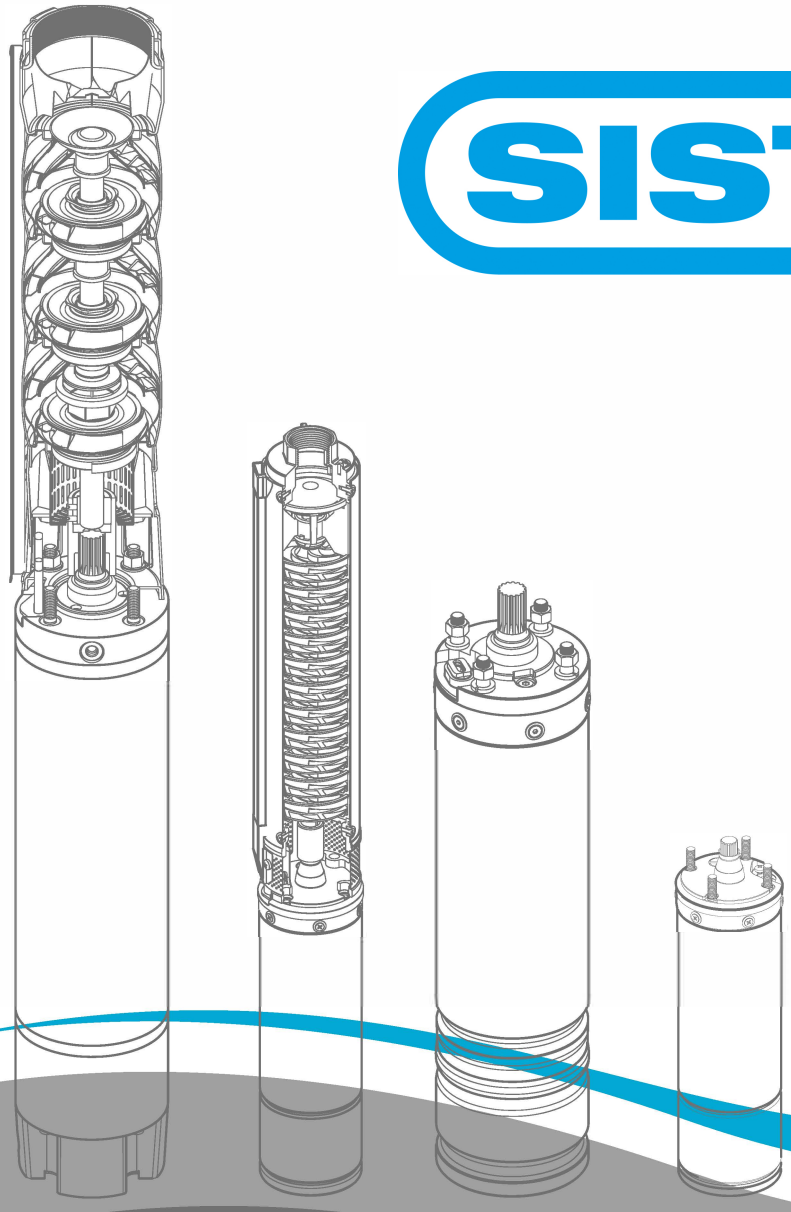
Elettropompe Sommerse

Submersed Electropump

Technical Catalogue

Catalogo Tecnico



SISTEMA®

4OS SERIES 4" OIL-FILLED SUBMERSIBLE MOTORS

- The state-of-art design and choice of component materials ensure optimum operating performances, superior quality, reliability and ease of installation.

SPECIFICATIONS

- Shaft extension and couplings meet NEMA standards.
- Rewindable stator.
- Winding insulation: class F .
- Protection grade: IP68 .
- Filling fluid in compliance with standards concerning oils contact with foodstuffs and with the purity requirements specified by the annex to G.U. no. 104 of 20/04/1973; it also complies with F.D.A. (FOOD AND DRUG ADMINISTRATION) standards.
- Large compensation bellows for the expansion of the internal liquid.
- Oversized thrust bearings: Shaft supported by oversized angular bearings which can support thrust load up to 6500 N.
- Mechanical seal with sand protection.
- Removable cable connector.
- Maximum immersion depth: 150 m.
- Maximum number of starts per hour, at regular intervals: 30 for direct start.
- Maximum allowable voltage fluctuations over the rated voltage:
  220 V ± 10 %
  380 V ± 10 %

MODELS

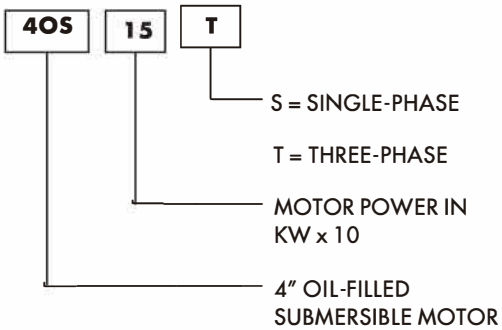
- Single-phase:
  from 0,25 to 2,2 kW, 220 V, 50 Hz.

- Three-phase:
  from 0,37 to 2,2 kW, 220 V, 50 Hz.
  from 0,37 to 7,5 kW, 380 V, 50 Hz.

OPTIONAL FEATURES

- Different voltage and frequency.
- Different materials.

IDENTIFICATION CODE

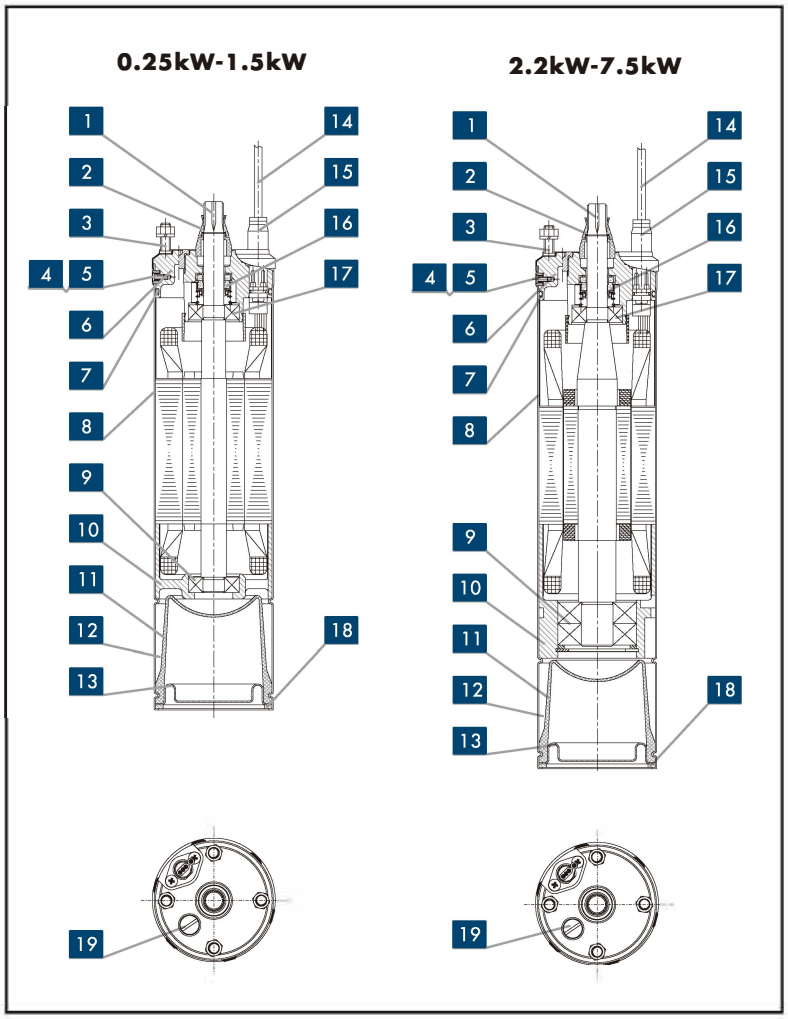


EXAMPLE OF MOTOR TYPE

4OS15T

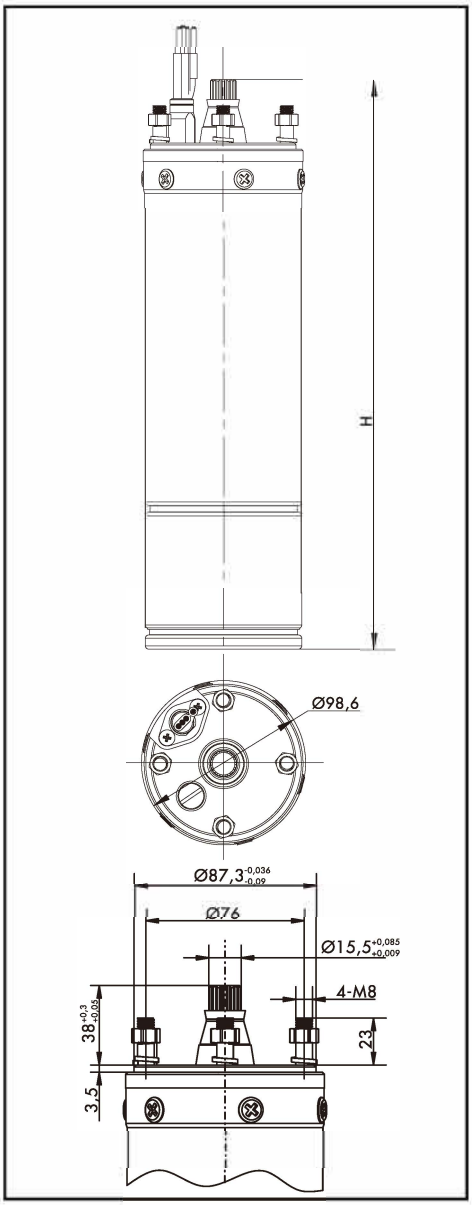
4" oil-filled submersible motor , three-phase , 1,5kW (2 Hp)

4OS SERIES MOTOR CROSS SECTION AND TABLE OF MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Shaft extension	Stainless steel	AISI 420(P ≤ 2,2 kW) AISI 630(3,0 kW ≤ P ≤ 7,5 kW)
2	Sand protection	NBR	------
3	Double ends studs	Stainless steel	AISI 304
4	Pin	Stainless steel	AISI 304
5	Screw	Stainless steel	AISI 304
6	Upper support	Brass	ASTM C37700
7	O-ring	NBR	------
8	Motor shell	Stainless steel	AISI 304
9	Angular bearing	------	------
10	Lower support	Cast iron	ASTM 25A
11	Compensation bellow	NBR	------
12	Cooling liquid	Non toxic oil	------
13	Lower protection	Stainless steel	AISI 304
14	Cable	------	------
15	Cable connector sleeve	Stainless steel	AISI 304
16	Mechanical seal	Carbon/Ceramic	------
17	Ball bearing	------	------
18	Snap ring	Stainless steel	AISI 304
19	Filling screw	Stainless steel	AISI 304

DIMENSIONS AND WEIGHTS AT 50 Hz



MOTOR TYPE	POWER kW	POWER Hp	H mm	WEIGHT Kg
4OS02S	0,25	0,33	356,5	7,4
4OS03S	0,37	0,5	366,5	7,8
4OS03T			371,5	7,4
4OS05S	0,55	0,75	381,5	8,5
4OS05T			386,5	8
4OS07S	0,75	1,0	401,5	9,4
4OS07T			406,5	9
4OS11S	1,1	1,5	432,5	10,7
4OS11T			442,5	10,4
4OS15S	1,5	2,0	472,5	12,6
4OS15T			482,5	12,1
4OS22S	2,2	3,0	585	17,3
4OS22T			560	16,9
4OS30T	3,0	4,0	635	20
4OS40T	4,0	5,5	684	22,3
4OS55T	5,5	7,5	804	27,9
4OS75T	7,5	10	919	33,6

BH SERIES 4" SUBMERSIBLE ELECTRIC PUMPS

- State-of-the-art hydraulic design and the choice of best material ensure high efficiency, best performance and reliability.

APPLICATIONS

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

SPECIFICATIONS

- Delivery: up to 22 m^3/h at 2850 rpm.
- Head: up to 347 m at 2850 rpm.
- Maximum pump overall diameter (cable cover included): 99 mm.
- Maximum permissible quantity of sand: 150 g/m^3.
- 2BH , 4BH , 6BH versions: delivery port Rp1"1/4.
- 8BH , 12BH , 16BH versions: delivery port Rp2".

MOTOR

- 4OS single-phase version:
  from 0,25 to 2,2 kW, 220 V, 50 Hz.
- 4OS three-phase version:
  from 0,37 to 2,2 kW, 220 V, 50 Hz.
  from 0,37 to 7,5 kW, 380 V, 50 Hz.
- Horizontal operation: 4OS up to 2,2 kW.
- Maximum temperature of water in contact with motor: 35 °C .

CONSTRUCTION & CHARACTERISTICS

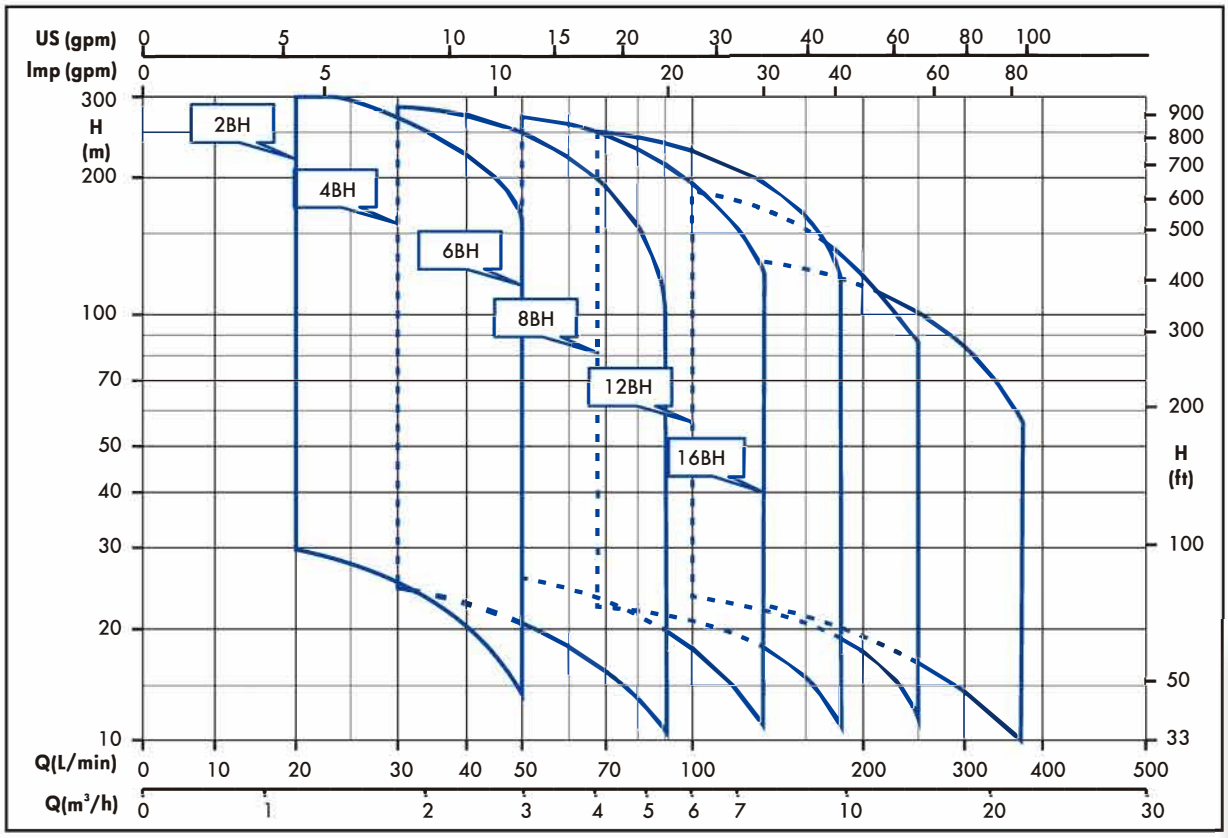
- Easy to maintain and rapid to install.
- Abrasion resistant construction, Floating impellers ensure optimum resistance to abrasion.
- The delivery port and suction support are made of precision-cast stainless steel, guarantee resistance to corrosion, durability and a sturdy coupling to the motor.
- The hexagonal pump shaft guarantees an effective impeller driving.
- A stainless steel non-return valve is fitted at the discharge to prevent back flow of water and alleviate water hammer to the pump, thus safeguarding impellers and diffusers.
- The BH series pumps can be coupled with the 4OS motors.
- Vertical and horizontal installation.
- Standard and special versions available.

OPTIONAL FEATURES

- Different voltages and frequencies.
- Different materials.

BH SERIES

HYDRAULIC PERFORMANCE RANGE AT 50 Hz



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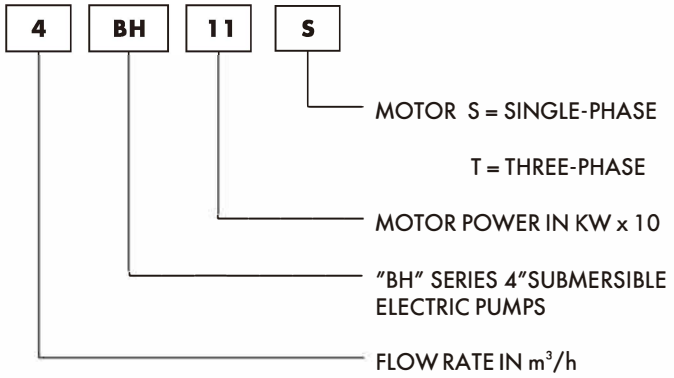


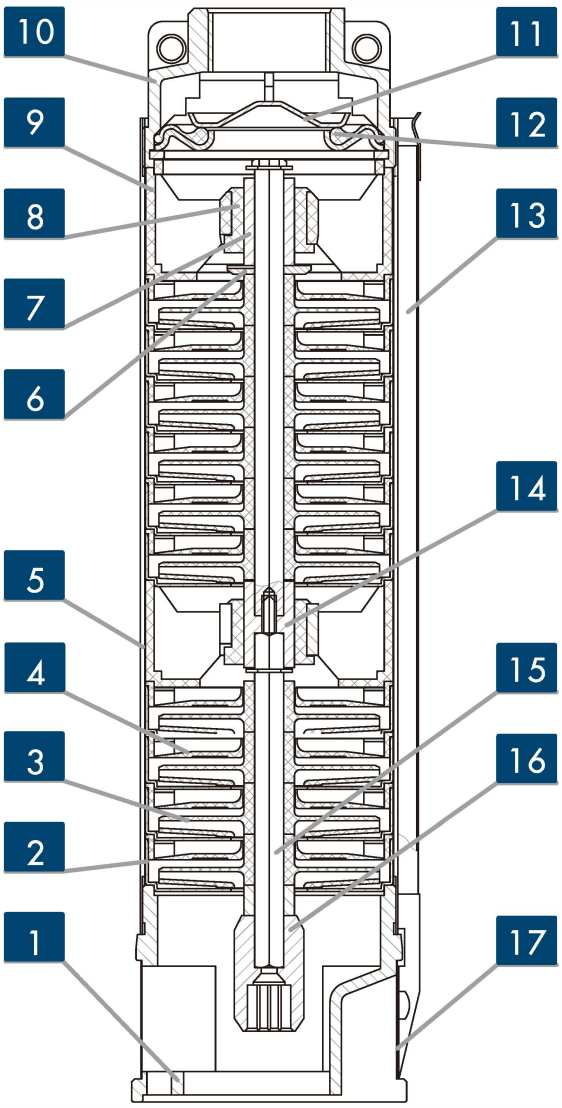
EXAMPLE OF PUMP TYPE

4BH11S

BH series 4" submersible electric pump with flow rate of 4 m³/h; with single-phase 1,1 kW (1,5 Hp) motor.

2BH-4BH SERIES

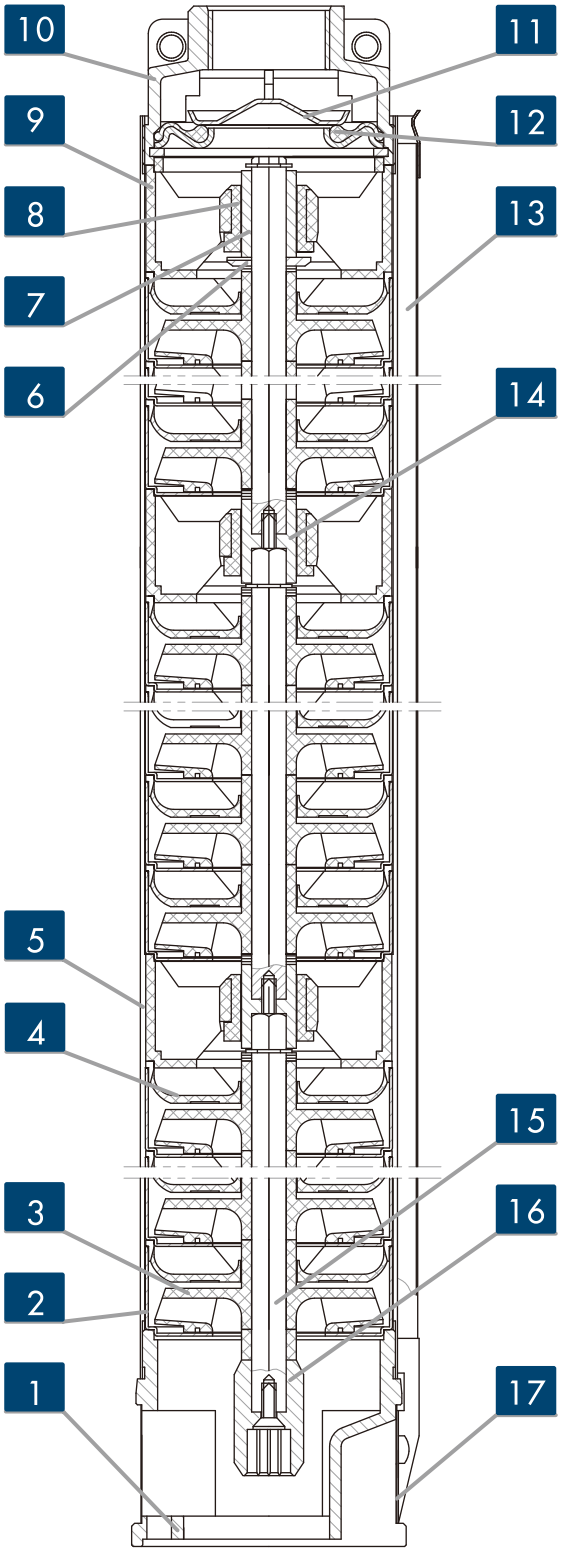
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel	AISI 304
2	Stage housing	Stainless steel	AISI 304
3	Impeller	Lexan® PC	------
4	Diffuser	Lexan® PC	------
5	Outer sleeve	Stainless steel	AISI 304
6	Thrust bearing	Stainless steel	AISI 304
7	Shaft sleeve	Stainless steel	AISI 304
8	Bush bearing	TPU	------
9	Upper support	Lexan® PC	------
10	Delivery port	Precision-cast stainless steel	AISI 304
11	Non-return valve	Stainless steel	AISI 304
12	Valve support with gasket	Stainless steel & NBR	AISI 304& ------
13	Cable guard	Stainless steel	AISI 304
14	Intermediate Shaft sleeve	Stainless steel	AISI 304
15	Shaft	Stainless steel	AISI 420
16	Coupling	Stainless steel	AISI 304
17	Filter	Stainless steel	AISI 304

6BH-8BH SERIES

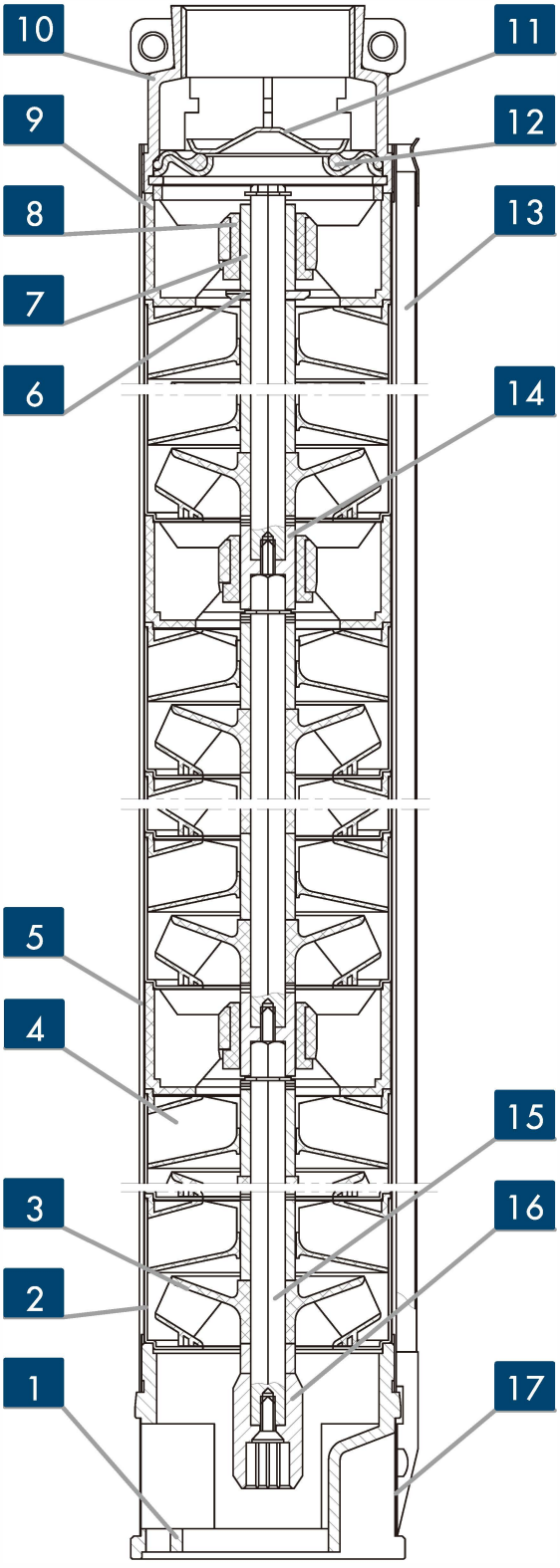
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel	AISI 304
2	Stage housing	Stainless steel	AISI 304
3	Impeller	Lexan® PC	------
4	Diffuser	Lexan® PC	------
5	Outer sleeve	Stainless steel	AISI 304
6	Thrust bearing	Stainless steel	AISI 304
7	Shaft sleeve	Stainless steel	AISI 304
8	Bush bearing	TPU	------
9	Upper support	Lexan® PC	------
10	Delivery port	Precision-cast stainless steel	AISI 304
11	Non-return valve	Stainless steel	AISI 304
12	Valve support with gasket	Stainless steel & NBR	AISI 304& ------
13	Cable guard	Stainless steel	AISI 304
14	Intermediate Shaft sleeve	Stainless steel	AISI 304
15	Shaft	Stainless steel	AISI 420
16	Coupling	Stainless steel	AISI 304
17	Filter	Stainless steel	AISI 304

12BH SERIES

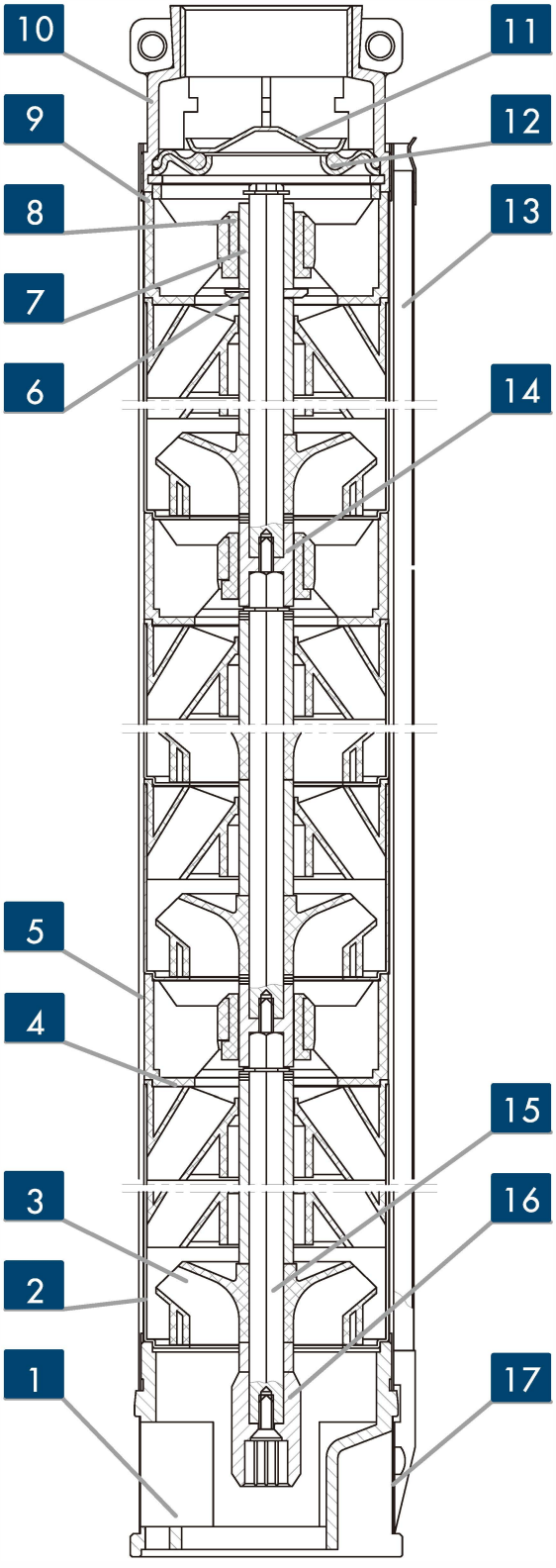
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel	AISI 304
2	Stage housing	Stainless steel	AISI 304
3	Impeller	Lexan® PC	------
4	Diffuser	Lexan® PC	------
5	Outer sleeve	Stainless steel	AISI 304
6	Thrust bearing	Stainless steel	AISI 304
7	Shaft sleeve	Stainless steel	AISI 304
8	Bush bearing	TPU	------
9	Upper support	Lexan® PC	------
10	Delivery port	Precision-cast stainless steel	AISI 304
11	Non-return valve	Stainless steel	AISI 304
12	Valve support with gasket	Stainless steel & NBR	AISI 304& ------
13	Cable guard	Stainless steel	AISI 304
14	Intermediate Shaft sleeve	Stainless steel	AISI 304
15	Shaft	Stainless steel	AISI 420
16	Coupling	Stainless steel	AISI 304
17	Filter	Stainless steel	AISI 304

16BH SERIES

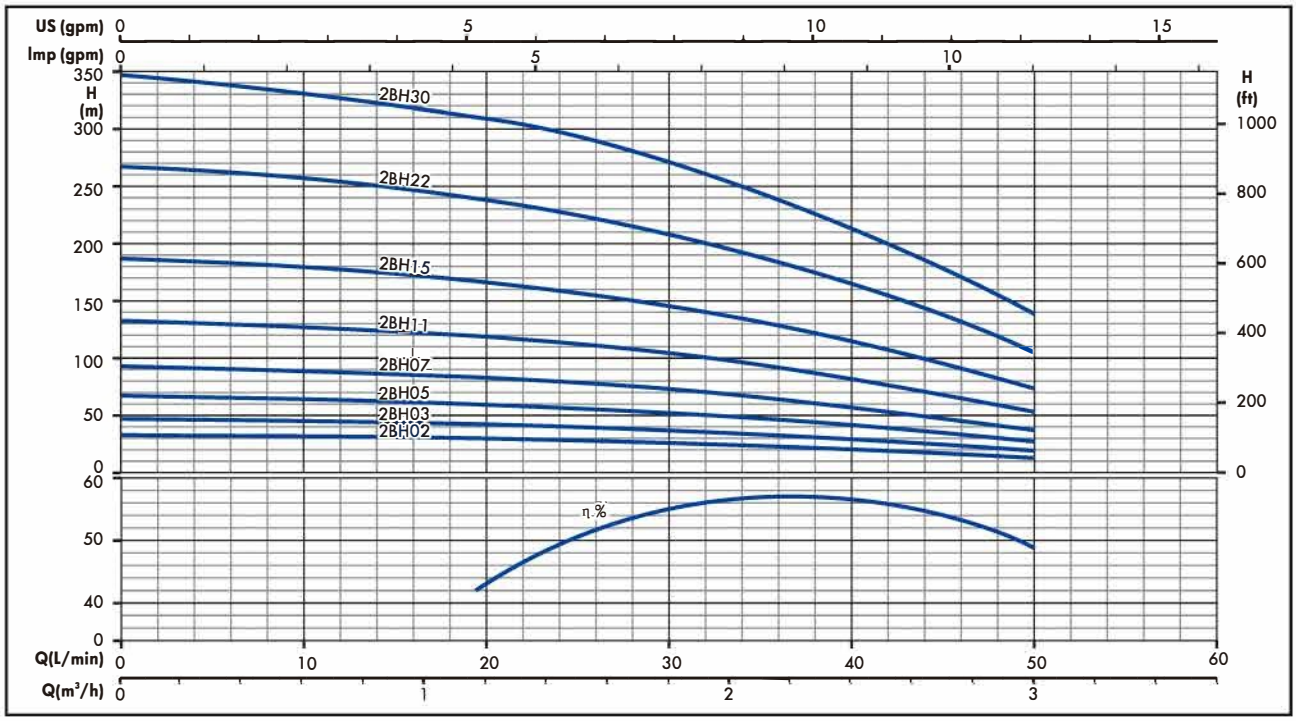
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel	AISI 304
2	Stage housing	Stainless steel	AISI 304
3	Impeller	Lexan® PC	------
4	Diffuser	Lexan® PC	------
5	Outer sleeve	Stainless steel	AISI 304
6	Thrust bearing	Stainless steel	AISI 304
7	Shaft sleeve	Stainless steel	AISI 304
8	Bush bearing	TPU	------
9	Upper support	Lexan® PC	------
10	Delivery port	Precision-cast stainless steel	AISI 304
11	Non-return valve	Stainless steel	AISI 304
12	Valve support with gasket	Stainless steel & NBR	AISI 304& ------
13	Cable guard	Stainless steel	AISI 304
14	Intermediate Shaft sleeve	Stainless steel	AISI 304
15	Shaft	Stainless steel	AISI 420
16	Coupling	Stainless steel	AISI 304
17	Filter	Stainless steel	AISI 304

2BH SERIES

OPERATING CHARACTERISTICS AT 50 Hz

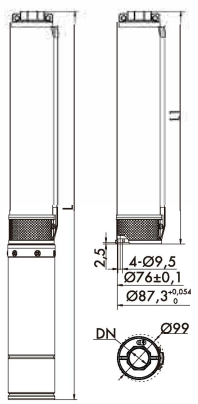


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min 0	20	25	30	40	50
				m³/h 0	1,2	1,5	1,8	2,4	3
				H=TOTAL HEAD METERS COLUMN OF WATER					
2BH02S	5	0,25	0,33	33	30	28	26	20	13
2BH03S 2BH03T	7	0,37	0,5	47	42	40	36	29	19
2BH05S 2BH05T	10	0,55	0,7	67	60	56	52	41	27
2BH07S 2BH07T	14	0,75	1,0	93	83	79	73	57	37
2BH11S 2BH11T	20	1,1	1,5	133	119	113	104	82	53
2BH15S 2BH15T	28	1,5	2,0	187	167	158	146	115	74
2BH22S 2BH22T	40	2,2	3,0	267	238	226	208	164	106
2BH30T	52	3,0	4,0	347	309	294	271	213	138

