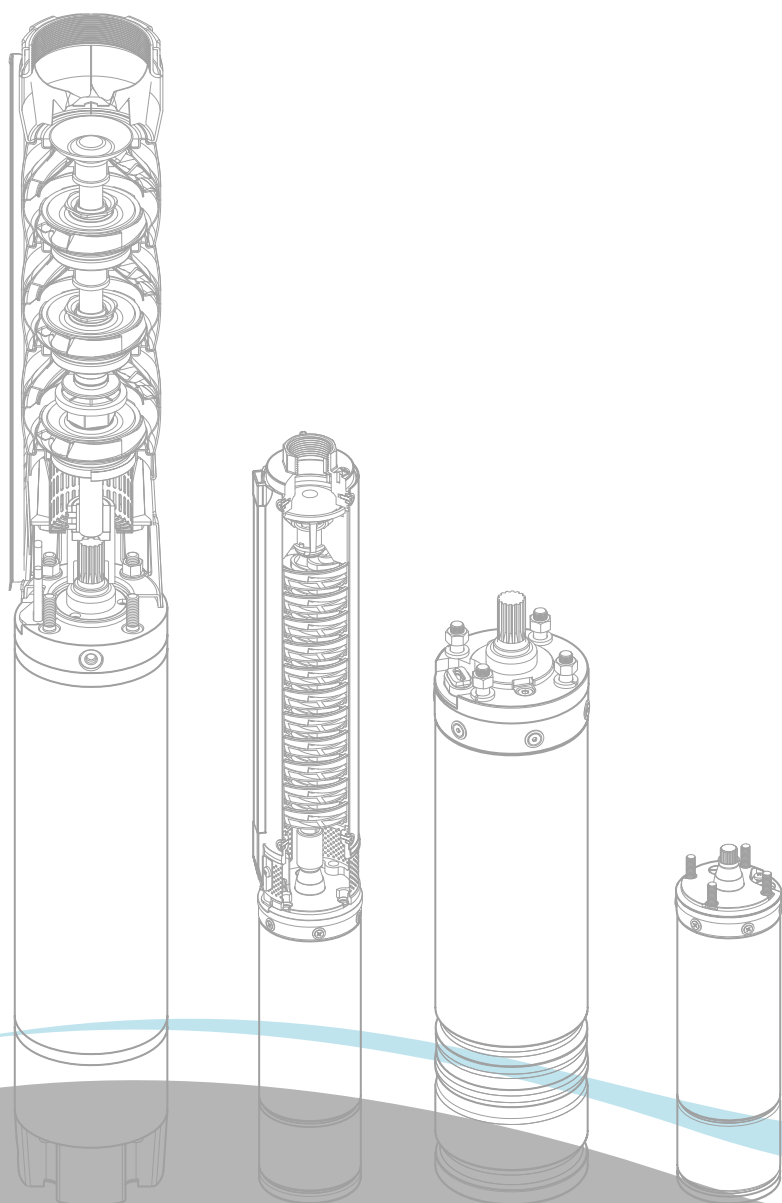


# Elettropompe Sommerse

*Submersed Electropump*

## Technical Catalogue

Catalogo Tecnico(50Hz)



**IRCEM**  
WATER PUMPS



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## 3OS SERIES 3" 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

- 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.
- 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:  $220\text{ V} \pm 10\%$  .

### MODELS

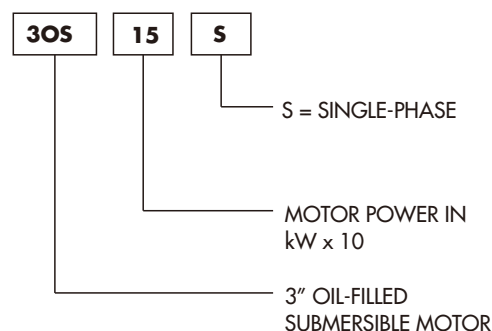
- Single-phase:  
from 0,25 to 1,5 kW, 220 V, 50 Hz.

### OPTIONAL FEATURES

- Different voltage and frequency.
- Different materials.



### IDENTIFICATION CODE



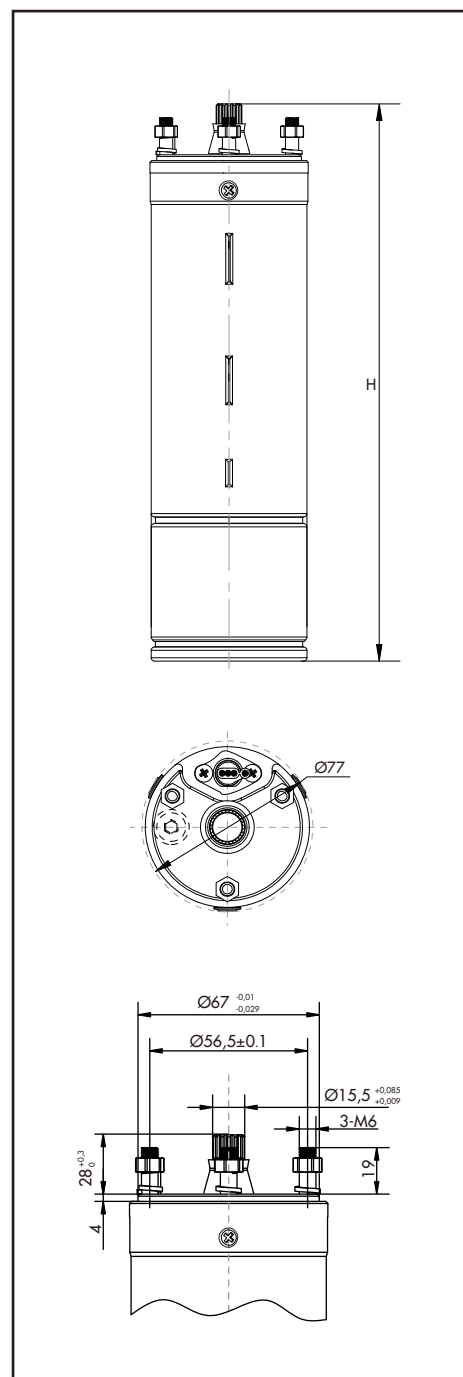
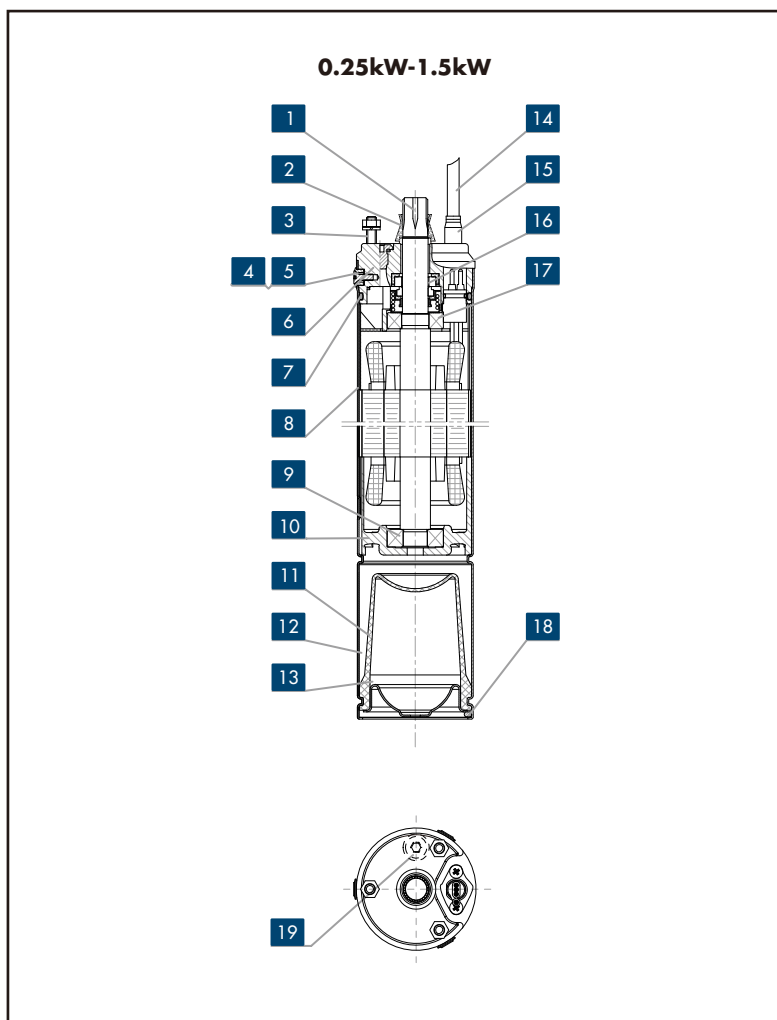
### EXAMPLE OF MOTOR TYPE

3OS15S

3" oil-filled submersible motor, single-phase,  
1,5kW (2,0 Hp).

### 30S SERIES MOTOR CROSS SECTION AND TABLE OF MATERIAL

### DIMENSIONS AND WEIGHTS AT 50 Hz



REF.N.	PART	MATERIAL	STANDARD
1	Shaft extension	Stainless steel	AISI 420
2	Sand protection	NBR	-----
3	Screw	Stainless steel	AISI 304
4	Pin	Stainless steel	AISI 304
5	Screw	Stainless steel	AISI 304
6	Upper support	Cast iron & Stainless steel	ASTM 200A & AISI304
7	O-ring	NBR	-----
8	Motor shell	Stainless steel	AISI 304
9	Ball bearing	-----	-----
10	Lower support	Cast iron	ASTM 200A
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

MOTOR TYPE	POWER		H mm	WEIGHT kg
	kW	Hp		
30S02S	0,25	0,33	374,5	6,5
30S03S	0,37	0,5	404,5	7,3
30S05S	0,55	0,75	439,5	8
30S07S	0,75	1	474,5	9
30S11S	1,1	1,5	559,5	11
30S15S	1,5	2	599,5	12,5

## DL-BM SERIES 3" 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.
- Agricultural irrigation.
- Pressure boosting.
- Industrial application.

### SPECIFICATIONS

- Delivery: up to 4,2 m<sup>3</sup>/h at 2850 rpm.
- Head: up to 140 m at 2850 rpm.
- Maximum pump overall diameter (cable cover included): 80 mm.
- Maximum permissible quantity of sand: 150 g/m<sup>3</sup>.
- Delivery port Rp1" , Rp 1"1/4 .

### MOTOR

- 3OS single-phase version:  
from 0,25 to 1,5 kW, 220 V, 50 Hz.
- Horizontal operation: 3OS up to 1,5 kW.
- Maximum temperature of water in contact with motor: 35°C .

### CONSTRUCTION & CHARACTERISTICS

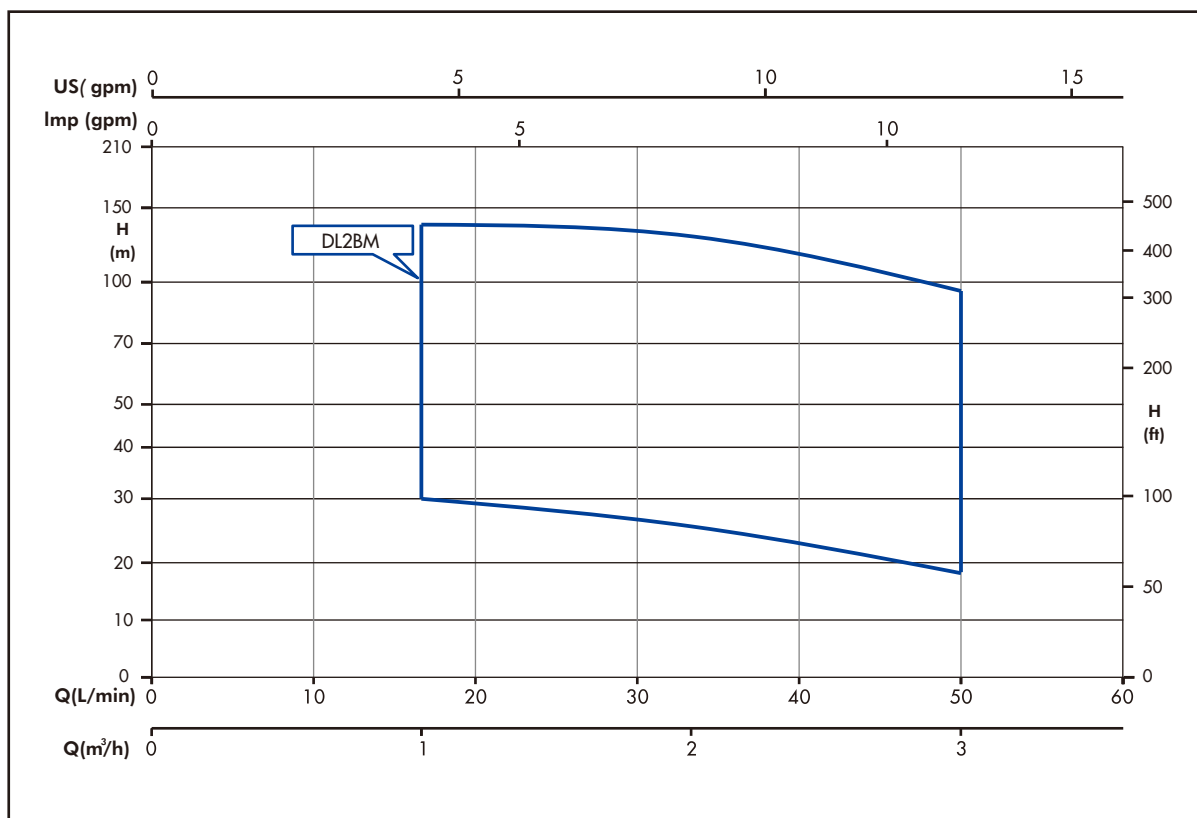
- Cost-effective construction ensures low cost, high efficiency, better performance and reliability.
- Abrasion resistant construction, floating impellers ensure optimum resistance to abrasion.
- The hexagonal pump shaft guarantees an effective impeller driving.
- A non-return valve is fitted at the discharge to prevent back flow of water and alleviate water hammer to the pump, safeguarding impellers and diffusers.
- The DL-BM series pumps can be coupled with the 3OS motors.
- Vertical and horizontal installation .
- Standard and special versions available.

### OPTIONAL FEATURES

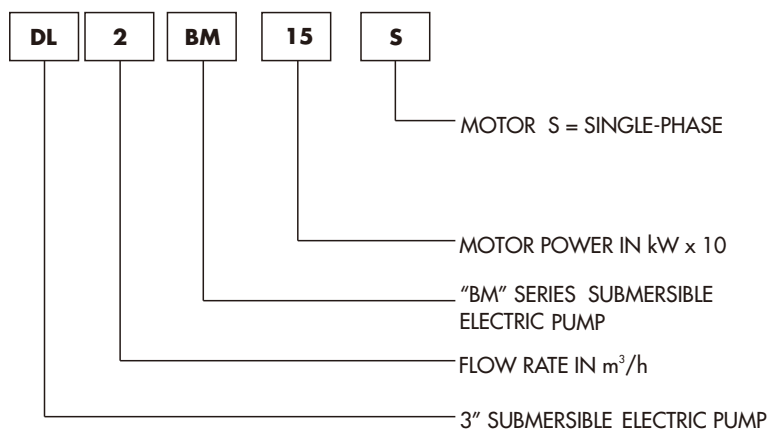
- Different voltage and frequency.
- Different materials.

## DL-BM SERIES

### HYDRAULIC PERFORMANCE RANGE AT 50 Hz



#### IDENTIFICATION CODE



#### EXAMPLE OF PUMP TYPE

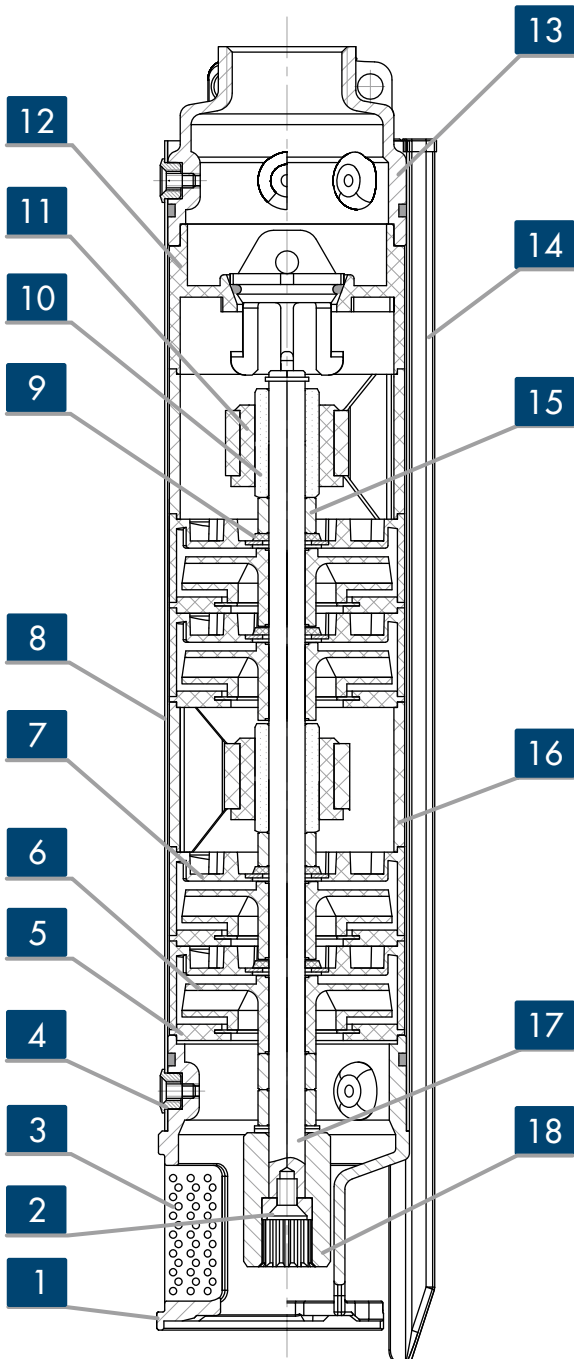
DL2BM15S

DL-BM series 3" submersible electric pump with flow rate of 2 m<sup>3</sup>/h; and single-phase 1,5 kW (2,0 Hp) motor.



## DL-BM SERIES

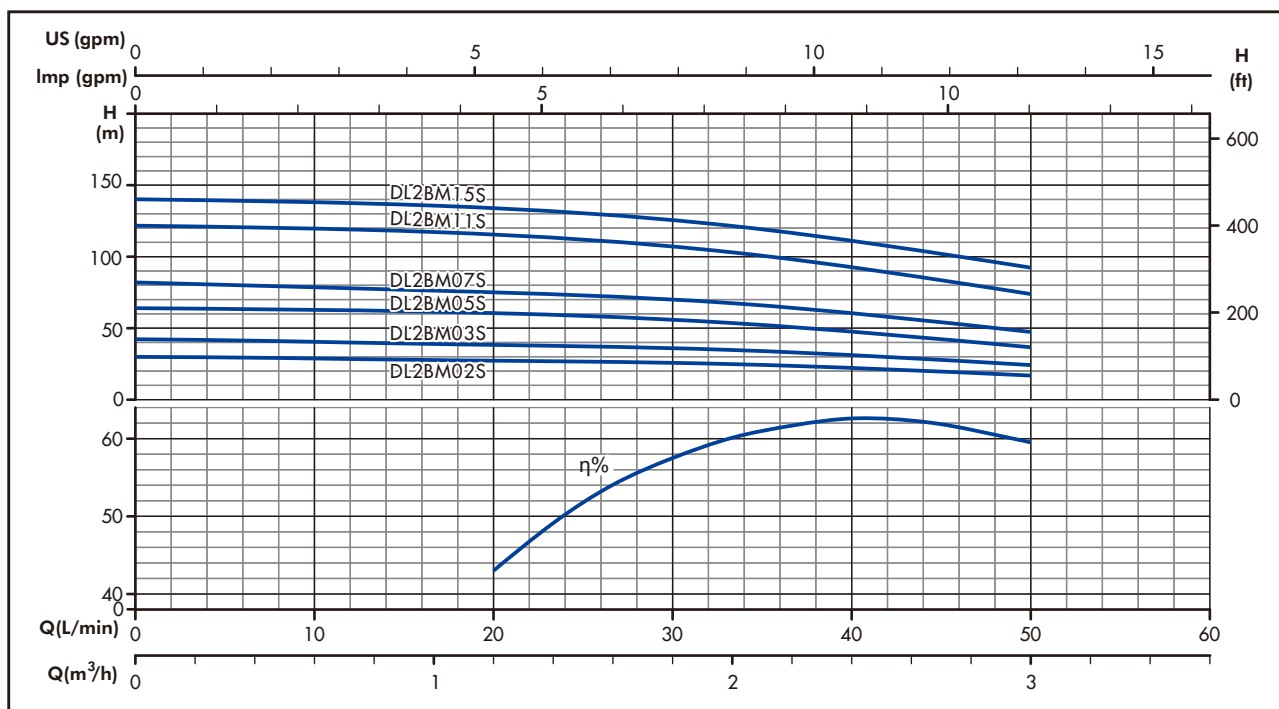
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



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

## DL-BM SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

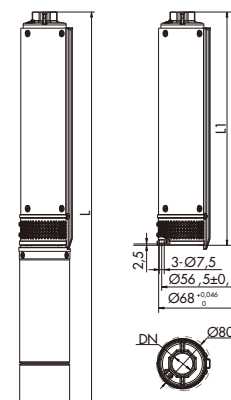


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY			
				l/min 0	17	33	50
				m³/h 0	1	2	3
H=TOTAL HEAD METERS COLUMN OF WATER							
DL2BM02S	8	0,25	0,33	30	28	25	18
DL2BM03S	11	0,37	0,5	42	40	35	25
DL2BM05S	16	0,55	0,75	64	60	53	37
DL2BM07S	21	0,75	1	81	78	68	48
DL2BM11S	31	1,1	1,5	121	116	103	75
DL2BM15S	37	1,5	2	140	138	123	90

### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
DL2BM02S	8	Rp1"1/4	419	791	2,1	8,6
DL2BM03S	11		497	899	2,4	9,7
DL2BM05S	16		626	1063	3	11
DL2BM07S	21		796	1268	3,8	12,8
DL2BM11S	31		1096	1653	5,4	16,4
DL2BM15S	37		1251	1848	6,5	19,0



## 35OS SERIES 3,5" 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

- 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 4000 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:  $220\text{ V} \pm 10\%$  .

### MODELS

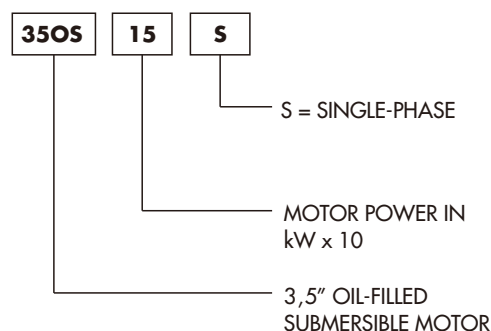
- Single-phase:  
from 0,25 to 1,5 kW, 220 V, 50 Hz.

### OPTIONAL FEATURES

- Different voltage and frequency.
- Different materials.



### IDENTIFICATION CODE



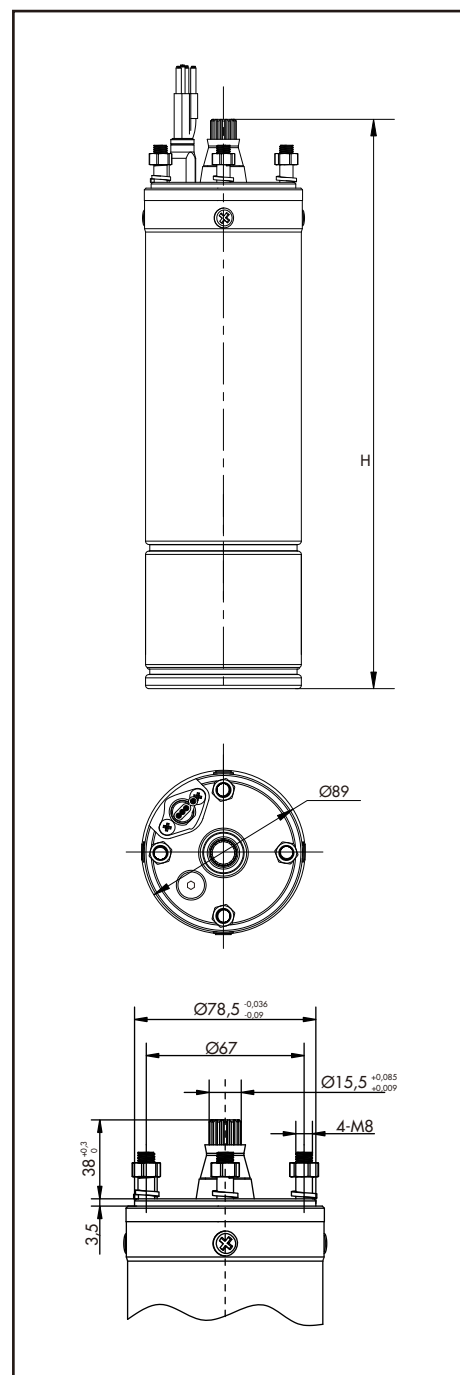
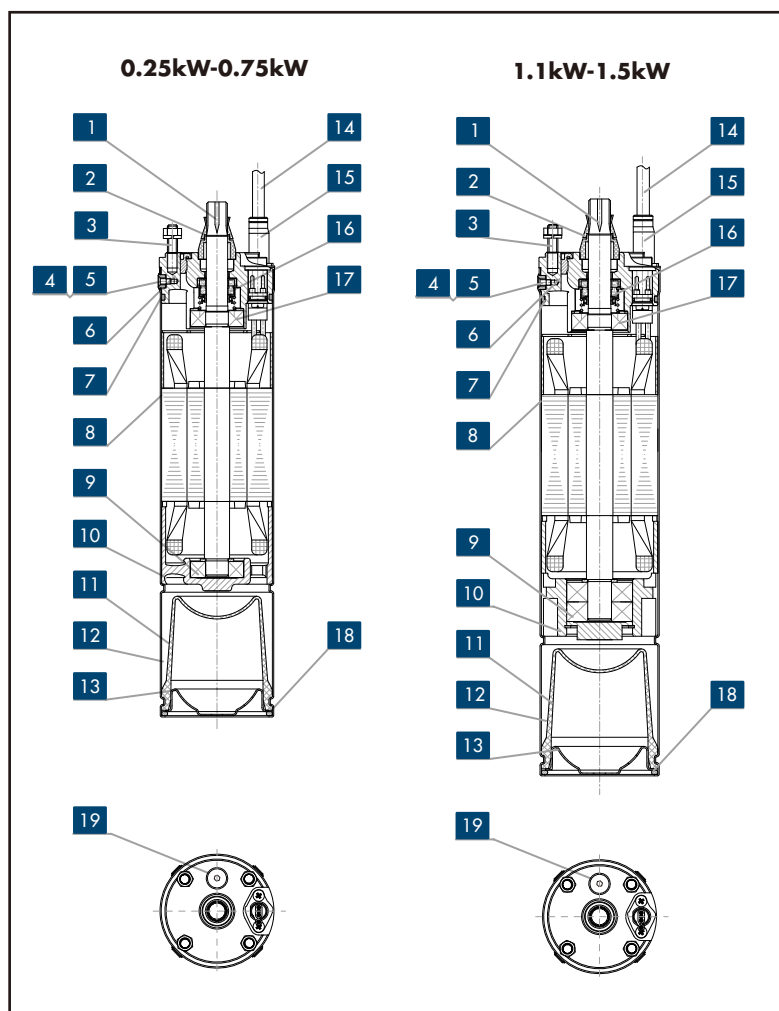
### EXAMPLE OF MOTOR TYPE

35OS15S

3,5" oil-filled submersible motor, single-phase,  
1,5kW (2 Hp).

### 350S SERIES MOTOR CROSS SECTION AND TABLE OF MATERIAL

### DIMENSIONS AND WEIGHTS AT 50 Hz



REF.N.	PART	MATERIAL	STANDARD
1	Shaft extension	Stainless steel	AISI 420
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	Cast iron & Stainless steel	ASTM 200A & AISI304
7	O-ring	NBR	-----
8	Motor shell	Stainless steel	AISI 304
9	Angular bearing	-----	-----
10	Lower support	Cast iron	ASTM 200A
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

MOTOR TYPE	POWER		H mm	WEIGHT kg
	kW	Hp		
350S02S	0,25	0,33	386	6,5
350S03S	0,37	0,5	401	7,3
350S05S	0,55	0,75	421	8
350S07S	0,75	1	446	9
350S11S	1,1	1,5	505	11
350S15S	1,5	2	560	13

## BG SERIES 3,5" 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.
- Agricultural irrigation.
- Pressure boosting.
- Industrial application.

### SPECIFICATIONS

- Delivery: up to 5 m<sup>3</sup>/h at 2850 rpm.
- Head: up to 131 m at 2850 rpm.
- Maximum pump overall diameter (cable cover included): 95 mm.
- Maximum permissible quantity of sand: 150 g/m<sup>3</sup>.
- Delivery port Rp 1"1/2.

### MOTOR

- 35OS single-phase version:  
from 0,25 to 1,5 kW, 220 V, 50 Hz.
- Horizontal operation: 35OS up to 1,5 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, safeguarding impellers and diffusers.
- The BG series pumps can be coupled with the 35OS motors.
- Vertical and horizontal installation .
- Standard and special versions available.

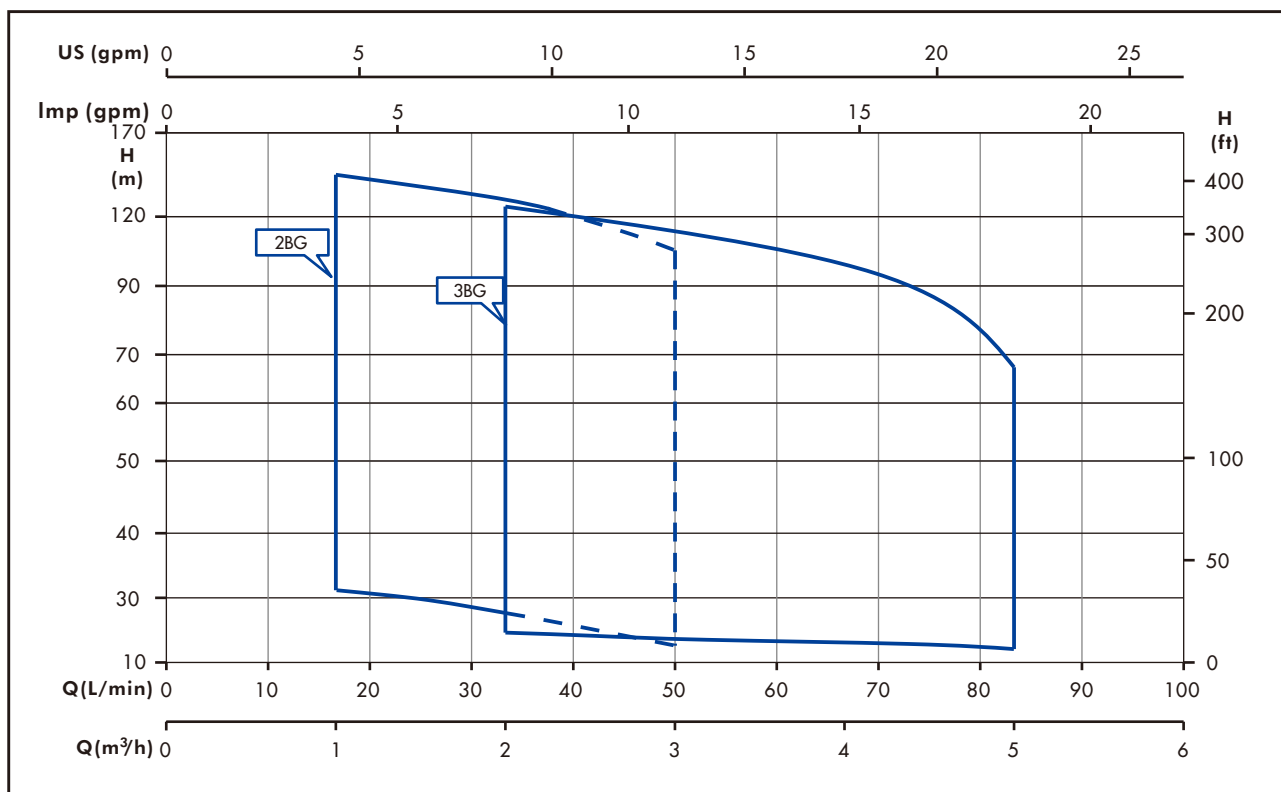
### OPTIONAL FEATURES

- Different voltage and frequency.
- Different materials.

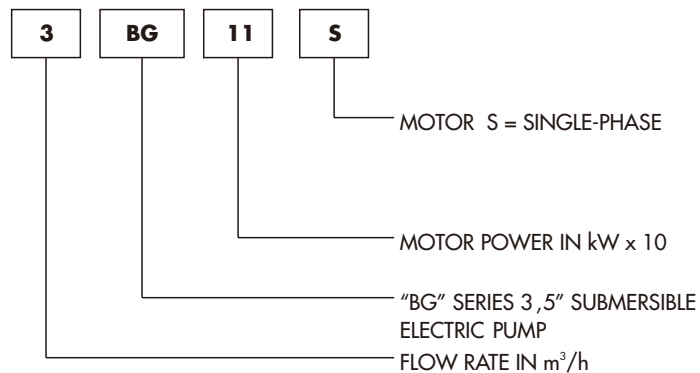


## BG SERIES

### HYDRAULIC PERFORMANCE RANGE AT 50 Hz



#### IDENTIFICATION CODE



#### EXAMPLE OF PUMP TYPE

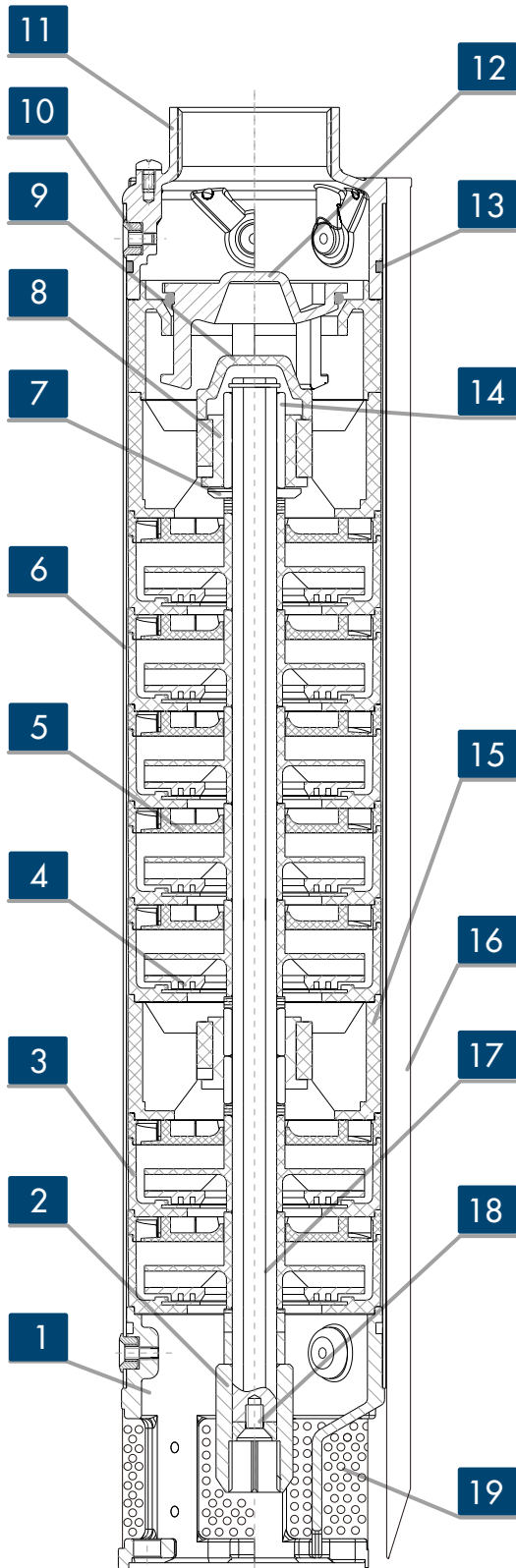
3BG11S

BG series 3,5" submersible electric pump with flow rate of 3 m³/h and single-phase 1,1 kW (1,5 Hp) motor.



