21		
17BP6130													
17BP6150													
17BP6185	27	18,5	25	243	237	220	200	187	161	106	33		
17BP6220													
17BP6250													
17BP6300	45	30	40	419	410	380	346	323	277	182	57		

### DIMENSIONS AND WEIGHTS AT 50 Hz

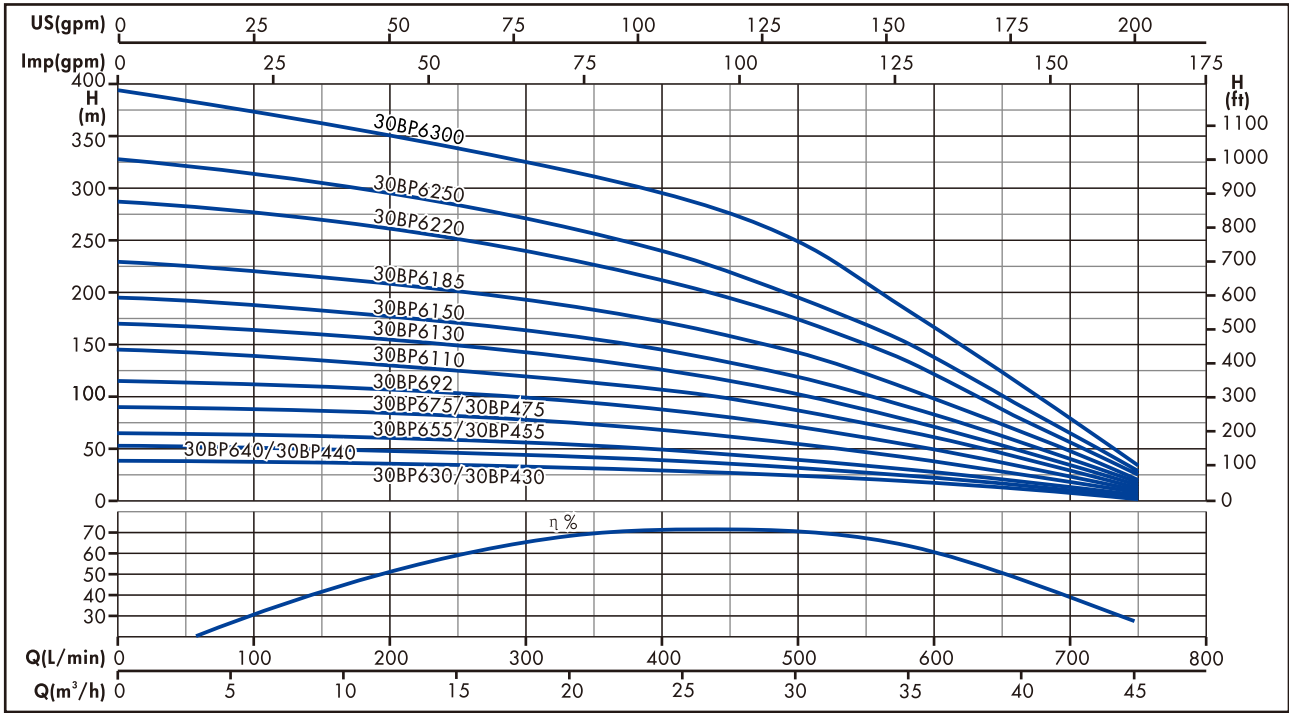
PUMP TYPE	N.OF STAGE	DN	L mm	PUMP WEIGHT kg
17BP630	5	Rp3"	497	8,7
17BP430				
17BP640				
17BP440	6		517	9,2
17BP655				
17BP455				
17BP675	11		741	14,1
17BP475				
17BP692				
17BP6110	14		766	4,2
17BP6130				
17BP6150				
17BP6185	27		901	16,8
17BP6220				
17BP6250				
17BP6300	45	991	18,6	
		1126	21,3	
		1261	24	
		1486	28,5	
		1756	33,9	
		1981	38,4	
		2296	44,7	





