

# *«SEWAGE SUBMERSIBLE ELECTRIC PUMPS »*



## Sewage Submersible Pumps

Types  
 SS-H 423/3/2.2  
 SS-H 420/3/3  
 SS-H 413/4/4  
 SS-H 424/4/5.5

Capacity up to 30 m<sup>3</sup>/h, heads up to 75 m.

### Specifications

#### >> Motor data

Squirrel cage 3-phase induction motor  
 Frequency 50 HZ  
 Insulation class H(+180 °C)  
 Ingress of protection IP68

Voltage variation  
 -continuously running Max ± 5%  
 -intermittent running Max ± 10%

Voltage imbalance between phases Max ± 2%  
 No. of start/hour Max 10

#### >> Material

Pump housing Cast iron GG25  
 Stator housing Stainless steel 304, 316L, Cast iron  
 Impeller Stainless steel 304, 316L, Cast iron  
 Shaft Stainless steel ANSI 420  
 O-ring Viton rubber

#### >> Mechanical face

##### seals

Upper Silicon carbide/Carbon  
 Lower Tungsten carbide/Silicon Carbide

##### >> Bearings

Upper Deep groove ball bearing  
 Lower Deep groove ball bearing

**Fasteners.** Stainless steel ANSI 304.

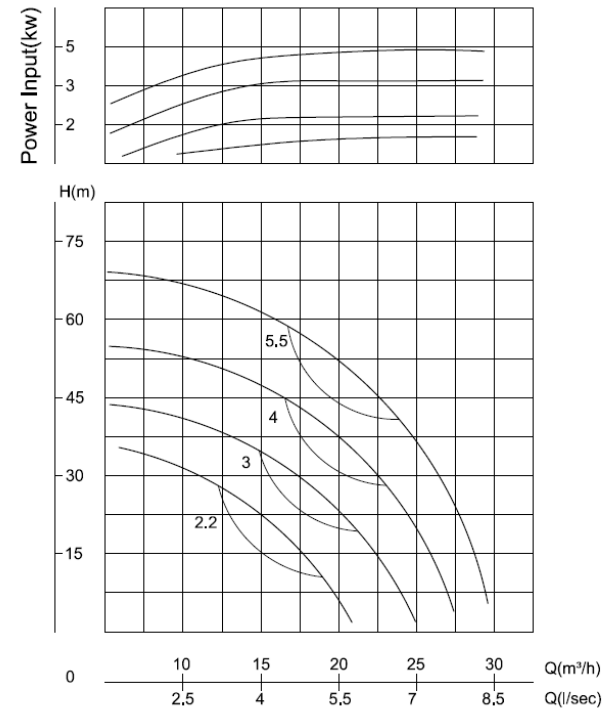
### Options.

Rubber-lined wear parts  
 Various cable sizes.

### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.

SS-H 423/3/2.2, SS-H 420/3/3, SS-H 413/4/4, SS-H 424/4/5.5  
 Power Input and Performance Data



VERSION	KW	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
SS-H 423/3/2.2	2.2	3	380	4	16	3*2.5
SS-H 420/3/3	3	3	380	6	24	4*4
SS-H 413/4/4	4	3	380	8	32	4*4
SS-H 424/4/5.5	5.5	3	380	11	44	4*4



### Applications:

These pumps are used mainly for pumping sewage, waste water and storm water in municipal pump stations, and sludge in sewage treatment plants which needs high head.

## Sewage Submersible Pumps

Types **SS 423/3/1.5**

Capacity up to 75 m<sup>3</sup>/h, heads up to 9 m.



### Specifications

#### >> Motor data

Squirrel cage 3-phase induction motor  
Frequency 50 HZ  
Insulation class H(+180 °C)  
Ingress of protection IP68

Voltage variation  
-continuously running Max ± 5%  
-intermittent running Max ± 10%

Voltage imbalance between phases Max ± 2%  
No. of start/hour Max 10

#### >> Material

Pump housing Cast iron GG25  
Stator housing Stainless steel 304, 316L, Cast iron  
Impeller Stainless steel 304, 316L, Cast iron  
Shaft Stainless steel ANSI 420  
O-ring Viton rubber

#### >> Mechanical face seals

Upper Silicon carbide/Carbon  
Lower Tungsten carbide/Silicon Carbide

#### >> Bearings

Upper Deep groove ball bearing  
Lower Deep groove ball bearing

**Fasteners.** Stainless steel ANSI 304.

### Options.

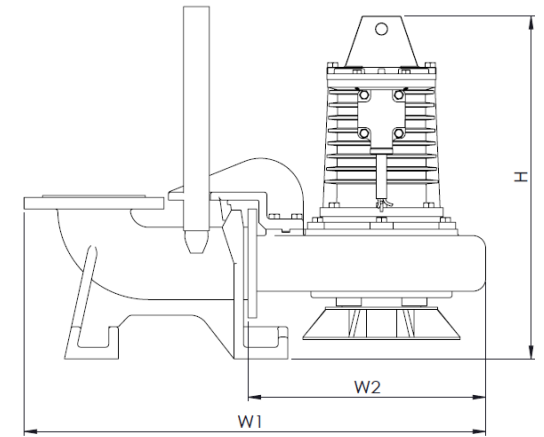
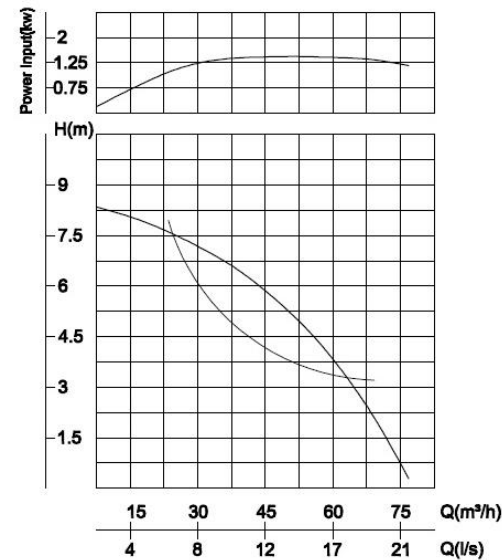
Rubber-lined wear parts  
Various cable sizes.

### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.

## SS 423/3/1.5

Power Input and Performance Data

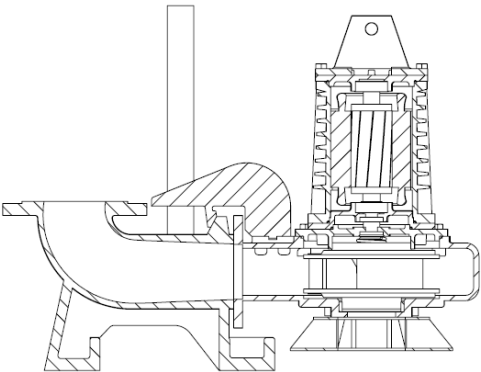


### Applications:

SS 423/3/1.5 are used mainly for pumping sewage, waste water and storm water in municipal pump stations, and sludge in sewage treatment plants.

Dimensions							
W <sub>1</sub> inches	W <sub>1</sub> mm	W <sub>2</sub> inches	W <sub>2</sub> mm	H inches	H mm	Weight	
						Lbs.	kg
<b>SS 423/3/1.5</b>							
28	720	15	370	21	535	121	55

VERSION	KW	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
SS 423/3/1.5	1.5	3	380	3	12	3*2.5



## Sewage Submersible Pumps

Types **SS 2105/2/2.2**  
**SS 2104/2/1.5**  
**SS 2103/2/1.2**

Capacity up to 50 m<sup>3</sup>/h, heads up to 20 m.

SS 2105/2/2.2 & SS 2104/2/1.5 & SS 2103/2/1.2  
Power Input and Performance Data



### Specifications

#### >> Motor data

Squirrel cage 3-phase induction motor  
Frequency 50 HZ  
Insulation class H(+180 °C)  
Ingress of protection IP68

Voltage variation  
-continuously running Max ± 5%  
-intermittent running Max ± 10%

Voltage imbalance between phases Max ± 2%  
No. of start/hour Max 10

#### >> Material

Pump housing Cast iron GG25  
Stator housing Stainless steel 304, 316L, Cast iron  
Impeller Stainless steel 304, 316L, Cast iron  
Shaft Stainless steel ANSI 420  
O-ring Viton rubber

#### >> Mechanical face seals

Upper Silicon carbide/Carbon  
Lower Tungsten carbide/Silicon Carbide

#### >> Bearings

Upper Deep groove ball bearing  
Lower Deep groove ball bearing

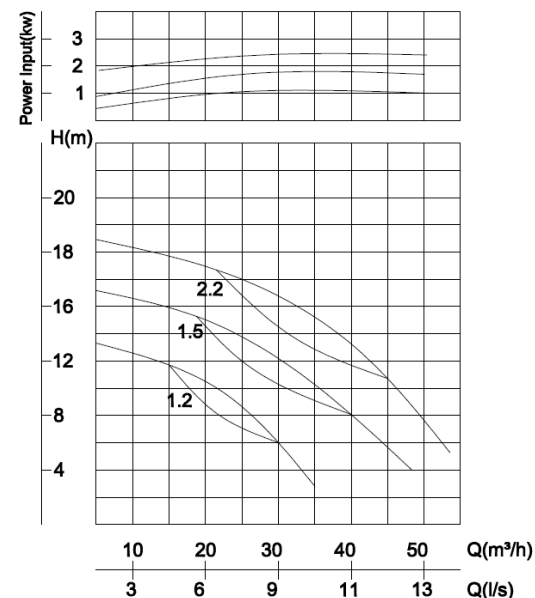
**Fasteners.** Stainless steel ANSI 304.

### Options.

Rubber-lined wear parts  
Various cable sizes.

### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.



### Applications:

SS 423/3/1.5 are used mainly for pumping sewage, waste water and storm water in municipal pump stations, and sludge in sewage treatment plants.

VERSION	KW	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
SS 2105/2/2.2	2.2	3	380	4	16	3*2.5
SS 2104/2/1.5	1.5	3	380	3	12	3*2.5
SS 2103/2/1.2	1.2	3	380	2.5	10	3*2.5

## Sewage Submersible Pumps

Types **SS 60/3/2.8**  
**SS 50/2/1.8**

Capacity up to 30 m<sup>3</sup>/h, heads up to 25 m.



### Specifications

#### >> Motor data

Squirrel cage 3-phase induction motor  
Frequency 50 HZ  
Insulation class H(+180 °C)  
Ingress of protection IP68

Voltage variation  
-continuously running Max ± 5%  
-intermittent running Max ± 10%

Voltage imbalance between phases Max ± 2%  
No. of start/hour Max 10

#### >> Material

Pump housing Cast iron GG25  
Stator housing Stainless steel 304, 316L, Cast iron  
Impeller Stainless steel 304, 316L, Cast iron  
Shaft Stainless steel ANSI 420  
O-ring Viton rubber