## 2BG SERIES

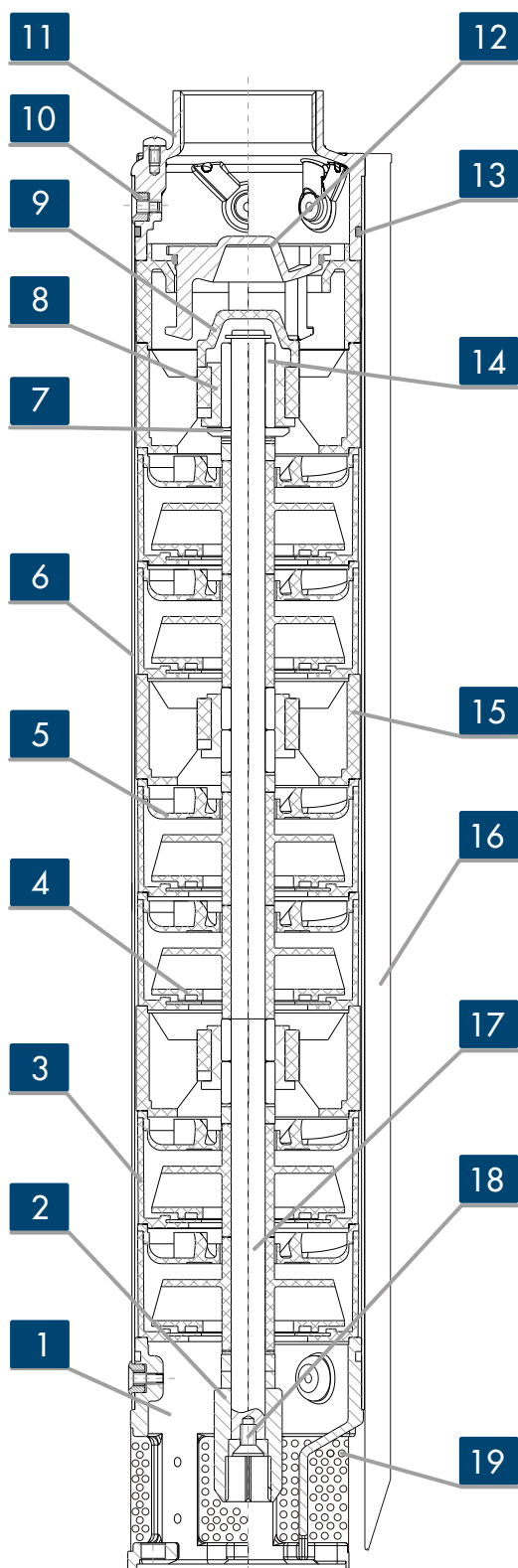
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



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

### 3BG SERIES

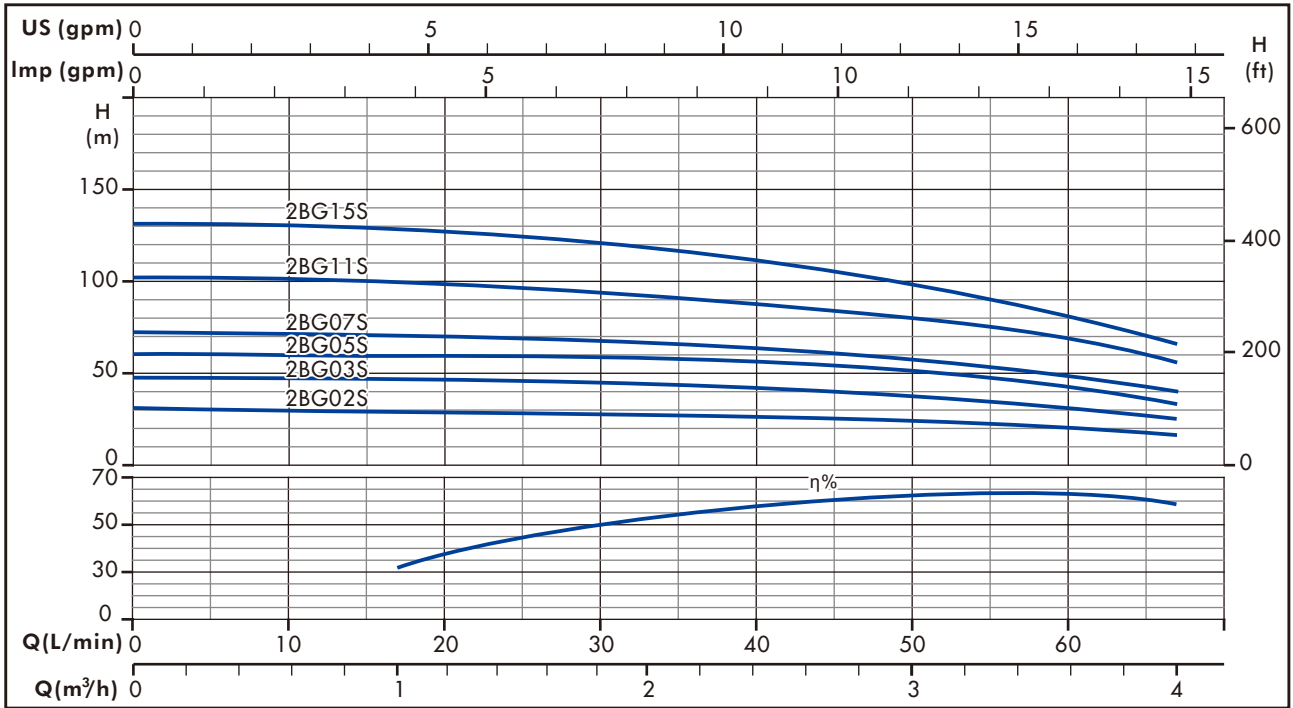
#### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



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

## 2BG SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

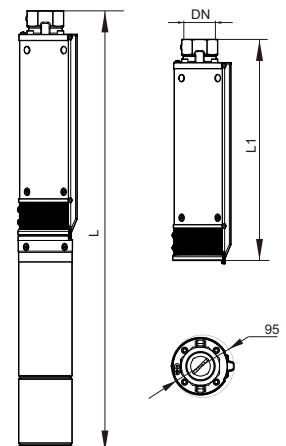


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY				
				l/min 0	17	33	50	67
				m³/h 0	1	2	3	4
H=TOTAL HEAD METERS COLUMN OF WATER								
2BG02S	5	0,25	0,33	31	29	27	24	17
2BG03S	8	0,37	0,5	48	47	42	39	26
2BG05S	10	0,55	0,75	60	59	55	49	33
2BG07S	12	0,75	1	72	71	66	57	40
2BG11S	17	1,1	1,5	102	100	93	80	56
2BG15S	22	1,5	2	131	127	120	99	67

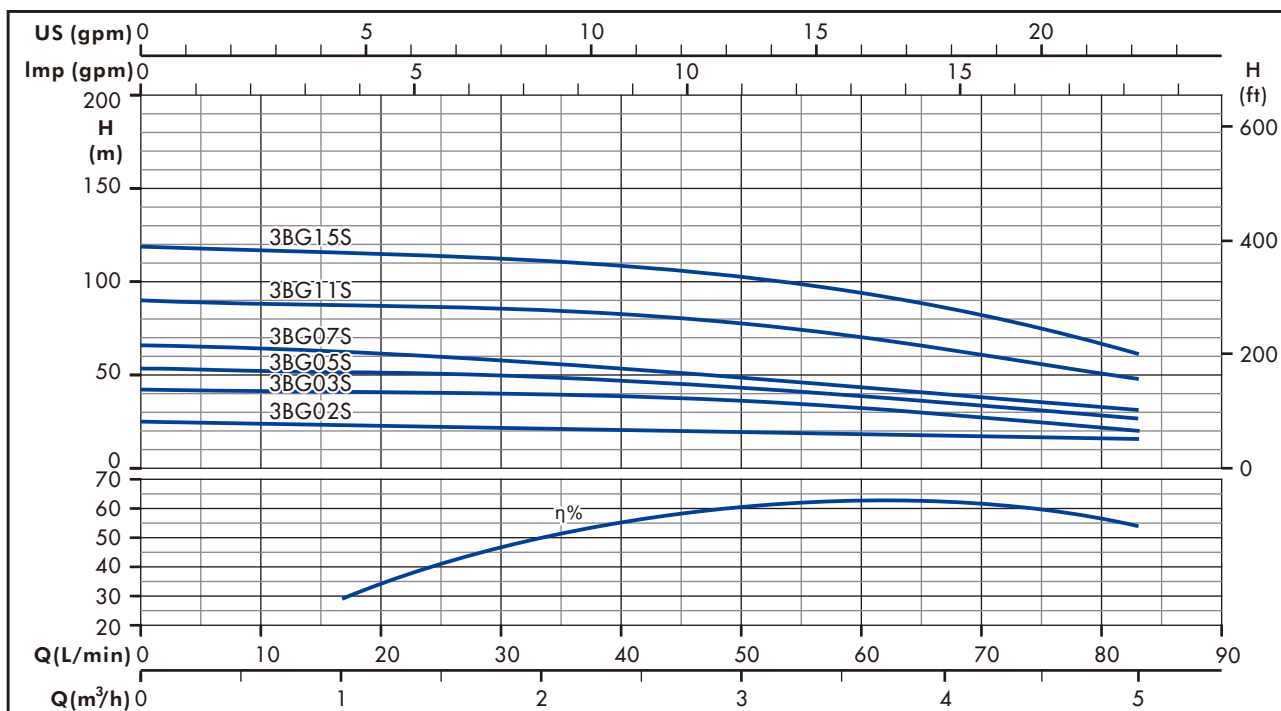
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
2BG02S	5	Rp 1"1/2	321	667	2,8	9,3
2BG03S	8		404	764	3,5	10,8
2BG05S	10		459	839	4	12
2BG07S	12		514	919	4,5	13,5
2BG11S	17		689	1153	5,6	16,5
2BG15S	22		851	1371	6,9	19,9



### 3BG SERIES

#### OPERATING CHARACTERISTICS AT 50 Hz

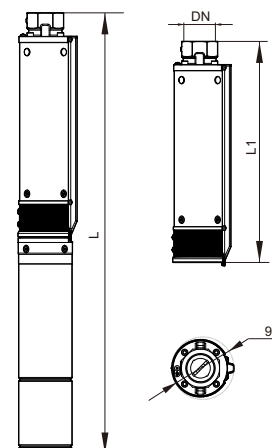


#### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY				
				l/min 0	17	50	67	83
				m3/h 0	1	3	4	5
H=TOTAL HEAD METERS COLUMN OF WATER								
3BG02S	4	0,25	0,33	25	24	21	19	16
3BG03S	7	0,37	0,5	42	41	36	29	20
3BG05S	9	0,55	0,75	53	52	46	38	26
3BG07S	11	0,75	1	65	63	56	45	31
3BG11S	15	1,1	1,5	90	87	78	66	48
3BG15S	20	1,5	2	119	116	105	83	61

#### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
3BG02S	4	Rp 1"1/2	294	639	2,7	9,2
3BG03S	7		376	737	3,1	10,4
3BG05S	9		431	679	3,7	11,7
3BG07S	11		486	892	4,1	13,1
3BG11S	15		634	1098	5,1	16,1
3BG15S	20		809	1274	6,3	19,3



## 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  $\pm$  10 %
  - 380 V  $\pm$  10 %

### MODELS

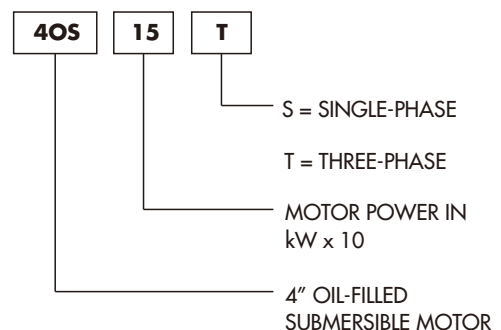
- Single-phase:  
from 0,25 to 2,2 kW, 220 V, 50 Hz.
- Three-phase:  
from 0,37 to 2,2 kW, 220 V, 50 Hz.  
from 0,37 to 7,5 kW, 380 V, 50 Hz.

### OPTIONAL FEATURES

- Different voltage and frequency.
- Different materials.



### IDENTIFICATION CODE

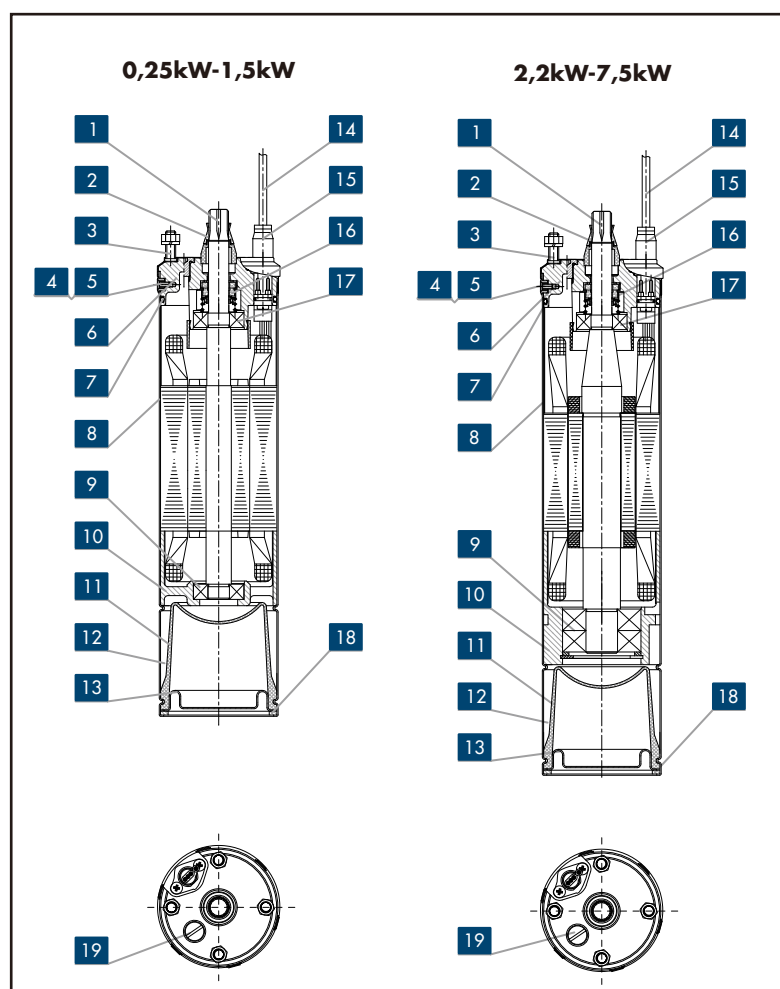


### EXAMPLE OF MOTOR TYPE

4OS15T

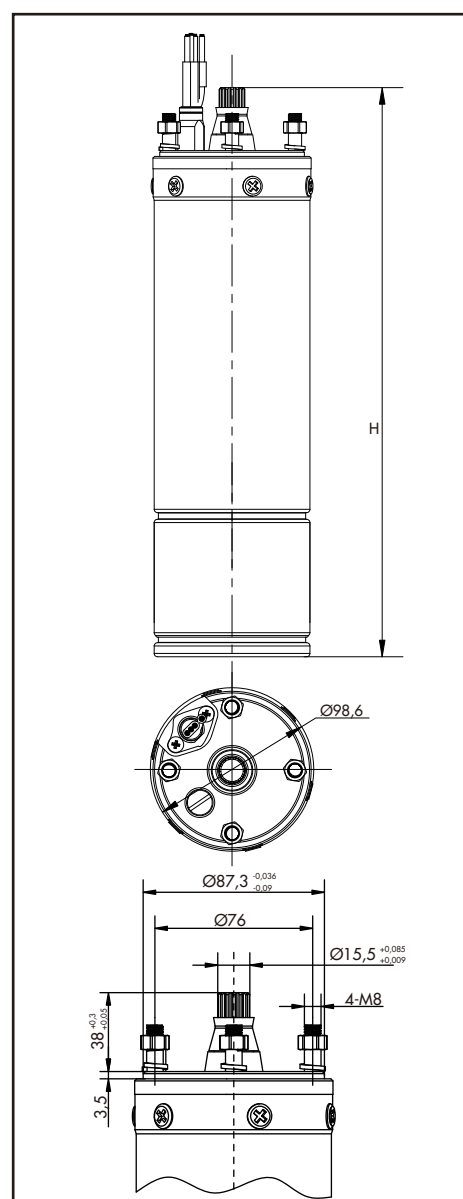
4" oil-filled submersible motor, three-phase  
1,5kW (2 Hp).

## 4OS SERIES MOTOR CROSS SECTION AND TABLE OF MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Shaft extension	Stainless steel	AISI 420(P ≤ 1,5 kW) AISI 630(2,2 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	Cast iron & Stainless steel/Brass	ASTM 200A & AISI304/ASTM 37700
7	O-ring	NBR	-----
8	Motor shell	Stainless steel	AISI 304
9	Angular bearing	-----	-----
10	Lower support	Cast iron	ASTM 200A
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		H mm	WEIGHT kg
	kW	Hp		
4OS02S	0,25	0,33	356,5	7,4
4OS03S	0,37	0,5	366,5	7,8
4OS03T			366,5	7,4
4OS05S	0,55	0,75	381,5	8,5
4OS05T			376,5	7,6
4OS07S	0,75	1	401,5	9,4
4OS07T			396,5	8,5
4OS11S	1,1	1,5	432,5	10,7
4OS11T			432,5	10
4OS15S	1,5	2	472,5	12,6
4OS15T			457,5	11,1
4OS22S	2,2	3	585	17,3
4OS22T			510	13,7
4OS30T	3	4	560	16
4OS40T	4	5,5	634	20,9
4OS55T	5,5	7,5	744	27,2
4OS75T	7,5	10	829	32,1

## BH SERIES 4" SUBMERSIBLE ELECTRIC PUMPS



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

### APPLICATIONS

- Water supply from deep well.
- Agricultural 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>.
- 1BH , 2BH , 3BH, 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

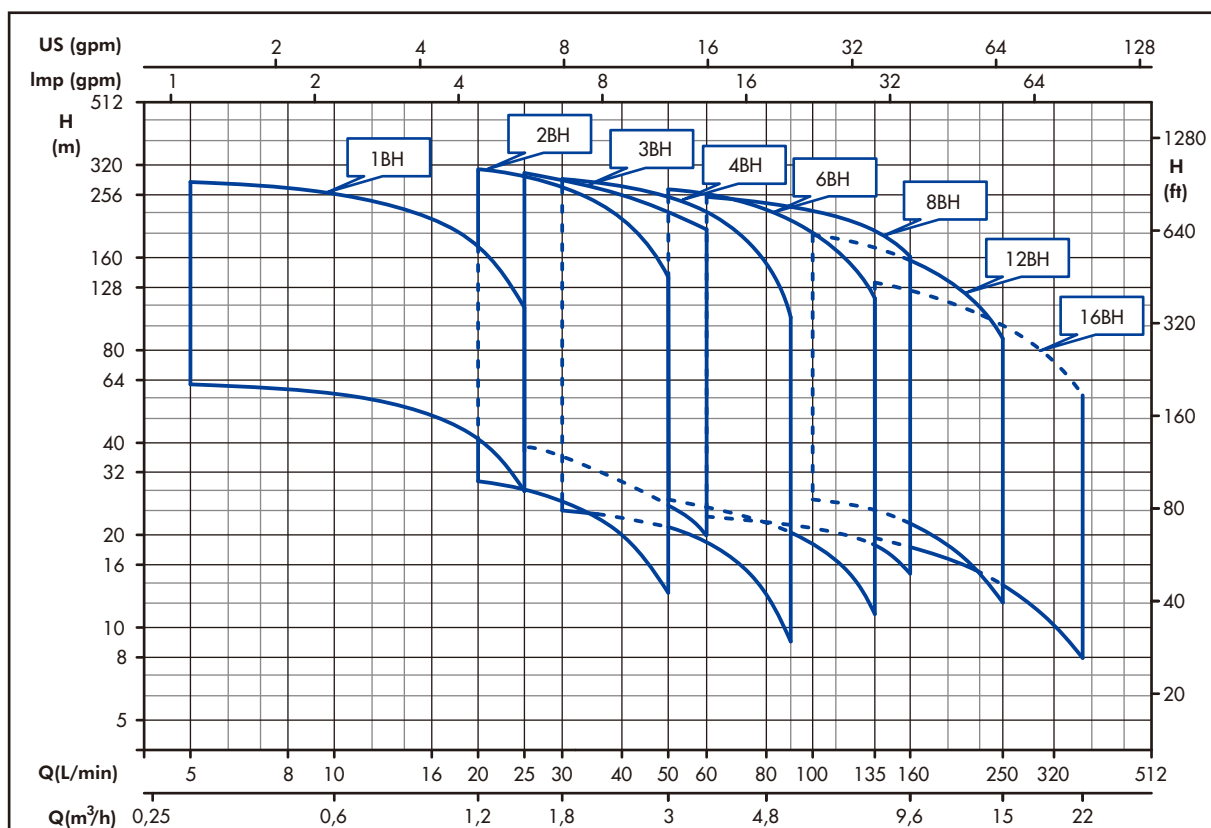
- Easy to maintain and rapid to install.
- Abrasion resistant construction, floating impellers ensure optimum resistance to abrasion.
- The delivery port and suction support are made of precision-cast stainless steel, guarantee resistance to corrosion, durability and a sturdy coupling to the motor.
-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

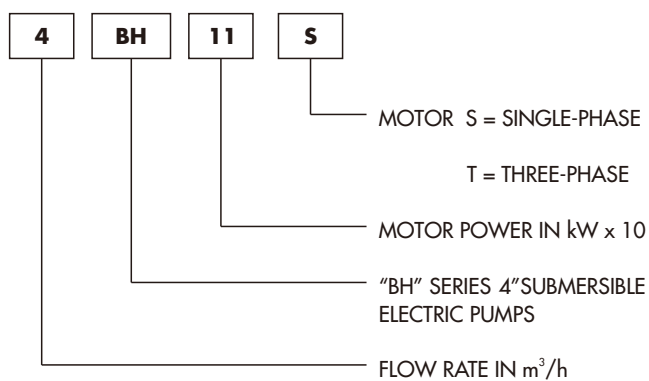
- Different voltage and frequency.
- Different materials.

## BH SERIES

### HYDRAULIC PERFORMANCE RANGE AT 50 Hz



#### IDENTIFICATION CODE



#### EXAMPLE OF PUMP TYPE

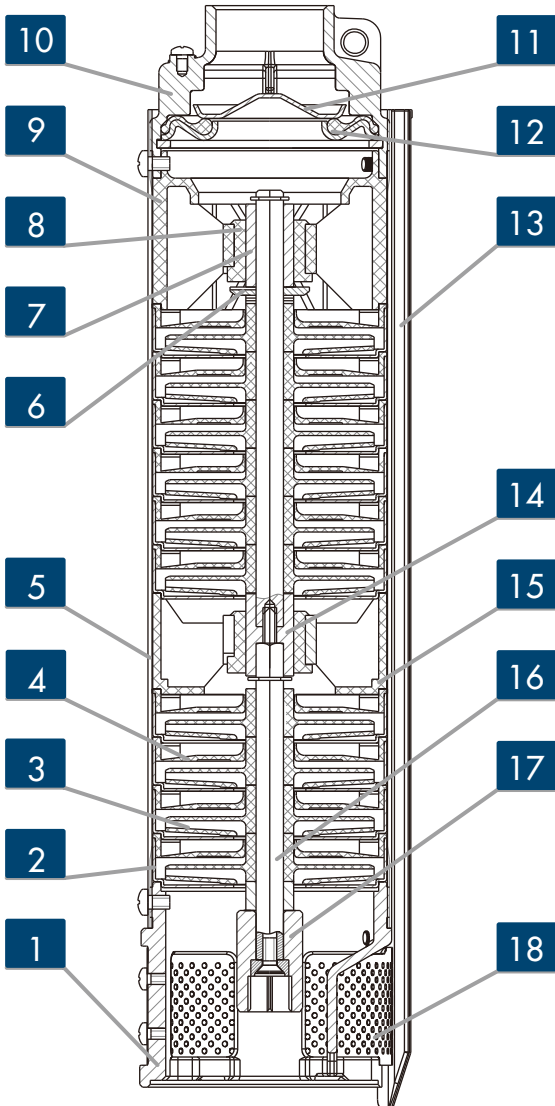
4BH11S

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



## 1BH-4BH SERIES

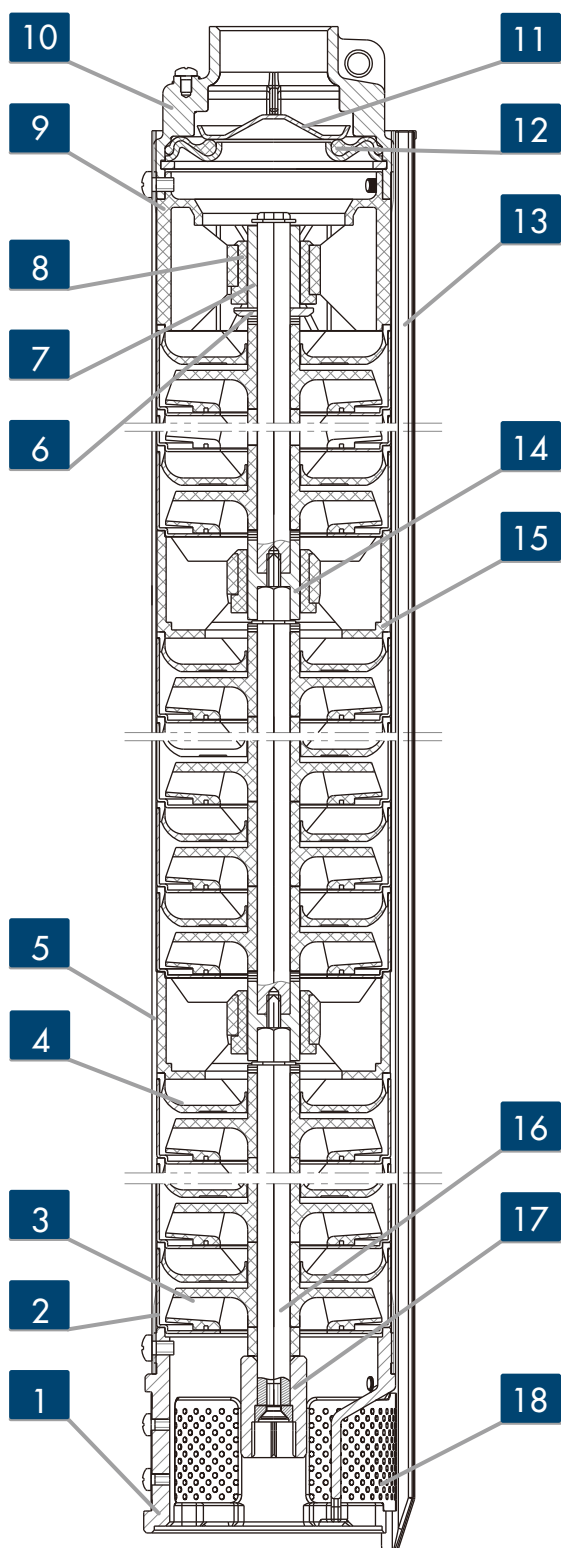
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel	AISI 304
2	Stage housing	Stainless steel	AISI 304
3	Impeller	Noryl® PPO	-----
4	Diffuser	Noryl® PPO	-----
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	Noryl® PPO	-----
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	Intermediate support	Noryl® PPO	-----
16	Shaft	Stainless steel	AISI 420
17	Coupling	Stainless steel	AISI 304
18	Filter	Stainless steel	AISI 304

## 6BH-8BH SERIES

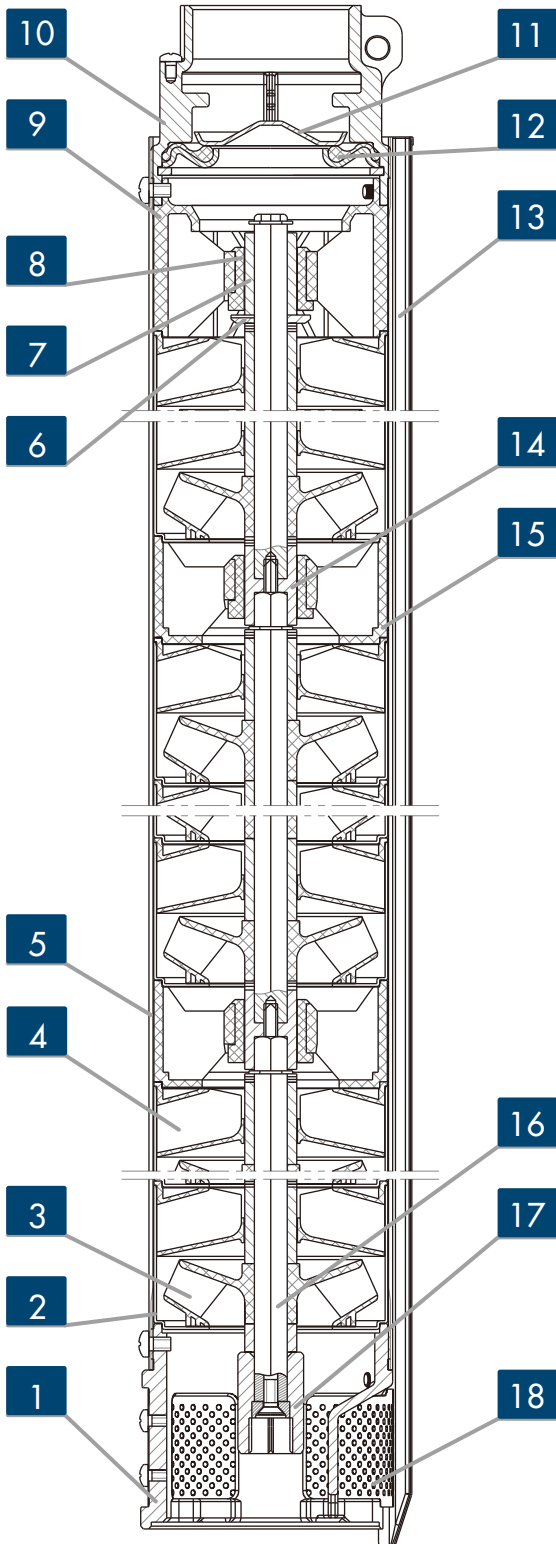
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel	AISI 304
2	Stage housing	Stainless steel	AISI 304
3	Impeller	Noryl® PPO	-----
4	Diffuser	Noryl® PPO	-----
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	Noryl® PPO	-----
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	Intermediate support	Noryl® PPO	-----
16	Shaft	Stainless steel	AISI 420
17	Coupling	Stainless steel	AISI 304
18	Filter	Stainless steel	AISI 304

## 12BH SERIES

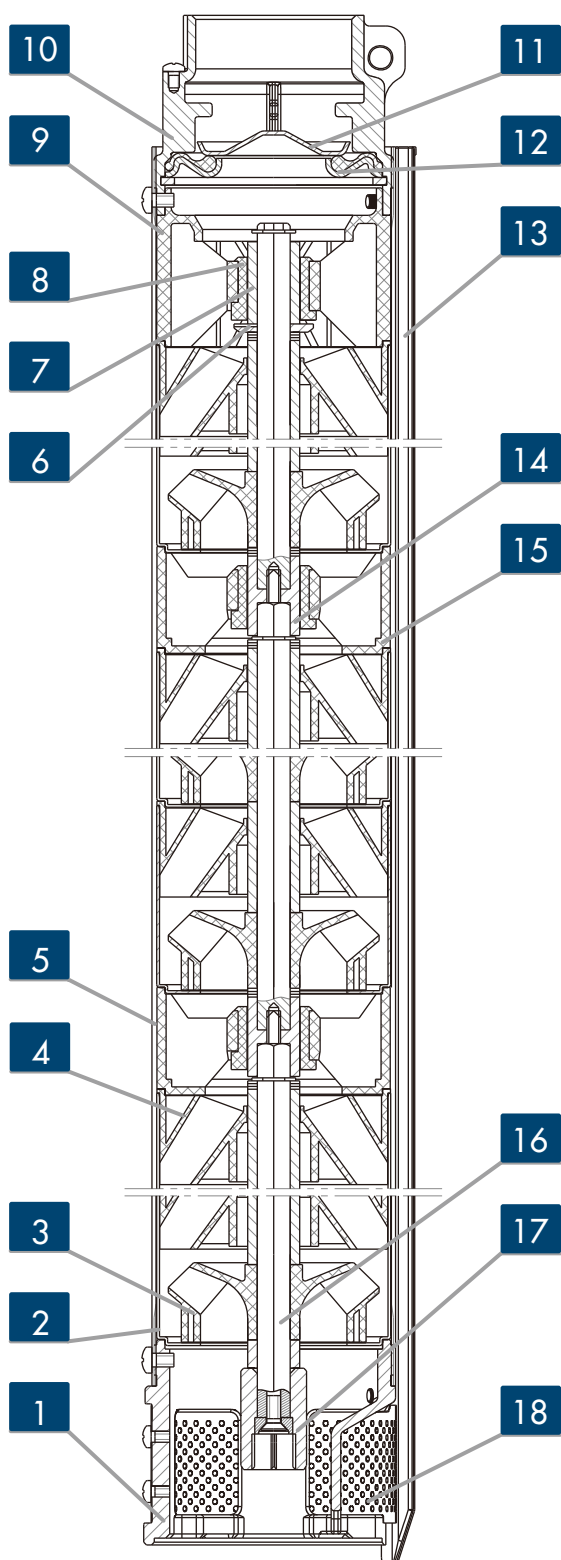
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel	AISI 304
2	Stage housing	Stainless steel	AISI 304
3	Impeller	Noryl® PPO	-----
4	Diffuser	Noryl® PPO	-----
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	Noryl® PPO	-----
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	Intermediate support	Noryl® PPO	-----
16	Shaft	Stainless steel	AISI 420
17	Coupling	Stainless steel	AISI 304
18	Filter	Stainless steel	AISI 304

## 16BH SERIES

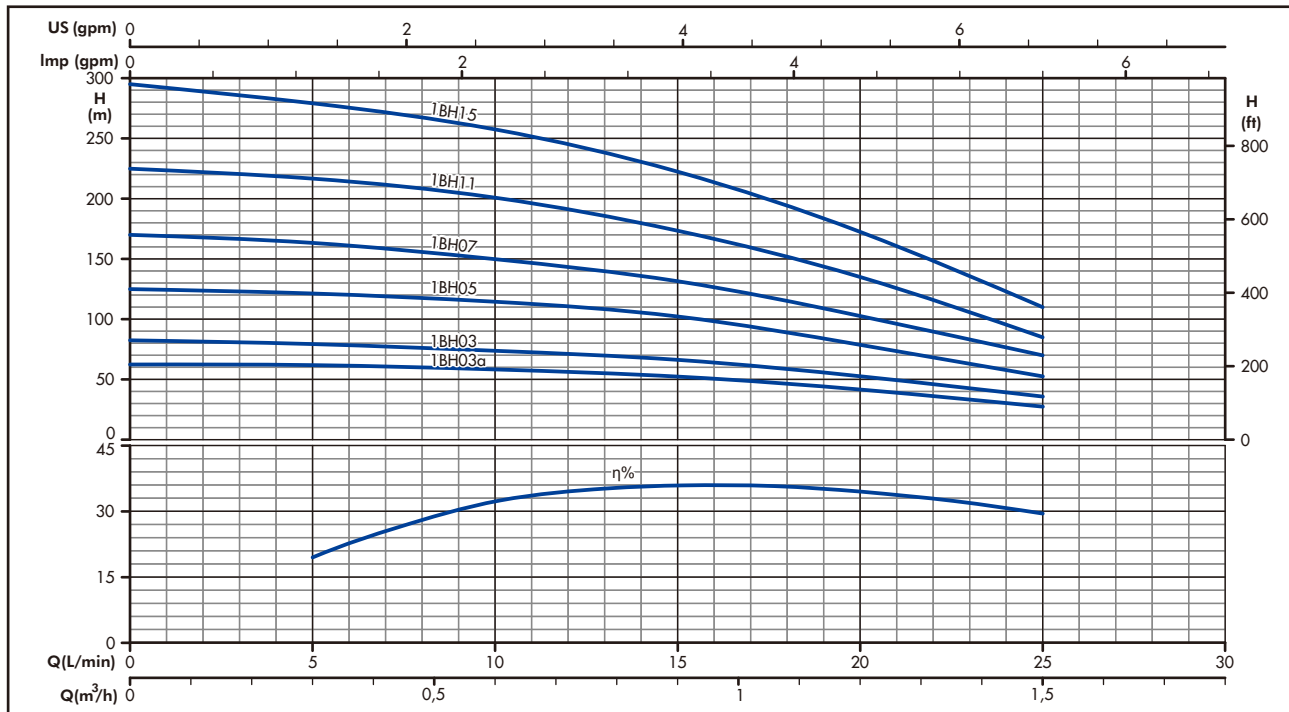
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel	AISI 304
2	Stage housing	Stainless steel	AISI 304
3	Impeller	Noryl® PPO	-----
4	Diffuser	Noryl® PPO	-----
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	Noryl® PPO	-----
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	Intermediate support	Noryl® PPO	-----
16	Shaft	Stainless steel	AISI 420
17	Coupling	Stainless steel	AISI 304
18	Filter	Stainless steel	AISI 304

## 1BH SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

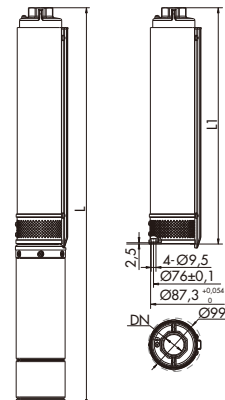


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY					
				l/min 0	5	10	15	20	25
				m³/h 0 0,3 0,6 0,9 1,2 1,5					
				H=TOTAL HEAD METERS COLUMN OF WATER					
1BH03Sa	10	0,37	0,5	64	62	57	52	40	28
1BH03S	13	0,37	0,5	82	80	73	68	52	36
1BH03T									
1BH05S	19	0,55	0,75	125	120	110	102	76	54
1BH05T									
1BH07S	26	0,75	1	169	163	149	131	100	70
1BH07T									
1BH11S	37	1,1	1,5	225	218	200	172	135	85
1BH11T									
1BH15S	48	1,5	2	291	282	259	223	175	110
1BH15T									

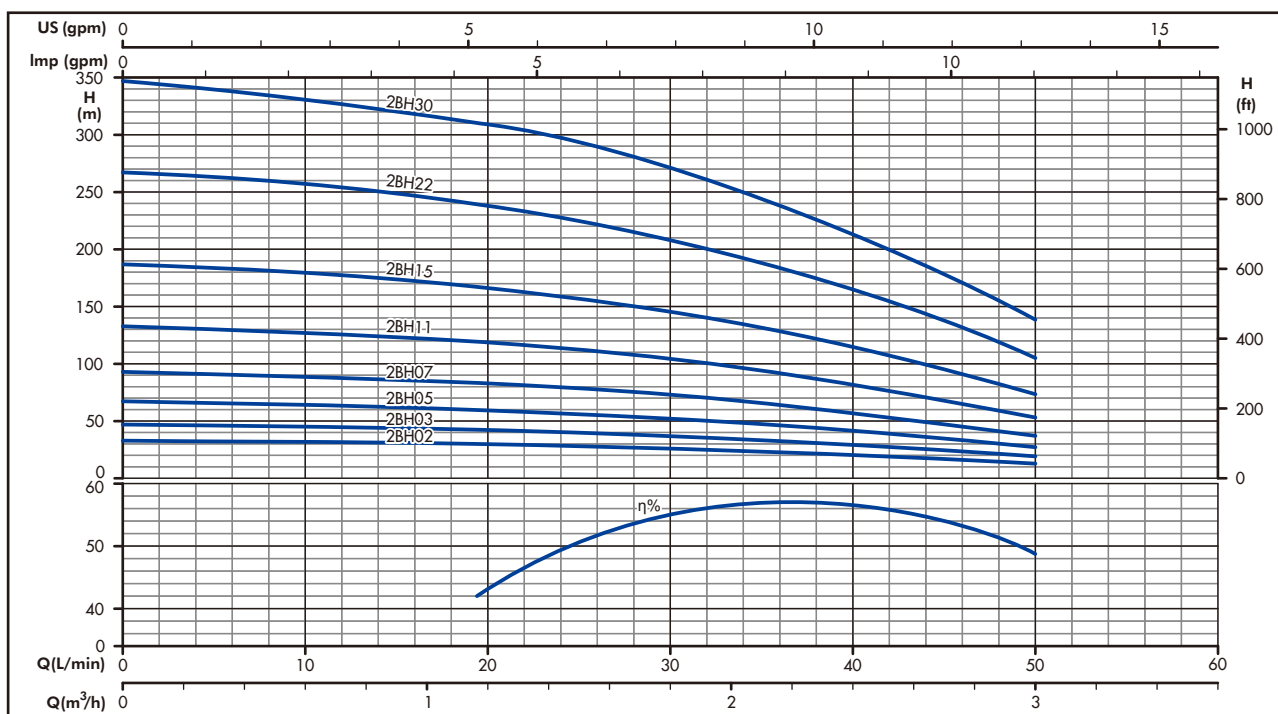
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
1BH03Sa	10	Rp1"1/4	321	647	3,5	11,7
1BH03S	13		367	693	4	12,2
1BH03T						
1BH05S	19		460	801	5,1	14
1BH05T						
1BH07S	26		567	928	6,4	16,2
1BH07T						
1BH11S	37		774	1166	8,6	19,7
1BH11T						
1BH15S	48		943	1375	10,6	23,6
1BH15T						



## 2BH SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

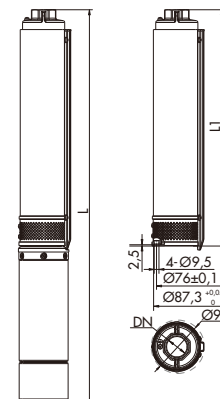


### OPERATING CHARACTERISTICS AT 50 Hz

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	0,75	67	60	56	52	41	27
2BH05T									
2BH07S	14	0,75	1	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	187	167	158	146	115	74
2BH15T									
2BH22S	40	2,2	3	267	238	226	208	164	106
2BH22T									
2BH30T	52	3	4	347	309	294	271	213	138