### 30BP SERIES

#### OPERATING CHARACTERISTICS AT 50 Hz

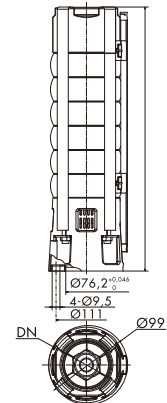


#### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	NO. OF STAGES	kW	Hp	Q=DELIVERY								
				L/min	167	333	417	500	583	667	750	
				m <sup>3</sup> /h	10	20	25	30	35	40	45	
				H=TOTAL HEAD METERS COLUMN OF WATER								
30BP430	3	3,0	4,0	39	36	32	28	24	18	11	3	
30BP630												
30BP440												
30BP640	4	4,0	6,0	52	48	42	38	32	24	14	4	
30BP455												
30BP655												
30BP475	7	8,0	10	90	84	74	66	55	42	25	8	
30BP675												
30BP692												
30BP6110	11	9,2	12,5	116	108	95	85	70	54	32	10	
30BP6130												
30BP6150												
30BP6185	18	18,5	25	236	215	189	169	142	108	65	20	
30BP6220												
30BP6250												
30BP6300	30	30	40	393	359	315	282	235	180	108	33	

#### DIMENSIONS AND WEIGHTS AT 50 Hz

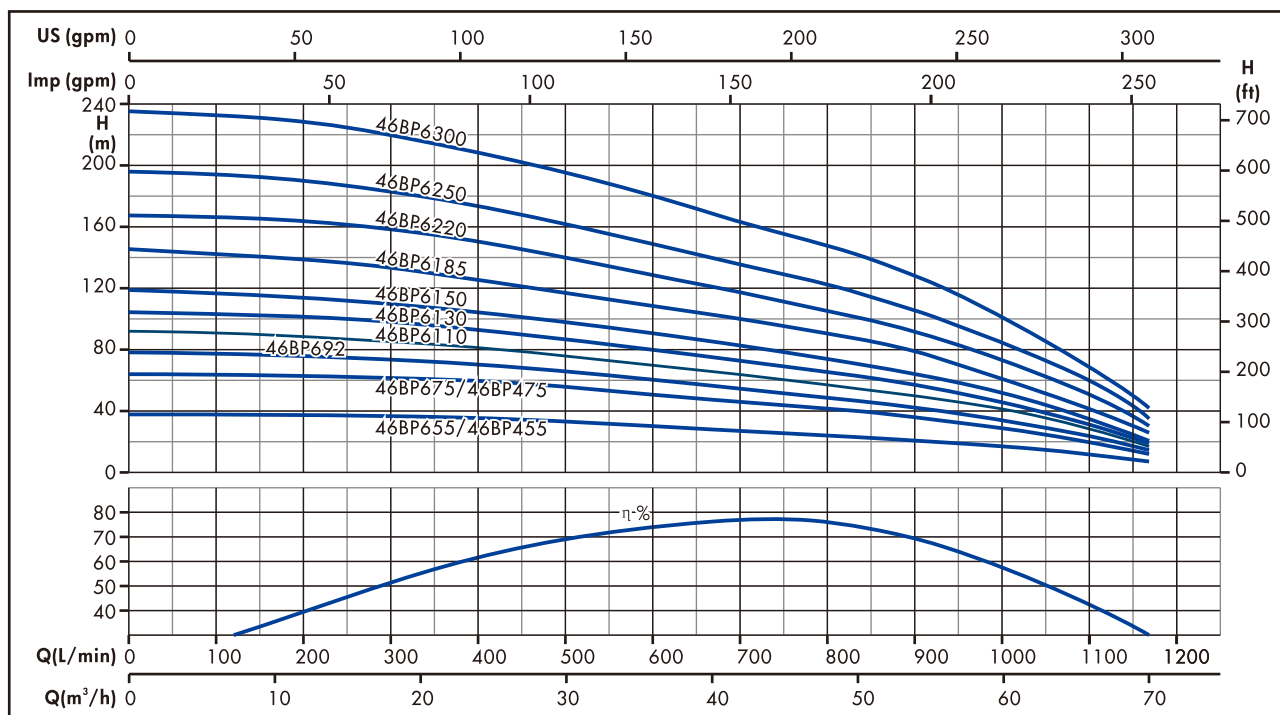
PUMP TYPE	N. OF STAGE	DN	L mm	PUMP WEIGHT kg
30BP630	3	Rp3"	441,5	7,2
30BP430			416,5	6,8
30BP640			498	8,2
30BP440	4		473	7,8
30BP655			554	9,2
30BP455			529	8,8
30BP675	7		667	11,2
30BP475			642	10,8
30BP692			780	13,2
30BP6110	11		893	15,2
30BP6130			1006	17,2
30BP6150			1119	19,2
30BP6185	18		1288	22,2
30BP6220			1514	26,2
30BP6250			1684	29,2
30BP6300	30	1966	34,2	





