

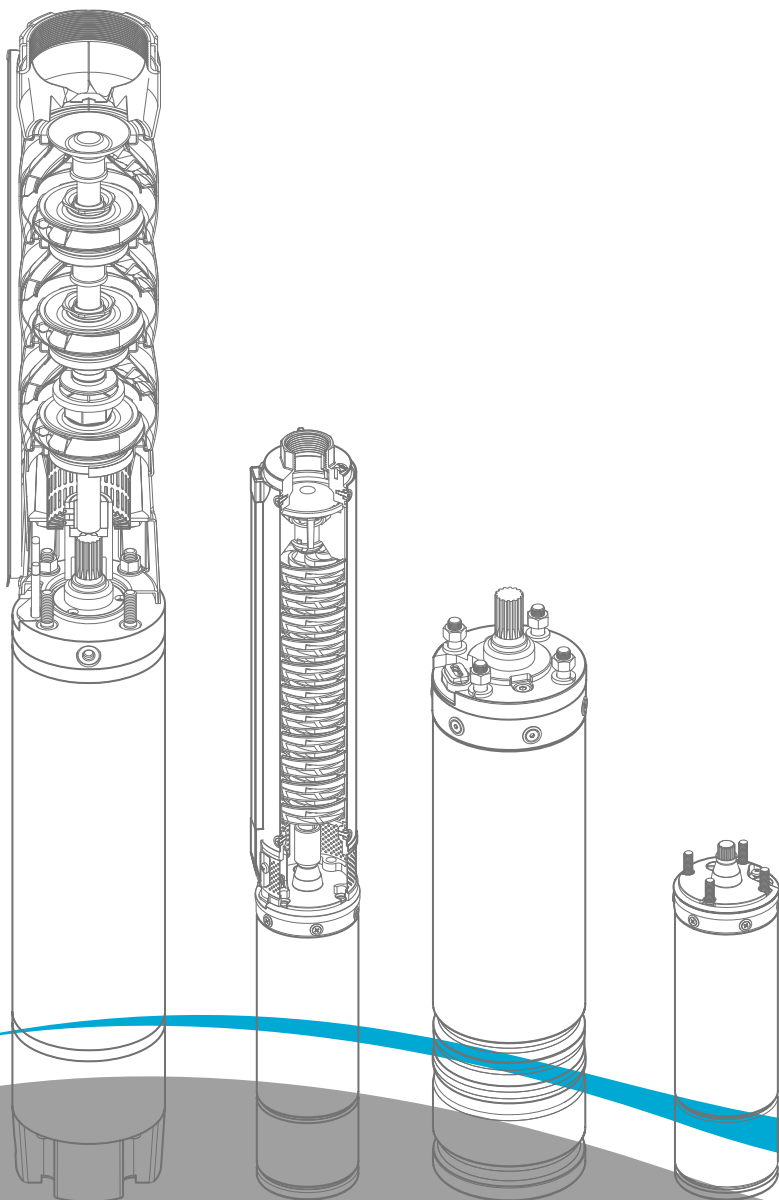
# Elettropompe Sommerse

*Submersed Electropump*

**BH SERIES 4" SUBMERSIBLE ELECTRIC PUMPS**

## Technical Catalogue

Catalogo Tecnico



**IRCEM**  
WATER PUMPS

## 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<sup>3</sup>/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<sup>3</sup>.
- 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

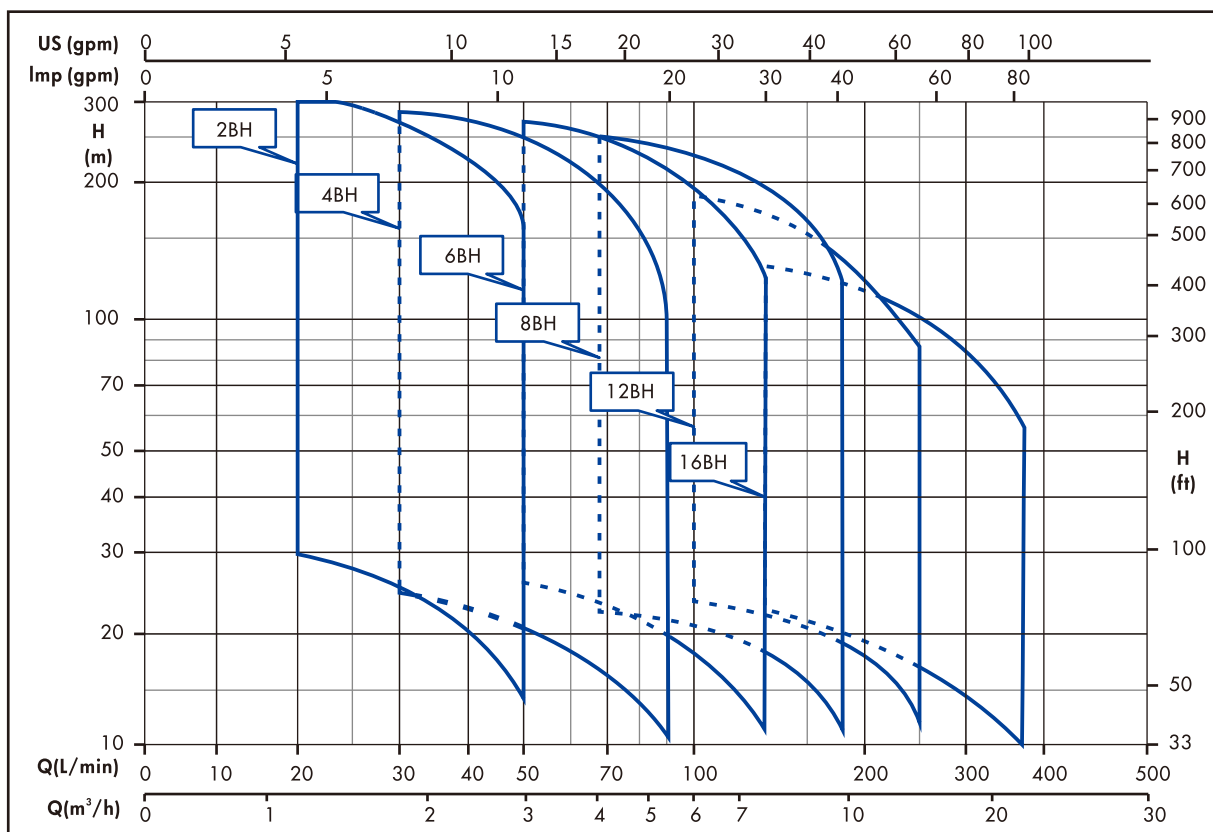
- Easy to maintain and rapid to install.
- Abrasion resistant construction, Floating impellers ensure optimum resistance to abrasion.
- The delivery port and suction support are made of precision-cast stainless steel, guarantee resistance to corrosion, durability and a sturdy coupling to the motor.
- 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