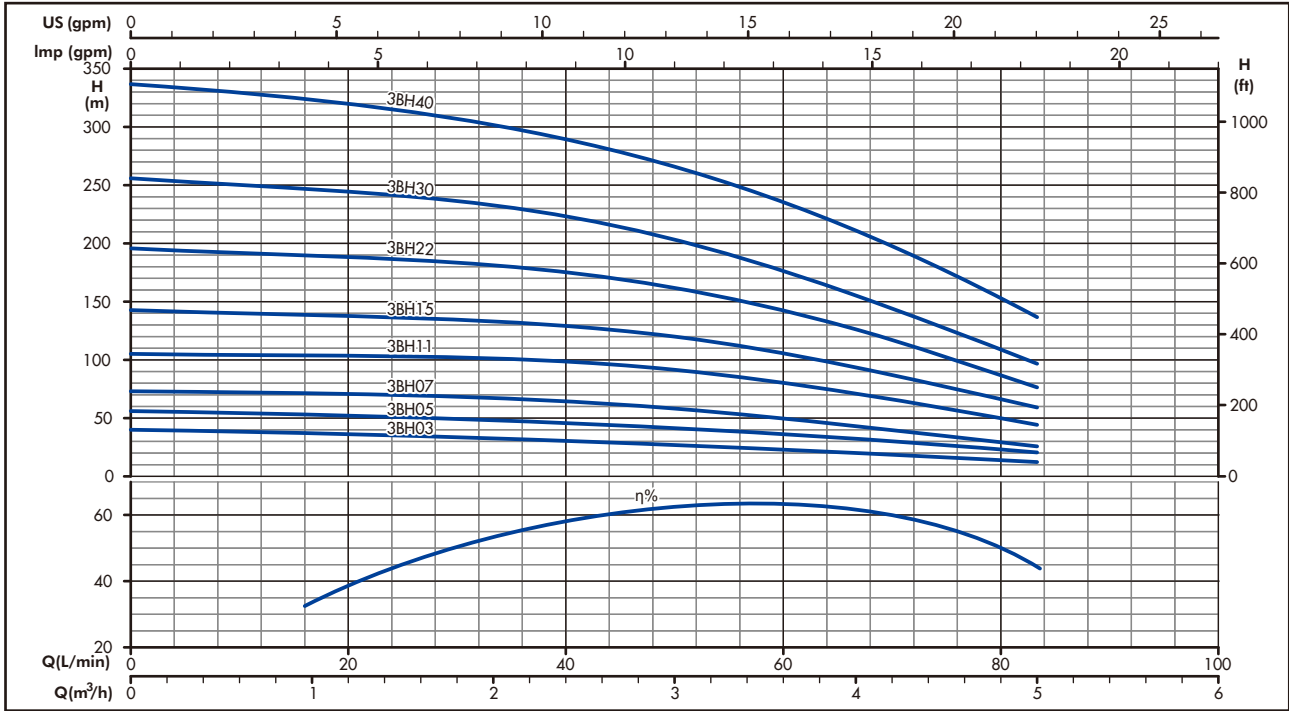
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
2BH02S	5	Rp1"1/4	258	574	2,3	10,1
2BH03S	7		294	620	2,7	10,9
2BH03T				620	10,5	
2BH05S	10		348	689	3,2	12,1
2BH05T				684	11,2	
2BH07S	14		421	782	3,9	13,7
2BH07T				777	12,8	
2BH11S	20		529	921	5	16,1
2BH11T				921	15,4	
2BH15S	28		673	1105	6,4	19,4
2BH15T				1090	17,9	
2BH22S	40		927	1472	9,1	26,8
2BH22T				1397	23,2	
2BH30T	52		1143	1663	11,2	27,7



### 3BH SERIES

#### OPERATING CHARACTERISTICS AT 50 Hz

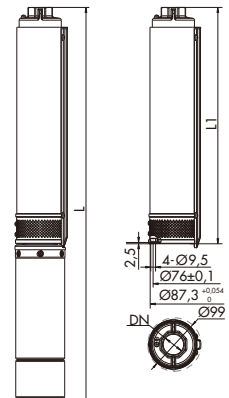


#### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY					
				l/min 0	17	33	50	67	84
				m³/h 0	1	2	3	4	5
				<b>H=TOTAL HEAD METERS COLUMN OF WATER</b>					
3BH03S	6	0,37	0,5	40	39	37	33	25	15
3BH03T									
3BH05S	8	0,55	0,75	53	52	50	43	33	19
3BH05T									
3BH07S	11	0,75	1	72	71	67	59	44	24
3BH07T									
3BH11S	16	1,1	1,5	108	107	103	90	69	43
3BH11T									
3BH15S	21	1,5	2	142	141	136	121	96	63
3BH15T									
3BH22S	30	2,2	3	196	195	185	164	126	78
3BH22T									
3BH30T	40	3	4	253	251	237	208	155	87
3BH40T	53	4	5,5	337	335	317	278	212	126

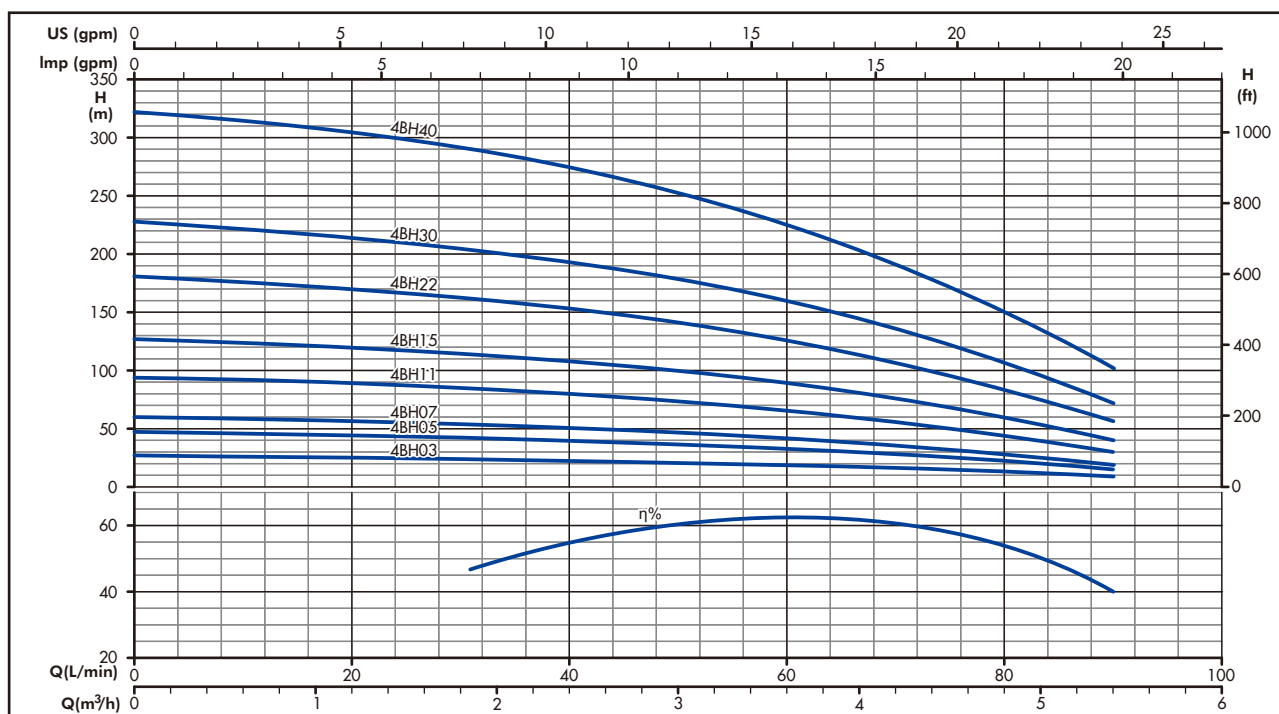
#### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
3BH03S	6	Rp1"1/4	298	624	2,7	10,9
3BH03T				624		10,5
3BH05S	8		341	682	3,2	12,1
3BH05T				677		11,2
3BH07S	11		406	767	4	13,8
3BH07T				762		12,9
3BH11S	16		515	907	4,9	16
3BH11T				907		15,3
3BH15S	21		623	1055	5,9	18,9
3BH15T				1040		17,4
3BH22S	30	855	1400	8,1	25,8	
3BH22T			1325		22,2	
3BH30T	40	1072	1592	10,3	26,8	
3BH40T	53	1355	1949	12,9	33,3	



## 4BH SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

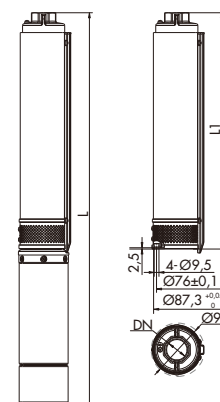


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY						
				l/min 0	30	40	50	60	80	90
				m <sup>3</sup> /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	0,75	47	42	40	37	33	22	15
4BH05T										
4BH07S	9	0,75	1	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	127	114	108	100	89	60	40
4BH15T										
4BH22S	27	2,2	3	181	162	154	142	127	85	57
4BH22T										
4BH30T	35	3	4	228	204	194	179	160	107	72
4BH40T	48	4	5,5	322	288	274	252	226	151	102

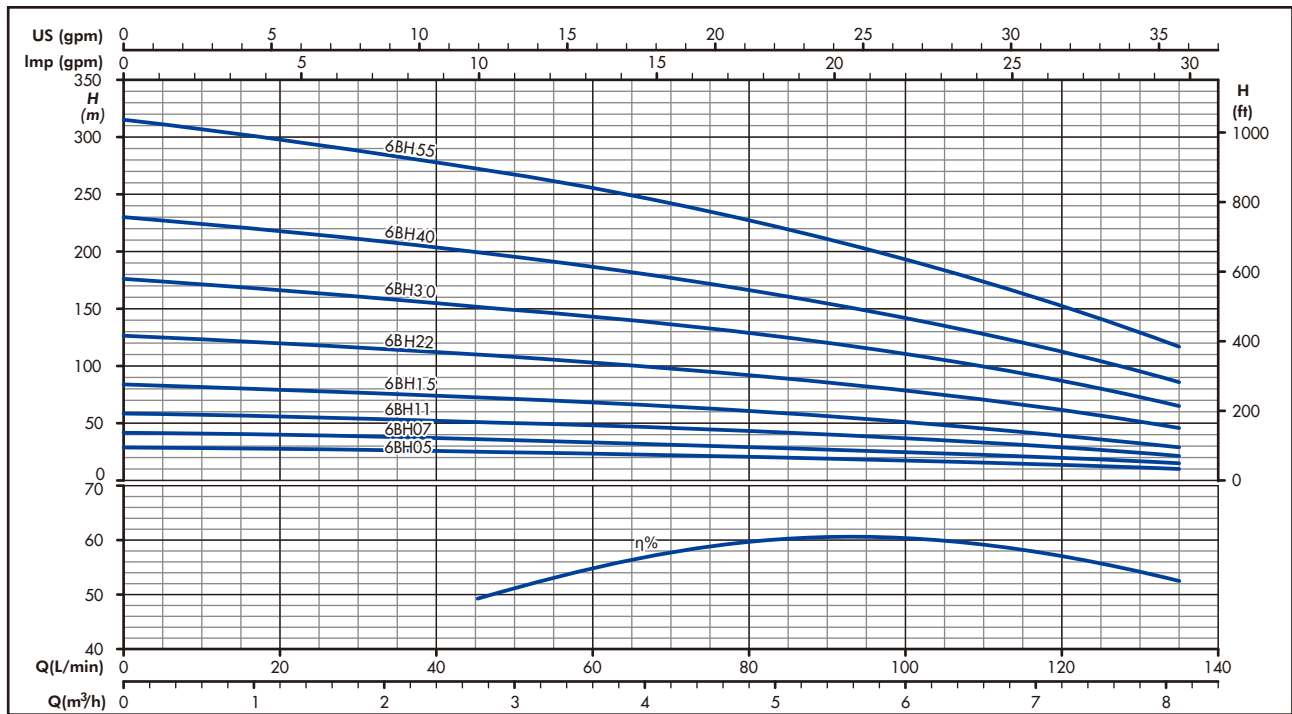
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
4BH03S	4	Rp1"1/4	254	580	2,2	10,4
4BH03T				580		10
4BH05S	7		319	660	2,8	11,7
4BH05T				655		10,8
4BH07S	9		362	723	3,2	13
4BH07T				718		12,1
4BH11S	14		471	863	4,2	15,3
4BH11T				863		14,6
4BH15S	19		579	1011	5,2	18,2
4BH15T				996		16,7
4BH22S	27		790	1335	7,4	25,1
4BH22T				1260		21,5
4BH30T	35		964	1484	9	25,5
4BH40T	48		1246	1840	11,6	33



## 6BH SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

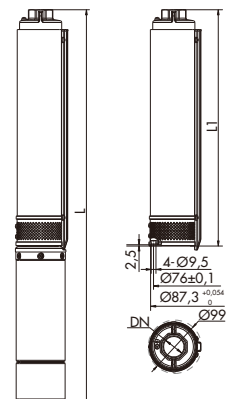


### OPERATING CHARACTERISTICS AT 50 Hz

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	0,75	30	25	23	20	18	15	11
6BH05T										
6BH07S	7	0,75	1	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	85	69	64	57	50	41	31
6BH15T										
6BH22S	21	2,2	3	128	104	97	87	76	61	47
6BH22T										
6BH30T	29	3	4	177	143	132	119	105	85	66
6BH40T	38	4	5	232	188	172	156	136	112	86
6BH55T	52	5,5	7,5	317	257	235	213	185	152	118

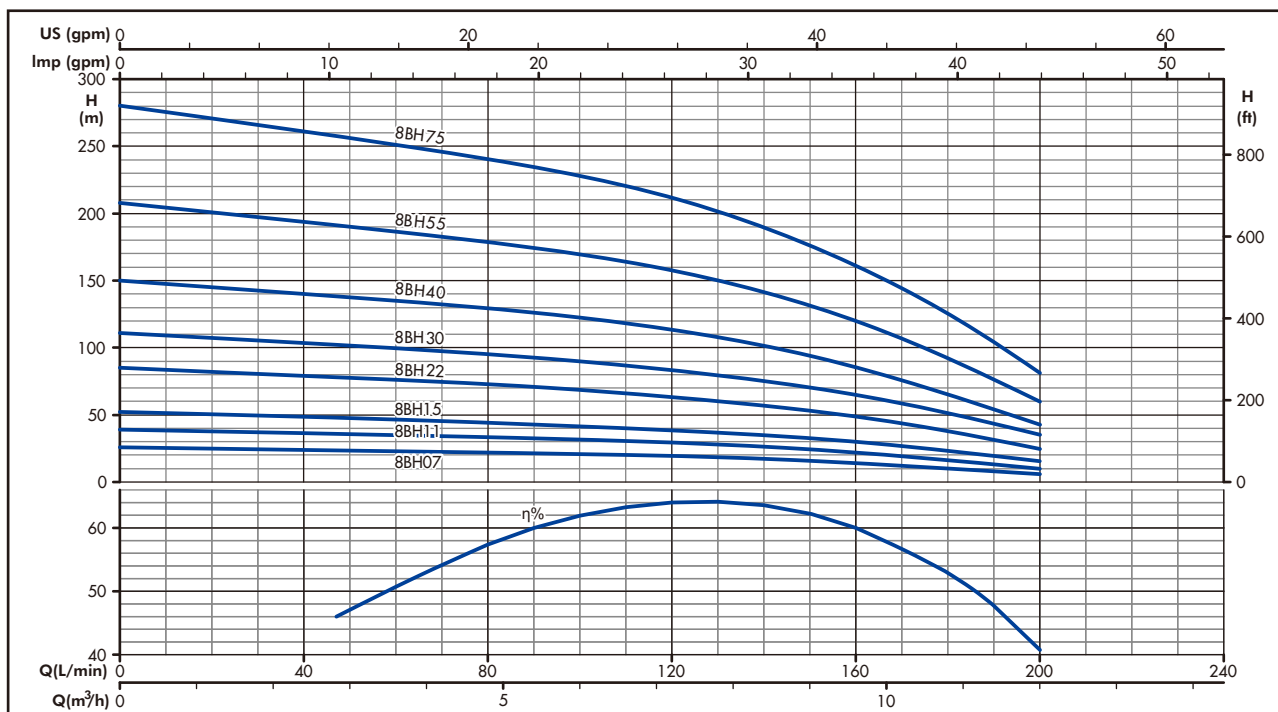
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
6BH05S	5	Rp1"1/4	322	663	2,8	11,7
6BH05T				658		10,8
6BH07S	7		384	745	3,4	13,2
6BH07T				740		12,3
6BH11S	10		477	869	4,2	15,3
6BH11T				869		14,6
6BH15S	14		601	1033	5,2	18,2
6BH15T				1018		16,7
6BH22S	21		856	1401	7,6	25,3
6BH22T				1326		21,7
6BH30T	29		1104	1624	9,7	26,2
6BH40T	38		1383	1977	12,1	33,5
6BH55T	52		1854	2558	16,3	44



## 8BH SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

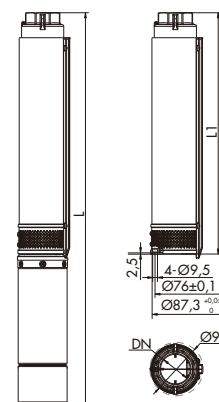


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY					
				l/min 0	40	80	120	160	200
				m <sup>3</sup> /h 0	2,4	4,8	7,2	9,6	12
H=TOTAL HEAD METERS COLUMN OF WATER									
8BH07S	4	0,75	1	26	24	22	20	15	6
8BH07T									
8BH11S	6	1,1	1,5	39	36	34	29	22	10
8BH11T									
8BH15S	8	1,5	2	52	49	45	39	30	15
8BH15T									
8BH22S	13	2,2	3	85	79	73	64	49	25
8BH22T									
8BH30T	17	3	4	111	103	95	83	64	35
8BH40T	23	4	5,5	150	140	129	113	86	43
8BH55T	32	5,5	7,5	208	194	179	157	120	60
8BH75T	43	7,5	10	280	260	241	211	161	81

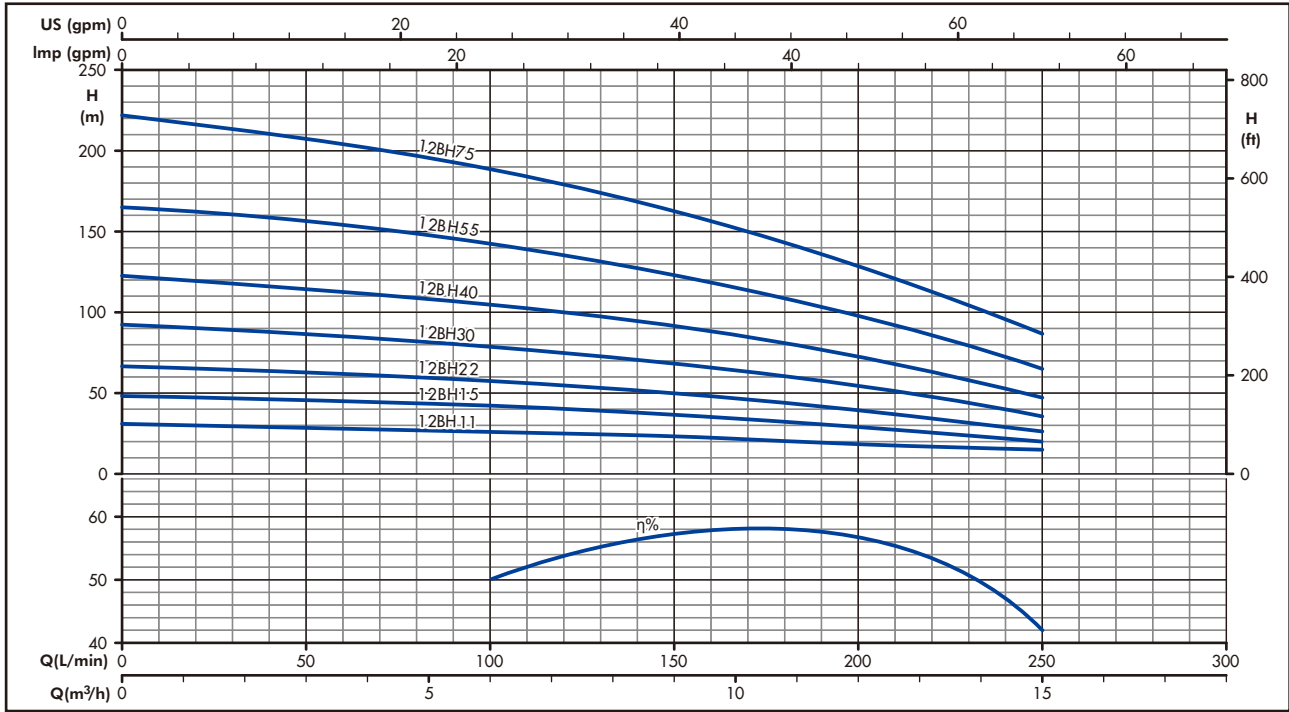
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
8BH07S	4	Rp2"	301	662	2,7	12,5
8BH07T				657		11,6
8BH11S	6		363	755	3,2	14,3
8BH11T				755		13,6
8BH15S	8		425	857	3,8	16,8
8BH15T				842		15,3
8BH22S	13		580	1125	5,2	22,9
8BH22T				1050		19,3
8BH30T	17		704	1224	6,3	22,8
8BH40T	23		928	1522	8,4	29,8
8BH55T	32		1207	1911	11	38,7
8BH75T	43		1585	2374	14,5	47,1



## 12BH SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

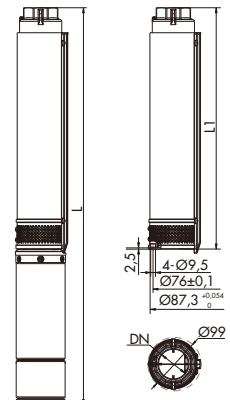


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY						
				l/min 0	100	120	140	160	200	250
				m <sup>3</sup> /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	49	42	40	38	34	29	19
12BH15T										
12BH22S	11	2,2	3	67	58	55	52	47	40	26
12BH22T										
12BH30T	15	3	4	92	79	75	71	65	54	36
12BH40T	20	4	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

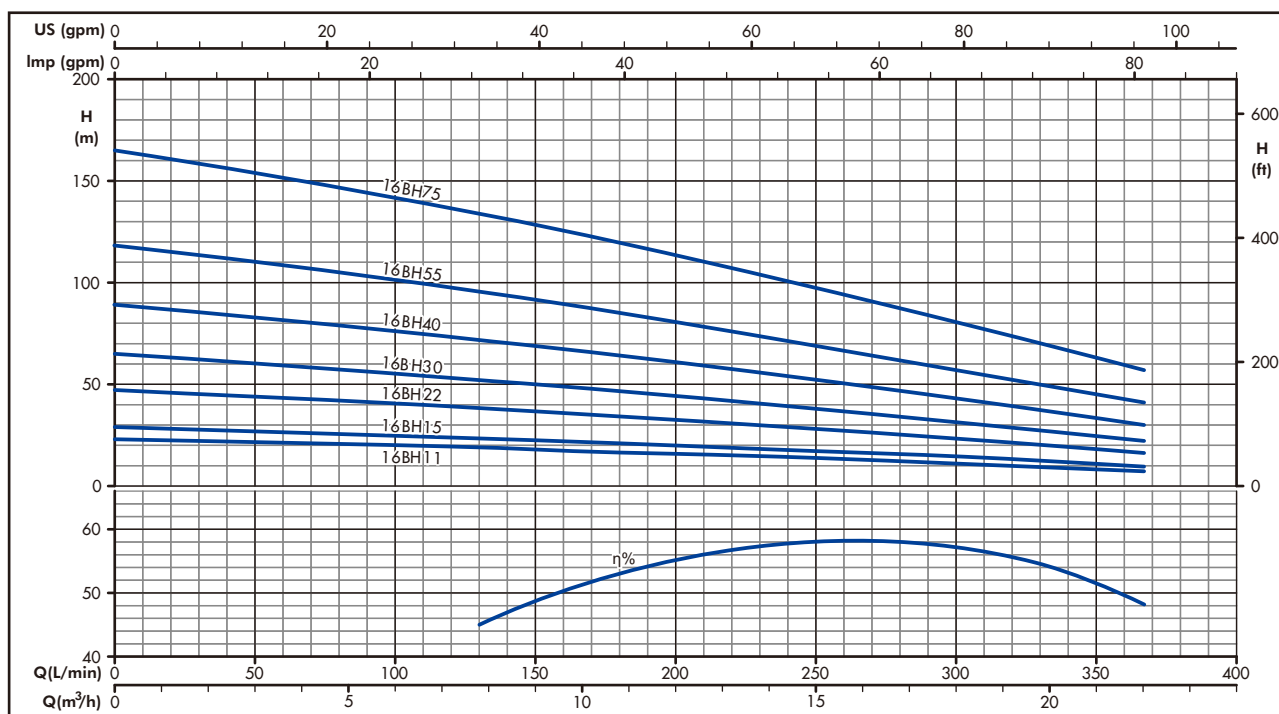
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
12BH11S	5	Rp2"	437	829	3,2	14,3
12BH11T				829		13,6
12BH15S	8		593	1025	4,7	17,7
12BH15T				1010		16,2
12BH22S	11		749	1294	6,1	23,8
12BH22T				1219		20,2
12BH30T	15		994	1514	8,5	25
12BH40T	20		1254	1848	10,8	32,2
12BH55T	27		1655	2359	14,7	42,4
12BH75T	36		2123	2912	19	51,6



## 16BH SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

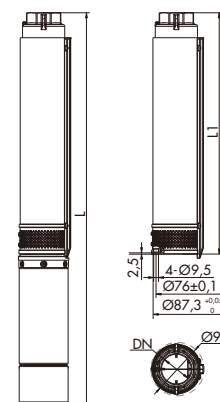


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY						
				l/min 0	140	160	200	250	300	367
				m <sup>3</sup> /h 0	8,4	9,6	12	15	18	22
H=TOTAL HEAD METERS COLUMN OF WATER										
16BH11S	4	1,1	1,5	23	19	18	16,5	14	11	8
16BH11T										
16BH15S	5	1,5	2	29	23	22	20	17	14	10
16BH15T										
16BH22S	8	2,2	3	47	37	36	32	27	23	16
16BH22T										
16BH30T	11	3	4	65	51	49	44	38	31	22
16BH40T	15	4	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
16BH11S	4	Rp2"	449	841	3,5	14,6
16BH11T				841		13,9
16BH15S	5		517	949	4,1	17,1
16BH15T				934		15,6
16BH22S	8		721	1266	6	23,7
16BH22T				1191		20,1
16BH30T	11		962	1482	8,4	24,9
16BH40T	15		1234	1828	10,9	32,3
16BH55T	20		1611	2315	13,7	41,4
16BH75T	28		2155	2944	18,8	51,4



## 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.
- Agricultural irrigation.
- Pressure boosting.
- Fire-fighting.
- Industrial application.

### SPECIFICATIONS

- Delivery: up to 22 m<sup>3</sup>/h at 2850 rpm.
- Head: up to 225 m at 2850 rpm.
- Maximum pump overall diameter (cable cover included): 99 mm.
- Maximum permissible quantity of sand: 150 g/m<sup>3</sup>.
- 1BM , 2BM , 3BM , 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, safeguarding impellers and diffusers.
- The BM series pumps can be coupled with the 4OS motors.
- Vertical and horizontal installation.
- Standard and special versions available.

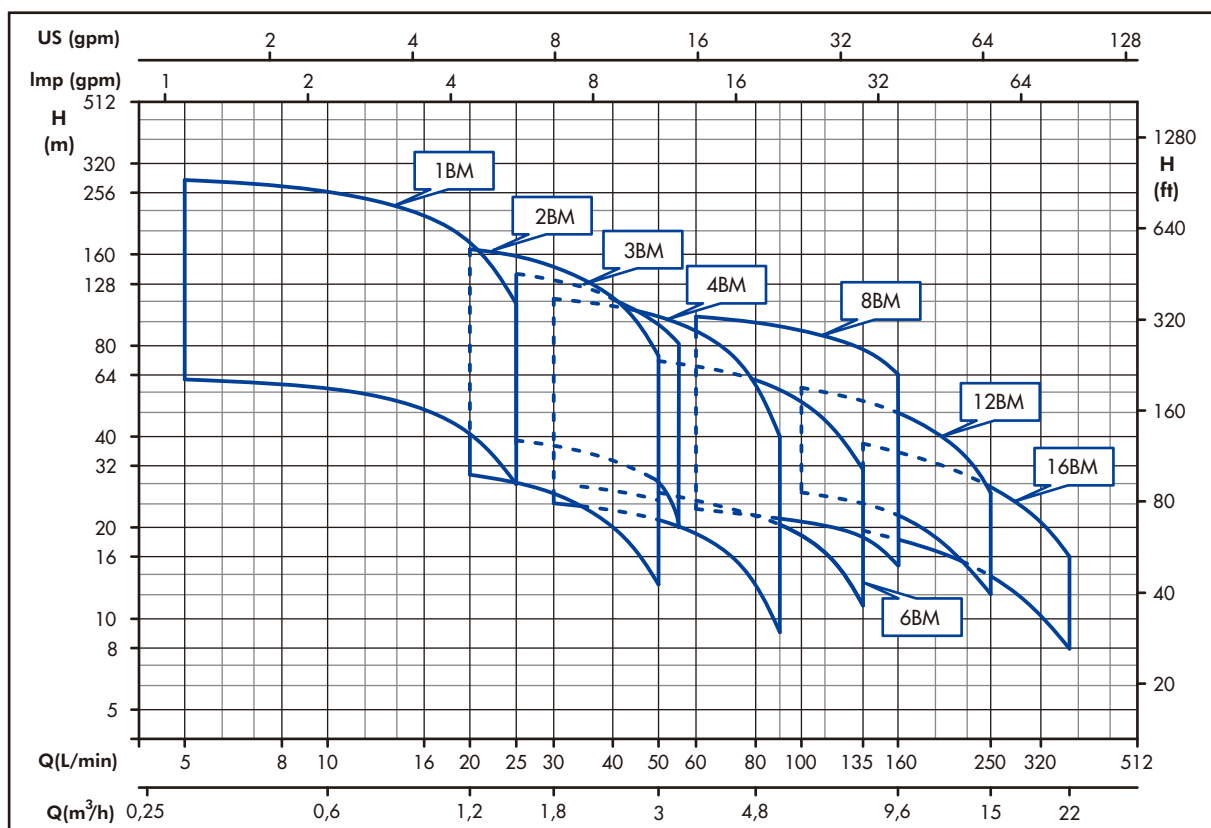
### OPTIONAL FEATURES

- Different voltage and frequency.
- Different materials.

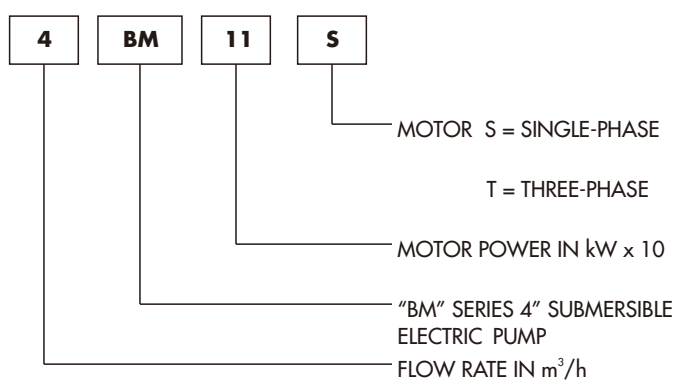


## BM SERIES

### HYDRAULIC PERFORMANCE RANGE AT 50 Hz



#### IDENTIFICATION CODE



#### EXAMPLE OF PUMP TYPE

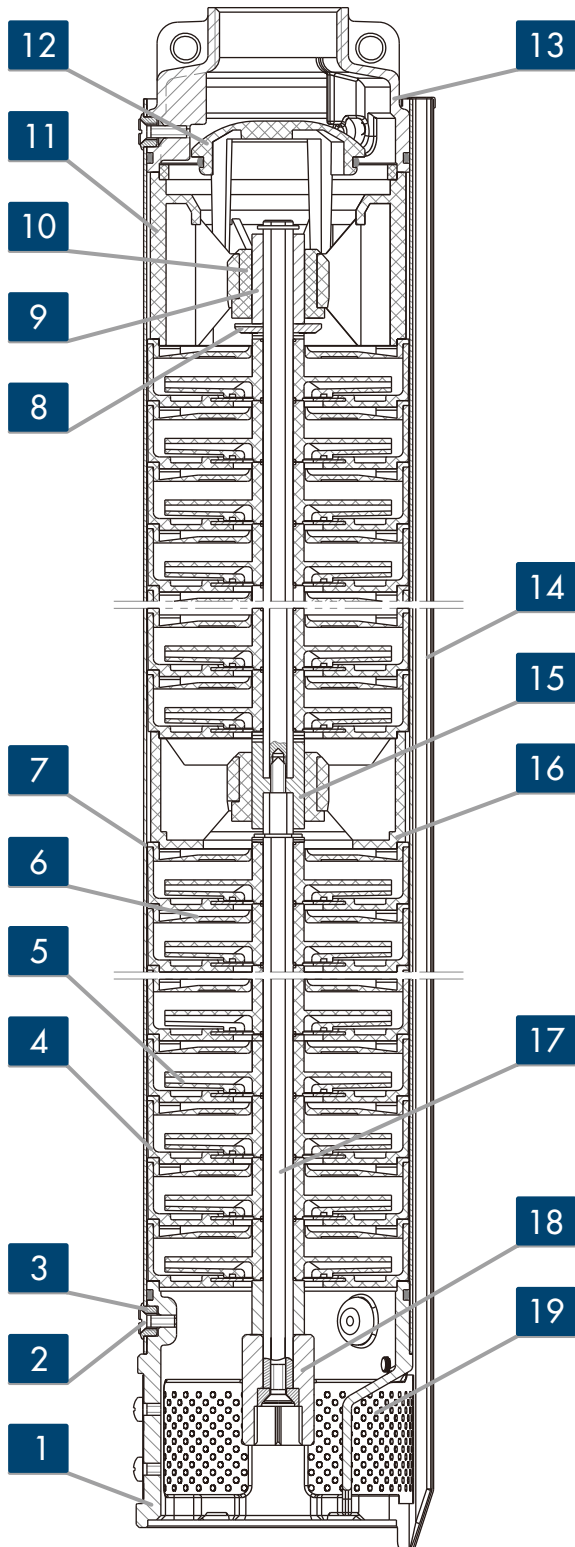
4BM11S

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



## 1BM-4BM SERIES

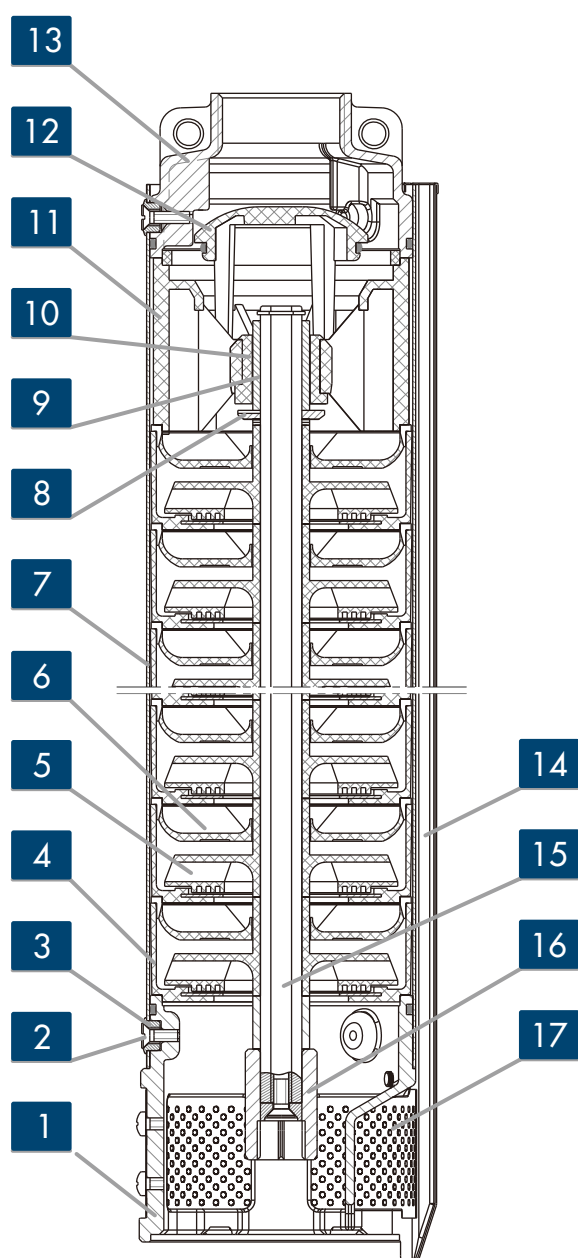
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel / cast iron	AISI 304 / ASTM 200A
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 / cast iron	AISI 304 / ASTM 200A
14	Cable guard	Stainless steel	AISI 304
15	Intermediate shaft sleeve	Stainless steel	AISI 304
16	Intermediate support	ABS	-----
17	Shaft	Stainless steel	AISI 420
18	Coupling	Stainless steel	AISI 304
19	Filter	Stainless steel	AISI 304

## 6BM-8BM SERIES

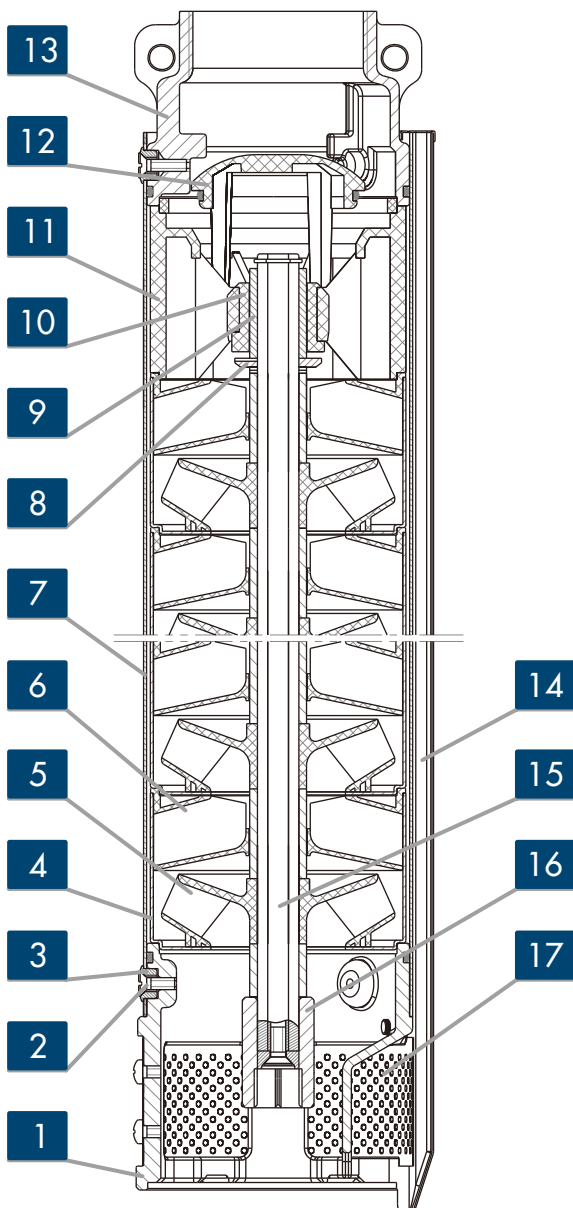
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel / cast iron	AISI 304 / ASTM 200A
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 / cast iron	AISI 304 / ASTM 200A
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

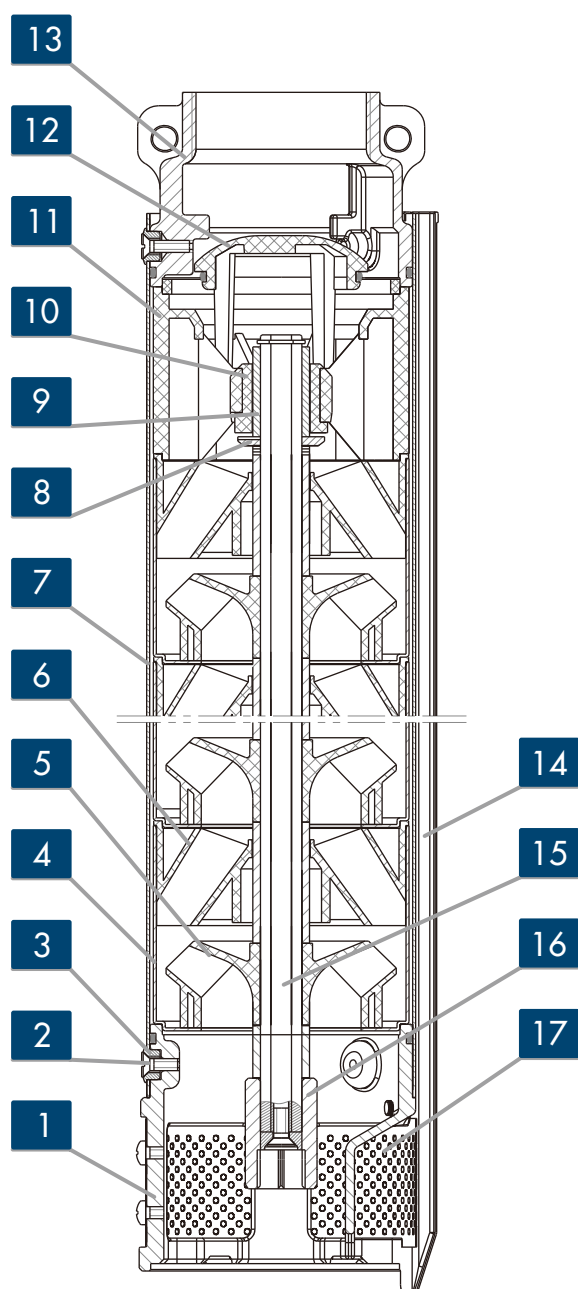
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel / cast iron	AISI 304
2	Screw	Stainless steel	AISI 304
3	Pin	Stainless steel	AISI 304
4	Stage housing	Stainless steel	AISI 304
5	Impeller	Noryl® PPO	-----
6	Diffuser	Noryl® PPO	-----
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 / cast iron	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