#### >> Mechanical face seals

Upper Silicon carbide/Carbon  
Lower Tungsten carbide/Silicon Carbide

#### >> Bearings

Upper Deep groove ball bearing  
Lower Deep groove ball bearing

**Fasteners.** Stainless steel ANSI 304.

### Options.

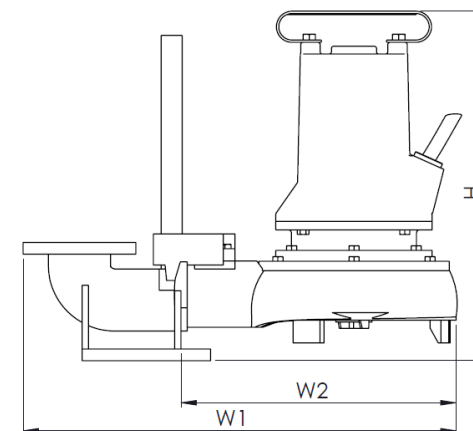
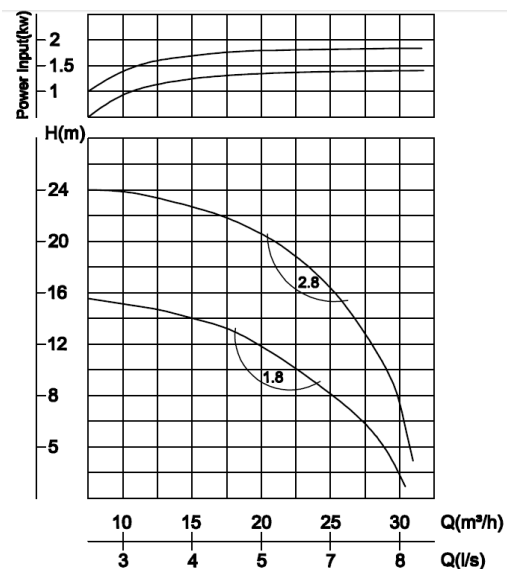
Rubber-lined wear parts  
Various cable sizes.

### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.

## SS 60/3/2.8 & SS 50/2/1.8

Power Input and Performance Data

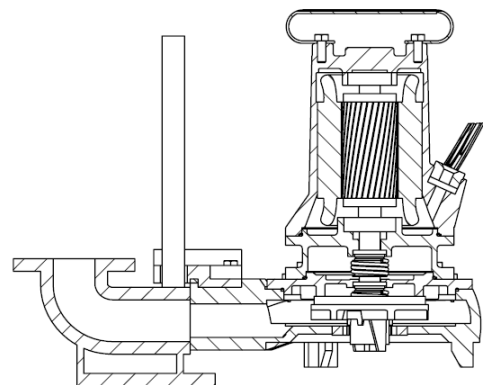


### Applications:

SS 60/3/2.8 & SS 50/2/1.8 are used mainly for pumping sewage, waste water and storm water in municipal pump stations, and sludge in sewage treatment plants.

Dimensions							
W <sub>1</sub>	W <sub>1</sub>	W <sub>2</sub>	W <sub>2</sub>	H	H	Weight	
inches	mm	inches	mm	inches	mm	Lbs.	kg
<b>SS 60/3/2.8</b>							
22	560	14	355	18	450	121	55
<b>SS 50/2/1.8</b>							
22	560	14	355	18	450	117	53

VERSION	KW	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
SS 60/3/2.8	2.8	3	380	5.6	22.4	3*2.5
SS 50/2/1.8	1.8	3	380	3.6	14.4	3*2.5



## Sewage Submersible Pumps

SS 350/4/7.5

Types SS 320/4/5.5

SS 300/4/3.5

Capacity up to 110 m<sup>3</sup>/h, heads up to 25 m.



### Specifications

#### >> Motor data

Squirrel cage 3-phase induction motor  
Frequency 50 HZ  
Insulation class H(+180 °C)  
Ingress of protection IP68

Voltage variation  
-continuously running Max ± 5%  
-intermittent running Max ± 10%

Voltage imbalance between phases Max ± 2%  
No. of start/hour Max 10

#### >> Material

Pump housing Cast iron GG25  
Stator housing Stainless steel 304, 316L, Cast iron  
Impeller Stainless steel 304, 316L, Cast iron  
Shaft Stainless steel ANSI 420  
O-ring Viton rubber

#### >> Mechanical face

**seals**  
Upper Silicon carbide/Carbon  
Lower Tungsten carbide/Silicon Carbide

#### >> Bearings

Upper Deep groove ball bearing  
Lower Two Deep groove ball bearing

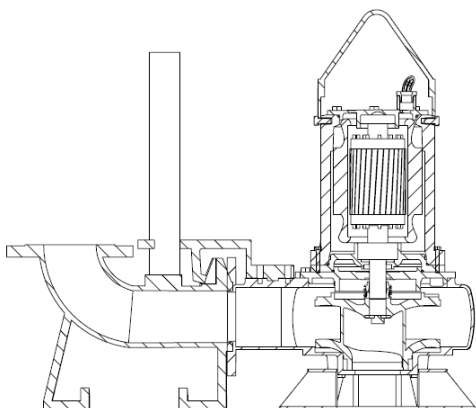
**Fasteners.** Stainless steel ANSI 304.

### Options.

Rubber-lined wear parts  
Various cable sizes.