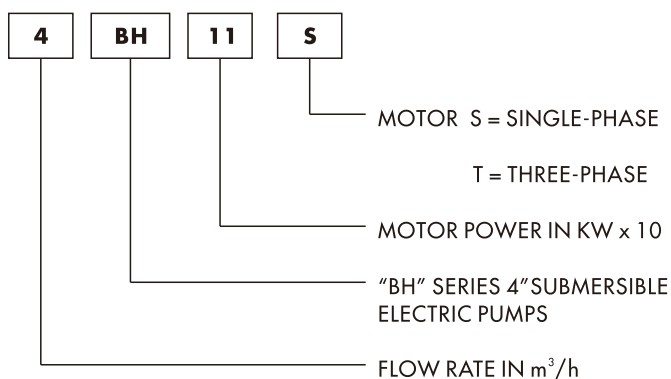
- Different voltages and frequencies.
- Different materials.

## BH SERIES

### HYDRAULIC PERFORMANCE RANGE AT 50 Hz



#### IDENTIFICATION CODE



#### EXAMPLE OF PUMP TYPE

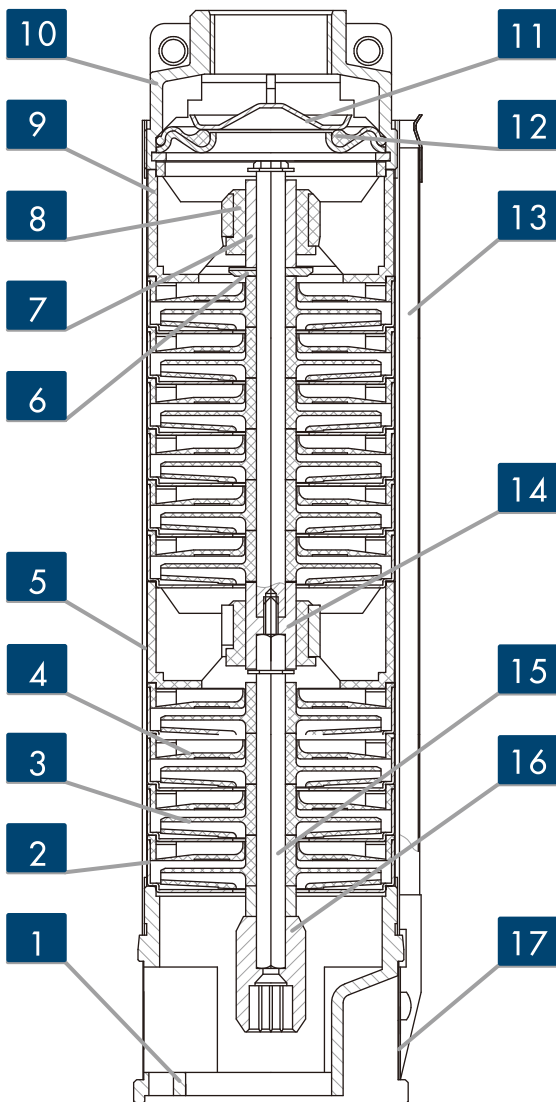
4BH11S

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