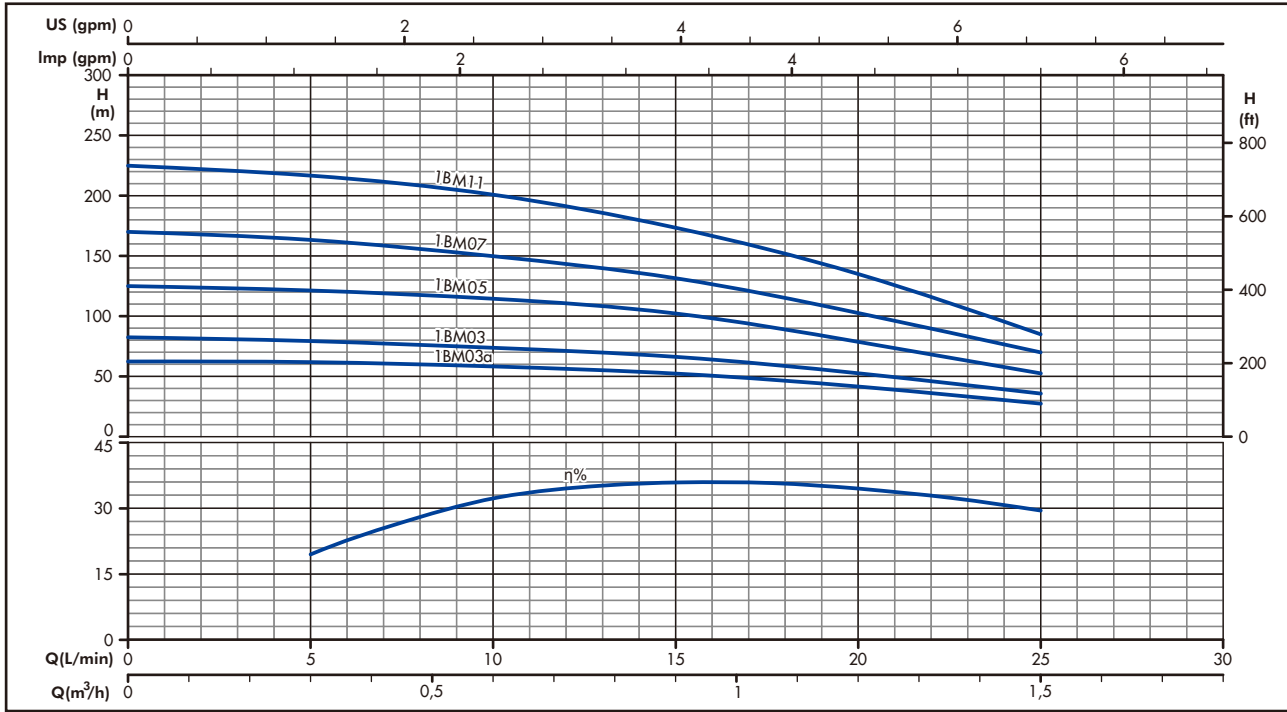
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel / cast iron	AISI 304 / ASTM 200A
2	Screw	Stainless steel	AISI 304
3	Pin	Stainless steel	AISI 304
4	Stage housing	Stainless steel	AISI 304
5	Impeller	Noryl® PPO	-----
6	Diffuser	Noryl® PPO	-----
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 / cast iron	AISI 304 / ASTM 200A
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

## 1BM SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

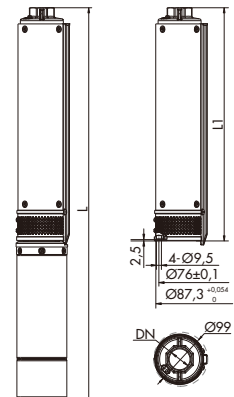


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY					
				l/min 0	5	10	15	20	25
				m <sup>3</sup> /h 0	0,3	0,6	0,9	1,2	1,5
H=TOTAL HEAD METERS COLUMN OF WATER									
1BM03S <sub>a</sub>	10	0,37	0,5	64	62	57	52	40	28
1BM03S	13	0,37	0,5	82	80	73	68	52	36
1BM03T									
1BM05S	19	0,55	0,75	125	120	110	102	76	54
1BM05T									
1BM07S	26	0,75	1	169	163	149	131	100	70
1BM07T									
1BM11S	37	1,1	1,5	225	218	200	172	135	85
1BM11T									

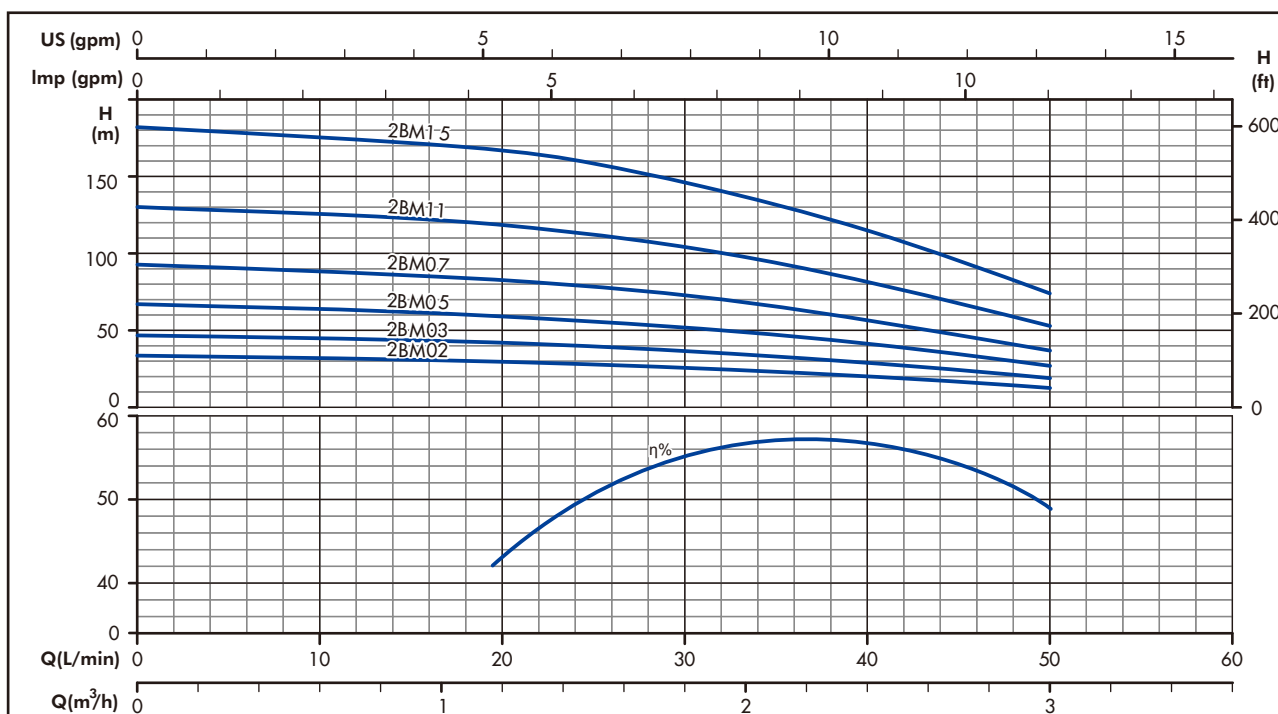
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
1BM03S <sub>a</sub>	10	Rp1"1/4	369	695	3,1	11,3
1BM03S	13		423	749	3,5	11,7
1BM03T				749		11,3
1BM05S	19		528	869	4,5	13,4
1BM05T				864		12,5
1BM07S	26		652	1013	5,4	15,2
1BM07T				1008		14,3
1BM11S	37		882	1274	7,1	18,2
1BM11T		1274		17,5		



## 2BM SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

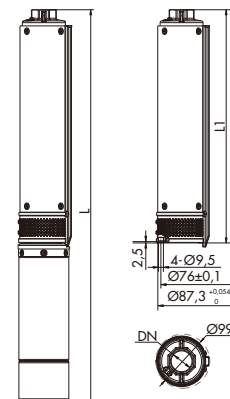


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY					
				l/min 0	20	25	30	40	50
				m <sup>3</sup> /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	0,75	67	60	56	52	41	27
2BM05T									
2BM07S	14	0,75	1	93	83	79	73	57	37
2BM07T									
2BM11S	20	1,1	1,5	130	119	113	104	82	53
2BM11T									
2BM15S	28	1,5	2	182	167	158	146	115	74
2BM15T									

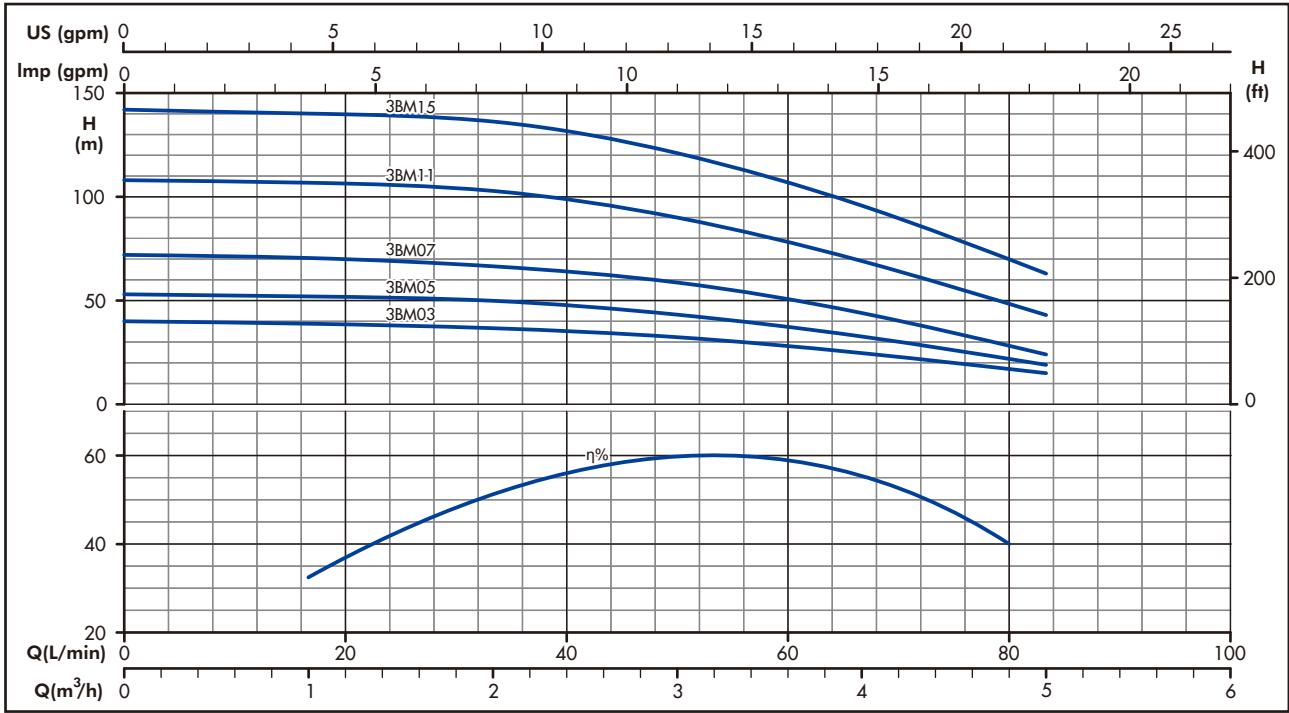
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
2BM02S	5	Rp1"1/4	299	615	2,6	10,4
2BM03S	7		341	667	2,8	11
2BM03T				667		10,6
2BM05S	10		405	746	3,3	12,2
2BM05T				741		11,3
2BM07S	14		489	850	3,8	13,6
2BM07T				845		12,7
2BM11S	20		616	1008	4,7	15,8
2BM11T				1008		15,1
2BM15S	28		785	1217	5,7	18,7
2BM15T				1202		17,2



### 3BM SERIES

#### OPERATING CHARACTERISTICS AT 50 Hz

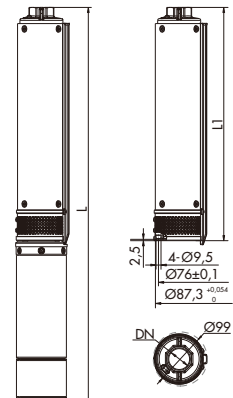


#### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q = DELIVERY					
				l/min 0	17	33	50	67	84
				m³/h 0					
				1	2	3	4	5	
H = TOTAL HEAD METERS COLUMN OF WATER									
3BM03S	6	0,37	0,5	40	39	37	33	25	15
3BM03T									
3BM05S	8	0,55	0,75	53	52	50	43	33	19
3BM05T									
3BM07S	11	0,75	1	72	71	67	59	44	24
3BM07T									
3BM11S	16	1,1	1,5	108	107	103	90	69	43
3BM11T									
3BM15S	21	1,5	2	142	141	136	121	96	63
3BM15T									

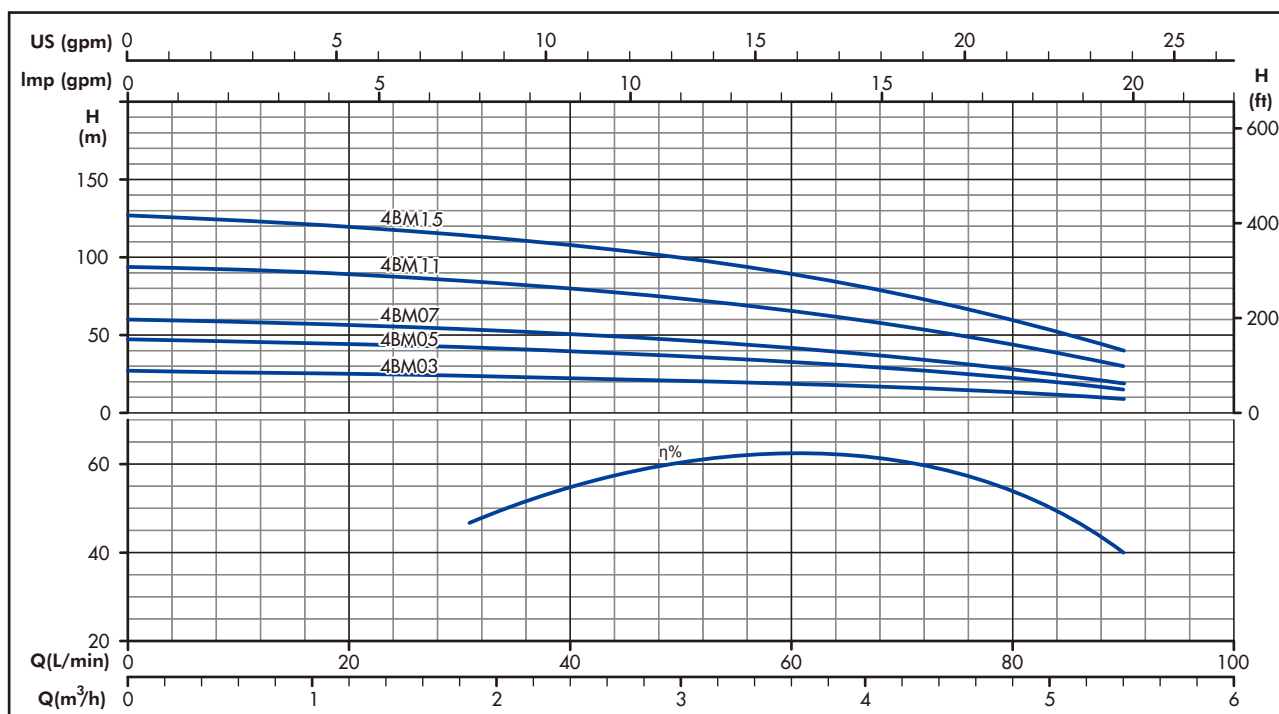
#### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
3BM03S	6	Rp1"1/4	347	673	4,2	12,4
3BM03T				673		12
3BM05S	8		398	739	4,6	13,5
3BM05T				734		12,6
3BM07S	11		474	835	5	14,8
3BM07T				830		13,9
3BM11S	16		602	994	5,7	16,8
3BM11T				994		16,1
3BM15S	21		729	1161	6,5	19,5
3BM15T				1146		18



## 4BM SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

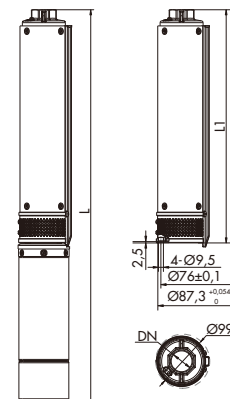


### OPERATING CHARACTERISTICS AT 50 Hz

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	0,75	47	42	40	37	33	22	15
4BM05T										
4BM07S	9	0,75	1	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	127	114	108	100	89	60	40
4BM15T										

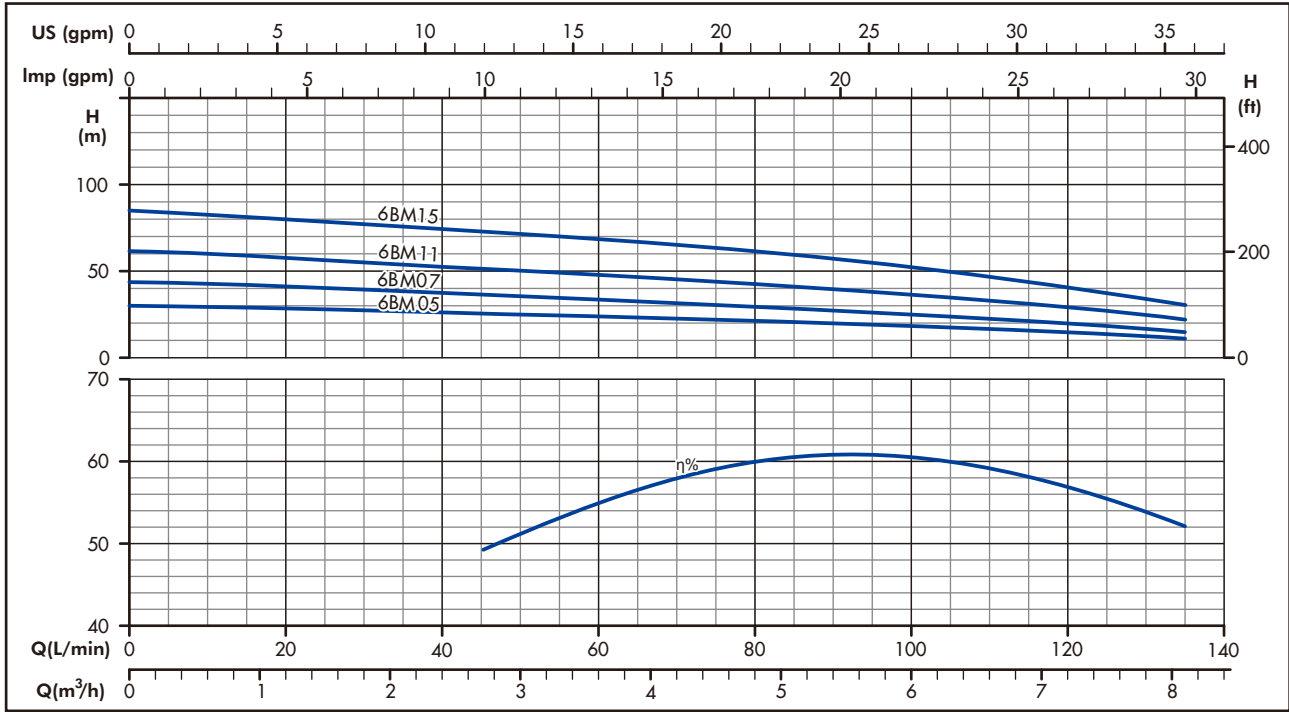
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
4BM03S	4	Rp1"1/4	296	622	2,5	10,7
4BM03T				622		10,3
4BM05S	7		371	712	3	11,9
4BM05T				707		11
4BM07S	9		423	784	3,4	13,2
4BM07T				779		12,3
4BM11S	14		550	942	4,3	15,4
4BM11T				942		14,7
4BM15S	19		677	1109	5,6	18,6
4BM15T				1094		17,1



## 6BM SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

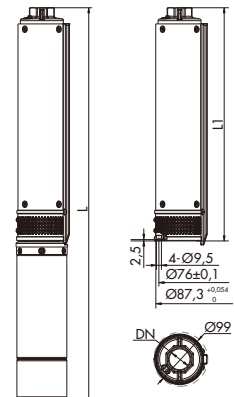


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY						
				l/min 0	60	75	90	105	120	135
				m <sup>3</sup> /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	0,75	30	25	23	20	18	15	11
6BM05T										
6BM07S	7	0,75	1	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	85	69	64	57	50	41	31
6BM15T										

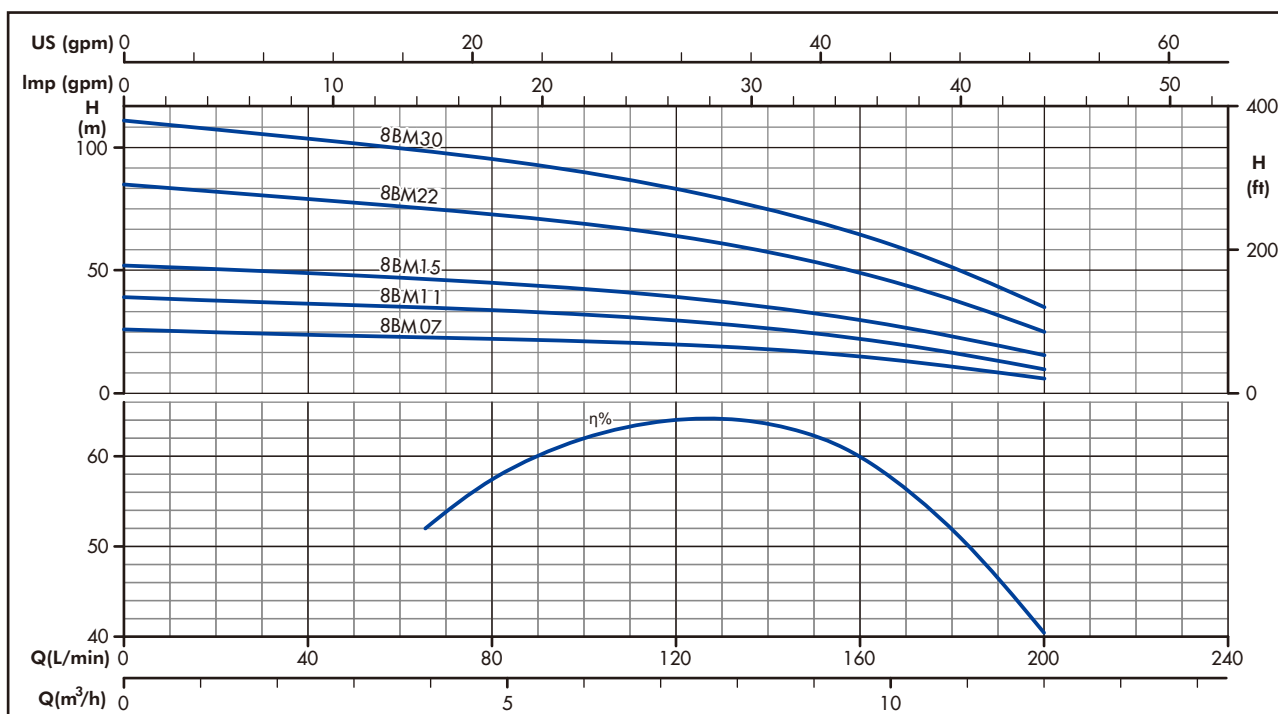
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
6BM05S	5	Rp1"1/4	357	698	3	11,9
6BM05T				693		11
6BM07S	7		423	784	3,4	13,2
6BM07T				779		12,3
6BM11S	10		522	914	4,1	15,2
6BM11T				914		14,5
6BM15S	14		655	1087	4,9	17,9
6BM15T				1072		16,4



## 8BM SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

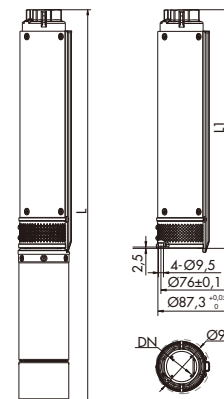


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY					
				l/min 0	40	80	120	160	200
				m <sup>3</sup> /h 0	2,4	4,8	7,2	9,6	12
H=TOTAL HEAD METERS COLUMN OF WATER									
8BM07S	4	0,75	1	26	24	22	20	15	6
8BM07T									
8BM11S	6	1,1	1,5	39	36	34	29	22	10
8BM11T									
8BM15S	8	1,5	2	52	49	45	39	30	15
8BM15T									
8BM22S	13	2,2	3	85	79	73	64	49	25
8BM22T									
8BM30T	17	3	4	111	103	95	83	64	35

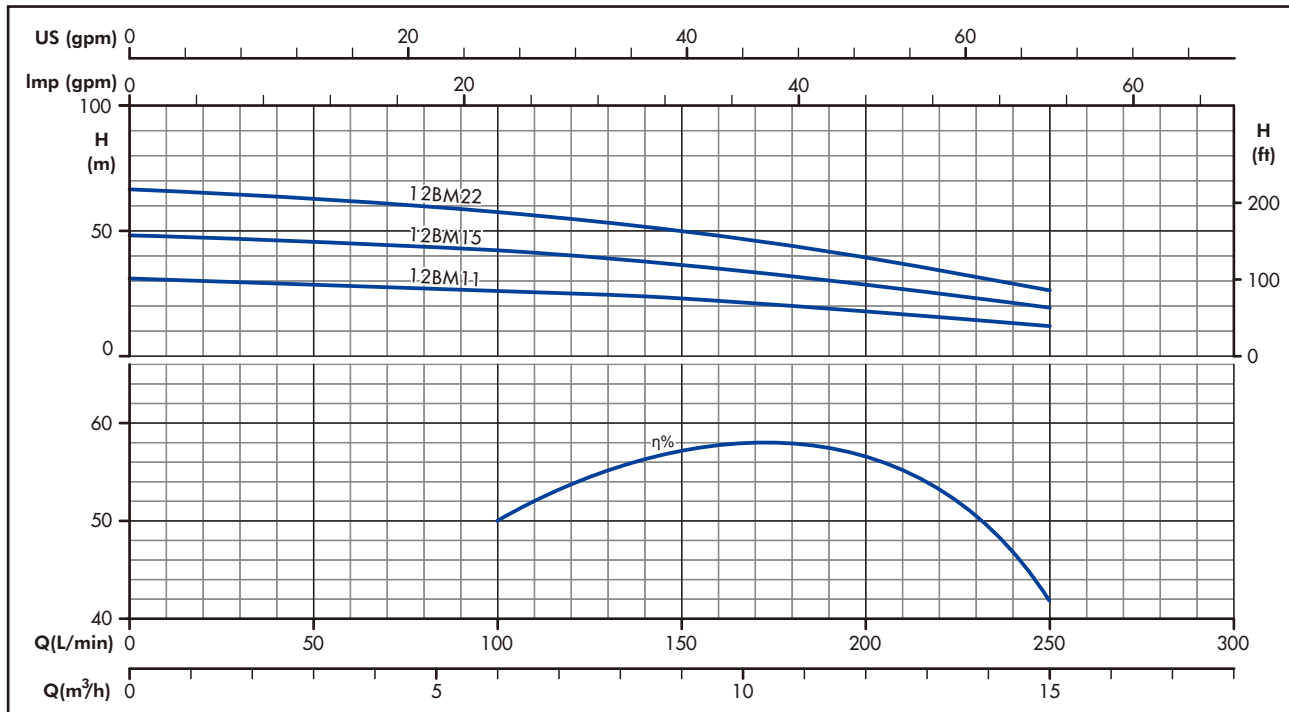
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
8BM07S	4	Rp2"	334	695	2,7	12,5
8BM07T				690		11,6
8BM11S	6		400	792	3,2	14,3
8BM11T				792		13,6
8BM15S	8		466	898	3,6	16,6
8BM15T				883		15,1
8BM22S	13		631	1176	4,7	22,4
8BM22T				1101		18,8
8BM30T	17		764	1284	5,6	22



## 12BM SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

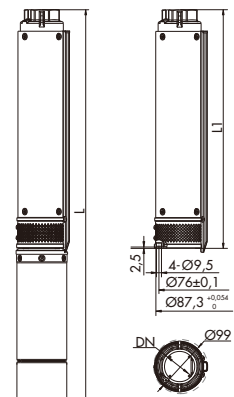


### OPERATING CHARACTERISTICS AT 50 Hz

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

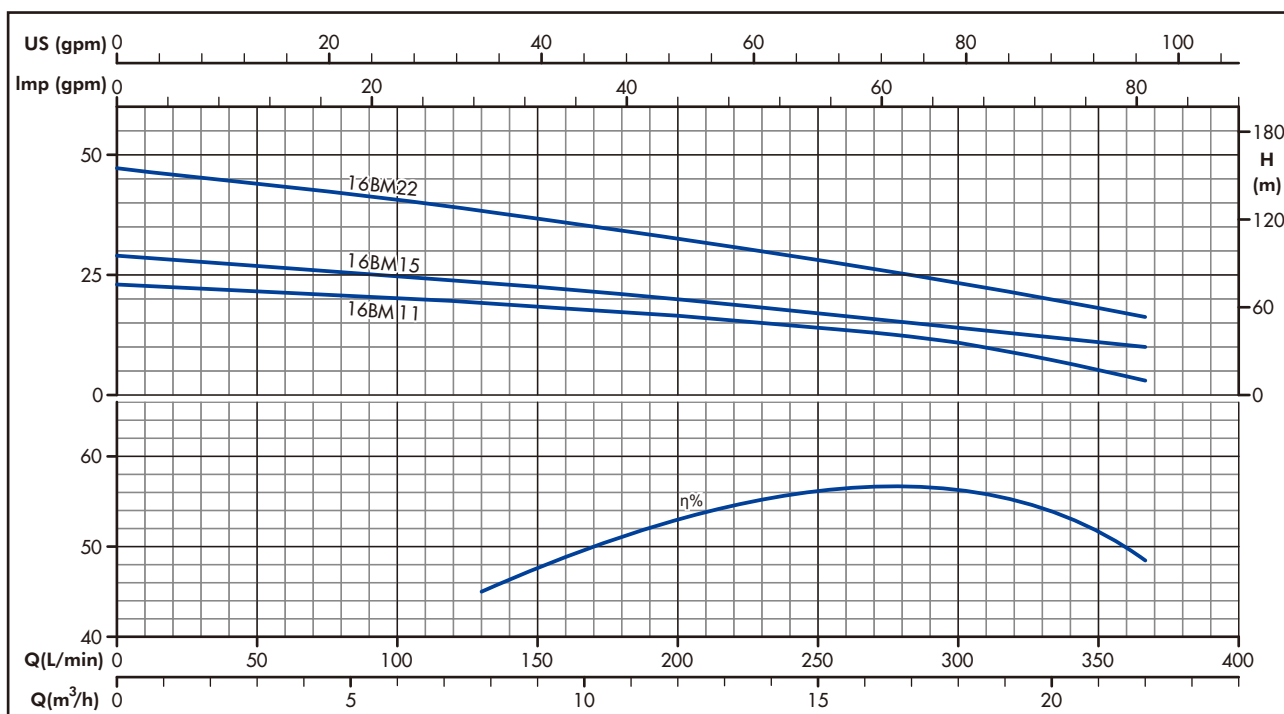
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
12BM11S	5	Rp2"	464	856	3,9	15
12BM11T				856		14,3
12BM15S	8		620	1052	5,2	18,2
12BM15T				1037		16,7
12BM22S	11		776	1321	6,4	24,1
12BM22T				1246		20,5



## 16BM SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

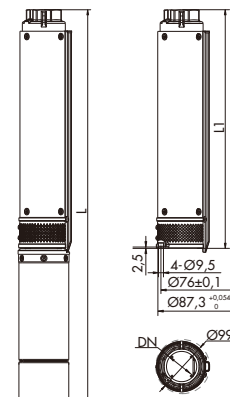


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY						
				l/min 0	140	160	200	250	300	367
				m <sup>3</sup> /h 0	8,4	9,6	12	15	18	22
H=TOTAL HEAD METERS COLUMN OF WATER										
16BM11S	4	1,1	1,5	23	19	18	16,5	14	11	8
16BM11T										
16BM15S	5	1,5	2	29	23	22	20	17	14	10
16BM15T										
16BM22S	8	2,2	3	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
16BM11S	4	Rp2"	475	867	3,9	15
16BM11T				867		14,3
16BM15S	5		543	975	4,4	17,4
16BM15T				960		15,9
16BM22S	8		747	1292	6	23,7
16BM22T				1217		20,1



## SP SERIES 4" SUBMERSIBLE ELECTRIC PUMPS

- Completely made of corrosion-resistant stainless steel AISI 304, SP pumps are ideal for a wide variety of applications with high efficiency and reliability.

### APPLICATIONS

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

### SPECIFICATIONS

- Delivery: up to 19 m<sup>3</sup>/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<sup>3</sup>.
- 1SP , 2SP , 3SP , 5SP versions: delivery port Rp1"1/4.
- 8SP , 14SP versions: delivery port Rp2" .

### MOTOR

- 4OS single-phase version:  
from 0,37 to 2,2 kW, 220 V, 50 Hz.
- 4OS three-phase version:  
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.

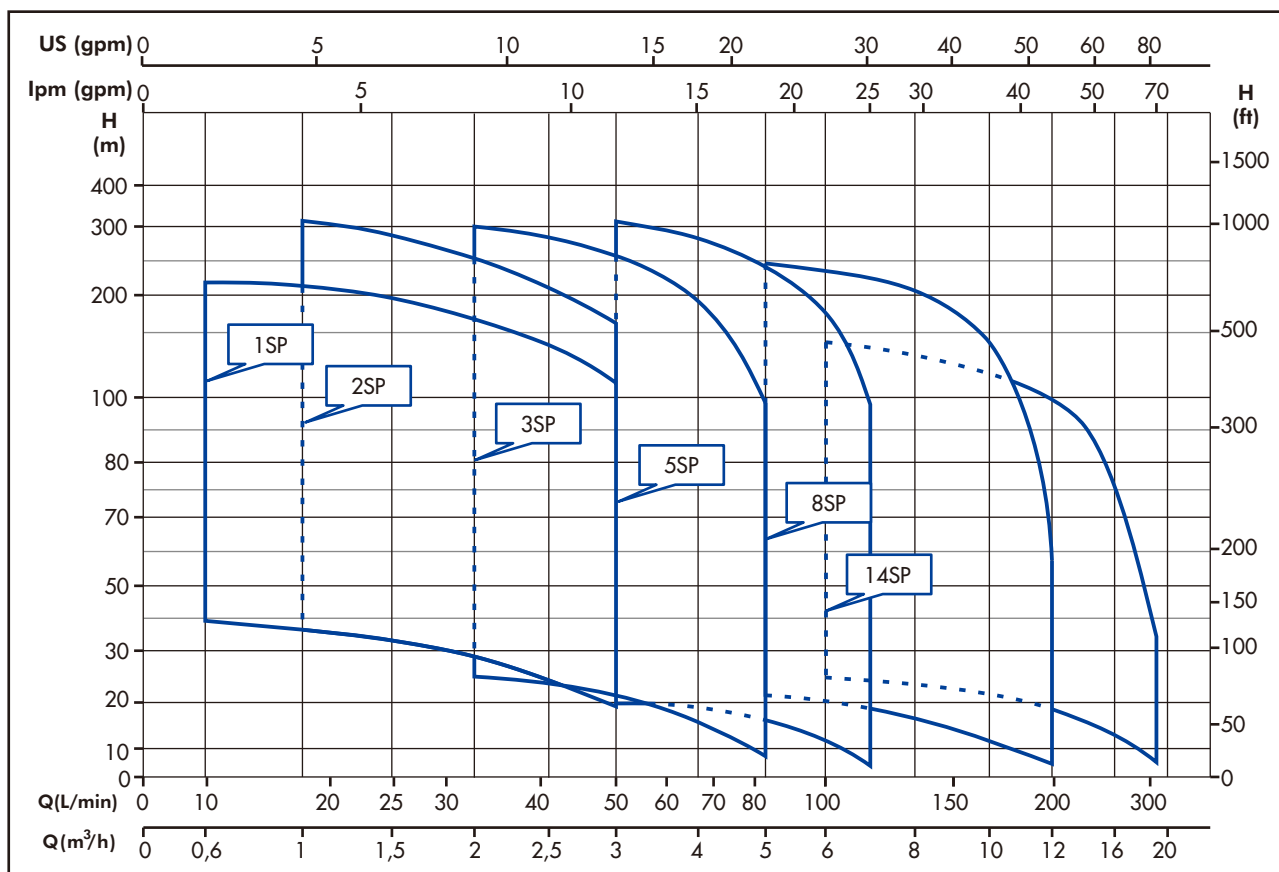
### OPTIONAL FEATURES

- Different voltage and frequency.