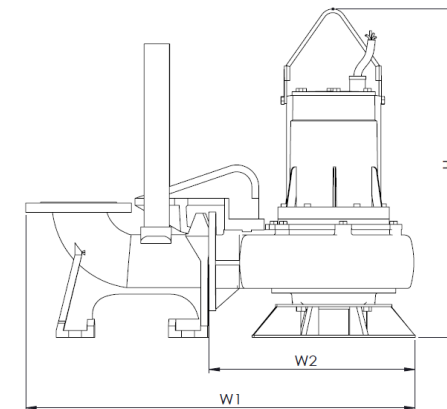
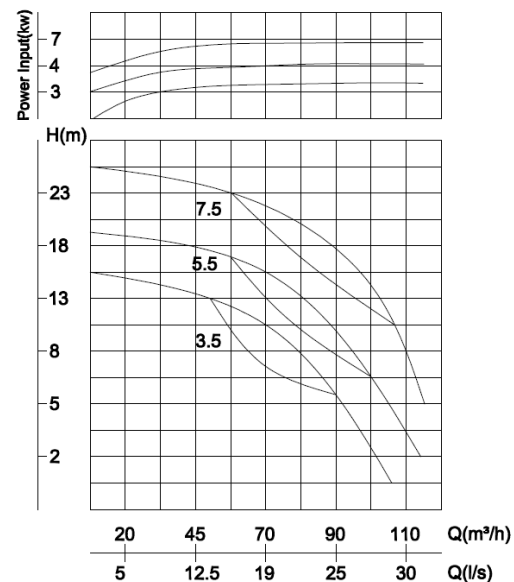
### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.



## SS 350/4/7.5, SS 320/4/5.5 & SS 300/4/3.5

Power Input and Performance Data



Dimensions							
W <sub>1</sub>	W <sub>1</sub>	W <sub>2</sub>	W <sub>2</sub>	H	H	Weight	
inches	mm	inches	mm	inches	mm	Lbs.	kg
<b>SS 350/4/7.5</b>							
37	950	19	475	30	775	317	144
<b>SS 320/4/5.5</b>							
37	950	19	475	25	650	291	132
<b>SS 300/4/3.5</b>							
33	845	17	445	28	720	198	95

VERSION	KW	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
SS 350/4/7.5	7.5	3	380	15	60	4*4
SS 320/4/5.5	5.5	3	380	11	44	4*4
SS 300/4/3.5	3.5	3	380	7	28	4*4

## Sewage Submersible Pumps

Types **SS 428/6/18.5**  
**SS 427/6/11**  
**SS 426/6/8**

Capacity up to 280 m<sup>3</sup>/h, heads up to 30 m.

### Specifications

#### >> Motor data

Squirrel cage 3-phase induction motor  
Frequency 50 HZ  
Insulation class H(+180 °C)  
Ingress of protection IP68

Voltage variation  
-continuously running Max ± 5%  
-intermittent running Max ± 10%

Voltage imbalance between phases Max ± 2%  
No. of start/hour Max 10

#### >> Material

Pump housing Cast iron GG25  
Stator housing Stainless steel 304, 316L, Cast iron  
Impeller Stainless steel 304, 316L, Cast iron  
Shaft Stainless steel ANSI 420  
O-ring Viton rubber

#### >> Mechanical face seals

Upper Silicon carbide/Carbon  
Lower Tungsten carbide/Silicon Carbide

#### >> Bearings

Upper Deep groove ball bearing  
Lower Two Deep groove ball bearing

Fasteners. Stainless steel ANSI 304.

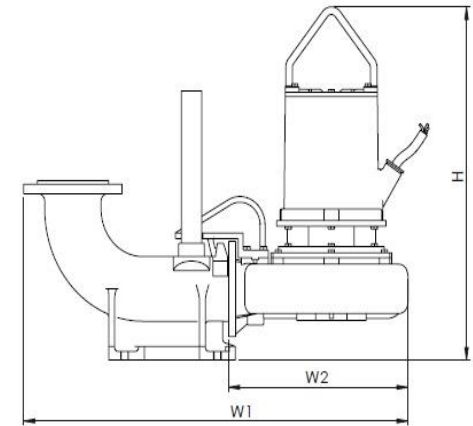
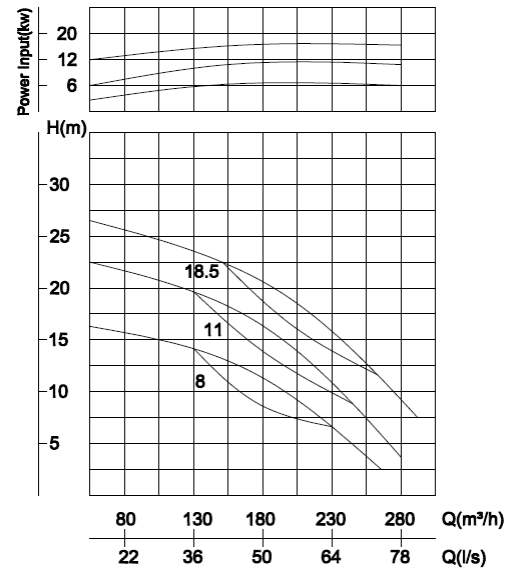
### Options.

Rubber-lined wear parts  
Various cable sizes.

### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.

SS 428/6/18.5, SS 427/6/11 & SS 426/6/8  
Power Input and Performance Data

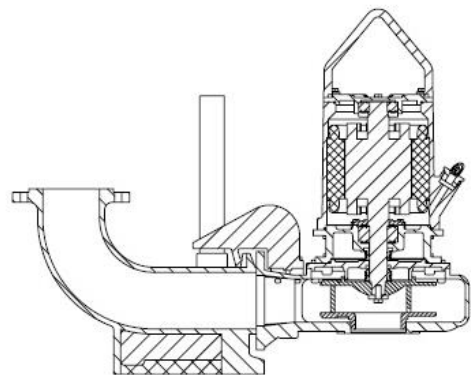


### Applications:

SS 428/6/18.5, SS 427/6/11 & SS 426/6/8 are used mainly for pumping sewage, waste water and storm water in municipal pump stations, and sludge in sewage treatment plants.