## 2BH-4BH SERIES

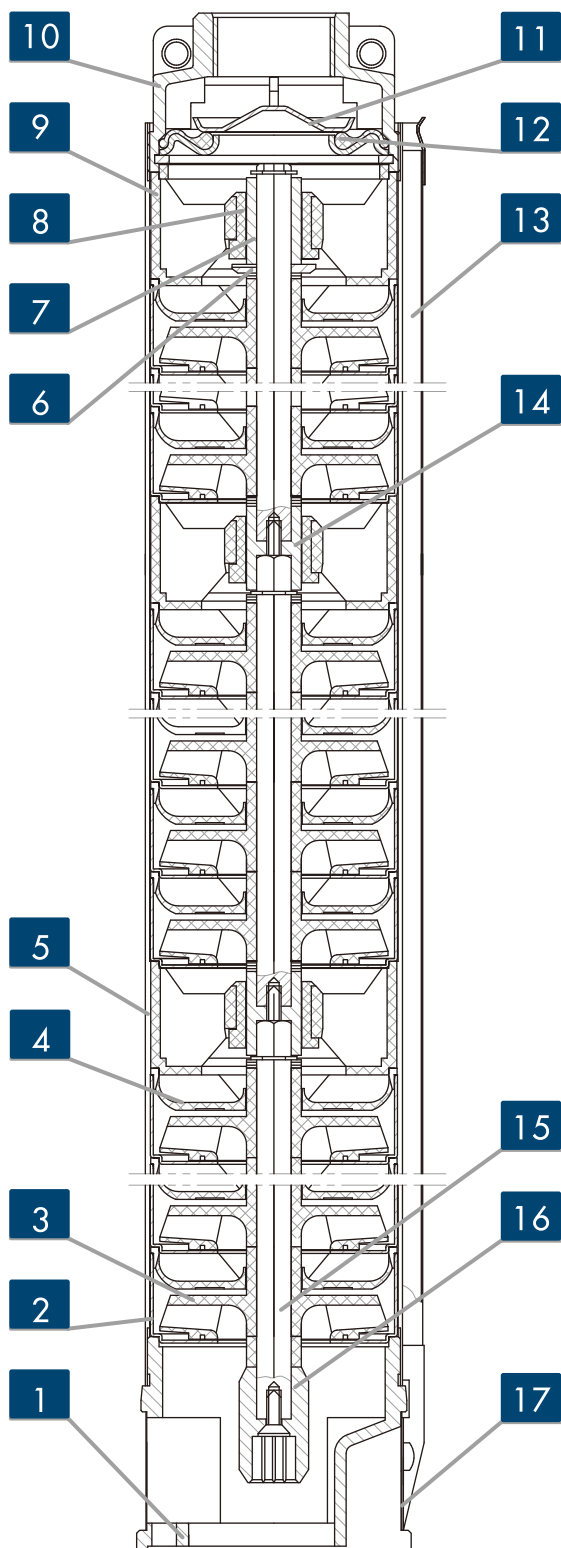
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



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

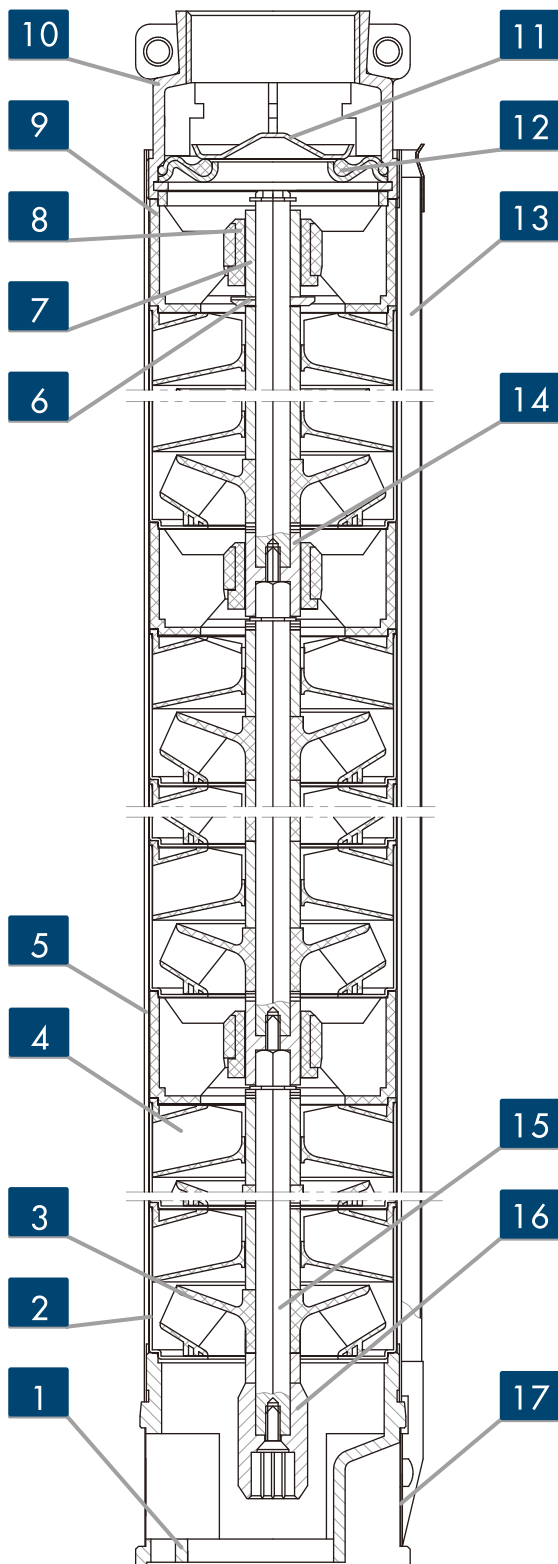
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