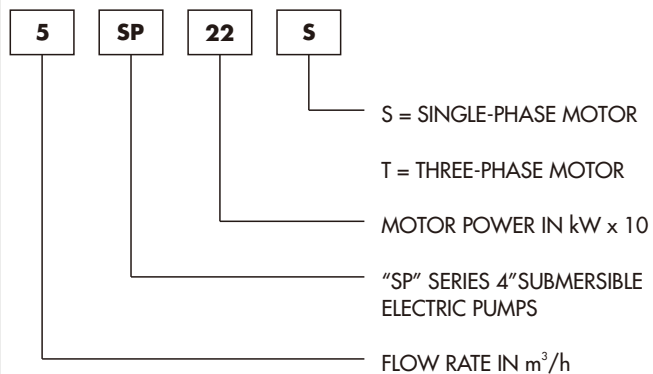


## SP SERIES

### HYDRAULIC PERFORMANCE RANGE AT 50 Hz



#### IDENTIFICATION CODE



#### EXAMPLE OF PUMP TYPE

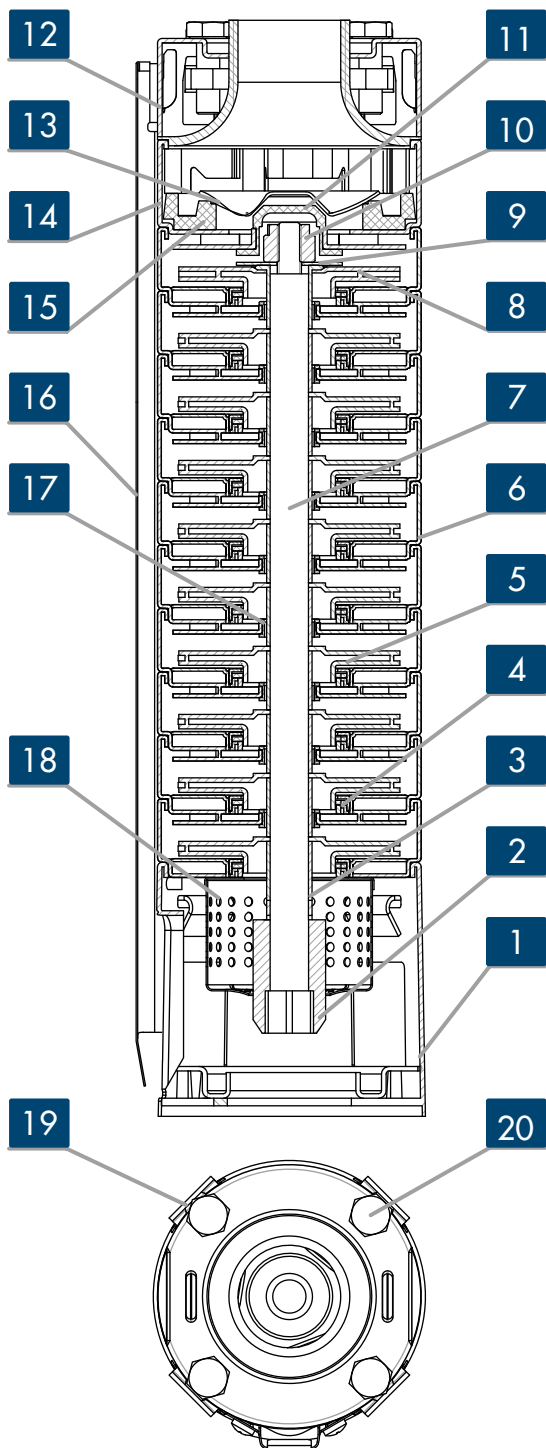
5SP22S

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



## 1SP-5SP SERIES

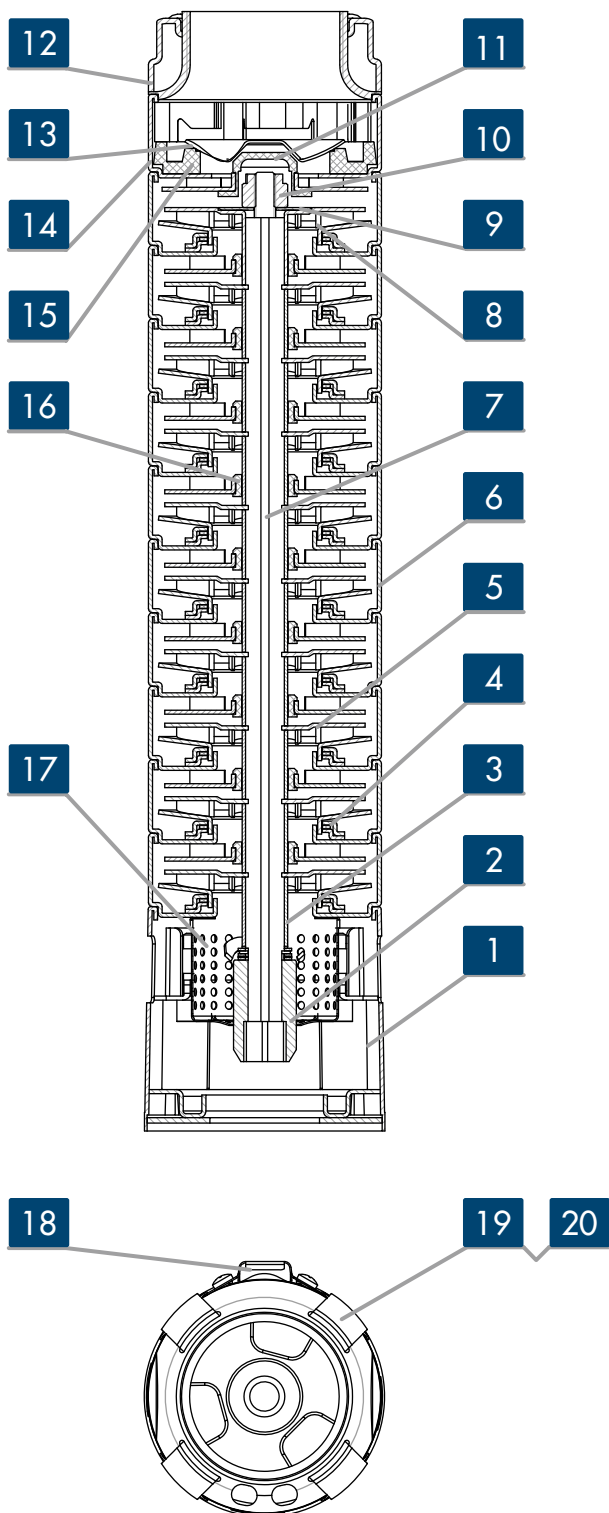
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Stainless steel	AISI 304
2	Coupling	Stainless steel	AISI 304
3	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	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

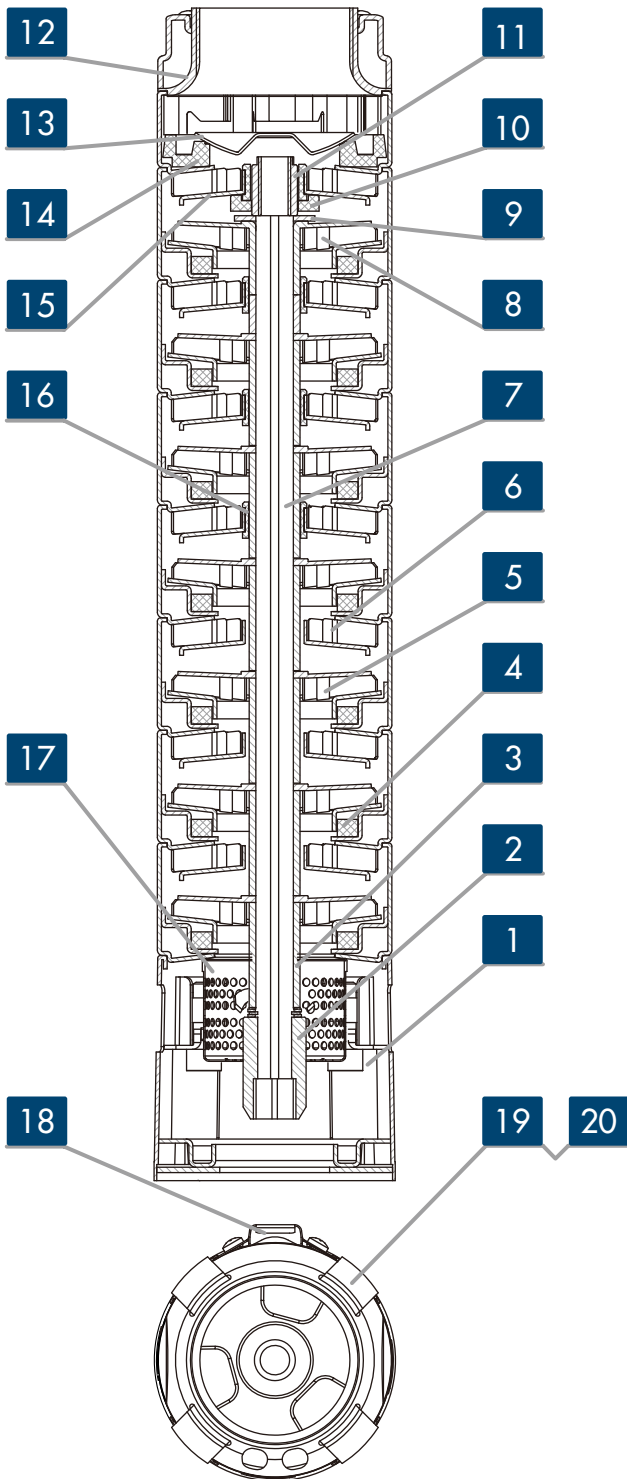
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



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

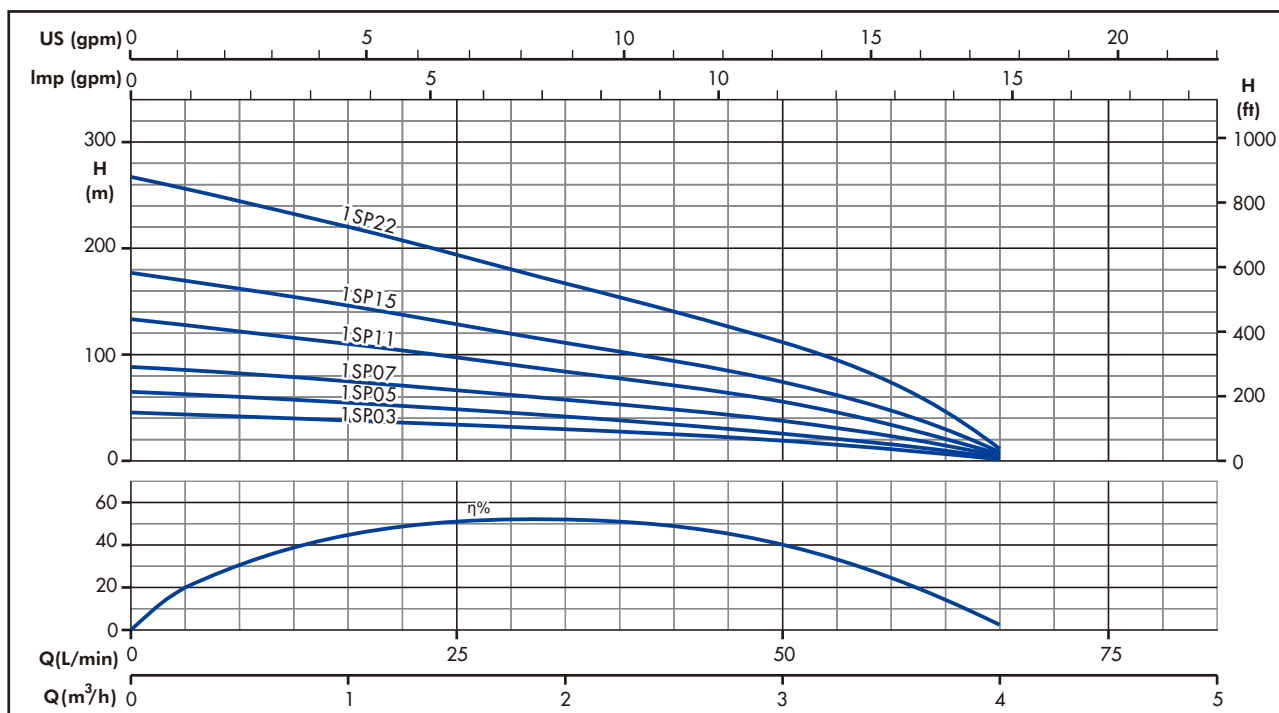
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



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
13	Valve support	NBR	-----
14	Non-return valve	Stainless steel	AISI 304
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

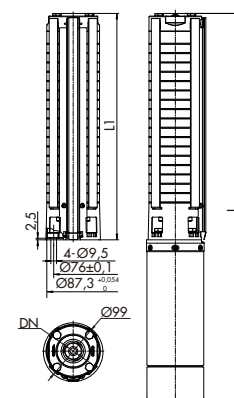


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY							
				L/min 0	10	17	25	33	42	50	67
				m3/h 0	0,6	1	1,5	2	2,5	3	4
				H=TOTAL HEAD METERS COLUMN OF WATER							
1SP03S	7	0,37	0,5	45	39	37	32	29	24	19	1
1SP03T											
1SP05S	10	0,55	0,75	64	56	52	47	41	34	28	1
1SP05T											
1SP07S	14	0,75	1	88	78	73	66	57	48	38	2
1SP07T											
1SP11S	21	1,1	1,5	135	117	110	99	83	72	58	2
1SP11T											
1SP15S	28	1,5	2	178	157	147	133	110	96	75	3
1SP15T											
1SP22S	42	2,2	3	268	235	220	194	166	145	112	5
1SP22T											

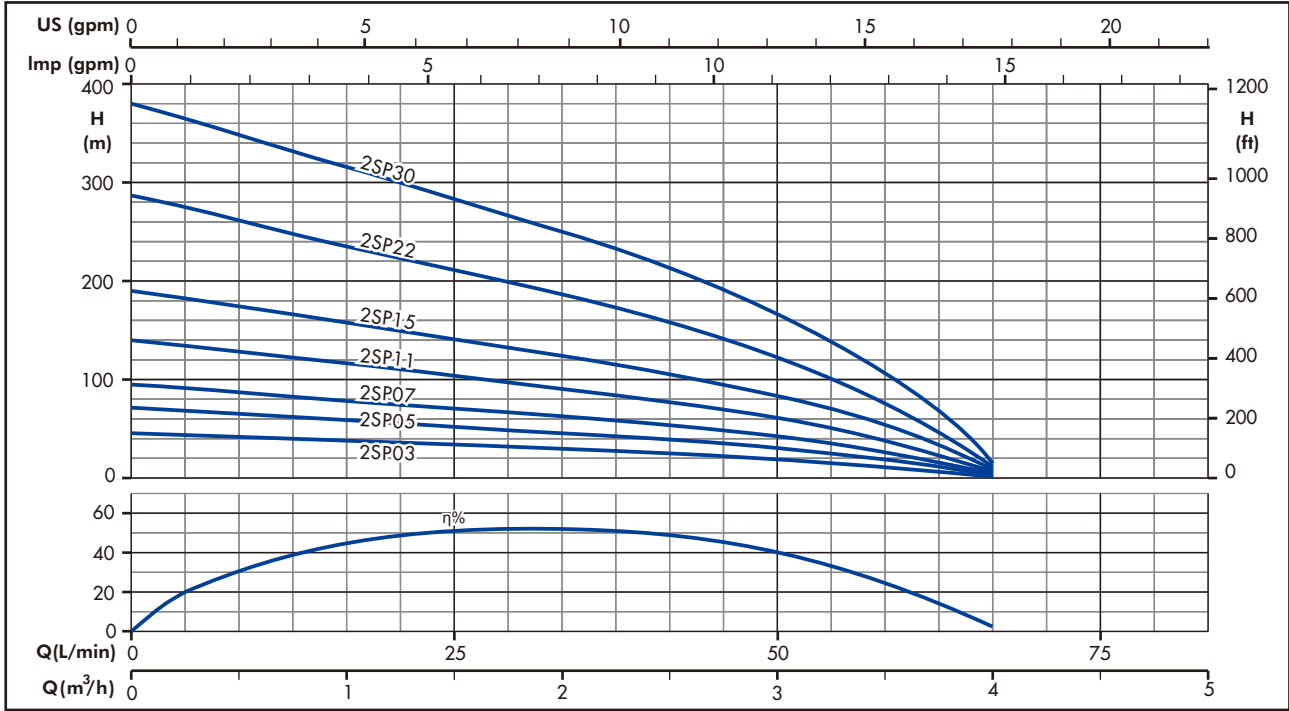
### DIMENSIONS AND WEIGHTS AT 50 Hz

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	10,7
1SP03T				628		10,3
1SP05S	10		365	706	3,1	12
1SP05T				701		11,1
1SP07S	14		449	810	3,9	13,7
1SP07T				805		12,8
1SP11S	21		596	988	5,3	16,4
1SP11T				988		15,7
1SP15S	28		743	1175	6,7	19,7
1SP15T				1160		18,2
1SP22S	42		1037	1582	9,5	27,2
1SP22T				1507		23,6



## 2SP SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

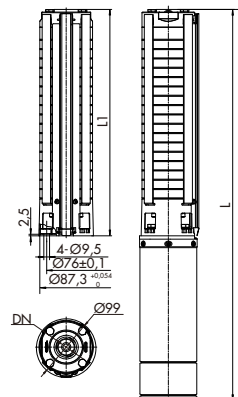


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY							
				L/min 0	17	25	33	42	50	67	
				m <sup>3</sup> /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	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	190	157	140	125	106	83	3	
2SP15T											
2SP22S	45	2,2	3	286	235	210	188	159	121	5	
2SP22T											
2SP30T	60	3	4	380	313	280	251	213	167	7	

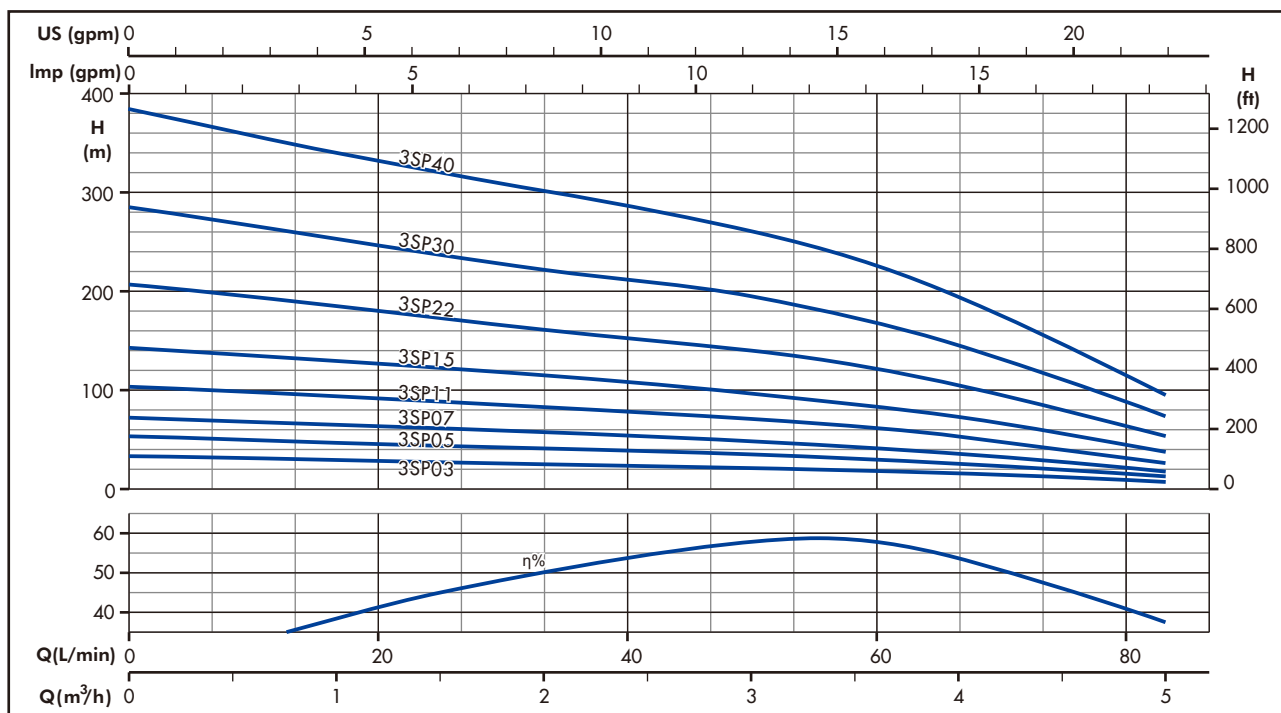
### DIMENSIONS AND WEIGHTS AT 50 Hz

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	10,7
2SP03T				628		10,3
2SP05S	11		386	727	3,3	12,2
2SP05T				722		11,3
2SP07S	15		470	831	4,1	13,9
2SP07T				826		13
2SP11S	22		617	1009	5,5	16,6
2SP11T				1009		15,9
2SP15S	30		785	1217	7,1	20,1
2SP15T				1202		18,6
2SP22S	45		1100	1645	10,1	27,8
2SP22T				1570		24,2
2SP30T	60		1415	1935	13,1	29,6



### 3SP SERIES

#### OPERATING CHARACTERISTICS AT 50 Hz

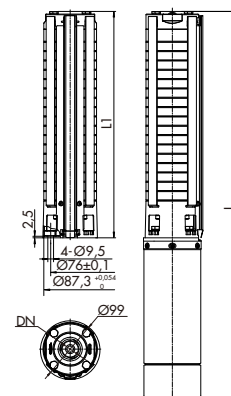


#### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY						
				L/min 0	17	33	42	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	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	142	130	115	103	96	72	37
3SP15T										
3SP22S	32	2,2	3	207	185	160	149	140	104	53
3SP22T										
3SP30T	44	3	4	285	254	220	205	195	144	73
3SP40T	59	4	5,5	384	340	300	275	260	194	98

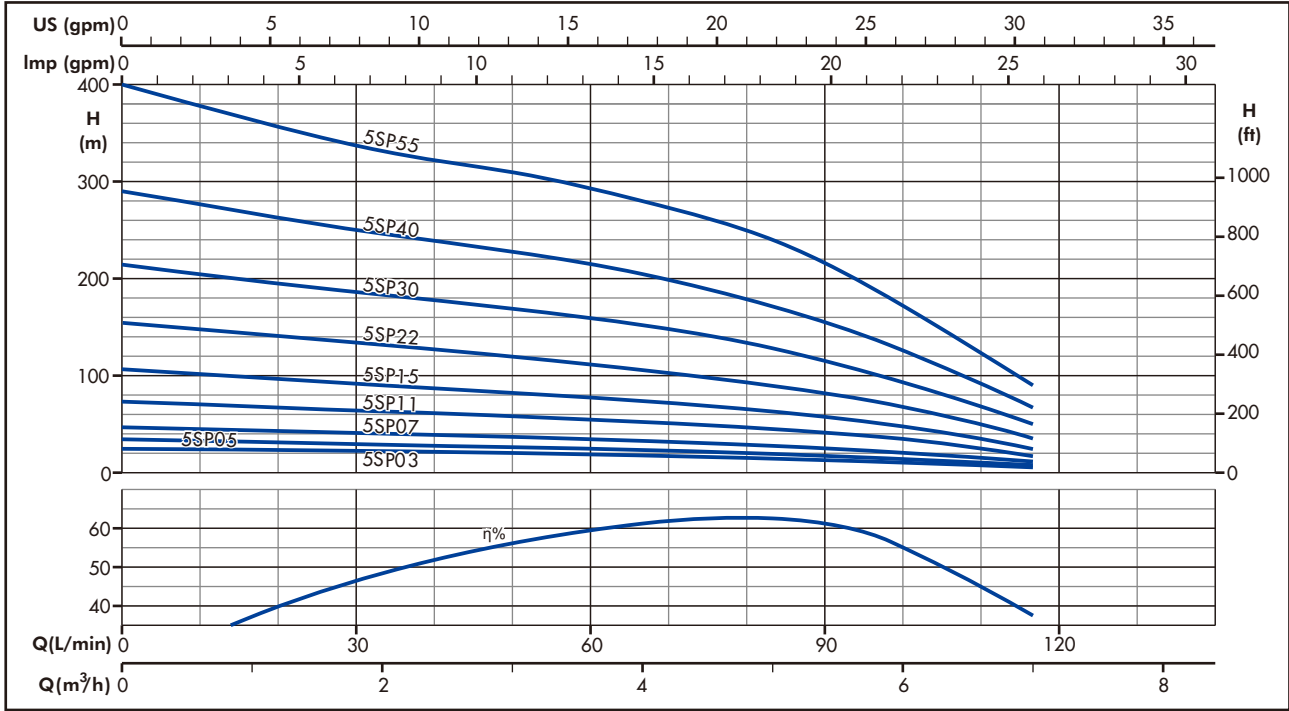
#### DIMENSIONS AND WEIGHTS AT 50 Hz

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	10,3
3SP03T				586		9,9
3SP05S	8		323	664	2,7	11,6
3SP05T				659		10,7
3SP07S	11		386	747	3,3	13,1
3SP07T				742		12,2
3SP11S	16		491	883	4,3	15,4
3SP11T				883		14,7
3SP15S	22		617	1049	5,5	18,5
3SP15T				1034		17
3SP22S	32		827	1372	7,5	25,2
3SP22T				1297		21,6
3SP30T	44		1079	1599	9,9	26,4
3SP40T	59		1394	1988	12,9	34,3



## 5SP SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

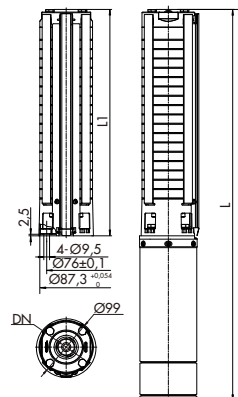


### OPERATING CHARACTERISTICS AT 50 Hz

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	4	0,37	0,5	25	23	20	19	16	12	6
5SP03T										
5SP05S	5	0,55	0,75	33	30	26	24	19	15	8
5SP05T										
5SP07S	7	0,75	1	47	40	36	33	28	21	11
5SP07T										
5SP11S	11	1,1	1,5	74	62	58	52	44	33	17
5SP11T										
5SP15S	16	1,5	2	108	90	83	76	66	48	25
5SP15T										
5SP22S	23	2,2	3	155	132	121	109	92	68	35
5SP22T										
5SP30T	32	3	4	217	182	170	152	128	94	49
5SP40T	43	4	5,5	290	243	228	204	174	128	66
5SP55T	59	5,5	7,5	400	333	312	281	240	176	91

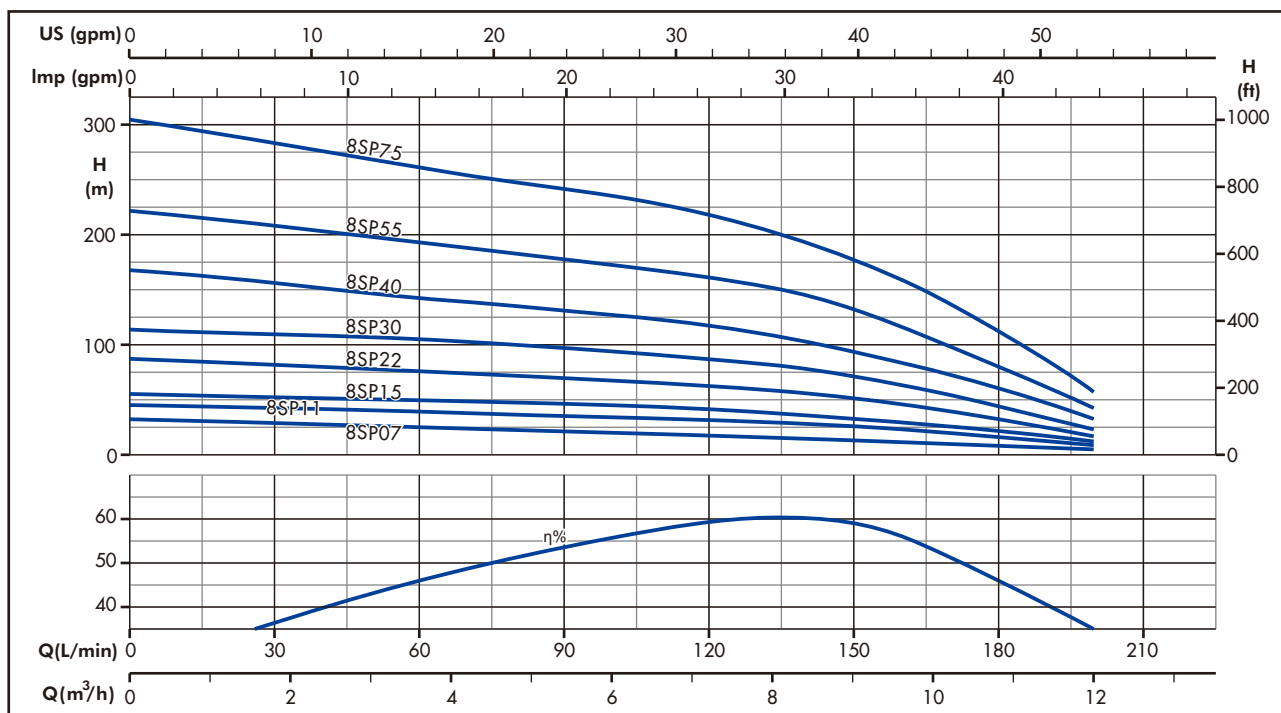
### DIMENSIONS AND WEIGHTS AT 50 Hz

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	10,1
5SP03T				565		9,7
5SP05S	5		260	601	2,2	11,1
5SP05T				596		10,2
5SP07S	7		302	663	2,6	12,4
5SP07T				658		11,5
5SP11S	11		386	778	3,4	14,5
5SP11T				778		13,8
5SP15S	16		491	923	4,5	17,5
5SP15T				908		16
5SP22S	23		638	1183	5,9	23,6
5SP22T				1108		20
5SP30T	32		827	1347	7,8	24,3
5SP40T	43		1058	1652	10,1	31,5
5SP55T	59	1394	2098	13,5	41,2	



## 8SP SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

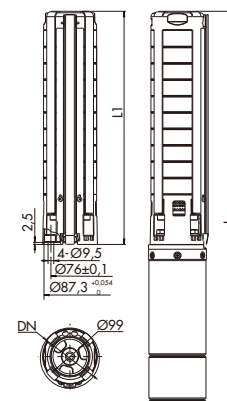


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY							
				L/min 0	33	67	100	133	167	200	
				m <sup>3</sup> /h 0	2	4	6	8	10	12	
H=TOTAL HEAD METERS COLUMN OF WATER											
8SP07S	4	0,75	1	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	57	54	48	44	39	27	11	
8SP15T											
8SP22S	14	2,2	3	89	83	75	68	59	42	17	
8SP22T											
8SP30T	19	3	4	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	

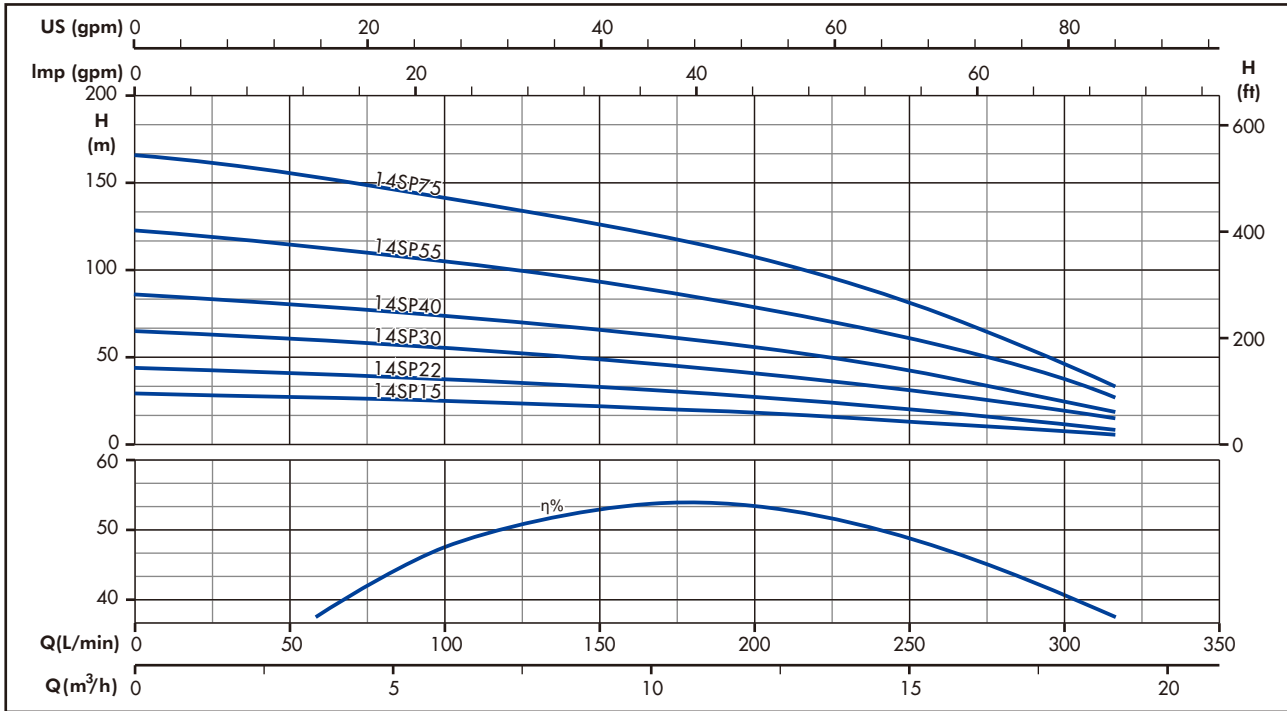
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
8SP07S	4	Rp2"	261	622	2,2	12
8SP07T				617		11,1
8SP11S	7		343	735	3	14,1
8SP11T				735		13,4
8SP15S	9		398	830	3,5	16,5
8SP15T				815		15
8SP22S	14		536	1081	4,9	22,6
8SP22T				1005		19
8SP30T	19		673	1193	6,2	22,7
8SP40T	26		866	1460	8,1	29,5
8SP55T	35		1113	1817	10,5	38,2
8SP75T	48		1471	2260	14	46,6



## 14SP SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

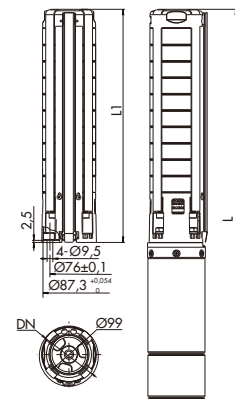


### OPERATING CHARACTERISTICS AT 50 Hz

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	29	25	23	21	19	16	12	6
14SP15T											
14SP22S	6	2,2	3	43	37	35	32	28	24	18	9
14SP22T											
14SP30T	9	3	4	65	55	52	48	42	36	28	14
14SP40T	12	4	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	16,1
14SP15T				729		14,6
14SP22S	6		396	941	4	21,7
14SP22T				866		18,1
14SP30T	9		522	1042	5,4	21,9
14SP40T	12		648	1242	6,7	28,1
14SP55T	17		858	1562	9,2	36,9
14SP75T	23		1110	1899	12	44,6



## ACQUAJET SERIES 4" SUBMERSIBLE ELECTRIC PUMPS

- Advanced hydraulic model, compact structure
- Easy to move and install

### APPLICATIONS

- Water supply from deep well.
- Pressure boosting.

### SPECIFICATIONS

- Delivery: up to 8 m<sup>3</sup>/h at 2850 rpm.
- Head: up to 97 m at 2850 rpm.
- Maximum pump overall diameter (cable cover included): 99mm.
- Maximum permissible quantity of sand: 150 g/m<sup>3</sup>.
- Delivery port Rp1"1/4.

### MOTOR POWER

Single-phase version:

from 0,37 to 1,1 kW, 220 V, 50 Hz.

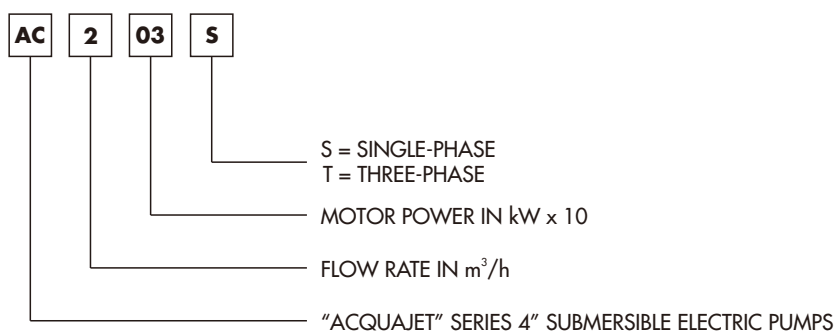
Three-phase version:

from 0,37 to 1,1 kW, 380 V, 50 Hz.

### CONSTRUCTION & CHARACTERISTICS

- 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.
- Pump and motor connected inside complete pump sleeve, compact and aesthetic.
- Discharge made of engineering plastic pump sleeve and filter made of AISI304, 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, carries away most heat generated by motor, which cools down motor, saves cost and prolongs motor life.

### IDENTIFICATION CODE



### EXAMPLE OF PUMP TYPE

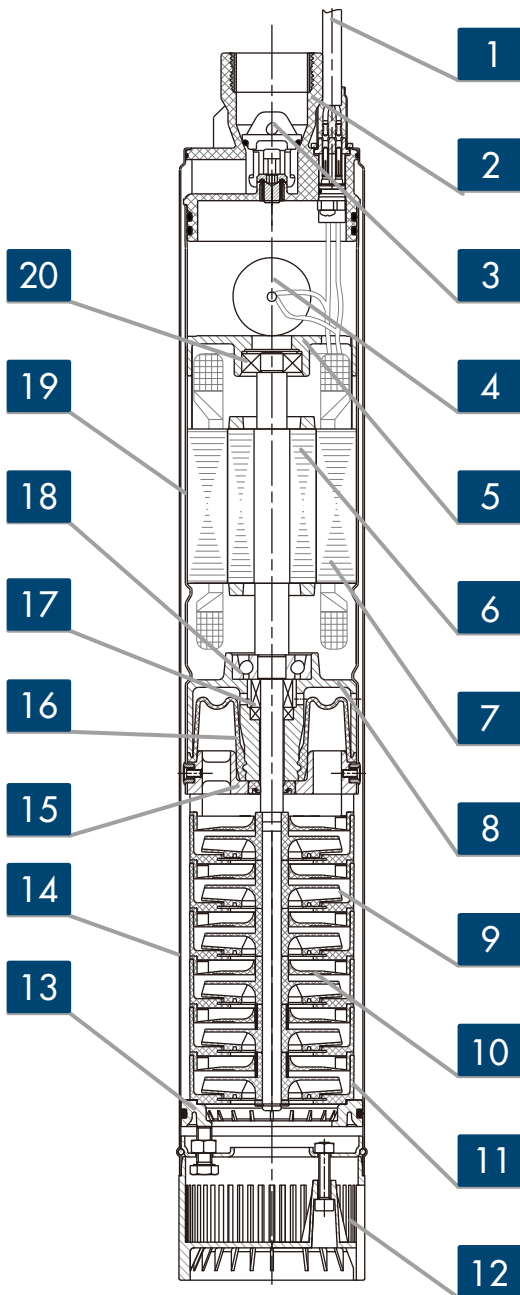
AC203S

ACQUAJET series 4" submersible electric pump with flow rate 2m<sup>3</sup>/h, single phase 0,37 kW(0,5 Hp) motor.