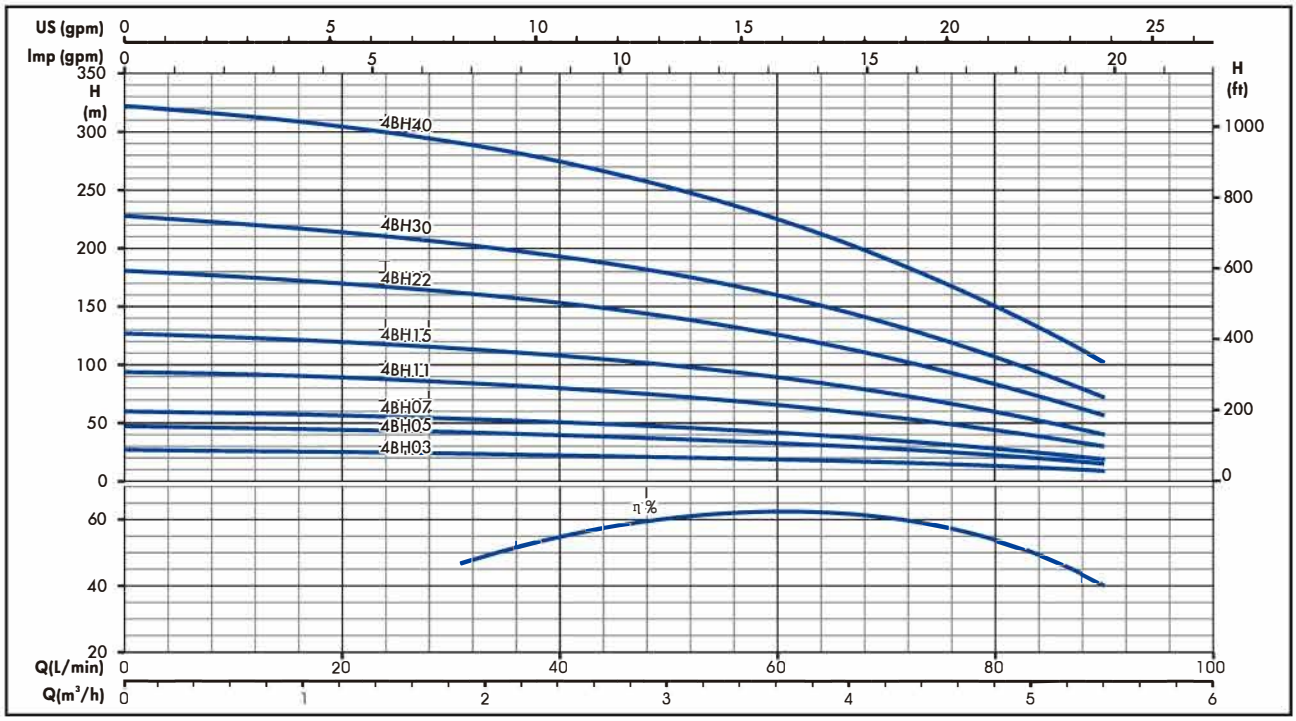
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP Weight Kg	ELECTRIC PUMP Weight Kg
2BH02S	5	Rp1"1/4	252	579	2,3	10,1
2BH03S	7		287	624	2,7	10,9
2BH03T				629		10,5
2BH05S	10		340	692	3,2	12,1
2BH05T				697		11,6
2BH07S	14		411	783	3,9	13,7
2BH07T				788		13,3
2BH11S	20		516	913	5	16,1
2BH11T				923		15,7
2BH15S	28		657	1094	6,4	19,4
2BH15T				1104		18,9
2BH22S	40		905	1453	9,1	26,8
2BH22T				1449		26,3
2BH30T	52		1116	1720	11,2	31,7



4BH SERIES

OPERATING CHARACTERISTICS AT 50 Hz

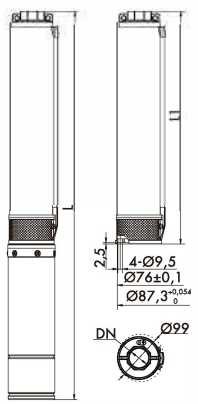


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY						
				l/min 0	30	40	50	60	80	90
				m³/h 0	1,8	2,4	3	3,6	4,8	5,4
				H=TOTAL HEAD METERS COLUMN OF WATER						
4BH03S 4BH03T	4	0,37	0,5	27	24	23	21	19	13	9
4BH05S 4BH05T	7	0,55	0,7	47	42	40	37	33	22	15
4BH07S 4BH07T	9	0,75	1,0	60	54	51	47	42	28	19
4BH11S 4BH11T	14	1,1	1,5	94	84	80	74	66	44	30
4BH15S 4BH15T	19	1,5	2,0	127	114	108	100	89	60	40
4BH22S 4BH22T	27	2,2	3,0	181	162	154	142	127	85	57
4BH30T	35	3,0	4,0	228	204	194	179	160	107	72
4BH40T	48	4,0	5,0	322	288	274	252	226	151	102

DIMENSIONS AND WEIGHTS AT 50 Hz

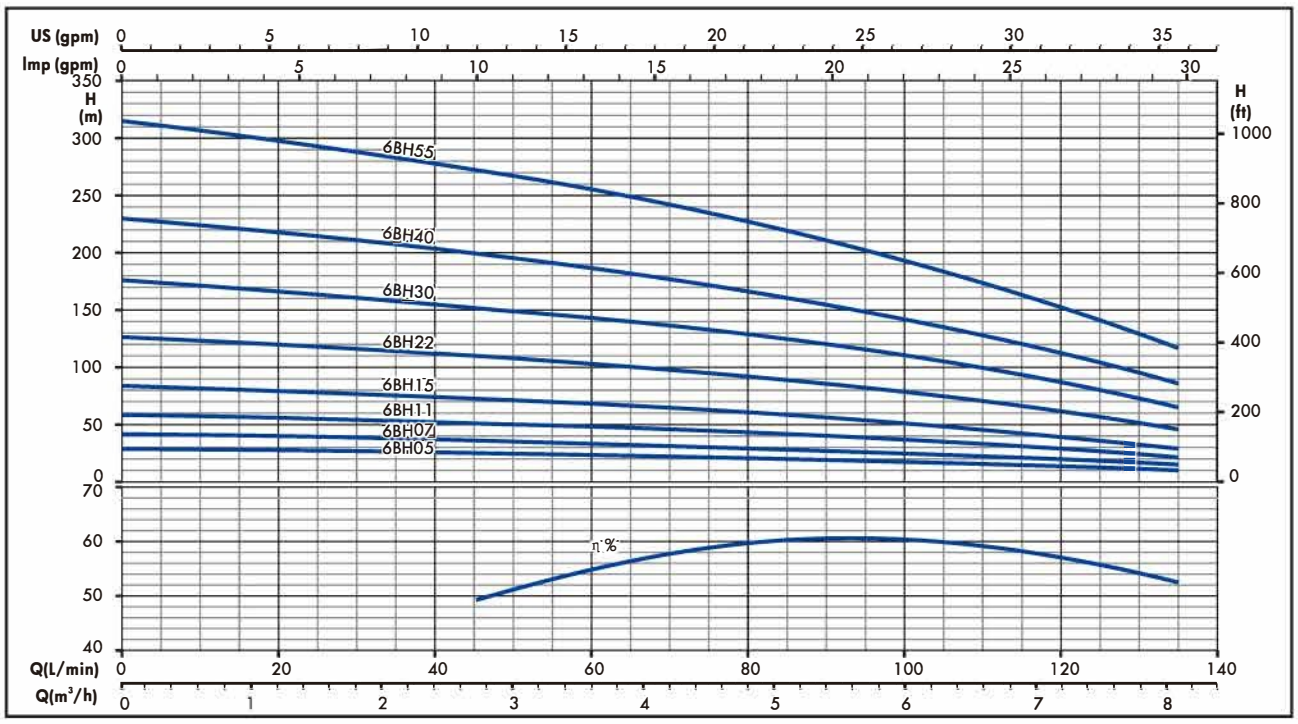
PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP Weight Kg	ELECTRIC PUMP Weight Kg
4BH03S	4	Rp1"1/4	254	591	2,2	10,4
4BH03T				596		10
4BH05S	7		319	671	2,8	11,7
4BH05T				676		11,2
4BH07S	9		362	734	3,2	13
4BH07T				739		12,6
4BH11S	14		471	868	4,2	15,3
4BH11T				878		14,9
4BH15S	19		580	1017	5,2	18,2
4BH15T				1027		17,7
4BH22S	27		790	1338	7,4	25,1
4BH22T				1334		24,6
4BH30T	35		964	1568	9	29,5
4BH40T	48		1245	1895	11,6	34,4



SISTEMA

6BH SERIES

OPERATING CHARACTERISTICS AT 50 Hz

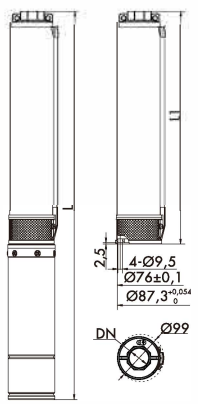


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min 0	60	75	90	105	120	135
				m³/h 0	3,6	4,5	5,4	6,3	7,2	8,1
				H=TOTAL HEAD METERS COLUMN OF WATER						
6BH05S	5	0,55	0,7	30	25	23	20	18	15	11
6BH05T										
6BH07S	7	0,75	1,0	43	35	32	28	24	20	15
6BH07T										
6BH11S	10	1,1	1,5	61	49	46	41	35	30	22
6BH11T										
6BH15S	14	1,5	2,0	85	69	64	57	50	41	31
6BH15T										
6BH22S	21	2,2	3,0	128	104	97	87	76	61	47
6BH22T										
6BH30T	29	3,0	4,0	177	143	132	119	105	85	66
6BH40T	38	4,0	5,5	232	188	172	156	136	112	86
6BH55T	52	5,5	7,5	317	257	235	213	185	152	118

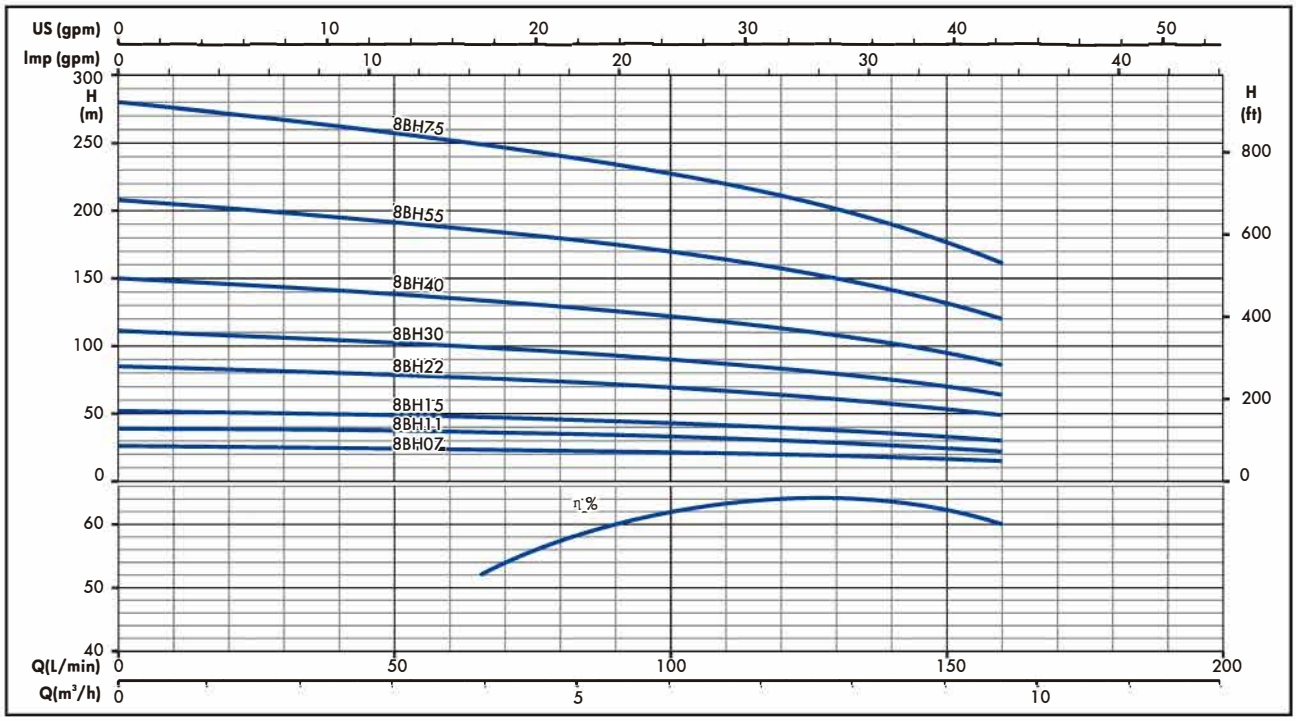
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP Weight Kg	ELECTRIC PUMP Weight Kg
6BH05S	5	Rp1"1/4	332	684	2,8	11,7
6BH05T				689		11,2
6BH07S	7		394	766	3,4	13,2
6BH07T				771		12,8
6BH11S	10		487	884	4,2	15,3
6BH11T				894		14,9
6BH15S	14		611	1048	5,2	18,2
6BH15T				1058		17,7
6BH22S	21		865	1413	7,6	25,3
6BH22T				1409		24,8
6BH30T	29		1113	1717	9,7	30,2
6BH40T	38		1392	2042	12,1	34,9
6BH55T	52		1863	2633	16,3	44,7



8BH SERIES

OPERATING CHARACTERISTICS AT 50 Hz

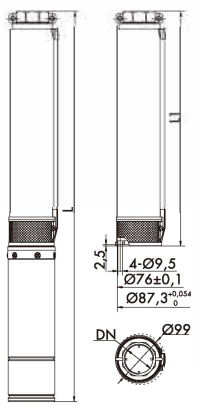


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min 0	60	80	100	120	140	160
				m³/h 0	3,6	4,8	6	7,2	8,4	9,6
				H=TOTAL HEAD METERS COLUMN OF WATER						
8BH07S	4	0,75	1,0	26	23	22	21	20	18	15
8BH07T										
8BH11S	6	1,1	1,5	39	35	34	32	29	27	22
8BH11T										
8BH15S	8	1,5	2,0	52	47	45	43	39	35	30
8BH15T										
8BH22S	13	2,2	3,0	85	76	73	69	64	57	49
8BH22T										
8BH30T	17	3,0	4,0	111	100	95	90	83	75	64
8BH40T	23	4,0	5,5	150	135	129	122	113	102	86
8BH55T	32	5,5	7,5	208	187	179	170	157	141	120
8BH75T	43	7,5	10	280	252	241	228	211	190	161

DIMENSIONS AND WEIGHTS AT 50 Hz

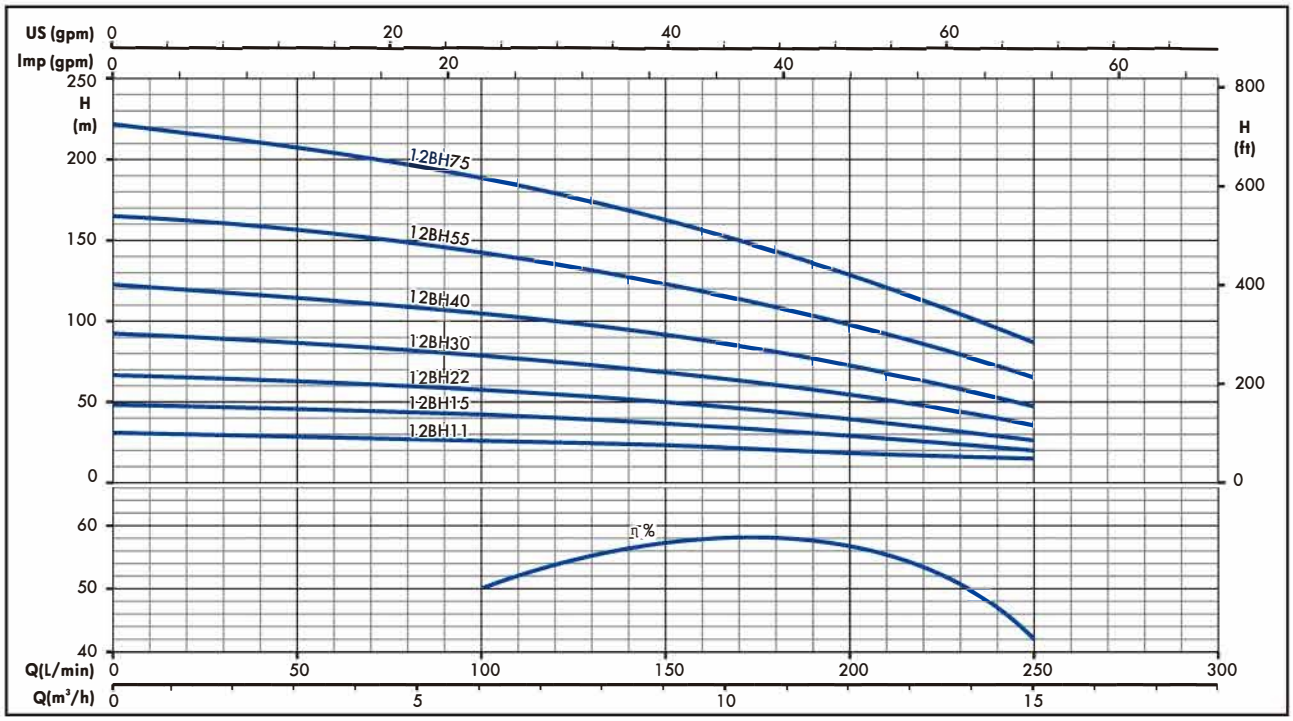
PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP Weight Kg	ELECTRIC PUMP Weight Kg
8BH07S	4	Rp2"	301	673	2,7	12,5
8BH07T				678		12,1
8BH11S	6		363	760	3,2	14,3
8BH11T				770		13,9
8BH15S	8		425	862	3,8	16,8
8BH15T				872		16,3
8BH22S	13		580	1128	5,2	22,9
8BH22T				1124		22,4
8BH30T	17		704	1308	6,3	26,8
8BH40T	23		927	1577	8,4	31,2
8BH55T	32		1206	1976	11	39,4
8BH75T	43		1584	2469	14,5	48,6



SISTEMA

12BH SERIES

OPERATING CHARACTERISTICS AT 50 Hz

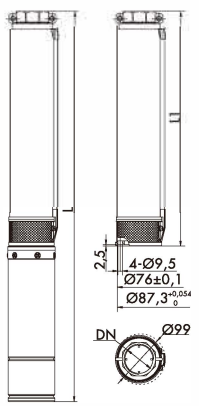


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min 0	100	120	140	160	200	250
				m³/h 0	6	7,2	8,4	9,6	12	15
				H=TOTAL HEAD METERS COLUMN OF WATER						
12BH11S	5	1,1	1,5	31	26	25	24	21	18	12
12BH11T										
12BH15S	8	1,5	2,0	49	42	40	38	34	29	19
12BH15T										
12BH22S	11	2,2	3,0	67	58	55	52	47	40	26
12BH22T										
12BH30T	15	3,0	4,0	92	79	75	71	65	54	36
12BH40T	20	4,0	5,5	122	105	100	94	87	72	48
12BH55T	27	5,5	7,5	165	142	135	127	117	98	65
12BH75T	36	7,5	10	221	189	180	169	156	130	87

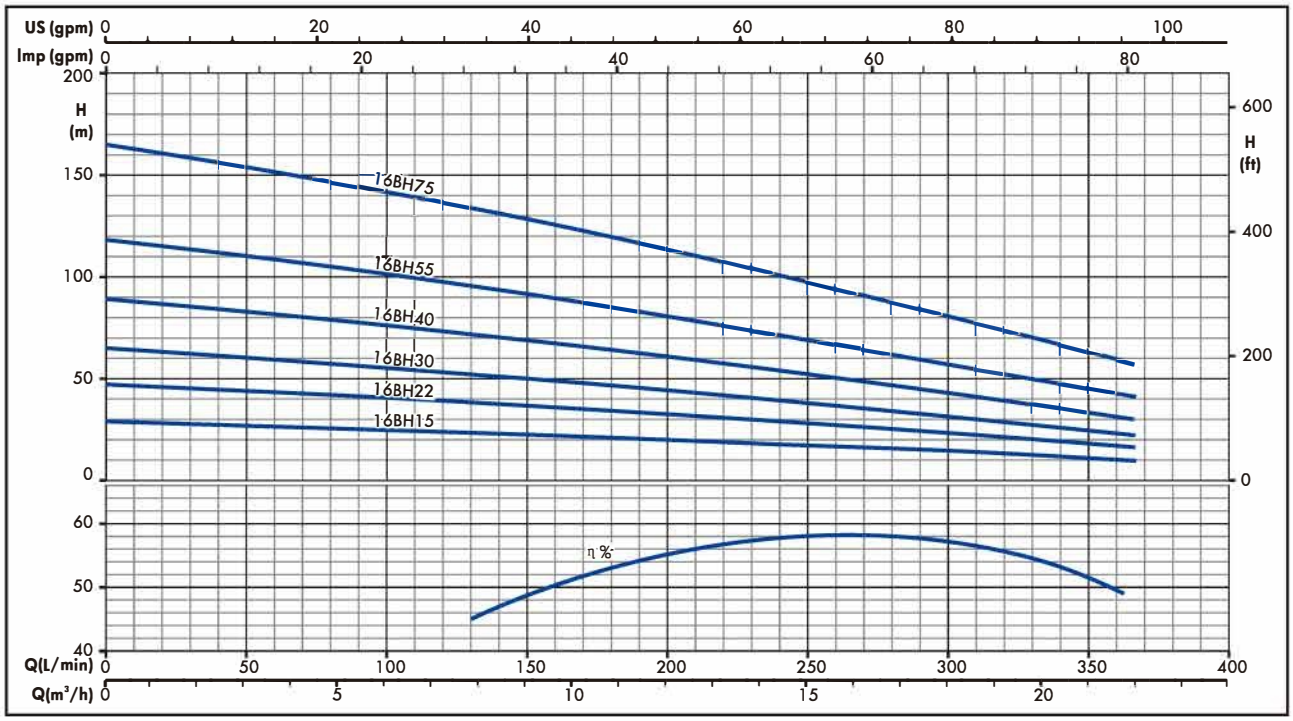
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP Weight Kg	ELECTRIC PUMP Weight Kg
12BH11S	5	Rp2"	437	831	3,2	14,3
12BH11T				841		13,9
12BH15S	8		593	1030	4,7	17,7
12BH15T				1040		17,2
12BH22S	11		749	1297	6,1	23,8
12BH22T				1293		23,3
12BH30T	15		994	1598	8,5	29
12BH40T	20		1254	1904	10,8	33,6
12BH55T	27		1655	2425	14,7	43,1
12BH75T	36		2123	3008	19	53



16BH SERIES

OPERATING CHARACTERISTICS AT 50 Hz

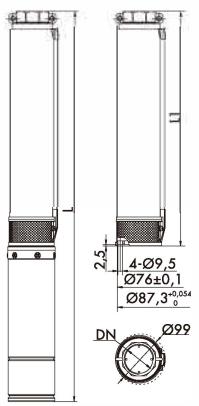


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min 0	140	160	200	250	300	367
				m³/h 0	8,4	9,6	12	15	18	22
				H=TOTAL HEAD METERS COLUMN OF WATER						
16BH15S	5	1,5	2,0	29	23	22	20	17	14	10
16BH15T										
16BH22S	8	2,2	3,0	47	37	36	32	27	23	16
16BH22T										
16BH30T	11	3,0	4,0	65	51	49	44	38	31	22
16BH40T	15	4,0	5,5	89	70	67	60	51	43	30
16BH55T	20	5,5	7,5	118	97	89	80	69	57	41
16BH75T	28	7,5	10	165	131	125	112	96	80	57

DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP Weight Kg	ELECTRIC PUMP Weight Kg
16BH15S	5	Rp2"	517	951	4,1	17,1
16BH15T				961		16,6
16BH22S	8		721	1269	6,0	23,7
16BH22T				1265		23,2
16BH30T	11		962	1566	8,4	28,9
16BH40T	15		1234	1884	10,9	33,7
16BH55T	20		1611	2381	13,7	42,1
16BH75T	28		2155	3040	18,8	52,9



BM SERIES 4" SUBMERSIBLE ELECTRIC PUMPS

*COST-EFFECTIVE VERSION

- Cost-effective submersible electric pumps ensure low cost, high efficiency, better performance and reliability.

APPLICATIONS

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

SPECIFICATIONS

- Delivery: up to 22 m^3/h at 2850 rpm.
- Head: up to130 m at 2850 rpm.
- Maximum pump overall diameter (cable cover included): 99 mm.
- Maximum permissible quantity of sand:150 g/m^3.
- 2BM , 4BM , 6BM versions: delivery port Rp1"1/4.
- 8BM , 12BM , 16BM versions: delivery port Rp2".

MOTOR

- 4OS single-phase version:
  from 0,25 to 2,2 kW, 220 V, 50 Hz.
- 4OS three-phase version:
  from 0,37 to 2,2 kW, 220 V, 50 Hz.
  from 0,37 to 3,0 kW, 380 V, 50 Hz.
- Horizontal operation: 4OS up to 2,2 kW.
- Maximum temperature of water in contact with motor: 35°C .

CONSTRUCTION & CHARACTERISTICS

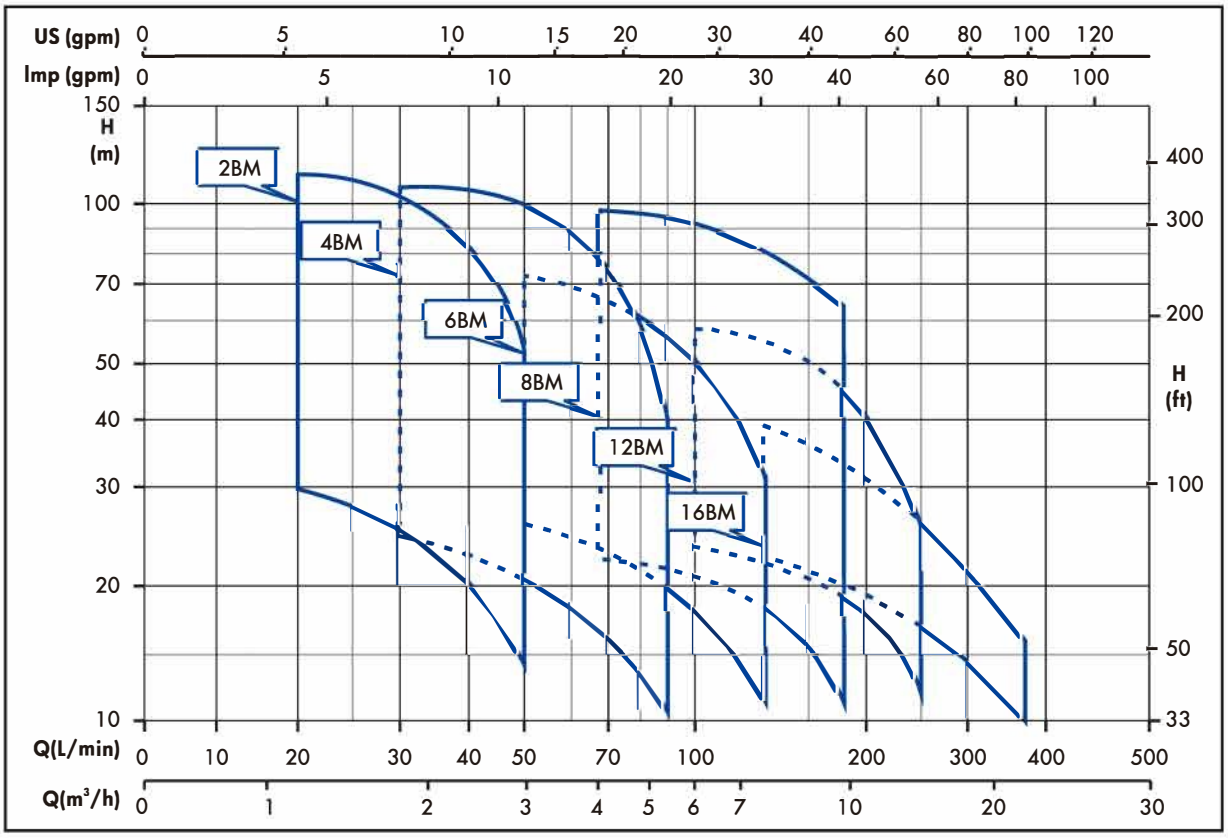
- Cost-effective construction ensures low cost , high efficiency, better performance and reliability.
- Abrasion resistant construction, Floating impellers ensure optimum resistance to abrasion.
- The delivery port and suction support are made of precision-cast stainless steel, guarantee resistance to corrosion, durability and a sturdy coupling to the motor.
- The hexagonal pump shaft guarantees an effective impeller driving.
- A non-return valve is fitted at the discharge to prevent back flow of water and alleviate water hammer to the pump, thus safeguarding impellers and diffusers.
- The BM series pumps can be coupled with the 4OS motors.
- Vertical and horizontal installation .
- Standard and special versions available.

OPTIONAL FEATURES

- Different voltages and frequencies.
- Different materials.

BM SERIES

HYDRAULIC PERFORMANCE RANGE AT 50 Hz



IDENTIFICATION CODE

4	BM	11	S

- S: MOTOR S = SINGLE-PHASE; T = THREE-PHASE
- 11: MOTOR POWER IN KW x 10
- BM: "BM" SERIES 4" SUBMERSIBLE ELECTRIC PUMP
- 4: FLOW RATE IN m^3/h

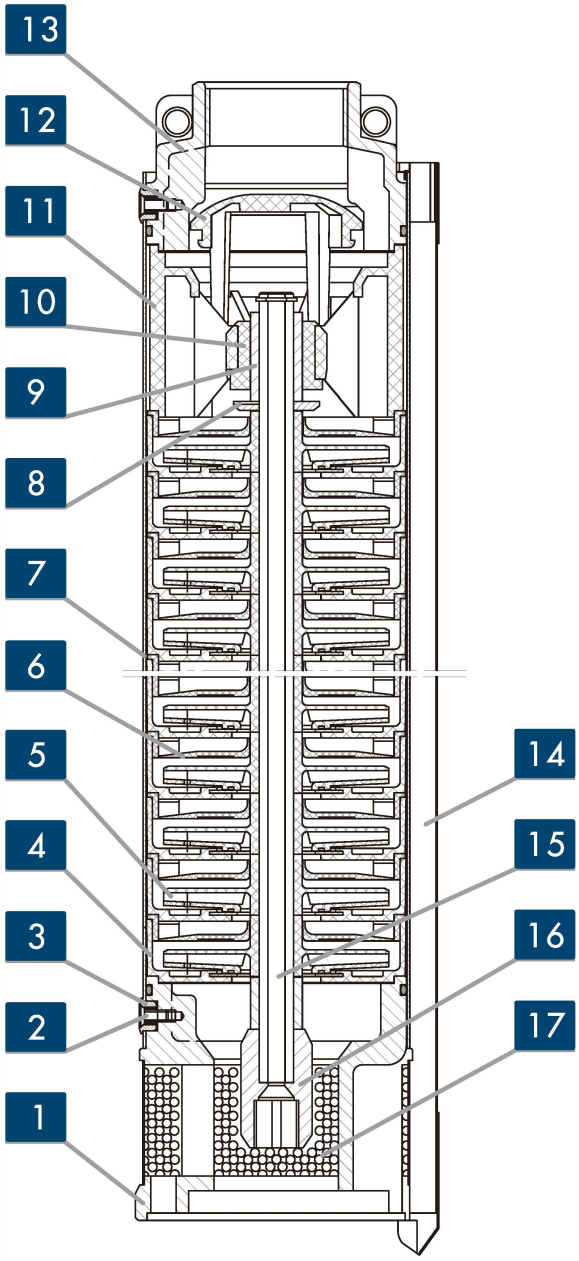
EXAMPLE OF PUMP TYPE

4BM11S

BM series 4"submersible electric pump with flow rate of 4 m^3/h; with single-phase 1,1 kW (1,5 Hp) motor.

