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to create a better future.

*Hzsolar*

SUBMERSIBLE PUMP  
FOR DEEP-WELL

HZ



Hangzhou Solar Photoelectricity Co,Ltd

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# 2SD

## Applications

For water supply from wells or reservoirs  
For domestic use, for civil and industrial applications  
For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +35°C  
Maximum sand content: 0.25%  
Minimum well diameter: 2"

## Motor and Pump

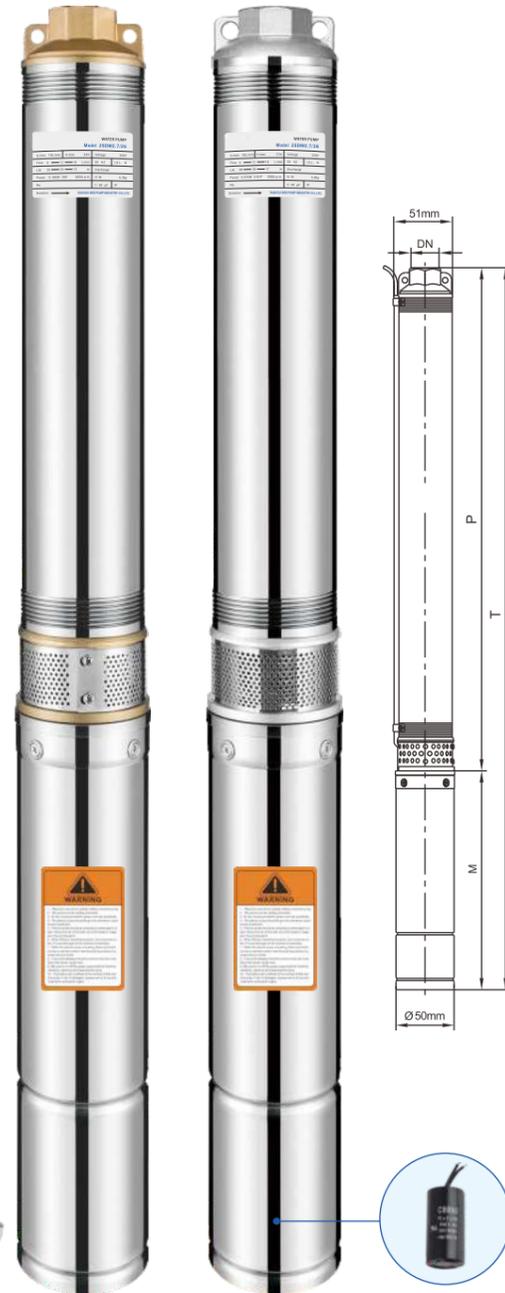
Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
Equip with start control box or digital auto-control box  
Pumps are designed by casing stressed  
Curve tolerance according to ISO 9906

## Options on request

Special mechanical seal  
Other voltages or frequency 60Hz  
Single phase motor with built-in capacitor

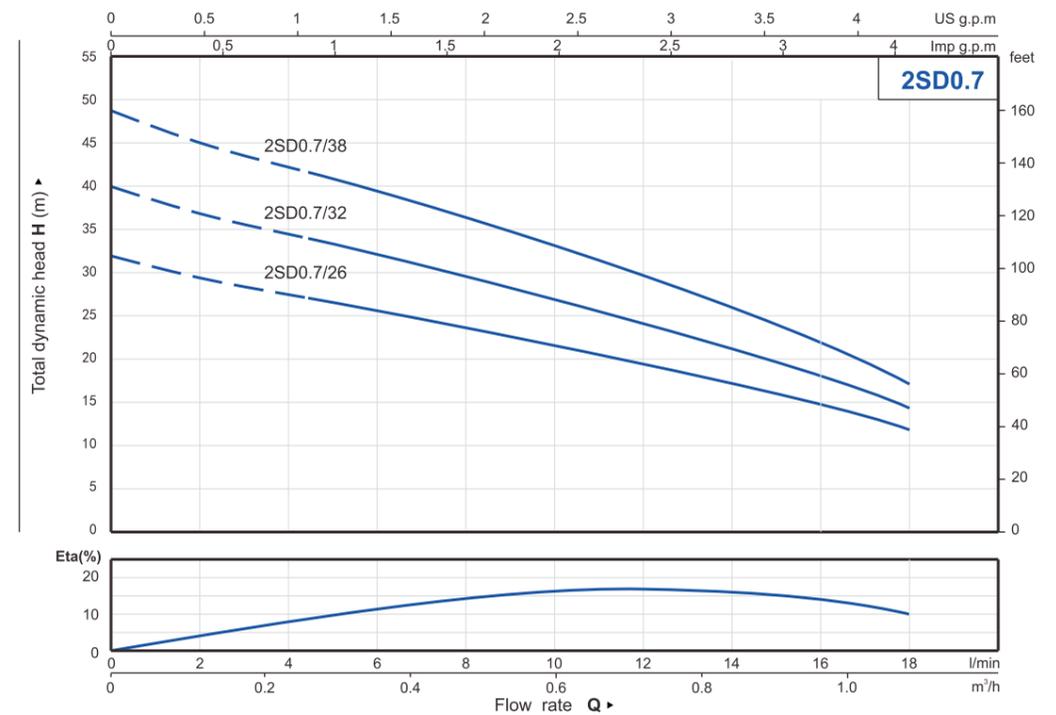
## 2SDM0.7/26(N)

built-in capacitor  
(outboard capacitor with no N marked)  
impeller's number  
capacity (m<sup>3</sup>/h)  
single phase  
pump name  
well Ø2"



Components	Material
Pump external casing	AISI 304 SS
Delivery casing	Cast-Cu ASTM C85500
Suction lantern	Cast-Cu ASTM C85500
Diffuser	Plastic.PC
Impeller	Plastic.POM
Shaft	AISI 304 SS
Shaft coupling	AISI 304 SS
Wear ring	AISI 304 SS

Components	Material
Motor external casing	AISI 304 SS
Top chock	Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Special seal for deep well(Graphite-Ceramic/TC)
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.



## PERFORMANCE DATA 50Hz

MODEL	P <sub>2</sub>		DELIVERY n≈2850 1/min												
	kW	HP	Q	0	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08		
1~ 220 - 240V			m <sup>3</sup> /h l/min	0	2	4	6	8	10	12	14	16	18		
2SDM0.7/26	0.18	0.25	H(m)	33	31	29	27	25	23	21	18	16	12		
2SDM0.7/32	0.25	0.33		40	38	35	33	31	28	25	22	19	14		
2SDM0.7/38	0.37	0.5		48	45	42	39	37	33	30	26	23	17		

## DIMENSION AND WEIGHT

MODEL	DN	DIMENSION(mm)			WEIGHT(kg)		
		P	M	T	P	M	T
1~ 220 - 240V							
2SDM0.7/26	½" / ¾"	746	422	1168	2.0	4.3	6.3
2SDM0.7/32	½" / ¾"	903	422	1325	2.3	4.3	6.6
2SDM0.7/38	½" / ¾"	1039	422	1461	2.6	4.3	6.9

# 2.5SD

## Applications

For water supply from wells or reservoirs  
For domestic use, for civil and industrial applications  
For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +35°C  
Maximum sand content: 0.25%  
Minimum well diameter: 2.5"

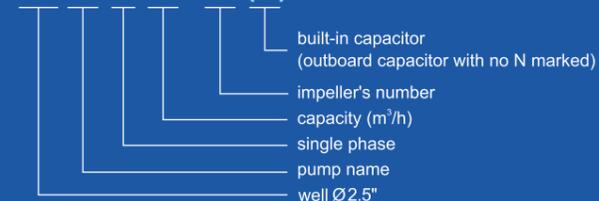
## Motor and Pump

Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
Equip with start control box or digital auto-control box  
Pumps are designed by casing stressed  
Curve tolerance according to ISO 9906

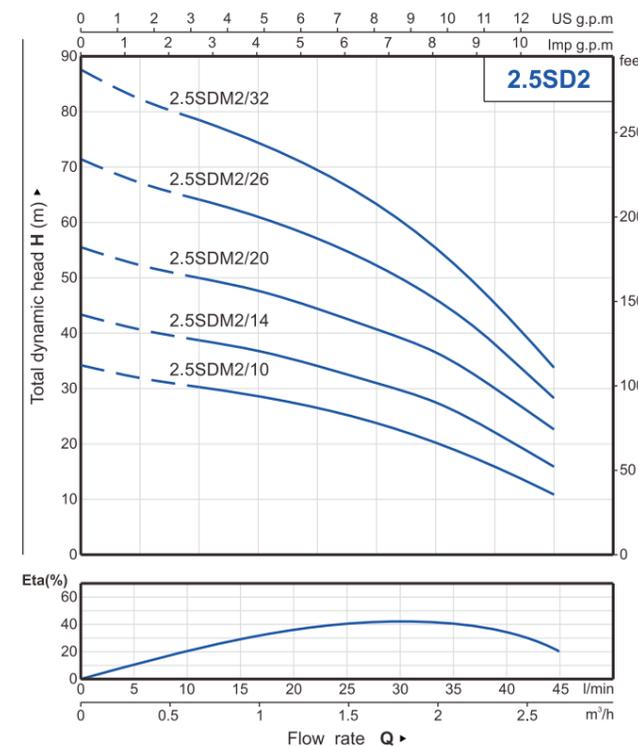
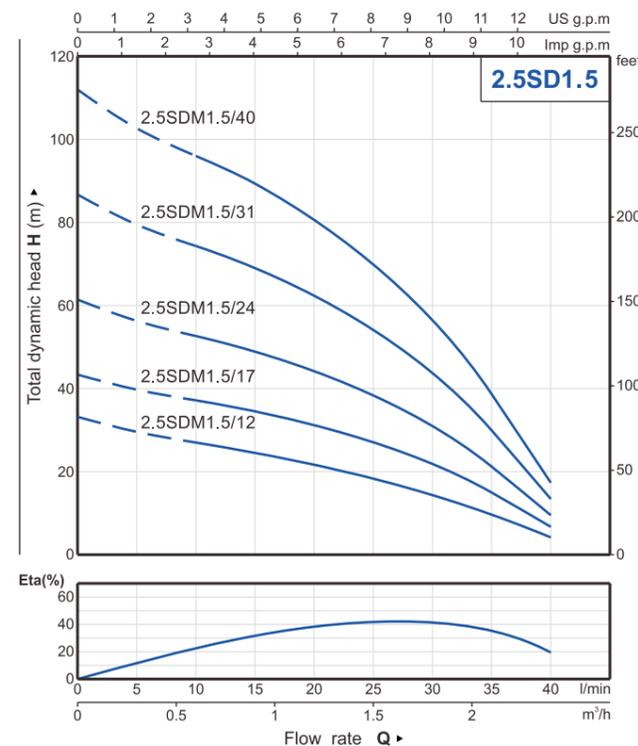
## Options on request

Special mechanical seal  
Other voltages or frequency 60Hz  
Single phase motor with built-in capacitor

## 2.5SD M1.5/12 (N)



Components	Material
Pump external casing	AISI 304 SS
Delivery casing	Cast-Cu ASTM C85500
Suction lantern	Cast-Cu ASTM C85500
Diffuser	Plastic.PC
Impeller	Plastic.POM
Shaft	AISI 304 SS
Shaft coupling	AISI 304 SS
Wear ring	AISI 304 SS
Motor external casing	AISI 304 SS
Top chock	①Cast-Cu ASTM C85500 ②Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Special seal for deep well(Graphite-Ceramic/TC)
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.



## PERFORMANCE DATA 50Hz

MODEL	P <sub>2</sub>		DELIVERY n≈2850 1/min												
	1~ 220 - 240V	kW	HP	Q	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	
				m³/h	0	5	10	15	20	25	30	35	40	45	
2.5SDM1.5/12		0.18	0.25	H(m)	33	30	28	26	23	20	17	11	5	-	
2.5SDM1.5/17		0.25	0.33		46	42	39	37	33	29	24	16	7	-	
2.5SDM1.5/24		0.37	0.5		65	60	56	52	46	40	33	22	10	-	
2.5SDM1.5/31		0.55	0.75		84	77	72	67	60	52	43	29	13	-	
2.5SDM1.5/40		0.75	1		108	99	93	87	77	67	55	37	17	-	
2.5SDM2/10		0.18	0.25		27	26	25	24	23	21	19	17	14	11	
2.5SDM2/14		0.25	0.33		38	37	35	34	32	29	27	24	20	15	
2.5SDM2/20		0.37	0.5		54	53	50	48	45	41	38	34	29	22	
2.5SDM2/26		0.55	0.75		71	68	65	63	59	54	50	44	37	28	
2.5SDM2/32		0.75	1		87	84	80	77	72	66	61	54	46	35	

## DIMENSION AND WEIGHT

MODEL	DN	DIMENSION(mm)			WEIGHT(kg)		
		P	M	T	P	M	T
1~ 220 - 240V							
2.5SDM1.5/12	1"	490	278	768	1.5	6.9	8.4
2.5SDM1.5/17	1"	645	303	948	2.1	7.6	9.7
2.5SDM1.5/24	1"	831	338	1169	3.1	8.2	11.3
2.5SDM1.5/31	1"	1040	388	1428	3.9	8.9	12.8
2.5SDM1.5/40	1"	1279	438	1717	5.1	9.6	14.7
2.5SDM2/10	1"	437	278	716	1.3	6.9	8.2
2.5SDM2/14	1"	565	303	868	1.8	7.6	9.4
2.5SDM2/20	1"	725	338	1063	2.5	8.2	10.7
2.5SDM2/26	1"	885	388	1273	3.3	8.9	12.2
2.5SDM2/32	1"	1066	438	1504	4.1	9.6	13.7

# 3SD/3SE/3SS

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +35°C  
 Maximum sand content: 0.25%  
 Minimum well diameter: 3"

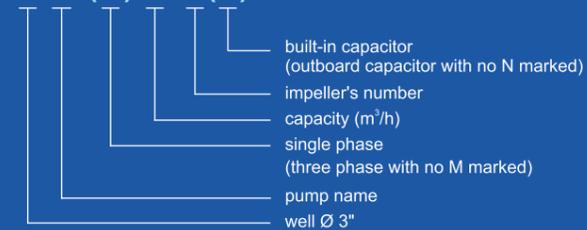
## Motor and Pump

Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
 Equip with start control box or digital auto-control box  
 Pumps are designed by casing stressed  
 Curve tolerance according to ISO 9906

## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz  
 Single phase motor with built-in capacitor

## 3SD(M) 2 / 8(N)

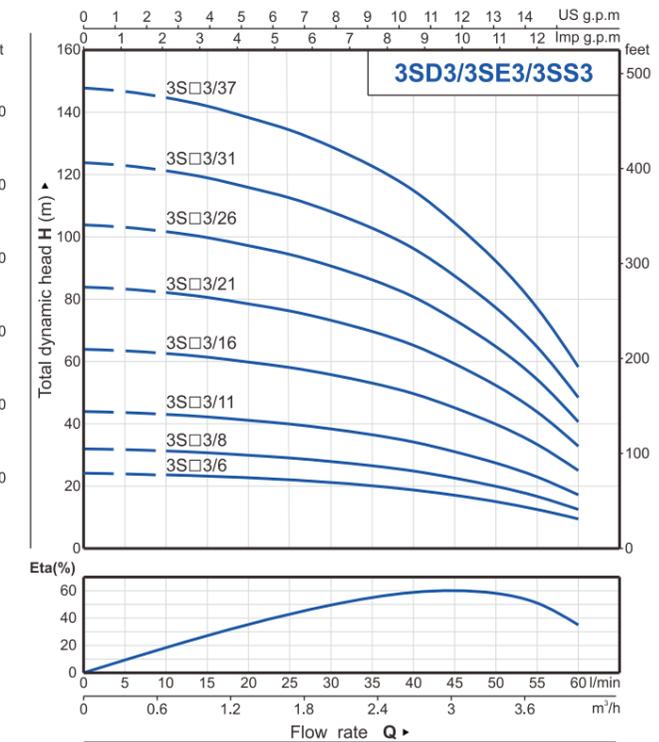
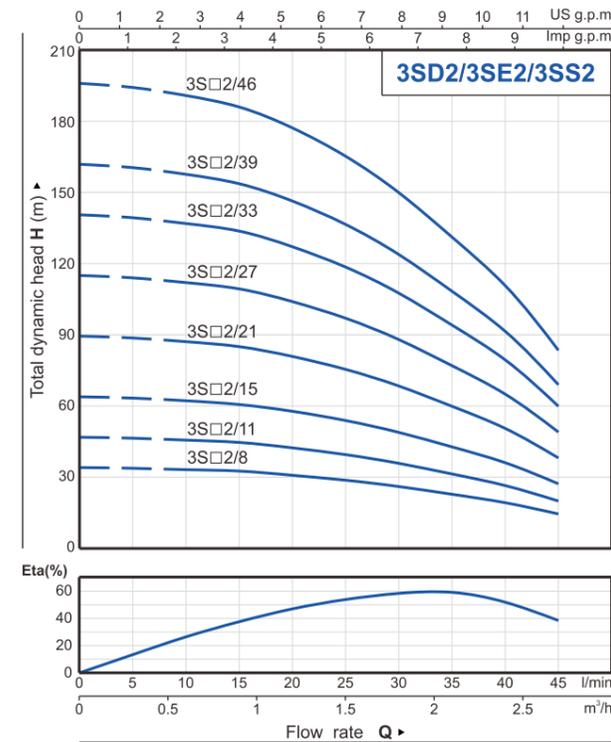


3SD

3SE

3SS

Components	Material
Pump external casing	AISI 304 SS
Delivery casing	① Cast-Cu ASTM C85500 ② AISI 304 SS
Suction lantern	① Cast-Cu ASTM C85500 ② AISI 304 SS
Diffuser	Plastic,PC
Impeller	Plastic,POM
Shaft	AISI 304 SS
Shaft coupling	AISI 304 SS
Wear ring	AISI 304 SS
Motor external casing	AISI 304 SS
Top chock	①Cast-Cu ASTM C85500 ②Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Special seal for deep well(Graphite-Ceramic/TC)
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.