Dimensions							
W <sub>1</sub> inches	W <sub>1</sub> mm	W <sub>2</sub> inches	W <sub>2</sub> mm	H inches	H mm	Weight	
						Lbs.	kg
<b>SS 428/6/18.5</b>							
46	1160	21	540	35	890	476	216
<b>SS 427/6/11</b>							
46	1160	21	540	34	860	463	210
<b>SS 426/6/8</b>							
40	1025	16	405	26	660	308	140

VERSION	KW	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
SS 428/6/18.5	18.5	3	380/660	36	144	4*6
SS 427/6/11	11	3	380/660	22	88	4*6
SS 426/6/8	8	3	380/660	19	76	4*6



## Sewage Submersible Pumps

SS 510/10/37

Types SS 429/8/22

SS 510/10/37 & SS 429/8/22

Power Input and Performance Data

Capacity up to 300 m<sup>3</sup>/h, heads up to 45 m.



### Specifications

#### >> Motor data

Squirrel cage 3-phase induction motor  
 Frequency 50 HZ  
 Insulation class H(+180 °C)  
 Ingress of protection IP68

Voltage variation  
 -continuously running Max ± 5%  
 -intermittent running Max ± 10%

Voltage imbalance Max ± 2%  
 between phases  
 No. of start/hour Max 10

#### >> Material

Pump housing Cast iron GG25  
 Stator housing Stainless steel 304, 316L, Cast iron  
 Impeller Stainless steel 304, 316L, Cast iron  
 Shaft Stainless steel ANSI 420  
 O-ring Viton rubber

#### >> Mechanical face

**seals**  
 Upper Silicon carbide/Carbon  
 Lower Tungsten carbide/Silicon Carbide

#### >> Bearings

Upper Cylindrical roller bearing  
 Lower Deep groove ball bearing, the  
 Lower row is angular contact.

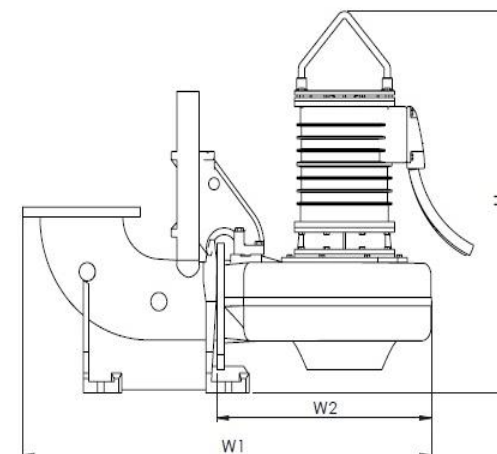
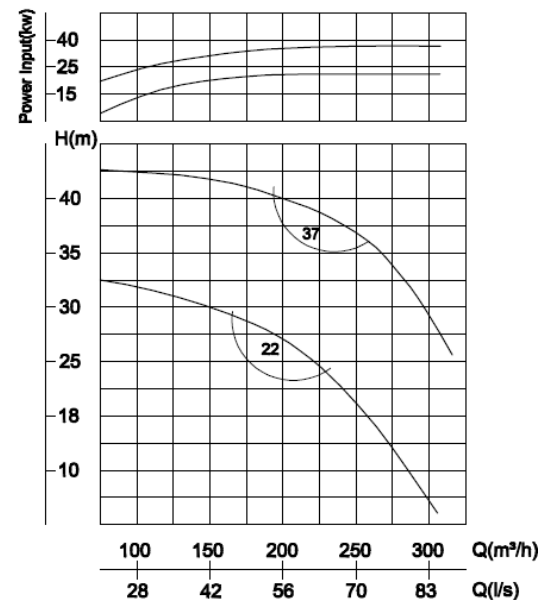
**Fasteners.** Stainless steel ANSI 304.

### Options.

Various cable sizes.

### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.

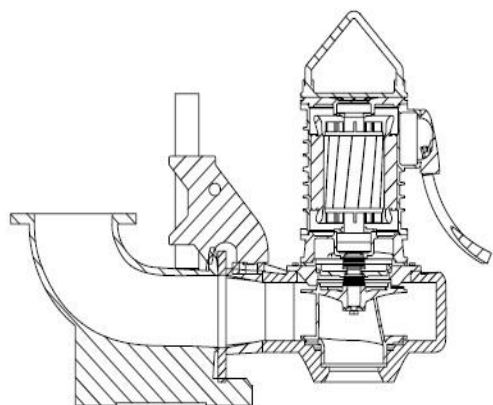


### Applications:

SS 510/10/37 & SS 429/8/22 are used mainly for pumping sewage, waste water and storm water in municipal pump stations, and sludge in sewage treatment plants.

Dimensions							
W <sub>1</sub>	W <sub>1</sub>	W <sub>2</sub>	W <sub>2</sub>	H	H	Weight	
inches	mm	inches	mm	inches	mm	Lbs.	kg
<b>SS 510/10/37</b>							
61	1540	34	860	51	1290	1256	570
<b>SS 429/8/22</b>							
52	1320	27	680	41	1050	1102	500

VERSION	KW	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
SS 510/10/37	37	3	380/660	74	148	2(4*10)
SS 429/8/22	22	3	380/660	44	88	2(4*10)





## Sewage Submersible Pumps

Types  
SS 550/10/30  
SS 500/10/22  
SS 450/8/18.5  
SS 400/8/15

Capacity up to 500 m<sup>3</sup>/h, heads up to 30 m.