2BM-4BM SERIES

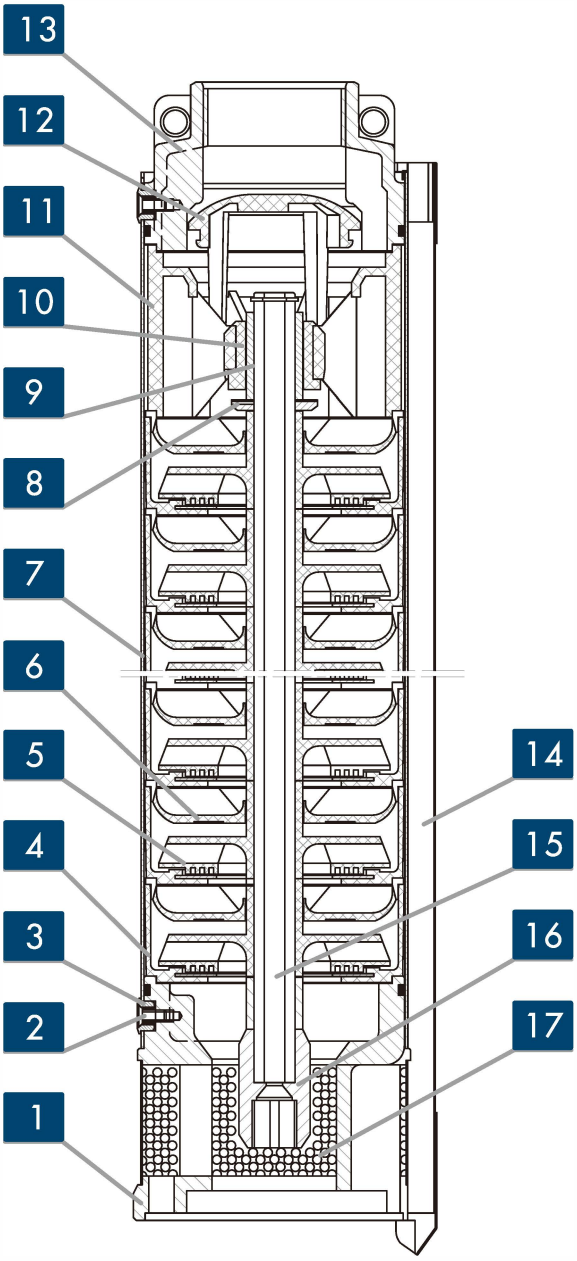
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel	AISI 304
2	Screw	Stainless steel	AISI 304
3	Pin	Stainless steel	AISI 304
4	Stage housing	ABS	------
5	Impeller	ABS	------
6	Diffuser	ABS	------
7	Outer sleeve	Stainless steel	AISI 304
8	Thrust bearing	Stainless steel	AISI 304
9	Shaft sleeve	Stainless steel	AISI 304
10	Bush bearing	TPU	------
11	Upper support	ABS	------
12	Non-return valve	ABS	------
13	Delivery port	Precision-cast stainless steel	AISI 304
14	Cable guard	Stainless steel	AISI 304
15	Shaft	Stainless steel	AISI 420
16	Coupling	Stainless steel	AISI 304
17	Filter	Stainless steel	AISI 304

6BM-8BM SERIES

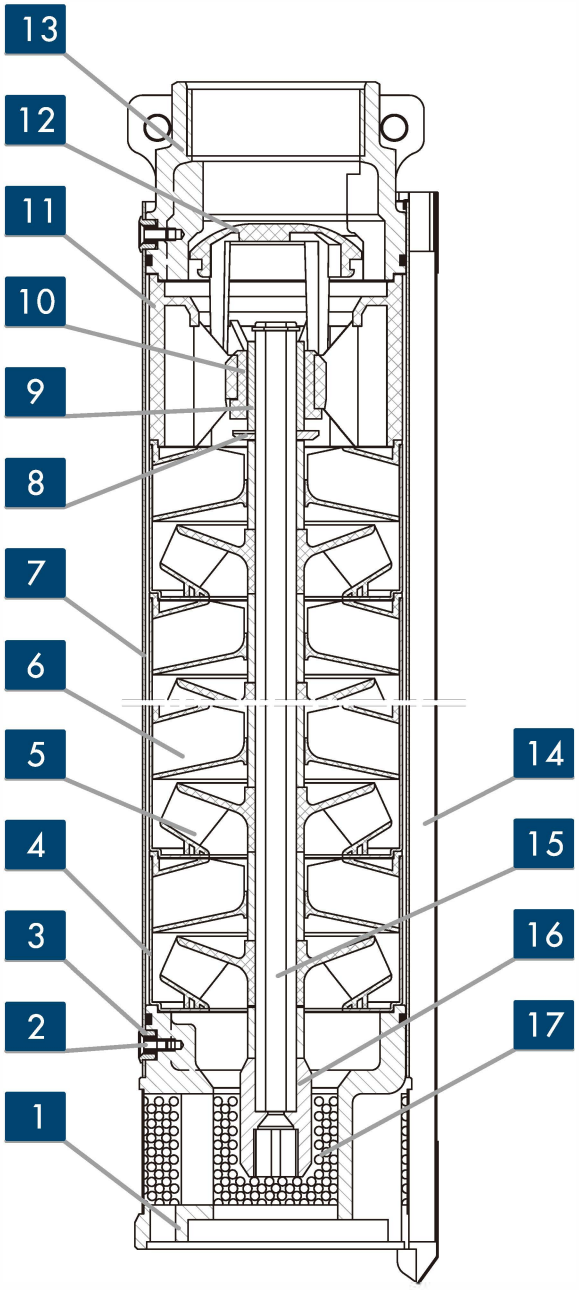
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel	AISI 304
2	Screw	Stainless steel	AISI 304
3	Pin	Stainless steel	AISI 304
4	Stage housing	ABS	------
5	Impeller	ABS	------
6	Diffuser	ABS	------
7	Outer sleeve	Stainless steel	AISI 304
8	Thrust bearing	Stainless steel	AISI 304
9	Shaft sleeve	Stainless steel	AISI 304
10	Bush bearing	TPU	------
11	Upper support	ABS	------
12	Non-return valve	ABS	------
13	Delivery port	Precision-cast stainless steel	AISI 304
14	Cable guard	Stainless steel	AISI 304
15	Shaft	Stainless steel	AISI 420
16	Coupling	Stainless steel	AISI 304
17	Filter	Stainless steel	AISI 304

12BM SERIES

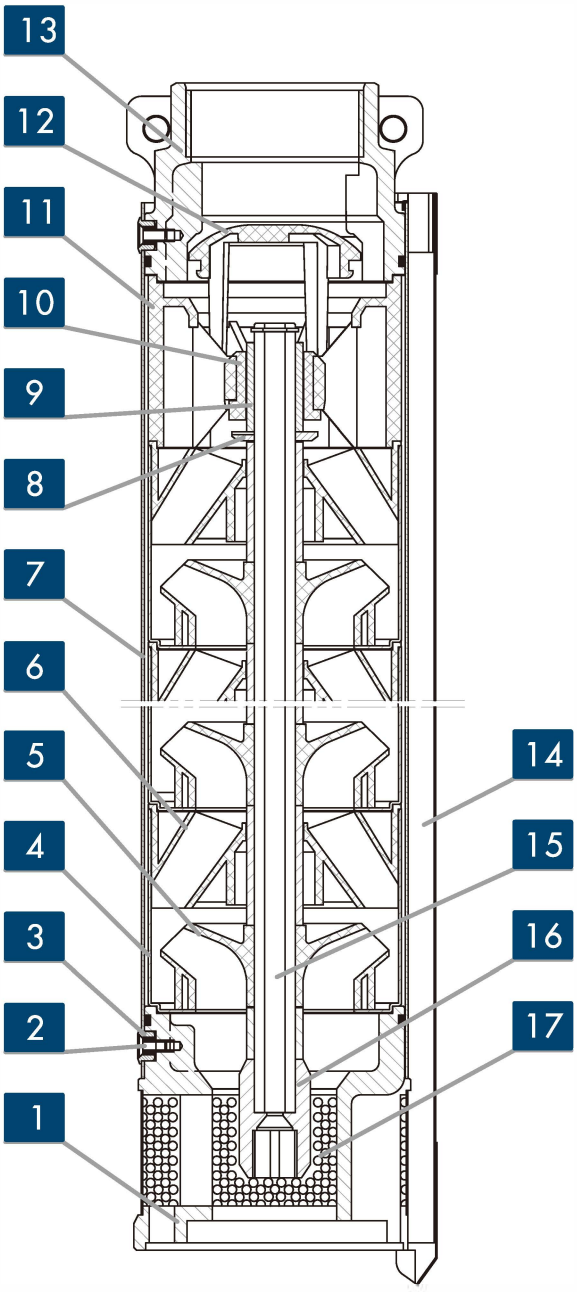
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel	AISI 304
2	Screw	Stainless steel	AISI 304
3	Pin	Stainless steel	AISI 304
4	Stage housing	ABS	------
5	Impeller	ABS	------
6	Diffuser	ABS	------
7	Outer sleeve	Stainless steel	AISI 304
8	Thrust bearing	Stainless steel	AISI 304
9	Shaft sleeve	Stainless steel	AISI 304
10	Bush bearing	TPU	------
11	Upper support	ABS	------
12	Non-return valve	ABS	------
13	Delivery port	Precision-cast stainless steel	AISI 304
14	Cable guard	Stainless steel	AISI 304
15	Shaft	Stainless steel	AISI 420
16	Coupling	Stainless steel	AISI 304
17	Filter	Stainless steel	AISI 304

16BM SERIES

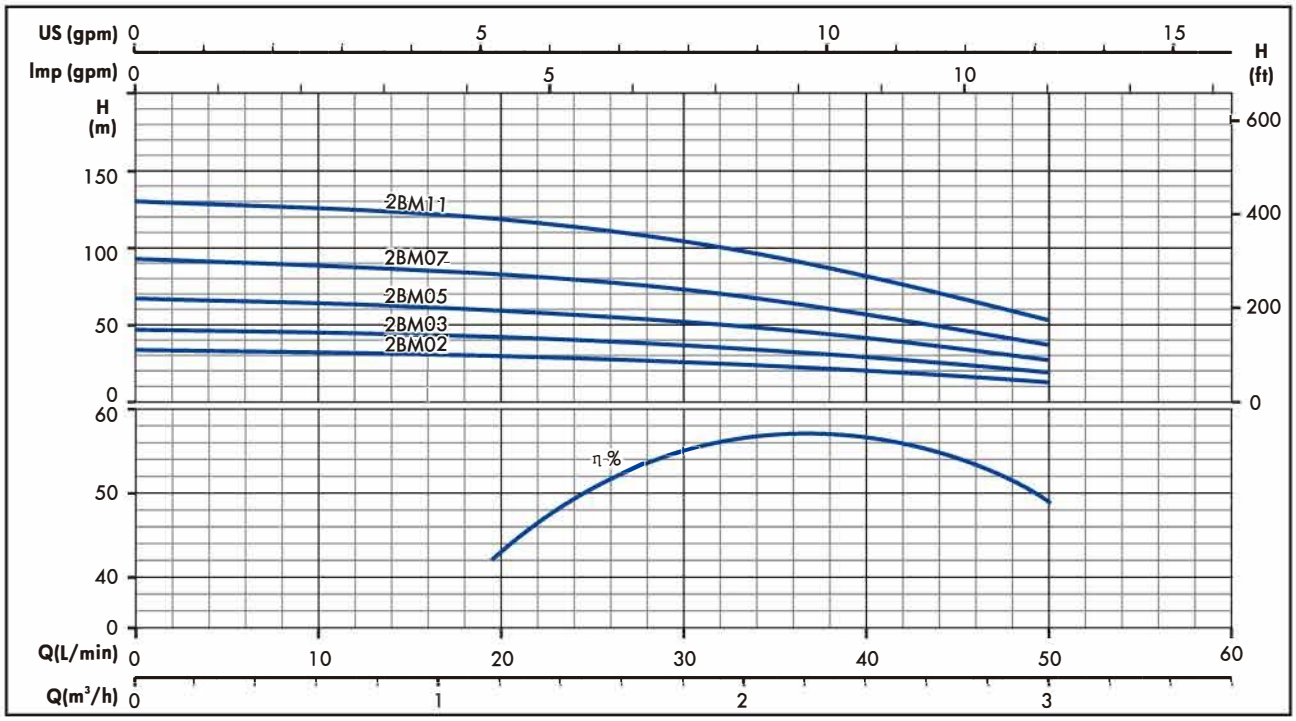
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel	AISI 304
2	Screw	Stainless steel	AISI 304
3	Pin	Stainless steel	AISI 304
4	Stage housing	ABS	------
5	Impeller	ABS	------
6	Diffuser	ABS	------
7	Outer sleeve	Stainless steel	AISI 304
8	Thrust bearing	Stainless steel	AISI 304
9	Shaft sleeve	Stainless steel	AISI 304
10	Bush bearing	TPU	------
11	Upper support	ABS	------
12	Non-return valve	ABS	------
13	Delivery port	Precision-cast stainless steel	AISI 304
14	Cable guard	Stainless steel	AISI 304
15	Shaft	Stainless steel	AISI 420
16	Coupling	Stainless steel	AISI 304
17	Filter	Stainless steel	AISI 304

2BM SERIES

OPERATING CHARACTERISTICS AT 50 Hz

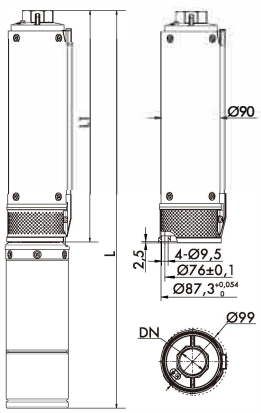


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min 0	20	25	30	40	50
				m³/h 0	1,2	1,5	1,8	2,4	3
				H=TOTAL HEAD METERS COLUMN OF WATER					
2BM02S	5	0,25	0,33	33	30	28	26	20	13
2BM03S	7	0,37	0,5	47	42	40	36	29	19
2BM03T									
2BM05S	10	0,55	0,7	67	60	56	52	41	27
2BM05T									
2BM07S	14	0,75	1,0	93	83	79	73	57	37
2BM07T									
2BM11S	20	1,1	1,5	130	119	113	104	82	53
2BM11T									

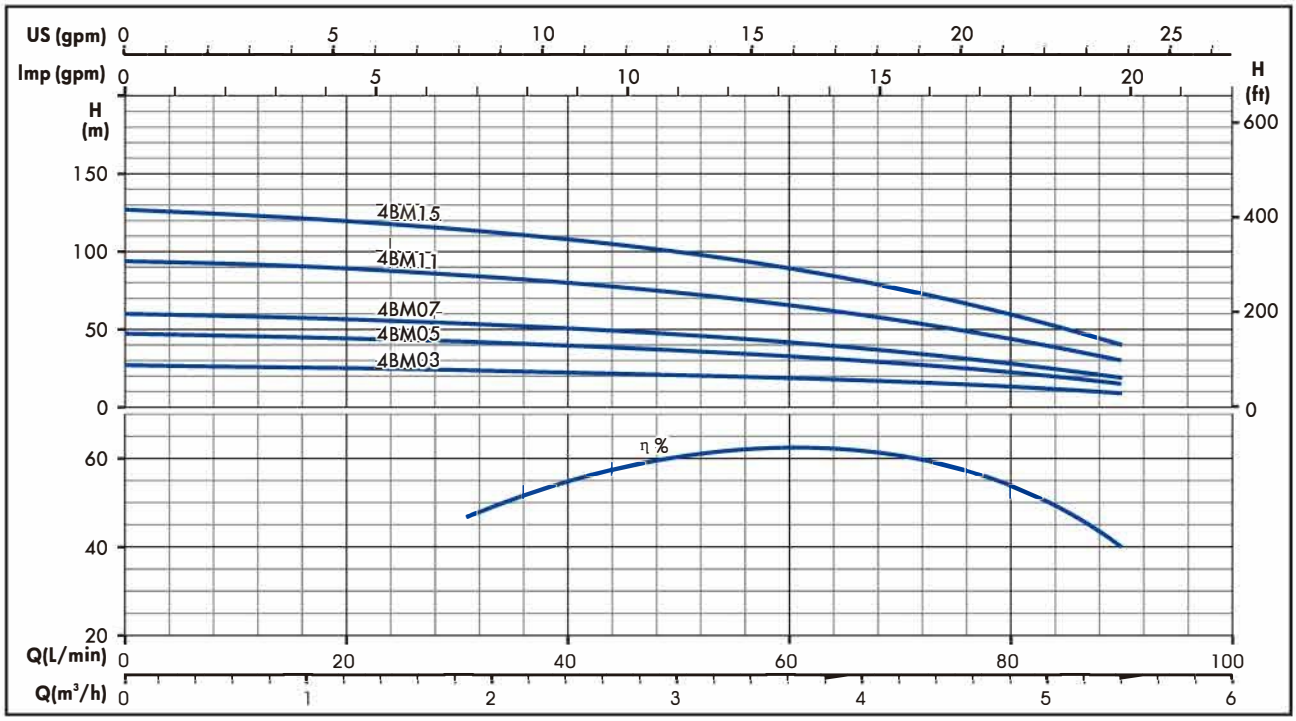
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP Weight Kg	ELECTRIC PUMP Weight Kg
2BM02S	5	Rp1"1/4	296	612	2,6	10,2
2BM03S	7		337	663	2,8	10,9
2BM03T				668		10,5
2BM05S	10		398	739	3,3	12
2BM05T				744		11,5
2BM07S	14		481	842	3,8	13,5
2BM07T				847		13
2BM11S	20		604	996	4,7	15,6
2BM11T				1006		15,3



4BM SERIES

OPERATING CHARACTERISTICS AT 50 Hz

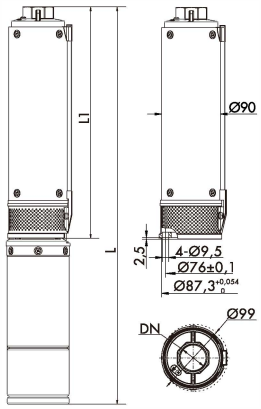


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min 0	30	40	50	60	80	90
				m³/h 0	1,8	2,4	3	3,6	4,8	5,4
				H=TOTAL HEAD METERS COLUMN OF WATER						
4BM03S	4	0,37	0,5	27	24	23	21	19	13	9
4BM03T										
4BM05S	7	0,55	0,7	47	42	40	37	33	22	15
4BM05T										
4BM07S	9	0,75	1,0	60	54	51	47	42	28	19
4BM07T										
4BM11S	14	1,1	1,5	94	84	80	74	66	44	30
4BM11T										
4BM15S	19	1,5	2,0	127	114	108	100	89	60	40
4BM15T										

DIMENSIONS AND WEIGHTS AT 50 Hz

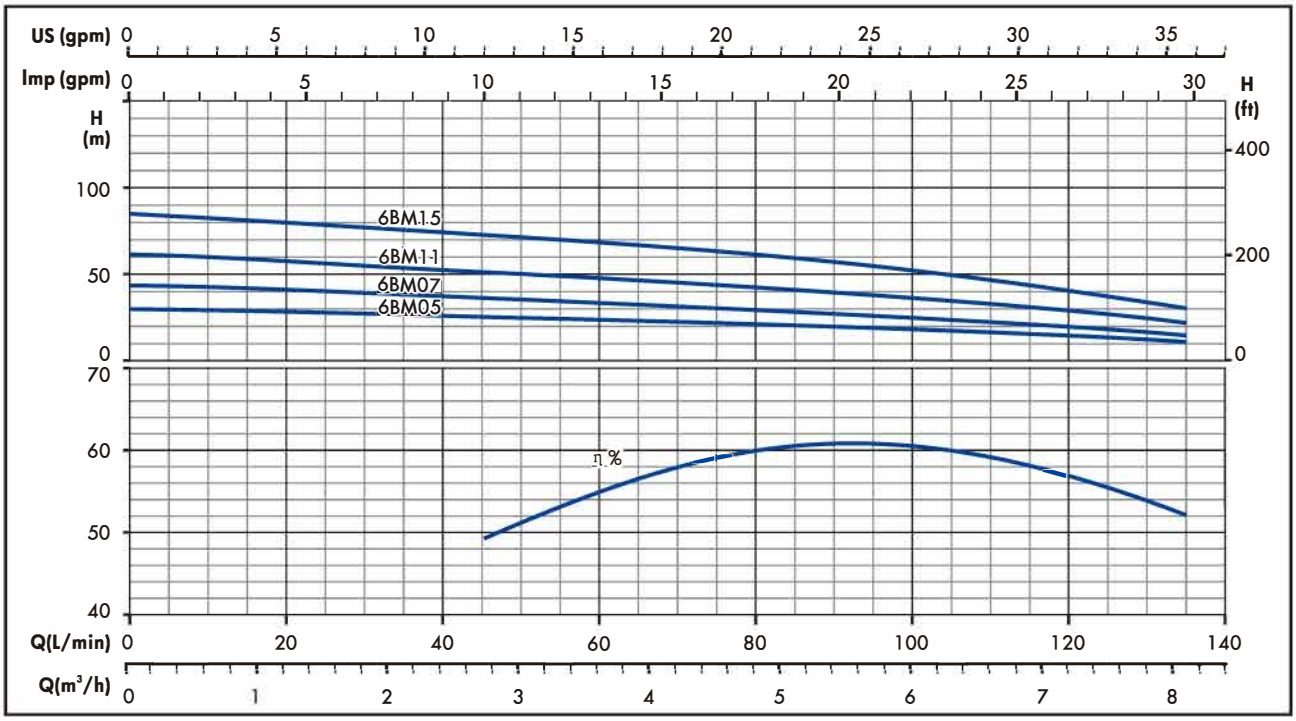
PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP Weight Kg	ELECTRIC PUMP Weight Kg
4BM03S	4	Rp1"1/4	295	624	2,5	10,6
4BM03T				629		10,1
4BM05S	7		372	716	3	11,8
4BM05T				721		11,3
4BM07S	9		423	787	3,4	13
4BM07T				792		12,6
4BM11S	14		550	945	4,3	15,2
4BM11T				955		14,9
4BM15S	19		678	1113	5,6	18,5
4BM15T				1123		18



SISTEMA

6BM SERIES

OPERATING CHARACTERISTICS AT 50 Hz

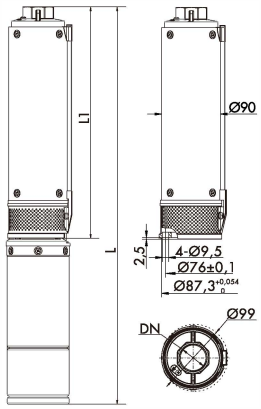


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min 0	60	75	90	105	120	135
				m³/h 0	3,6	4,5	5,4	6,3	7,2	8,1
				H=TOTAL HEAD METERS COLUMN OF WATER						
6BM05S	5	0,55	0,7	30	25	23	20	18	15	11
6BM05T										
6BM07S	7	0,75	1,0	43	35	32	28	24	20	15
6BM07T										
6BM11S	10	1,1	1,5	61	49	46	41	35	30	22
6BM11T										
6BM15S	14	1,5	2,0	85	69	64	57	50	41	31
6BM15T										

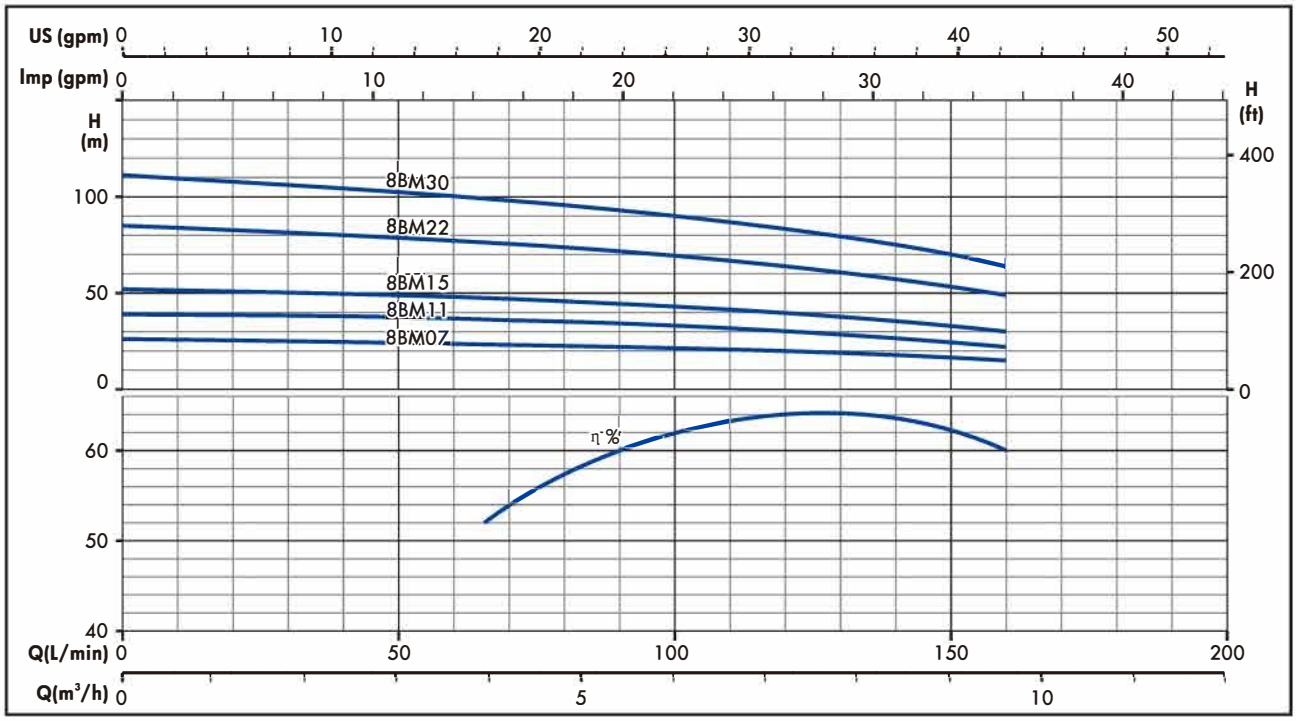
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP Weight Kg	ELECTRIC PUMP Weight Kg
6BM05S	5	Rp1"1/4	358	702	3	11,7
6BM05T				707		11,2
6BM07S	7		424	788	3,4	13
6BM07T				793		12,6
6BM11S	10		523	918	4,1	15
6BM11T				928		14,7
6BM15S	14		655	1090	4,9	17,8
6BM15T				1100		17,3



8BM SERIES

OPERATING CHARACTERISTICS AT 50 Hz

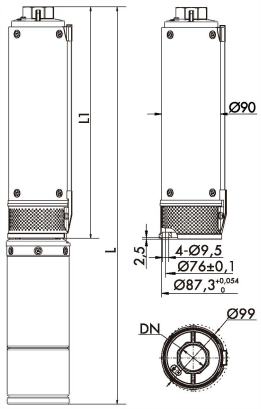


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min 0	60	80	100	120	140	160
				m³/h 0	3,6	4,8	6	7,2	8,4	9,6
				H=TOTAL HEAD METERS COLUMN OF WATER						
8BM07S	4	0,75	1,0	26	23	22	21	20	18	15
8BM07T										
8BM11S	6	1,1	1,5	39	35	34	32	29	27	22
8BM11T										
8BM15S	8	1,5	2,0	52	47	45	43	39	35	30
8BM15T										
8BM22S	13	2,2	3,0	85	76	73	69	64	57	49
8BM22T										
8BM30T	17	3,0	4,0	111	100	95	90	83	75	64

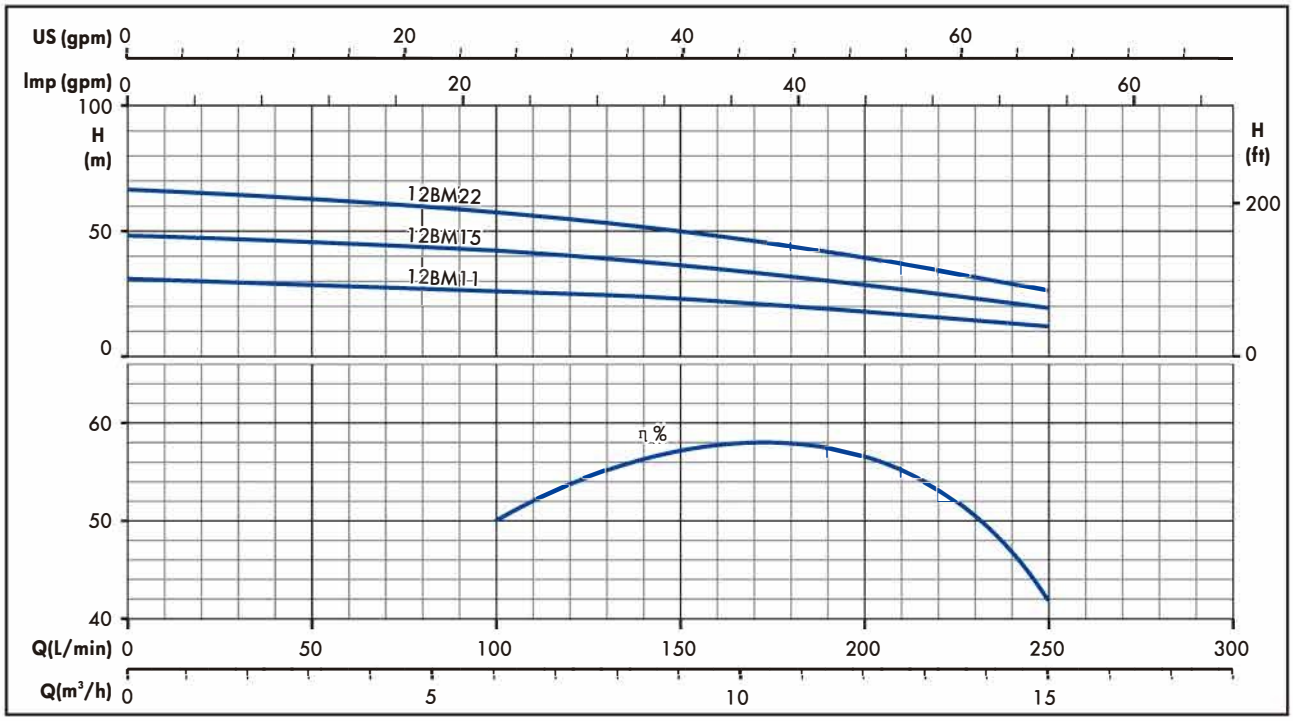
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP Weight Kg	ELECTRIC PUMP Weight Kg
8BM07S	4	Rp2"	325	689	2,7	12,4
8BM07T				694		11,9
8BM11S	6		391	786	3,2	14,1
8BM11T				796		13,8
8BM15S	8		457	892	3,6	16,5
8BM15T				902		16
8BM22S	13		622	1169	4,7	22,3
8BM22T				1144		21,8
8BM30T	17		754	1351	5,6	26



12BM SERIES

OPERATING CHARACTERISTICS AT 50 Hz

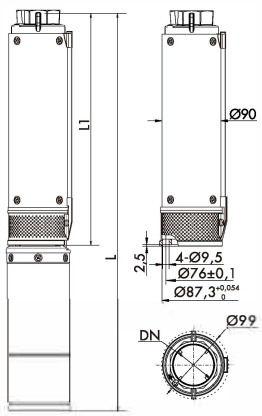


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min 0	100	120	140	160	200	250
				m³/h 0	6	7,2	8,4	9,6	12	15
				H=TOTAL HEAD METERS COLUMN OF WATER						
12BM11S	5	1,5	2,0	31	26	25	24	21	18	12
12BM11T										
12BM15S	8	1,5	2,0	49	42	40	38	34	29	19
12BM15T										
12BM22S	11	2,2	3,0	67	58	55	52	47	40	26
12BM22T										

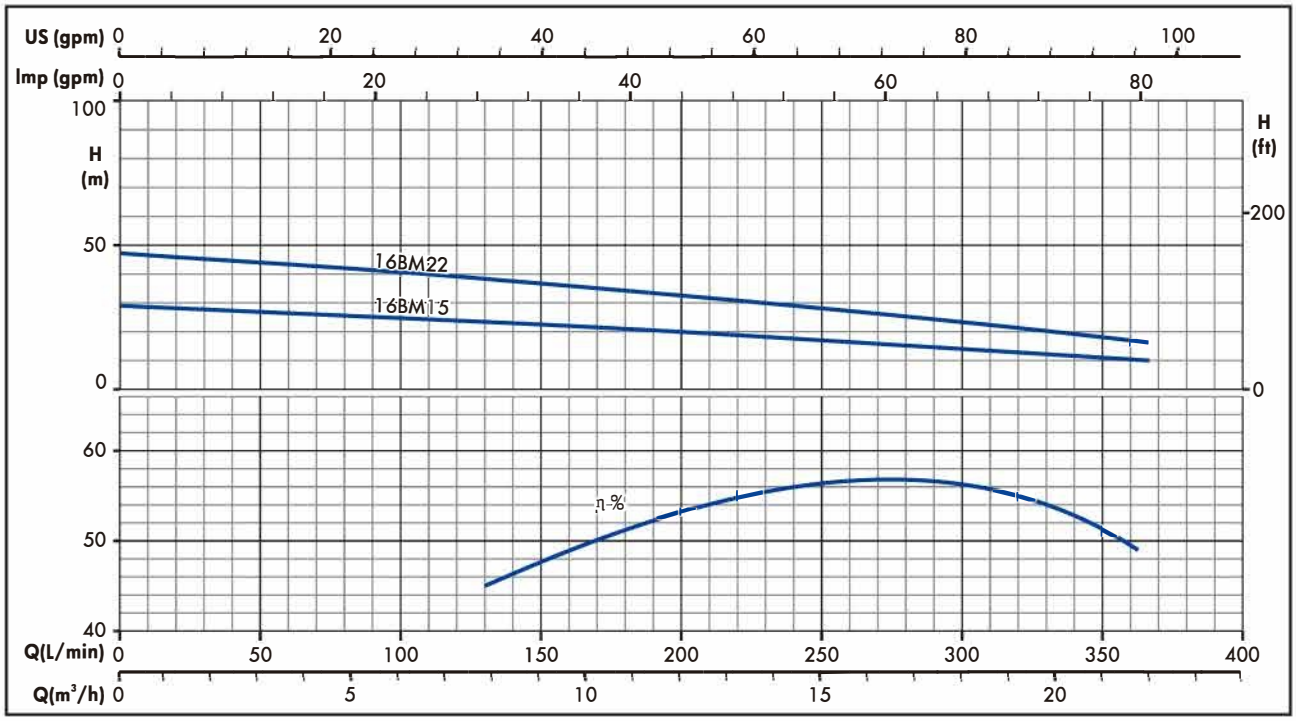
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP Weight Kg	ELECTRIC PUMP Weight Kg
12BM11S	5	Rp2"	463	858	3,9	14,9
12BM11T				868		14,5
12BM15S	8		619	1054	5,2	18
12BM15T				1064		17,5
12BM22S	11		776	1323	6,4	23,9
12BM22T				1298		23,5



16BM SERIES

OPERATING CHARACTERISTICS AT 50 Hz

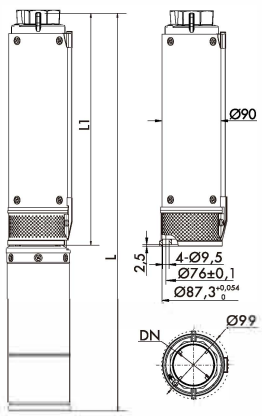


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min 0	140	160	200	250	300	367
				m³/h 0	8,4	9,6	12	15	18	22
				H=TOTAL HEAD METERS COLUMN OF WATER						
16BM15S	5	2,2	3,0	29	23	22	20	17	14	10
16BM15T										
16BM22S	8	2,2	3,0	47	37	36	32	27	23	16
16BM22T										

DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP Weight Kg	ELECTRIC PUMP Weight Kg
16BM15S	5	Rp2"	543	978	4,4	17,3
16BM15T				988		16,8
16BM22S	8		747	1294	6	23,6
16BM22T				1269		23,8



SP SERIES 4" SUBMERSIBLE PUMPS

- Made completely of corrosion-resistant AISI 304 stainless steel, SP 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 19 m^3/h at 2850 rpm.
- Head: up to 400 m at 2850 rpm.
- Maximum overall diameter of pump: 94 mm (cable guard included).
- Maximum permissible quantity of suspended sand: 150 g/m^3.
- 1SP , 2SP , 3SP , 5SP versions: delivery port Rp1"1/4.
- 8SP , 14SP versions: delivery port Rp2".

MOTOR

- Motor power:
- Single-phase:
  from 0,37 to 2,2 kW, 220 V, 50 Hz.
- Three-phase:
  from 0,37 to 7,5 kW, 380 V, 50 Hz.

CONSTRUCTION & CHARACTERISTICS

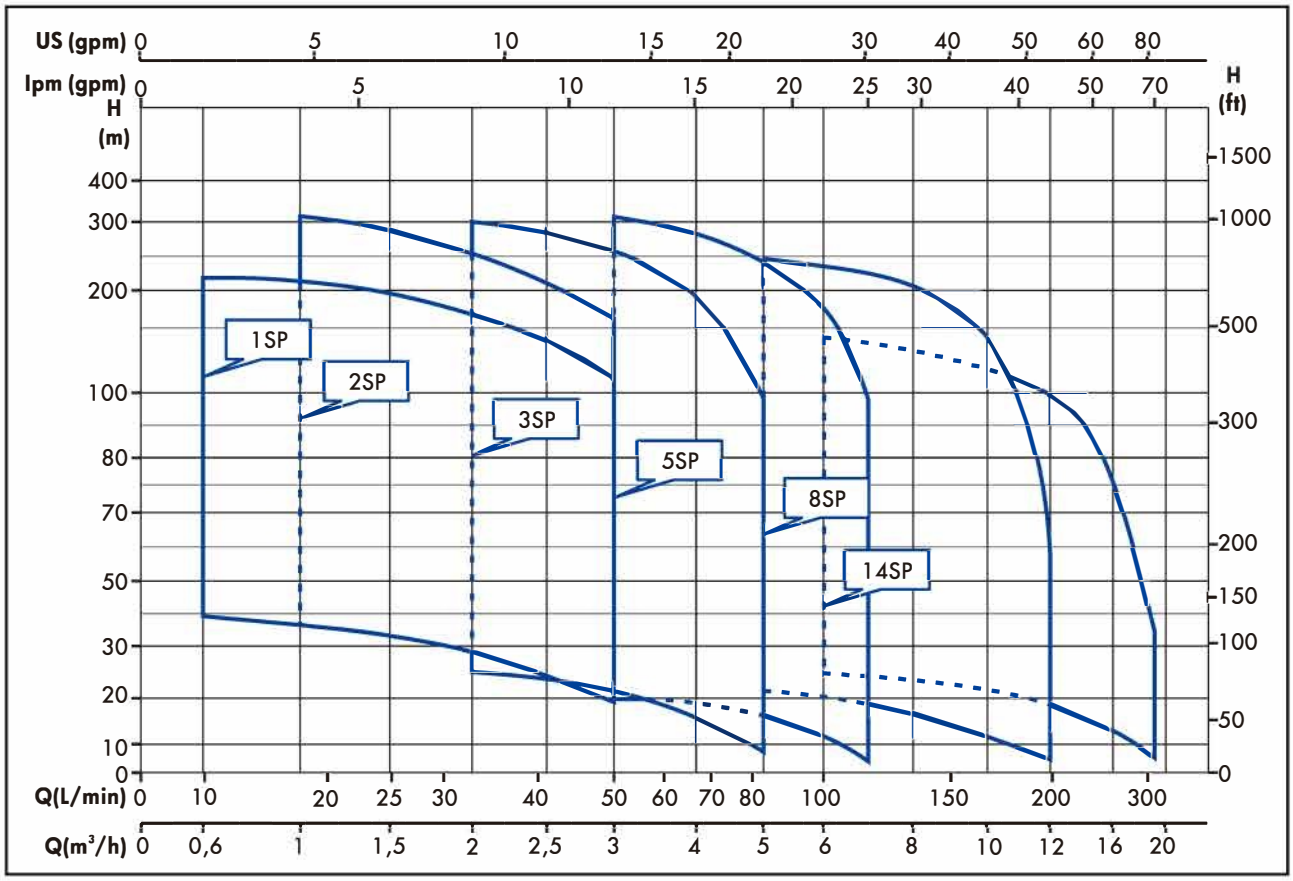
- Sturdy and lightweight, easy to maintain and resistant to corrosion in non-aggressive environments.
- High efficient hydraulic design for cost saving and best performance.
- Stainless steel built-in non-return valve.
- Stainless steel impellers and diffusers.
- Stainless steel delivery port and suction support.
- Stainless steel shaft and replaceable coupling.
- Stainless steel floating wear ring & NBR bush bearings ensure maximum resistance to wear and long-lasting performance and reliability.
- Coupling and flange mounting dimensions meet NEMA standards.
- The SP series pumps can be coupled with the 4OS motors.

OPTIONAL FEATURES

- Different voltages and frequencies.