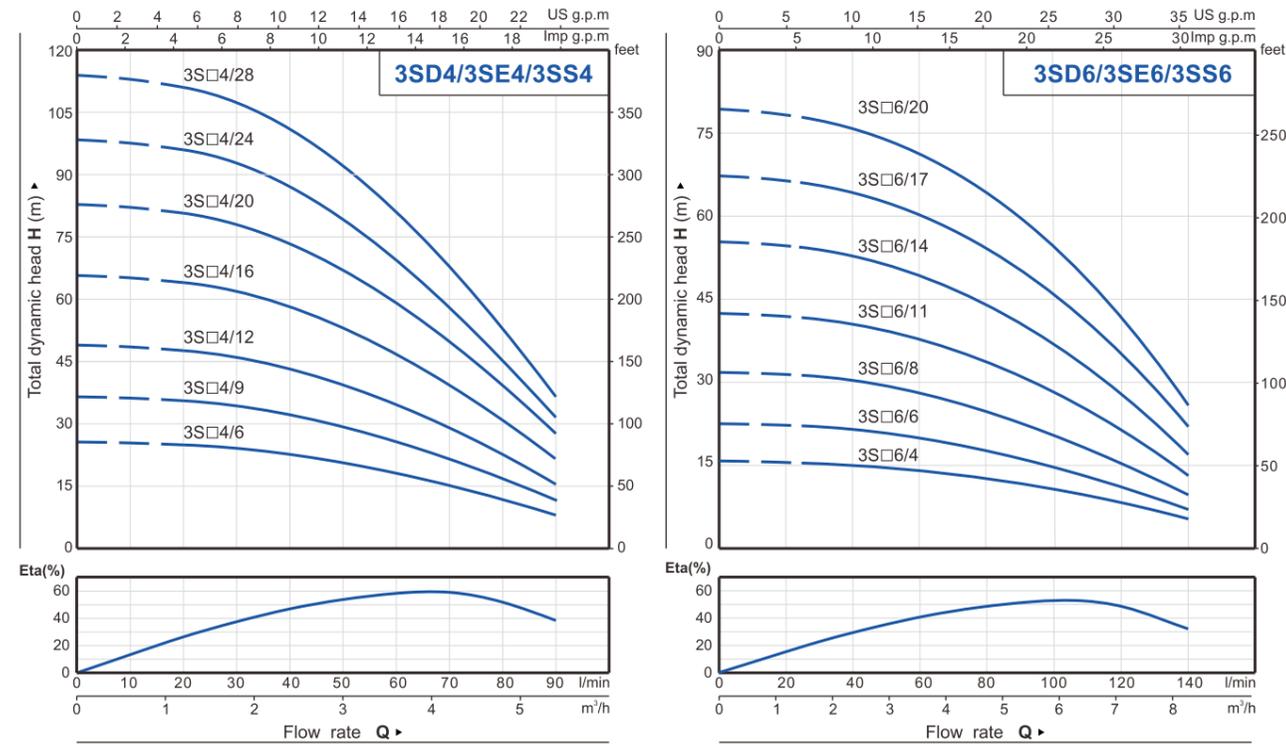
## PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		Q	DELIVERY												
1~ 220 - 240V	3~ 380 - 415V	kW	HP		m <sup>3</sup> /h l/min	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7		
3S□M2/8	3S□2/8	0.18	0.25	H(m)	0	5	10	15	20	25	30	35	40	45			
3S□M2/11	3S□2/11	0.25	0.33		34	34	33	33	31	29	26	23	19	14			
3S□M2/15	3S□2/15	0.37	0.5		47	46	45	45	43	40	36	32	27	20			
3S□M2/21	3S□2/21	0.55	0.75		64	63	62	61	58	54	49	43	36	27			
3S□M2/27	3S□2/27	0.75	1		89	89	87	85	81	76	68	60	51	38			
3S□M2/33	3S□2/33	0.92	1.25		115	114	112	110	104	97	88	77	65	49			
3S□M2/39	3S□2/39	1.1	1.5		141	139	136	134	128	119	108	95	80	60			
3S□M2/46	3S□2/46	1.5	2		166	164	161	159	151	141	127	112	94	70			
					196	194	190	187	178	166	150	132	111	83			

## PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		Q	DELIVERY								
1~ 220 - 240V	3~ 380 - 415V	kW	HP		m <sup>3</sup> /h l/min	0	0.6	1.2	1.8	2.4	3.0	3.6	3.9
3S□M3/6	3S□3/6	0.18	0.25	H(m)	0	10	20	30	40	50	60	65	
3S□M3/8	3S□3/8	0.25	0.33		24	23	22	21	19	15	10	7	
3S□M3/11	3S□3/11	0.37	0.5		32	31	30	28	25	20	13	9	
3S□M3/16	3S□3/16	0.55	0.75		44	43	41	39	35	28	18	12	
3S□M3/21	3S□3/21	0.75	1		64	63	60	57	51	41	26	17	
3S□M3/26	3S□3/26	0.92	1.25		84	82	78	74	67	53	34	23	
3S□M3/31	3S□3/31	1.1	1.5		104	102	97	92	83	66	43	28	
3S□M3/37	3S□3/37	1.5	2		124	121	116	110	99	79	51	34	
					148	145	138	131	118	94	61	40	

• 3S□ in the above table can be replaced by any of 3SD,3SE,3SS



**PERFORMANCE DATA 50Hz**

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min										
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q m³/h l/min	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4
3S□M4/6	3S□4/6	0.25	0.33	H(m)	25	25	24	23	22	21	19	16	13	8
3S□M4/9	3S□4/9	0.37	0.5		37	37	36	35	33	32	28	24	19	12
3S□M4/12	3S□4/12	0.55	0.75		49	49	48	47	45	42	37	32	25	15
3S□M4/16	3S□4/16	0.75	1		66	66	65	62	59	56	50	42	34	21
3S□M4/20	3S□4/20	0.92	1.25		82	82	81	78	74	70	62	53	42	25
3S□M4/24	3S□4/24	1.1	1.5		99	99	97	93	89	84	75	63	51	31
3S□M4/28	3S□4/28	1.5	2		115	115	113	109	104	98	87	74	59	36

**PERFORMANCE DATA 50Hz**

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min								
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q m³/h l/min	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4
3S□M6/4	3S□6/4	0.25	0.33	H(m)	16	16	15	14	12	10	8	5
3S□M6/6	3S□6/6	0.37	0.5		24	23	22	20	18	15	12	8
3S□M6/8	3S□6/8	0.55	0.75		32	31	30	27	24	20	16	10
3S□M6/11	3S□6/11	0.75	1		43	43	41	37	33	28	22	14
3S□M6/14	3S□6/14	0.92	1.25		55	55	52	48	42	36	28	18
3S□M6/17	3S□6/17	1.1	1.5		67	66	63	58	51	43	34	21
3S□M6/20	3S□6/20	1.5	2		79	78	74	68	60	51	40	25

• 3S□ in the above table can be replaced by any of 3SD,3SE,3SS

**DIMENSION AND WEIGHT**

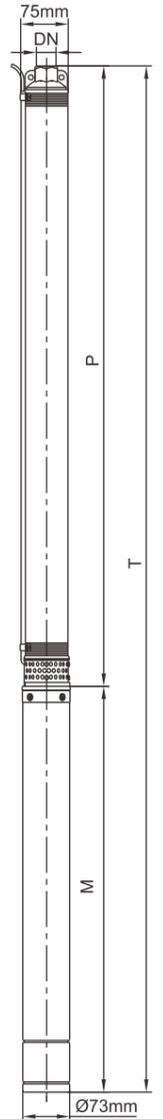
MODEL		DN	DIMENSION(mm)					WEIGHT(kg)				
1~ 220 - 240V	3~ 380 - 415V		P	M(s)	M(T)	T(s)	T(T)	P	M(s)	M(T)	T(s)	T(T)
3S□M2/8	3S□2/8	1"1/4"1/2"	378	281	281	659	659	1.9	4.0	4.0	5.9	5.9
3S□M2/11	3S□2/11	1"1/4"1/2"	447	301	301	748	748	2.2	4.8	4.0	7.0	6.2
3S□M2/15	3S□2/15	1"1/4"1/2"	539	331	331	870	870	2.6	5.6	4.8	8.2	7.4
3S□M2/21	3S□2/21	1"1/4"1/2"	701	361	361	1062	1062	3.3	6.4	5.6	9.7	8.9
3S□M2/27	3S□2/27	1"1/4"1/2"	839	401	401	1240	1240	3.8	7.5	6.4	11.3	10.2
3S□M2/33	3S□2/33	1"1/4"1/2"	1001	441	441	1442	1442	4.6	8.7	7.5	13.3	12.1
3S□M2/39	3S□2/39	1"1/4"1/2"	1116	486	486	1602	1602	5.3	10.0	8.7	15.3	14.0
3S□M2/46	3S□2/46	1"1/4"1/2"	1324	536	536	1860	1860	6.1	11.3	10.0	17.4	16.1

MODEL		DN	DIMENSION(mm)					WEIGHT(kg)				
1~ 220 - 240V	3~ 380 - 415V		P	M(s)	M(T)	T(s)	T(T)	P	M(s)	M(T)	T(s)	T(T)
3S□M3/6	3S□3/6	1"1/4"1/2"	350	281	281	631	631	1.6	4.8	4.0	6.4	5.6
3S□M3/8	3S□3/8	1"1/4"1/2"	402	301	301	703	703	1.9	4.8	4.0	6.7	5.9
3S□M3/11	3S□3/11	1"1/4"1/2"	480	331	331	811	811	2.2	5.6	4.8	7.8	7.0
3S□M3/16	3S□3/16	1"1/4"1/2"	634	361	361	995	995	2.8	6.4	5.6	9.2	8.4
3S□M3/21	3S□3/21	1"1/4"1/2"	764	401	401	1165	1165	3.4	7.5	6.4	10.9	9.8
3S□M3/26	3S□3/26	1"1/4"1/2"	894	441	441	1335	1335	3.9	8.7	6.4	12.6	10.3
3S□M3/31	3S□3/31	1"1/4"1/2"	1048	486	486	1534	1534	4.6	10.0	7.5	14.6	12.1
3S□M3/37	3S□3/37	1"1/4"1/2"	1204	536	536	1740	1740	5.2	11.3	10.0	16.5	15.2

MODEL		DN	DIMENSION(mm)					WEIGHT(kg)				
1~ 220 - 240V	3~ 380 - 415V		P	M(s)	M(T)	T(s)	T(T)	P	M(s)	M(T)	T(s)	T(T)
3S□M4/6	3S□4/6	1"1/4"1/2"	382	301	301	683	683	1.5	4.8	4.0	6.3	5.5
3S□M4/9	3S□4/9	1"1/4"1/2"	477	331	331	808	808	2.0	5.6	4.8	7.6	6.8
3S□M4/12	3S□4/12	1"1/4"1/2"	596	361	361	957	957	2.4	6.4	5.6	8.8	8.0
3S□M4/16	3S□4/16	1"1/4"1/2"	722	401	401	1123	1123	3.0	7.5	6.4	10.5	9.4
3S□M4/20	3S□4/20	1"1/4"1/2"	848	441	441	1289	1289	3.5	8.7	7.5	12.2	11.0
3S□M4/24	3S□4/24	1"1/4"1/2"	998	486	486	1484	1484	4.1	10.0	8.7	14.1	12.8
3S□M4/28	3S□4/28	1"1/4"1/2"	1124	536	536	1660	1660	4.7	11.3	10.0	16.0	14.7

MODEL		DN	DIMENSION(mm)					WEIGHT(kg)				
1~ 220 - 240V	3~ 380 - 415V		P	M(s)	M(T)	T(s)	T(T)	P	M(s)	M(T)	T(s)	T(T)
3S□M6/4	3S□6/4	1"1/4"1/2"	335	301	301	636	636	1.3	4.8	4.0	6.1	5.3
3S□M6/6	3S□6/6	1"1/4"1/2"	401	331	331	732	732	1.6	5.6	4.8	7.2	6.4
3S□M6/8	3S□6/8	1"1/4"1/2"	466	361	361	827	827	2.0	6.4	5.6	8.4	7.6
3S□M6/11	3S□6/11	1"1/4"1/2"	565	401	401	966	966	2.3	7.5	6.4	9.8	8.7
3S□M6/14	3S□6/14	1"1/4"1/2"	687	441	441	1272	1272	2.8	8.7	7.5	11.5	10.3
3S□M6/17	3S□6/17	1"1/4"1/2"	786	486	486	1272	1272	3.2	10.0	8.7	13.2	11.9
3S□M6/20	3S□6/20	1"1/4"1/2"	884	536	536	1420	1420	3.6	11.3	10.0	14.9	13.6

• M(s) is single phase motor, M(T) is three phase motor.  
• T(s) is single phase motor, T(T) is three phase motor.



# 3.5SD/3.5SS/3.5SA

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +35°C  
 Maximum sand content: 0.25%  
 Minimum well diameter: 3.5"

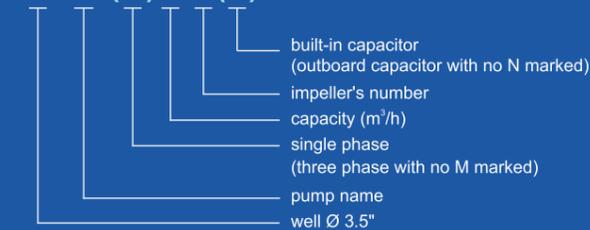
## Motor and Pump

Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
 Equip with start control box or digital auto-control box  
 Pumps are designed by casing stressed  
 Curve tolerance according to ISO 9906

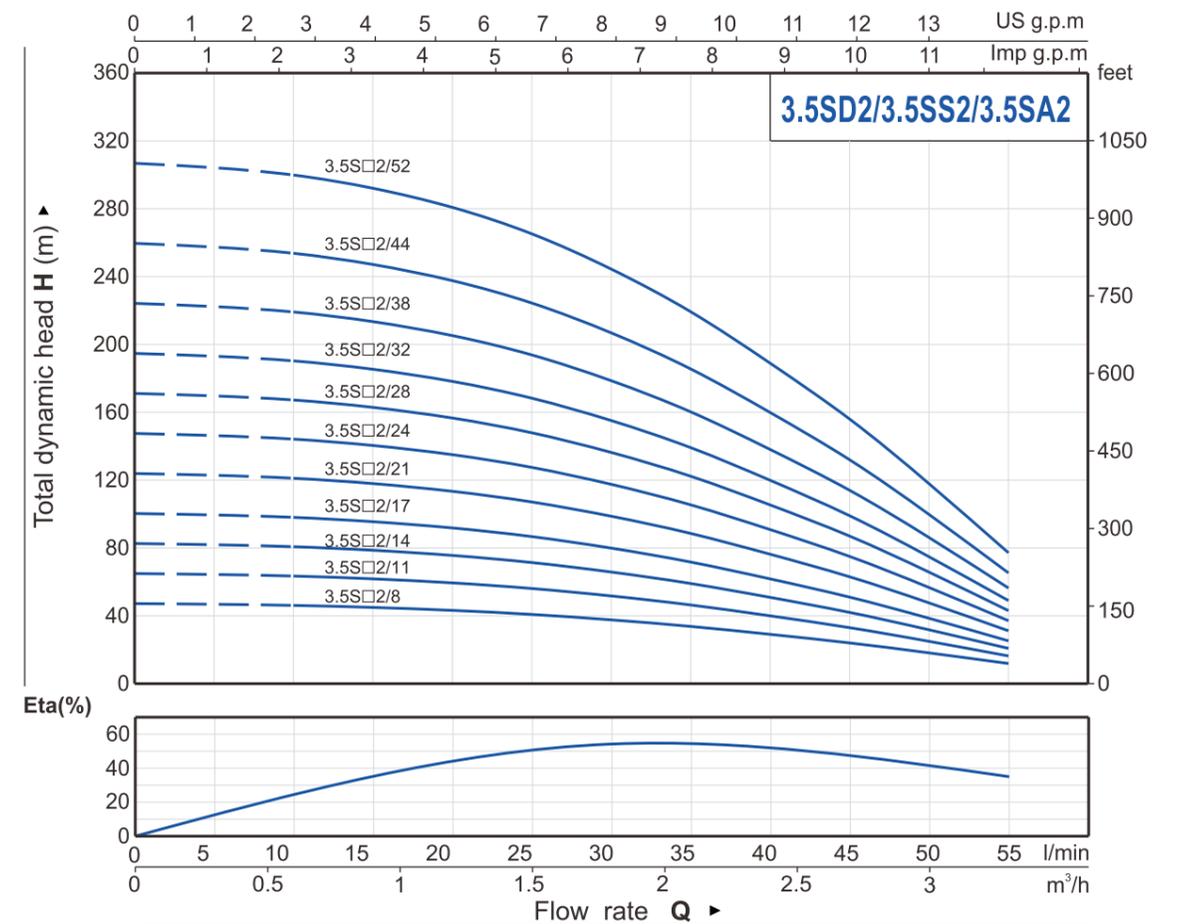
## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz  
 Single phase motor with built-in capacitor