## ACQUAJET SERIES

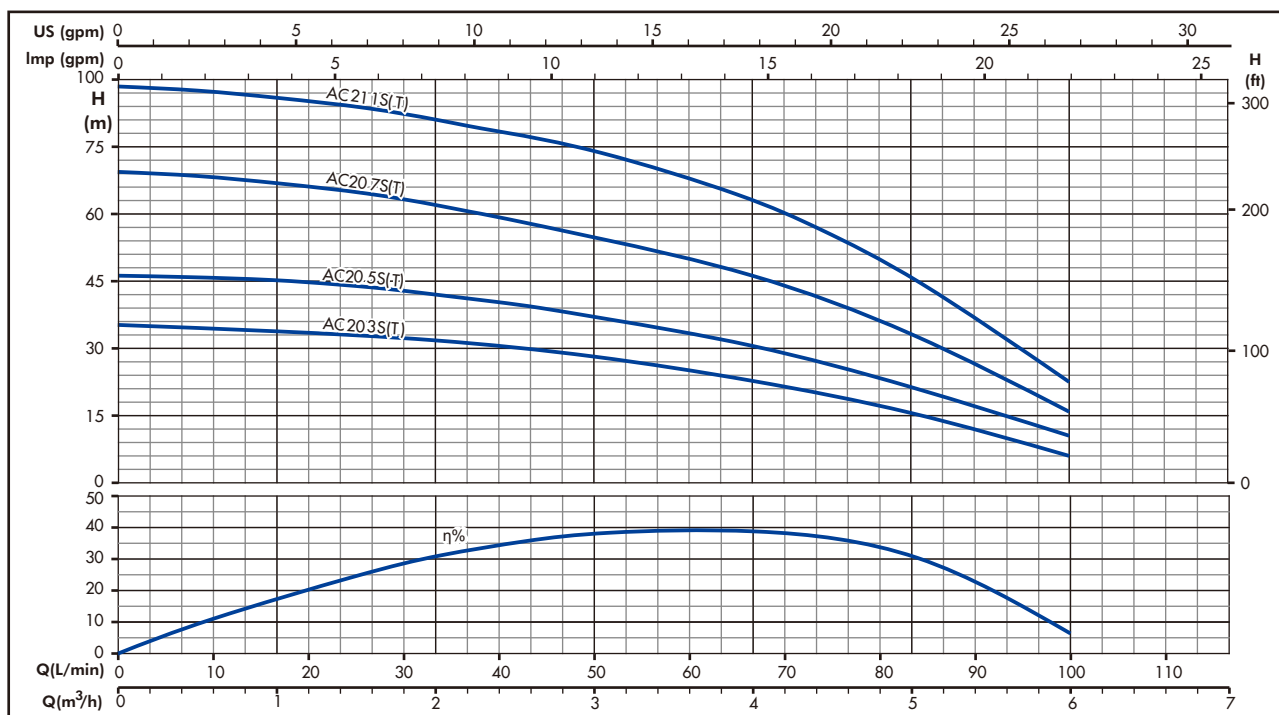
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Cable	-----	-----
2	Discharge port	Noryl® PPO	-----
3	Non-return valve	ABS	-----
4	Capacitor(only single-phase)	-----	-----
5	Upper support	Cast iron	ASTM 200A
6	Rotor	-----	-----
7	Stator	-----	-----
8	Lower support	Cast iron	ASTM 200A
9	Impeller	ABS	-----
10	Diffuser	ABS	-----
11	Stage housing	ABS	-----
12	Filter	Noryl® PPO	-----
13	Locating plate	Noryl® PPO	-----
14	Pump sleeve	Stainless steel	AISI 304
15	Gland	Cast iron	ASTM 200A
16	Compensation bellow	NBR	-----
17	Mechanical seal	Carbon/Ceramic	-----
18	Bearing	-----	-----
19	Motor sleeve	Stainless steel	AISI 304
20	Bearing	-----	-----

## ACQUAJET SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

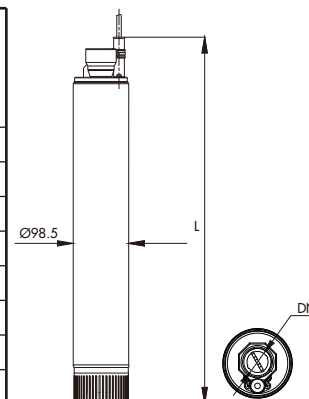


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	kW	Hp	Q=DELIVERY						
			l/min 0	17	33	50	67	83	100
			m <sup>3</sup> /h 0	1	2	3	4	5	6
			<b>H=TOTAL HEAD METERS COLUMN OF WATER</b>						
AC203S	0,37	0,5	35	34	32	28,5	23	16	6
AC203T									
AC205S	0,55	0,75	46	45	42	37	30,5	22	10,5
AC205T									
AC207S	0,75	1	69	67	62	55,5	46	33	16
AC207T									
AC211S	1,1	1,5	97	92	85	72	63	47	22
AC211T									

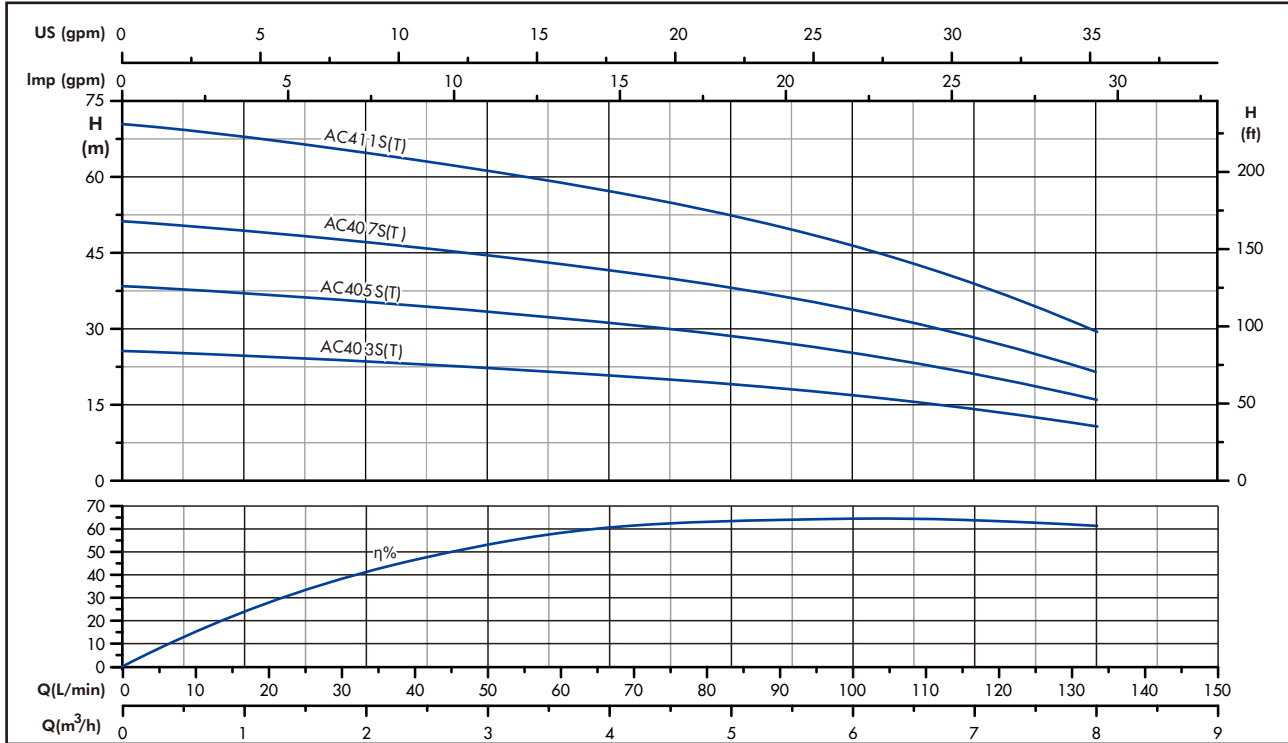
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L mm	PUMP WEIGHT kg
AC203S	5	Rp1"1/4	623,5	10,5
AC203T			561,5	8
AC205S	7		680,5	11,5
AC205T			630,5	9
AC207S	10		774	13
AC207T			717	10,5
AC211S	14		936	16
AC211T			851	10



## ACQUAJET SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

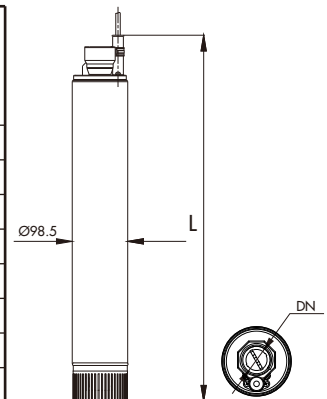


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	kW	Hp	Q=DELIVERY						
			l/min 0	33	50	67	83	100	133
			m <sup>3</sup> /h 0	2	3	4	5	6	8
H=TOTAL HEAD METERS COLUMN OF WATER									
AC403S	0,37	0,5	25,5	23,5	22,5	20	19	17	11
AC403T									
AC405S	0,55	0,75	38,5	35	33,5	30	28,5	25,5	16
AC405T									
AC407S	0,75	1	51	47	44,5	40	38	34	21
AC407T									
AC411S	1,1	1,5	70,5	65	61,5	55	52	46,5	29
AC411T									

### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L mm	PUMP WEIGHT kg
AC403S	4	Rp1"1/4	641	10,5
AC403T			576	8
AC405S	6		717	12
AC405T			662	9,5
AC407S	8		813	13,5
AC407T			743	11
AC411S	11		972	16,5
AC411T			872	10,5



## 5OS SERIES 5" 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

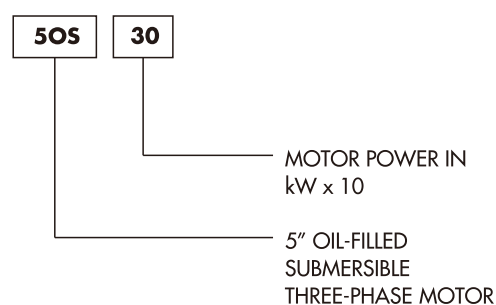
- Shaft extension and couplings meet NEMA standards.
- Rewindable stator.
- Winding insulation: Class F .
- Protection grade: IP68.
- Filling fluid in compliance with standards concerning oils contact with foodstuffs and with the purity requirements specified by the annex to G.U. no. 104 of 20/04/1973; 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  $\pm$  10 %.

### MODELS

- Three-phase:  
from 2.2 kW to 15 kW, 380 V, 50 Hz.



### IDENTIFICATION CODE

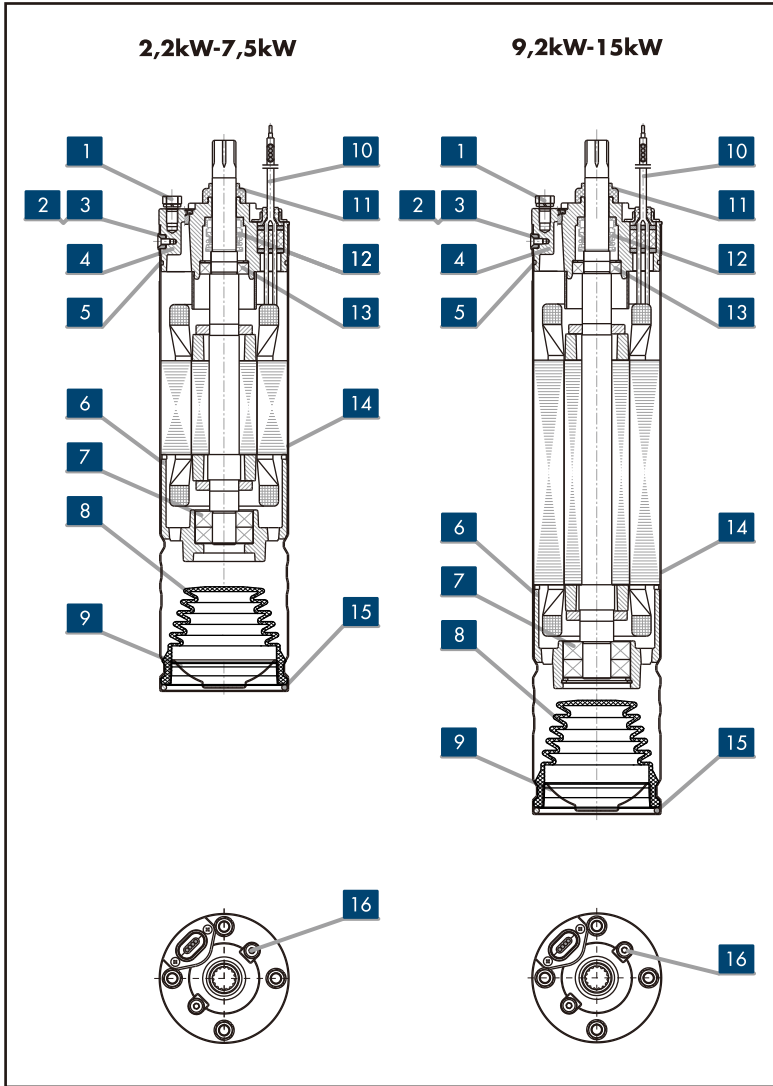


### EXAMPLE OF MOTOR TYPE

5OS30

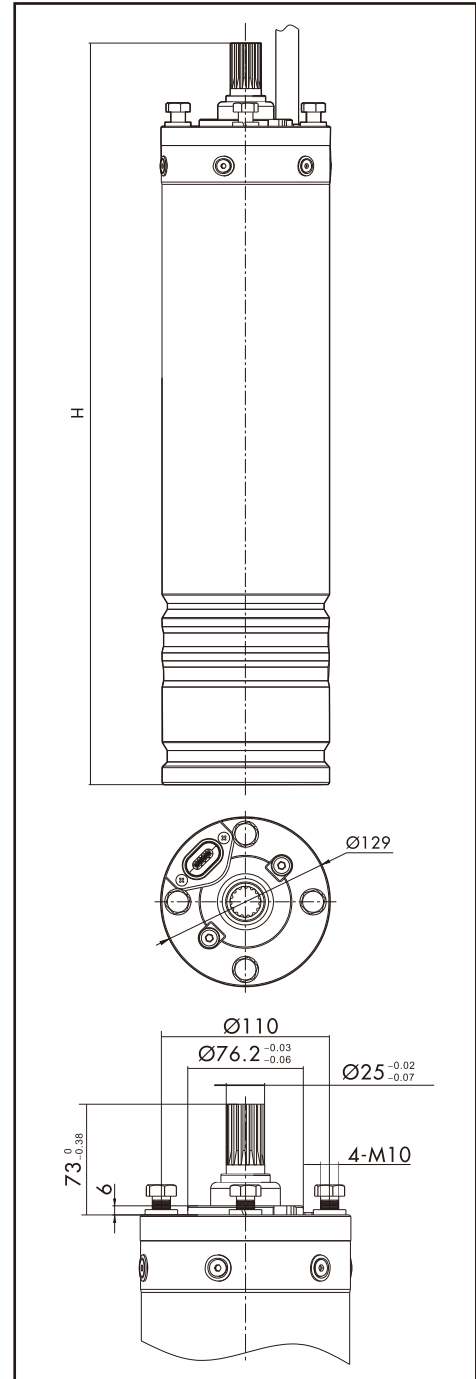
5" oil-filled submersible motor, three-phase, 3 kW (4 Hp).

## 50S 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 200A
5	O-ring	NBR	-----
6	Lower support	Cast iron	ASTM 200A
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	Snap ring	Stainless steel	AISI 304
16	Filling screw	Stainless steel	AISI 304

## DIMENSIONS AND WEIGHTS AT 50 Hz



MOTOR TYPE	POWER		H mm	WEIGHT kg
	kW	Hp		
50S22	2,2	3	610,5	22,5
50S30	3	4	640,5	25
50S40	4	5,5	675,5	27,5
50S55	5,5	7,5	735,5	32,5
50S75	7,5	10	780,5	36
50S92	9,2	12,5	825	40
50S110	11	15	900	44,5
50S130	13	17,5	925	49
50S150	15	20	945	53

## 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  $\pm$  10 %.

### MODELS

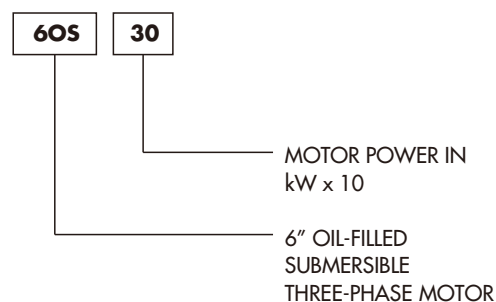
- Three-phase:  
from 3 to 15 kW, 380 V, 50 Hz.

### OPTIONAL FEATURES

- Different voltage and frequency.
- Different materials.



### IDENTIFICATION CODE

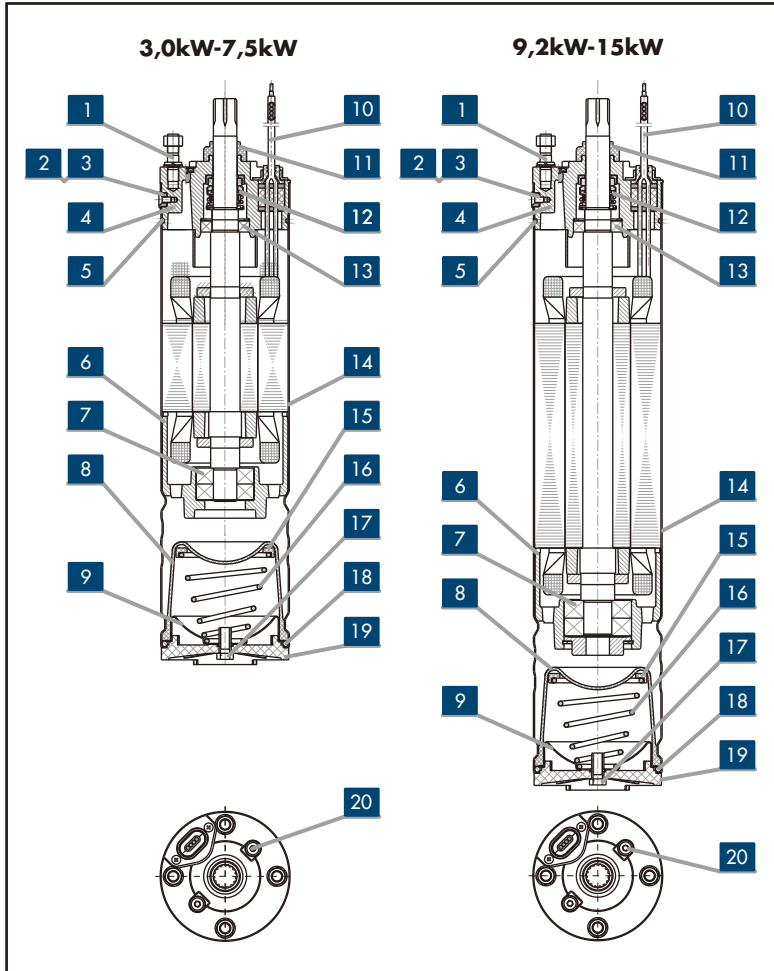


### EXAMPLE OF MOTOR TYPE

6OS30

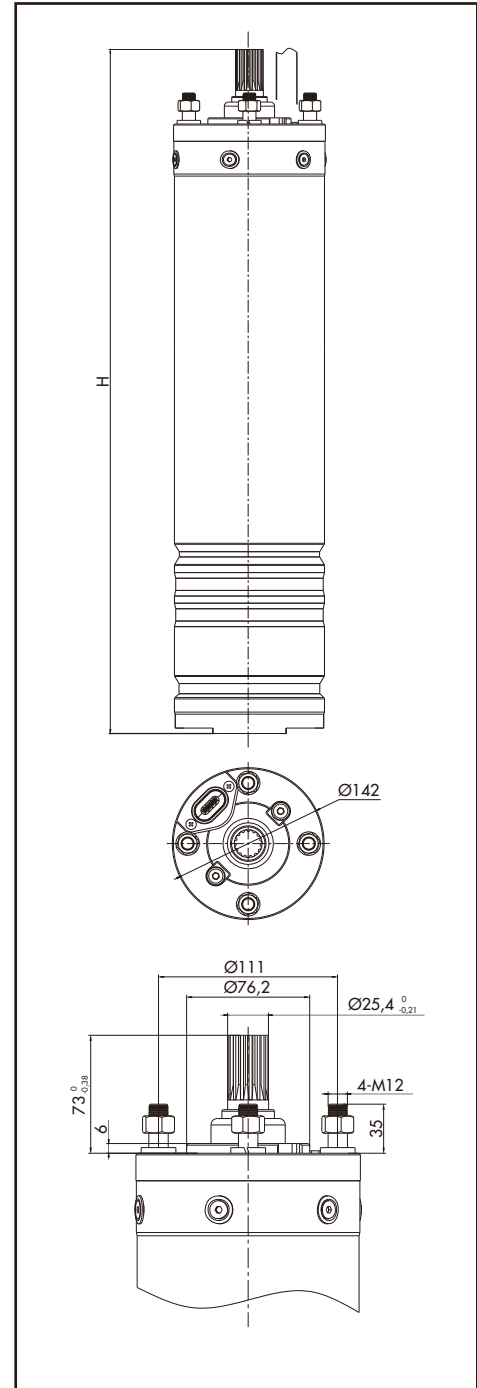
6" oil-filled submersible motor, three-phase, 3 kW (4 Hp).

## 60S 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 200A
5	O-ring	NBR	-----
6	Lower support	Cast iron	ASTM 200A
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	-----
16	Spring	Stainless steel	-----
17	Bolt	Stainless steel	AISI 304
18	Snap ring	Stainless steel	AISI 304
19	Protection support	ABS	-----
20	Filling screw	Stainless steel	AISI 304

## DIMENSIONS AND WEIGHTS AT 50 Hz



MOTOR TYPE	POWER		H mm	WEIGHT kg
	kW	Hp		
60S30	3	4	605,5	27
60S40	4	5,5	625,5	29
60S55	5,5	7,5	655,5	32
60S75	7,5	10	695,5	36
60S92	9,2	12,5	738,5	41
60S110	11	15	768,5	44
60S130	13	17,5	798,5	46,5
60S150	15	20	848,5	51,5

## OMSY6 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.
- Standard compensation bellows for internal liquid expansion for regular operation.
- Oversized thrust bearings: Shaft supported by oversized thrust bearings which can support thrust load up to 15500 N.
- Filling fluid: water mixed with non-toxic anti-freeze glycol, provides cooling and lubrication, also protects and prevents parts inside from corrosion.
- Maximum immersion depth: 200 m .
- Maximum number of starts per hour at regular intervals: 10.
- Maximum allowable voltage fluctuations over the rated voltage:  $\pm 7\%$ .

### VERSION

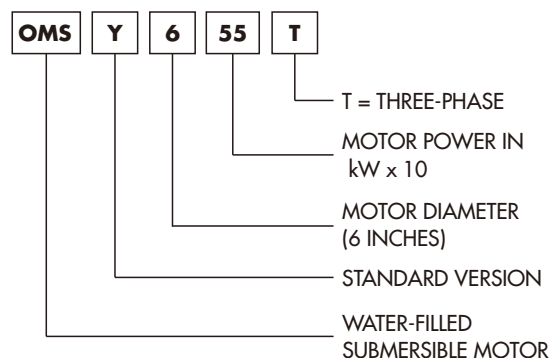
- Three-phase from 3 to 45 kW, 380 V/50 Hz.

### OPTIONAL FEATURES

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



### IDENTIFICATION CODE

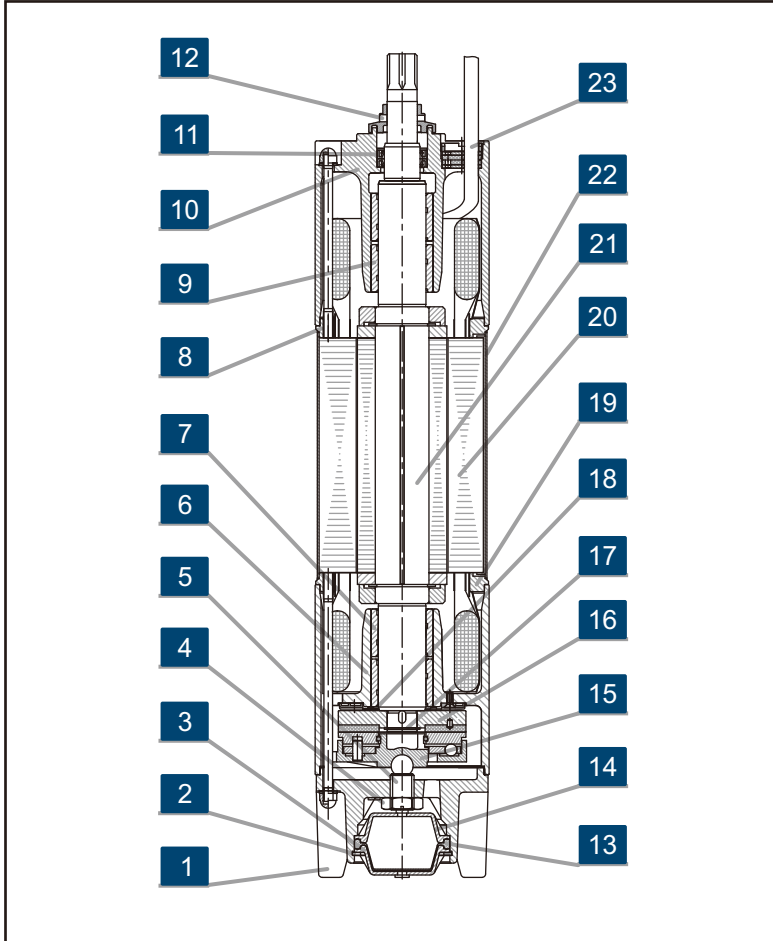


### EXAMPLE OF MOTOR TYPE

OMSY655T

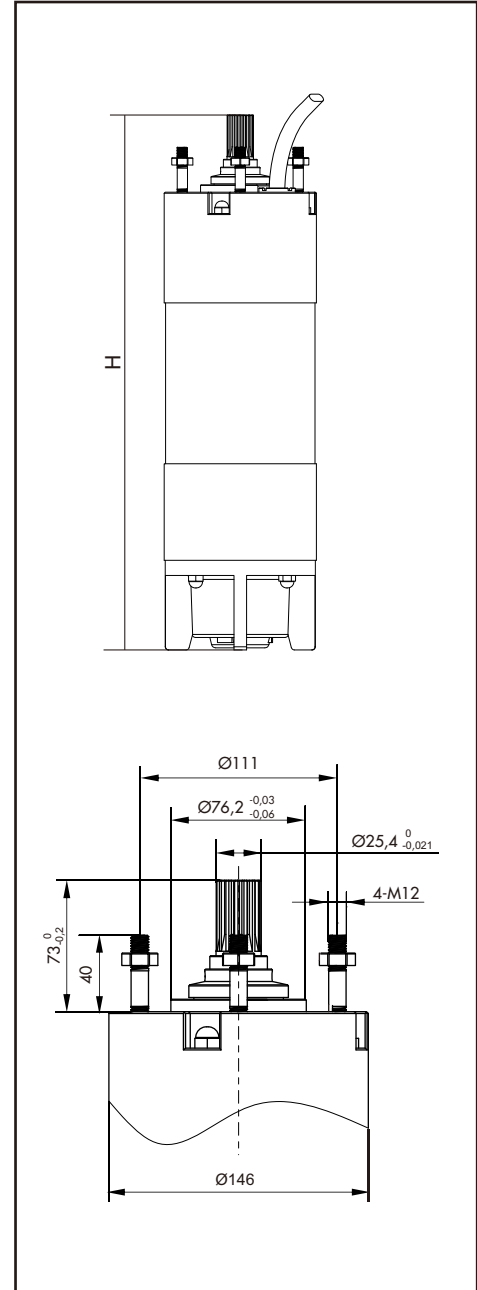
6" water-filled submersible motor, standard version, three-phase, 5,5kW (7.5HP).

## OMSY6 SERIES MOTOR CROSS SECTION AND TABLE OF MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Base	Cast iron	ASTM 35A
2	Snap ring	Steel	---
3	Cover	Cast iron	ASTM 20A
4	Nut	Steel	---
5	Screw	Steel	---
6	Lower support	Cast iron	ASTM 30A
7	Bush bearing	Graphite	---
8	Upper flange	Stainless steel	AISI 304
9	Bush bearing	Graphite	---
10	Upper support	Cast iron	ASTM 30A
11	Lip seal	---	---
12	Sand protection	Stainless steel	---
13	Compensation bellow	NBR	---
14	Cover	---	---
15	Thrust bearing	---	---
16	Thrust disk	---	---
17	Ring	Steel	---
18	Plate	---	---
19	Lower flange	Stainless steel	AISI 304
20	Stator	---	---
21	Rotor	---	---
22	Motor casing	Stainless steel	---
23	Cable	---	---

## DIMENSIONS AND WEIGHTS AT 50 Hz



MOTOR TYPE	RATED POWER		H mm	WEIGHT kg
	kW	Hp		
OMSY630T	3	4	654	39
OMSY640T	4	5,5	684	43
OMSY655T	5,5	7,5	684	43
OMSY675T	7,5	10	704	45
OMSY692T	9,2	12,5	754	50
OMSY6110T	11	15	764	53
OMSY6130T	13	17,5	794	56
OMSY6150T	15	20	874	65
OMSY6185T	18,5	25	934	73
OMSY6220T	22	30	1019	83
OMSY6250T	25	35	1084	90
OMSY6300T	30	40	1169	100
OMSY6370T	37	50	1334	118
OMSY6450T	45	60	1394	125

## OMSJ6 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.
- Bigger compensation bellows for internal liquid expansion for severe operation condition.
- Oversized thrust bearings: Shaft supported by oversized thrust bearings which can support thrust load up to 15500 N.
- Mechanical seal: reliable, long service, more resistant to sand.
- Filling fluid: water mixed with non-toxic anti-freeze glycol, provides cooling and lubrication, also protects and prevents parts inside from corrosion.
- Maximum immersion depth: 200 m .
- Maximum number of starts per hour at regular intervals: 10.
- Maximum allowable voltage fluctuations over the rated voltage:  $\pm 7\%$ .

### VERSION

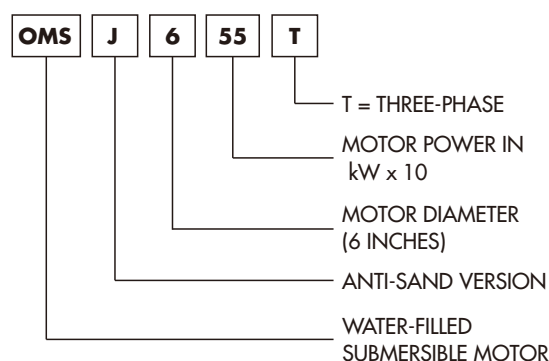
- Three-phase from 3 to 45 kW, 380 V/50 Hz.

### OPTIONAL FEATURES

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



### IDENTIFICATION CODE

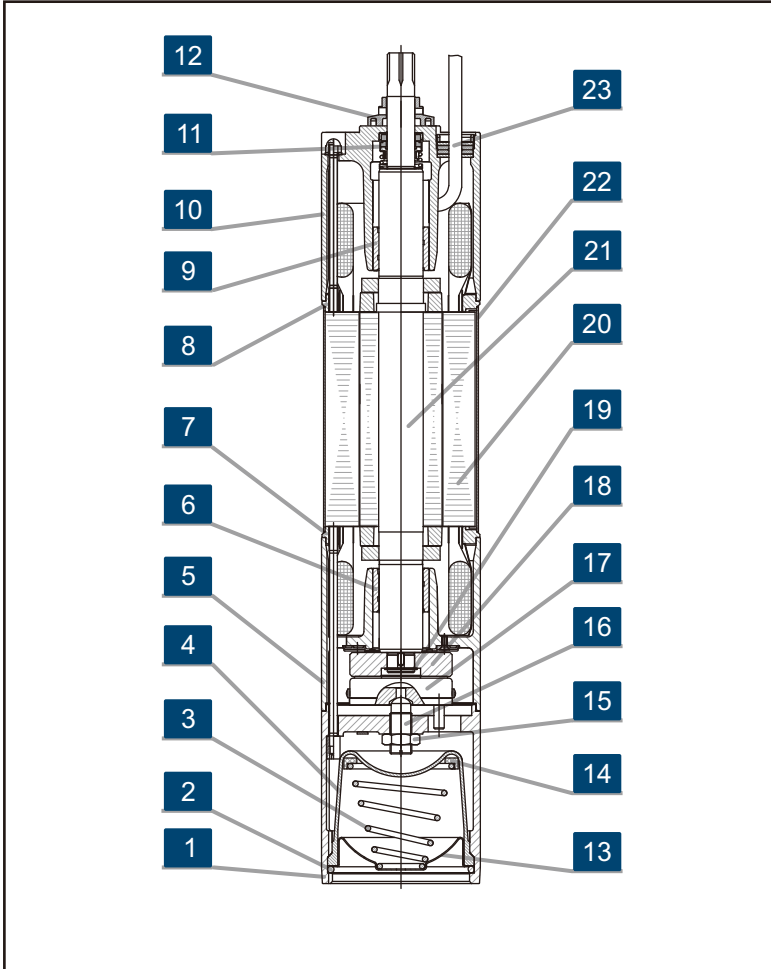


### EXAMPLE OF MOTOR TYPE

OMSJ655T

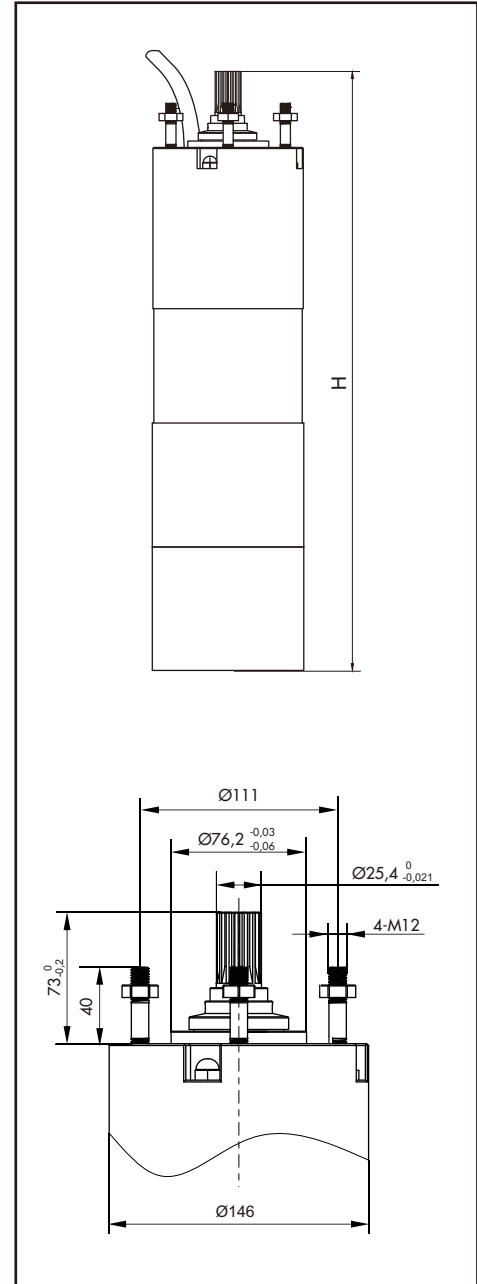
6" water-filled submersible motor, anti-sand version , three-phase, 5,5kW(7.5HP).

## OMSJ6 SERIES MOTOR CROSS SECTION AND TABLE OF MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Base	Cast iron	ASTM 35A
2	Snap ring	Stainless steel	AISI 304
3	Conical spring	Stainless steel	AISI 304
4	Compensation bellow	NBR	---
5	Lower support	Cast iron	ASTM 30A
6	Bush bearing	Graphite	---
7	Upper flange	Stainless steel	AISI 304
8	Upper flange	Stainless steel	AISI 304
9	Bush bearing	Graphite	---
10	Upper support	Cast iron	ASTM 30A
11	Mechanical seal	---	---
12	Sand protection	Stainless steel	---
13	Gland	Stainless steel	AISI 304
14	Tower spring seat	---	---
15	Nut	Steel	---
16	Ball Screw	Steel	---
17	Thrust bearing	---	---
18	Thrust disk	---	---
19	Ring	Stainless steel	AISI 304
20	Stator	---	---
21	Rotor	---	---
22	Motor casing	Stainless steel	---
23	Cable	---	---

## DIMENSIONS AND WEIGHTS AT 50 Hz



MOTOR TYPE	RATED POWER		H mm	WEIGHT kg
	kW	Hp		
OMSJ630T	3	4	726,4	41
OMSJ640T	4	5,5	756,4	45
OMSJ655T	5,5	7,5	756,4	45
OMSJ675T	7,5	10	776,4	47
OMSJ692T	9,2	12,5	826,4	52
OMSJ6110T	11	15	836,4	55
OMSJ6130T	13	17,5	866,4	58
OMSJ6150T	15	20	946,4	67
OMSJ6185T	18,5	25	1006,4	75
OMSJ6220T	22	30	1091,4	85
OMSJ6250T	25	35	1156,4	92
OMSJ6300T	30	40	1241,4	102
OMSJ6370T	37	50	1406,4	120
OMSJ6450T	45	60	1466,4	127

## TH SERIES 5" SUBMERSIBLE PUMPS

### APPLICATIONS

- Water supply from deep well.
- Agricultural irrigation.
- Pressure boosting.

### 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, 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.
- Simple maintenance, rapid installation and dismantling.
- Standard and special versions available .

### SPECIFICATIONS

- Delivery: up to 26m<sup>3</sup>/h;
- Head: up to 454m at 2850rpm;
- Maximum pump overall diameter(cable guard included): 133mm;
- Maximum immersion depth: 150m;
- Solid content of pumped liquid on volume: ≤0,01%;
- Pumped liquid temperature: 0 ~ 35°C ;
- Pumped liquid PH: 6,5-8,5;
- Chlorine content of pumped liquid: 400mg/L;
- Hydrogen sulfide content of pumped liquid: ≤1,5mg/L.

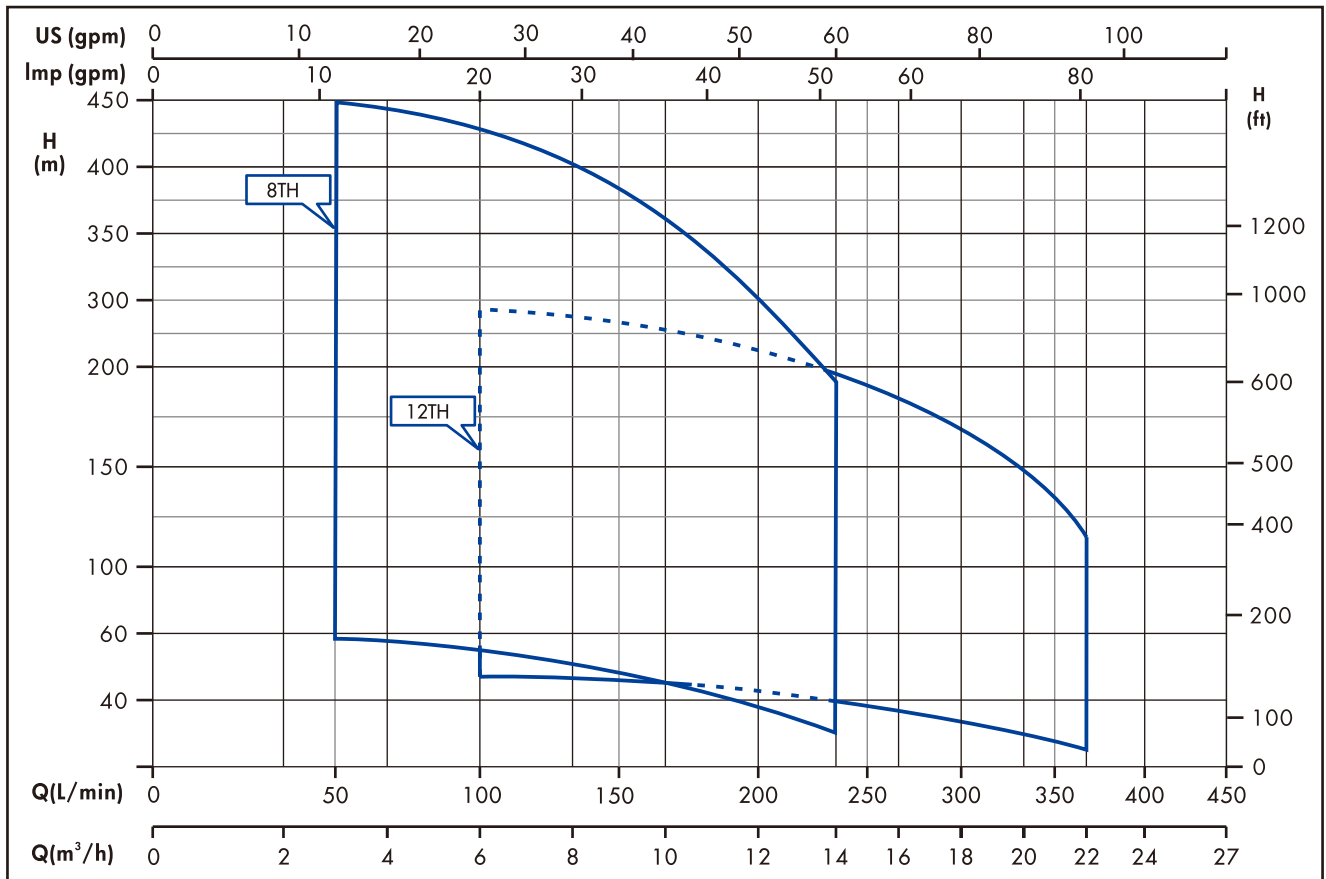
### OPTIONAL FEATURES

- Different voltage and frequency.
- Dual cable outlet for star/delta starting.
- Cast iron lower support and delivery port (2,2 kW to 15 kW)

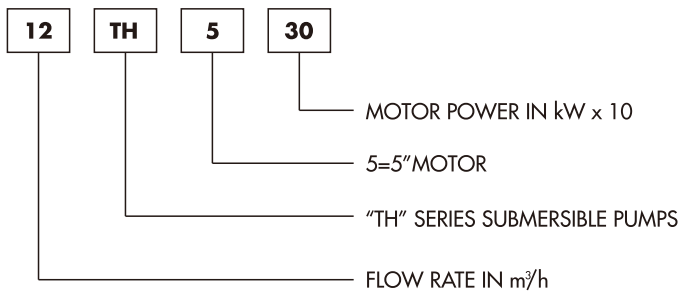


## TH SERIES

### HYDRAULIC PERFORMANCE RANGE AT 50 Hz



#### IDENTIFICATION CODE



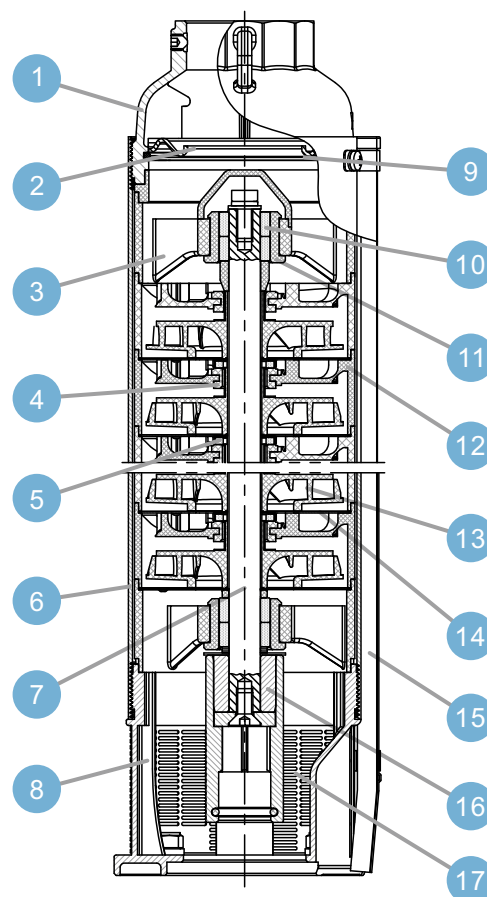
#### EXAMPLE OF PUMP TYPE

12TH530

TH series submersible pump with flow rate in 12 m³/h and 5" motor 3 kW (4 Hp).