SP SERIES

HYDRAULIC PERFORMANCE RANGE AT 50 Hz



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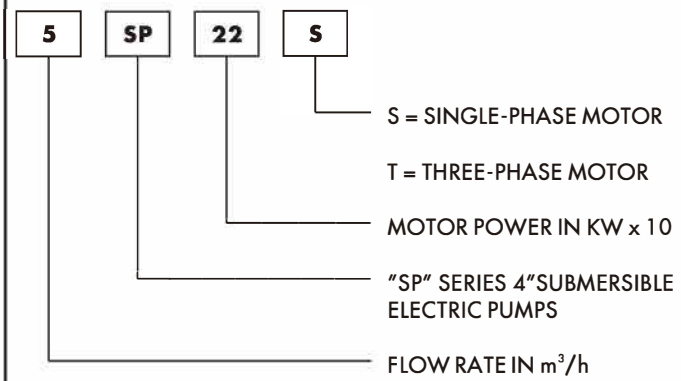


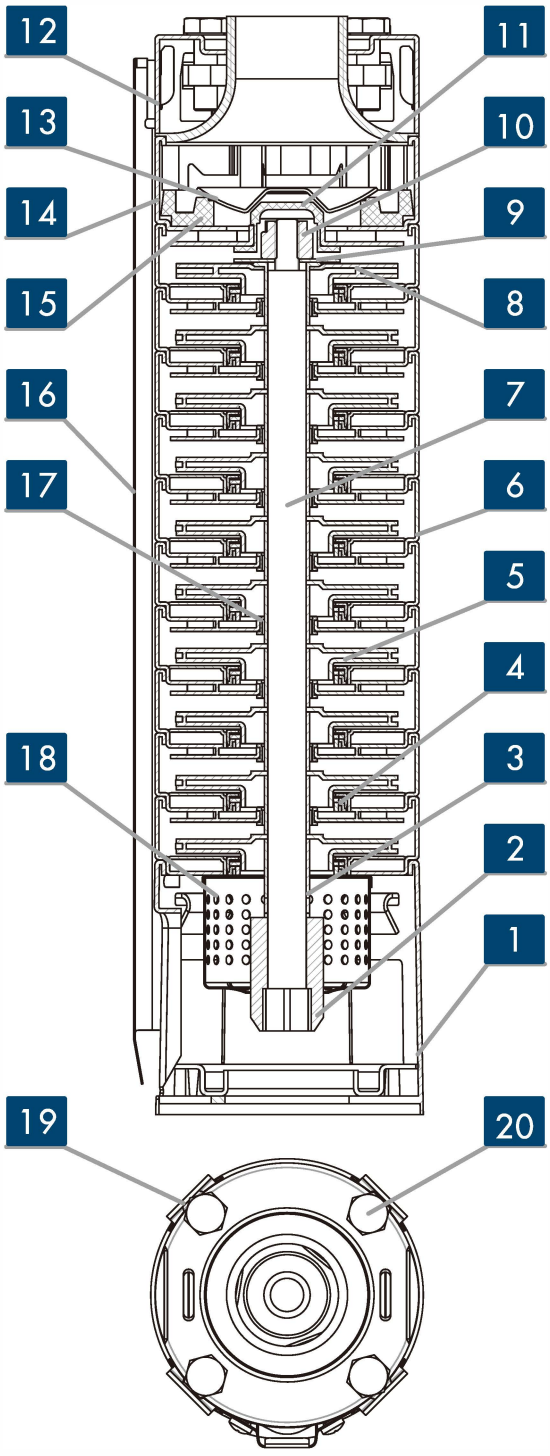
EXAMPLE OF PUMP TYPE

5SP22S

SP series submersible electric pump; flow rate 5 m³/h; coupled to a 4" submersible motor single phase 2,2 kW (3,0 Hp).

1SP-5SP SERIES

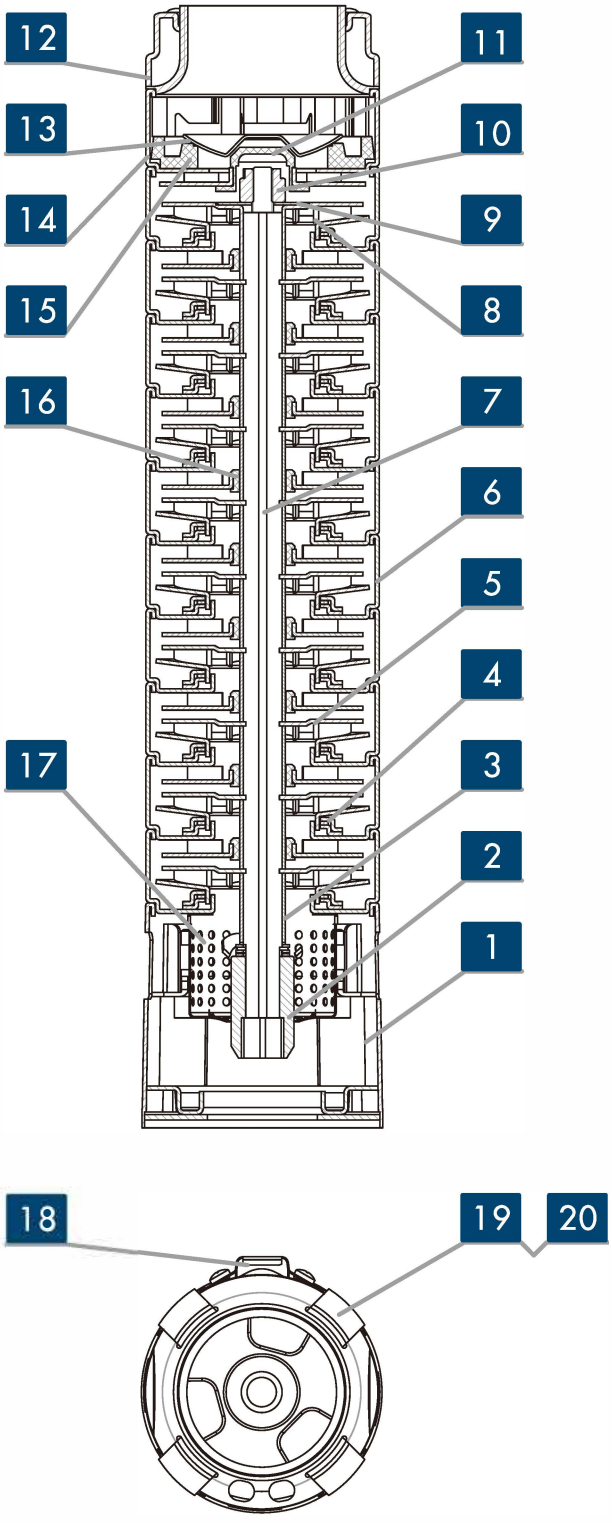
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Stainless steel	AISI 304
2	Coupling	Stainless steel	AISI 304
3	Shafe Sleeve	Stainless steel	AISI 304
4	Neck Ring	NBR	------
5	Impeller	Stainless steel	AISI 304
6	Diffuser	Stainless steel	AISI 304
7	Shaft	Stainless steel	AISI 304
8	End-stage Impeller	Stainless steel	AISI 304
9	Thrust Washer	Stainless steel	AISI 304
10	Nut	Stainless steel	------
11	Thrust Bearing	NBR	AISI 304
12	Delivery Port	Stainless steel	AISI 304
13	Non-return valve	Stainless steel	AISI 304
14	End-stage diffuser	Stainless steel	AISI 304
15	Valve Support	NBR	------
16	Cable Guard	Stainless steel	AISI 304
17	Bush bearing	NBR	------
18	Suction Inlet	Stainless steel	AISI 304
19	Strap	Stainless steel	AISI 304
20	Bolt	Stainless steel	AISI 304

8SP SERIES

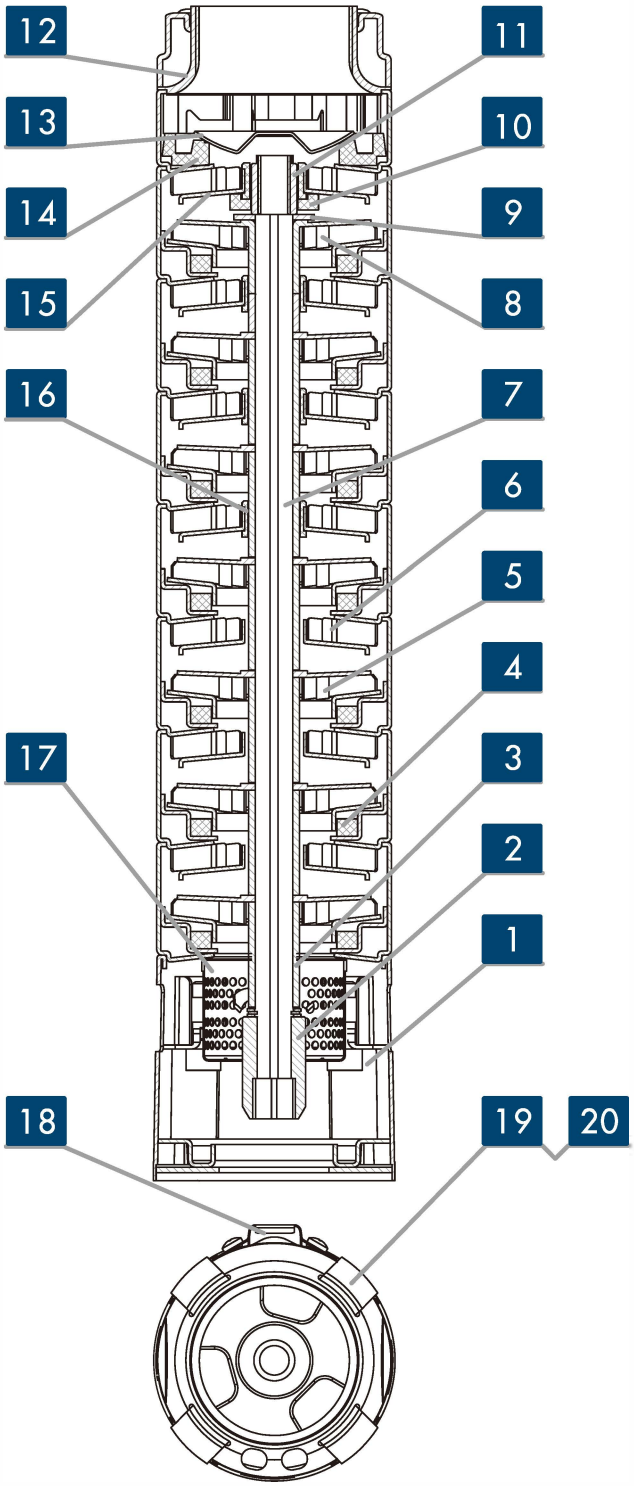
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Stainless steel	AISI 304
2	Coupling	Stainless steel	AISI 304
3	Shaft sleeve	Stainless steel	AISI 304
4	Neck ring	NBR	------
5	Impeller	Stainless steel	AISI 304
6	Diffuser	Stainless steel	AISI 304
7	Shaft	Stainless steel	AISI 304
8	End-stage impeller	Stainless steel	AISI 304
9	Thrust washer	Stainless steel	AISI 304
10	Nut	Stainless steel	AISI 304
11	Thrust bearing	NBR	------
12	Delivery port	Stainless steel	AISI 304
13	Non-return valve	Stainless steel	AISI 304
14	End-stage diffuser	Stainless steel	AISI 304
15	Valve support	NBR	------
16	Bush bearing	NBR	------
17	Suction inlet	Stainless steel	AISI 304
18	Cable guard	Stainless steel	AISI 304
19	Strap	Stainless steel	AISI 304
20	Bolt	Stainless steel	AISI 304

14SP SERIES

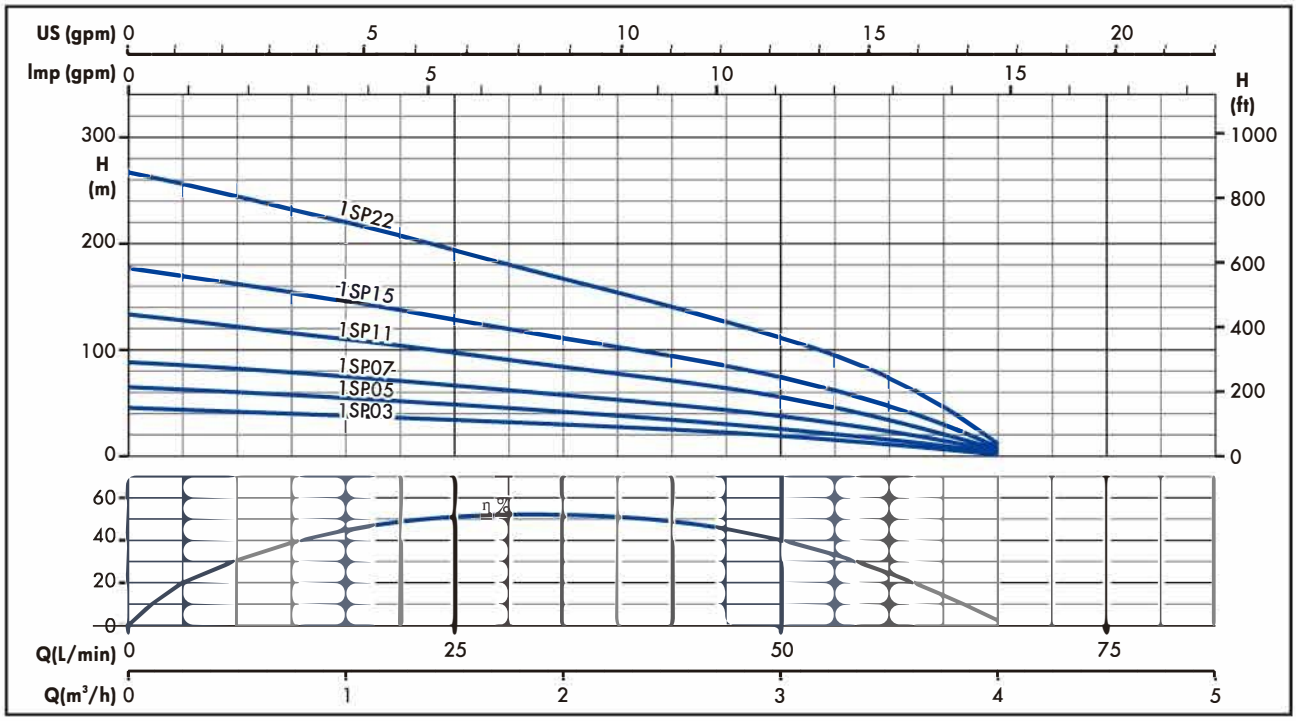
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Stainless steel	AISI 304
2	Coupling	Stainless steel	AISI 304
3	Shaft Sleeve	Stainless steel	AISI 304
4	Neck Ring	Stainless steel	AISI 304
5	Impeller	Stainless steel	AISI 304
6	Diffuser	Stainless steel	AISI 304
7	Shaft	Stainless steel	AISI 304
8	End-stage Impeller	Stainless steel	AISI 304
9	Thrust Washer	Stainless steel	AISI 304
10	Thrust Bearing	PTFE	------
11	Nut	Stainless steel	AISI 304
12	Delivery Port	Stainless steel	AISI 304
14	Non-return valve	Stainless steel	AISI 304
13	Valve Support	NBR	------
15	End-stage diffuser	Stainless steel	AISI 304
16	Bush bearing	NBR	------
17	Suction Inlet	Stainless steel	AISI 304
18	Cable Guard	Stainless steel	AISI 304
19	Strap	Stainless steel	AISI 304
20	Bolt	Stainless steel	AISI 304

1SP SERIES

OPERATING CHARACTERISTICS AT 50 Hz

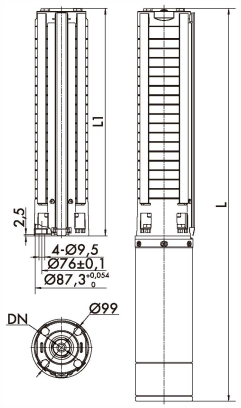


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY L/min 0	10	17	25	33	40	50	67
				m³/h 0	0.6	1	1.5	2	2.5	3	4
				H=TOTAL HEAD METERS COLUMN OF WATER							
1SP03S 1SP03T	7	0,37	0,5	45	39	37	32	29	24	19	1
1SP05S 1SP05T	10	0,55	0,75	64	56	52	47	41	34	28	1
1SP07S 1SP07T	14	0,75	1,0	88	78	73	66	57	48	38	2
1SP11S 1SP11T	21	1,1	1,5	135	117	110	99	83	72	58	2
1SP15S 1SP15T	28	1,5	2,0	178	157	147	133	110	96	75	3
1SP22S 1SP22T	42	2,2	3,0	268	235	220	194	166	145	112	5

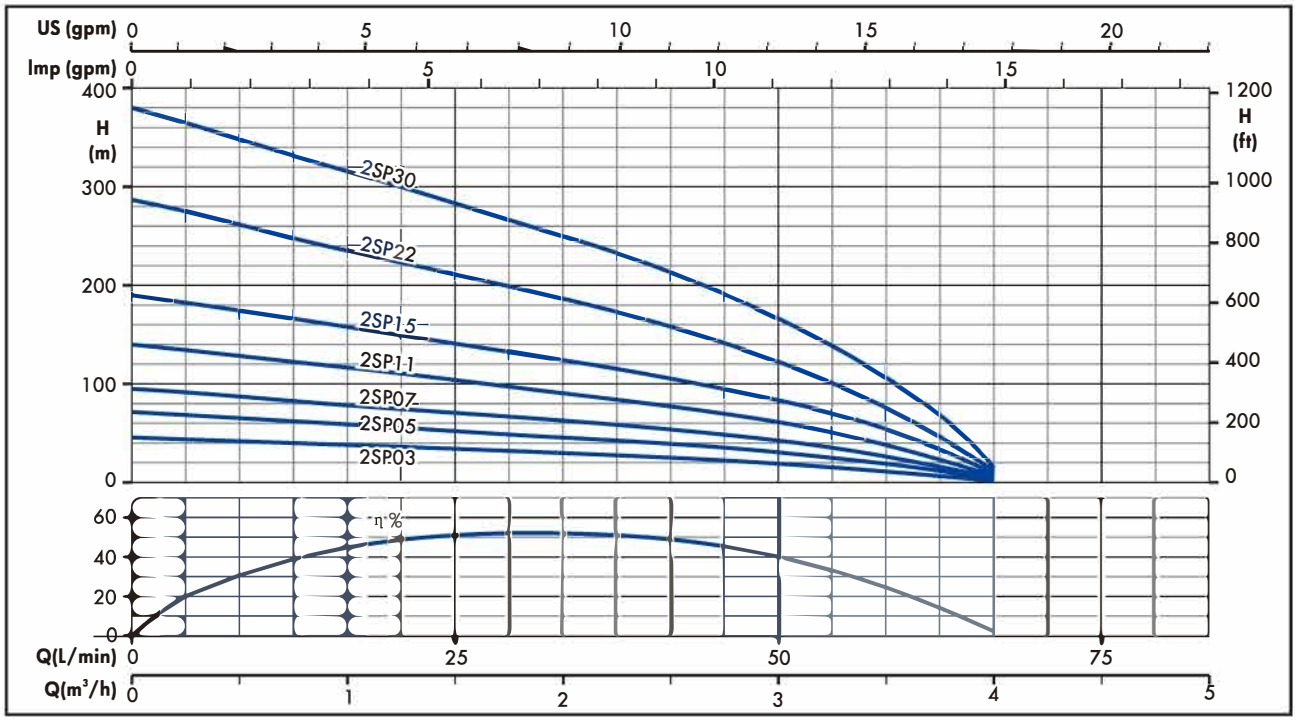
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L1 mm	L mm	PUMP WEIGHT Kg	ELECTRIC PUMP WEIGHT Kg
1SP03S	7	Rp1"1/4	302	628	2,5	10,1
1SP03T				633		9,7
1SP05S	10		365	706	3,1	11,4
1SP05T				711		10,9
1SP07S	14		449	810	3,9	13,1
1SP07T				815		12,7
1SP11S	21		596	988	5,3	15,8
1SP11T				998		15,5
1SP15S	28		743	1175	6,7	19,1
1SP15T				1185		18,6
1SP22S	42		1037	1582	9,5	26,6
1SP22T				1557		26,2



2SP SERIES

OPERATING CHARACTERISTICS AT 50 Hz

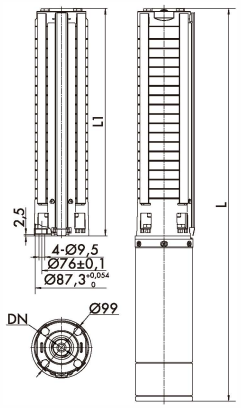


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY L/min 0	17	25	33	40	50	67
				m³/h 0	1	1.5	2	2.5	3	4
				H=TOTAL HEAD METERS COLUMN OF WATER						
2SP03S	7	0,37	0,5	44	37	32	29	25	19	1
2SP03T										
2SP05S	11	0,55	0,75	70	58	50	46	39	31	1
2SP05T										
2SP07S	15	0,75	1,0	95	78	70	63	52	42	2
2SP07T										
2SP11S	22	1,1	1,5	140	115	102	92	78	61	2
2SP11T										
2SP15S	30	1,5	2,0	190	157	140	125	106	83	3
2SP15T										
2SP22S	45	2,2	3,0	286	235	210	188	159	121	5
2SP22T										
2SP30T	60	3,0	4,0	380	313	280	251	213	167	7

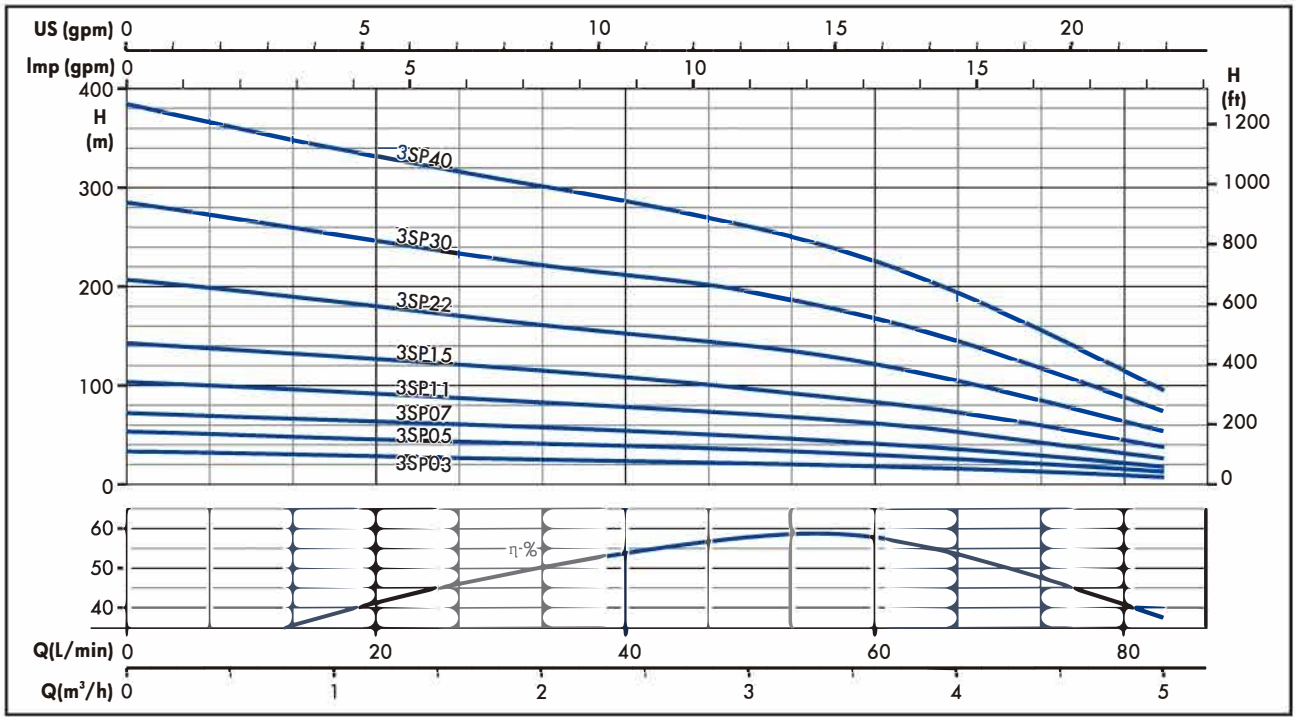
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L1 mm	L mm	PUMP WEIGHT Kg	ELECTRIC PUMP WEIGHT Kg
2SP03S	7	Rp1"1/4	302	628	2,5	10,1
2SP03T				633		9,7
2SP05S	11		386	727	3,3	11,6
2SP05T				732		11,1
2SP07S	15		470	831	4,1	13,3
2SP07T				836		12,9
2SP11S	22		617	1009	5,5	16
2SP11T				1019		15,7
2SP15S	30		785	1217	7,1	19,5
2SP15T				1227		19
2SP22S	45		1100	1645	10,1	27,2
2SP22T				1620		26,8
2SP30T	60		1415	2010	13,1	32,9



3SP SERIES

OPERATING CHARACTERISTICS AT 50 Hz

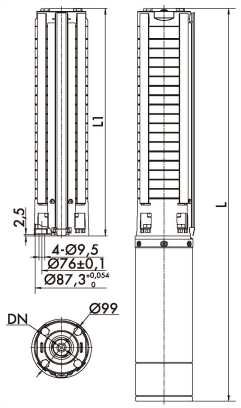


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY L/min 0	17	33	40	50	67	83
				m³/h 0	1	2	2.5	3	4	5
				H=TOTAL HEAD METERS COLUMN OF WATER						
3SP03S	5	0,37	0,5	32	29	25	23	21	16	8
3SP03T										
3SP05S	8	0,55	0,75	52	46	40	37	35	26	13
3SP05T										
3SP07S	11	0,75	1,0	71	64	58	51	49	36	18
3SP07T										
3SP11S	16	1,1	1,5	103	92	81	75	71	52	27
3SP11T										
3SP15S	22	1,5	2,0	142	130	115	103	96	72	37
3SP15T										
3SP22S	32	2,2	3,0	207	185	160	149	140	104	53
3SP22T										
3SP30T	44	3,0	4,0	285	254	220	205	195	144	73
3SP40T	59	4,0	5,5	384	340	300	275	260	194	98

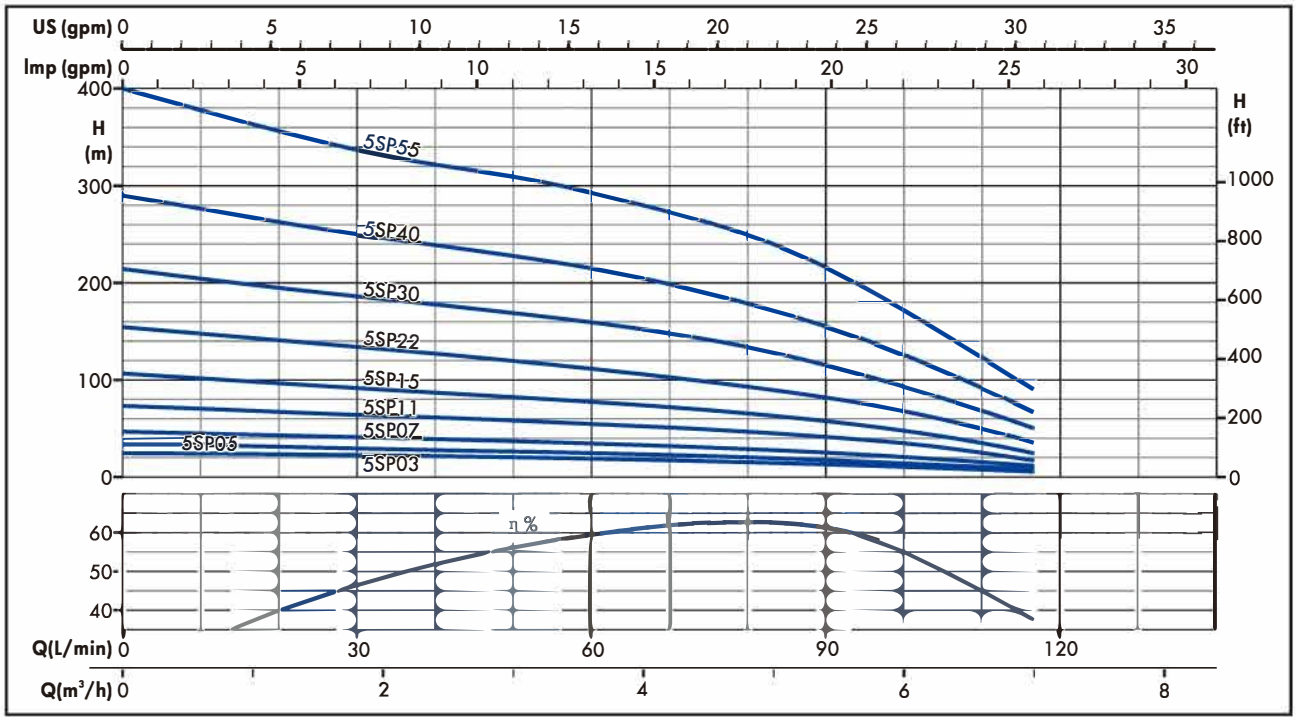
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L1 mm	L mm	PUMP WEIGHT Kg	ELECTRIC PUMP WEIGHT Kg
3SP03S	5	Rp1"1/4	260	586	2,1	9,7
3SP03T				591		9,3
3SP05S	8		323	664	2,7	11
3SP05T				669		10,5
3SP07S	11		386	747	3,3	12,5
3SP07T				752		12,1
3SP11S	16		491	883	4,3	14,8
3SP11T				893		14,5
3SP15S	22		617	1049	5,5	17,9
3SP15T				1059		17,4
3SP22S	32		827	1372	7,5	24,6
3SP22T				1347		24,2
3SP30T	44		1079	1674	9,9	29,7
3SP40T	59		1394	2038	12,9	35,0



5SP SERIES

OPERATING CHARACTERISTICS AT 50 Hz

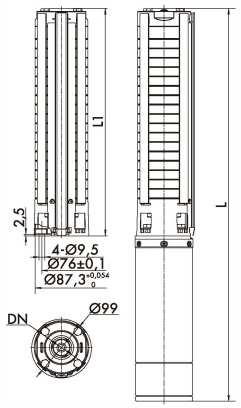


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY L/min 0	33	50	67	83	100	117
				m³/h 0	2	3	4	5	6	7
				H=TOTAL HEAD METERS COLUMN OF WATER						
5SP03S 5SP03T	4	0,37	0.5	25	23	20	19	16	12	6
5SP05S 5SP05T	5	0,55	0,75	33	30	26	24	19	15	8
5SP07S 5SP07T	7	0,75	1,0	47	40	36	33	28	21	11
5SP11S 5SP11T	11	1,1	1,5	74	62	58	52	44	33	17
5SP15S 5SP15T	16	1,5	2,0	108	90	83	76	66	48	25
5SP22S 5SP22T	23	2,2	3,0	155	132	121	109	92	68	35
5SP30T	32	3,0	4,0	217	182	170	152	128	94	49
5SP40T	43	4,0	5,5	290	243	228	204	174	128	66
5SP55T	59	5,5	7,5	400	333	312	281	240	176	91

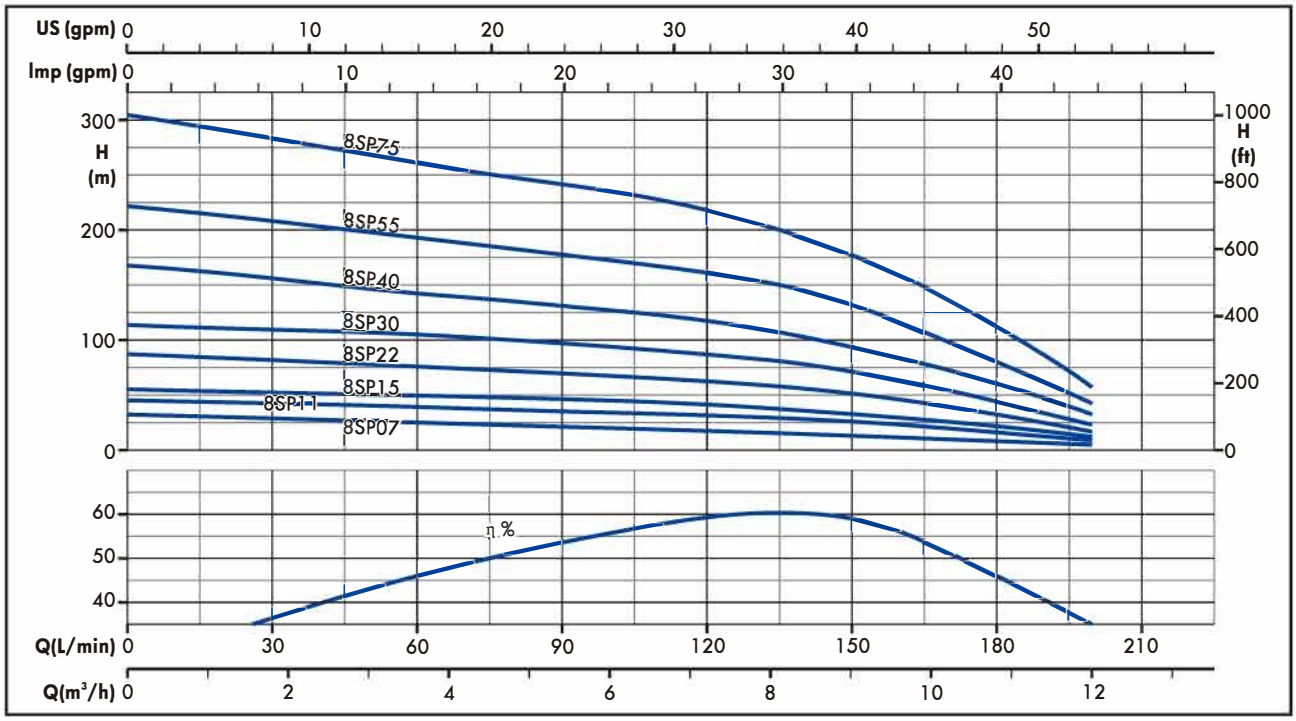
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L1 mm	L mm	PUMP WEIGHT Kg	ELECTRIC PUMP WEIGHT Kg
5SP03S	4	Rp1"1/4	239	565	1,9	9,6
5SP03T				570		9,1
5SP05S	5		260	601	2,2	10,5
5SP05T				606		10
5SP07S	7		302	663	2,6	11,8
5SP07T				668		11,4
5SP11S	11		386	778	3,4	13,9
5SP11T				788		13,6
5SP15S	16		491	923	4,5	16,9
5SP15T				933		16,4
5SP22S	23		638	1183	5,9	23,1
5SP22T				1158		22,6
5SP30T	32		827	1422	7,8	27,6
5SP40T	43		1058	1702	10,1	32,3
5SP55T	59		1394	2158	13,5	41,2



8SP SERIES

OPERATING CHARACTERISTICS AT 50 Hz

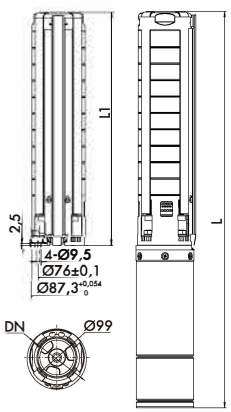


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY L/min 0	33	67	100	133	167	200
				m³/h 0	2	4	6	8	10	12
				H=TOTAL HEAD METERS COLUMN OF WATER						
8SP07S	4	0,75	1,0	26	26	21	20	17	12	5
8SP07T										
8SP11S	7	1,1	1,5	44	43	38	34	30	21	8
8SP11T										
8SP15S	9	1,5	2,0	57	54	48	44	39	27	11
8SP15T										
8SP22S	14	2,2	3,0	89	83	75	68	59	42	17
8SP22T										
8SP30T	19	3	4,0	120	113	102	94	84	57	23
8SP40T	26	4	5,5	165	155	140	128	114	78	31
8SP55T	35	5,5	7,5	222	208	188	172	155	105	42
8SP75T	48	7,5	10	305	280	258	235	210	145	58