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

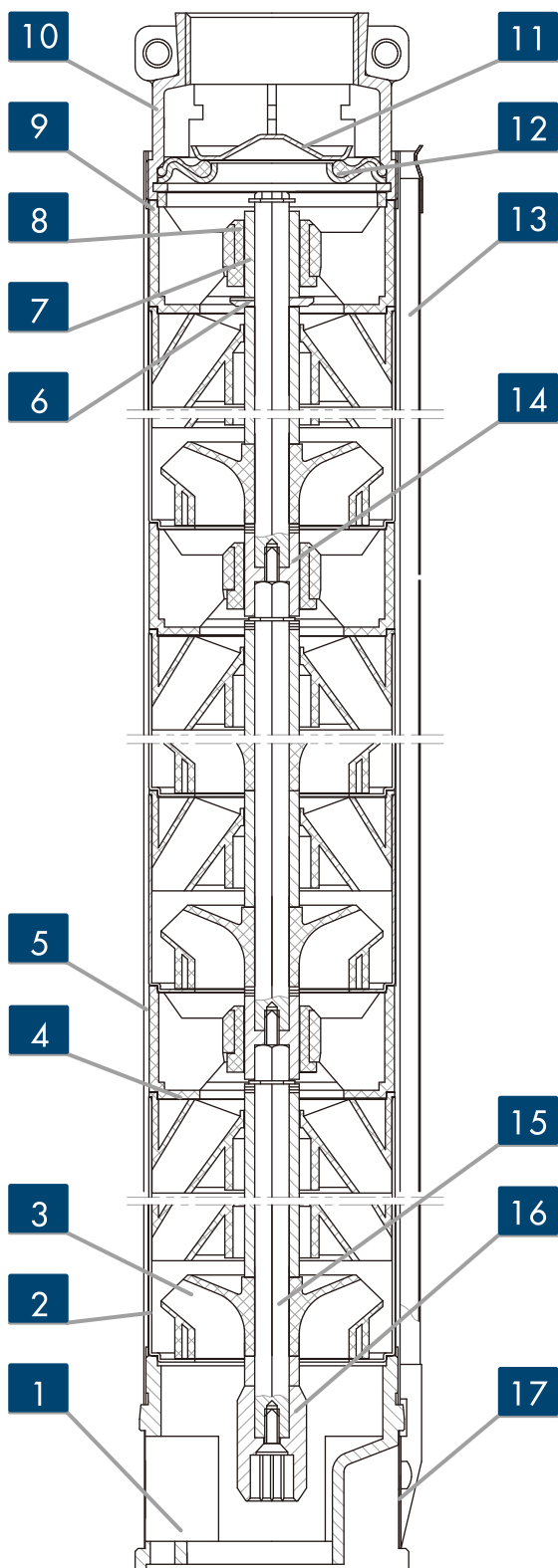
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



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

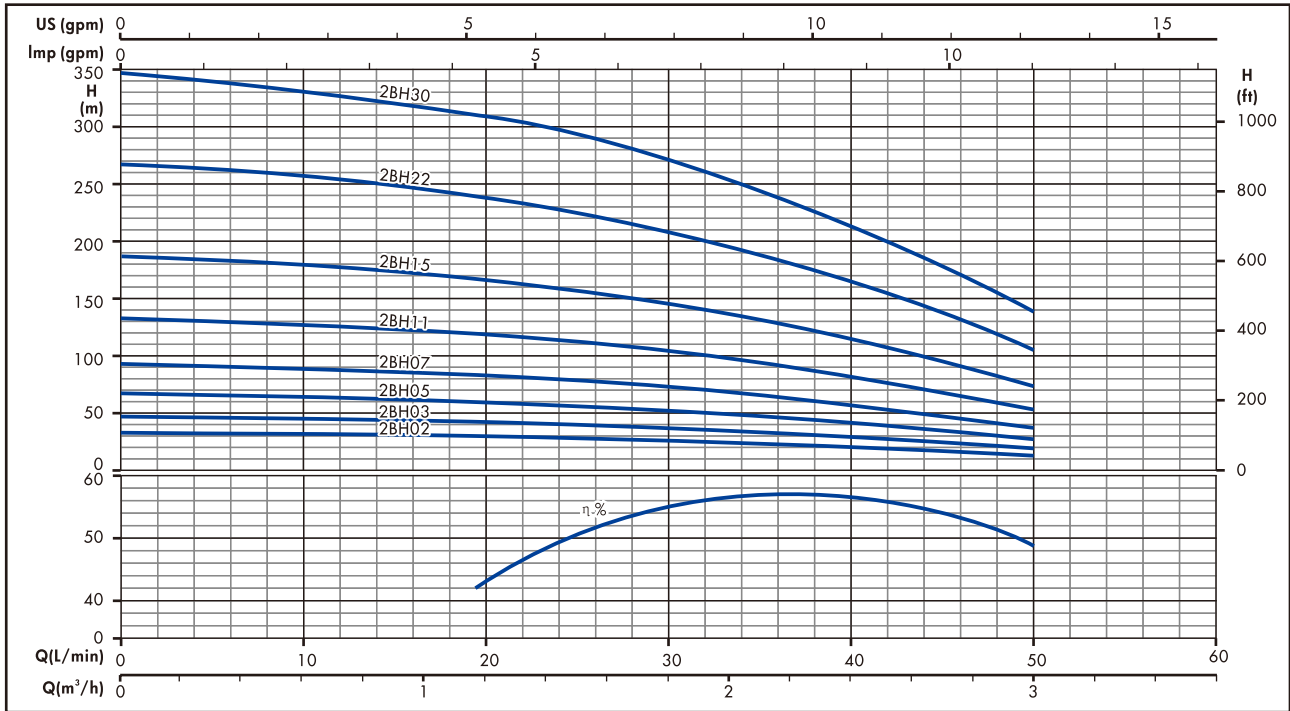
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