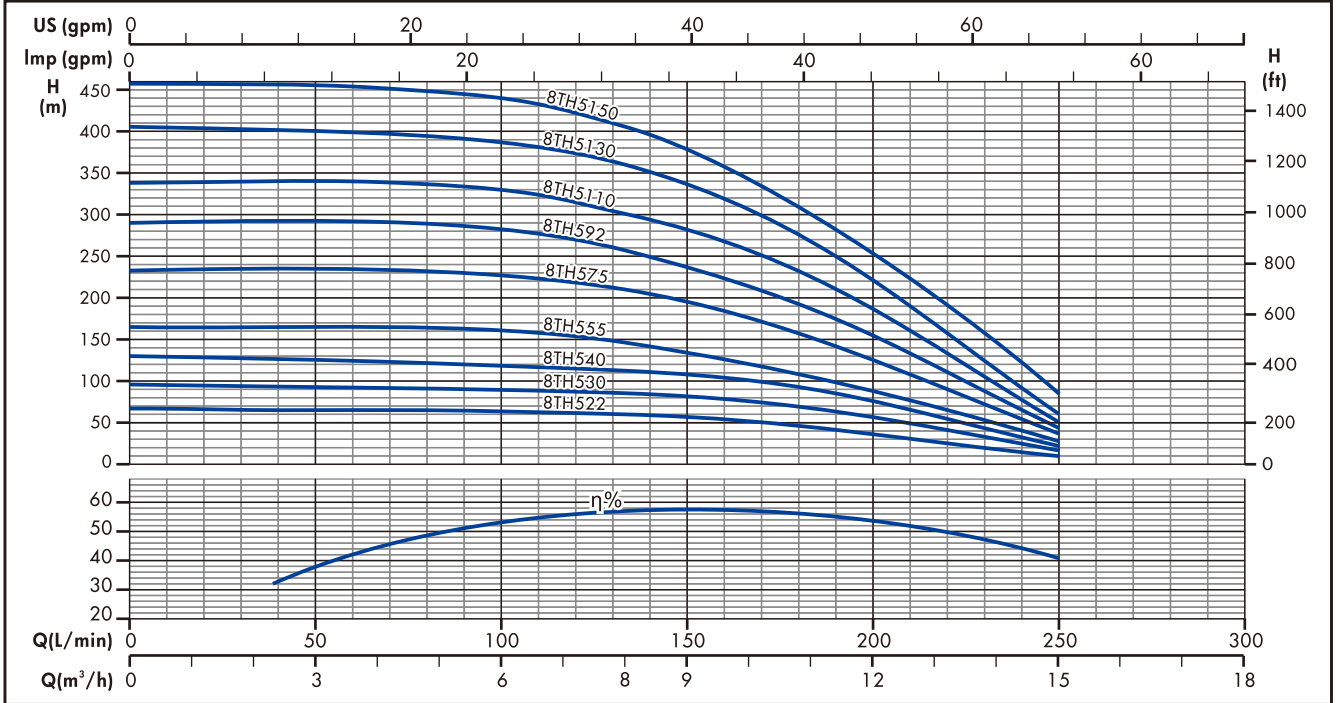
## TH SERIES

### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	<b>Delivery port</b>	Precision-cast stainless steel / cast iron	AISI 304 / ASTM 200A
2	<b>Non-return valve</b>	Stainless steel	AISI 201
3	<b>Upper support</b>	Noryl® PPO	-----
4	<b>Interstage bearing</b>	NBR	-----
5	<b>Thrust bearing</b>	-----	-----
6	<b>Outer sleeve</b>	Stainless steel	AISI 201
7	<b>Shaft</b>	Stainless steel	AISI 420
8	<b>Lower support</b>	Precision-cast stainless steel / cast iron	AISI 304 / ASTM 200A
9	<b>Valve support</b>	Stainless steel	AISI 201
10	<b>Shaft sleeve</b>	Stainless steel	AISI 304
11	<b>Bush bearing</b>	TPU	-----
12	<b>Diffuser</b>	Noryl® PPO	-----
13	<b>Impeller</b>	Noryl® PPO	-----
14	<b>Stage housing</b>	Stainless steel	AISI 201
15	<b>Cable guard</b>	Stainless steel	AISI 304
16	<b>Coupling</b>	Stainless steel	AISI 304
17	<b>Filter</b>	Stainless steel	AISI 304

## 8TH SERIES OPERATING CHARACTERISTICS AT 50 Hz

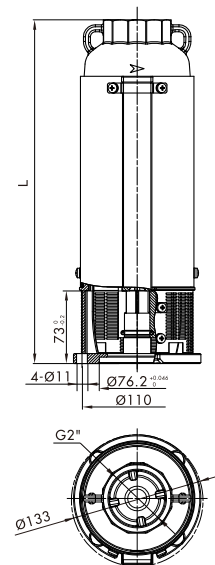


## OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY					
				l/min 0	67	100	133	167	233
				m³/h 0	4	6	8	10	14
H=TOTAL HEAD METERS COLUMN OF WATER									
8TH522	7	2,2	3	68	67	65	60	54	28
8TH530	10	3	4	97	96	93	86	77	40
8TH540	13	4	5,5	126	126	121	112	100	52
8TH555	17	5,5	7,5	165	164	158	148	128	67
8TH575	24	7,5	10	233	233	223	210	186	97
8TH592	30	9,2	12,5	292	290	279	258	233	121
8TH5110	35	11	15	340	339	326	300	271	142
8TH5130	42	13	17,5	409	406	391	360	326	170
8TH5150	47	15	20	454	452	435	404	366	190

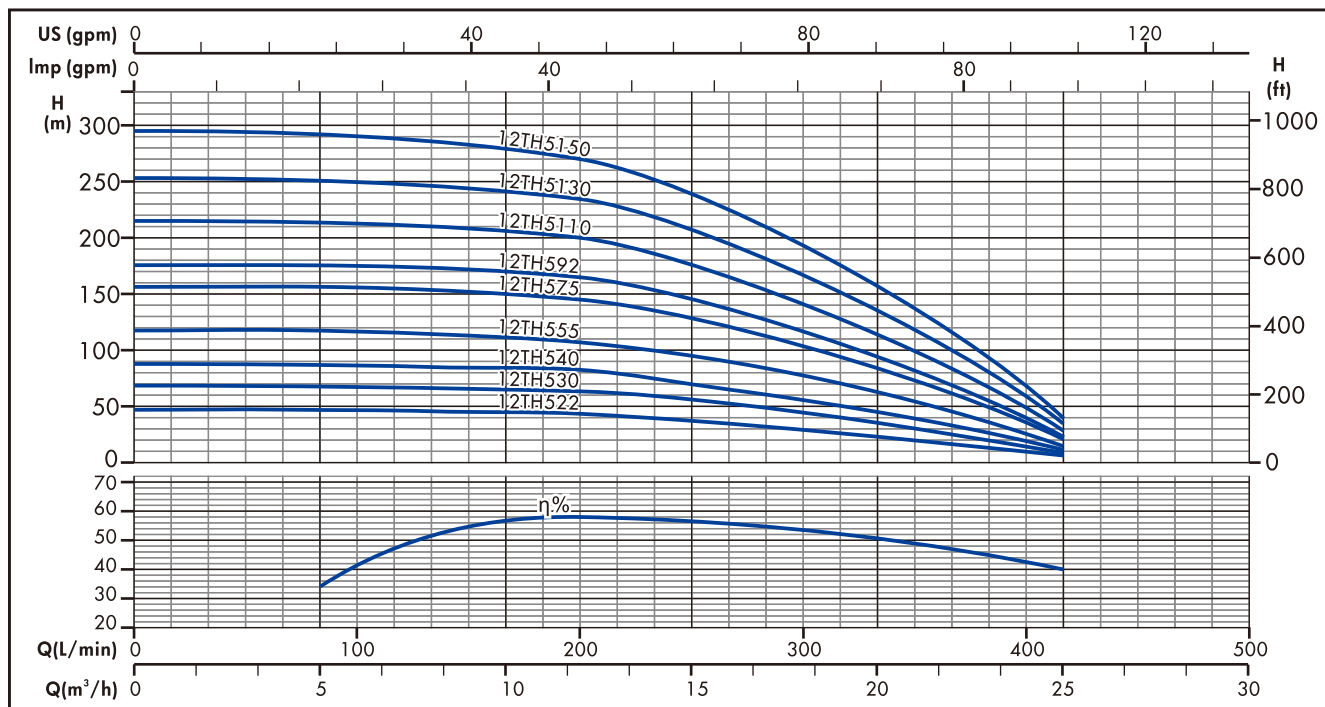
## DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L mm	PUMP WEIGHT kg
8TH522	7	GAS 2"	533	10
8TH530	10		646	11
8TH540	13		759	12
8TH555	17		910	13
8TH575	24		1173	15
8TH592	30		1455	19
8TH5110	35		1663	21
8TH5130	42		1889	23
8TH5150	47		2153	25



## 12TH SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

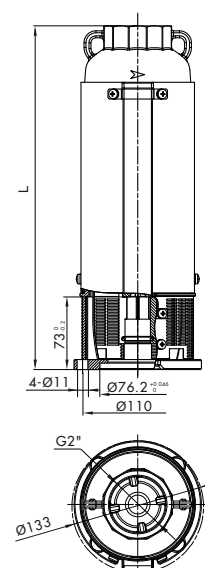


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY					
				l/min 0	67	133	200	267	367
				m³/h 0					
				4	8	12	16	22	
				H=TOTAL HEAD METERS COLUMN OF WATER					
12TH522	5	2,2	3	48	48	47	45	37	18
12TH530	7	3	4	68	68	66	63	52	26
12TH540	9	4	5,5	87	87	85	81	66	33
12TH555	12	5,5	7,5	117	117	113	108	89	45
12TH575	16	7,5	10	156	154	151	146	119	60
12TH592	18	9,2	12,5	175	175	171	164	133	67
12TH5110	22	11	15	216	215	208	200	162	81
12TH5130	26	13	17,5	254	253	246	234	193	97
12TH5150	30	15	20	293	292	284	270	225	114

### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L mm	PUMP WEIGHT kg
12TH522	5	GAS 2"	465	9
12TH530	7		543	9,5
12TH540	9		622	10
12TH555	12		739	11
12TH575	16		896	12
12TH592	18		974	13
12TH5110	22		1131	18
12TH5130	26		1357	19
12TH5150	30		1516	20



## B SERIES 6" SUBMERSIBLE PUMPS

### APPLICATIONS

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

### SPECIFICATIONS

- Delivery: up to 48 m<sup>3</sup>/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<sup>3</sup>.
- Delivery port GAS 3".
- 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, 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 special versions available .

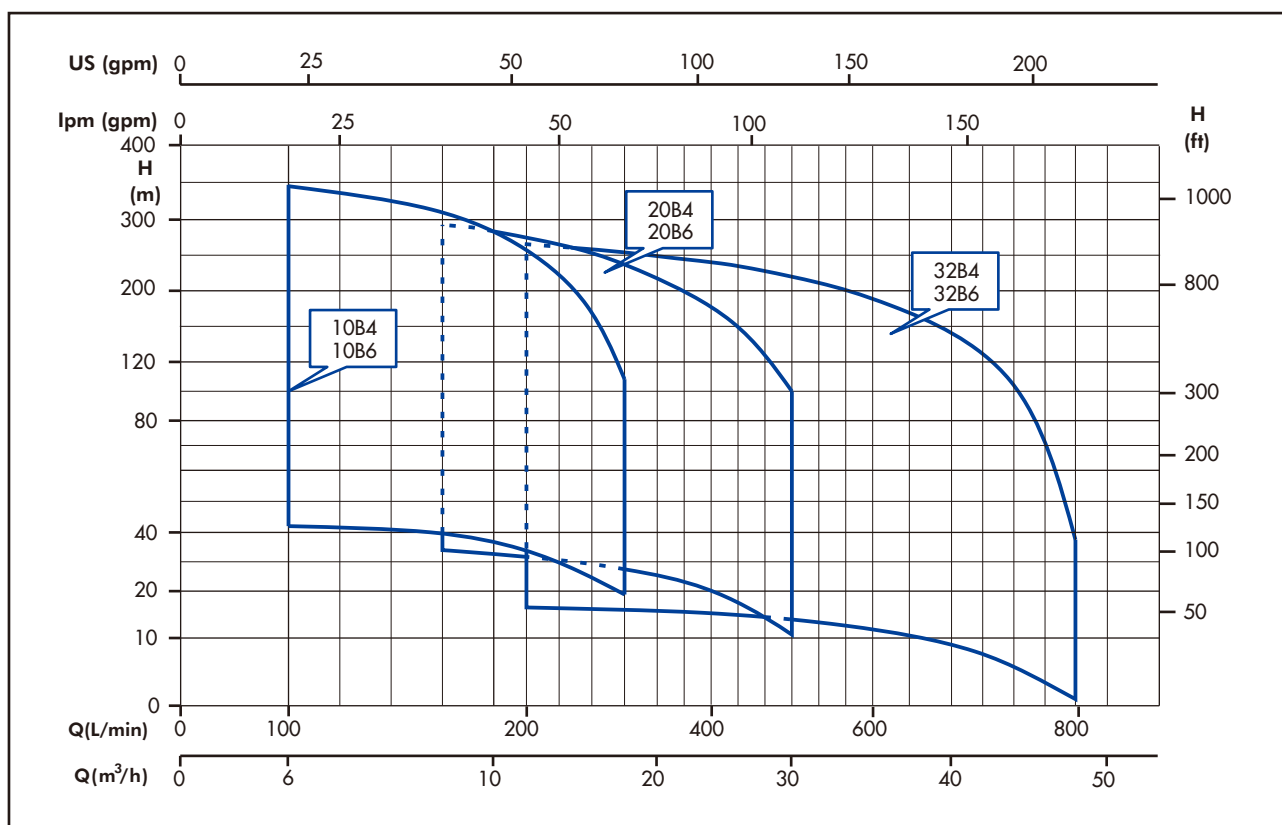
### OPTIONAL FEATURES

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

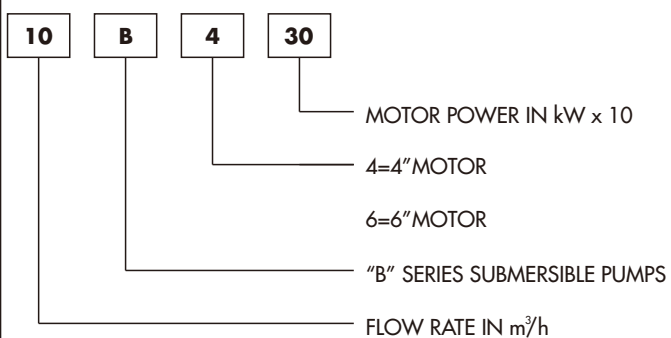


## B SERIES

### HYDRAULIC PERFORMANCE RANGE AT 50 Hz



#### IDENTIFICATION CODE

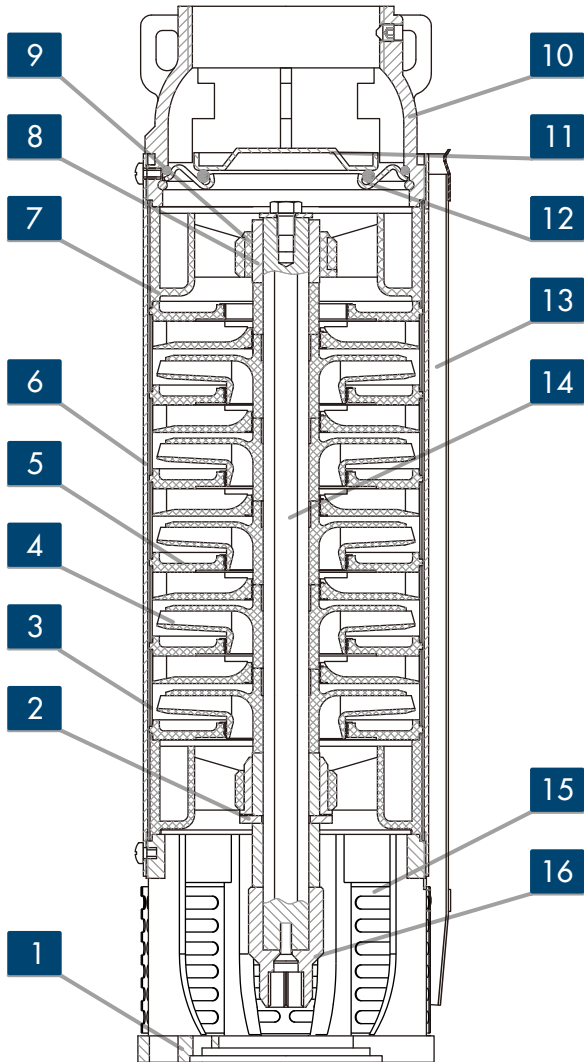


#### EXAMPLE OF PUMP TYPE

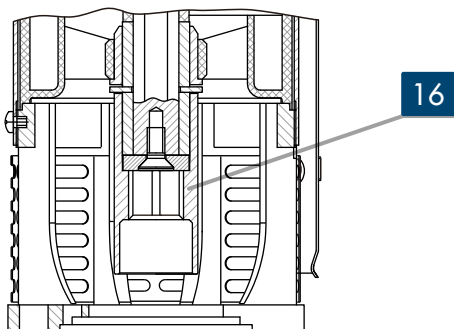
10B430  
 B series submersible pump with flow rate in 10 m³/h and 4" motor 3 kW (4 Hp).

## 10B-20B SERIES

### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



## 10B4-20B4 SERIES

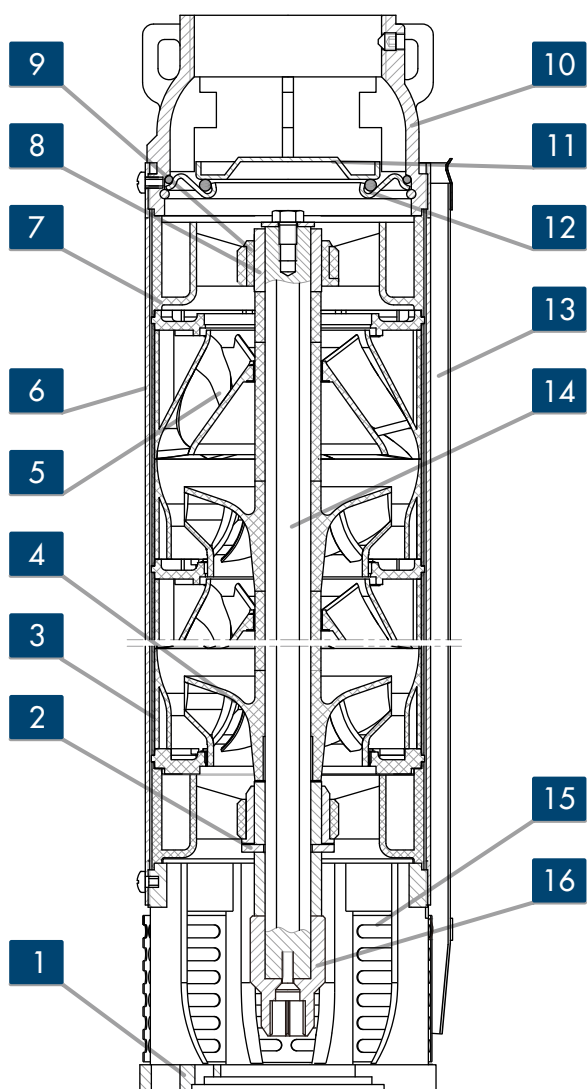


## 10B6-20B6 SERIES

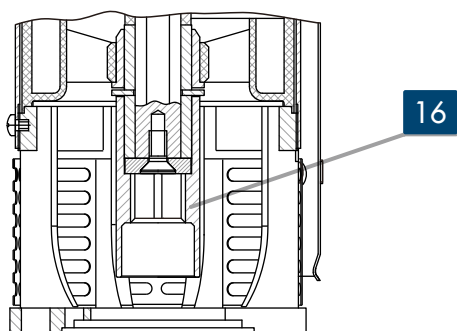
REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel / cast iron	AISI 304 / ASTM 200A
2	Thrust bearing	Stainless steel	AISI 304
3	Stage housing	Stainless steel	AISI 304
4	Impeller	Noryl® PPO	-----
5	Diffuser	Noryl® PPO	-----
6	Outer sleeve	Stainless steel	AISI 304
7	Upper support	Noryl® PPO	-----
8	Shaft sleeve	Stainless steel	AISI 304
9	Bush bearing	TPU	-----
10	Delivery port	Precision-cast stainless steel / cast iron	AISI 304 / ASTM 200A
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**

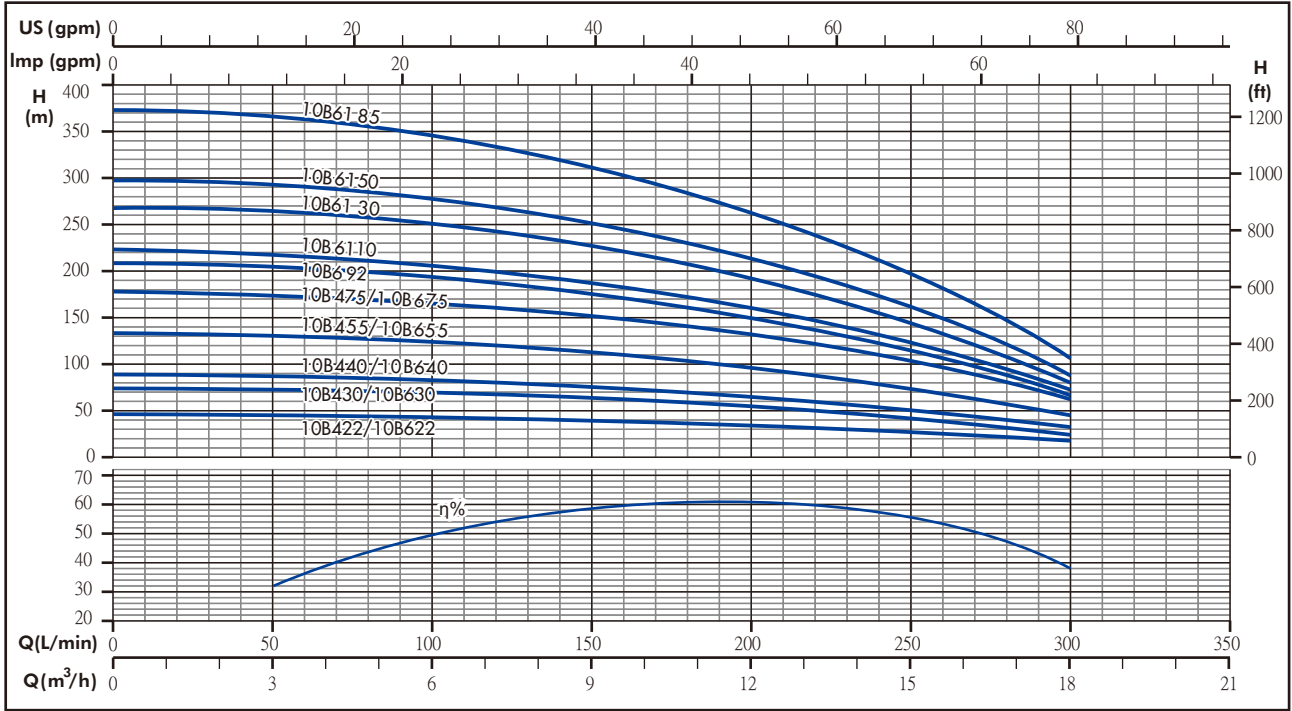


**32B6 SERIES**

REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Precision-cast stainless steel / cast iron	AISI 304 / ASTM 200A
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 / cast iron	AISI 304 / ASTM 200A
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

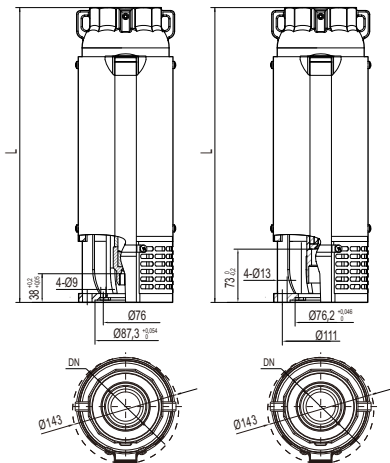


### OPERATING CHARACTERISTICS AT 50 Hz

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	46	42	40	34	27	19
10B622									
10B430	5	3	4	74	70	64	54	42	26
10B630									
10B440	6	4	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	GAS 3"	409,5	8,5
10B622				9
10B430	5		488,5	9,5
10B630				10
10B440	6		528	10
10B640				10,5
10B455	9		646,5	12
10B655				12,5
10B475	12		765,5	14
10B675				14,5
10B692	14	844,5	16	
10B6110	15	884,5	16,5	
10B6130	18	1003	18,5	
10B6150	20	1082,5	19,5	
10B6185	25	1332,5	23,5	

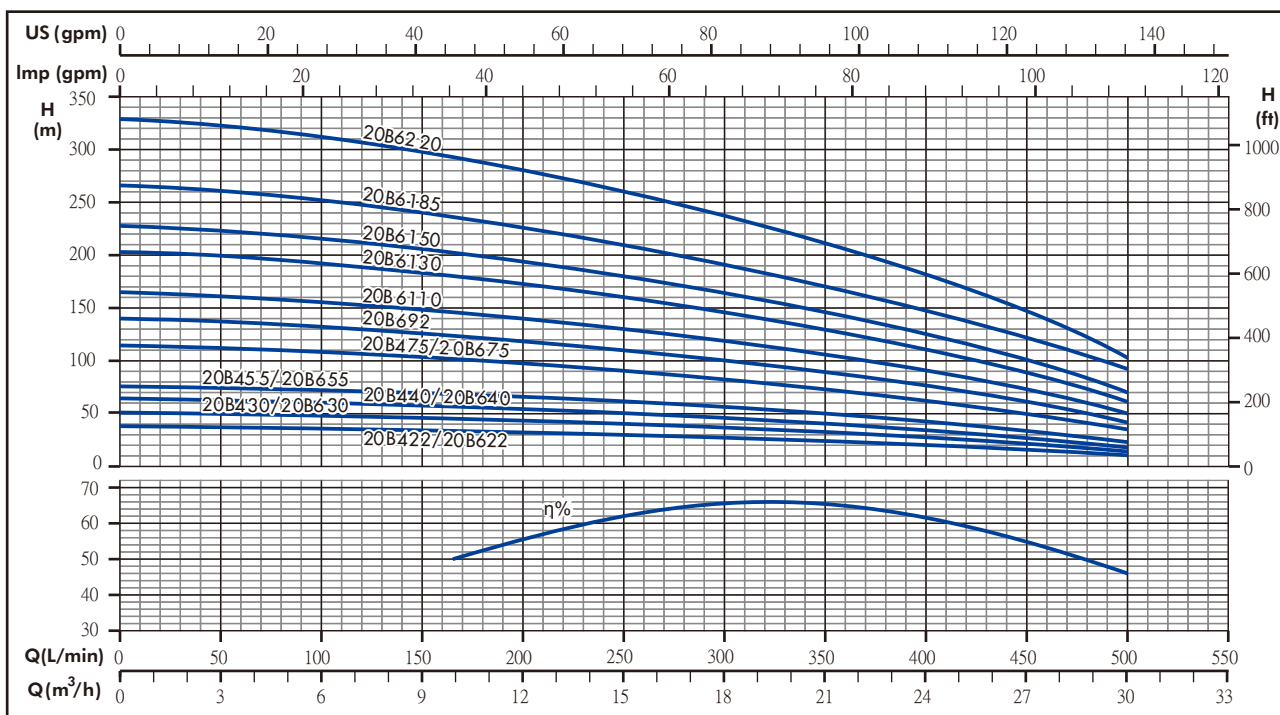


10B4 SERIES

10B6 SERIES

## 20B SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

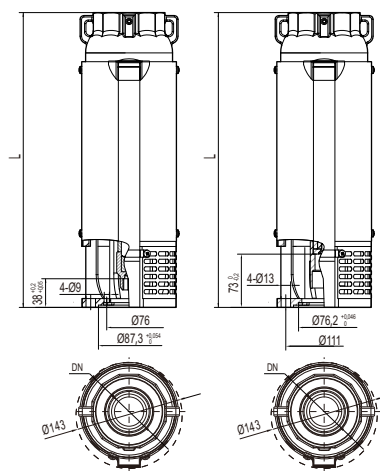


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY					
				l/min 0	150	250	350	400	500
				m <sup>3</sup> /h 0					
				H=TOTAL HEAD METERS COLUMN OF WATER					
20B422	3	2,2	3	38	34	30	24	20	11
20B622									
20B430	4	3	4	51	46	40	32	27	14,5
20B630									
20B440	5	4	5,5	64	57	50	40	34	18
20B640									
20B455	6	5,5	7,5	76	68	61	49	42	23
20B655									
20B475	9	7,5	10	114	103	90	73	63	35
20B675									
20B492	11	9,2	12,5	139	126	110	89	77	42
20B6110	13	11	15	165	149	130	105	91	50
20B6130	16	13	17,5	204	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	GAS 3"	445,5	8
20B622			8,5	
20B430	4		495,5	9
20B630			9,5	
20B440	5		545,5	9,5
20B640			10	
20B455	6		595,5	10,5
20B655			11	
20B475	9		746	12,5
20B675			13	
20B492	11		846	15
20B6110	13		946	16,5
20B6130	16	1096	18,5	
20B6150	18	1196,5	20	
20B6185	21	1403	23,5	
20B6220	26	1653,5	27,5	

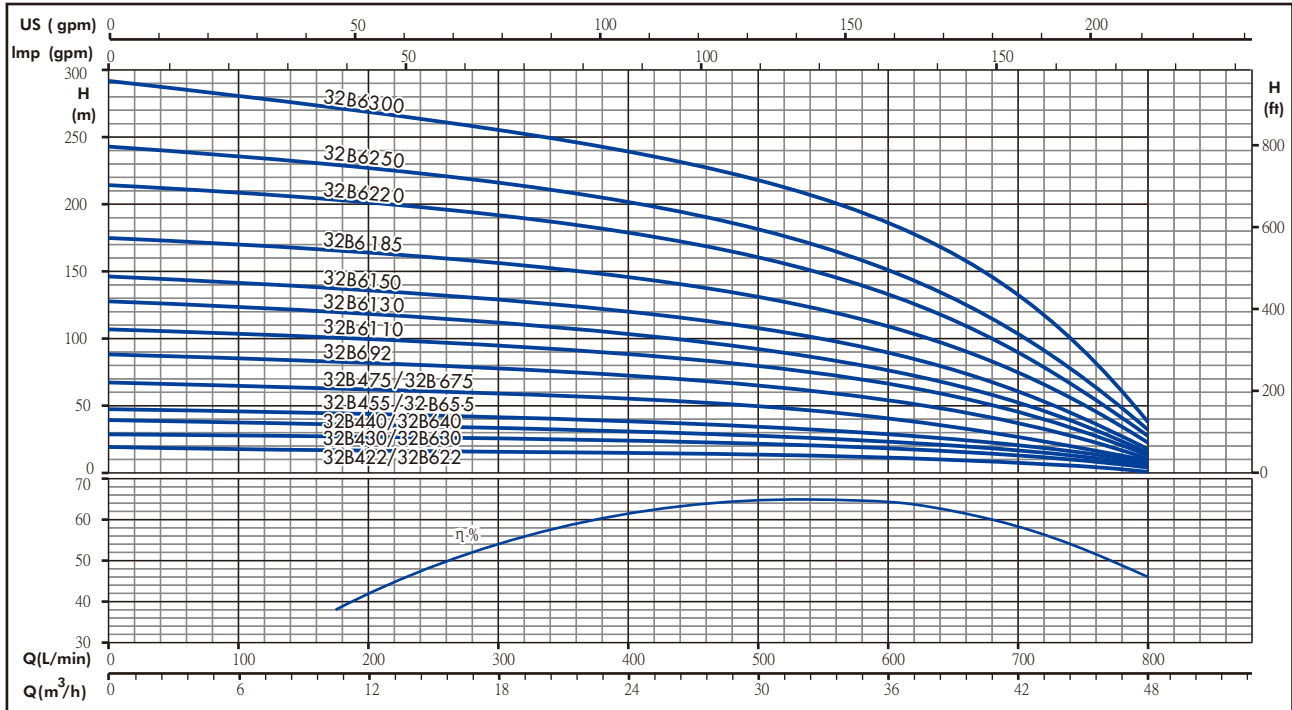


20B4 SERIES

20B6 SERIES

### 32B SERIES

#### OPERATING CHARACTERISTICS AT 50 Hz

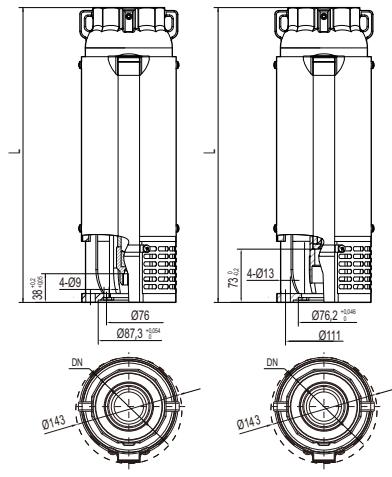


#### OPERATING CHARACTERISTICS AT 50 Hz

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	2	2,2	3	19	17	16,5	15	14	11	8	2,5
32B622											
32B430	3	3	4	29	26	25	23	21	17	12	4
32B630											
32B440	4	4	5,5	39	35	33	31	28	23	16	5
32B640											
32B455	5	5,5	7,5	48	43	42	38	35	28	20	7
32B655											
32B475	7	7,5	10	68	61	58	54	49	40	28	9
32B675											
32B692	9	9,2	12,5	84	82	78	73	63	55	37	11
32B6110	11	11	15	107	100	95	89	77	67	45	14
32B6130	13	13	17,5	125	118	112	104	91	78	52	16
32B6150	15	15	20	146	136	129	120	105	90	60	19
32B6185	18	18,5	25	175	165	156	146	126	110	75	23
32B6220	22	22	30	214	201	192	179	154	133	90	28
32B6250	25	25	34	243	230	215	201	175	151	103	32
32B6300	30	30	40	292	270	255	240	210	187	133	38

#### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGES	DN	L mm	PUMP WEIGHT kg
32B422	2	GAS 3"	521	9
32B622				9,5
32B430	3		634	11
32B630				11,5
32B440	4		747	12,5
32B640				13
32B455	5		860,5	14,5
32B655				15
32B475	7		1086,5	17,5
32B675				18
32B692	9		1312,5	22
32B6110	11		1595,5	26
32B6130	13		1821,5	30
32B6150	15		2047,5	33
32B6185	18	2443,5	39,5	
32B6220	22	2895,5	46,5	
32B6250	25	3234,5	52	
32B6300	30	3856,5	60,5	



32B4 SERIES

32B6 SERIES

## BP SERIES 6" SUBMERSIBLE PUMPS

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

### APPLICATIONS

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

### SPECIFICATIONS

- Delivery: up to 78 m<sup>3</sup>/h at 2850 rpm.
- Head: up to 573 m at 2850 rpm.
- Maximum overall diameter of pump: 143 mm (one cable guard included).
- Maximum permissible quantity of suspended sand: 150 g/m<sup>3</sup>.
- Standard delivery port: Rp 3".

### MOTOR

- Three-phase:  
from 3 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.

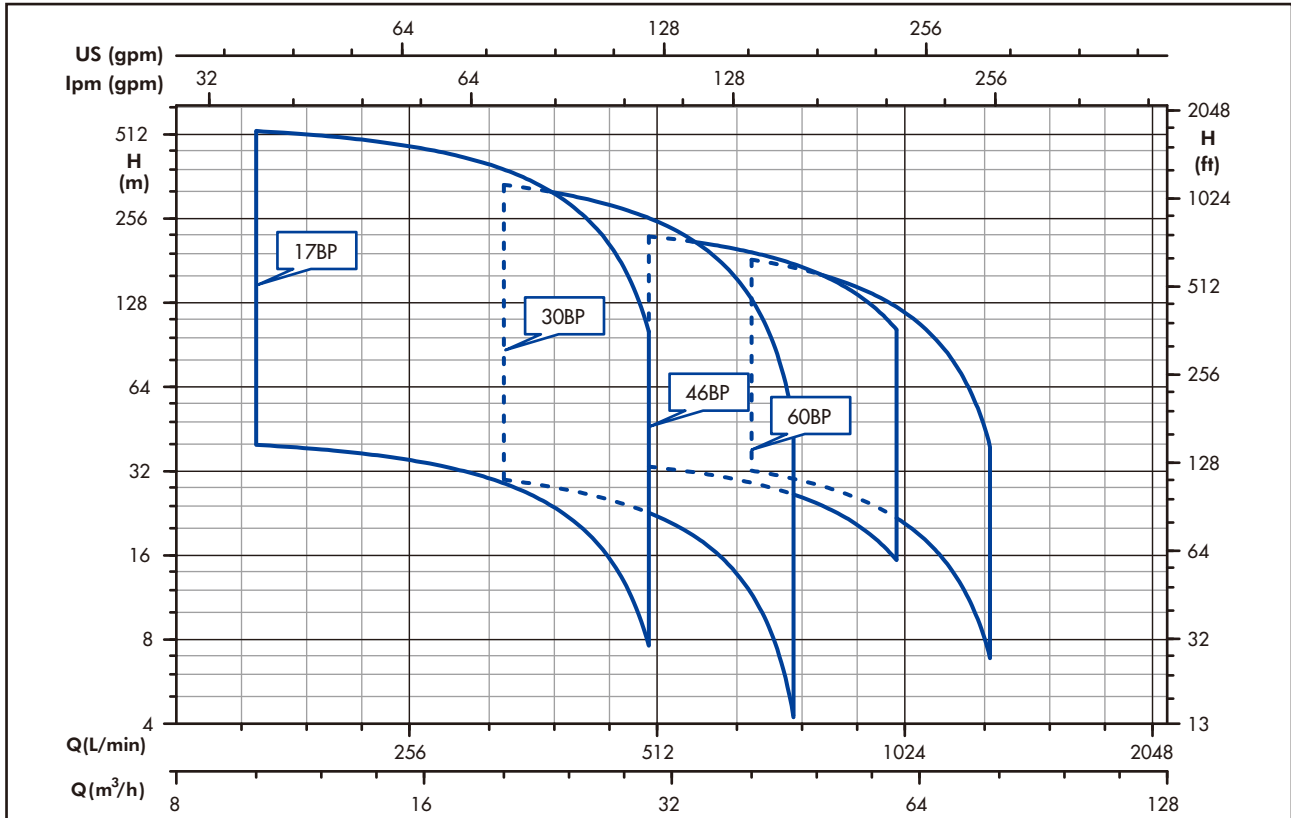
### OPTIONAL FEATURES

- Different voltage and frequency.
- Delivery port: Rp4".