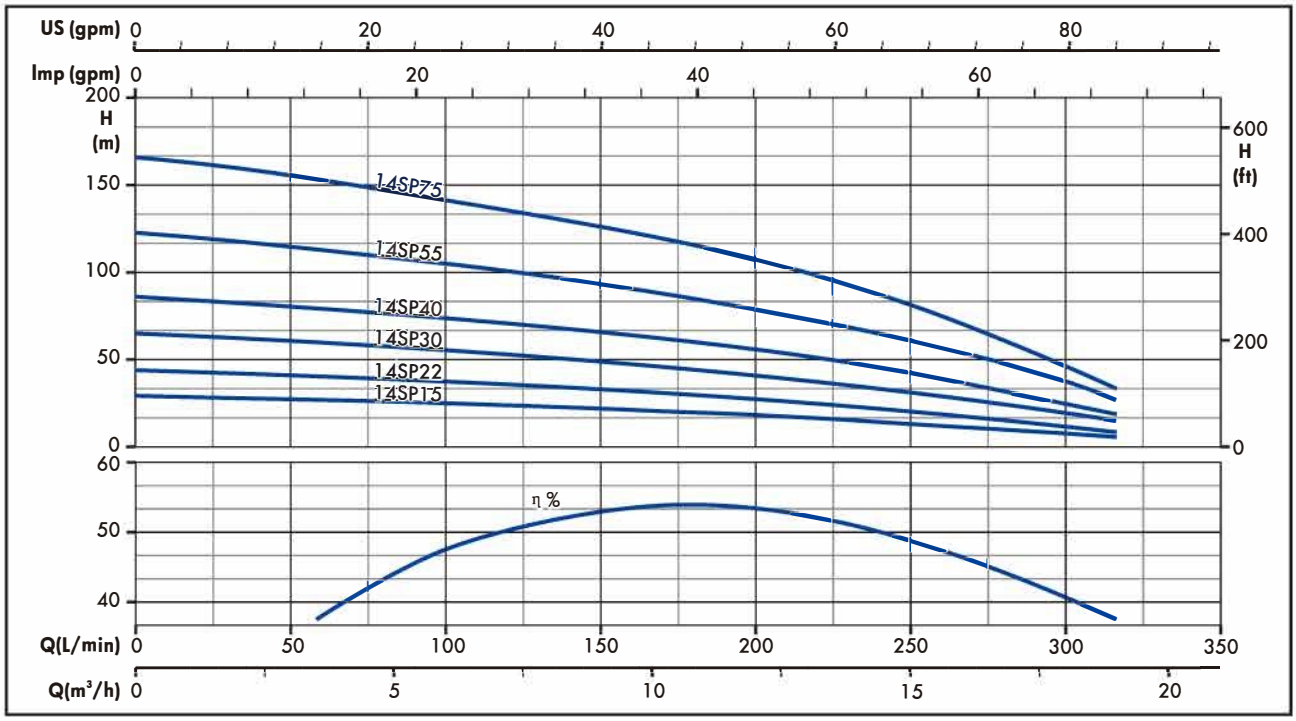
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L1 mm	L mm	PUMP WEIGHT Kg	ELECTRIC PUMP WEIGHT Kg
8SP07S	4	Rp2"	261	622	2,2	11,4
8SP07T				627		11,0
8SP11S	7		343	735	3	13,5
8SP11T				745		13,2
8SP15S	9		398	830	3,5	16,0
8SP15T				840		15,5
8SP22S	14		536	1080	4,9	22,0
8SP22T				1055		21,6
8SP30T	19		673	1268	6,2	26,0
8SP40T	26		866	1509	8,1	30,2
8SP55T	35		1113	1877	10,5	38,2
8SP75T	48		1471	2349	14,0	47,4



14SP SERIES

OPERATING CHARACTERISTICS AT 50 Hz

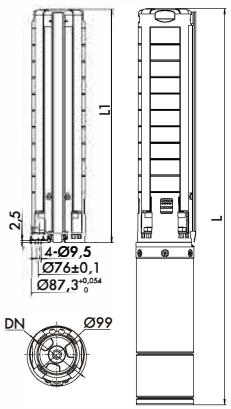


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY L/min 0	100	133	167	200	233	267	317
				m³/h 0	6	8	10	12	14	16	19
				H=TOTAL HEAD METERS COLUMN OF WATER							
14SP15S	4	1,5	2,0	29	25	23	21	19	16	12	6
14SP15T											
14SP22S	6	2,2	3,0	43	37	35	32	28	24	18	9
14SP22T											
14SP30T	9	3,0	4,0	65	55	52	48	42	36	28	14
14SP40T	12	4,0	5,5	86	74	68	63	57	47	37	19
14SP55T	17	5,5	7,5	122	104	97	90	80	68	53	27
14SP75T	23	7,5	10	166	141	132	120	108	91	72	36

DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TUPE	N.OF STAGE	DN	L1 mm	L mm	PUMP WEIGHT Kg	ELECTRIC PUMP WEIGHT Kg
14SP15S	4	Rp2"	312	744	3,1	15,5
14SP15T				754		15
14SP22S	6		396	940	4	21,1
14SP22T				915		20,7
14SP30T	9		522	1116	5,4	25,2
14SP40T	12		648	1291	6,7	28,8
14SP55T	17		858	1621	9,2	36,9
14SP75T	23		1110	1988	12	45,4



P4 SERIES 4" SUBMERSIBLE PUMPS

APPLICATIONS

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

SPECIFICATIONS

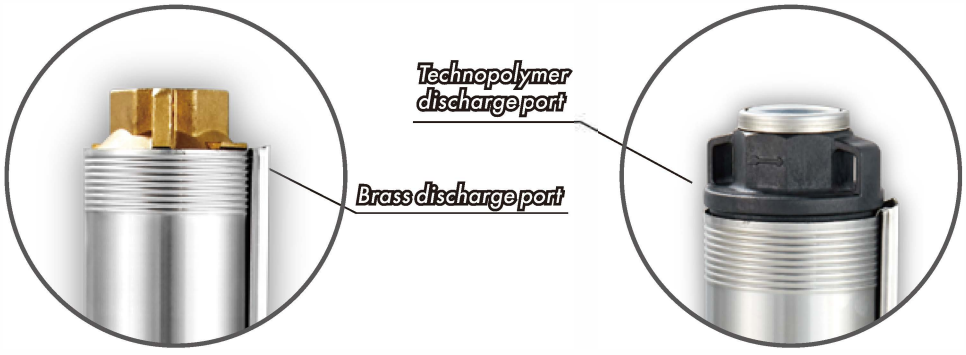
- Delivery: up to 18 m³/h at 2850 rpm.
- Head: up to 270 m at 2850 rpm.
- Maximum pump overall diameter (cable cover included): 99 mm.
- Maximum permissible quantity of sand: 150 g/m³.
- P4B,P4C versions: delivery port Rp1"1/4.
- P4D,P4K versions: delivery port Rp2".
- Maximum temperature of water in contact with motor: 35 °C.

CONSTRUCTION & CHARACTERISTICS

- Easy to maintain and rapid to install.
- The hexagonal pump shaft guarantees an effective impeller driving.
- A non-return valve is fitted at the discharge to prevent back flow of water and alleviate water hammer to the pump, thus safeguarding impellers and diffusers.
- The P4 series pumps can be coupled with the 4OS motors.
- Vertical and horizontal installation .
- Standard and special versions available.

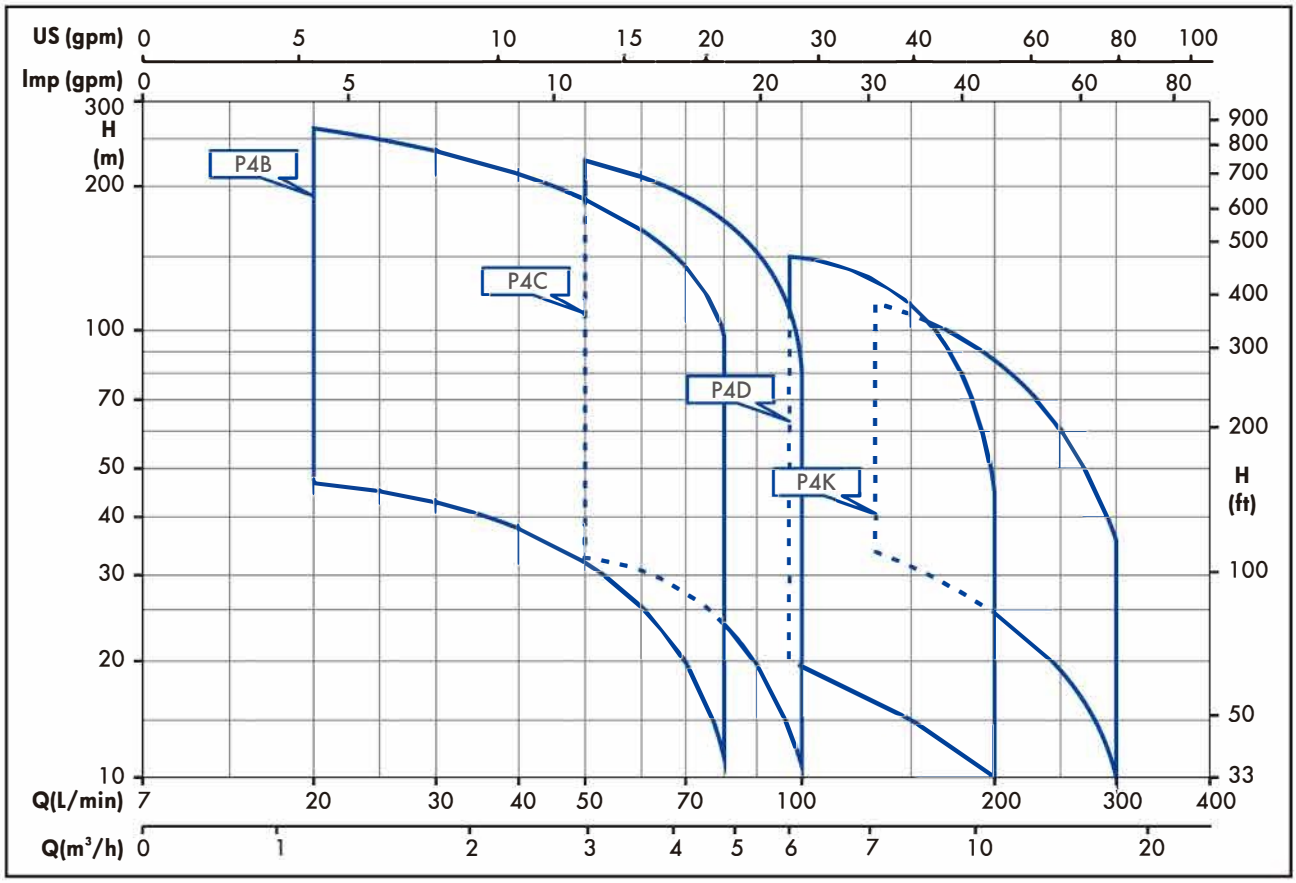
OPTIONAL FEATURES

- Different voltages and frequencies.
- Different materials.



P4 SERIES

HYDRAULIC PERFORMANCE RANGE AT 50 Hz



IDENTIFICATION CODE

P4D - **09** - **B**

- B: MATERIAL: R = TECHNOPOLYMER, B = BRASS
- 09: STAGES
- P4D: "P4D" SERIES 4"SUBMERSIBLE PUMPS

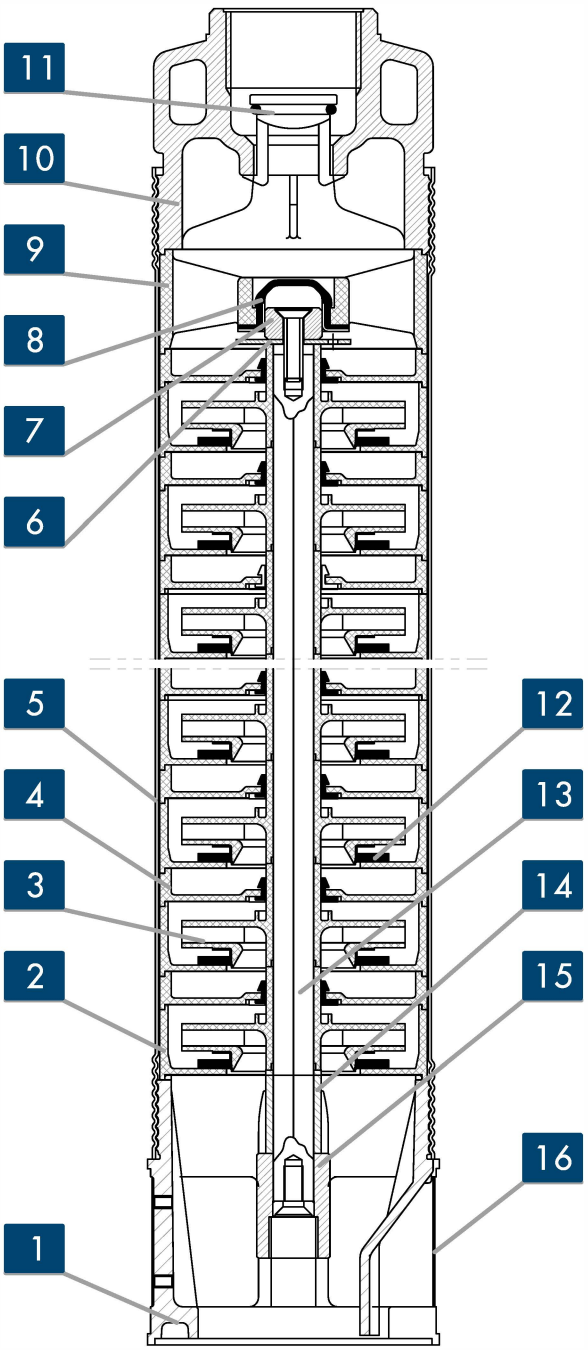
EXAMPLE OF PUMP TYPE

P4D-09-B

P4D series 4"submersible pumps, 9 stages, brass discharge port.

P4B-C SERIES

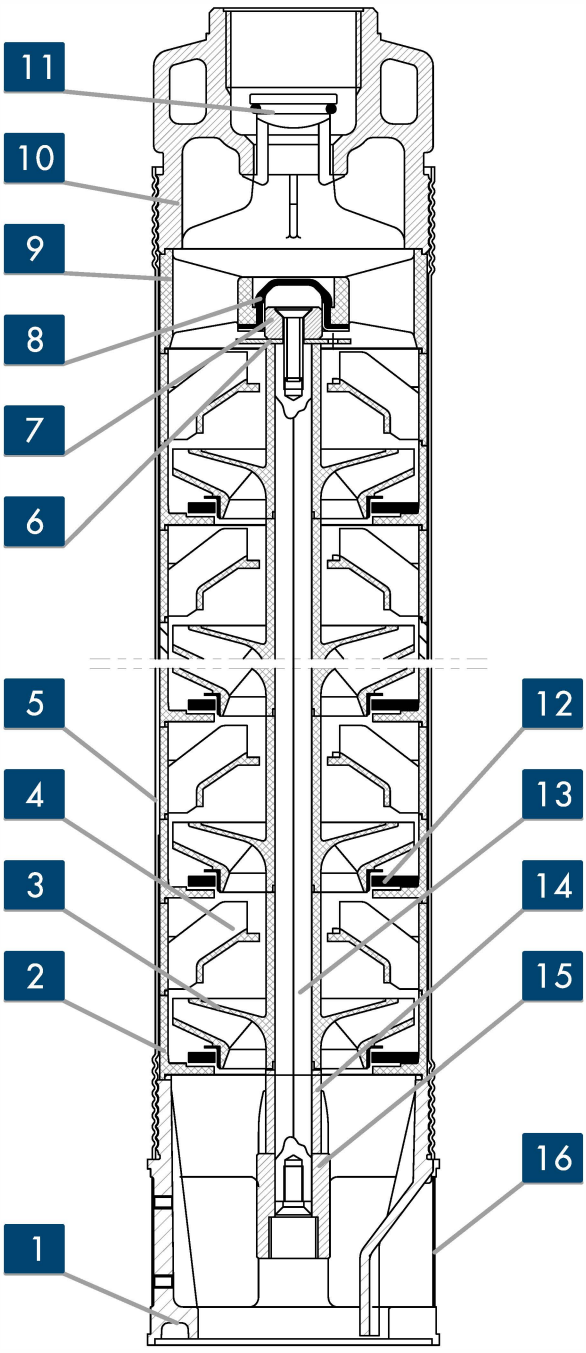
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Technopolymer /Brass	------ /ASTM C37700
2	Stage housing	Noryl® PPO	------
3	Impeller	POM	------
4	Diffuser	Noryl® PPO	------
5	Pump sleeve	Stainless steel	AISI 304
6	Thrust bearing	Stainless steel	AISI 304
7	Shaft sleeve	Stainless steel	AISI 304
8	Rubber bearing	TPU	------
9	Upper support	Noryl® PPO	------
10	Delivery port	Technopolymer /Brass	------ /ASTM C37700
11	Non-return valve	Derlin® POM	------
12	Neck ring	POM	------
13	Shaft	Stainless steel	AISI 304
14	Shaft sleeve	Stainless steel	AISI 304
15	Coupling	Stainless steel	AISI 316
16	Filter	Stainless steel	AISI 304

P4D SERIES

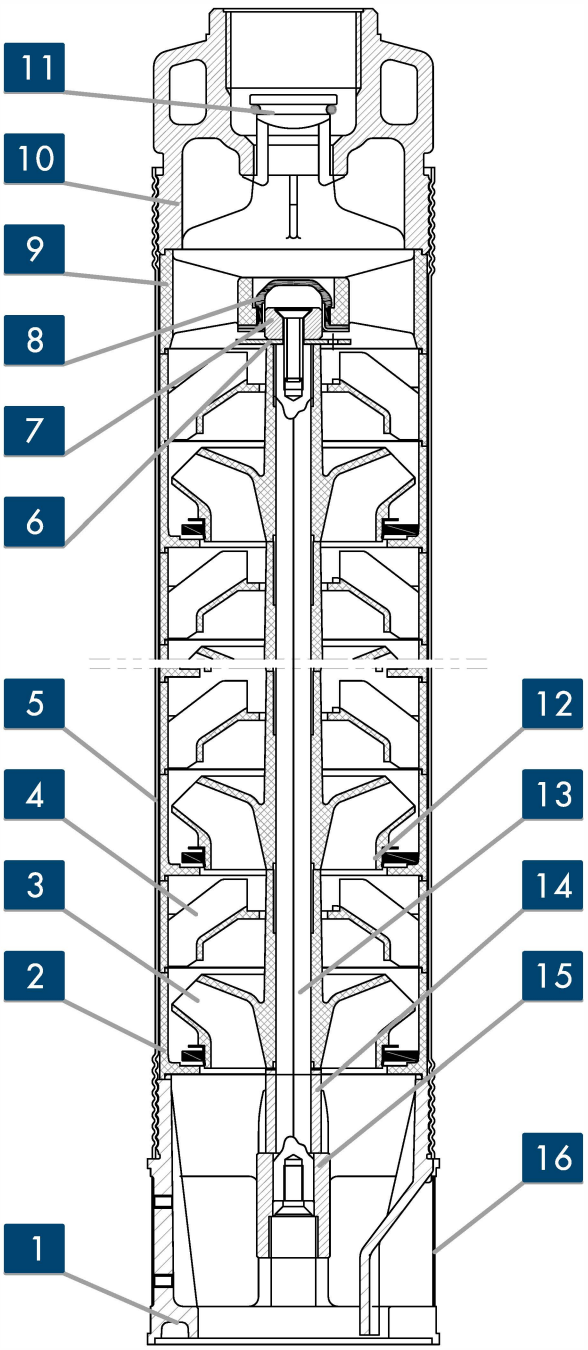
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Brass	ASTM C37700
2	Stage housing	Noryl® PPO	------
3	Impeller	POM	------
4	Diffuser	Noryl® PPO	------
5	Pump sleeve	Stainless steel	AISI 304
6	Thrust bearing	Stainless steel	AISI 304
7	Shaft sleeve	Stainless steel	AISI 304
8	Rubber bearing	TPU	------
9	Upper support	Noryl® PPO	------
10	Delivery port	Brass	ASTM C37700
11	Non-return valve	Derlin® POM	------
12	Neck ring	POM	------
13	Shaft	Stainless steel	AISI 304
14	Shaft sleeve	Stainless steel	AISI 304
15	Coupling	Stainless steel	AISI 316
16	Filter	Stainless steel	AISI 304

P4K SERIES

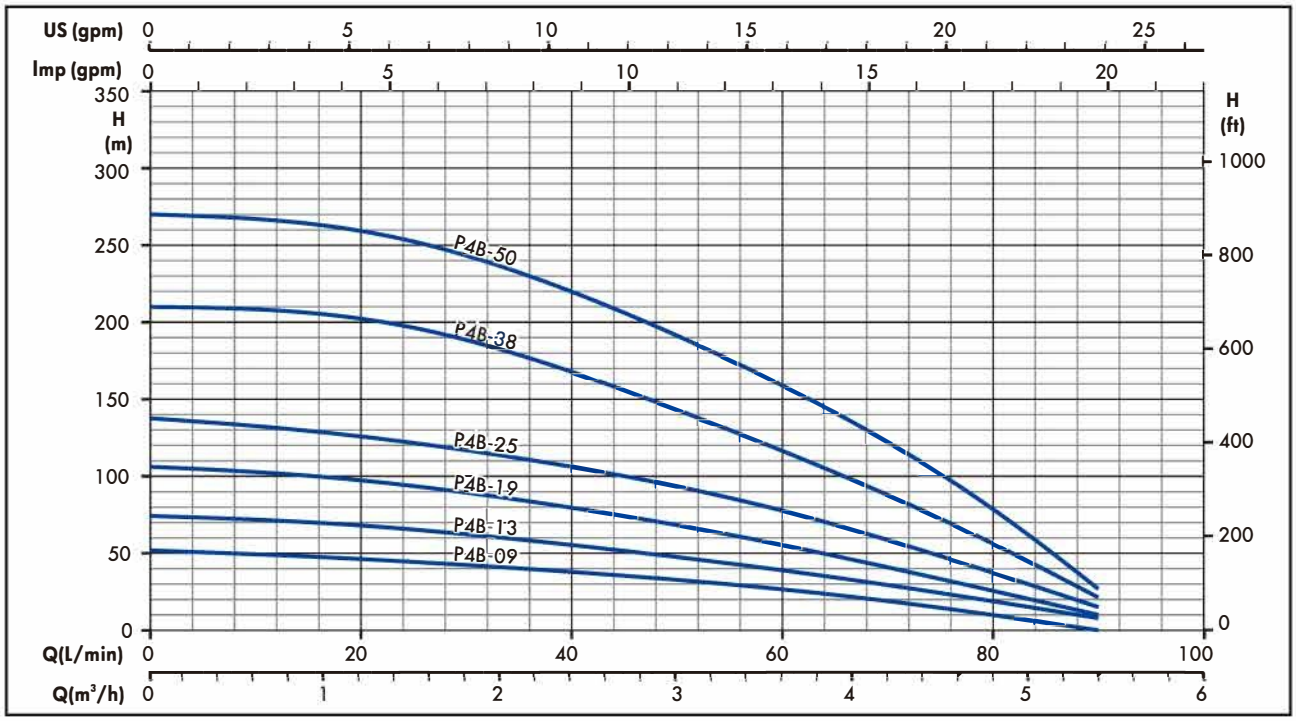
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Brass	ASTM C37700
2	Stage housing	Noryl® PPO	------
3	Impeller	POM	------
4	Diffuser	Noryl® PPO	------
5	Pump sleeve	Stainless steel	AISI 304
6	Thrust bearing	Stainless steel	AISI 304
7	Shaft sleeve	Stainless steel	AISI 304
8	Rubber bearing	TPU	------
9	Upper support	Noryl® PPO	------
10	Delivery port	Brass	ASTM C37700
11	Non-return valve	Derlin® POM	------
12	Neck ring	POM	------
13	Shaft	Stainless steel	AISI 304
14	Shaft sleeve	Stainless steel	AISI 304
15	Coupling	Stainless steel	AISI 316
16	Filter	Stainless steel	AISI 304

P4B SERIES

OPERATING CHARACTERISTICS AT 50 Hz

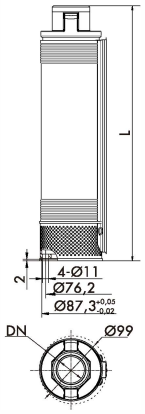


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY							
				l/min 0	20	40	50	60	70	75	90
				m³/h 0	1,2	2,4	3	3,6	4,2	4,5	5,4
				H=TOTAL HEAD METERS COLUMN OF WATER							
P4B-09-R	9	0,55	0,75	51	47	38	34	26	20	13	-
P4B-09-B											
P4B-13-R	13	0,75	1,0	74	69	55	48	40	30	28	9
P4B-13-B											
P4B-19-R	19	1,1	1,5	107	97	81	70	51	40	32	10
P4B-19-B											
P4B-25-R	25	1,5	2,0	138	126	105	94	76	60	48	15
P4B-25-B											
P4B-38-B	38	2,2	3,0	210	205	168	145	115	84	75	22
P4B-50-B	50	3,0	4,0	270	260	220	191	160	125	103	26

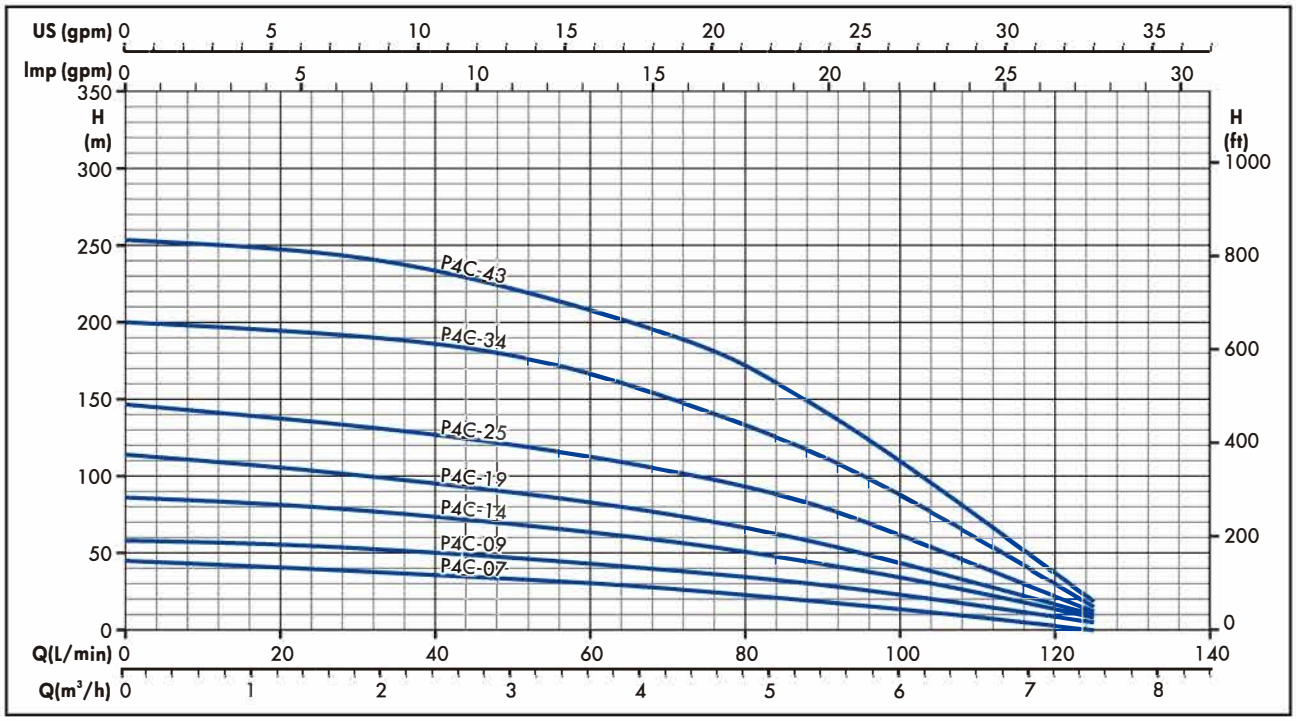
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L mm	Weight Kg
P4B-09-R	9	Rp1"1/4	485	2,4
P4B-09-B			465	3,6
P4B-13-R	13		620	3,1
P4B-13-B			600	4,3
P4B-19-R	19		825	4,2
P4B-19-B			805	5,4
P4B-25-R	25		1020	5,3
P4B-25-B			1000	6,5
P4B-38-B	38		1445	8,8
P4B-50-B	50		1850	11



P4C SERIES

OPERATING CHARACTERISTICS AT 50 Hz

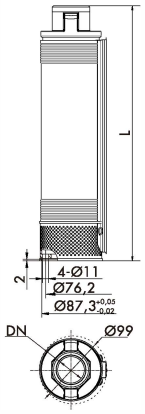


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min 0	20	40	50	60	70	75	90	95	105	115	125
				m³/h 0	1,2	2,4	3	3,6	4,2	4,5	5,4	5,7	6,3	6,9	7,5
				H=TOTAL HEAD METERS COLUMN OF WATER											
P4C-07-R	07	0,55	0,75	45	40	35	33	31	28	25	19,5	16	12	5	-
P4C-07-B															
P4C-09-R	09	0,75	1	58	56	50	47	45	40	37	30	27	20	12	5
P4C-09-B															
P4C-14-R	14	1,1	1,5	86	82	74	69	64	57	55	43	39	30	20	8
P4C-14-B															
P4C-19-R	19	1,5	2	114	106	97	90	85	76	71	57	50	38	25	10
P4C-19-B															
P4C-25-R	25	2,2	3,0	147	138	127	120	112	104	98	80	71	52	32	12
P4C-25-B															
P4C-34-B	34	3,0	4,0	200	195	187	179	166	151	143	113	101	75	46	15
P4C-43-B	43	4,0	5,5	252	249	235	222	209	195	187	143	125	92	55	18

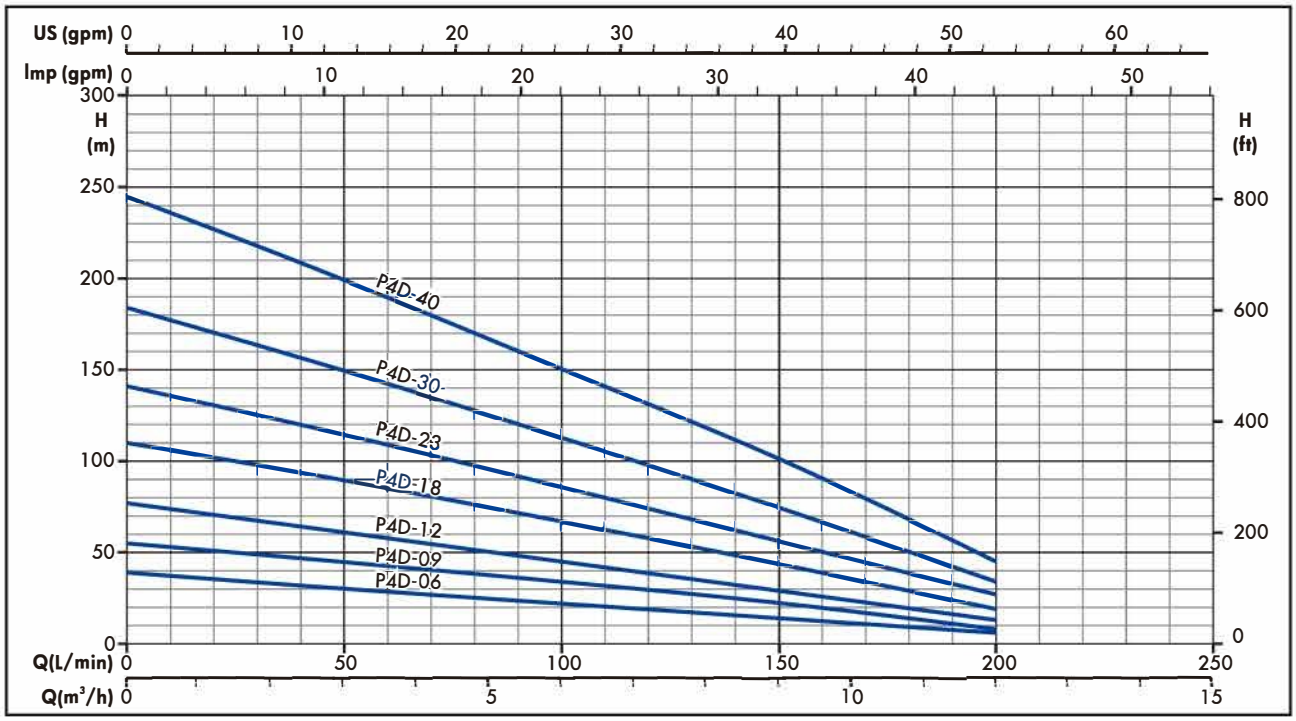
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L mm	Weight Kg
P4C-07-R	7	Rp1"1/4	420	2,1
P4C-07-B			400	3,3
P4C-09-R	9		490	2,6
P4C-09-B			470	3,8
P4C-14-R	14		660	3,3
P4C-14-B			640	4,5
P4C-19-R	19		830	4,3
P4C-19-B			810	5,5
P4C-25-R	25		1030	5,3
P4C-25-B			1010	6,5
P4C-34-B	34		1325	8,2
P4C-43-B	43		1625	9,8



P4D SERIES

OPERATING CHARACTERISTICS AT 50 Hz

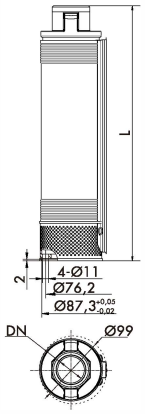


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min 0	50	100	150	200
				m³/h 0	3	6	9	12
				H=TOTAL HEAD METERS COLUMN OF WATER				
P4D-06-B	6	0,75	1,0	39	30	22	14	6
P4D-09-B	9	1,1	1,5	55	45	34	23	8
P4D-12-B	12	1,5	2,0	77	60	45	29	13
P4D-18-B	18	2,2	3,0	110	90	67	44	19
P4D-23-B	23	3,0	4,0	141	115	86	56	27
P4D-30-B	30	4,0	5,5	184	150	113	75	34
P4D-40-B	40	5,5	7,5	245	200	150	103	45

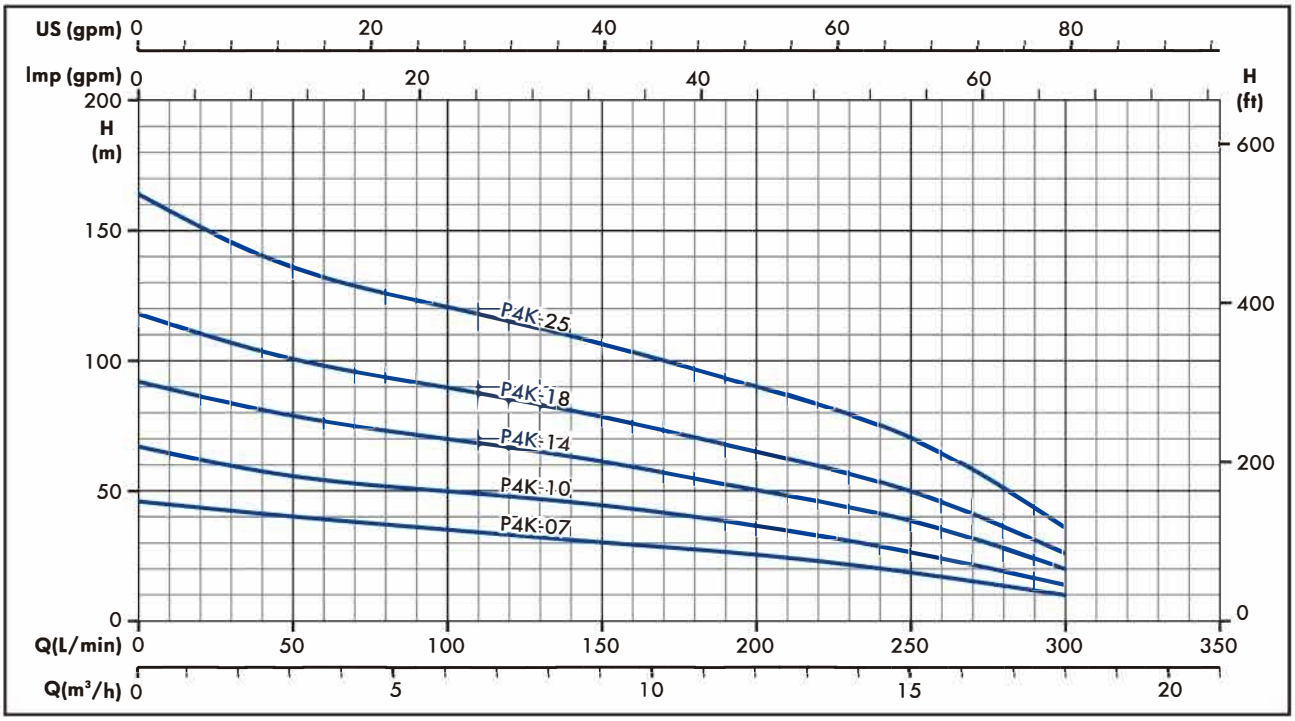
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L mm	Weight Kg
P4D-06-B	6	Rp2"	530	3,1
P4D-09-B	9		695	4
P4D-12-B	12		860	4,9
P4D-18-B	18		1190	6,8
P4D-23-B	23		1465	8,4
P4D-30-B	30		1850	10,6
P4D-40-B	40		2400	13,7



P4K SERIES

OPERATING CHARACTERISTICS AT 50 Hz

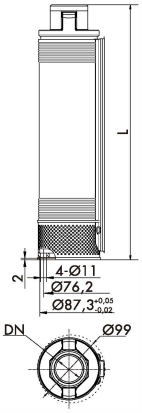


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min	50	100	150	200	250	300
				m³/h	3	6	9	12	15	18
				H=TOTAL HEAD METERS COLUMN OF WATER						
P4K-07-B	7	1,5	2,0	46	40	36	31	26	19	10
P4K-10-B	10	2,2	3,0	67	56	50	45	37	27	14
P4K-14-B	14	3,0	4,0	92	79	70	62	50	39	20
P4K-18-B	18	4,0	5,5	118	101	90	79	65	50	26
P4K-25-B	25	5,5	7,5	164	136	121	107	90	71	36

DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L mm	Weight Kg
P4K-07-B	7	Rp2"	630	3,8
P4K-10-B	10		815	4,8
P4K-14-B	14		1065	6,2
P4K-18-B	18		1315	7,6
P4K-25-B	25		1750	10,1



TM10 SERIES 4" SUBMERSIBLE ELECTRIC PUMPS

APPLICATIONS

- Water supply from deep well
- Pressure boosting

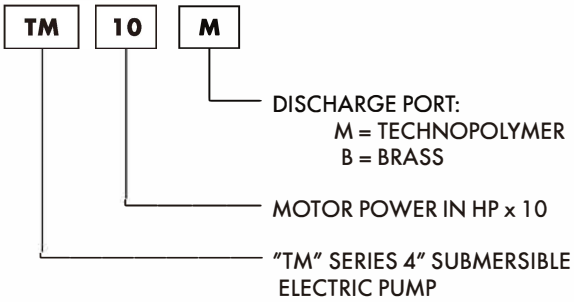
SPECIFICATIONS

- Delivery: up to 2,1 m³/h at 2850 rpm.
- Head: up to 70 m at 2850 rpm.
- Maximum pump overall diameter (cable cover included):95 mm.
- Maximum permissible quantity of sand: 50 g/m³.
- Versions: delivery port Rp1".
- Rated power: 0,75 kW.
- Rated voltage: 220 V.
- Rated frequency: 50 Hz.
- Protection: IP58.
- Insulation: Class F.
- Maximum temperature of water in contact with motor: 35 °C.