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

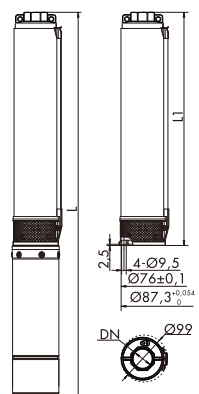


### OPERATING CHARACTERISTICS AT 50 Hz

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	7	0,37	0,5	47	42	40	36	29	19
2BH03T									
2BH05S	10	0,55	0,7	67	60	56	52	41	27
2BH05T									
2BH07S	14	0,75	1,0	93	83	79	73	57	37
2BH07T									
2BH11S	20	1,1	1,5	133	119	113	104	82	53
2BH11T									
2BH15S	28	1,5	2,0	187	167	158	146	115	74
2BH15T									
2BH22S	40	2,2	3,0	267	238	226	208	164	106
2BH22T									
2BH30T	52	3,0	4,0	347	309	294	271	213	138

### DIMENSIONS AND WEIGHTS AT 50 Hz

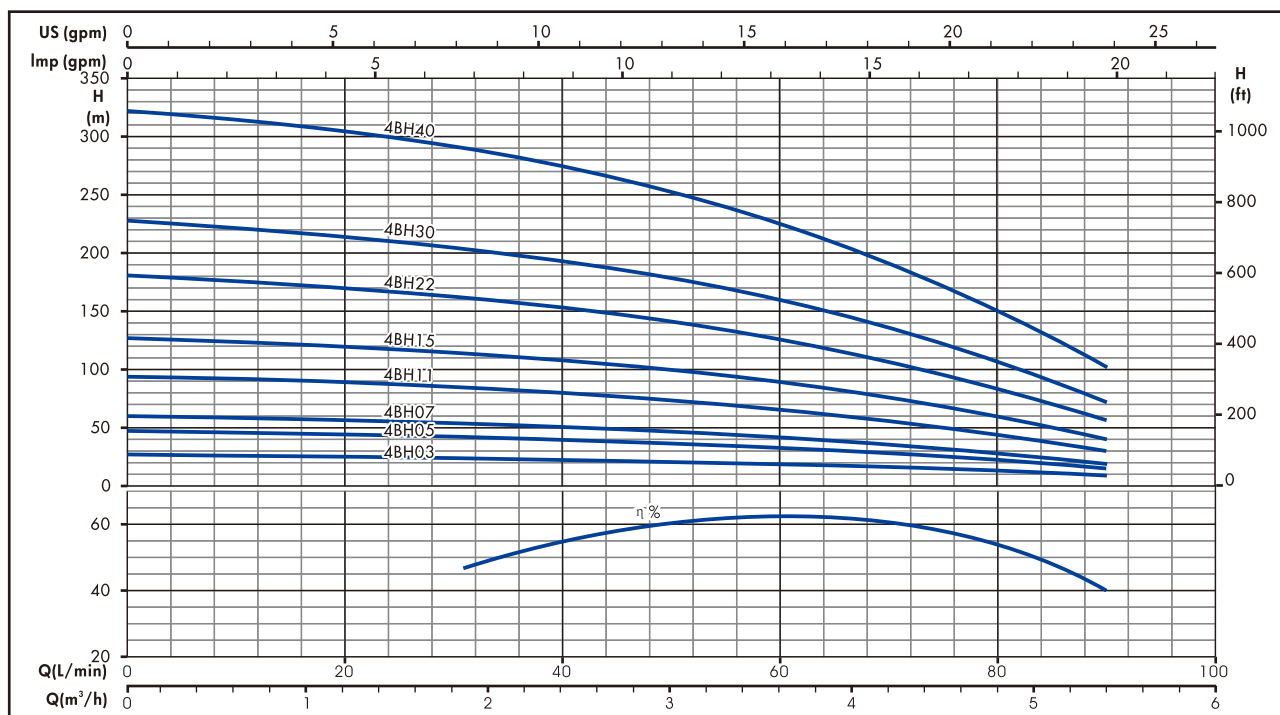
PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP Weight Kg	ELECTRIC PUMP Weight Kg
2BH02S	5	Rp1"1/4	252	579	2,3	10,1
2BH03S	7		287	624	2,7	10,9
2BH03T						
2BH05S	10		340	692	3,2	12,1
2BH05T						
2BH07S	14		411	783	3,9	13,7
2BH07T						
2BH11S	20		516	913	5	16,1
2BH11T						
2BH15S	28		657	1094	6,4	19,4
2BH15T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