## 3.5SD(M) 2/8(N)



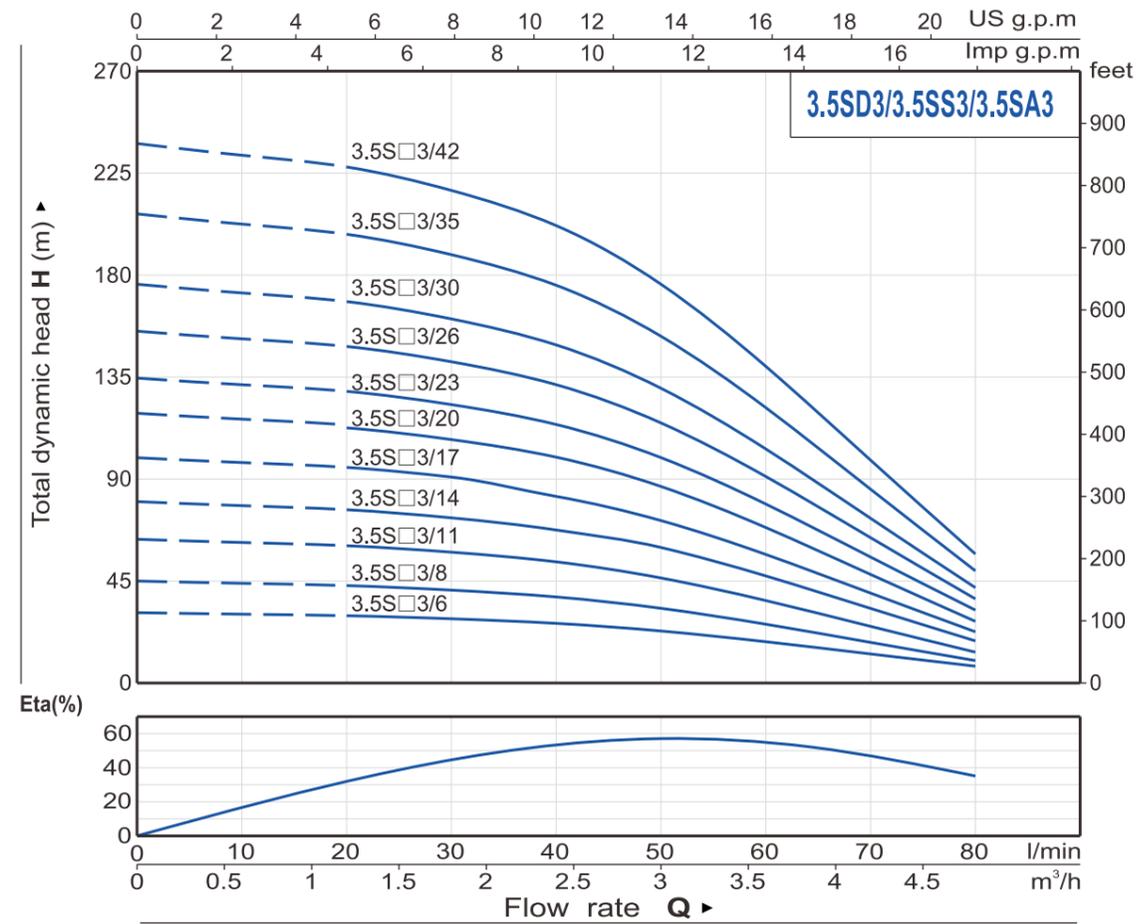
Components	Material
Pump external casing	AISI 304 SS
Delivery casing	① Cast-Cu ASTM C85500 ② AISI 304 SS
Suction lantern	① Cast-Cu ASTM C85500 ② AISI 304 SS
Diffuser	Plastic.PC
Impeller	Plastic.POM
Shaft	AISI 304 SS
Shaft coupling	AISI 304 SS
Wear ring	AISI 304 SS
Motor external casing	AISI 304 SS
Top chock	①Cast-Cu ASTM C85500 ③Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Special seal for deep well(Graphite-Ceramic)
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.



## PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		DELIVERY														
1~ 220 - 240V	3~ 380 - 415V	kW	HP	n≈2850 1/min														
				Q	H(m)													
				m <sup>3</sup> /h l/min	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3		
					0	5	10	15	20	25	30	35	40	45	50	55		
3.5S□M2/8	3.5S□2/8	0.25	0.33	H(m)	47	47	46	45	43	41	38	34	29	24	18	12		
3.5S□M2/11	3.5S□2/11	0.37	0.5		65	64	63	62	59	56	52	46	40	33	25	16		
3.5S□M2/14	3.5S□2/14	0.55	0.75		83	82	81	79	76	71	66	59	51	42	32	21		
3.5S□M2/17	3.5S□2/17	0.75	1		100	99	98	95	92	87	80	72	62	51	39	25		
3.5S□M2/21	3.5S□2/21	0.92	1.25		124	123	121	118	113	107	99	89	76	63	48	31		
3.5S□M2/24	3.5S□2/24	1.1	1.5		142	140	138	135	130	122	113	101	87	72	54	36		
3.5S□M2/28	3.5S□2/28	1.3	1.75		165	164	161	157	15	143	132	118	102	84	63	42		
3.5S□M2/32	3.5S□2/32	1.5	2		189	187	185	180	173	163	150	135	116	96	73	47		
3.5S□M2/38	3.5S□2/38	1.8	2.5		224	222	219	213	205	194	179	160	138	114	86	56		
-	3.5S□2/44	2.2	3		260	257	254	247	238	224	207	186	160	132	100	65		
-	3.5S□2/52	3	4		307	304	300	292	281	265	244	219	189	156	118	77		

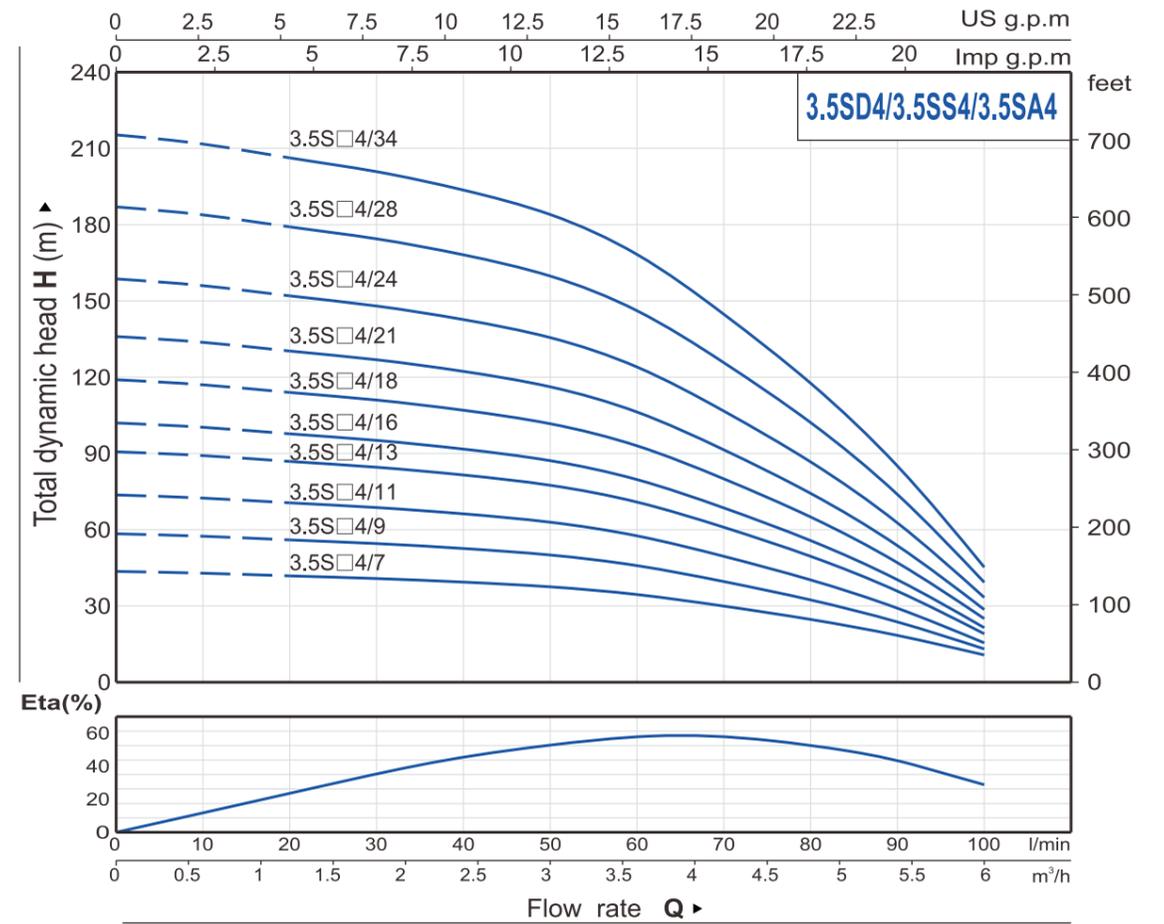
•3.5S□ in the above table can be replaced by any of 3.5SD,3.5SS,3.5SA



PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		DELIVERY									
1~ 220 - 240V	3~ 380 - 415V	kW	HP	n≈2850 1/min									
				Q	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8
				m <sup>3</sup> /h l/min	0	10	20	30	40	50	60	70	80
3.5S□M3/6	3.5S□3/6	0.25	0.33	H(m)	35	34	33	32	29	26	20	14	8
3.5S□M3/8	3.5S□3/8	0.37	0.5		46	45	44	42	39	34	27	19	11
3.5S□M3/11	3.5S□3/11	0.55	0.75		63	62	61	58	54	47	37	26	15
3.5S□M3/14	3.5S□3/14	0.75	1		81	79	77	74	68	60	47	33	19
3.5S□M3/17	3.5S□3/17	0.92	1.25		98	96	94	89	83	72	57	40	23
3.5S□M3/20	3.5S□3/20	1.1	1.5		115	113	110	105	98	85	68	48	28
3.5S□M3/23	3.5S□3/23	1.3	1.75		132	129	127	121	112	98	78	55	32
3.5S□M3/26	3.5S□3/26	1.5	2		150	146	143	137	127	111	88	62	36
3.5S□M3/30	3.5S□3/30	1.8	2.5		173	169	165	158	146	128	101	71	41
-	3.5S□3/35	2.2	3		202	197	193	184	170	149	118	83	48
-	3.5S□3/42	3	4		242	236	231	221	205	179	142	100	58

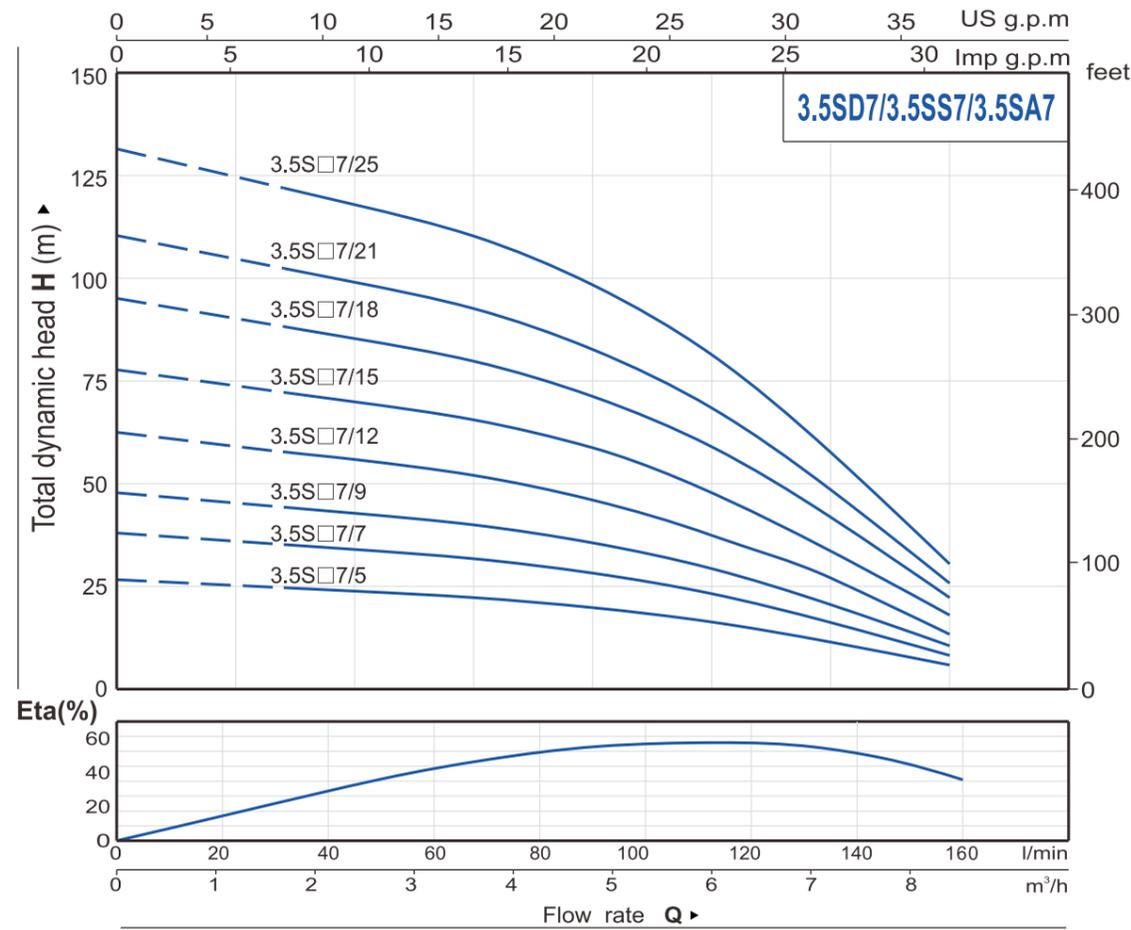
•3.5S□ in the above table can be replaced by any of 3.5SD,3.5SS,3.5SA



PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		DELIVERY											
1~ 220 - 240V	3~ 380 - 415V	kW	HP	n≈2850 1/min											
				Q	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0
				m <sup>3</sup> /h l/min	0	10	20	30	40	50	60	70	80	90	100
3.5S□M4/7	3.5S□4/7	0.37	0.5	H(m)	40	39	38	37	35	34	31	27	22	16	9
3.5S□M4/9	3.5S□4/9	0.55	0.75		51	50	49	48	45	44	40	34	28	20	11
3.5S□M4/11	3.5S□4/11	0.75	1		62	61	60	58	56	53	49	42	34	24	14
3.5S□M4/13	3.5S□4/13	0.92	1.25		73	72	71	69	66	63	58	50	40	29	17
3.5S□M4/16	3.5S□4/16	1.1	1.5		90	89	87	85	81	78	71	61	50	36	20
3.5S□M4/18	3.5S□4/18	1.3	1.75		102	100	98	95	91	87	80	69	56	40	23
3.5S□M4/21	3.5S□4/21	1.5	2		119	117	114	111	106	102	93	80	65	47	27
3.5S□M4/24	3.5S□4/24	1.8	2.5		136	134	130	127	121	116	106	92	74	53	31
-	3.5S□4/28	2.2	3		158	156	152	148	141	136	124	107	87	62	36
-	3.5S□4/34	3	4		192	190	184	180	172	165	150	130	105	76	43

•3.5S□ in the above table can be replaced by any of 3.5SD,3.5SS,3.5SA



**PERFORMANCE DATA 50Hz**

MODEL		P <sub>2</sub>		DELIVERY										
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q	n≈2850 1/min									
					m³/h	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6
3.5S□M7/5	3.5S□7/5	0.37	0.5	H(m)	0	20	40	60	80	100	120	140	160	
3.5S□M7/7	3.5S□7/7	0.55	0.75		26	25	24	22	20	18	15	11	7	
3.5S□M7/9	3.5S□7/9	0.75	1		37	35	34	31	28	25	21	16	10	
3.5S□M7/12	3.5S□7/12	1.1	1.5		47	46	43	40	37	32	27	20	12	
3.5S□M7/15	3.5S□7/15	1.5	2		63	61	58	54	49	43	36	27	16	
3.5S□M7/18	3.5S□7/18	1.8	2.5		79	76	72	67	61	53	44	34	20	
-	3.5S□7/21	2.2	3		95	91	87	81	73	64	53	41	25	
-	3.5S□7/25	3	4		111	106	102	94	85	75	62	48	29	
					132	127	121	113	102	89	74	57	34	