CONSTRUCTION & CHARACTERISTICS

- Extremely light and compact.
- Compact and easy-handling.
- It allows the direct installation by the final customer.
- Easy to maintain and rapid to install.

IDENTIFICATION CODE



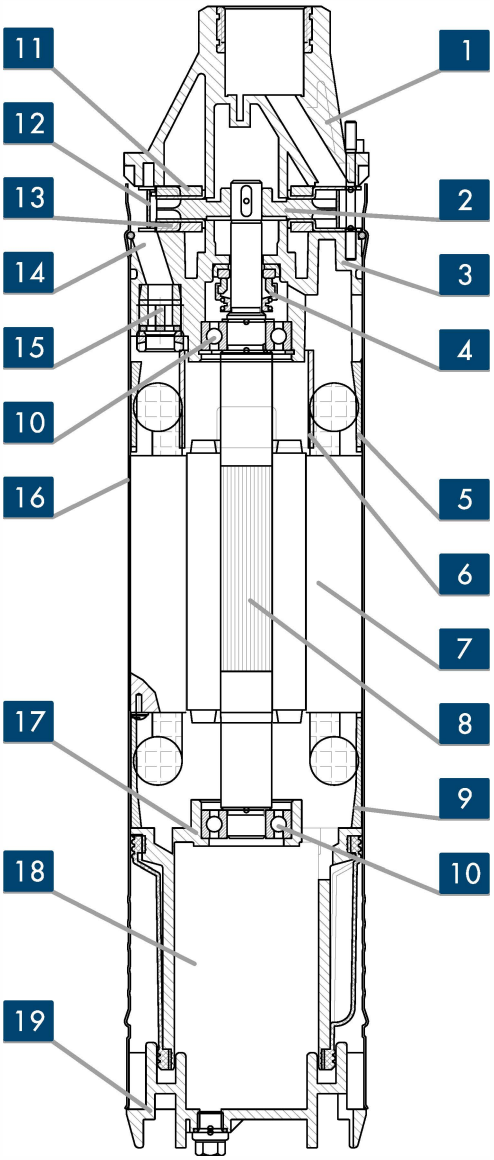
EXAMPLE OF PUMP TYPE

TM10M

TM series 4" submersible electric pump with single-phase 1,0 Hp (0,75 kW) motor.

TM10 SERIES

PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL

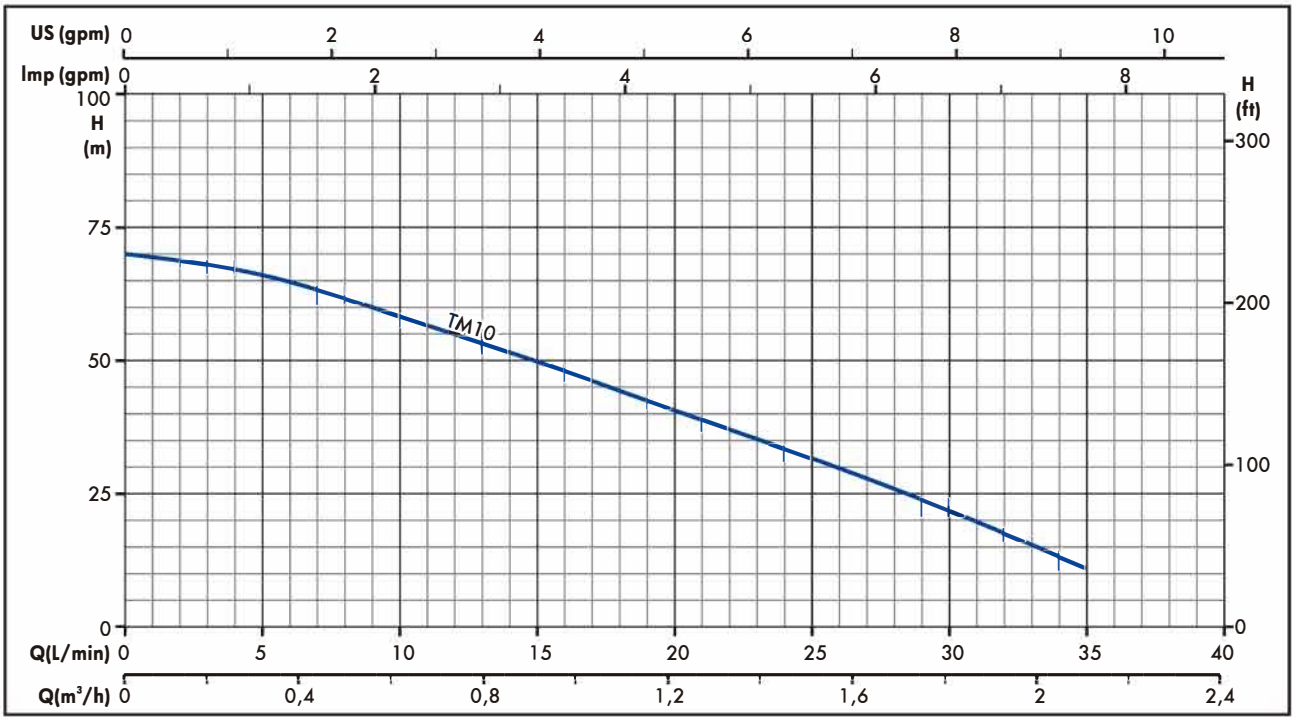


REF.N.	PART	MATERIAL	STANDARD
1	Discharge port	Technopolymer /Brass	------ /ASTM C37700
2	Impeller	Brass	ASTM C37700
3	Upper support	Noryl® PPO	------
4	Mechanical seal	Carbon/Ceramic	------
5	Upper support ring	Noryl® PPO	------
6	Internal spacer	PP	------
7	Stator	------	------
8	Rotor	------	------
9	Lower support ring	Noryl® PPO	------
10	Ball bearing	------	------
11	Gasket sealing plate	Stainless steel	AISI 304
12	Spacer ring	Stainless steel	AISI 304
13	Inferior plate	Stainless steel	AISI 304
14	Cable	------	------
15	Fairlead	NBR	------
16	Motor sleeve	Stainless steel	AISI 304
17	Lower support	PP	------
18	Cooling liquid	Non toxic oil	------
19	Base	PP	------

SISTEMA

TM10 SERIES

OPERATING CHARACTERISTICS AT 50 Hz

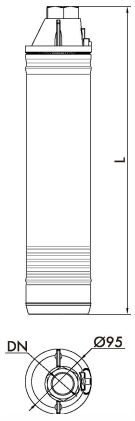


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	kW	Hp	Q=DELIVERY							
			l/min 0	5	10	15	20	25	30	35
			m³/h 0	0,3	0,6	0,9	1,2	1,5	1,8	2,1
			H=TOTAL HEAD METERS COLUMN OF WATER							
TM10M	0,75	1,0	70	67	58	50	40	32	22	11
TM10B										

DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	DN	L mm	Weight Kg
TM10M	Rp1"	460	9
TM10B		445	9,6



JUNIOR SERIES 4" SUBMERSIBLE PUMPS

- These versions from 0,55 to 1,5 kW with cast-iron delivery portand external capacitor are the natural achievement of mono-bloc submersed electropumps series.

APPLICATIONS

- Water supply from deep well
- Pressure boosting

SPECIFICATIONS

- Delivery: up to 4,2 m^3/h at 2850 rpm.
- Head: up to 130 m at 2850 rpm.
- Maximum pump overall diameter (cable cover included): 96 mm.
- Maximum permissible quantity of sand: 50 g/m^3.
- JUNIOR 07, JUNIOR 10 versions:delivery port Rp1".
- JUNIOR BP, JUNIOR BS versions: delivery port Rp1"1/4.
- POWER:
  single-phase version:
  from 0,55 to 1,1 kW, 230 V, 50 Hz.
  three-phase version:
  from 0,55 to 1,1 kW, 400 V, 50 Hz.
- Protection: IP58.
- Insulation: Class F.
- Maximum temperature of water in contact with motor: 35 °C.

CONSTRUCTION & CHARACTERISTICS

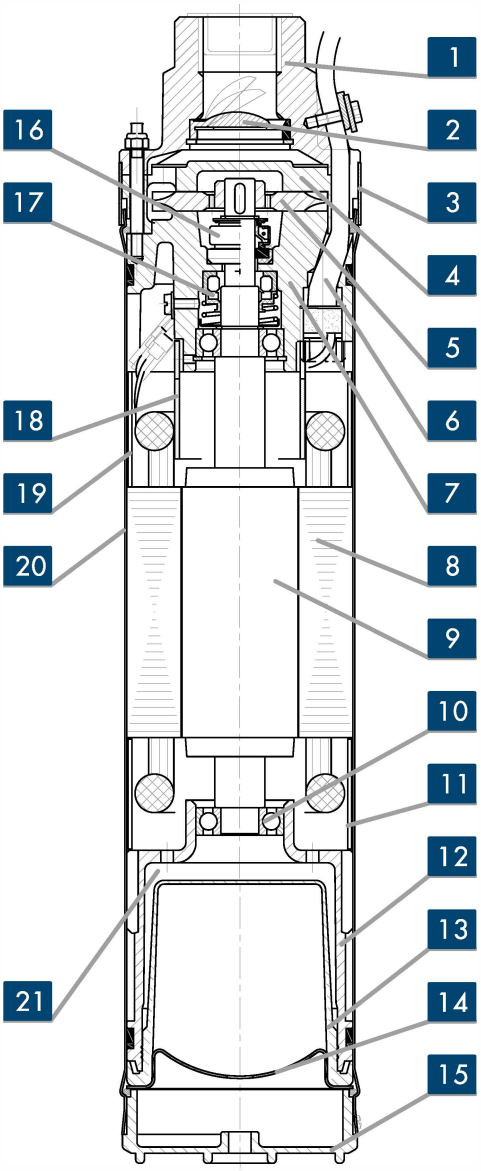
- Rotating double mechanical seal.
- Built-in non-return valve.
- Atoxic oil-cooled motor with compensation membrane.
- Easy to maintain and rapid to install.

OPTIONAL FEATURES

- Longer cable on demand.

JUNIOR 07-10 SERIES

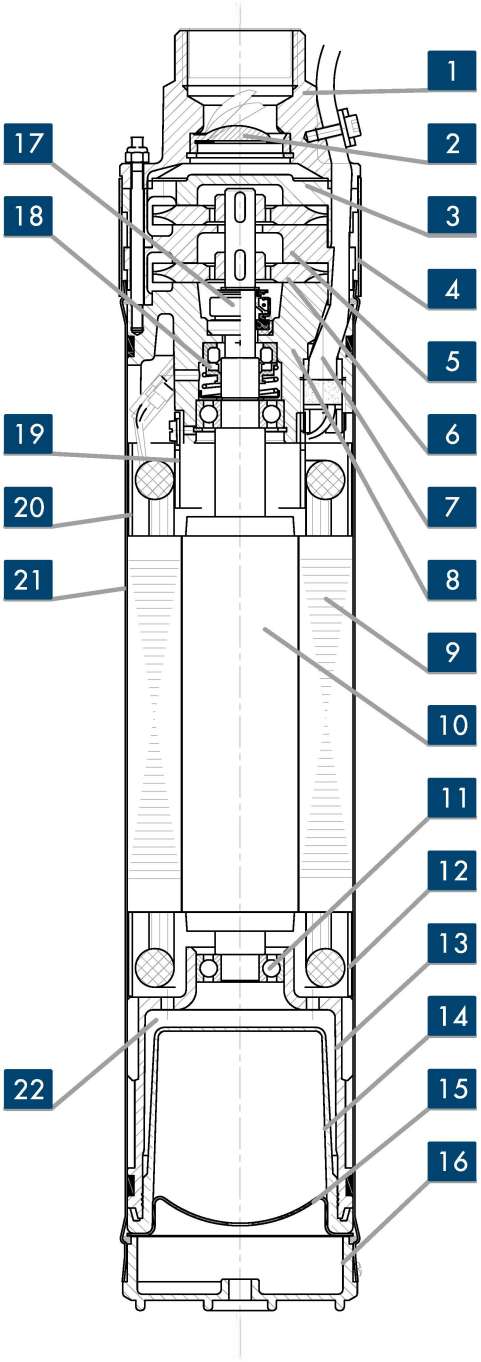
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Delivery port	Cast iron	ASTM 25A
2	Non-return valve	E.P.D.M	------
3	Filter	Stainless steel	AISI 304
4	Diversion cover	Cast iron	ASTM 25A
5	Impeller	Brass	ASTM C37700
6	Cable	------	------
7	Upper support	Cast iron	ASTM 25A
8	Stator	------	------
9	Rotor	------	------
10	Bearing	------	------
11	Lower support ring	PA66	------
12	Lower support	Cast iron	ASTM 25A
13	Compensation diaphragm	NBR	------
14	Lower protection	Stainless steel	AISI 304
15	Base	Noryl® PPO	------
16	Mechanical seal	Carbon/Ceramic	------
17	Mechanical seal	Carbon/Ceramic	------
18	Spacer	PP	------
19	Upper support ring	PA66	------
20	Motor sleeve	Stainless steel	AISI 304
21	Cooling liquid	Non toxic oil	------

JUNIOR BP-BS SERIES

PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL

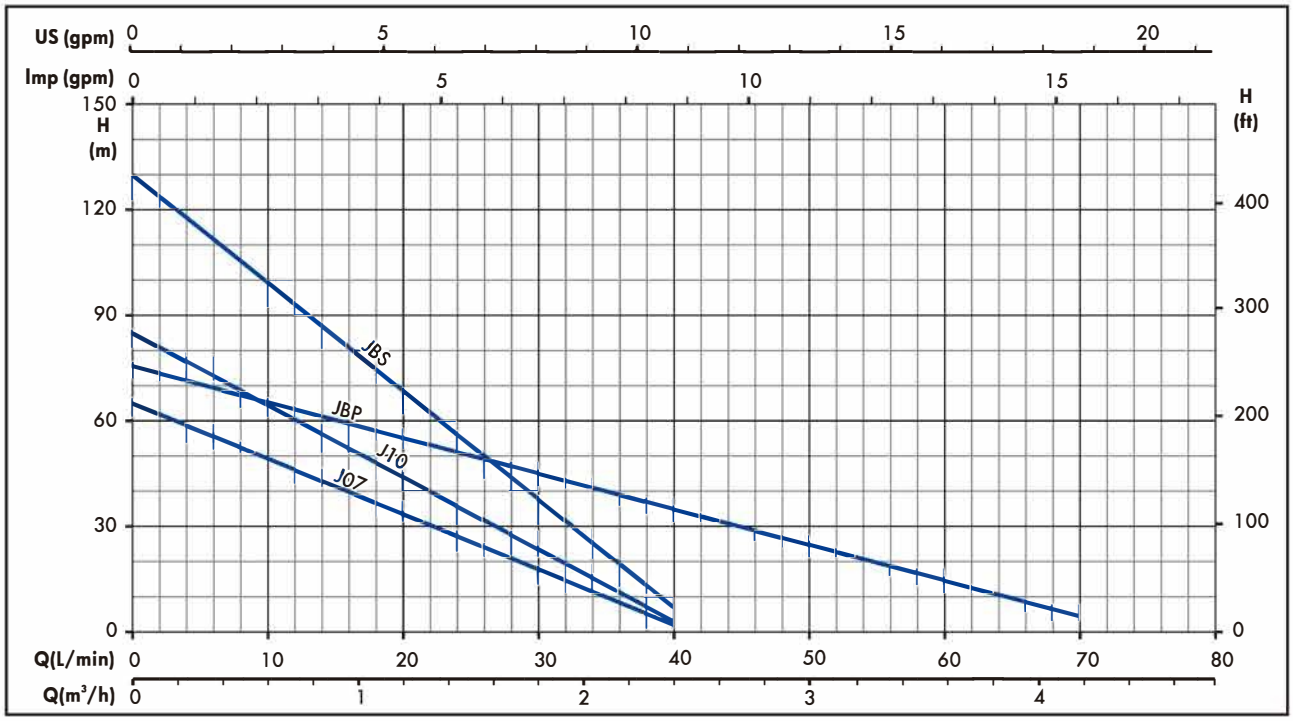


REF.N.	PART	MATERIAL	STANDARD
1	Delivery port	Cast iron	ASTM 25A
2	Non-return valve	E.P.D.M	------
3	Diversion cover	Cast iron	ASTM 25A
4	Filter	Stainless steel	AISI 304
5	Diversion case	Cast iron	ASTM 25A
6	Impeller	Brass	ASTM C37700
7	Cable	------	------
8	Upper support	Cast iron	ASTM 25A
9	Stator	------	------
10	Rotor	------	------
11	Bearing	------	------
12	Lower support ring	PA66	------
13	Lower support	Cast iron	ASTM 25A
14	Compensation diaphragm	NBR	------
15	Lower protection	Stainless steel	AISI 304
16	Base	Noryl® PPO	
17	Mechanical seal	Carbon/Ceramic	------
18	Mechanical seal	Carbon/Ceramic	------
19	Spacer	PP	------
20	Upper support ring	PA66	------
21	Motor sleeve	Stainless steel	AISI 304
22	Cooling liquid	Non toxic oil	------

SISTEMA

JUNIOR SERIES

OPERATING CHARACTERISTICS AT 50 Hz

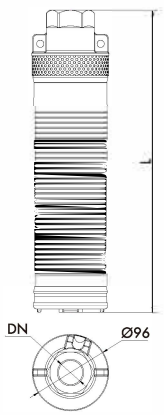


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min 0	5	10	15	20	25	30	35	40	50	60	70
				m³/h 0	0,3	0,6	0,9	1,2	1,5	1,8	2,1	2,4	3	3,6	4,2
				H=TOTAL HEAD METERS COLUMN OF WATER											
JUNIOR 07 M	1	0,55	0,75	65	58	49	41	33	25	17	9	2			
JUNIOR 07 T	1	0,55	0,75												
JUNIOR 10 M	1	0,75	1,0	85	74	63	54	43	33	25	12	3			
JUNIOR 10 T	1	0,75	1,0												
JUNIOR BP M	2	1,1	1,5	76	71	65	61	56	51	45	40	35	25	15	5
JUNIOR BP T	2	1,1	1,5												
JUNIOR BS M	2	1,1	1,5	130	115	100	84	70	52	38	21	7			
JUNIOR BS T	2	1,1	1,5												

DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L mm	Weight Kg
JUNIOR 07 M	1	Rp1"	460	11,9
JUNIOR 07 T	1		460	11,3
JUNIOR 10 M	1		495	12,5
JUNIOR 10 T	1		495	11,6
JUNIOR BP M	2	Rp1"1/4	510	16,6
JUNIOR BP T	2		545	14,3
JUNIOR BS M	2		515	14
JUNIOR BS T	2		545	12,7



ACQUAJET SERIES 4" SUBMERSIBLE ELECTRIC PUMPS

FEATURES

- Advanced water conservancy model, compact structure
- Easy to move and install

APPLICATIONS

- Water supply from deep well
- Pressure boosting

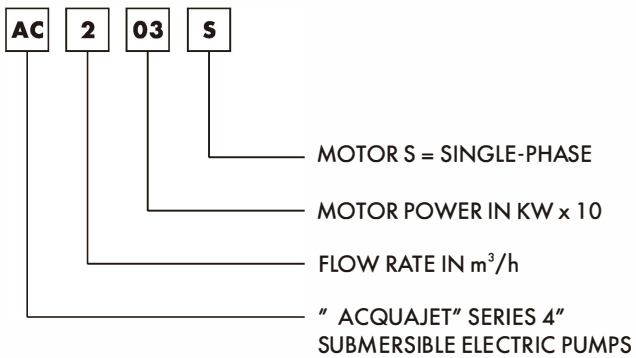
SPECIFICATIONS

- Delivery: up to 6 m³/h at 2850 rpm.
- Head: up to 69 m at 2850 rpm.
- Maximum pump overall diameter (cable cover included): 90 mm.
- Maximum permissible quantity of sand: 150 g/m³.
- Versions:delivery port Rc1"1/4.
- POWER:
  single-phase version:
  from 0,37 to 0,75 kW, 220 V, 50 Hz.

CONSTRUCTION & CHARACTERISTICS

- Pump and motor connected inside complete pump sleeve, compact and aesthetic
- Discharge, pump base, suction base etc made of engineering plastic, makes pump corrosion resistant and portable.
- Inlet at bottom of pump, which makes pump get more water in case of low water level
- Water flow around motor sleeve, carrying away most heat generated by motor, which cools down motor, saves cost and prolongs motor life.

IDENTIFICATION CODE



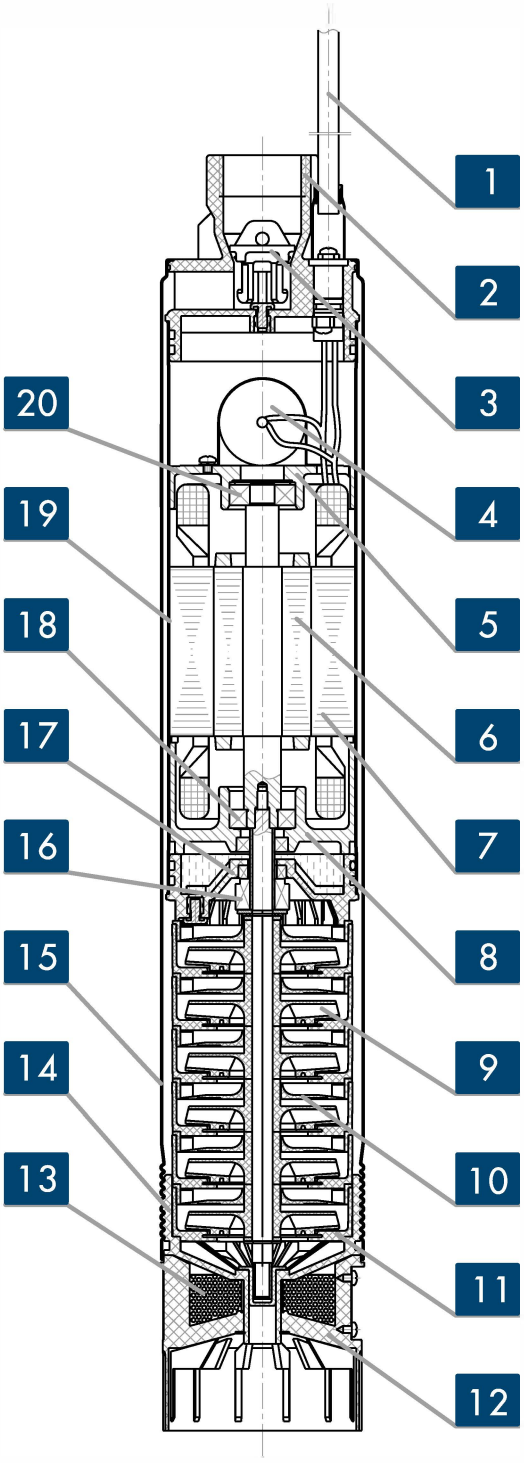
EXAMPLE OF PUMP TYPE

AC203S

ACQUAJET series 4" submersible electric pump, single-phase
0,37 kW(0,5 Hp), flow rate 2 m³/h.

ACQUAJET SERIES

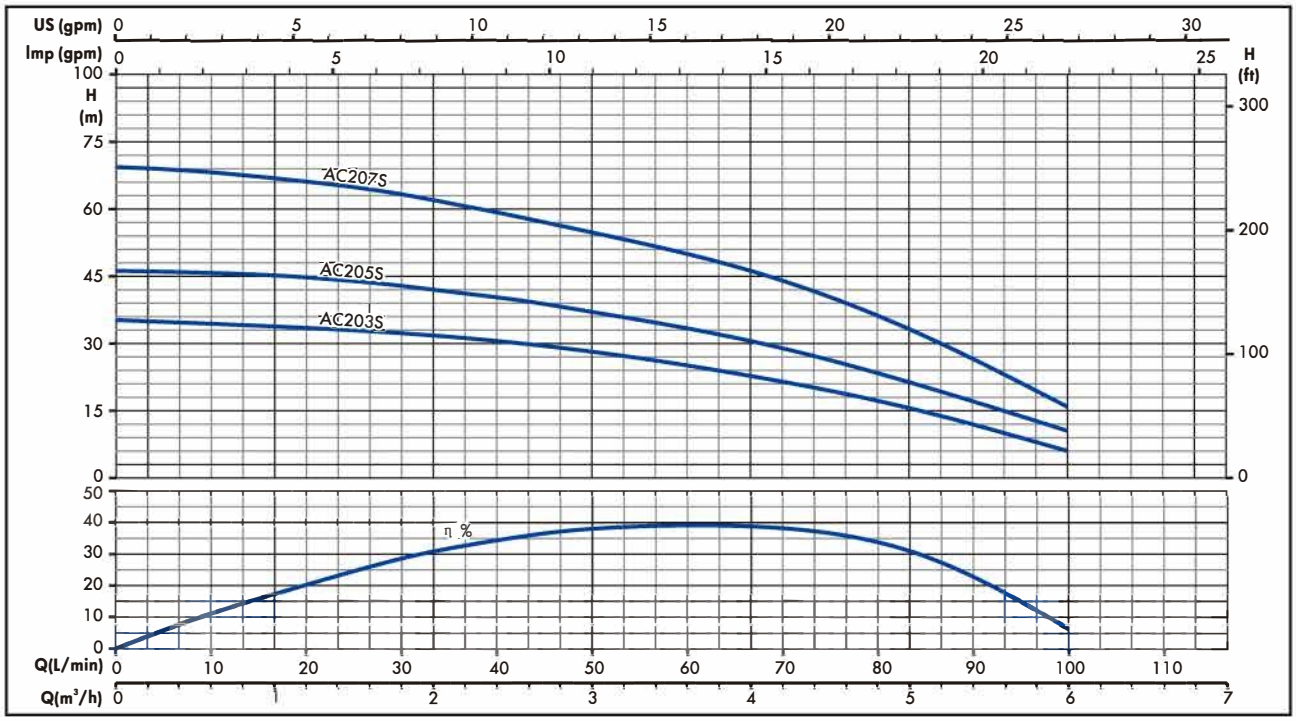
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Cable	------	------
2	Discharge port	Noryl® PPO	------
3	Non-return valve	ABS	------
4	Capacitor	------	------
5	Upper support	Cast iron	*ASTM 20A*
6	Rotor	------	------
7	Stator	------	------
8	Lower support	Cast iron	*ASTM 20A*
9	Impeller	ABS	------
10	Diffuser	ABS	------
11	Stage housing	ABS	------
12	Suction base	Noryl® PPO	------
13	Filter	Stainless steel	*AISI 304*
14	Pump base	Noryl® PPO	------
15	Pump sleeve	Stainless steel	*AISI 304*
16	Mechanical seal	Carbon/Ceramic	------
17	Oil chamber base	Noryl® PPO	------
18	Bearing	------	------
19	Motor sleeve	Stainless steel	*AISI 304*
20	Bearing	------	------

ACQUAJET SERIES

OPERATING CHARACTERISTICS AT 50 Hz

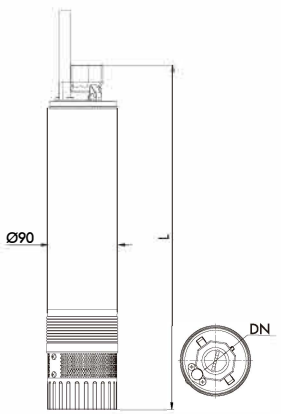


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	kW	Hp	Q=DELIVERY l/min 0	17	33	50	67	83	100
			m³/h 0	1	2	3	4	5	6
			H=TOTAL HEAD METERS COLUMN OF WATER						
AC203S	0,37	0,5	35	34	32	28,5	23	16	6
AC205S	0,55	0,7	46	45	42	37	30,5	22	10,5
AC207S	0,75	1,0	69	67	62	55,5	46	33	16

DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L mm	PUMP Weight Kg
AC203S	5	Rc1"1/4	606	10
AC205S	7		667	11
AC207S	10		773,5	12,5



6OS SERIES 6" OIL-FILLED SUBMERSIBLE MOTORS

- The state-of-art design and choice of component materials ensure optimum operating performances, superior quality,reliability and ease of installation.

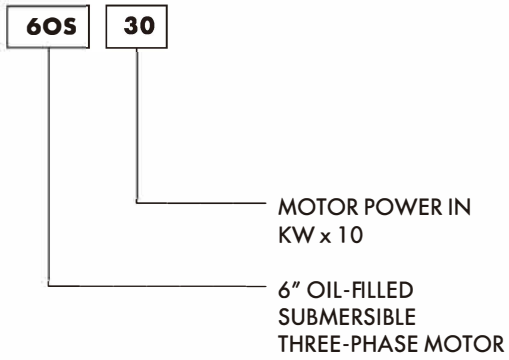
SPECIFICATIONS

- Shaft extension and couplings meet NEMA standards.
- Rewindable stator.
- Winding insulation: class F .
- Protection grade: IP68.
- Filling fluid in compliance with standards concerning oils contact with foodstuffs and with the purity requirements specified by the annex to G.U. no. 104 of 20/04/1973; it also complies with F.D.A. (FOOD AND DRUG ADMINISTRATION) standards.
- Large compensation bellows for the expansion of the internal liquid.
- Oversized thrust bearings: Shaft supported by oversized angular bearings which can support thrust load up to 10000N.
- Mechanical seal with sand protection.
- Maximum immersion depth: 150 m .
- Maximum water temperature: 35 °C.
- Max temperature applies to motors working in a installation capable of delivering a flow of water around the motor jacket of at least 0,16 m/s.
- Maximum number of starts per hour, at regular intervals: 30 for direct start.
- Maximum allowable voltage fluctuations over the rated voltage: 380 V ± 10 %.
- Models:
  Three-phase:
  from 3,0 to 25 kW, 380 V,50 Hz.

OPTIONAL FEATURES

- Different voltage and frequency.
- Different materials.

IDENTIFICATION CODE

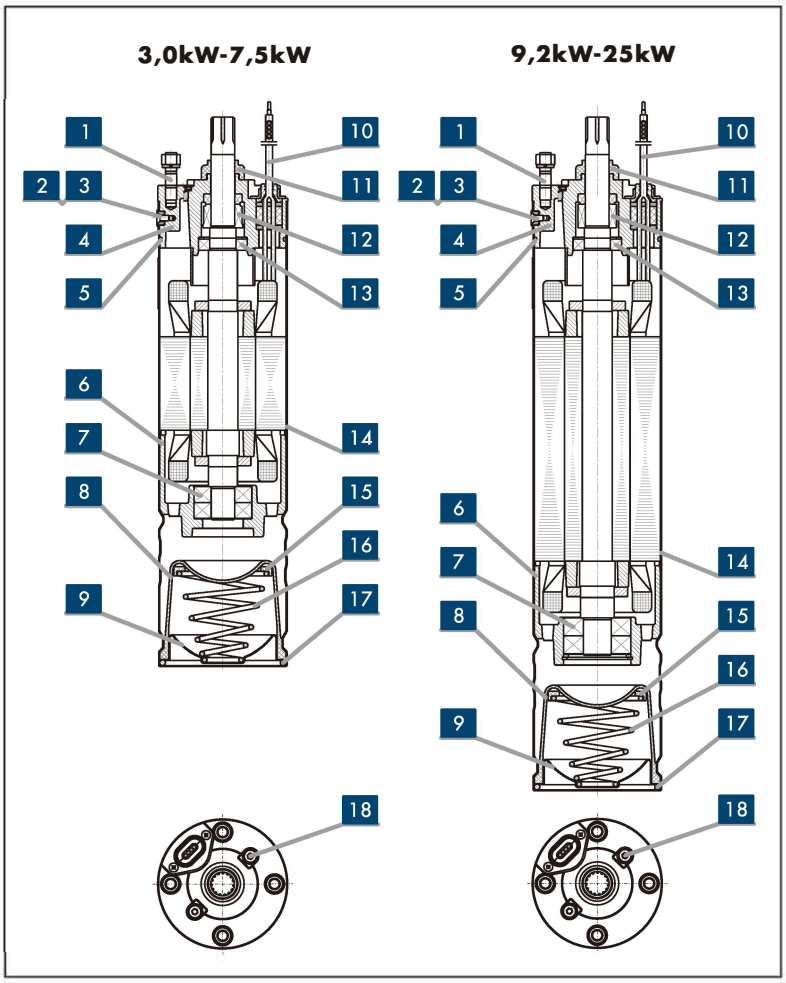


EXAMPLE OF MOTOR TYPE

6OS30

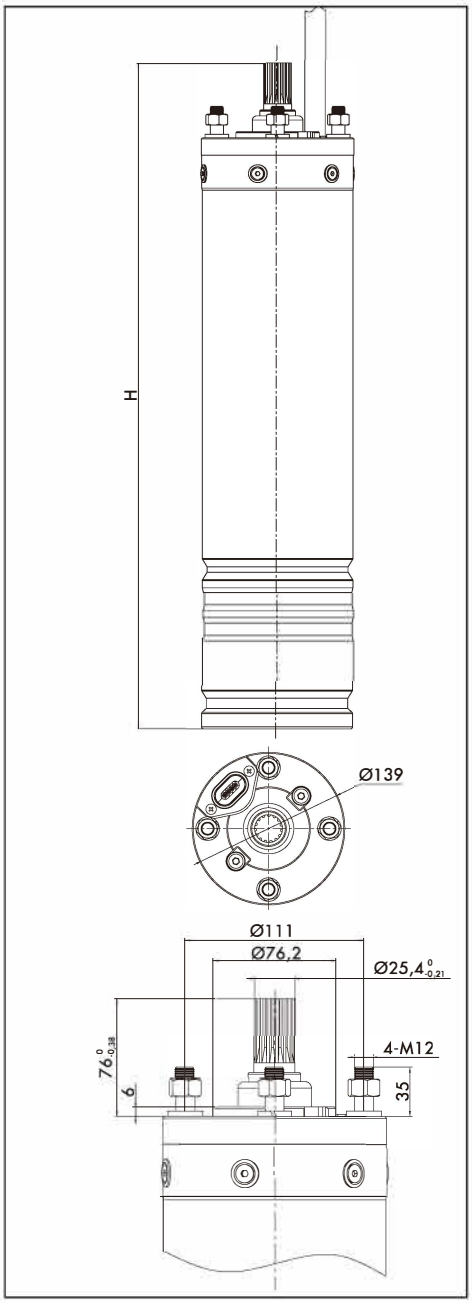
6" oil-filled submersible motor , three-phase , 3,0 kW (4,0 Hp)

6OS SERIES MOTOR CROSS SECTION AND TABLE OF MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Double ends studs	Stainless steel	AISI 304
2	Pin	Stainless steel	AISI 304
3	Screw	Stainless steel	AISI 304
4	Upper support	Cast iron	ASTM 25A
5	O-ring	NBR	------
6	Lower support	Cast iron	ASTM 25A
7	Angular bearing	------	------
8	Compensation bellow	NBR	------
9	Lower protection	Stainless steel	AISI 304
10	Cable	------	------
11	Sand protection	NBR	------
12	Mechanical seal	Carbon/Ceramic	------
13	Ball bearing	------	------
14	Motor shell	Stainless steel	AISI 304
15	Spring base	PA66	AISI 304
16	Spring	Stainless steel	------
17	Snap ring	Stainless steel	AISI 304
18	Filling screw	Stainless steel	AISI 304

DIMENSIONS AND WEIGHTS AT 50 Hz



MOTOR TYPE	POWER		H	WEIGHT
	kW	Hp	mm	Kg
6OS30	3,0	4,0	587,5	27
6OS40	4,0	5,5	607,5	29
6OS55	5,5	7,5	637,5	32
6OS75	7,5	10	677,5	36
6OS92	9,2	12,5	720,5	41
6OS110	11	15	750,5	44
6OS130	13	17,5	780,5	46,5
6OS150	15	20	830,5	51,5
6OS185	18,5	25	892,5	61,5
6OS220	22	30	967,5	69
6OS250	25	34	1032,5	77

BS SERIES 6”WATER-FILLED SUBMERSIBLE MOTORS

- The robust design and choice of component materials ensure optimum operating performances, superior quality, reliability and ease of installation.