## 4BH SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

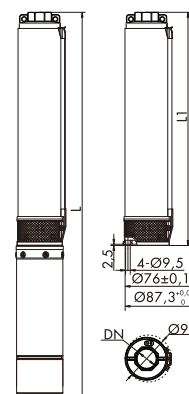


### OPERATING CHARACTERISTICS AT 50 Hz

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	4	0,37	0,5	27	24	23	21	19	13	9
4BH03T										
4BH05S	7	0,55	0,7	47	42	40	37	33	22	15
4BH05T										
4BH07S	9	0,75	1,0	60	54	51	47	42	28	19
4BH07T										
4BH11S	14	1,1	1,5	94	84	80	74	66	44	30
4BH11T										
4BH15S	19	1,5	2,0	127	114	108	100	89	60	40
4BH15T										
4BH22S	27	2,2	3,0	181	162	154	142	127	85	57
4BH22T										
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

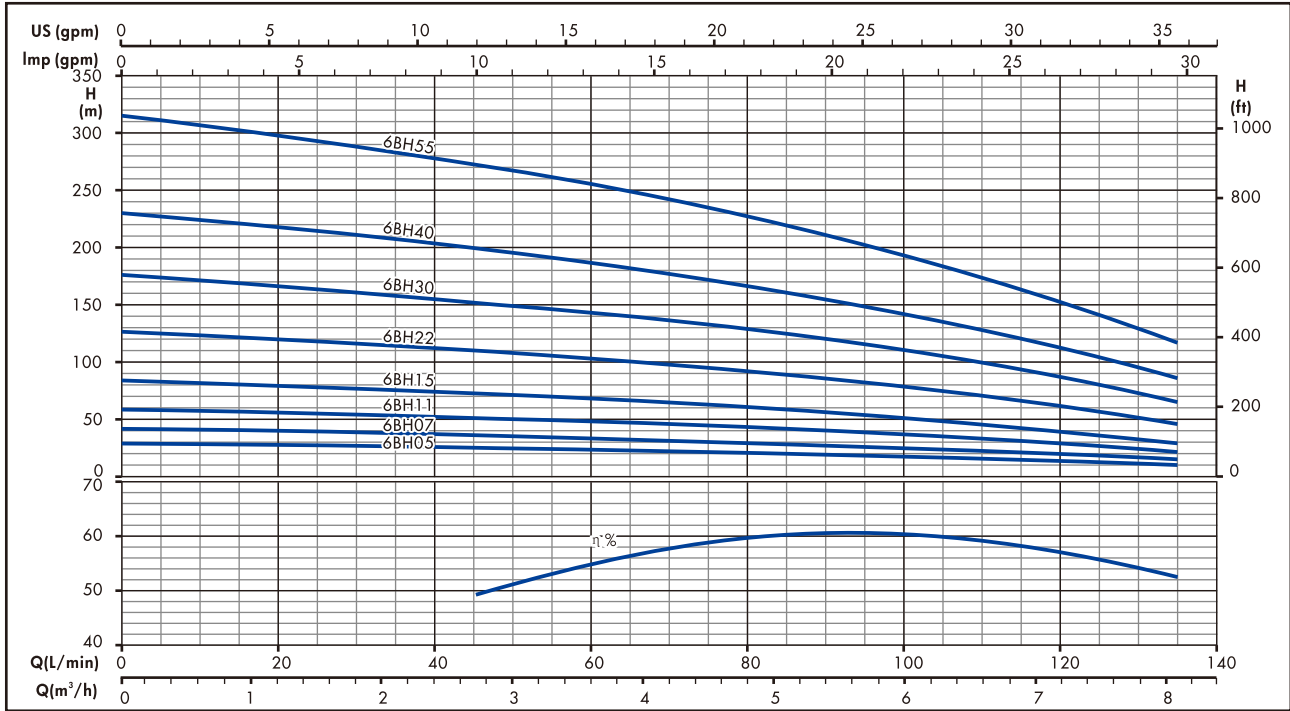