## 46BP SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

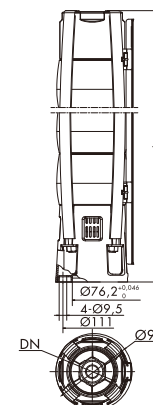


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY											
				L/min 0	167	333	583	667	767	833	917	1000	1083	1167	
				m³/h 0	10	20	35	40	46	50	55	60	65	70	
				H=TOTAL HEAD METERS COLUMN OF WATER											
46BP455	3	5,5	7,5	38	38	36	30	28	26	23	21	17	12	7	
46BP655				38	36	30	28	26	23	21	17	12	7		
46BP475	5	7,5	10	64	64	60	50	47	43	40	35	29	21	12	
46BP675				64	60	50	47	43	40	35	29	21	12		
46BP692	6	9,2	12,5	78	77	72	59	56	51	47	42	34	25	14	
46BP6110	7	11	15	91	89	84	70	66	61	56	49	41	30	17	
46BP6130	8	13	17,5	104	102	96	79	74	68	63	56	45	33	19	
46BP6150	9	15	20	117	115	108	89	84	77	71	63	50	37	21	
46BP6185	11	18,5	25	145	141	131	110	104	93	88	76	60	45	26	
46BP6220	13	22	30	169	166	155	129	121	111	103	90	73	54	31	
46BP6250	15	25	35	195	192	179	149	140	128	117	104	84	62	35	
46BP6300	18	30	40	234	230	215	175	167	153	142	125	101	75	42	