•3.5S□ in the above table can be replaced by any of 3.5SD,3.5SS,3.5SA

**DIMENSION AND WEIGHT**

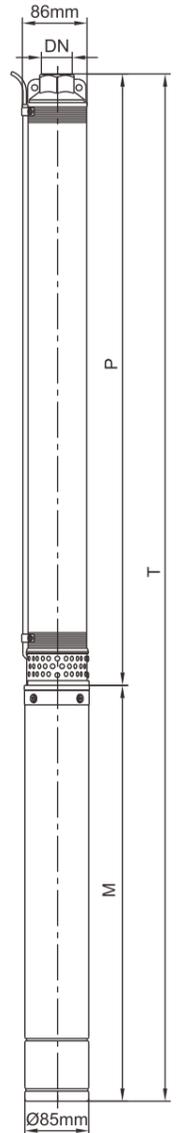
MODEL		DN	DIMENSION(mm)					WEIGHT(kg)				
1~ 220 - 240V	3~ 380 - 415V		P	M(S)	M(T)	T(S)	T(T)	P	M(S)	M(T)	T(S)	T(T)
3.5S□M2/8	3.5S□2/8	1¼"/1½"	397	288	278	685	675	2.4	5.4	5.4	7.8	7.8
3.5S□M2/11	3.5S□2/11	1¼"/1½"	468	303	288	771	756	2.9	6.0	5.4	8.9	8.3
3.5S□M2/14	3.5S□2/14	1¼"/1½"	538	323	303	861	841	3.3	6.7	6.0	10.0	9.3
3.5S□M2/17	3.5S□2/17	1¼"/1½"	635	348	323	983	958	3.8	7.7	6.7	11.5	10.5
3.5S□M2/21	3.5S□2/21	1¼"/1½"	729	373	348	1102	1077	4.3	8.7	7.7	13.0	12.0
3.5S□M2/24	3.5S□2/24	1¼"/1½"	824	398	373	1222	1197	4.8	9.6	8.7	14.4	13.5
3.5S□M2/28	3.5S□2/28	1¼"/1½"	918	423	398	1341	1316	5.3	10.6	9.6	15.9	14.9
3.5S□M2/32	3.5S□2/32	1¼"/1½"	1038	448	423	1486	1461	6.0	11.6	10.6	17.6	16.6
3.5S□M2/38	3.5S□2/38	1¼"/1½"	1156	478	448	1634	1604	6.8	12.8	11.6	19.6	18.4
-	3.5S□2/44	1¼"/1½"	1297	-	478	-	1775	7.6	-	12.8	-	20.4
-	3.5S□2/52	1¼"/1½"	1512	-	556	-	2068	8.8	-	16.0	-	24.8

3.5S□M3/6	3.5S□3/6	1¼"/1½"	365	288	278	653	643	2.1	5.4	5.4	7.5	7.5
3.5S□M3/8	3.5S□3/8	1¼"/1½"	417	303	288	720	705	2.4	6.0	5.4	8.4	7.8
3.5S□M3/11	3.5S□3/11	1¼"/1½"	496	323	303	819	799	2.9	6.7	6.0	9.6	8.9
3.5S□M3/14	3.5S□3/14	1¼"/1½"	575	348	323	923	898	3.3	7.7	6.7	11.0	10.0
3.5S□M3/17	3.5S□3/17	1¼"/1½"	679	373	348	1052	1027	3.9	8.7	7.7	12.6	11.6
3.5S□M3/20	3.5S□3/20	1¼"/1½"	758	398	373	1156	1131	4.4	9.6	8.7	14.0	13.1
3.5S□M3/23	3.5S□3/23	1¼"/1½"	836	423	398	1259	1234	4.8	10.6	9.6	15.4	14.4
3.5S□M3/26	3.5S□3/26	1¼"/1½"	915	448	423	1363	1338	5.3	11.6	10.6	16.9	15.9
3.5S□M3/30	3.5S□3/30	1¼"/1½"	1020	478	448	1498	1468	6.0	12.8	11.6	18.8	17.6
-	3.5S□3/35	1¼"/1½"	1176	-	478	-	1654	6.7	-	12.8	-	19.5
-	3.5S□3/42	1¼"/1½"	1385	-	556	-	1941	7.9	-	16.0	-	23.9

3.5S□M4/7	3.5S□4/7	1¼"/1½"	408	303	288	711	696	2.4	6.0	5.4	8.4	7.8
3.5S□M4/9	3.5S□4/9	1¼"/1½"	465	323	303	788	768	2.7	6.7	6.0	9.4	8.7
3.5S□M4/11	3.5S□4/11	1¼"/1½"	523	348	323	871	846	3.1	7.7	6.7	10.8	9.8
3.5S□M4/13	3.5S□4/13	1¼"/1½"	580	373	348	953	928	3.4	8.7	7.7	12.1	11.1
3.5S□M4/16	3.5S□4/16	1¼"/1½"	691	398	373	1089	1089	4.0	9.6	8.7	13.6	12.7
3.5S□M4/18	3.5S□4/18	1¼"/1½"	748	423	398	1171	1064	4.3	10.6	9.6	14.9	13.9
3.5S□M4/21	3.5S□4/21	1¼"/1½"	834	448	423	1282	1257	4.8	11.6	10.6	16.4	15.4
3.5S□M4/24	3.5S□4/24	1¼"/1½"	920	478	448	1398	1368	5.3	12.8	11.6	18.1	16.9
-	3.5S□4/28	1¼"/1½"	1057	-	478	-	1535	6.0	-	12.8	-	18.8
-	3.5S□4/34	1¼"/1½"	1231	-	556	-	1787	7.0	-	16.0	-	23.0

3.5S□M7/5	3.5S□7/5	1¼"/1½"	373	303	288	676	661	1.8	6.0	5.4	7.8	7.2
3.5S□M7/7	3.5S□7/7	1¼"/1½"	439	323	303	762	742	2.5	6.7	6.0	9.2	8.5
3.5S□M7/9	3.5S□7/9	1¼"/1½"	505	348	323	853	828	3.2	7.7	6.7	10.9	9.9
3.5S□M7/12	3.5S□7/12	1¼"/1½"	631	398	373	1029	1004	4.3	9.6	8.7	13.9	13.0
3.5S□M7/15	3.5S□7/15	1¼"/1½"	730	448	423	1178	1153	5.4	11.6	10.6	17.0	16.0
3.5S□M7/18	3.5S□7/18	1¼"/1½"	829	478	448	1307	1277	6.5	12.8	11.6	19.3	18.1
-	3.5S□7/21	1¼"/1½"	929	-	478	-	1407	7.6	-	12.8	-	20.4
-	3.5S□7/25	1¼"/1½"	1087	-	556	-	1643	9.0	-	16.0	-	25.0

- M(S) is single phase motor, M(T) is three phase motor.
- T(S) is single phase motor, T(T) is three phase motor.



# 4SD/4SE/4SS/4SA

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +35°C  
 Maximum sand content: 0.25%  
 Minimum well diameter: 4"

## Motor and Pump

Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
 Equip with start control box or digital auto-control box  
 Pumps are designed by casing stressed  
**NEMA** dimension standards  
 Curve tolerance according to ISO 9906

## Options on request

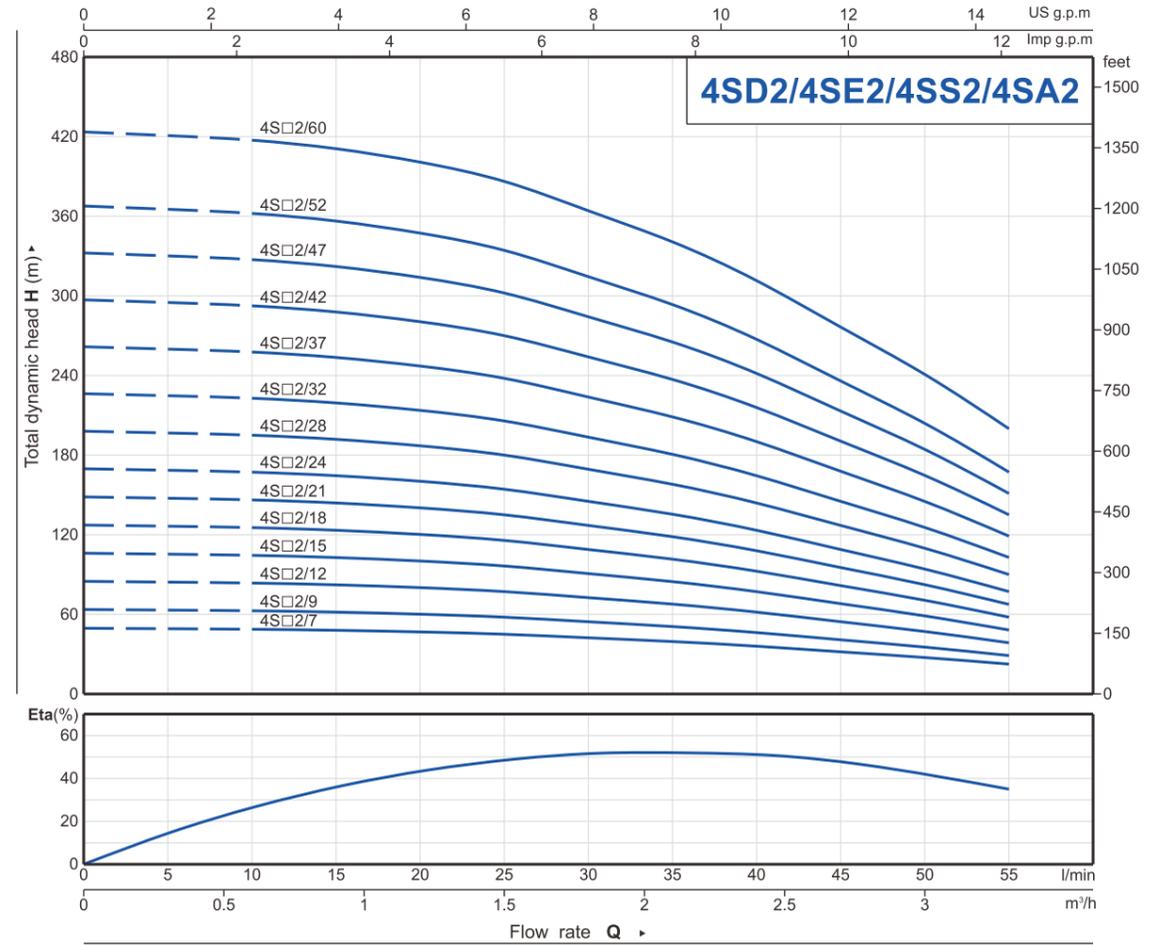
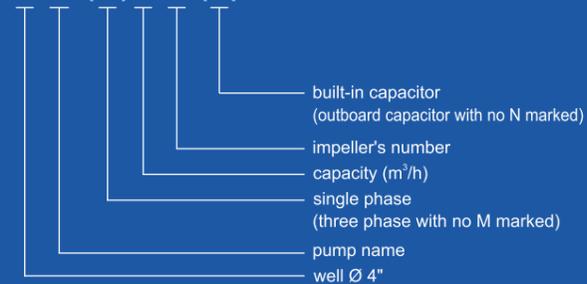
Special mechanical seal  
 Other voltages or frequency 60Hz  
 Single phase motor with built-in capacitor



**4SD      4SE      4SS      4SA**

Components	Material
Pump external casing	AISI 304 SS
Delivery casing	① Cast-Cu ASTM C85500 ② AISI 304 SS
Suction lantern	① Cast-Cu ASTM C85500 ② AISI 304 SS
Diffuser	Plastic.PC
Impeller	① Plastic.POM ② Plastic.PPO
Shaft	AISI 304 SS
Shaft coupling	AISI 304 SS
Wear ring	AISI 304 SS
Motor external casing	AISI 304 SS
Top chock	①Cast-Cu ASTM C85500 ②AISI 304 SS ③Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Special seal for deep well(Graphite-Ceramic)
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.

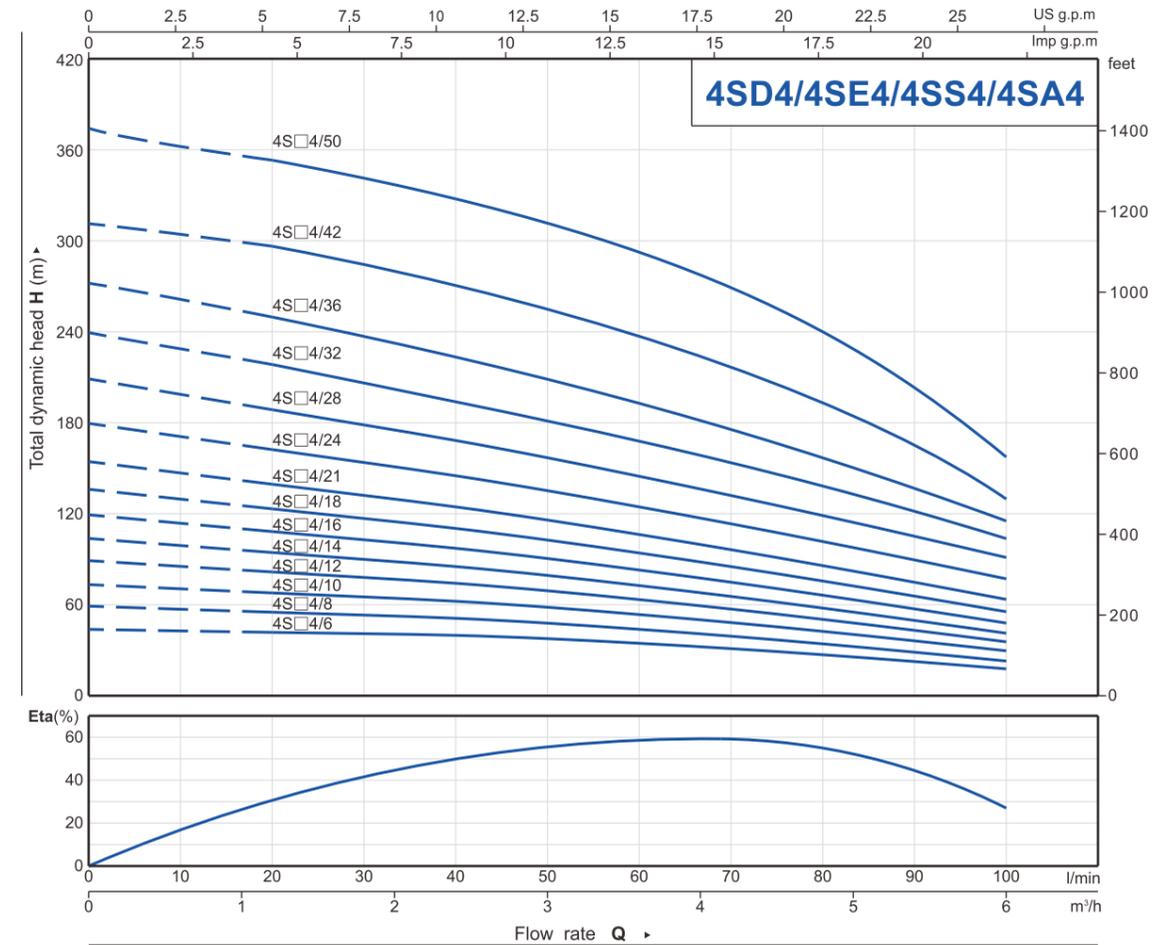
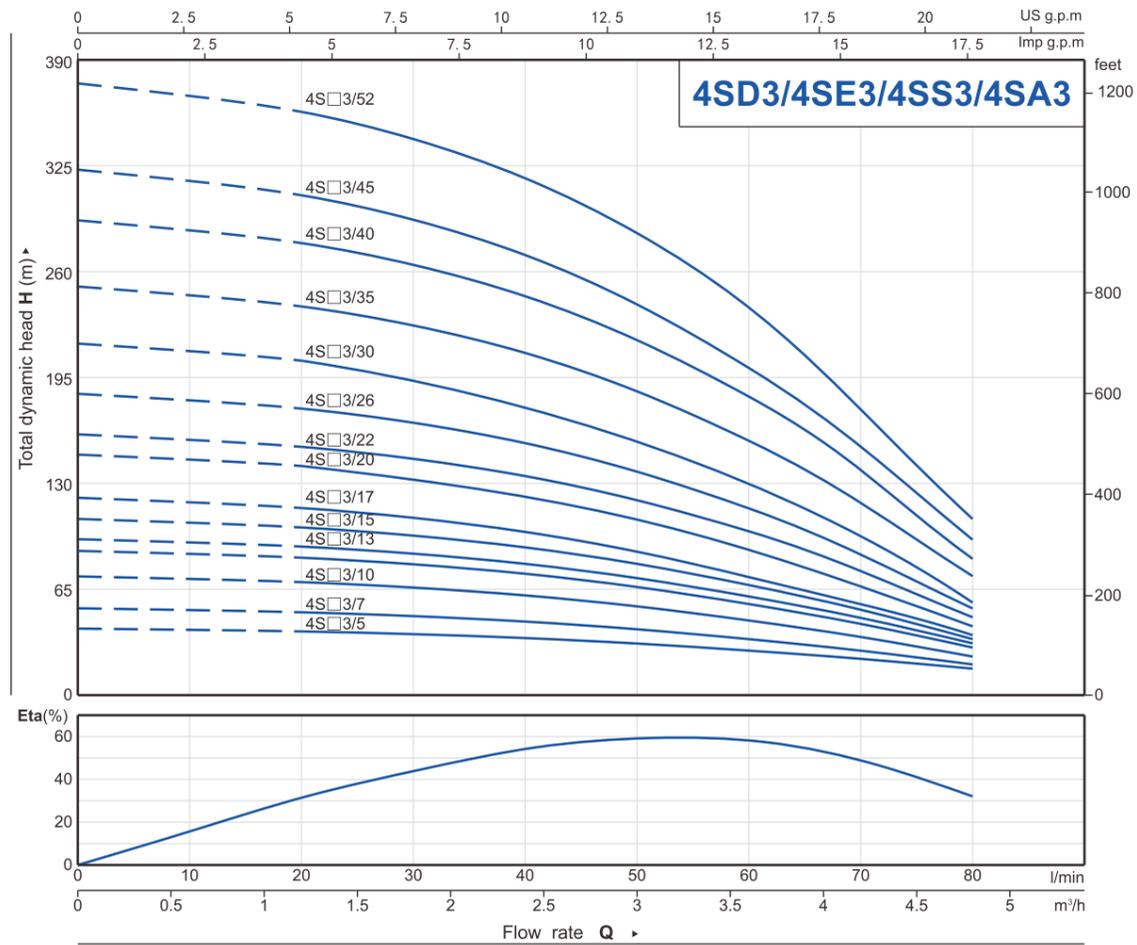
## 4 SD(M) 2/7 (N)



## PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		DELIVERY													
1~	3~	kW	HP	Q	n≈2850 1/min												
220 - 240V	380 - 415V				0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	
				m³/h	0	5	10	15	20	25	30	35	40	45	50	55	
4S□M2/7	4S□2/7	0.25	0.33	H(m)	50	49	49	48	47	45	42	39	36	32	27	22	
4S□M2/9	4S□2/9	0.37	0.5		64	63	63	62	60	58	54	51	47	41	35	29	
4S□M2/12	4S□2/12	0.55	0.75		85	84	84	83	80	77	72	68	62	54	47	38	
4S□M2/15	4S□2/15	0.75	1		106	105	105	103	100	96	90	85	78	68	59	48	
4S□M2/18	4S□2/18	0.92	1.25		127	126	125	124	120	116	108	102	93	82	71	58	
4S□M2/21	4S□2/21	1.1	1.5		149	147	146	145	140	135	126	118	109	95	82	67	
4S□M2/24	4S□2/24	1.3	1.75		170	168	167	165	160	154	144	135	124	109	94	77	
4S□M2/28	4S□2/28	1.5	2		198	196	195	193	187	180	168	158	145	127	110	90	
4S□M2/32	4S□2/32	1.8	2.5		227	224	223	221	214	206	192	181	166	145	126	103	
4S□M2/37	4S□2/37	2.2	3		262	259	258	255	247	238	222	209	191	168	145	119	
4S□M2/42	4S□2/42	2.6	3.5		297	294	293	289	280	270	252	237	217	190	165	135	
4S□M2/47	4S□2/47	3	4		333	329	328	324	314	302	282	265	243	213	184	151	
-	4S□2/52	3.7	5		368	364	362	358	347	334	312	293	269	236	204	167	
-	4S□2/60	4	5.5		425	422	418	412	400	385	360	338	308	274	235	193	

• 4S□ in the above table can be replaced by any of 4SD, 4SE, 4SS, 4SA



**PERFORMANCE DATA 50Hz**

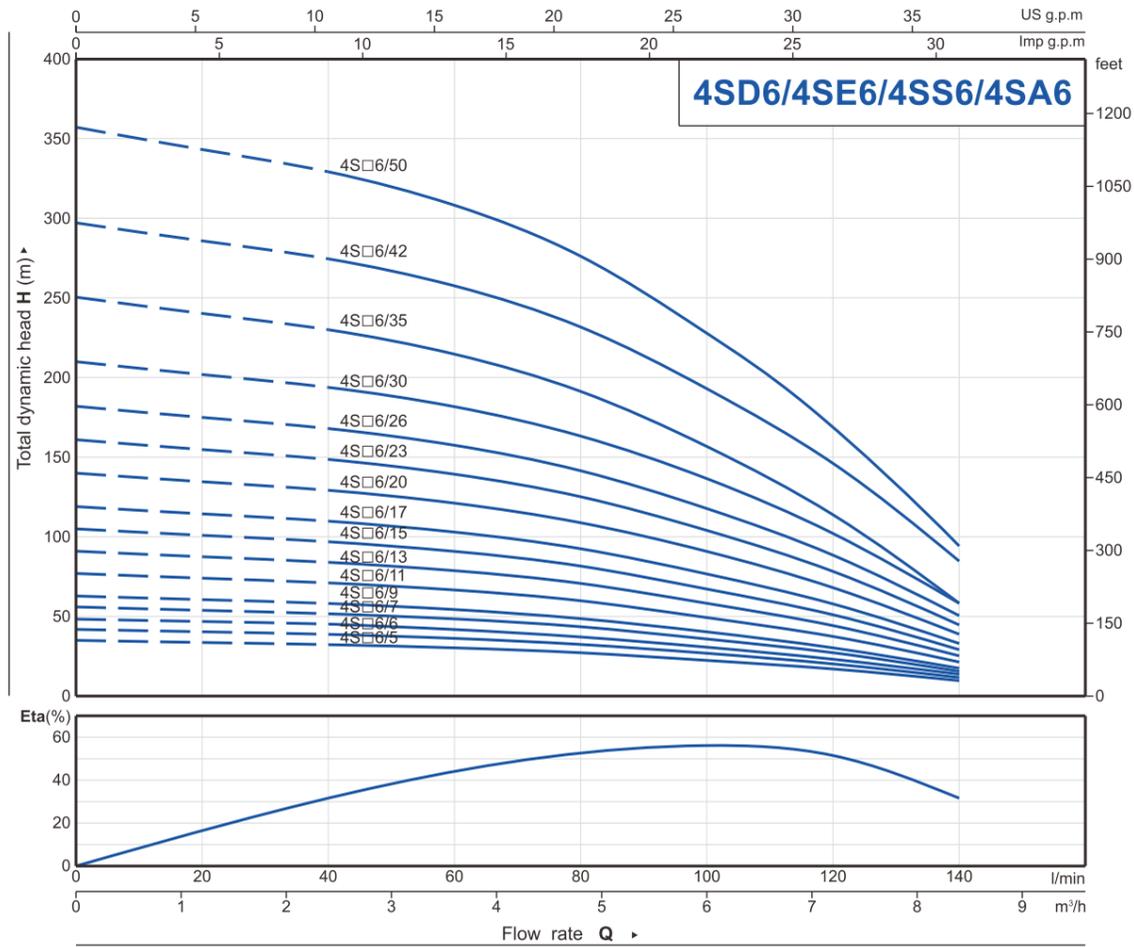
MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min																					
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q m³/h l/min	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8												
					0	10	20	30	40	50	60	70	80	0	10	20	30	40	50	60	70	80			
4S□M3/5	4S□3/5	0.25	0.33	H(m)	36	35	34	32	30	27	22	17	10	45	44	43	42	40	39	36	33	29	24	19	
4S□M3/7	4S□3/7	0.37	0.5		50	49	47	45	41	37	30	23	13	55	54	53	52	50	49	48	44	41	37	33	25
4S□M3/10	4S□3/10	0.55	0.75		72	70	68	64	59	53	43	33	19	75	74	73	72	70	69	66	63	59	55	51	41
4S□M3/12	4S□3/12	0.75	1		86	84	81	77	71	64	52	40	23	85	84	83	82	80	79	76	73	69	65	61	51
4S□M3/13	4S□3/13	0.75	1		93	91	88	83	77	69	56	43	25	90	89	88	87	85	84	81	78	74	70	66	56
4S□M3/15	4S□3/15	0.92	1.25		108	105	102	96	89	80	65	50	29	105	104	103	102	100	99	96	93	89	85	81	71
4S□M3/17	4S□3/17	1.1	1.5		122	119	115	109	101	90	73	56	33	115	114	113	112	110	109	106	103	99	95	91	81
4S□M3/20	4S□3/20	1.3	1.75		144	140	135	128	118	106	86	66	38	135	134	133	132	130	129	126	123	119	115	111	101
4S□M3/22	4S□3/22	1.5	2		158	154	149	141	130	117	95	73	42	145	144	143	142	140	139	136	133	129	125	121	111
4S□M3/26	4S□3/26	1.8	2.5		187	182	176	166	154	138	112	86	50	165	164	163	162	160	159	156	153	149	145	141	131
4S□M3/30	4S□3/30	2.2	3		215	210	203	192	178	159	129	99	58	185	184	183	182	180	179	176	173	169	165	161	151
4S□M3/35	4S□3/35	2.6	3.5		251	245	237	224	207	186	151	116	67	205	204	203	202	200	199	196	193	189	185	181	171
4S□M3/40	4S□3/40	3	4		287	280	271	255	237	212	172	132	77	225	224	223	222	220	219	216	213	209	205	201	191
-	4S□3/45	3.7	5		323	315	305	287	267	239	194	149	87	255	254	253	252	250	249	246	243	239	235	231	221
-	4S□3/52	4	5.5		372	364	352	332	308	276	224	172	100	285	284	283	282	280	279	276	273	269	265	261	251

• 4S□ in the above table can be replaced by any of 4SD, 4SE, 4SS, 4SA

**PERFORMANCE DATA 50Hz**

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min																						
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q m³/h l/min	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0											
					0	10	20	30	40	50	60	70	80	90	100	0	10	20	30	40	50	60	70	80	90	100
4S□M4/6	4S□4/6	0.37	0.5	H(m)	45	43	43	42	40	39	36	33	29	24	19	134	130	128	125	121	116	109	98	87	73	57
4S□M4/8	4S□4/8	0.55	0.75		60	58	57	56	54	52	48	44	39	33	25	139	134	132	129	125	120	113	102	89	75	59
4S□M4/10	4S□4/10	0.75	1		75	72	71	69	67	65	60	55	48	41	31	145	139	137	134	130	124	117	105	91	77	61
4S□M4/12	4S□4/12	0.92	1.25		90	87	85	83	81	77	72	66	58	49	38	150	144	142	139	135	129	121	109	95	81	65
4S□M4/14	4S□4/14	1.1	1.5		105	101	99	97	94	90	85	77	67	57	44	155	149	147	144	140	134	125	113	99	85	69
4S□M4/16	4S□4/16	1.3	1.75		119	116	113	111	108	103	97	87	77	67	50	160	154	152	149	145	139	130	117	103	89	73
4S□M4/18	4S□4/18	1.5	2		134	130	128	125	121	116	109	98	87	73	57	165	159	157	154	150	144	135	121	107	93	77
4S□M4/21	4S□4/21	1.8	2.5		157	152	149	146	141	136	127	115	101	85	66	170	164	162	159	155	149	140	126	112	98	82
4S□M4/24	4S□4/24	2.2	3		179	174	170	167	161	155	145	131	116	98	76	175	169	167	164	160	154	145	131	117	103	87
4S□M4/28	4S□4/28	2.6	3.5		209	203	198	195	188	181	169	153	135	114	88	180	174	172	169	165	159	150	136	122	108	92
4S□M4/32	4S□4/32	3	4		239	232	227	222	215	207	193	175	154	130	101	185	179	177	174	170	164	155	141	127	113	97
-	4S□4/36	3.7	5		269	261	255	250	242	232	217	197	173	146	113	190	184	182	179	175	169	160	146	132	118	102
-	4S□4/42	4	5.5		314	304	298	292	282	271	254	230	202	171	132	195	189	187	184	180	174	165	151	137	123	107
-	4S□4/50	5.5	7.5		373	362	354	347	336	323	302	273	241	203	157	200	194	192	189	185	179	170	156	142	128	112

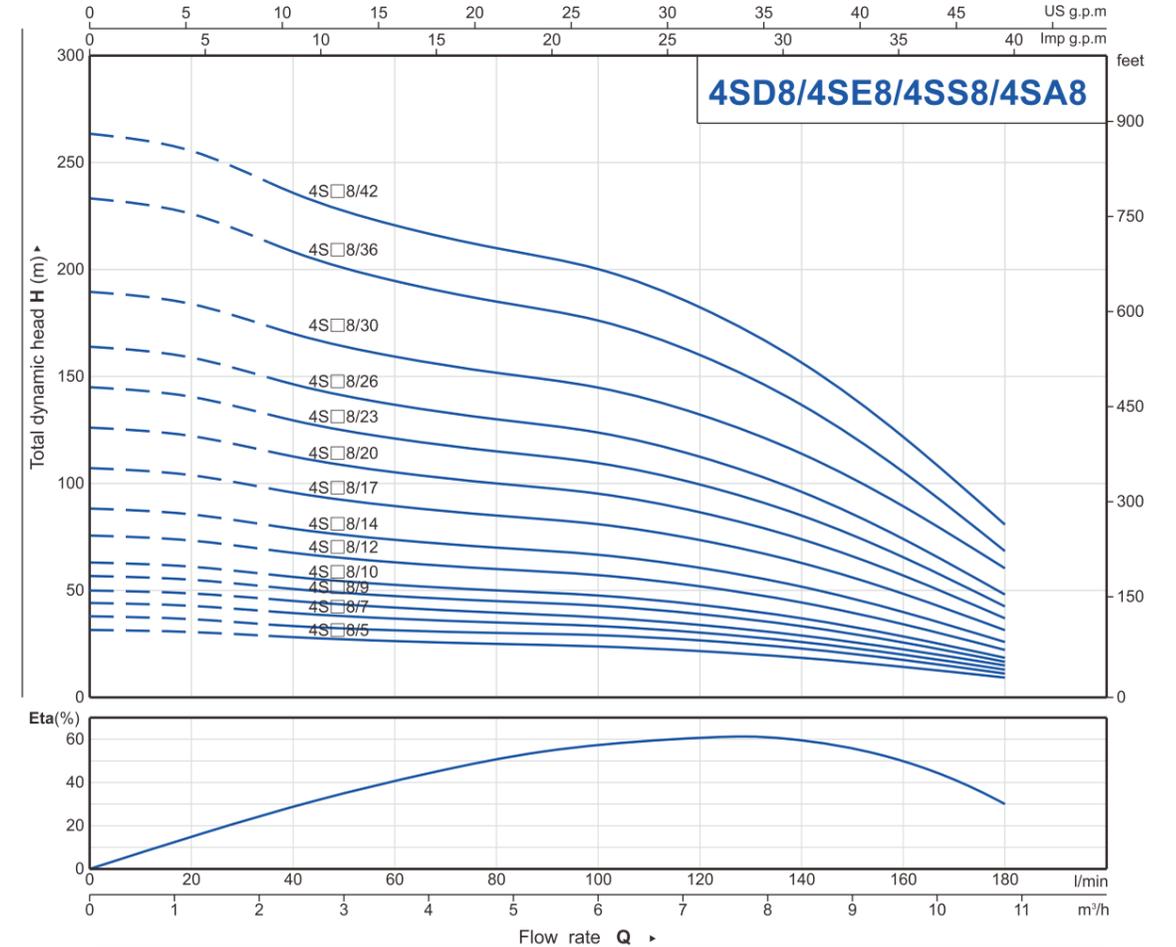
• 4S□ in the above table can be replaced by any of 4SD, 4SE, 4SS, 4SA



**PERFORMANCE DATA 50Hz**

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min									
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q m³/h l/min	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	
					0	20	40	60	80	100	120	140	
4S□M6/5	4S□6/5	0.37	0.5	H(m)	36	35	33	31	28	23	17	10	
4S□M6/6	4S□6/6	0.55	0.75		43	41	40	37	33	28	21	11	
4S□M6/7	4S□6/7	0.75	1		50	48	46	43	39	32	24	13	
4S□M6/9	4S□6/9	0.92	1.25		65	62	60	56	50	42	31	17	
4S□M6/11	4S□6/11	1.1	1.5		79	76	73	68	61	51	38	21	
4S□M6/13	4S□6/13	1.3	1.75		93	90	86	80	72	60	45	25	
4S□M6/15	4S□6/15	1.5	2		108	104	100	93	83	70	52	29	
4S□M6/17	4S□6/17	1.8	2.5		122	117	113	105	94	79	59	32	
4S□M6/20	4S□6/20	2.2	3		144	138	133	124	111	93	69	38	
4S□M6/23	4S□6/23	2.6	3.5		165	159	153	142	128	107	79	44	
4S□M6/26	4S□6/26	3	4		187	180	173	161	144	121	90	50	
-	4S□6/30	3.7	5		215	207	199	185	166	139	104	57	
-	4S□6/35	4	5.5		251	242	232	216	194	162	121	67	
-	4S□6/42	5.5	7.5		302	290	279	260	233	195	145	80	
-	4S□6/50	7.5	10		359	345	332	309	277	232	173	95	