SPECIFICATIONS

- Shaft extension and couplings meet NEMA standards.
- Rewindable stator.
- Winding insulation: class Y.
- Protection grade: IP68.
- Large compensation bellows for the expansion of the internal liquid.
- Oversized thrust bearings: Shaft supported by oversized thrust bearings which can support thrust load up to 15500 N.
- Mechanical seal with sand protection.
- Filling fluid: water mixed with non-toxic anti-freeze glycol, provides cooling and lubrication, also protects and prevents inside parts from corrosion.
- Maximum immersion depth: 350 m .
- Maximum number of starts per hour, at regular intervals: 25.
- Maximum allowable voltage fluctuations over the rated voltage: ± 10 %.

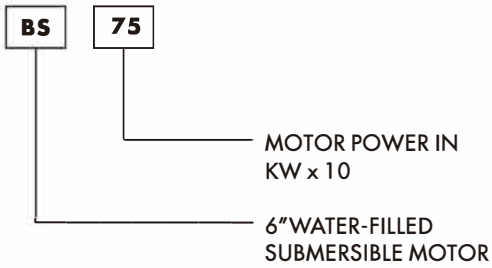
Version

- Three-phase from 3,0 to 30 kW, 380 V/50 Hz.

OPTIONAL FEATURES

- Different voltage and frequency.
- Different materials.
- Motors with double cable outlets for star/delta start.

IDENTIFICATION CODE



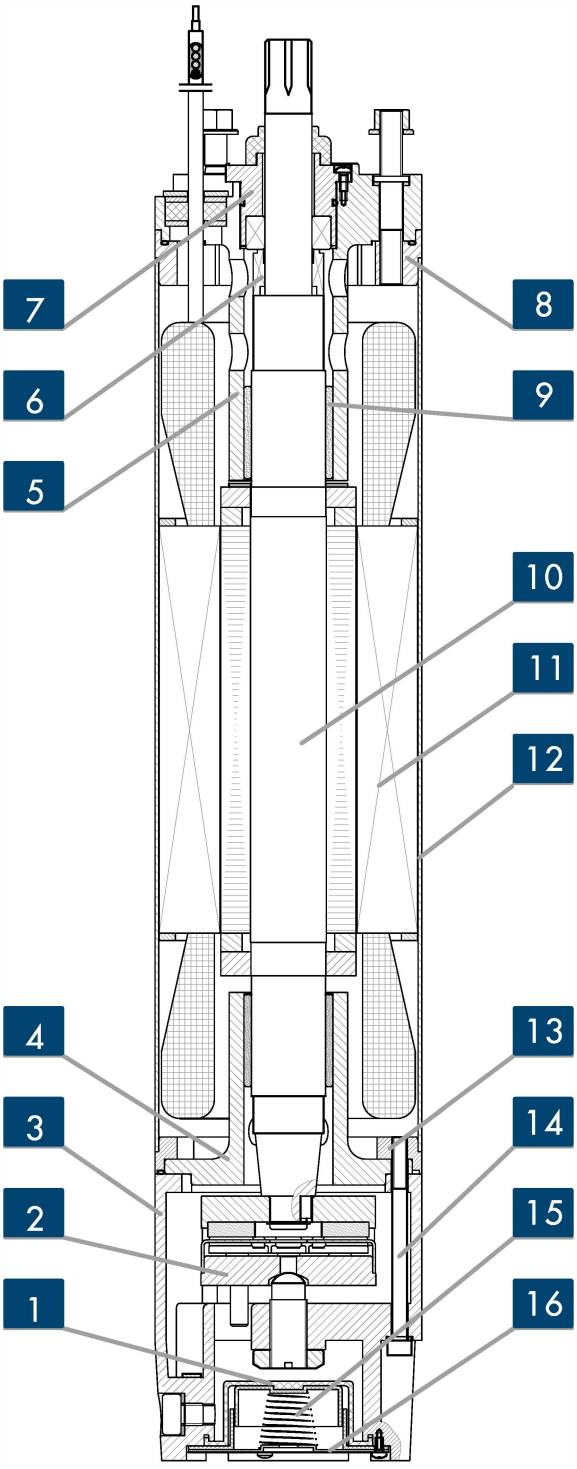
EXAMPLE OF PUMP TYPE

BS75

6” water-filled submersible motor,three -phase
7,5 kW (10 Hp)

BS SERIES

MOTOR SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Compensation bellow	NBR	------
2	Thrust bearing	Special material	------
3	Thrust bearing support	Cast iron	ASTM 25A
4	Lower support	Cast iron	ASTM 25A
5	Upper support	Cast iron	ASTM 25A
6	Mechanical seal	Carbon/Ceramic	------
7	Mechanical seal cover	Stainless steel	AISI 420
8	Upper flange	Steel	AISI 1025
9	Bush bearing	Carbon graphite	------
10	Rotor	------	------
11	Stator	------	------
12	Motor sleeve	Stainless steel	AISI 304
13	Lower flange	Steel	AISI 1025
14	Hexagon socket head cap screws	Stainless steel	AISI 304
15	Spring	Stainless steel	AISI 304
16	Lower cover	Stainless steel	AISI 304

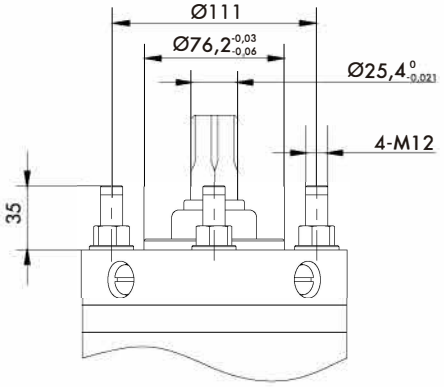
BS SERIES

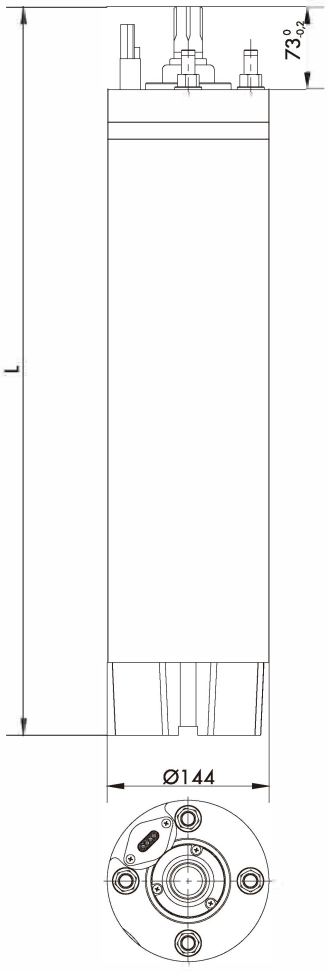
OPERATING CHARACTERISTICS AT 50 Hz

MOTOR TYPE	RATED POWER		RATED VOLTAGE V	RATED FREQUENCY Hz	OPERATING CHARACTERISTICS AT RATED POWER			
	kW	Hp			RATED CURRENT A	RPM	COSφ	η %
BS30	3,0	4,0	380	50	7,9	2850	0,8	74
BS40	4,0	5,5	380	50	10,3	2850	0,82	75
BS55	5,5	7,5	380	50	13,7	2850	0,82	76
BS75	7,5	10	380	50	17,9	2850	0,82	77,4
BS92	9,2	12,5	380	50	21	2850	0,84	79
BS110	11	15	380	50	24,8	2850	0,84	80
BS130	13	17,5	380	50	28,5	2850	0,85	81,3
BS150	15	20	380	50	33,4	2850	0,84	81,7
BS185	18,5	25	380	50	39,7	2850	0,86	82,2
BS220	22	30	380	50	47,5	2850	0,85	83,2
BS250	25	34	380	50	53,6	2850	0,85	82,9
BS300	30	40	380	50	62,8	2850	0,86	84

DIMENSIONS AND WEIGHTS AT 50 Hz

MOTOR TYPE	RATED POWER		L mm	WEIGHT Kg
	kW	Hp		
BS30	3,0	4,0	708	41,5
BS40	4,0	5,5	738	44,1
BS55	5,5	7,5	758	47,3
BS75	7,5	10	808	52,7
BS92	9,2	12,5	818	54,5
BS110	11	15	863	59
BS130	13	17,5	893	62,8
BS150	15	20	928	70,9
BS185	18,5	25	988	74,5
BS220	22	30	1073	83,4
BS250	25	34	1138	90,8
BS300	30	40	1223	104





B SERIES 6"SUBMERSIBLE PUMPS

APPLICATIONS

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

SPECIFICATIONS

- Delivery: up to 48 m^3/h at 2850 rpm.
- Head: up to 373 m at 2850 rpm.
- Maximum pump overall diameter (cable cover included): 143 mm.
- Maximum permissible quantity of sand: 150 g/m^3.
- Versions:delivery port G3".
- Maximum temperature of water in contact with motor: 35 °C.

CONSTRUCTION &CHARACTERISTICS

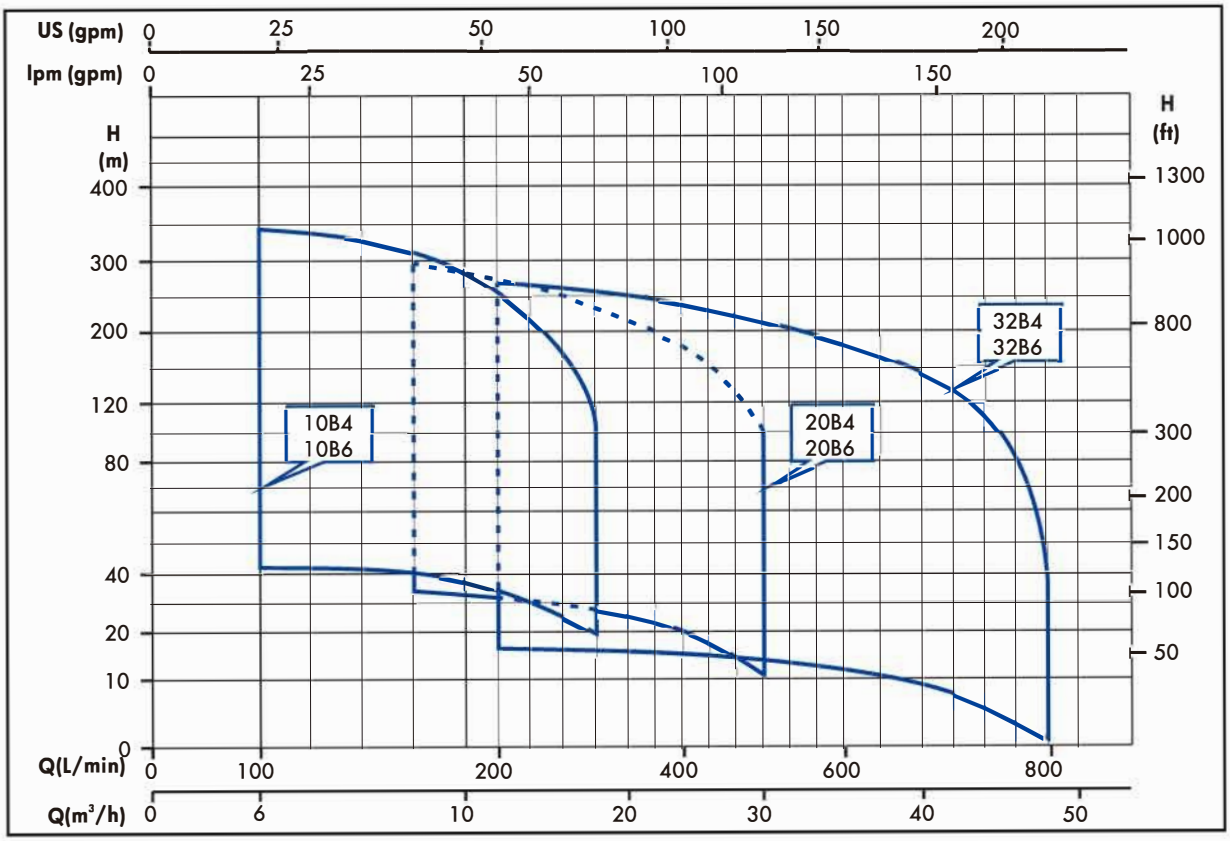
- Sturdy and lightweight, easy to disassemble and resistant to corrosion in non-aggressive environments.
- The delivery port and lower support are made of precision-cast stainless steel, ensuring resistance to corrosion, durability and a sturdy coupling to the motor.
- The impellers and diffusers are made of Noryl® PPO.
- The hexagonal pump shaft guarantees an effective impeller driving.
- A stainless steel non-return valve is fitted in the discharge to prevent back flow of water and alleviate water hammer to the pump, thus safeguarding impellers and diffusers.
- The guide bearings made of special TPU, ensure high resistance to wear and guarantee the constant and long-lasting using.
- Coupling and flange mounting dimensions meet NEMA standards.
- The B series pumps can be coupled to the 4" or 6" motors.
- Simple maintenance , rapid installation and dismantling.
- Standard and configurable versions available .

OPTIONAL FEATURES

- Different voltages and frequencies.
- Dual cable outlet for star/delta starting.
- Cast iron lower support and delivery port (2,2 kW to 7,5 kW)

B SERIES

HYDRAULIC PERFORMANCE RANGE AT 50 Hz



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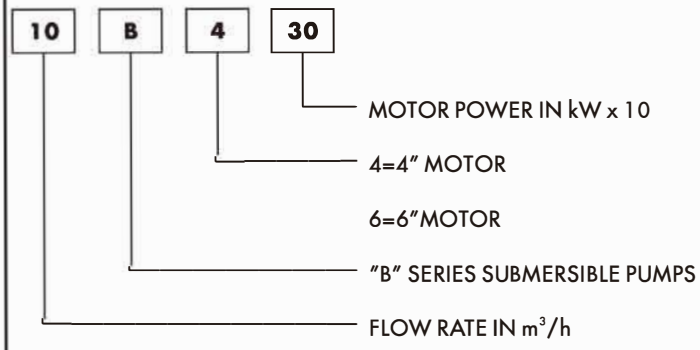


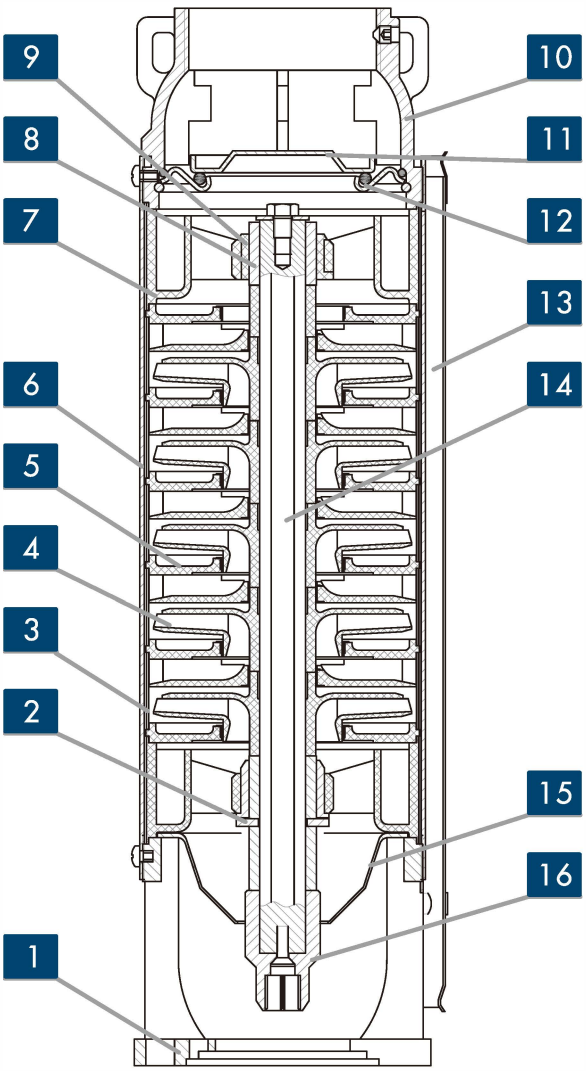
EXAMPLE OF PUMP TYPE

10B430

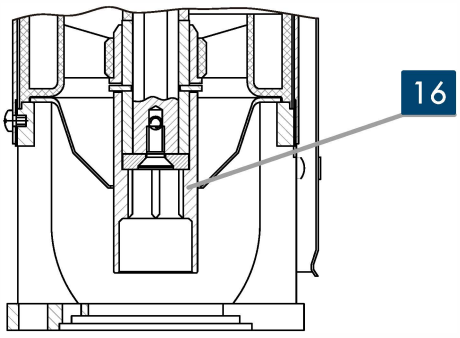
B series submersible pump , flow rate in 10 m³/h,with 4"motor 3,0 kW (4,0 Hp).

10B-20B SERIES

PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



10B4-20B4 SERIES

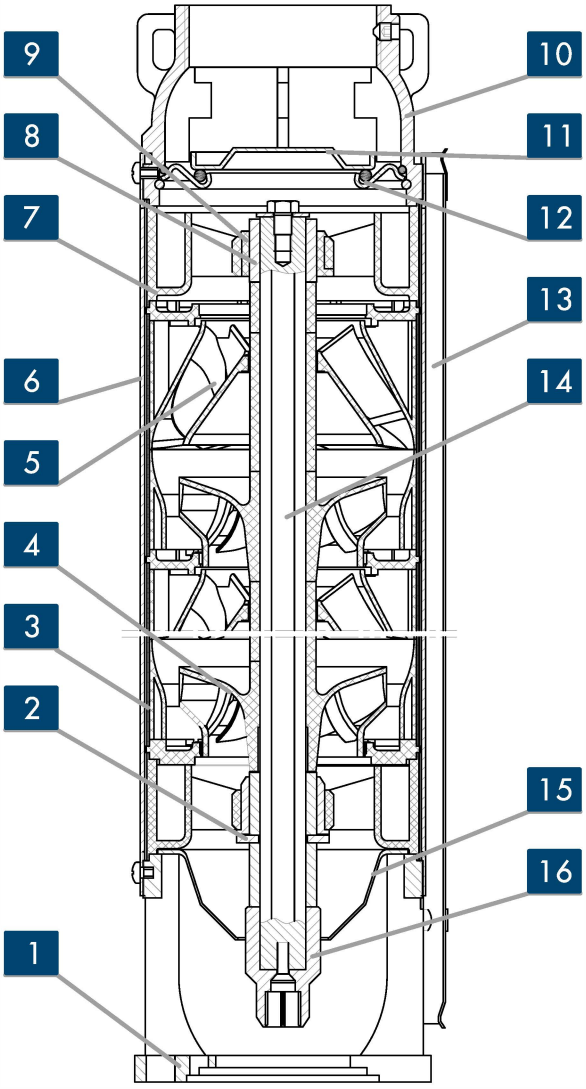


10B6-20B6 SERIES

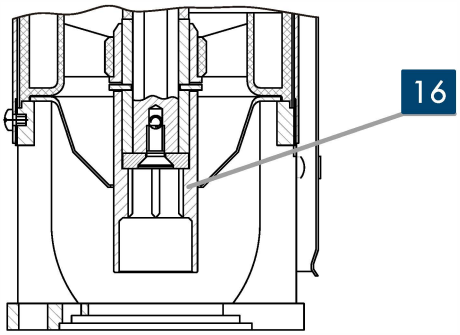
REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel	AISI 304
2	Thrust bearing	Stainless steel	AISI 304
3	Stage housing	Stainless steel	AISI 304
4	Impeller	Noryl® PPO	------
5	Diffuser	Noryl® PPO	------
6	Outer sleeve	Stainless steel	AISI 304
7	Upper support	Noryl® PPO	------
8	Shaft sleeve	Stainless steel	AISI 304
9	Bush bearing	TPU	------
10	Delivery port	Precision-cast stainless steel	AISI 304
11	Non-return valve	Stainless steel	AISI 304
12	Valve support with O ring	Stainless steel &NBR	AISI 304 &------
13	Cable guard	Stainless steel	AISI 304
14	Shaft	Stainless steel	AISI 420
15	Filter	Stainless steel	AISI 304
16	Coupling	Stainless steel	AISI 304

32B SERIES

PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



32B4 SERIES

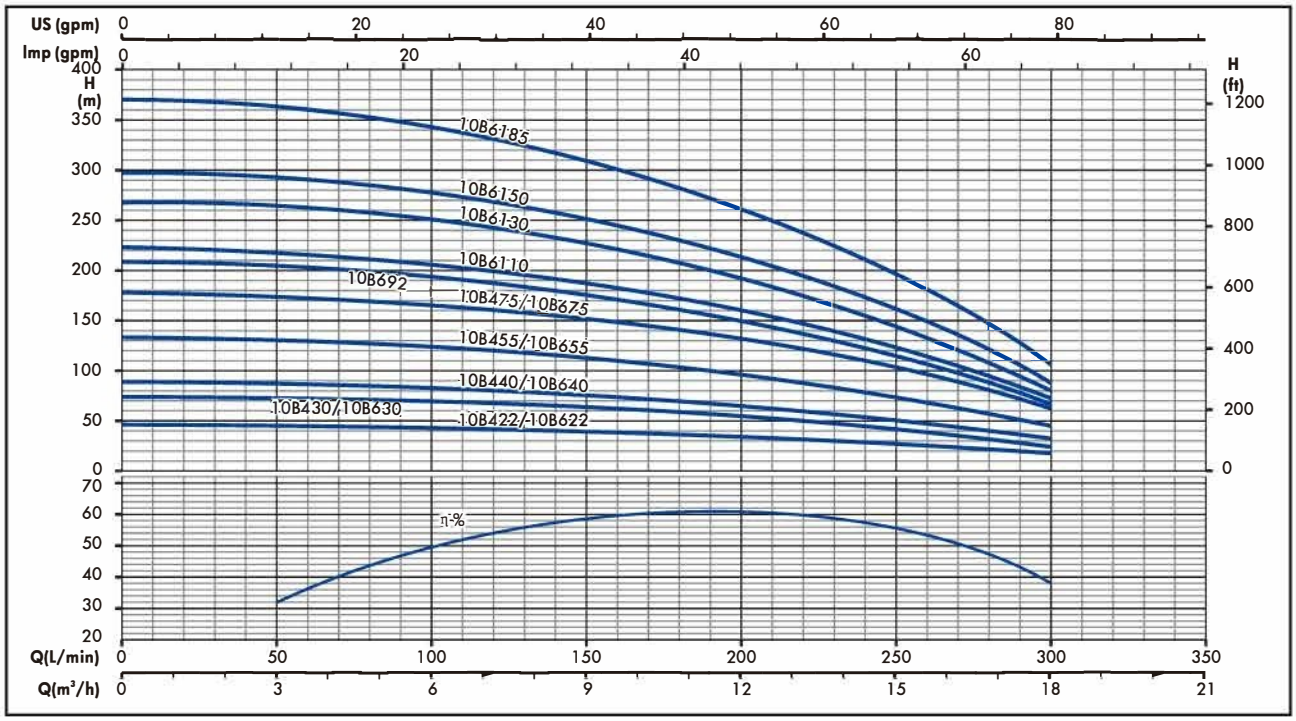


32B6 SERIES

REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel	AISI 304
2	Thrust bearing	Stainless steel	AISI 304
3	Stage housing	Stainless steel	AISI 304
4	Impeller	Noryl® PPO	------
5	Diffuser	Noryl® PPO	------
6	Outer sleeve	Stainless steel	AISI 304
7	Upper support	Noryl® PPO	------
8	Shaft sleeve	Stainless steel	AISI 304
9	Bush bearing	TPU	------
10	Delivery port	Precision-cast stainless steel	AISI 304
11	Non-return valve	Stainless steel	AISI 304
12	Valve support with O ring	Stainless steel &NBR	AISI 304 &------
13	Cable guard	Stainless steel	AISI 304
14	Shaft	Stainless steel	AISI 420
15	Filter	Stainless steel	AISI 304
16	Coupling	Stainless steel	AISI 304

10B SERIES

OPERATING CHARACTERISTICS AT 50 Hz

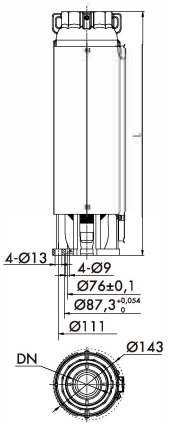


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min 0	100	150	200	250	300
				m³/h 0	6	9	12	15	18
				H=TOTAL HEAD METERS COLUMN OF WATER					
10B422	3	2,2	3,0	46	42	40	34	27	19
10B622									
10B430	5	3,0	4,0	74	70	64	54	42	26
10B630									
10B440	6	4,0	5,5	89	82	76	64	49	32
10B640									
10B455	9	5,5	7,5	133	124	113	96	72	45
10B655									
10B475	12	7,5	10	178	165	153	130	102	62
10B675									
10B692	14	9,2	12,5	208	193	176	149	116	67
10B6110	15	11	15	223	207	189	160	124	72
10B6130	18	13	17,5	268	251	226	192	145	80
10B6150	20	15	20	298	279	251	213	161	89
10B6185	25	18,5	25	373	347	310	260	198	106

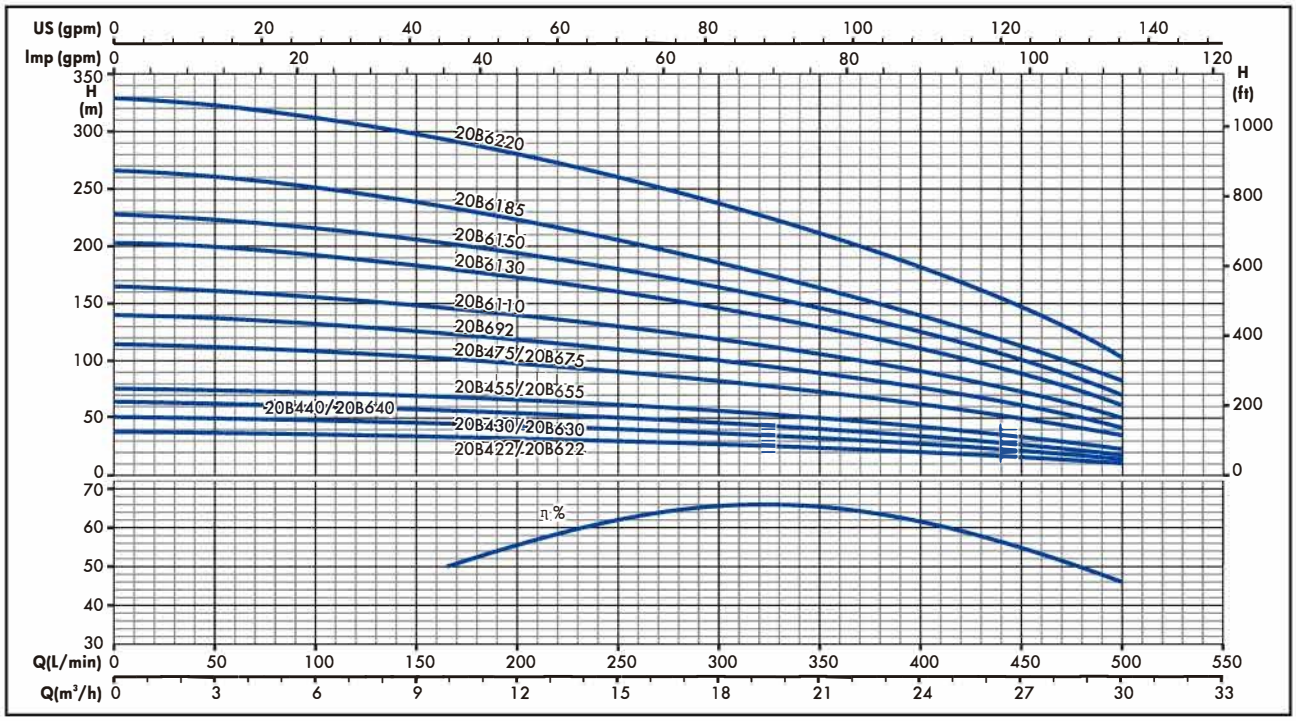
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L mm	PUMP WEIGHT Kg
10B422	3	G3"	403,5	7
10B622				7,5
10B430	5		479,5	8,5
10B630				9
10B440	6		517,5	9
10B640				9,5
10B455	9		631,5	11
10B655				11,5
10B475	12		745,5	13
10B675				13,5
10B692	14		821,5	15
10B6110	15		859,5	15,5
10B6130	18		973,5	17,5
10B6150	20		1049,5	19
10B6185	25		1291,5	23



20B SERIES

OPERATING CHARACTERISTICS AT 50 Hz

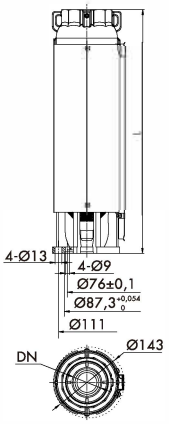


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min 0	150	250	350	400	500
				m³/h 0	9	15	21	24	30
				H=TOTAL HEAD METERS COLUMN OF WATER					
20B422 20B622	3	2,2	3,0	38	34	30	24	20	11
20B430 20B630	4	3,0	4,0	51	46	40	32	27	14,5
20B440 20B640	5	4,0	5,5	64	57	50	40	34	18
20B455 20B655	6	5,5	7,5	76	68	61	49	42	23
20B475 20B675	9	7,5	10	114	103	90	73	63	35
20B692	11	9,2	12,5	140	126	110	89	77	42
20B6110	13	11	15	165	149	130	105	91	50
20B6130	16	13	17,5	203	183	160	130	112	62
20B6150	18	15	20	228	206	180	146	126	70
20B6185	21	18,5	25	266	240	210	170	147	82
20B6220	26	22	30	329	298	260	211	182	101

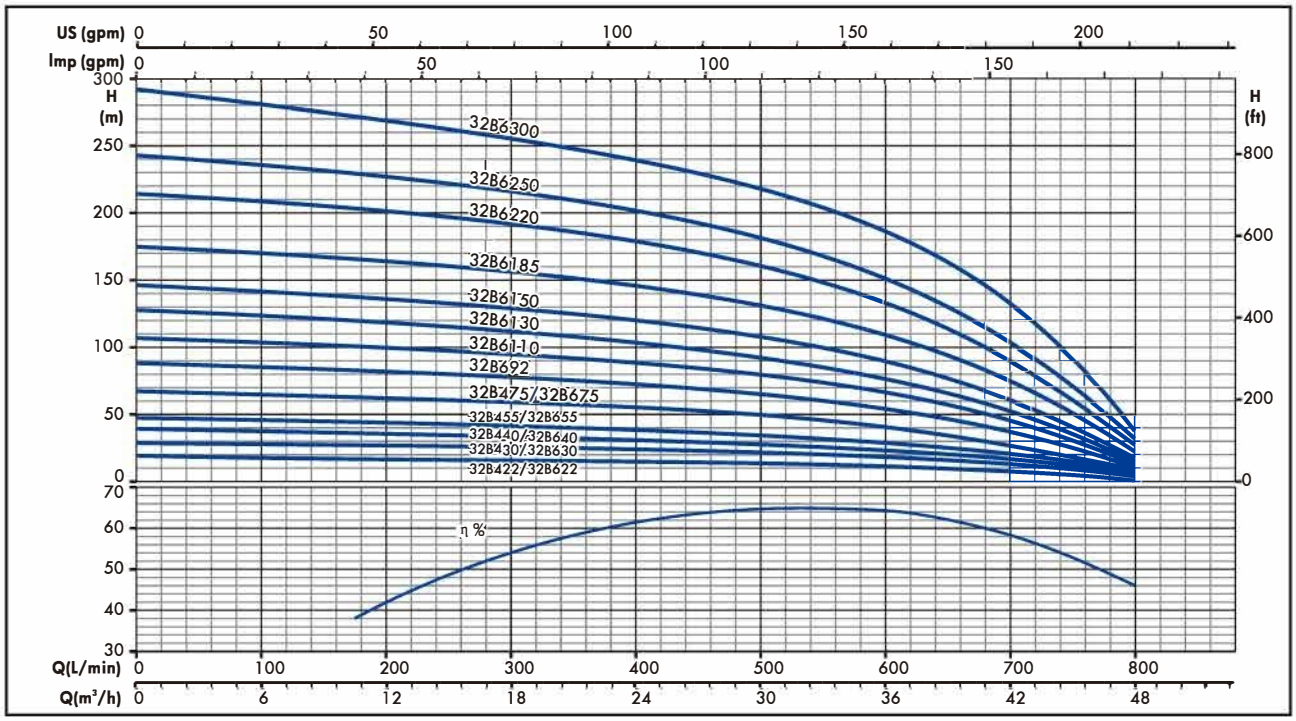
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L mm	PUMP WEIGHT Kg
20B422	3	G3"	436,5	8,5
20B622				9
20B430	4		485,5	9
20B630				9,5
20B440	5		534,5	9,5
20B640				10
20B455	6		583,5	10
20B655				10,5
20B475	9		730,5	12,5
20B675				13
20B692	11		828,5	14,5
20B6110	13		926,5	16,5
20B6130	16		1073,5	19
20B6150	18		1171,5	20,5
20B6185	21		1370,5	23,5
20B6220	26		1615,5	27,5



32B SERIES

OPERATING CHARACTERISTICS AT 50 Hz

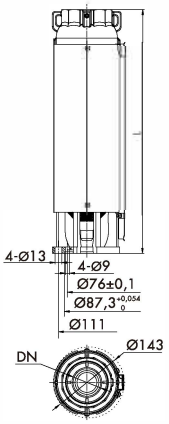


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY l/min 0	200	300	400	500	600	700	800
				m³/h 0	12	18	24	30	36	42	48
				H=TOTAL HEAD METERS COLUMN OF WATER							
32B422 32B622	2	2,2	3,0	19	17	16,5	15	14	11	8	2,5
32B430 32B630	3	3,0	4,0	29	26	25	23	21	17	12	4
32B440 32B640	4	4,0	5,5	39	35	33	31	28	23	16	5
32B455 32B655	5	5,5	7,5	48	43	42	38	35	28	20	7
32B475 32B675	7	7,5	10	68	61	58	54	49	40	28	9
32B692	9	9,2	12,5	88	82	78	73	65	55	37	11
32B6110	11	11	15	107	100	95	89	80	67	45	14
32B6130	13	13	18	127	118	112	104	94	78	52	16
32B6150	15	15	20	146	136	129	120	108	90	60	19
32B6185	18	18,5	25	175	165	156	146	131	110	75	23
32B6220	22	22	30	214	201	192	179	160	133	90	28
32B6250	25	25	34	243	230	215	201	181	151	103	32
32B6300	30	30	40	292	270	255	240	219	187	133	38

DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L mm	PUMP WEIGHT Kg
32B422	2	G3"	515,5	9
32B622				9,5
32B430	3		628,5	10,5
32B630				11
32B440	4		741,5	12
32B640				12,5
32B455	5		854,5	13,5
32B655				14
32B475	7		1080,5	17
32B675				17,5
32B692	9		1306,5	20,5
32B6110	11		1584,5	24,5
32B6130	13		1810,5	28
32B6150	15		2036,5	31,5
32B6185	18		2427,5	37
32B6220	22		2879,5	44
32B6250	25		3218,5	49
32B6300	30		3835,5	57,5



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^3/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^3.
- Standard delivery port: Rp 3".