### Specifications

#### >> Motor data

Squirrel cage 3-phase induction motor  
Frequency 50 HZ  
Insulation class H(+180 °C)  
Ingress of protection IP68

Voltage variation  
-continuously running Max ± 5%  
-intermittent running Max ± 10%

Voltage imbalance between phases Max ± 2%  
No. of start/hour Max 10

#### >> Material

Pump housing Cast iron GG25  
Stator housing Stainless steel 304, 316L, Cast iron  
Impeller Stainless steel 304, 316L, Cast iron  
Shaft Stainless steel ANSI 420  
O-ring Viton rubber

#### >> Mechanical face seals

Upper Silicon carbide/Carbon  
Lower Tungsten carbide/Silicon Carbide

#### >> Bearings

Upper Cylindrical roller bearing  
Lower Deep groove ball bearing ,the Lower row is angular contact.

**Fasteners.** Stainless steel ANSI 304.

### Options.

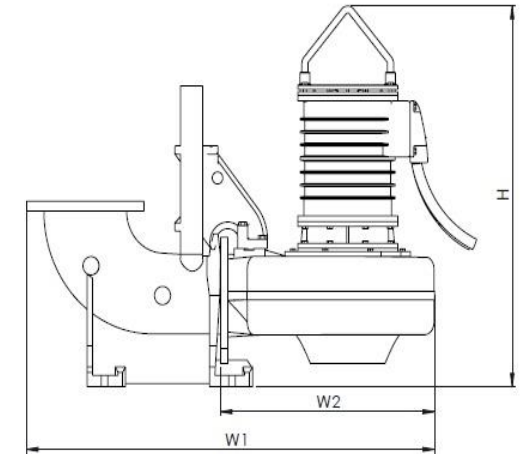
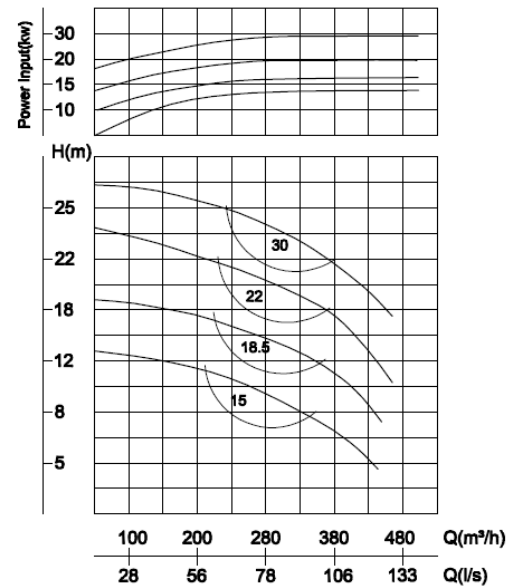
Various cable sizes.

### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.

SS 550/10/30, SS 500/10/22, SS 450/8/18.5 & SS 400/8/15

Power Input and Performance Data

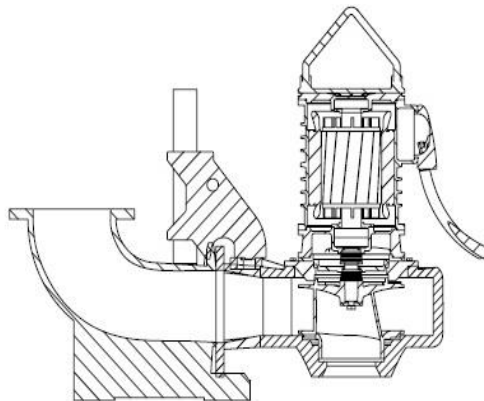


### Applications:

SS 550/10/30, SS 500/10/22, SS 450/8/18.5 & SS 400/8/15 are used mainly for pumping sewage, waste water and storm water in municipal pump stations, and sludge in sewage treatment plants.

Dimensions							
W <sub>1</sub>	W <sub>1</sub>	W <sub>2</sub>	W <sub>2</sub>	H	H	Weight	
inches	mm	inches	mm	inches	mm	Lbs.	kg
<b>SS 550/10/30</b>							
61	1540	34	860	53	1350	1323	600
<b>SS 500/10/22</b>							
61	1540	34	860	46	1170	1224	555
<b>SS 450/8/18.5</b>							
52	1320	27	680	39	1000	750	340
<b>SS 400/8/15</b>							
52	1320	27	680	39	985	805	365

VERSION	KW	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
SS 550/10/30	30	3	380/660	60	120	2(4*10)
SS 500/10/22	22	3	380/660	44	88	2(4*10)
SS 450/8/18.5	18.5	3	380/660	36	144	4*6
SS 400/8/15	15	3	380/660	30	120	4*6



## Sewage Submersible Pumps

SS 615/12/37  
Types SS 610/12/22

Capacity up to 750 m<sup>3</sup>/h, heads up to 26 m.

### Specifications

#### >> Motor data

Squirrel cage 3-phase induction motor  
Frequency 50 HZ  
Insulation class H(+180 °C)  
Ingress of protection IP68

Voltage variation  
-continuously running Max ± 5%  
-intermittent running Max ± 10%

Voltage imbalance Max ± 2%  
between phases  
No. of start/hour Max 10

#### >> Material

Pump housing Cast iron GG25  
Stator housing Stainless steel 304, 316L, Cast iron  
Impeller Stainless steel 304, 316L, Cast iron  
Shaft Stainless steel ANSI 420  
O-ring Viton rubber

#### >> Mechanical face seals

Upper Silicon carbide/Carbon  
Lower Tungsten carbide/Silicon Carbide

#### >> Bearings

Upper Cylindrical roller bearing  
Lower Deep groove ball bearing ,the  
Lower row is angular contact.