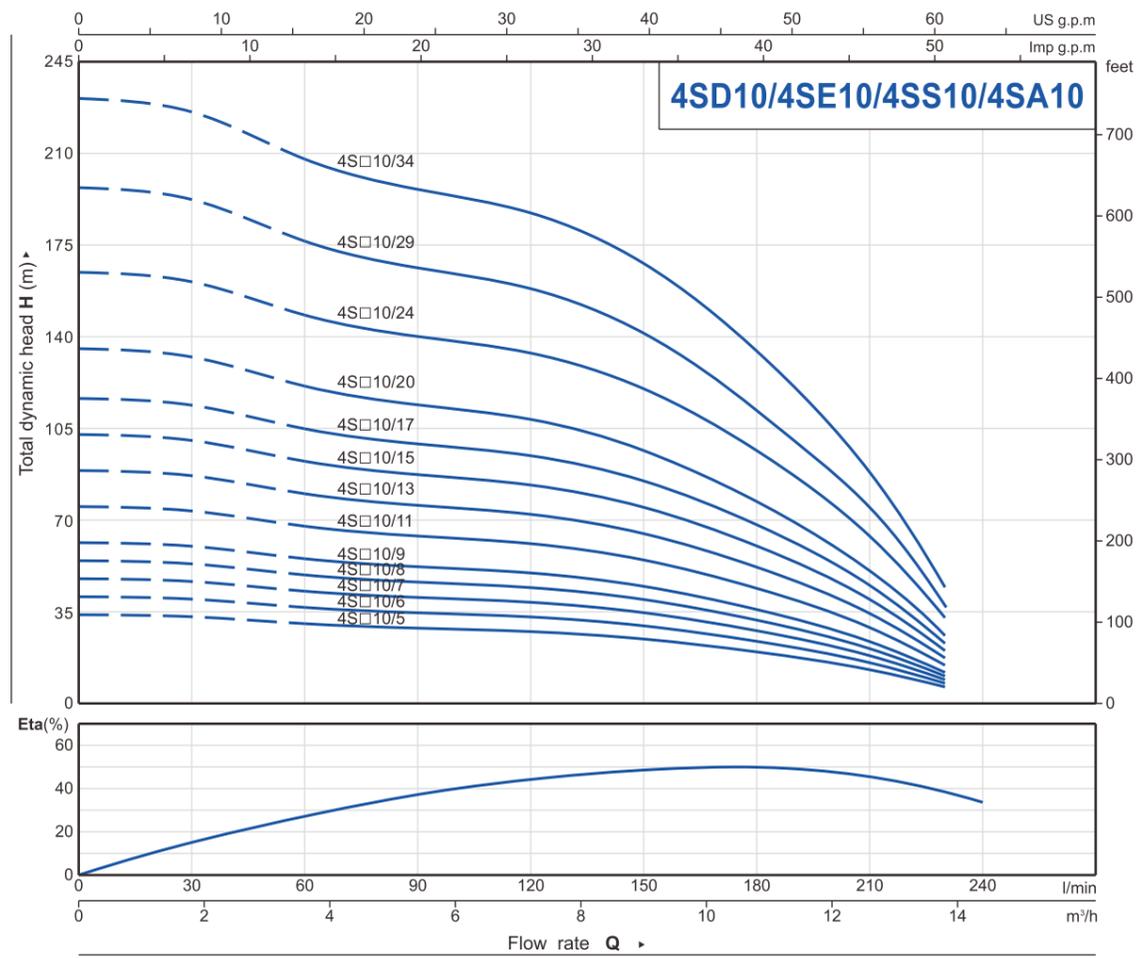
• 4S□ in the above table can be replaced by any of 4SD, 4SE, 4SS, 4SA



**PERFORMANCE DATA 50Hz**

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min											
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q m³/h l/min	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	
					0	20	40	60	80	100	120	140	160	180	
4S□M8/5	4S□8/5	0.55	0.75	H(m)	32	31	28	26	25	24	22	18	14	9	
4S□M8/6	4S□8/6	0.75	1		38	37	34	32	30	29	26	22	17	11	
4S□M8/7	4S□8/7	0.92	1.25		44	43	39	37	35	33	30	26	20	13	
4S□M8/8	4S□8/8	1.1	1.5		50	49	45	42	40	38	35	30	23	15	
4S□M8/9	4S□8/9	1.1	1.5		57	55	51	47	45	43	39	33	26	17	
4S□M8/10	4S□8/10	1.3	1.75		63	61	56	53	50	48	43	37	28	18	
4S□M8/12	4S□8/12	1.5	2		76	73	67	63	60	57	52	44	34	22	
4S□M8/14	4S□8/14	1.8	2.5		88	86	79	74	70	67	61	52	40	26	
4S□M8/17	4S□8/17	2.2	3		107	104	96	90	85	81	74	63	48	31	
4S□M8/20	4S□8/20	2.6	3.5		126	122	112	105	100	95	87	74	57	37	
4S□M8/23	4S□8/23	3	4		145	141	129	121	115	109	100	85	65	42	
-	4S□8/26	3.7	5		164	159	146	137	130	124	113	96	74	48	
-	4S□8/30	4	5.5		189	183	169	158	150	143	130	111	85	55	
-	4S□8/36	5.5	7.5		227	220	202	190	180	171	156	133	102	66	
-	4S□8/42	7.5	10		265	257	236	221	210	200	182	155	119	77	

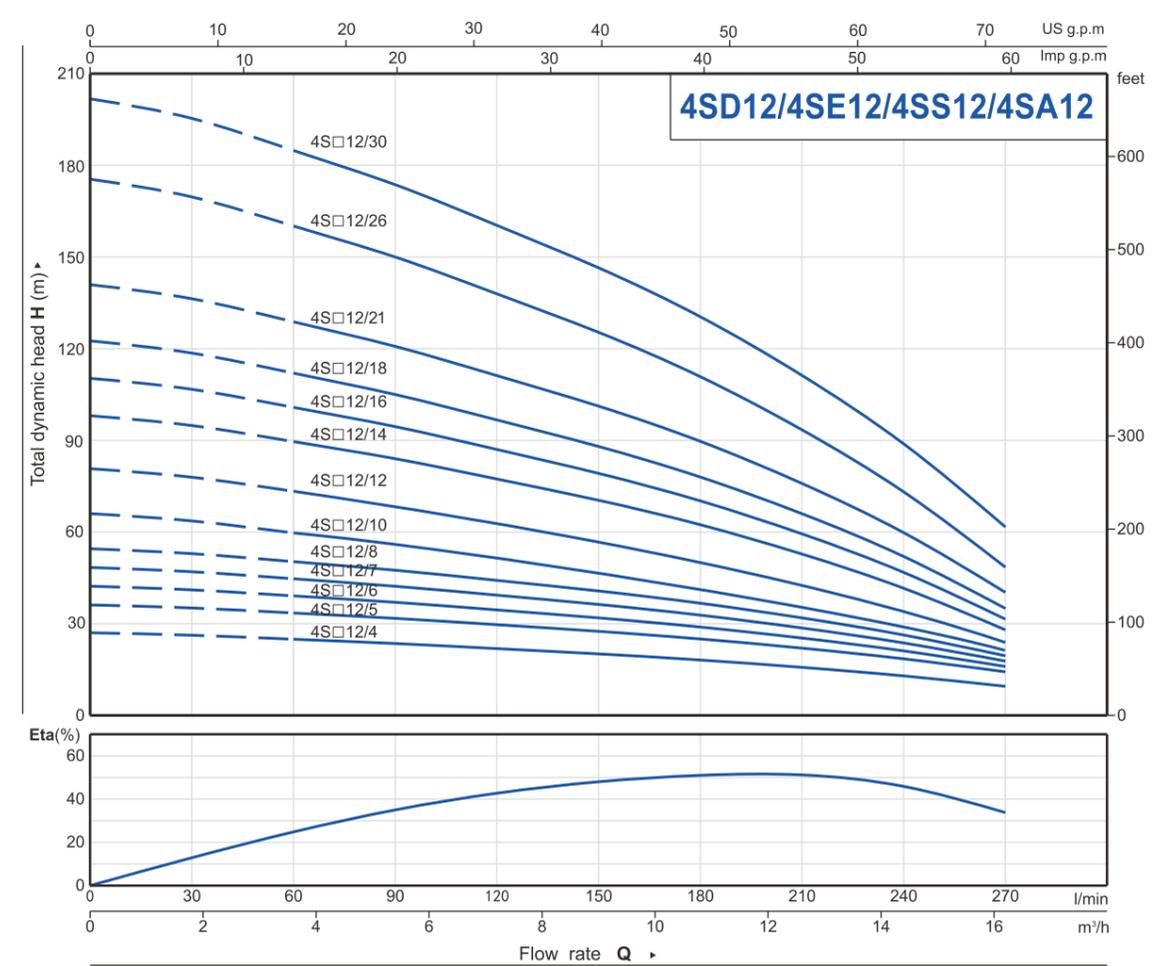
• 4S□ in the above table can be replaced by any of 4SD, 4SE, 4SS, 4SA



**PERFORMANCE DATA 50Hz**

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min									
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q m³/h l/min	0	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4
					0	30	60	90	120	150	180	210	240
4S□M10/5	4S□10/5	0.75	1	H(m)	34	33	30	29	27	25	21	15	7
4S□M10/6	4S□10/6	0.92	1.25		40	40	37	34	33	29	25	18	9
4S□M10/7	4S□10/7	1.1	1.5		47	46	43	40	38	34	29	21	10
4S□M10/8	4S□10/8	1.3	1.75		54	53	49	46	44	39	33	24	12
4S□M10/9	4S□10/9	1.5	2		61	59	55	52	49	44	37	27	13
4S□M10/11	4S□10/11	1.8	2.5		74	72	67	63	60	54	45	33	16
4S□M10/13	4S□10/13	2.2	3		88	86	79	75	71	64	53	39	19
4S□M10/15	4S□10/15	2.6	3.5		101	99	91	86	82	74	62	45	22
4S□M10/17	4S□10/17	3	4		115	112	104	98	93	84	70	51	25
-	4S□10/20	3.7	5		135	132	122	115	109	98	82	60	29
-	4S□10/24	4	5.5		162	158	146	138	131	118	99	72	35
-	4S□10/29	5.5	7.5		195	191	177	166	159	142	119	87	42
-	4S□10/34	7.5	10		229	224	207	195	186	167	140	102	49

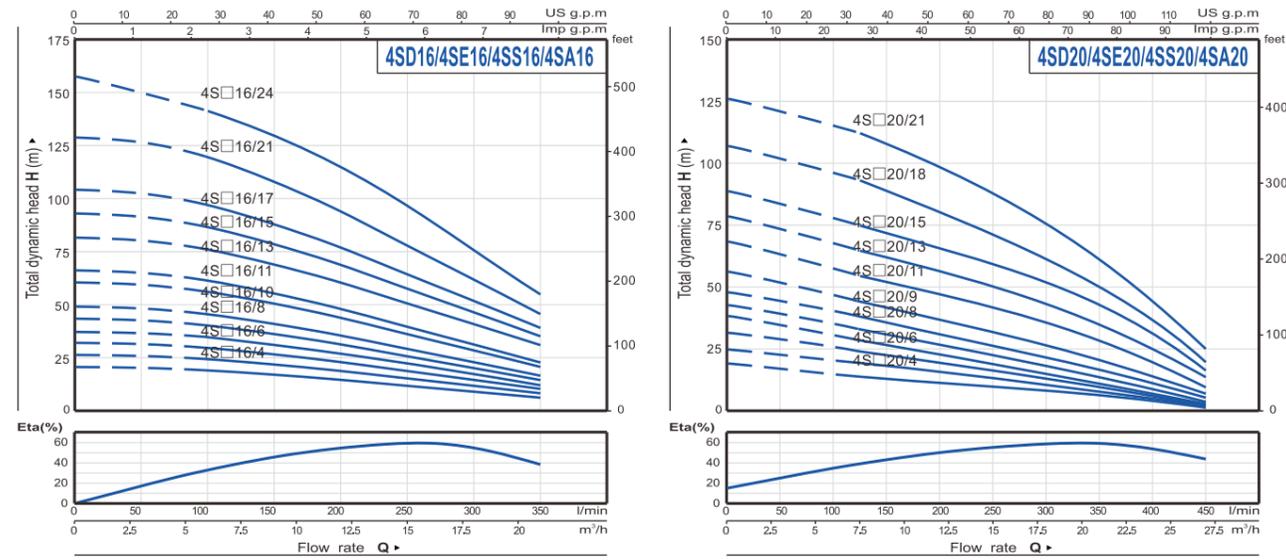
• 4S□ in the above table can be replaced by any of 4SD, 4SE, 4SS, 4SA



**PERFORMANCE DATA 50Hz**

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min											
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q m³/h l/min	0	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	
					0	30	60	90	120	150	180	210	240	270	
4S□M12/4	4S□12/4	0.75	1	H(m)	27	26	25	23	21	19	17	15	12	7	
4S□M12/5	4S□12/5	0.92	1.25		34	33	31	28	27	24	22	19	15	9	
4S□M12/6	4S□12/6	1.1	1.5		41	39	37	34	32	29	26	23	18	11	
4S□M12/7	4S□12/7	1.3	1.75		47	46	43	39	37	34	31	26	21	12	
4S□M12/8	4S□12/8	1.5	2		54	52	49	45	43	39	35	30	24	14	
4S□M12/10	4S□12/10	1.8	2.5		68	65	61	56	53	49	44	38	30	18	
4S□M12/12	4S□12/12	2.2	3		81	78	74	68	64	58	52	45	36	21	
4S□M12/14	4S□12/14	2.6	3.5		95	91	86	79	75	68	61	53	42	25	
4S□M12/16	4S□12/16	3	4		108	104	98	90	85	78	70	60	48	28	
-	4S□12/18	3.7	5		122	117	110	101	96	88	79	68	54	32	
-	4S□12/21	4	5.5		142	137	129	118	112	102	92	79	63	37	
-	4S□12/26	5.5	7.5		176	169	159	146	139	127	114	98	78	46	
-	4S□12/30	7.5	10		203	195	184	169	160	146	131	113	90	53	

• 4S□ in the above table can be replaced by any of 4SD, 4SE, 4SS, 4SA



PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min											
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q m <sup>3</sup> /h l/min	0	3	6	9	12	15	18	21			
4S□M16/3	4S□16/3	0.75	1	H(m)	0	50	100	150	200	250	300	350			
4S□M16/4	4S□16/4	0.92	1.25		19	18	17	15	13	11	9	6			
4S□M16/5	4S□16/5	1.1	1.5		25	24	22	20	18	15	12	9			
4S□M16/6	4S□16/6	1.3	1.75		32	30	28	25	22	19	15	11			
4S□M16/7	4S□16/7	1.5	2		38	36	33	30	26	22	18	13			
4S□M16/8	4S□16/8	1.8	2.5		44	42	39	35	31	26	21	15			
4S□M16/10	4S□16/10	2.2	3		51	48	44	40	35	30	24	17			
4S□M16/11	4S□16/11	2.6	3.5		63	60	55	50	44	37	30	22			
4S□M16/13	4S□16/13	3	4		70	66	61	55	48	41	33	24			
-	4S□16/15	3.7	5		82	78	72	65	57	48	39	28			
-	4S□16/17	4	5.5		95	90	83	75	66	56	45	32			
-	4S□16/21	5.5	7.5		107	102	94	85	75	63	51	37			
-	4S□16/24	7.5	10		133	126	116	105	92	78	63	45			
					152	144	132	120	106	89	72	52			

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min										
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q m <sup>3</sup> /h l/min	0	3	6	9	12	15	18	21	24	27
4S□M20/3	4S□20/3	0.92	1.25	H(m)	0	50	100	150	200	250	300	350	400	450
4S□M20/4	4S□20/4	1.1	1.5		19	18	17	15	13	12	10	9	7	4
4S□M20/5	4S□20/5	1.3	1.75		25	24	23	20	18	16	14	12	9	5
4S□M20/6	4S□20/6	1.5	2		31	30	29	25	22	20	17	15	11	6
4S□M20/7	4S□20/7	1.8	2.5		38	37	35	31	27	24	21	18	13	8
4S□M20/8	4S□20/8	2.2	3		44	43	40	36	31	28	24	21	15	9
4S□M20/9	4S□20/9	2.6	3.5		50	49	46	41	35	32	28	23	17	10
4S□M20/11	4S□20/11	3	4		56	55	52	46	40	36	31	26	20	12
-	4S□20/13	3.7	5		69	67	63	56	49	44	38	32	24	14
-	4S□20/15	4	5.5		81	79	75	66	57	52	45	38	28	17
-	4S□20/18	5.5	7.5		94	91	86	76	66	60	52	44	33	19
-	4S□20/21	7.5	10		113	110	104	92	80	72	62	53	39	23
					131	128	121	107	93	84	73	62	46	27

• 4S□ in the above table can be replaced by any of 4SD, 4SE, 4SS, 4SA

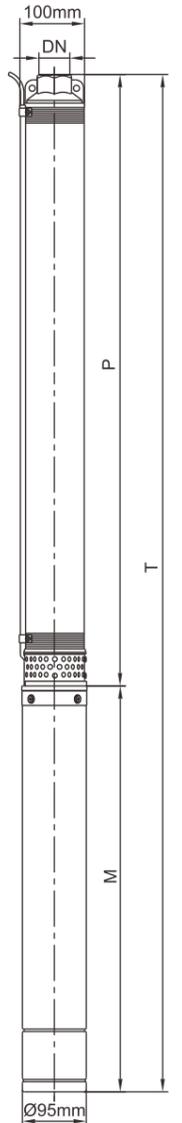
DIMENSION AND WEIGHT

MODEL		DN	DIMENSION(mm)					WEIGHT(kg)				
1~ 220 - 240V	3~ 380 - 415V		P	M(s)	M(T)	T(s)	T(T)	P	M(s)	M(T)	T(s)	T(T)
4S□M2/7	4S□2/7	1"1/4"1/2"	396	289	289	685	685	3.2	5.9	5.9	9.1	9.1
4S□M2/9	4S□2/9	1"1/4"1/2"	444	304	304	748	748	3.6	6.6	6.6	10.2	10.2
4S□M2/12	4S□2/12	1"1/4"1/2"	518	319	319	837	837	4.1	7.3	7.3	11.4	11.4
4S□M2/15	4S□2/15	1"1/4"1/2"	591	349	334	940	925	4.7	8.7	7.9	13.4	12.6
4S□M2/18	4S□2/18	1"1/4"1/2"	695	369	349	1064	1044	5.5	9.8	8.7	15.3	14.2
4S□M2/21	4S□2/21	1"1/4"1/2"	768	389	369	1157	1137	6.0	10.6	9.8	16.6	15.8
4S□M2/24	4S□2/24	1"1/4"1/2"	841	414	389	1255	1230	6.6	11.5	10.6	18.1	17.2
4S□M2/28	4S□2/28	1"1/4"1/2"	938	439	414	1377	1352	7.4	12.7	11.5	20.1	18.9
4S□M2/32	4S□2/32	1"1/4"1/2"	1035	474	439	1509	1474	8.1	14.4	12.7	22.5	20.8
4S□M2/37	4S□2/37	1"1/4"1/2"	1188	514	474	1702	1662	9.3	16.4	14.4	25.7	23.7
4S□M2/42	4S□2/42	1"1/4"1/2"	1310	554	514	1864	1824	10.2	19.8	16.4	30.0	26.6
4S□M2/47	4S□2/47	1"1/4"1/2"	1431	589	554	2020	1985	11.2	21.5	19.8	32.7	31.0
-	4S□2/52	1"1/4"1/2"	1584	-	589	-	2173	12.3	-	21.5	-	33.8
-	4S□2/60	1"1/4"1/2"	1779	-	629	-	2408	13.8	-	23.0	-	36.8