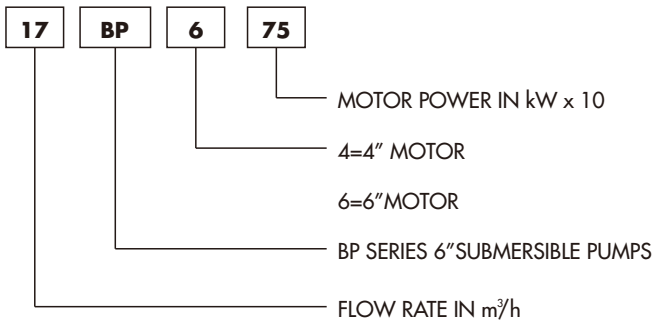


## BP SERIES

### HYDRAULIC PERFORMANCE RANGE AT 50 Hz



#### IDENTIFICATION CODE



#### EXAMPLE OF PUMP TYPE

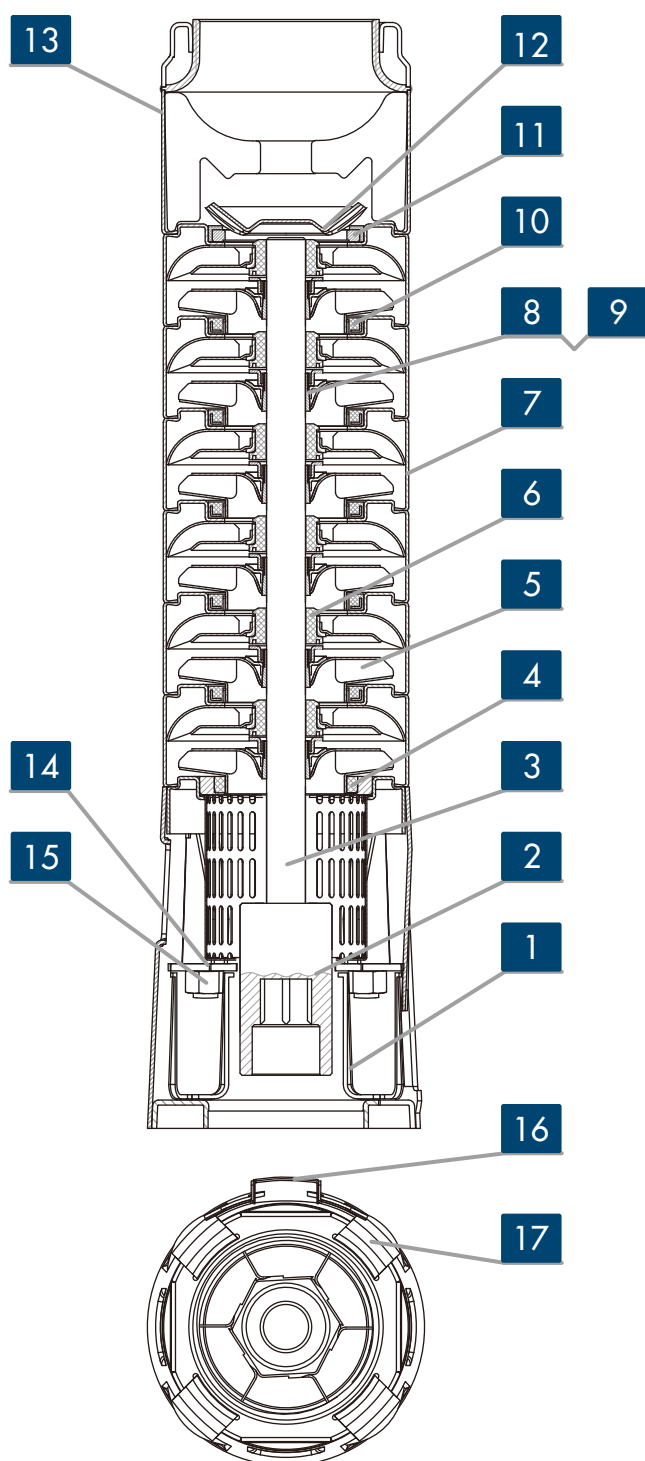
17BP675

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



## 17BP SERIES

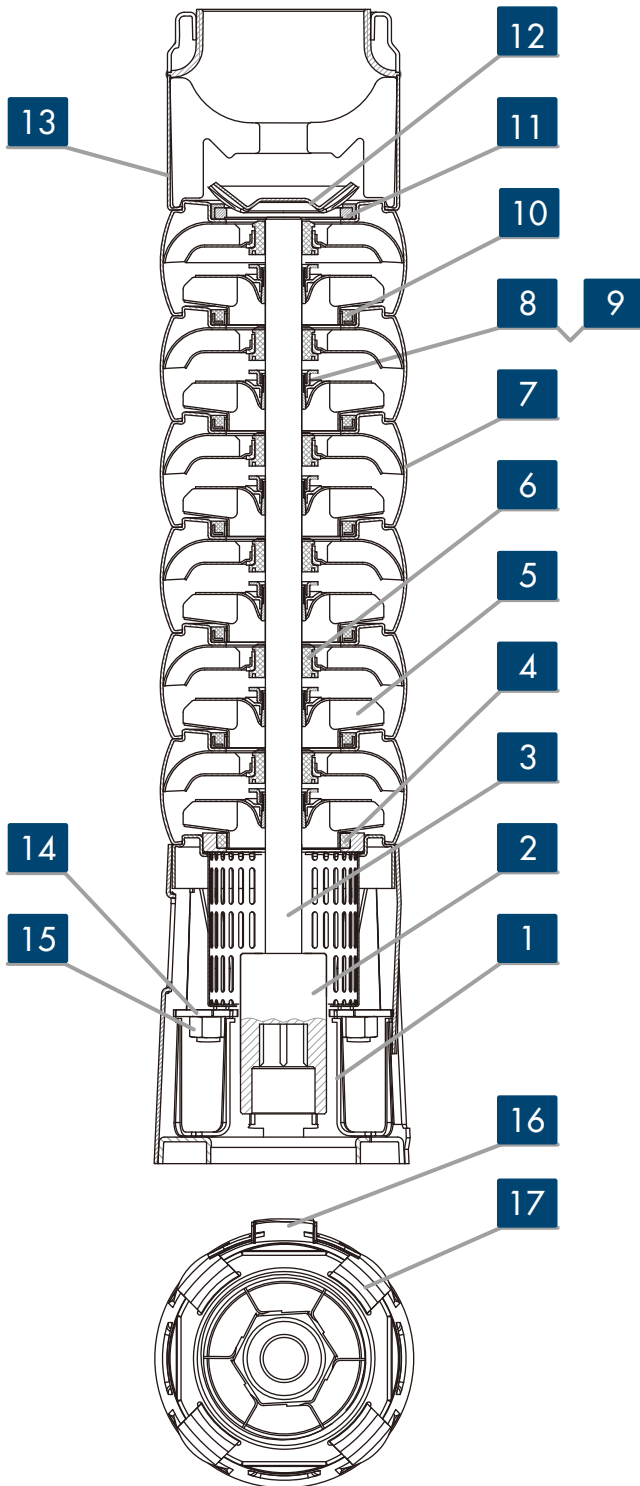
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



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

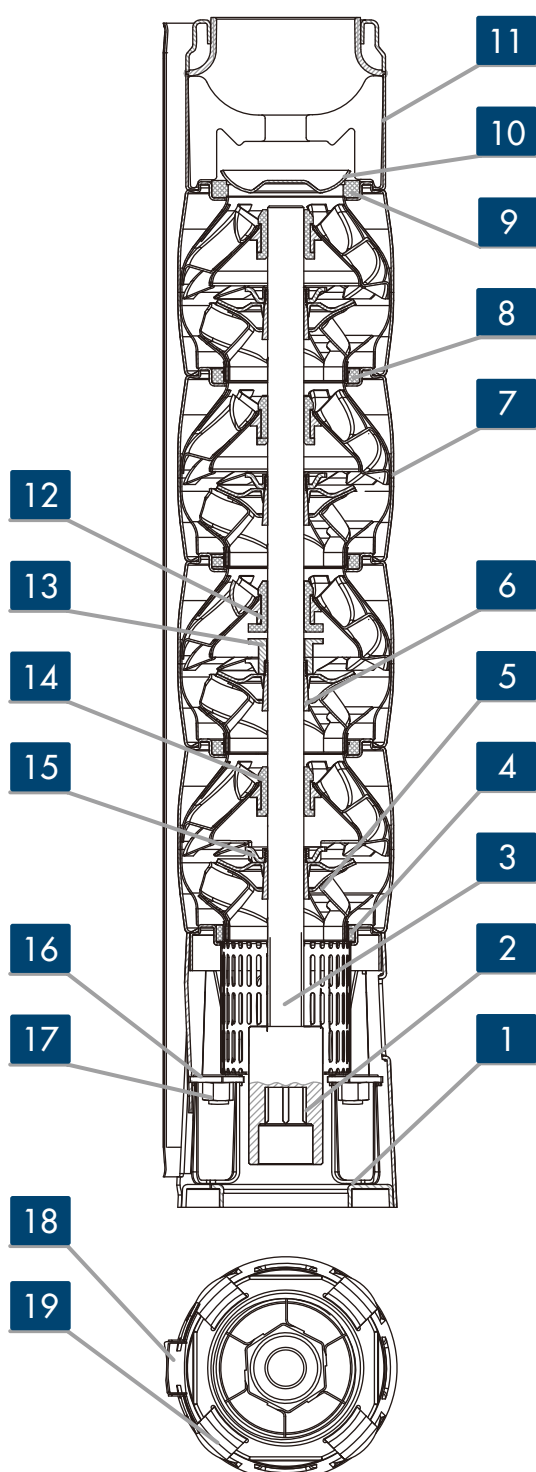
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



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

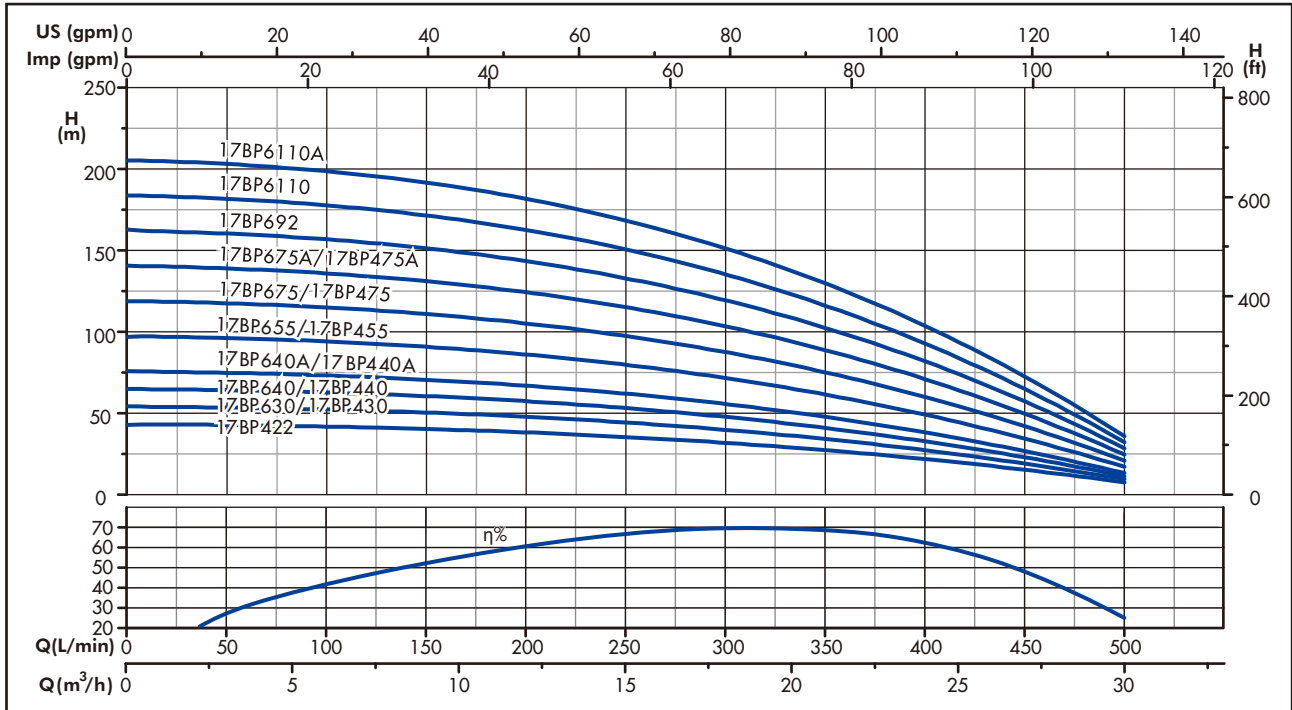
### PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



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

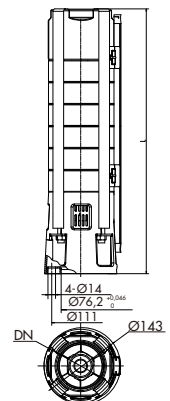


### OPERATING CHARACTERISTICS AT 50 Hz

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							
17BP422	4	2,2	3	43	42	40	35	33	29	20	8
17BP430/17BP630	5	3	4	54	53	50	44	41	36	25	10
17BP440/17BP640	6	4	5,5	65	63	60	53	50	43	30	11
17BP440A/17BP640A	7	4	5,5	76	74	70	62	58	51	35	13
17BP455/17BP655	9	5,5	7,5	97	95	89	80	75	65	45	17
17BP475/17BP675	11	7,5	10	119	116	109	98	91	80	54	21
17BP475A/17BP675A	13	7,5	10	141	137	129	115	108	94	64	25
17BP692	15	9,2	12,5	162	158	149	133	124	109	74	29
17BP6110	17	11	15	184	179	169	151	141	123	84	32
17BP6110A	19	11	15	206	200	189	168	157	138	94	36

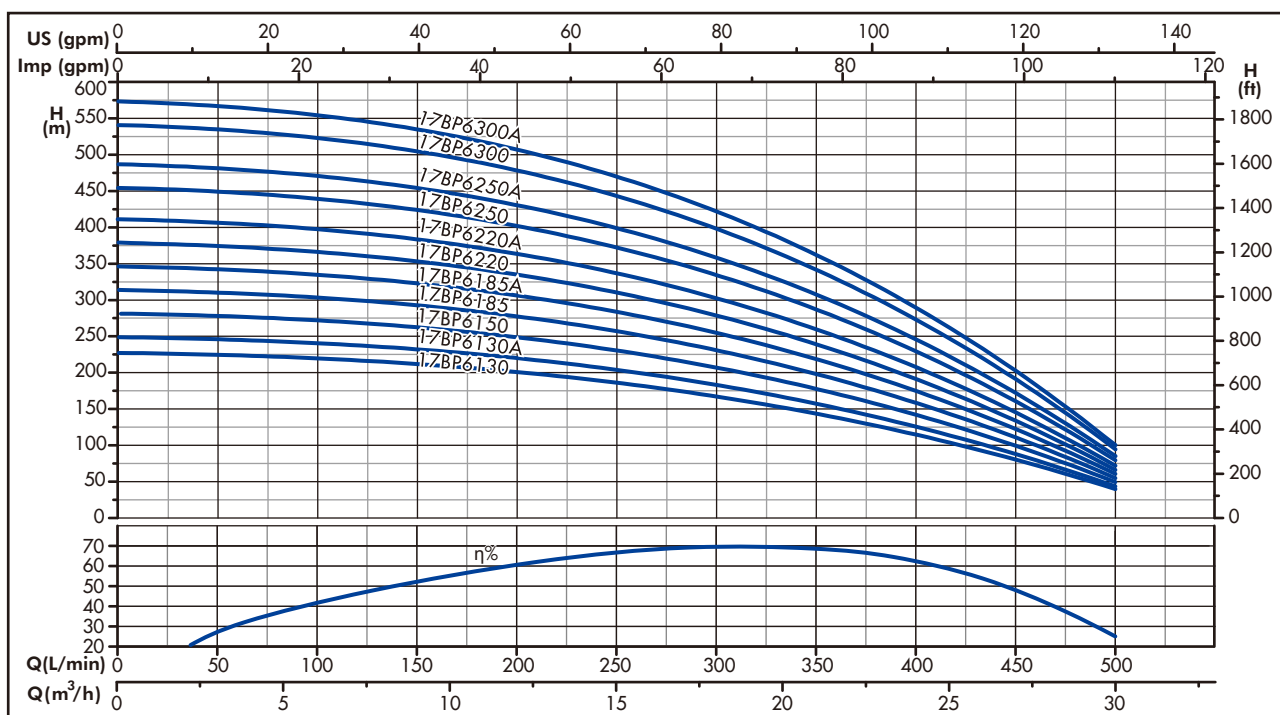
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L mm	PUMP WEIGHT kg
17BP422	4	Rp3"	426	7,4
17BP430	5		471	8,3
17BP630			496	8,7
17BP440	6		516	9,2
17BP640			541	9,6
17BP440A	7		561	10,1
17BP640A			586	10,5
17BP455	9		651	11,9
17BP655			676	12,3
17BP475	11		741	13,7
17BP675			766	14,1
17BP475A			831	15,5
17BP675A	13		856	15,9
17BP692	15		946	17,7
17BP6110	17		1036	19,5
17BP6110A	19		1126	21,3



## 17BP SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

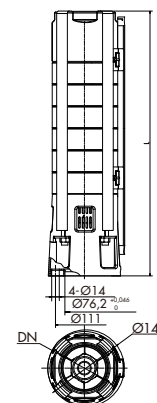


### OPERATING CHARACTERISTICS AT 50 Hz

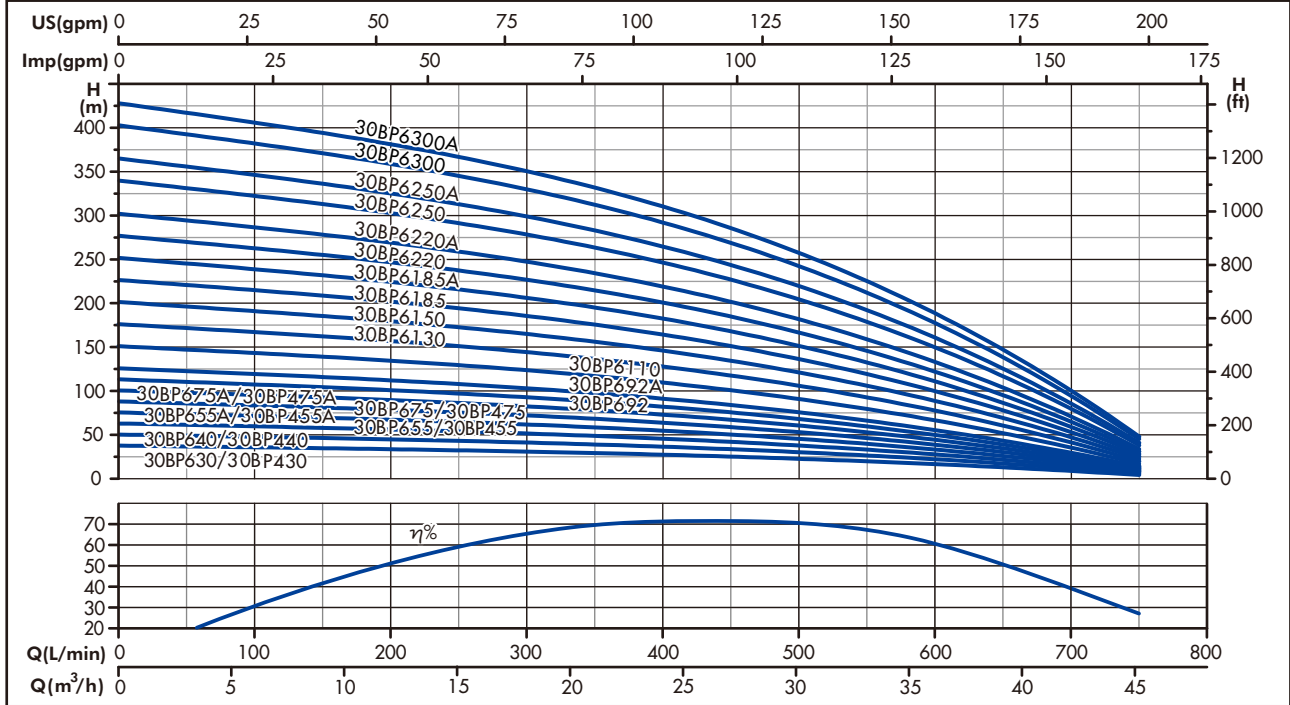
PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY							
				L/min 0	83	167	250	283	333	417	500
				H=TOTAL HEAD METERS COLUMN OF WATER							
				m³/h 0	5	10	15	17	20	25	30
17BP6130	21	13	17,5	227	222	209	186	174	152	104	40
17BP6130A	23	13	17,5	249	243	229	204	191	167	114	44
17BP6150	26	15	20	281	274	258	231	216	188	129	49
17BP6185	29	18,5	25	314	306	288	257	240	210	144	55
17BP6185A	32	18,5	25	346	338	318	284	265	232	159	61
17BP6220	35	22	30	379	369	348	310	290	253	173	67
17BP6220A	38	22	30	411	401	378	337	315	275	188	72
17BP6250	42	25	35	454	443	417	372	348	304	208	80
17BP6250A	45	25	35	487	475	447	399	373	326	223	86
17BP6300	50	30	40	541	528	497	443	414	362	248	95
17BP6300A	53	30	40	573	559	527	470	439	384	263	101

### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L mm	PUMP WEIGHT kg
17BP6130	21	Rp3"	1216	23,1
17BP6130A	23		1306	24,9
17BP6150	26		1441	27,6
17BP6185	29		1576	30,3
17BP6185A	32		1711	33
17BP6220	35		1846	35,7
17BP6220A	38		1981	38,4
17BP6250	42		2161	42
17BP6250A	45		2296	44,7
17BP6300	50		2521	49,2
17BP6300A	53		2656	51,9



### 30BP SERIES OPERATING CHARACTERISTICS AT 50 Hz

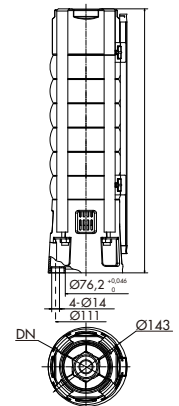


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY							
				L/min 0	167	333	417	500	583	667	750
				m³/h 0	10	20	25	30	35	40	45
				H=TOTAL HEAD METERS COLUMN OF WATER							
30BP430/30BP630	3	3	4	38	34	30	27	23	18	12	4
30BP440/30BP640	4	4	5,5	50	46	40	36	30	24	16	6
30BP455/30BP655	5	5,5	7,5	63	57	50	44	38	30	19	7
30BP455A/30BP655A	6	5,5	7,5	76	69	60	53	45	36	23	8
30BP475/30BP675	7	7,5	10	88	80	70	62	53	41	27	10
30BP475A/30BP675A	8	7,5	10	101	92	80	71	61	47	31	11
30BP692	9	9,2	12,5	113	103	90	80	68	53	35	13
30BP692A	10	9,2	12,5	126	115	99	89	76	59	39	14
30BP6110	12	11	15	151	138	119	107	91	71	47	17
30BP6130	14	13	17,5	176	161	139	125	106	83	54	20
30BP6150	16	15	20	201	184	159	142	121	95	62	23
30BP6185	18	18,5	25	227	206	179	160	136	107	70	25
30BP6185A	20	18,5	25	252	229	199	178	151	118	78	28
30BP6220	22	22	30	277	252	219	196	167	130	85	31
30BP6220A	24	22	30	302	275	239	213	182	142	93	34
30BP6250	27	25	35	340	310	269	240	204	160	105	38
30BP6250A	29	25	35	365	333	288	258	220	172	113	41
30BP6300	32	30	40	403	367	318	285	242	189	124	45
30BP6300A	34	30	40	428	390	338	302	257	201	132	48

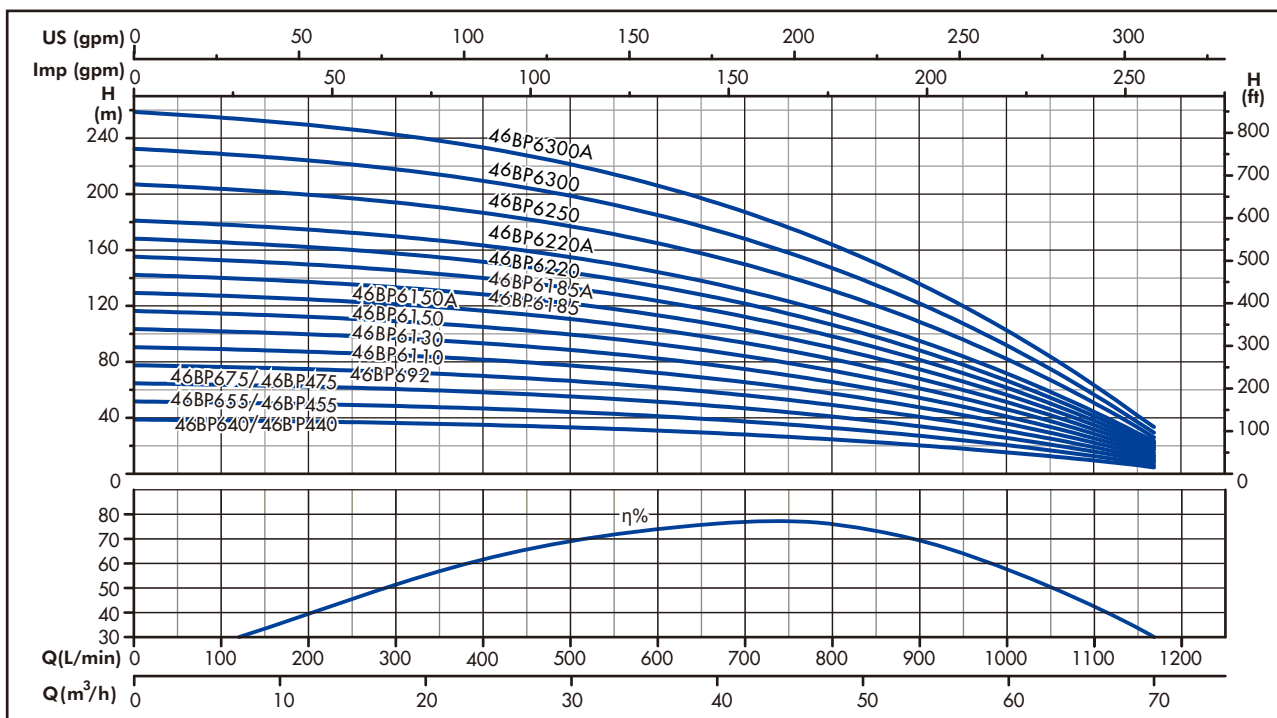
### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L mm	PUMP WEIGHT kg
30BP430	3	Rp3"	421	6,8
30BP630			444	7,2
30BP440			477	7,8
30BP640	500		8,2	
30BP455	5		533	8,8
30BP655			556	9,2
30BP455A	6		589	9,8
30BP655A			612	10,2
30BP475	7		645	10,8
30BP675			668	11,2
30BP475A	8		701	11,8
30BP675A			724	12,2
30BP692	9		780	13,2
30BP692A			836	14,2
30BP6110	12	948	16,2	
30BP6130	14	1060	18,2	
30BP6150	16	1172	20,2	
30BP6185	18	1284	22,2	
30BP6185A	20	1396	24,2	
30BP6220	22	1508	26,2	
30BP6220A	24	1620	28,2	
30BP6250	27	1788	31,2	
30BP6250A	29	1900	33,2	
30BP6300	32	2068	36,2	
30BP6300A	34	2180	38,2	



## 46BP SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

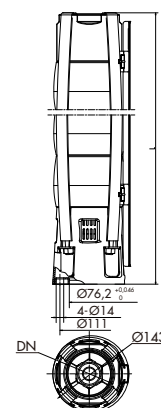


### OPERATING CHARACTERISTICS AT 50 Hz

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												
46BP440/46BP640	3	4	5,5	39	38	36	31	29	26	23	20	15	11	5		
46BP455/46BP655	4	5,5	7,5	52	50	48	42	39	34	31	26	21	14	7		
46BP475/46BP675	5	7,5	10	65	63	60	52	48	43	39	33	26	18	9		
46BP692	6	9,2	12,5	78	75	72	63	58	52	47	39	31	21	10		
46BP6110	7	11	15	91	88	84	73	68	60	54	46	36	25	12		
46BP6130	8	13	17,5	103	101	96	84	78	69	62	52	41	28	14		
46BP6150	9	15	20	116	113	108	94	87	77	70	59	46	32	15		
46BP6150A	10	15	20	129	126	120	104	97	86	78	65	51	35	17		
46BP6185	11	18,5	25	142	138	132	115	107	95	85	72	56	39	19		
46BP6185A	12	18,5	25	155	151	144	125	116	103	93	78	62	42	20		
46BP6220	13	22	30	168	163	156	136	126	112	101	85	67	46	22		
46BP6220A	14	22	30	181	176	168	146	136	121	109	92	72	49	24		
46BP6250	16	25	35	207	201	192	167	155	138	124	105	82	56	27		
46BP6300	18	30	40	233	226	216	188	175	155	140	118	92	63	31		
46BP6300A	20	30	40	259	251	240	209	194	172	155	131	103	70	34		

### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L mm	PUMP WEIGHT kg
46BP440	3	Rp3"/Rp4"	585	10,4
46BP640			610	10,8
46BP455			698	12,7
46BP655	723		13,1	
46BP475	5		811	15
46BP675			836	15,4
46BP692	6		949	17,7
46BP6110	7		1062	20
46BP6130	8		1175	22,3
46BP6150	9		1288	24,6
46BP6150A	10		1401	26,9
46BP6185	11		1514	29,2
46BP6185A	12		1627	31,5
46BP6220	13		1740	33,8
46BP6220A	14		1853	36,1
46BP6250	16		2079	40,7
46BP6300	18		2305	45,3
46BP6300A	20		2531	49,9



## 60BP SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

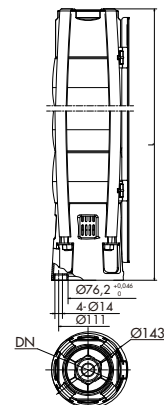


### OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY												
				L/min 0	583	667	767	833	917	1000	1083	1200	1300			
				m³/h 0												
				H=TOTAL HEAD METERS COLUMN OF WATER												
				39	34	32	30	28	25	22	18	12	7			
60BP455/60BP655	3	5,5	7,5	39	34	32	30	28	25	22	18	12	7			
60BP475/60BP675	4	7,5	10,5	52	45	43	39	37	33	29	24	17	9			
60BP692	5	9,2	12,5	65	56	54	49	46	42	36	30	21	11			
60BP6110	6	11	15	78	68	64	59	55	50	44	36	25	14			
60BP6130	7	13	17,5	91	79	75	69	65	58	51	42	29	16			
60BP6150	8	15	20	104	90	86	79	74	66	58	49	33	18			
60BP6185	9	18,5	25	117	102	96	89	83	75	65	55	37	21			
60BP6185A	10	18,5	25	130	113	107	99	92	83	73	61	42	23			
60BP6220	11	22	30	143	124	118	109	101	91	80	67	46	25			
60BP6220A	12	22	30	156	135	129	118	111	100	87	73	50	27			
60BP6250	13	26	35	169	147	139	128	120	108	94	79	54	30			
60BP6250A	14	26	35	182	158	150	138	129	116	102	85	58	32			
60BP6300	16	30	40	208	181	171	158	148	133	116	97	67	37			
60BP6300A	17	30	40	221	192	182	168	157	141	123	103	71	39			

### DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L mm	PUMP WEIGHT kg
60BP455	3	Rp3"/Rp4"	585	10,8
60BP655			610	11,2
60BP475	4		698	13,1
60BP675			723	13,5
60BP692	5		836	15,8
60BP6110	6		949	18,1
60BP6130	7		1062	20,4
60BP6150	8		1175	22,7
60BP6185	9		1288	25
60BP6185A	10		1401	27,3
60BP6220	11		1514	29,6
60BP6220A	12		1627	31,9
60BP6250	13		1740	34,2
60BP6250A	14		1853	36,5
60BP6300	16		2079	41,1
60BP6300A	17		2192	43,4



## CBS SERIES SINGLE-PHASE ELECTRIC PANELS

### APPLICATIONS

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

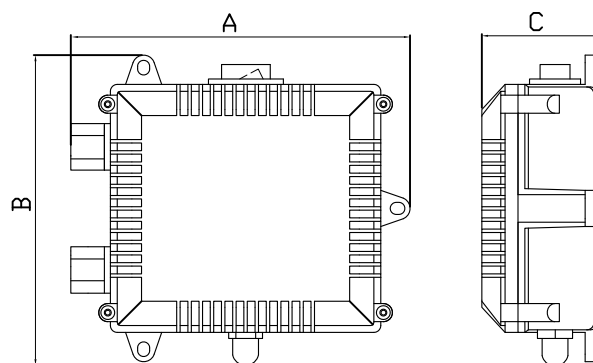
### SPECIFICATIONS

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



### 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 $\mu$ F/450V	A mm	B mm	C mm	WEIGHT kg
		kW	Hp						
CBS025	220	0,25	0,33	2,35	16	195	177	70	0,48
CBS035	220	0,37	0,5	3,3	22	195	177	70	0,49
CBS055	220	0,55	0,75	4,63	25	195	177	70	0,50
CBS075	220	0,75	1	6,0	30	195	177	70	0,54
CBS115	220	1,1	1,5	8,4	43	195	177	70	0,61
CBS155	220	1,5	2	11,0	65	195	177	70	0,69
CBS225	220	2,2	3	15,8	70	195	177	70	0,73

## CBL SERIES SINGLE-PHASE ELECTRIC PANELS

### APPLICATIONS

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

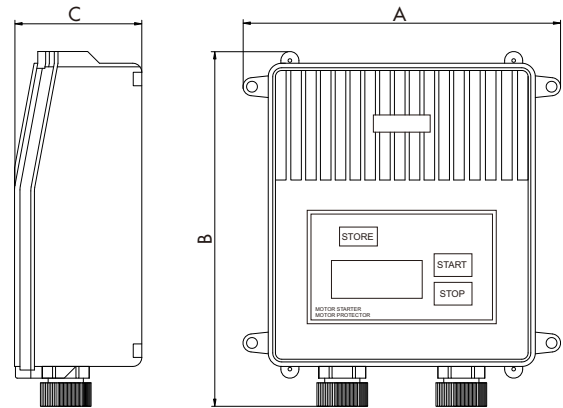
### SPECIFICATIONS

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



### CONSTRUCTION & CHARACTERISTICS

- Dry running protection.
- Blocking protection.
- Over voltage protection.
- Over current protection.
- Low voltage protection.
- HD LCD display.
- Quick five faults record query.
- Pump total run time query.
- Failure alarm.
- One key resetting



PANEL TYPE	VOLTAGE V	POWER		CURRENT A	CAPACITOR $\mu$ F/450V	A mm	B mm	C mm	WEIGHT kg
		kW	Hp						
CBL02S	220	0,25	0,33	2,35	16	150	185	67	0,46
CBL03S	220	0,37	0,5	3,3	22	150	185	67	0,48
CBL05S	220	0,55	0,75	4,63	25	150	185	67	0,48
CBL07S	220	0,75	1	6,0	30	150	185	67	0,5
CBL11S	220	1,1	1,5	8,4	43	150	185	67	0,67

## CBS SERIES THREE-PHASE ELECTRIC PANELS (0,37~7,5kW)

### APPLICATIONS

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

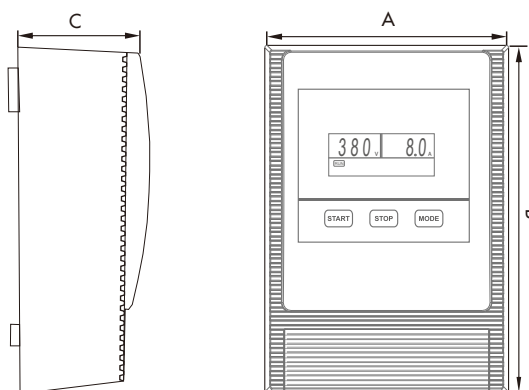
### SPECIFICATIONS

- Supply voltage: 3 x 380 V  $\pm$ 10%.
- Frequency: 50/60 Hz.
- Power: 0,37 to 7,5 kW.
- Protection class: IP54.
- Ambient temperature: 0°C to +40°C.
- Relative humidity:  $\leq$  90%.
- Altitude:  $\leq$  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.
- Plastic case



PANEL TYPE	VOLTAGE V	POWER		CURRENT A	A mm	B mm	C mm	WEIGHT kg
		kW	Hp					
CBS03T	380	0,37	0,5	1,4	160	228	73	1,2
CBS05T	380	0,55	0,75	2,5	160	228	73	1,2
CBS07T	380	0,75	1	2,5	160	228	73	1,2
CBS11T	380	1,1	1,5	3,4	160	228	73	1,2
CBS15T	380	1,5	2	4,4	160	228	73	1,2
CBS22T	380	2,2	3	6,2	160	228	73	1,2
CBS30T	380	3	4	8,3	160	228	73	1,2
CBS40T	380	4	5,5	10,8	160	228	73	1,2
CBS55T	380	5,5	7,5	14,4	160	228	73	1,2
CBS75T	380	7,5	10	19,0	160	228	73	1,2

## CBS SERIES THREE-PHASE ELECTRIC PANELS (9,2~15kW)

### APPLICATIONS

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

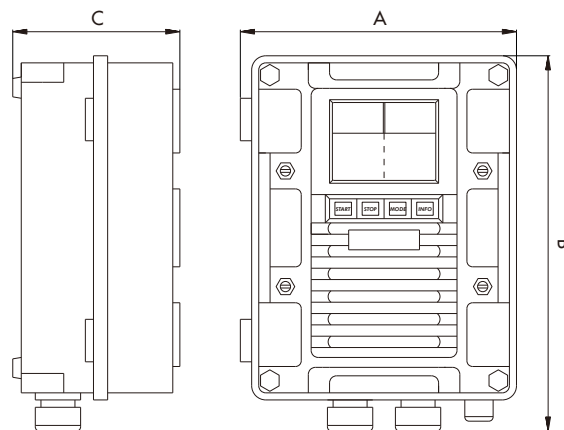
### SPECIFICATIONS

- Supply voltage: 3 x 380 V  $\pm$ 10%.
- Frequency: 50/60 Hz.
- Power: 9,2 to 15 kW.
- Protection class: IP54.
- Ambient temperature: 0°C to +40°C.
- Relative humidity:  $\leq$  90%.
- Altitude:  $\leq$  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.
- Plastic case



PANEL TYPE	VOLTAGE V	POWER		CURRENT A	A mm	B mm	C mm	WEIGHT kg
		kW	Hp					
CBS92T	380	9,2	12,5	22,4	195	270	112	1,8
CBS110T	380	11	15	26,5	195	270	112	1,8
CBS130T	380	13	17,5	30,9	195	270	112	1,8
CBS150T	380	15	20	36,0	195	270	112	1,8









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