**Fasteners.** Stainless steel ANSI 304.

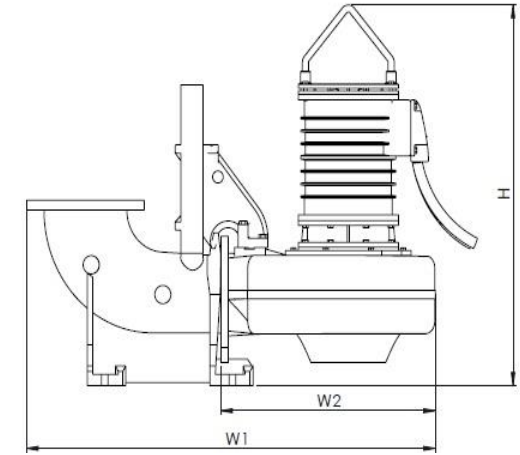
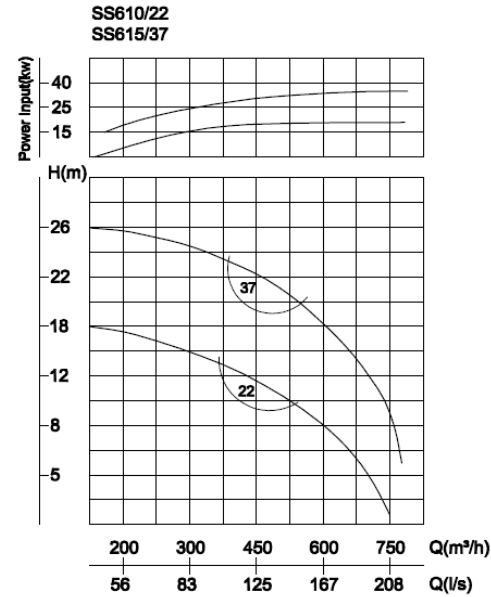
### Options.

Various cable sizes.

### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.

SS 615/12/37 & SS 610/12/22  
Power Input and Performance Data

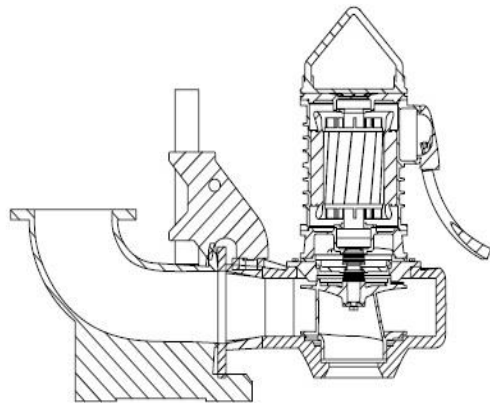


### Applications:

SS 615/12/37, & SS 610/12/22 are used mainly for pumping sewage, waste water and storm water in municipal pump stations, and sludge in sewage treatment plants.

Dimensions							
W <sub>1</sub> inches	W <sub>1</sub> mm	W <sub>2</sub> inches	W <sub>2</sub> mm	H inches	H mm	Weight	
						Lbs.	kg
<b>SS 615/12/37</b>							
65	1650	34	865	51	1355	1289	585
<b>SS 610/12/22</b>							
61	1540	34	865	45	1130	1270	576

VERSION	KW	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
SS 615/12/37	37	3	380/660	74	148	2(4*10)
SS 610/12/22	22	3	380/660	44	88	2(4*10)



## Sewage Submersible Pumps

**Types SS 300/12/200  
SS 250/10/150**

Capacity up to 1200 m<sup>3</sup>/h, heads up to 70 m.



### Specifications

#### >> Motor data

Squirrel cage 3-phase induction motor  
Frequency 50 HZ  
Insulation class H(+180 °C)  
Ingress of protection IP68

Voltage variation  
-continuously running Max ± 5%  
-intermittent running Max ± 10%

Voltage imbalance Max ± 2%  
between phases  
No. of start/hour Max 10

#### >> Material

Pump housing Cast iron GG25  
Stator housing Stainless steel 304, 316L, Cast iron  
Impeller Stainless steel 304, 316L, Cast iron  
Shaft Stainless steel ANSI 420  
O-ring Viton rubber

#### >> Mechanical face

##### seals

Upper Silicon carbide/Carbon  
Lower Tungsten carbide/Silicon Carbide

##### >> Bearings

Upper Cylindrical roller bearing  
Lower Deep groove ball bearing ,the  
Lower row is angular contact.

**Fasteners.** Stainless steel ANSI 304.

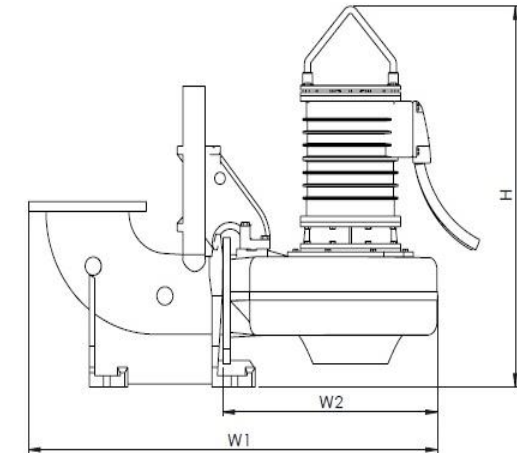
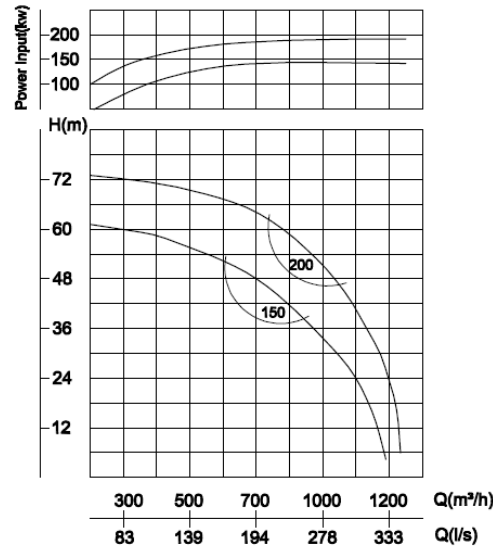
### Options.