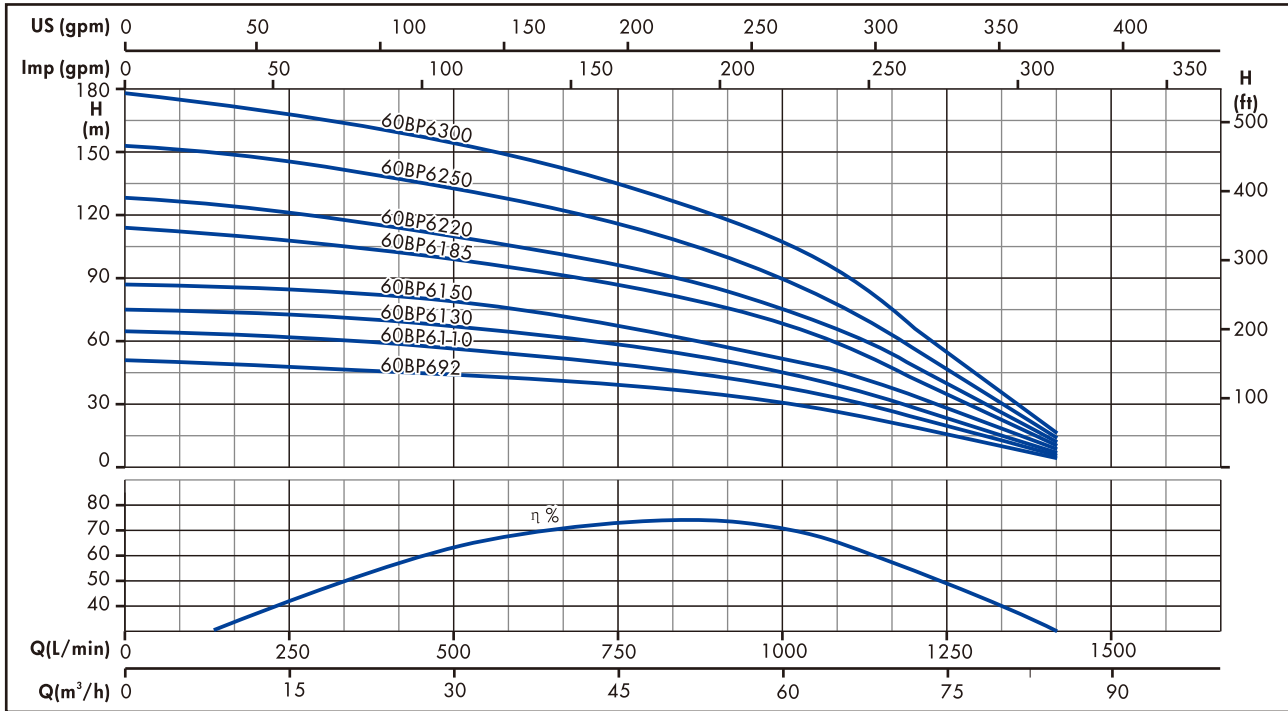
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L mm	PUMP WEIGHT kg
46BP655	3	Rp3"/Rp4"	610	11
46BP455			585	10,6
46BP675	5		836	15,5
46BP475			811	15,1
46BP692	6		949	17,7
46BP6110	7		1062	20
46BP6130	8		1175	22,2
46BP6150	9		1288	24,5
46BP6185	11		1514	29
46BP6220	13		1740	33,5
46BP6250	15		1966	38
46BP6300	18		2305	44,7



## 60BP SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

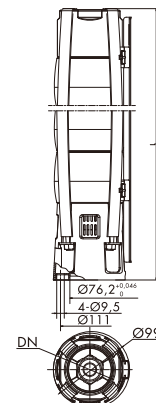


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q = DELIVERY										
				L/min 0	667	767	833	917	1000	1083	1200	1333	1417	
				m³/h 0	40	46	50	55	60	65	72	80	85	
H = TOTAL HEAD METERS COLUMN OF WATER														
60BP692	4	9,2	12,5	51	40	39	36	34	30	26	18	11	5	
60BP6110	5	11	15	64	51	48	45	42	38	33	23	13	6	
60BP6130	6	13	17,5	77	61	58	54	50	45	39	27	16	7	
60BP6150	7	15	20	89	71	68	63	59	52	46	32	19	8	
60BP6185	9	18,5	25	115	91	87	81	76	68	59	41	24	10	
60BP6220	10	22	30	128	101	97	90	84	75	65	45	26	12	
60BP6250	12	25	35	153	121	116	108	101	90	78	54	31	14	
60BP6300	14	30	40	179	141	135	126	118	105	91	63	36	16	

### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L mm	PUMP WEIGHT kg
60BP692	4	Rp3"/Rp4"	723	13,4
60BP6110	5		836	15,8
60BP6130	6		949	18,1
60BP6150	7		1062	20,4
60BP6185	9		1288	25
60BP6220	10		1401	27,3
60BP6250	12		1627	31,9
60BP6300	14		1853	36,5





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