### DIMENSIONS AND WEIGHTS AT 50 Hz

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



## 6BH SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

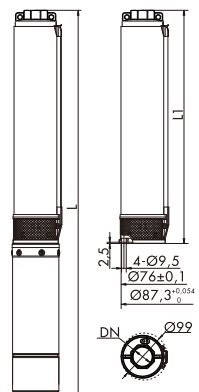


### OPERATING CHARACTERISTICS AT 50 Hz

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

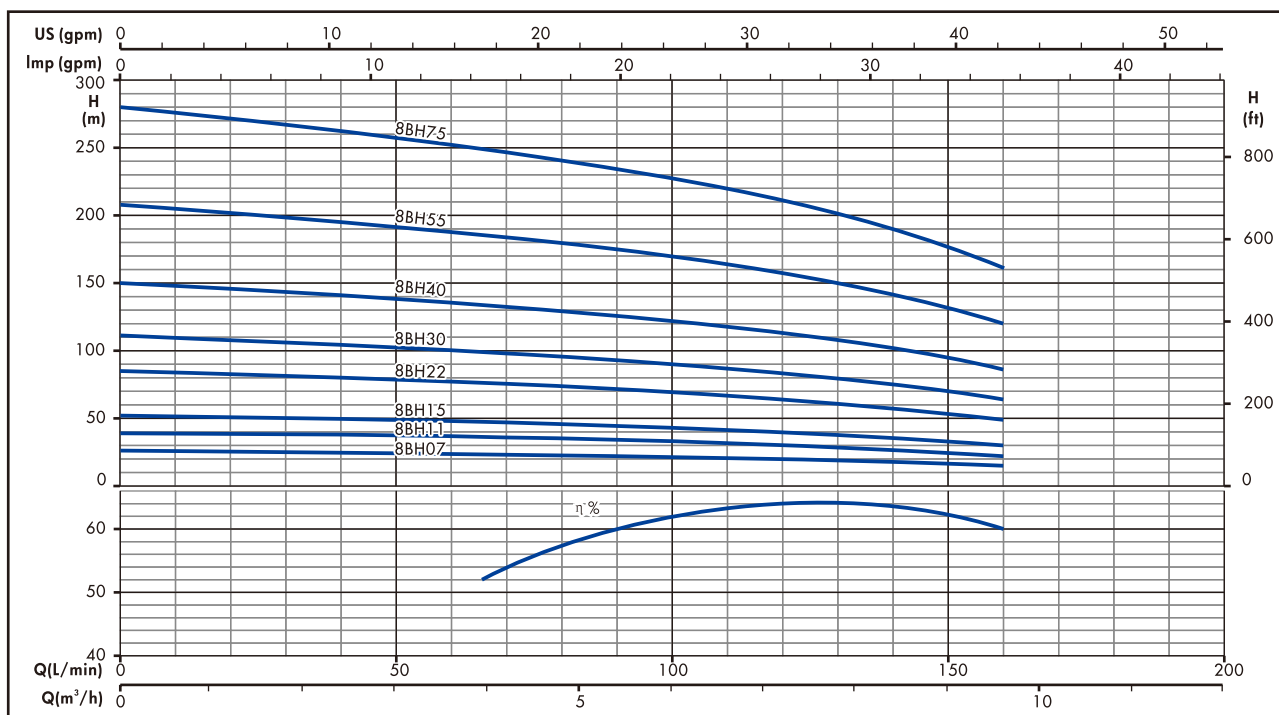
### DIMENSIONS AND WEIGHTS AT 50 Hz

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

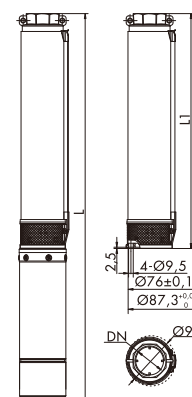


### OPERATING CHARACTERISTICS AT 50 Hz

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

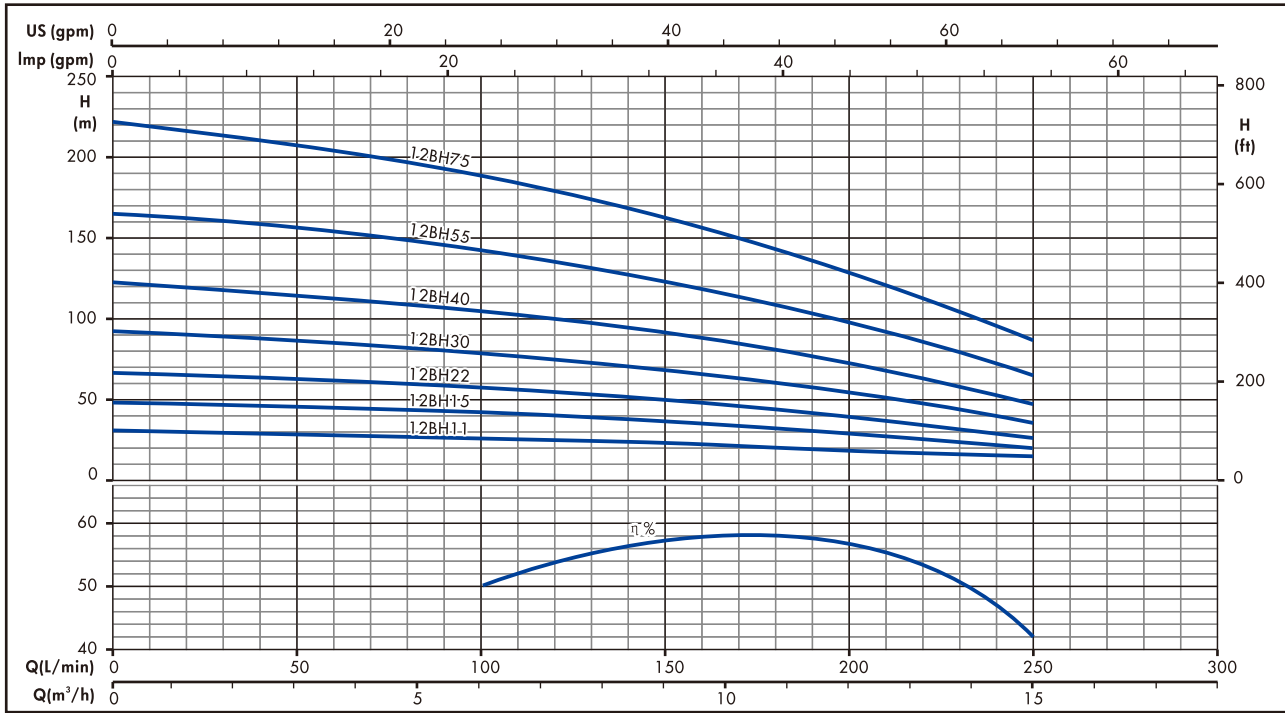
### DIMENSIONS AND WEIGHTS AT 50 Hz

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