Various cable sizes.

### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.

## SS 300/12/200 & SS 250/10/150 Power Input and Performance Data

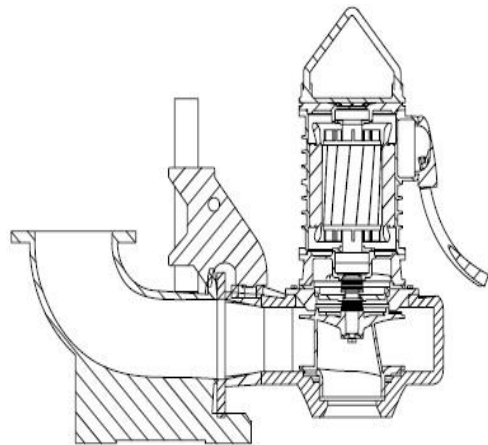


### Applications:

SS 300/12/200 & SS 250/10/150 are used mainly for pumping sewage, waste water and storm water in municipal pump stations, and sludge in sewage treatment plants.

Dimensions							
W <sub>1</sub>	W <sub>1</sub>	W <sub>2</sub>	W <sub>2</sub>	H	H	Weight	
inches	mm	inches	mm	inches	mm	Lbs.	kg
<b>SS 300/12/200</b>							
65	1650	34	865	66	1670	4629	2100
<b>SS 250/10/150</b>							
65	1650	34	865	62	1570	3417	1550

VERSION	KW	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
SS 300/12/200	200	3	380/660	400	800	2(4*35)
SS 250/10/150	150	3	380/660	300	600	2(4*35)



## Sewage Submersible Pumps

Types **SS 850/22/200**  
**SS 860/20/125**  
**SS 700/20/55**

Capacity up to 3000 m<sup>3</sup>/h , heads up to 24 m.



### Specifications

#### >> Motor data

Squirrel cage 3-phase induction motor  
Frequency 50 HZ  
Insulation class H(+180 °C)  
Ingress of protection IP68

Voltage variation  
-continuously running Max ± 5%  
-intermittent running Max ± 10%

Voltage imbalance between phases Max ± 2%  
No. of start/hour Max 10

#### >> Material

Pump housing Cast iron GG25  
Stator housing Stainless steel 304, 316L, Cast iron  
Impeller Stainless steel 304, 316L, Cast iron  
Shaft Stainless steel ANSI 420  
O-ring Viton rubber

#### >> Mechanical face seals

Upper Silicon carbide/Carbon  
Lower Tungsten carbide/Silicon Carbide

#### >> Bearings

Upper Cylindrical roller bearing  
Lower Deep groove ball bearing ,the lower row is angular contact.

Fasteners. Stainless steel ANSI 304.

### Options.

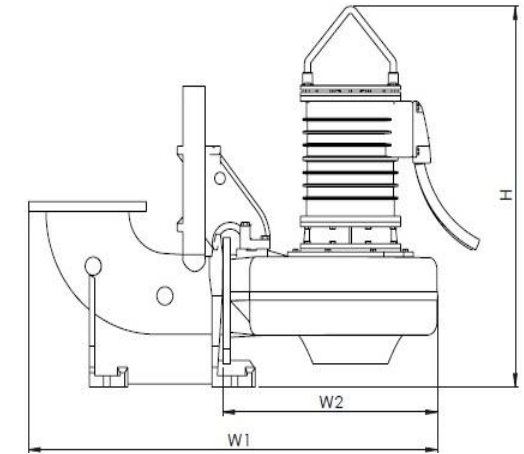
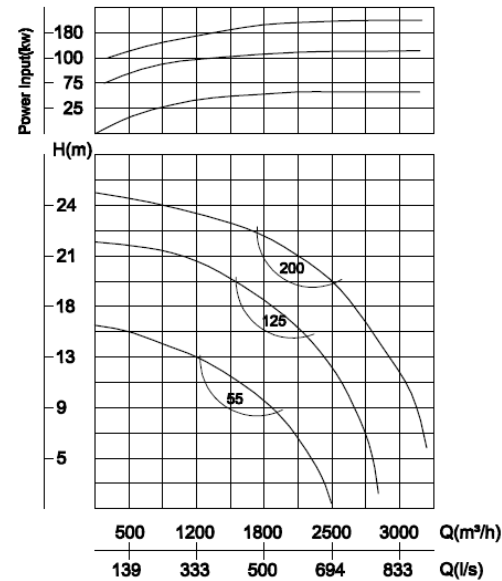
Various cable sizes.

### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.

## SS 850/22/200, SS 860/20/125 & SS 700/20/55

Power Input and Performance Data



### Applications:

SS 850/22/200, SS 860/20/125 & SS 700/20/55 are used mainly for pumping sewage, waste water and storm water in municipal pump stations, and sludge in sewage treatment plants.

Dimensions							
W <sub>1</sub> inches	W <sub>1</sub> mm	W <sub>2</sub> inches	W <sub>2</sub> mm	H inches	H mm	Weight	
						Lbs.	kg
<b>SS 850/22/200</b>							
77	1950	39	1000	70	1770	5070	2300
<b>SS 860/20/125</b>							
77	1950	39	1000	66	1670	3748	1700
<b>SS 700/20/55</b>							
77	1950	39	1000	56	1420	1984	900

VERSION	KW	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
SS 850/22/200	200	3	380/660	400	800	2(4*35)
SS 860/20/125	125	3	380/660	250	500	2(4*35)
SS 700/20/55	55	3	380/660	110	220	2(4*10)