4S□M3/5	4S□3/5	1"1/4"1/2"	354	289	289	643	643	2.9	5.9	5.9	8.8	8.8
4S□M3/7	4S□3/7	1"1/4"1/2"	405	304	304	709	709	3.3	6.6	6.6	9.9	9.9
4S□M3/10	4S□3/10	1"1/4"1/2"	482	319	319	801	801	3.8	7.3	7.3	11.1	11.1
4S□M3/12	4S□3/12	1"1/4"1/2"	533	349	334	882	867	4.1	8.7	7.9	12.8	12.0
4S□M3/15	4S□3/15	1"1/4"1/2"	591	369	349	979	959	4.8	9.8	8.7	14.6	13.5
4S□M3/17	4S□3/17	1"1/4"1/2"	661	389	369	1050	1030	5.4	10.6	9.8	15.4	14.6
4S□M3/20	4S□3/20	1"1/4"1/2"	770	414	389	1184	1159	6.0	11.5	10.6	17.5	16.6
4S□M3/22	4S□3/22	1"1/4"1/2"	821	439	414	1260	1235	6.4	12.7	11.5	19.1	17.9
4S□M3/26	4S□3/26	1"1/4"1/2"	923	474	439	1397	1362	7.2	14.4	12.7	21.6	19.9
4S□M3/30	4S□3/30	1"1/4"1/2"	1080	514	474	1594	1554	8.4	16.4	14.4	24.8	22.8
4S□M3/35	4S□3/35	1"1/4"1/2"	1248	554	514	1802	1762	9.6	19.8	16.4	29.4	26.0
4S□M3/40	4S□3/40	1"1/4"1/2"	1385	589	554	1974	1939	10.6	21.5	19.8	32.1	30.4
-	4S□3/45	1"1/4"1/2"	1554	-	589	-	2143	11.9	-	21.5	-	33.4
-	4S□3/52	1"1/4"1/2"	1745	-	629	-	2374	13.3	-	23.0	-	36.3

4S□M4/6	4S□4/6	1"1/4"1/2"	394	304	304	698	698	3.2	6.6	6.6	9.8	9.8
4S□M4/8	4S□4/8	1"1/4"1/2"	450	319	319	769	769	3.5	7.3	7.3	10.8	10.8
4S□M4/10	4S□4/10	1"1/4"1/2"	507	349	334	856	841	3.9	8.7	7.9	12.6	11.8
4S□M4/12	4S□4/12	1"1/4"1/2"	563	369	349	932	912	4.4	9.8	8.7	14.2	13.1
4S□M4/14	4S□4/14	1"1/4"1/2"	619	389	369	1008	988	4.8	10.6	9.8	15.4	14.6
4S□M4/16	4S□4/16	1"1/4"1/2"	707	414	389	1121	1096	5.4	11.5	10.6	16.9	16.0
4S□M4/18	4S□4/18	1"1/4"1/2"	763	439	414	1202	1177	5.9	12.7	11.5	18.6	17.4
4S□M4/21	4S□4/21	1"1/4"1/2"	848	474	439	1322	1287	6.4	14.4	12.7	20.8	19.1
4S□M4/24	4S□4/24	1"1/4"1/2"	932	514	474	1446	1406	7.1	16.4	14.4	23.5	21.5
4S□M4/28	4S□4/28	1"1/4"1/2"	1044	554	514	1598	1558	7.9	19.8	16.4	27.7	24.3
4S□M4/32	4S□4/32	1"1/4"1/2"	1246	589	554	1835	1800	9.4	21.5	19.8	30.9	29.2
-	4S□4/36	1"1/4"1/2"	1365	-	589	-	1954	10.3	-	21.5	-	31.8
-	4S□4/42	1"1/4"1/2"	1576	-	629	-	2205	11.8	-	23.0	-	34.8
-	4S□4/50	1"1/4"1/2"	1816	-	719	-	2535	13.6	-	28.0	-	41.6

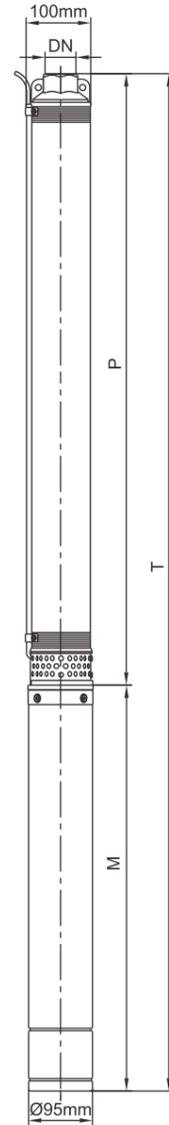
• M(S) is single phase motor, M(T) is three phase motor.  
• T(S) is single phase motor, T(T) is three phase motor.



**DIMENSION AND WEIGHT**

MODEL		DN	DIMENSION(mm)					WEIGHT(kg)				
1~ 220 - 240V	3~ 380 - 415V		P	M(S)	M(T)	T(S)	T(T)	P	M(S)	M(T)	T(S)	T(T)
4S□M6/5	4S□6/5	1¼"/1½"/2"	398	304	304	702	702	3.1	6.6	6.6	9.7	9.7
4S□M6/6	4S□6/6	1¼"/1½"/2"	432	319	319	751	751	3.4	7.3	7.3	10.7	10.7
4S□M6/7	4S□6/7	1¼"/1½"/2"	466	349	334	815	800	3.6	8.7	7.9	12.3	11.5
4S□M6/9	4S□6/9	1¼"/1½"/2"	535	369	349	904	884	4.1	9.8	8.7	13.9	12.8
4S□M6/11	4S□6/11	1¼"/1½"/2"	604	389	369	993	973	4.6	10.6	9.8	15.2	14.4
4S□M6/13	4S□6/13	1¼"/1½"/2"	705	414	389	1119	1094	5.4	11.5	11.6	16.9	17.0
4S□M6/15	4S□6/15	1¼"/1½"/2"	774	439	414	1213	1188	5.9	12.7	11.5	18.6	17.4
4S□M6/17	4S□6/17	1¼"/1½"/2"	842	474	439	1316	1281	6.4	14.4	12.7	20.8	19.1
4S□M6/20	4S□6/20	1¼"/1½"/2"	946	514	474	1460	1420	7.1	16.4	14.4	23.5	21.5
4S□M6/23	4S□6/23	1¼"/1½"/2"	1049	554	514	1603	1563	7.9	19.8	16.4	27.7	24.3
4S□M6/26	4S□6/26	1¼"/1½"/2"	1183	589	554	1772	1737	8.8	21.5	19.8	30.3	28.6
-	4S□6/30	1¼"/1½"/2"	1321	-	589	-	1910	9.8	-	21.5	-	31.3
-	4S□6/35	1¼"/1½"/2"	1493	-	629	-	2122	11.1	-	23.0	-	34.1
-	4S□6/42	1¼"/1½"/2"	1765	-	719	-	2484	13.1	-	28.0	-	41.1
-	4S□6/50	1¼"/1½"/2"	2072	-	839	-	2911	15.2	-	34.6	-	49.8
4S□M8/5	4S□8/5	1¼"/1½"/2"	409	319	319	728	728	3.2	7.3	7.3	10.5	10.5
4S□M8/6	4S□8/6	1¼"/1½"/2"	445	349	334	794	779	3.5	8.7	7.9	12.2	11.4
4S□M8/7	4S□8/7	1¼"/1½"/2"	481	369	349	850	830	3.7	9.8	8.7	13.2	12.4
4S□M8/8	4S□8/8	1¼"/1½"/2"	517	389	369	906	886	4.0	10.6	9.8	14.6	13.8
4S□M8/9	4S□8/9	1¼"/1½"/2"	553	389	369	942	922	4.3	10.6	9.8	14.9	14.1
4S□M8/10	4S□8/10	1¼"/1½"/2"	589	414	389	1003	978	4.5	11.5	10.6	16.0	15.1
4S□M8/12	4S□8/12	1¼"/1½"/2"	662	439	414	1101	1076	5.1	12.7	11.5	17.8	16.6
4S□M8/14	4S□8/14	1¼"/1½"/2"	768	474	439	1242	1207	5.8	14.4	12.7	20.2	18.5
4S□M8/17	4S□8/17	1¼"/1½"/2"	876	514	474	1390	1350	6.6	16.4	14.4	23.0	21.0
4S□M8/20	4S□8/20	1¼"/1½"/2"	985	554	514	1539	1499	7.4	19.8	16.4	27.2	23.8
4S□M8/23	4S□8/23	1¼"/1½"/2"	1093	589	554	1682	1647	8.2	21.5	19.8	29.7	28.0
-	4S□8/26	1¼"/1½"/2"	1235	-	589	-	1824	9.2	-	21.5	-	30.7
-	4S□8/30	1¼"/1½"/2"	1380	-	629	-	2009	10.2	-	23.0	-	33.2
-	4S□8/36	1¼"/1½"/2"	1630	-	719	-	2349	12.1	-	28.0	-	40.1
-	4S□8/42	1¼"/1½"/2"	1847	-	839	-	2686	13.7	-	34.6	-	48.3
4S□M10/5	4S□10/5	1½"/2"	439	349	334	788	773	3.9	8.7	7.9	12.6	11.8
4S□M10/6	4S□10/6	1½"/2"	481	369	349	850	830	4.1	9.8	8.7	13.9	12.8
4S□M10/7	4S□10/7	1½"/2"	523	389	369	912	892	4.4	10.6	9.8	15.0	14.2
4S□M10/8	4S□10/8	1½"/2"	565	414	389	979	954	4.7	11.5	10.6	16.2	15.3
4S□M10/9	4S□10/9	1½"/2"	607	439	414	1046	1021	5.0	12.7	11.5	17.7	16.5
4S□M10/11	4S□10/11	1½"/2"	726	474	439	1200	1165	5.9	14.4	12.7	20.3	18.6
4S□M10/13	4S□10/13	1½"/2"	810	514	474	1324	1284	6.4	16.4	14.4	22.8	20.8
4S□M10/15	4S□10/15	1½"/2"	894	554	514	1448	1408	7.0	19.8	16.4	26.8	23.4
4S□M10/17	4S□10/17	1½"/2"	978	589	554	1567	1532	7.7	21.5	19.8	29.2	27.5
-	4S□10/20	1½"/2"	1139	-	589	-	1728	8.8	-	21.5	-	30.3
-	4S□10/24	1½"/2"	1307	-	629	-	1936	10.0	-	23.0	-	33.0
-	4S□10/29	1½"/2"	1517	-	719	-	2236	11.6	-	28.0	-	39.6
-	4S□10/34	1½"/2"	1762	-	839	-	2601	13.3	-	34.6	-	47.9

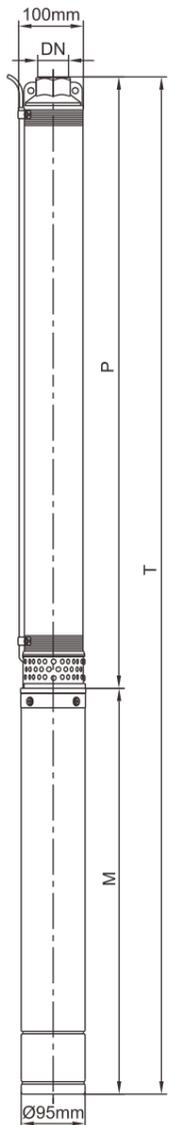
- M(S) is single phase motor, M(T) is three phase motor.
- T(S) is single phase motor, T(T) is three phase motor.



**DIMENSION AND WEIGHT**

MODEL		DN	DIMENSION(mm)					WEIGHT(kg)				
1~ 220 - 240V	3~ 380 - 415V		P	M(S)	M(T)	T(S)	T(T)	P	M(S)	M(T)	T(S)	T(T)
4S□M12/4	4S□12/4	2"	428	349	334	777	762	3.2	8.7	7.9	11.9	11.1
4S□M12/5	4S□12/5	2"	474	369	349	843	823	3.5	9.8	8.7	13.3	12.2
4S□M12/6	4S□12/6	2"	520	389	369	909	889	3.8	10.6	9.8	14.4	13.6
4S□M12/7	4S□12/7	2"	567	414	389	981	956	4.1	11.5	10.6	15.6	14.7
4S□M12/8	4S□12/8	2"	613	439	414	1052	1027	4.5	12.7	11.5	17.2	16.2
4S□M12/10	4S□12/10	2"	744	474	439	1218	1183	5.4	14.4	12.7	19.8	18.1
4S□M12/12	4S□12/12	2"	837	514	474	1351	1311	6.1	16.4	14.4	22.5	20.5
4S□M12/14	4S□12/14	2"	930	554	514	1484	1444	6.7	19.8	16.4	26.5	23.1
4S□M12/16	4S□12/16	2"	1023	589	554	1612	1577	7.3	21.5	19.8	28.8	27.1
-	4S□12/18	2"	1116	-	589	-	1705	8.0	-	21.5	-	29.5
-	4S□12/21	2"	1293	-	629	-	1922	9.2	-	23.0	-	32.2
-	4S□12/26	2"	1525	-	719	-	2244	10.9	-	28.0	-	38.9
-	4S□12/30	2"	1749	-	839	-	2588	12.4	-	34.6	-	47.0
4S□M16/3	4S□16/3	2"	459	349	334	808	793	3.6	8.7	7.9	12.3	11.5
4S□M16/4	4S□16/4	2"	527	369	349	896	876	4.0	9.8	8.7	13.8	12.7
4S□M16/5	4S□16/5	2"	596	389	369	985	965	4.6	10.6	9.8	15.2	14.4
4S□M16/6	4S□16/6	2"	664	414	389	1078	1053	5.2	11.5	10.6	16.7	15.8
4S□M16/7	4S□16/7	2"	764	439	414	1203	1178	5.9	12.7	11.5	18.6	17.4
4S□M16/8	4S□16/8	2"	833	474	439	1307	1272	6.5	14.4	12.7	20.9	19.2
4S□M16/10	4S□16/10	2"	970	514	474	1484	1444	7.5	16.4	14.4	23.9	21.9
4S□M16/11	4S□16/11	2"	1038	554	514	1592	1552	8.1	19.8	16.4	27.9	24.5
4S□M16/13	4S□16/13	2"	1206	589	554	1795	1760	9.4	21.5	19.8	30.9	29.2
-	4S□16/15	2"	1343	-	589	-	1932	10.4	-	21.5	-	31.9
-	4S□16/17	2"	1480	-	629	-	2109	11.5	-	23.0	-	34.5
-	4S□16/21	2"	1785	-	719	-	2504	13.9	-	28.0	-	41.9
-	4S□16/24	2"	2022	-	839	-	2861	15.8	-	34.6	-	50.4
4S□M20/3	4S□20/3	2"	477	369	349	846	826	3.6	9.8	8.7	13.4	12.3
4S□M20/4	4S□20/4	2"	551	389	369	940	920	4.2	10.6	9.8	14.8	14
4S□M20/5	4S□20/5	2"	626	414	389	1040	1015	4.8	11.5	10.6	16.3	15.4
4S□M20/6	4S□20/6	2"	732	439	414	1171	1146	5.4	12.7	11.5	18.1	16.9
4S□M20/7	4S□20/7	2"	806	474	439	1280	1245	6.0	14.4	12.7	20.4	18.7
4S□M20/8	4S□20/8	2"	881	514	474	1395	1355	6.6	16.4	14.4	23.0	21.0
4S□M20/9	4S□20/9	2"	955	554	514	1509	1469	7.3	19.8	16.4	27.1	23.7
4S□M20/11	4S□20/11	2"	1104	589	554	1693	1658	8.3	21.5	19.8	29.8	28.1
-	4S□20/13	2"	1284	-	589	-	1873	9.9	-	21.5	-	31.4
-	4S□20/15	2"	1433	-	629	-	2062	10.5	-	23.0	-	33.5
-	4S□20/18	2"	1688	-	719	-	2407	13.1	-	28.0	-	41.1
-	4S□20/21	2"	1911	-	839	-	2750	14.9	-	34.6	-	49.5

- M(S) is single phase motor, M(T) is three phase motor.
- T(S) is single phase motor, T(T) is three phase motor.