MOTOR

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

CONSTRUCTION CHARACTERISTICS

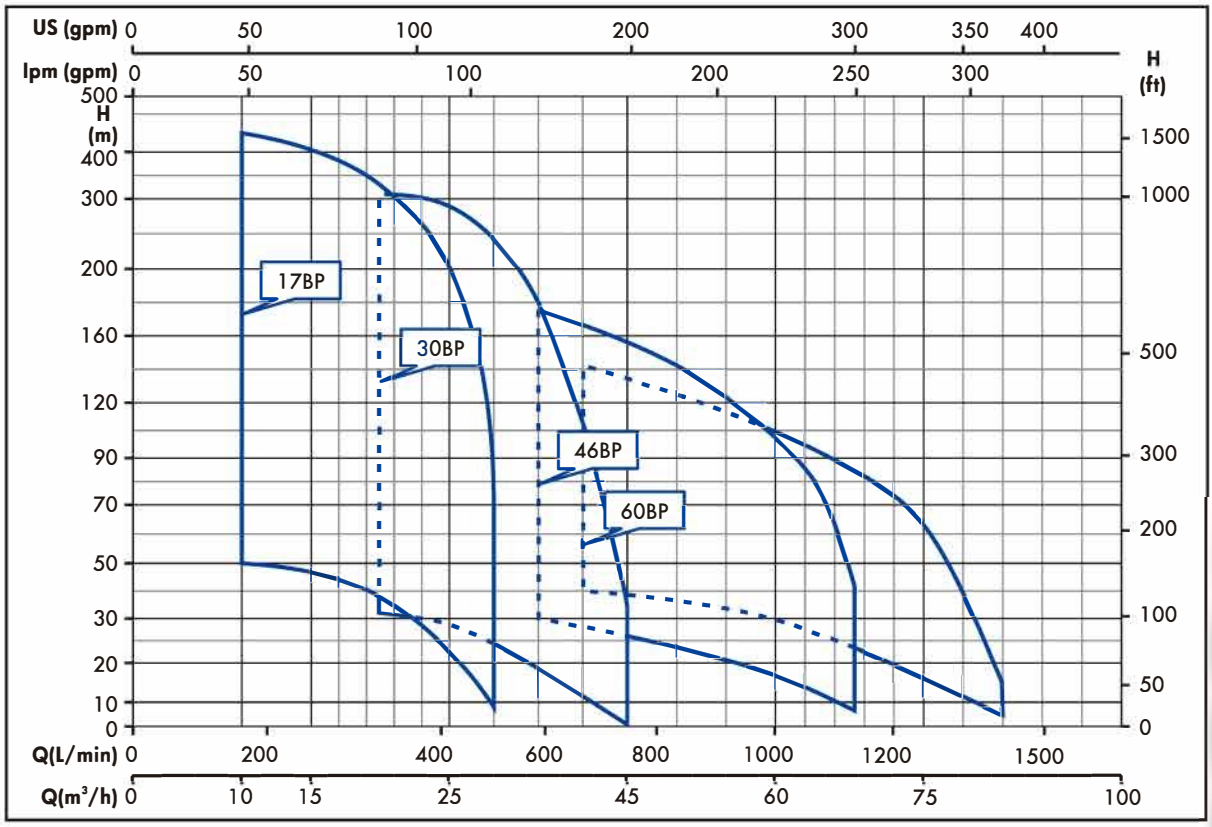
- Sturdy and lightweight, easy to maintain and resistant to corrosion in non-aggressive environments.
- High efficient hydraulic design for cost saving and best performance.
- Stainless steel built-in non-return valve.
- Stainless steel impellers and diffusers.
- Stainless steel delivery port and suction 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

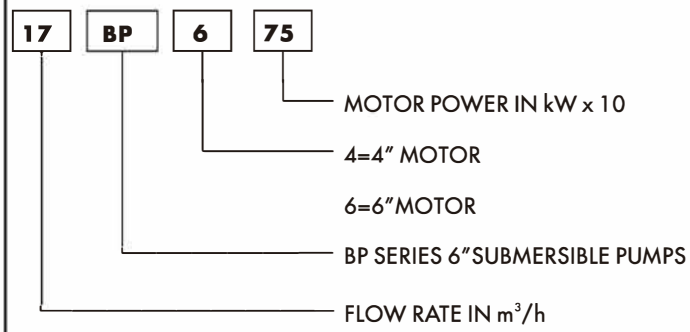
- Different voltages and frequencies.
- Delivery port: Rp4".

BP SERIES

HYDRAULIC PERFORMANCE RANGE AT 50 Hz



IDENTIFICATION CODE



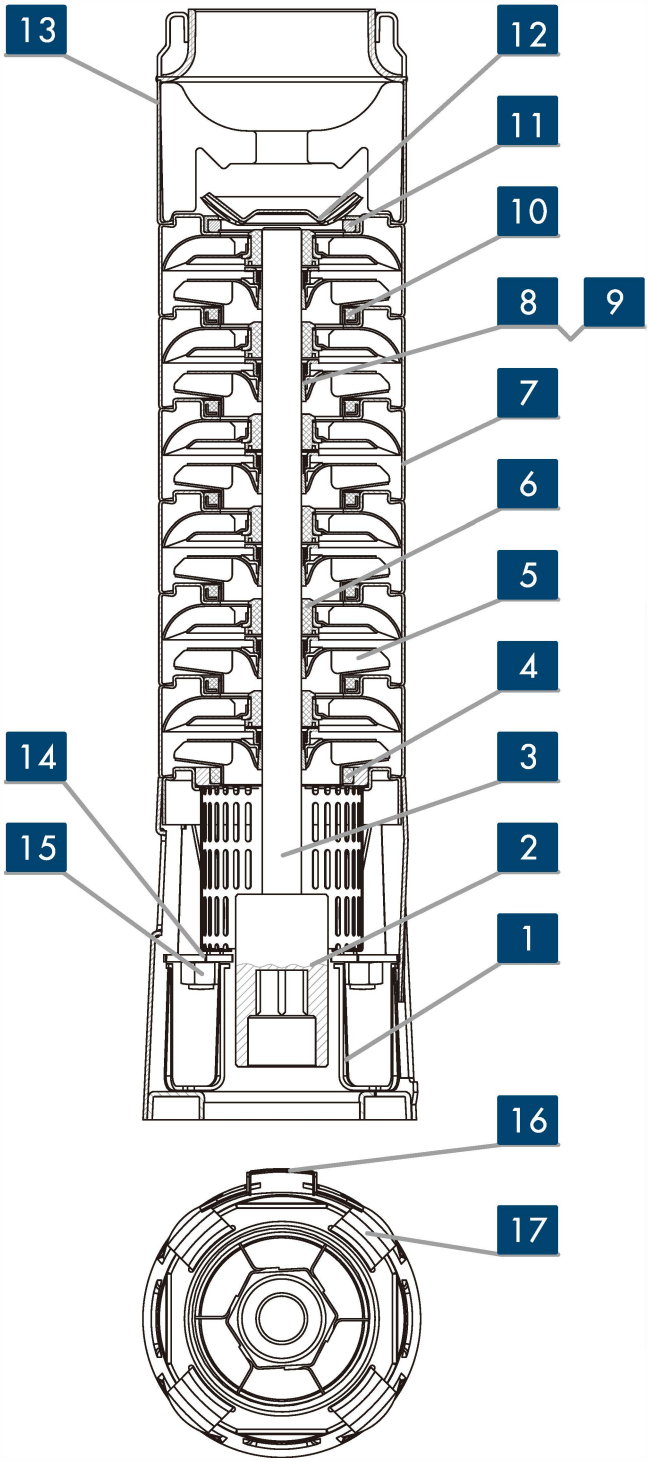
EXAMPLE OF PUMP TYPE

17BP675

BP series submersible pump,flow rate 17 m³/h,coupled to a 6" submersible motor 7,5 kW (10 Hp).

17BP SERIES

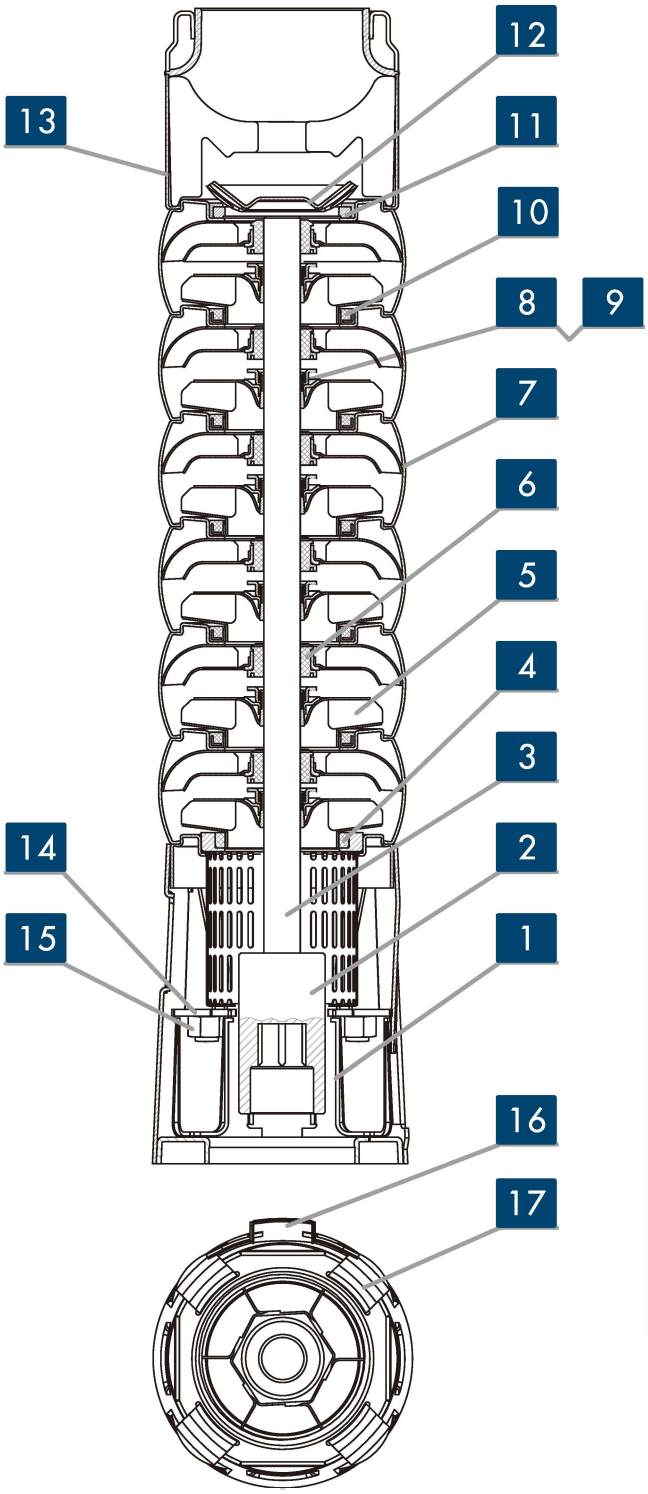
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



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

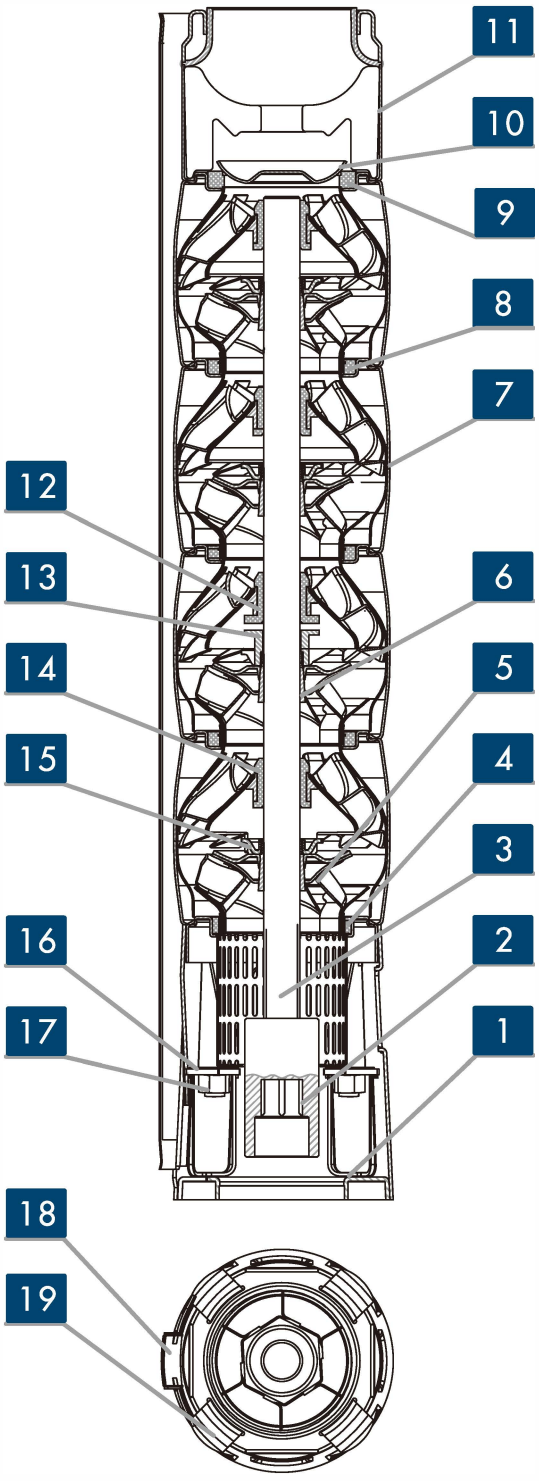
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



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

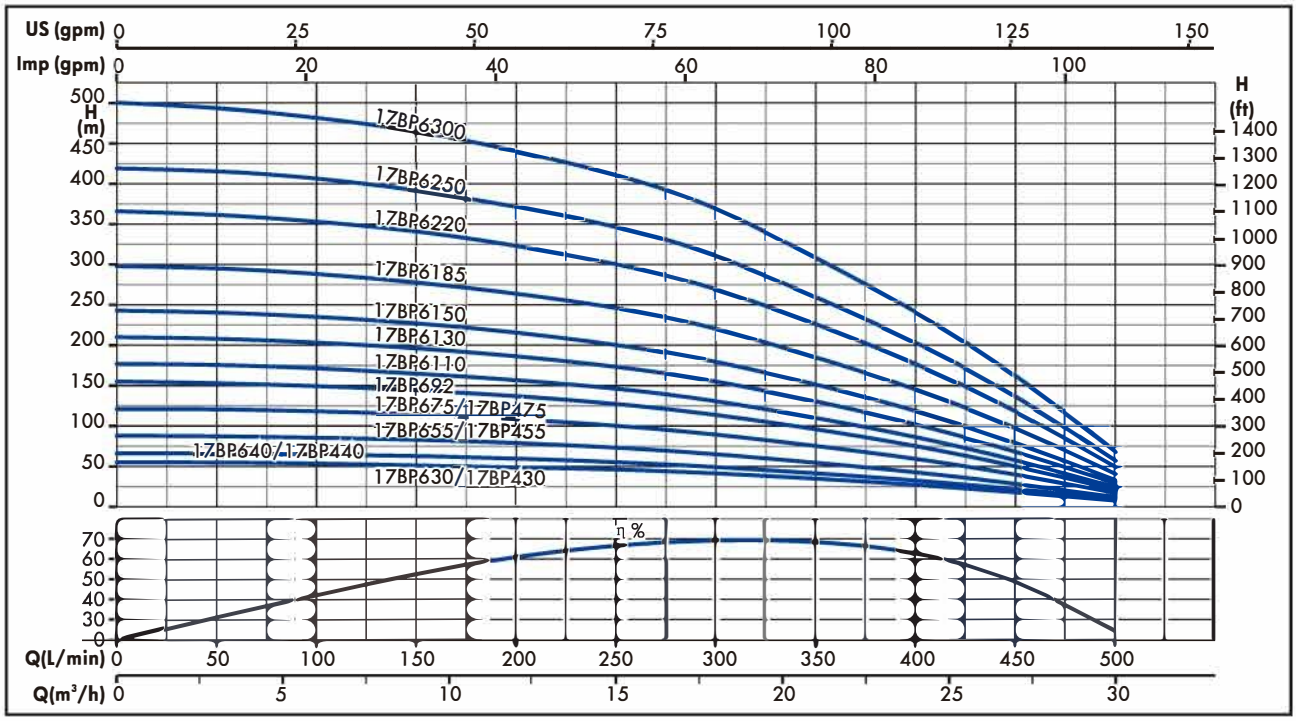
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



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

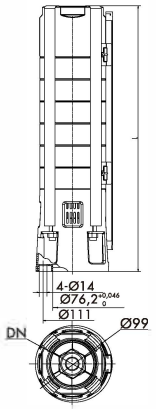


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY L/min 0	83	167	250	283	333	417	500
				m³/h 0	5	10	15	17	20	25	30
				H=TOTAL HEAD METERS COLUMN OF WATER							
17BP430 / 17BP630	5	3,0	4,0	55	54	50	46	43	37	24	8
17BP440 / 17BP640	6	4,0	6,0	66	65	60	55	51	44	29	9
17BP455 / 17BP655	8	5,5	7,5	88	86	80	73	68	58	38	12
17BP475 / 17BP675	11	7,5	10	121	119	110	100	94	80	53	17
17BP692	14	9,2	12,5	155	151	140	127	119	102	67	21
17BP6110	16	11	15	177	173	160	146	136	117	77	24
17BP6130	19	13	17,5	210	205	190	173	162	139	91	29
17BP6150	22	15	20	243	237	220	200	187	161	106	33
17BP6185	27	18,5	25	298	291	270	246	230	197	130	41
17BP6220	33	22	30	364	356	330	300	281	241	158	50
17BP6250	38	25	35	419	410	380	346	323	277	182	57
17BP6300	45	30	40	500	486	450	410	383	329	216	68

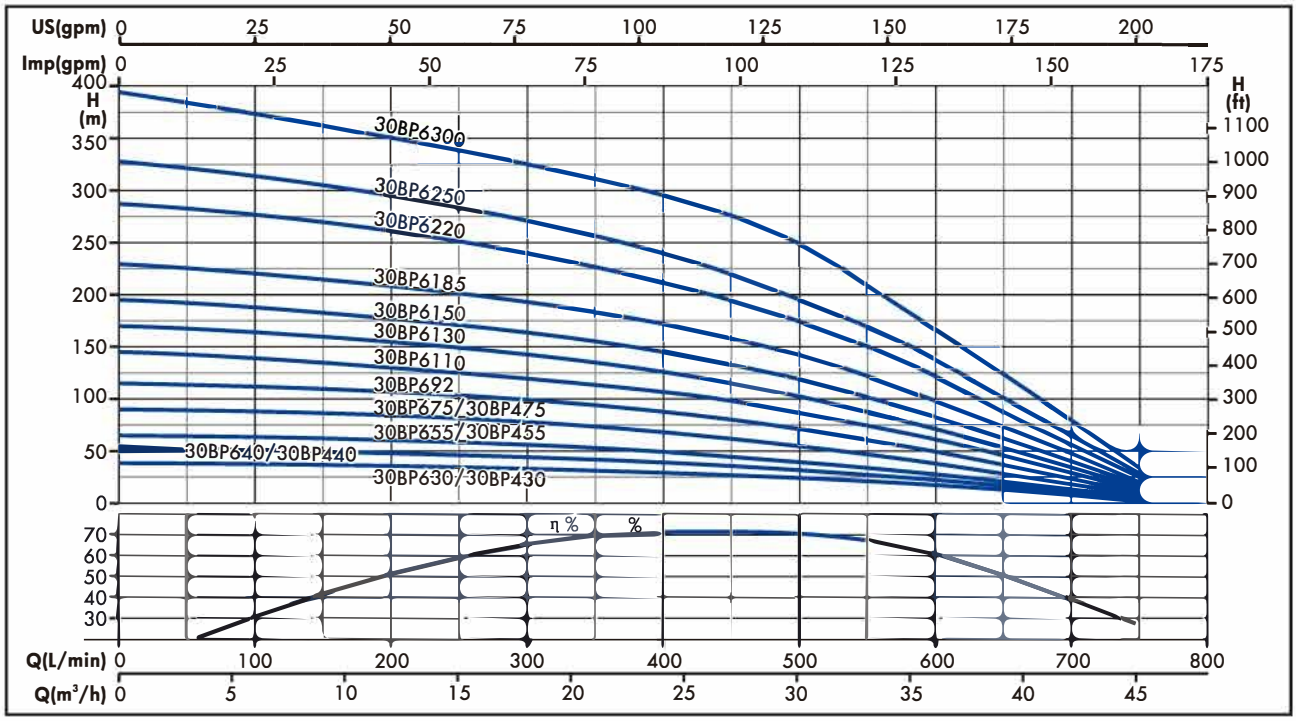
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L mm	PUMP WEIGHT kg
17BP630	5	Rp3"	497	8,7
17BP430			472	8,3
17BP640	6		542	9,6
17BP440			517	9,2
17BP655	8		656	11,4
17BP455			681	11
17BP675	11		741	14,1
17BP475			766	4,2
17BP692	14		901	16,8
17BP6110	16		991	18,6
17BP6130	19		1126	21,3
17BP6150	22		1261	24
17BP6185	27		1486	28,5
17BP6220	33		1756	33,9
17BP6250	38		1981	38,4
17BP6300	45		2296	44,7



30BP SERIES

OPERATING CHARACTERISTICS AT 50 Hz

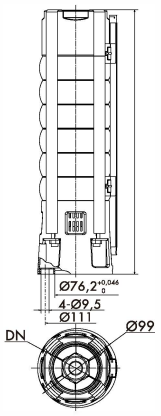


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	NO.OF STAGES	kW	Hp	Q=DELIVERY L/min	167	333	417	500	583	667	750
				m³/h	10	20	25	30	35	40	45
				H=TOTAL HEAD METERS COLUMN OF WATER							
30BP430 30BP630	3	3,0	4,0	39	36	32	28	24	18	11	3
30BP440 30BP640	4	4,0	6,0	52	48	42	38	32	24	14	4
30BP455 30BP655	5	6,0	8,0	64	60	53	47	40	30	18	6
30BP475 30BP675	7	8,0	10	90	84	74	66	55	42	25	8
30BP692	9	9,2	12,5	116	108	95	85	70	54	32	10
30BP6110	11	11	15	144	132	116	103	86	66	40	12
30BP6130	13	13	17,5	170	156	137	122	102	78	47	14
30BP6150	15	15	20	197	180	158	141	120	90	54	17
30BP6185	18	18,5	25	236	215	189	169	142	108	65	20
30BP6220	22	22	30	288	263	231	207	175	132	79	24
30BP6250	25	25	35	328	299	263	235	195	150	90	28
30BP6300	30	30	40	393	359	315	282	235	180	108	33

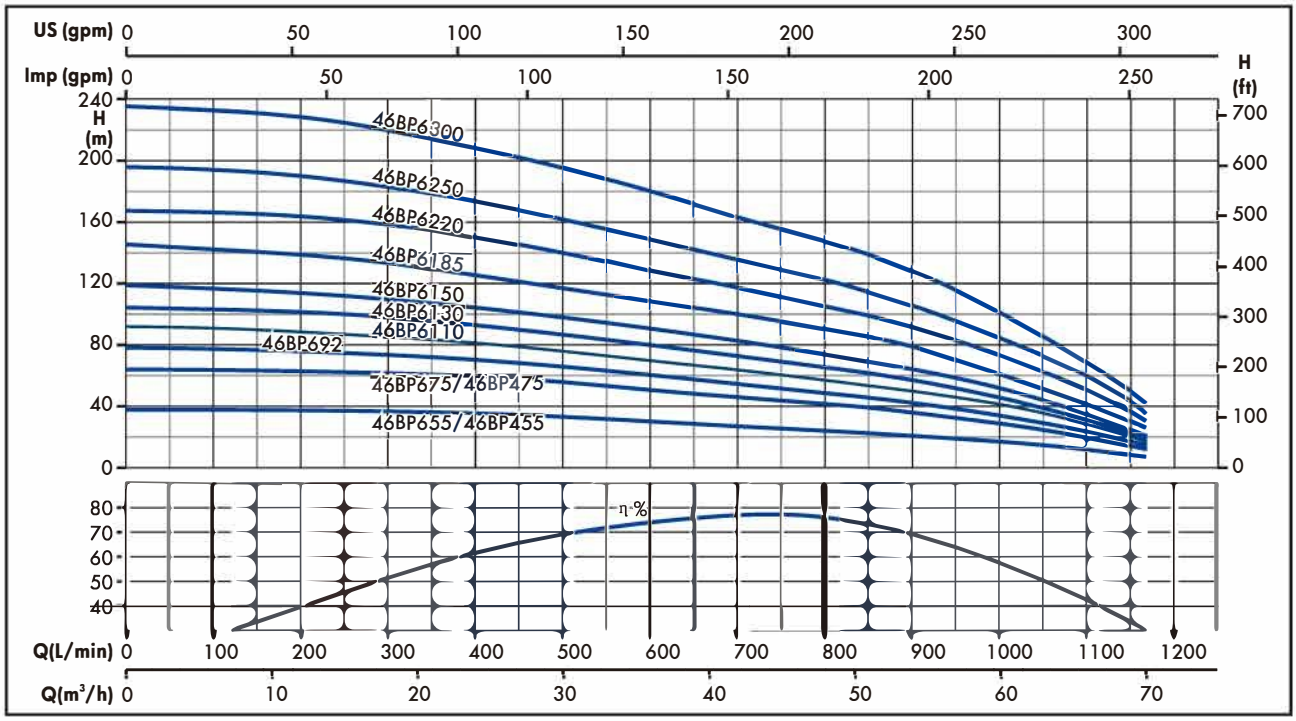
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L mm	PUMP WEIGHT kg
30BP630	3	Rp3"	441,5	7,2
30BP430			416,5	6,8
30BP640	4		498	8,2
30BP440			473	7,8
30BP655	5		554	9,2
30BP455			529	8,8
30BP675	7		667	11,2
30BP475			642	10,8
30BP692	9		780	13,2
30BP6110	11		893	15,2
30BP6130	13		1006	17,2
30BP6150	15		1119	19,2
30BP6185	18		1288	22,2
30BP6220	22		1514	26,2
30BP6250	25		1684	29,2
30BP6300	30		1966	34,2



46BP SERIES

OPERATING CHARACTERISTICS AT 50 Hz

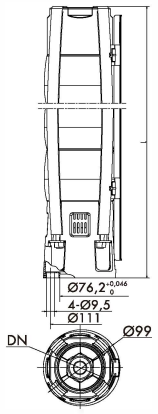


OPERATING CHARACTERISTICS AT 50 Hz

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 / 46BP655	3	5,5	7,5	38	38	36	30	28	26	23	21	17	12	7
46BP475 / 46BP675	5	7,5	10	64	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

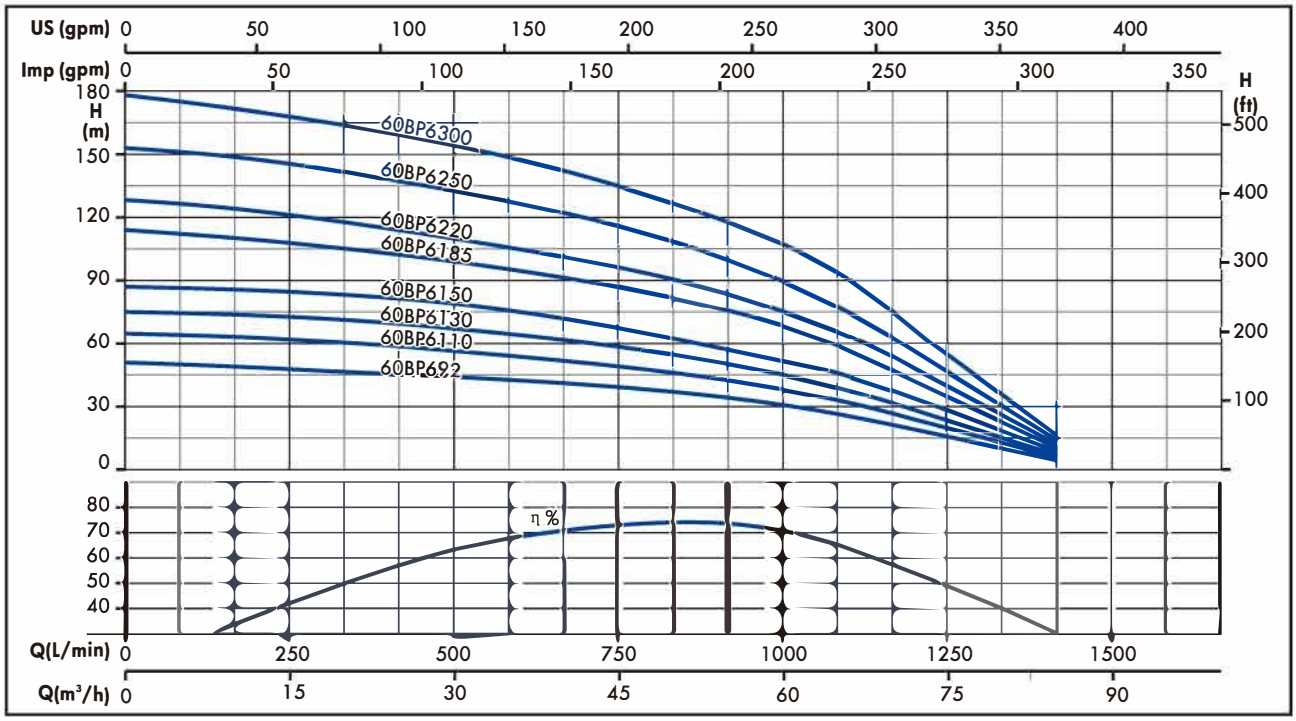
DIMENSIONS AND WEIGHTS AT 50 Hz

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

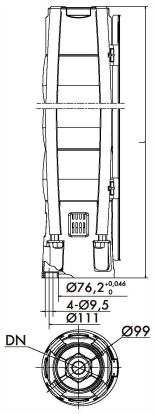


OPERATING CHARACTERISTICS AT 50 Hz

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



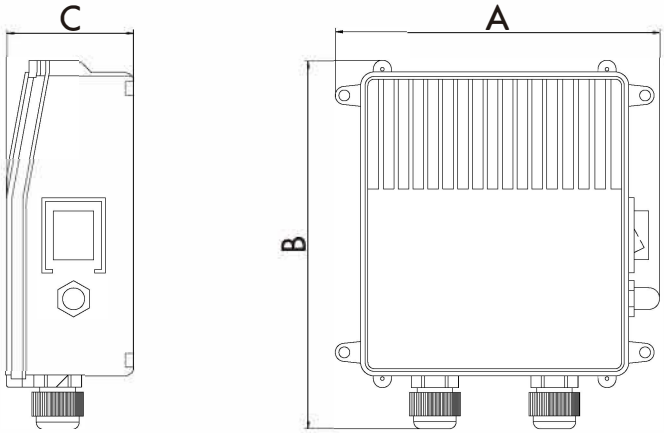
CB SERIES SINGLE-PHASE ELECTRIC PANEL

APPLICATIONS

- Protection and control of a single-phase submersible electric pump for 4" wells.

SPECIFICATIONS

- Supply voltage: 1 x 220 V ±5%.
- Frequency: 50 Hz.
- Power: 0,25 to 2,2 kW.
- Protection class: IP54.
- Ambient temperature: 0 °C to +40 °C.
- Relative humidity: ≤ 90%
- Altitude: ≤ 2000m



CONSTRUCTION &CHARACTERISTICS

- Main switch for manual control.
- Direct motor start.
- Mounting mode: wall mounted.
- Plastic enclosure
- Incorporated capacitor.
- Thermal protection with motor protector inside the panel.

PANEL TYPE	VOLTAGE V	POWER		CURRENT A	CAPACITOR µF/450V	A mm	B mm	C mm	WEIGHT Kg
		kW	Hp						
CB02S	220	0,25	0,33	2,35	16	175	212	83	0,525
CB03S	220	0,37	0,5	3,3	22	175	212	83	0,550
CB05S	220	0,55	0,75	4,63	25	175	212	83	0,560
CB07S	220	0,75	1,0	6,0	30	175	212	83	0,600
CB11S	220	1,1	1,5	8,4	43	175	212	83	0,625
CB15S	220	1,5	2,0	11	65	175	212	83	0,655
CB22S	220	2,2	3,0	15,8	70	175	212	83	0,725

BK SERIES THREE-PHASE ELECTRIC PANEL

APPLICATIONS

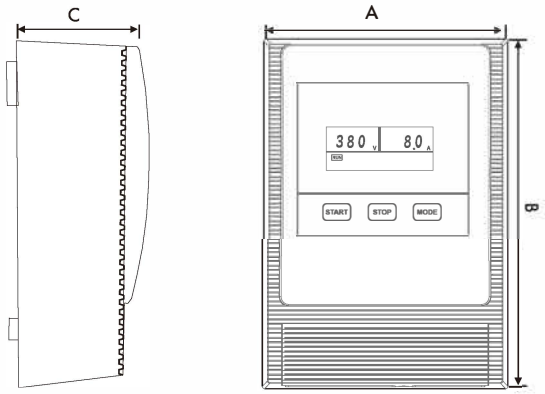
- Protection and control of a three-phase surface or submersible electric pump.

SPECIFICATIONS

- Supply voltage: 3 x 380 V ±10%.
- Frequency: 50/ 60 Hz.
- Power: 0,37 to 15 kW.
- Protection class: IP54.
- Ambient temperature: 0°C to +40°C.
- Relative humidity: ≤ 90%.
- Altitude: ≤ 2000 m.

CONSTRUCTION &CHARACTERISTICS

- Control mode: Manual/Automatic.
- Direct motor start.
- Over current protection.
- Motor stalling protection.
- Short-circuit protection.
- Phase loss protection.
- No sensor dry running protection.
- Undervoltage / overvoltage protection.
- Liquid level control: pulse electrode sensor. or float switch detection.
- Pressure control: tri-wire electric contact pressure. gauge/dual-wire pressure switch.
- Display: HD LCD dynamic display.
- Complete protection function under automatic/manual mode.
- Quick Five faults record query.
- Pump total run time query.
- Liquid level/pressure direct interconvert switch.
- LCD voltage/current display.
- Installation mode: wall mounted.



PANEL TYPE	VOLTAGE V	POWER		CURRENT A	A mm	B mm	C mm	WEIGHT Kg
		kW	Hp					
BK-0,37CK(S)	380	0,37	0,5	1,4	160	228	73	1,2
BK-0,55CK(S)	380	0,55	0,75	2,5	160	228	73	1,2
BK-0,75CK(S)	380	0,75	1,0	2,5	160	228	73	1,2
BK-1,1CK(S)	380	1,1	1,5	3,4	160	228	73	1,2
BK-1,5CK(S)	380	1,5	2,0	4,4	160	228	73	1,2
BK-2,2CK(S)	380	2,2	3,0	6,2	160	228	73	1,2
BK-3,0CK(S)	380	3,0	4,0	8,3	160	228	73	1,2
BK-4,0CK(S)	380	4,0	5,5	10,8	160	228	73	1,2
BK-5,5CK(S)	380	5,5	7,5	14,4	160	228	73	1,2
BK-7,5CK(S)	380	7,5	10	19	160	228	73	1,2
BK-11CK(S)	380	11	15	26,5	160	228	73	1,2
BK-15CK(S)	380	15	20	36	160	228	73	1,2
BK-18,5CK(S)	380	18,5	25	43,5	160	228	73	1,2