## 12BH SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

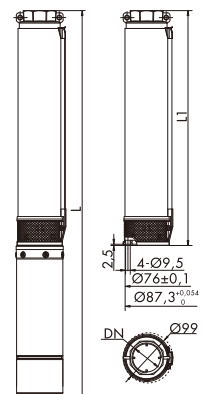


### OPERATING CHARACTERISTICS AT 50 Hz

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

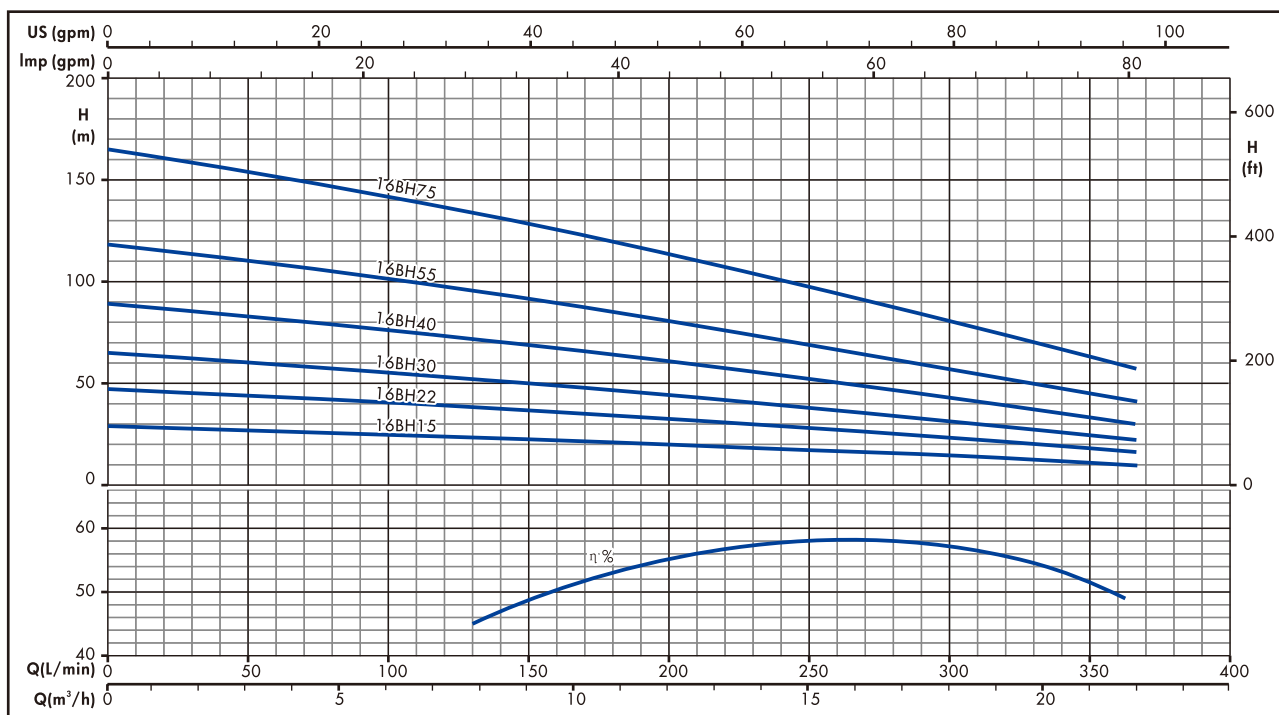
### DIMENSIONS AND WEIGHTS AT 50 Hz

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

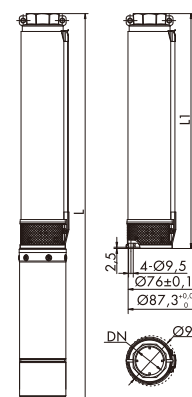


### OPERATING CHARACTERISTICS AT 50 Hz

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
				<b>H=TOTAL HEAD METERS COLUMN OF WATER</b>						
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





**NEW JET S.R.L. UNIPERSONALE**

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