# 4SP

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +50°C  
 Maximum sand content: 0.25%  
 Minimum well diameter: 4"

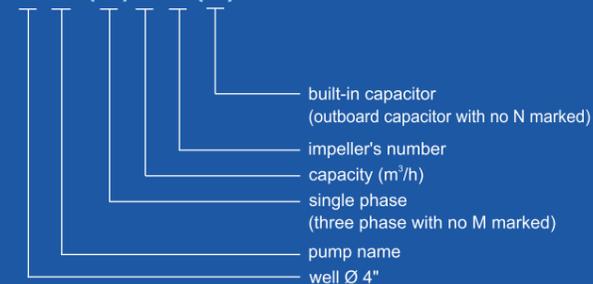
## Motor and Pump

Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
 Equip with start control box or digital auto-control box  
**NEMA** dimension standards  
 Curve tolerance according to ISO 9906

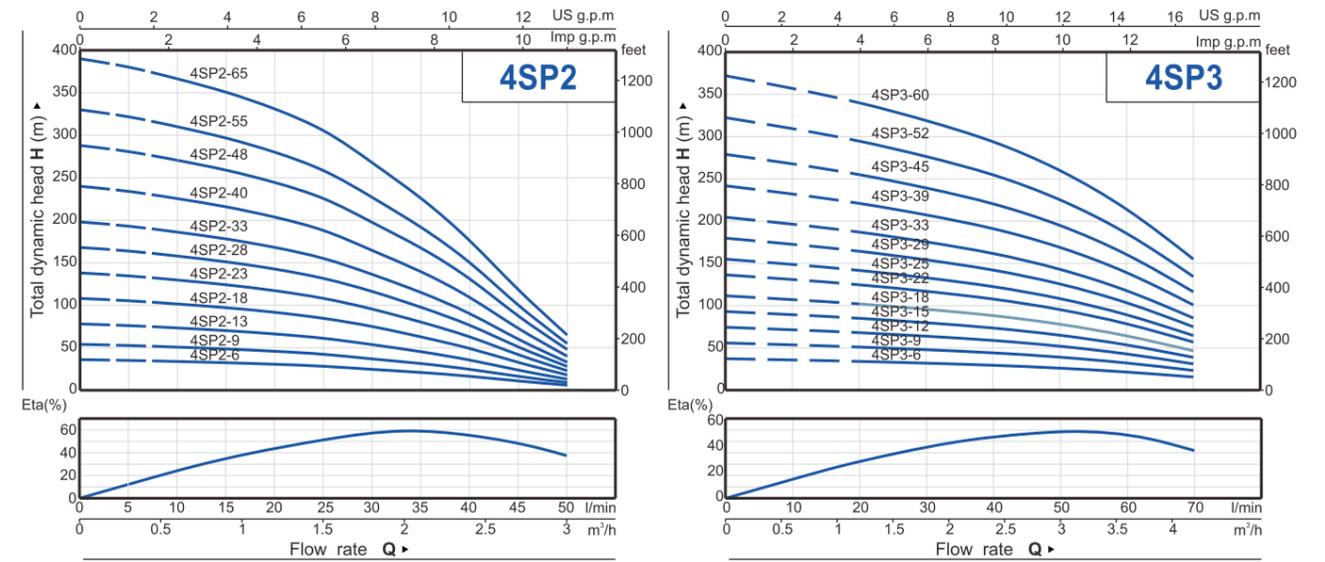
## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz  
 Single phase motor with built-in capacitor

## 4 SP (M) 2-6 (N)



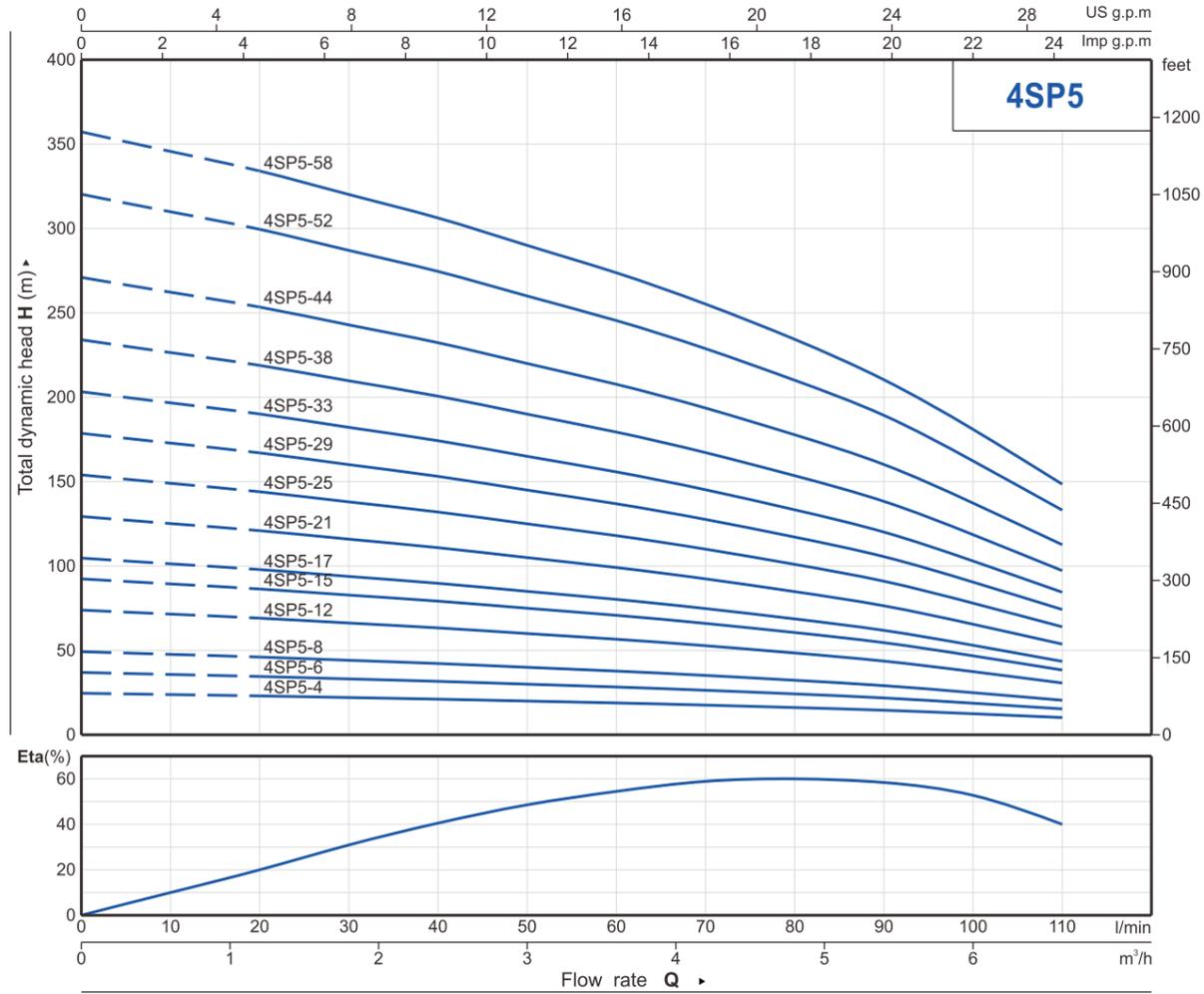
Components	Material
Delivery casing	AISI 304 SS
Suction lantern	AISI 304 SS
Diffuser	AISI 304 SS
Impeller	AISI 304 SS
Shaft	AISI 304 SS
Shaft coupling	AISI 304 SS
Wear ring	Rubber
Motor external casing	AISI 304 SS
Top chock	①Cast-Cu ASTM C85500 ②AISI 304 SS ③Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Special seal for deep well(Graphite-Ceramic)
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.



## PERFORMANCE DATA 50Hz

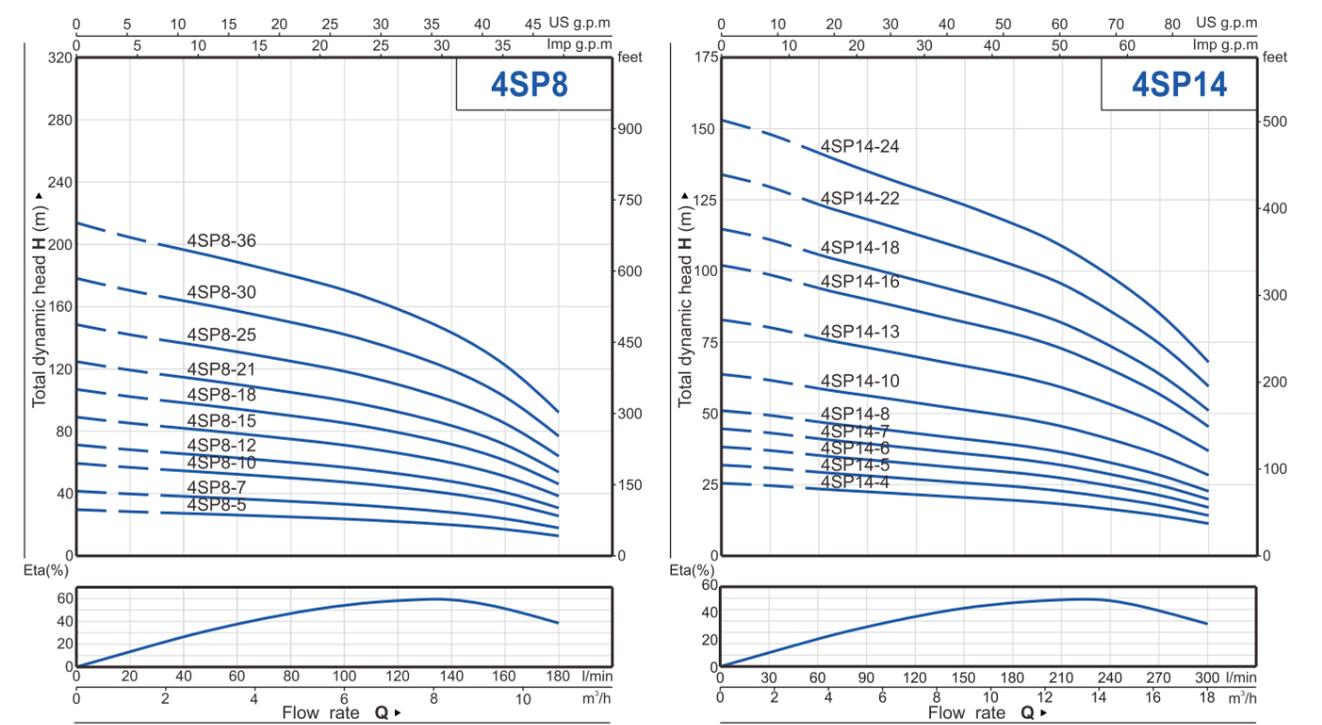
MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min													
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q	m³/h												
					0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0		
4SPM2-6	4SP2-6	0.37	0.5	H(m)	0	5	10	15	20	25	30	35	40	45	50		
4SPM2-9	4SP2-9	0.37	0.5		36	35	34	32	31	28	25	21	16	11	6		
4SPM2-13	4SP2-13	0.55	0.75		54	53	51	48	46	42	37	31	25	17	9		
4SPM2-18	4SP2-18	0.75	1		78	76	73	70	66	61	54	45	35	24	13		
4SPM2-23	4SP2-23	1.1	1.5		108	105	102	97	92	85	75	63	49	34	18		
4SPM2-28	4SP2-28	1.3	1.75		138	134	130	124	117	108	96	80	63	43	23		
4SPM2-33	4SP2-33	1.5	2		168	164	158	151	143	132	116	97	76	53	28		
4SPM2-40	4SP2-40	1.8	2.5		198	193	186	178	168	155	137	115	90	62	32		
4SPM2-48	4SP2-48	2.2	3		240	234	226	215	204	188	166	139	109	75	39		
4SPM2-55	4SP2-55	2.6	3.5		288	281	271	258	244	226	199	167	131	90	47		
4SPM2-65	4SP2-65	3	4		330	322	311	296	280	259	228	191	150	103	54		
					390	380	367	350	331	306	270	226	177	122	64		

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min									
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q	m³/h								
					0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	
4SPM3-6	4SP3-6	0.37	0.5	H(m)	0	10	20	30	40	50	60	70	
4SPM3-9	4SP3-9	0.55	0.75		37	36	34	32	29	26	21	15	
4SPM3-12	4SP3-12	0.75	1		56	54	51	48	44	39	32	23	
4SPM3-15	4SP3-15	0.92	1.25		74	71	68	64	59	52	43	31	
4SPM3-18	4SP3-18	1.1	1.5		93	89	85	80	73	65	53	39	
4SPM3-22	4SP3-22	1.3	1.75		112	107	102	96	88	78	64	46	
4SPM3-25	4SP3-25	1.5	2		136	131	125	117	108	95	78	57	
4SPM3-29	4SP3-29	1.8	2.5		155	149	142	133	122	108	89	65	
4SPM3-33	4SP3-33	2.2	3		180	173	164	154	142	126	103	75	
4SPM3-39	4SP3-39	2.6	3.5		205	196	187	175	162	143	118	85	
4SPM3-45	4SP3-45	3	4		242	232	221	207	191	169	139	101	
-	4SP3-52	3.7	5		279	268	255	239	220	195	160	116	
-	4SP3-60	4	5.5	322	309	295	276	255	225	185	134		
				372	357	340	319	294	260	214	155		



**PERFORMANCE DATA 50Hz**

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min												
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6
				m³/h	0	10	20	30	40	50	60	70	80	90	100	110
4SPM5-4	4SP5-4	0.37	0.5	H(m)	25	24	23	22	21	20	19	18	16	15	12	10
4SPM5-6	4SP5-6	0.55	0.75		37	36	35	33	32	30	28	26	24	22	19	15
4SPM5-8	4SP5-8	0.75	1		49	48	46	44	42	40	38	35	32	29	25	20
4SPM5-12	4SP5-12	1.1	1.5		74	72	69	66	63	60	57	53	48	44	37	31
4SPM5-15	4SP5-15	1.3	1.75		92	89	86	83	79	75	71	66	61	55	47	38
4SPM5-17	4SP5-17	1.5	2		105	101	98	94	90	85	80	75	69	62	53	44
4SPM5-21	4SP5-21	1.8	2.5		129	125	121	116	111	105	99	92	85	76	66	54
4SPM5-25	4SP5-25	2.2	3		154	149	144	138	132	125	118	110	101	91	78	64
4SPM5-29	4SP5-29	2.6	3.5		179	173	167	160	153	145	137	128	117	106	90	74
4SPM5-33	4SP5-33	3	4		203	197	190	182	174	165	156	145	133	120	103	84
-	4SP5-38	3.7	5		234	226	219	210	201	190	179	167	154	138	119	97
-	4SP5-44	4	5.5		271	262	253	243	232	220	208	194	178	160	137	112
-	4SP5-52	5	7		320	310	300	287	275	260	245	229	210	189	162	133
-	4SP5-58	5.5	7.5	357	346	334	320	306	290	274	255	234	211	181	148	



**PERFORMANCE DATA 50Hz**

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min												
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8		
				m³/h	0	20	40	60	80	100	120	140	160	180		
4SPM8-5	4SP8-5	0.75	1	H(m)	30	28	27	26	25	24	22	20	17	13		
4SPM8-7	4SP8-7	1.1	1.5		42	40	38	37	35	33	31	28	24	18		
4SPM8-10	4SP8-10	1.5	2		59	57	55	52	50	47	44	40	34	25		
4SPM8-12	4SP8-12	1.8	2.5		71	68	66	63	60	57	53	48	41	30		
4SPM8-15	4SP8-15	2.2	3		89	85	82	79	75	71	66	60	51	38		
4SPM8-18	4SP8-18	3	4		107	102	98	94	90	85	79	72	61	46		
-	4SP8-21	3.7	5		125	119	115	110	105	100	92	84	71	53		
-	4SP8-25	4	5.5		149	142	137	131	125	118	110	99	85	63		
-	4SP8-30	5	7		178	170	164	157	150	142	132	119	102	76		
-	4SP8-36	5.5	7.5		214	204	197	189	180	171	158	143	122	91		

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min												
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q	0	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18	
				m³/h	0	30	60	90	120	150	180	210	240	270	300	
4SPM14-4	4SP14-4	1.3	1.75	H(m)	26	25	24	23	22	21	20	18	16	14	11	
4SPM14-5	4SP14-5	1.5	2		32	31	29	28	27	26	24	23	20	18	14	
4SPM14-6	4SP14-6	1.8	2.5		38	37	35	34	32	31	29	27	24	21	17	
4SPM14-7	4SP14-7	2.2	3		45	43	41	39	38	36	34	32	28	25	20	
4SPM14-8	4SP14-8	2.6	3.5		51	49	47	45	43	41	39	36	32	28	23	
4SPM14-10	4SP14-10	3	4		64	62	59	56	54	51	49	45	40	35	28	
-	4SP14-13	4	5.5		83	80	76	73	70	67	63	59	53	46	37	
-	4SP14-16	5	7		102	99	94	90	86	82	78	73	65	57	45	
-	4SP14-18	5.5	7.5		115	111	106	101	97	92	88	82	73	64	51	
-	4SP14-21	7.5	10		140	135	129	124	118	113	107	100	90	78	62	
-	4SP14-24	7.5	10		153	148	141	135	129	123	117	109	97	85	68	

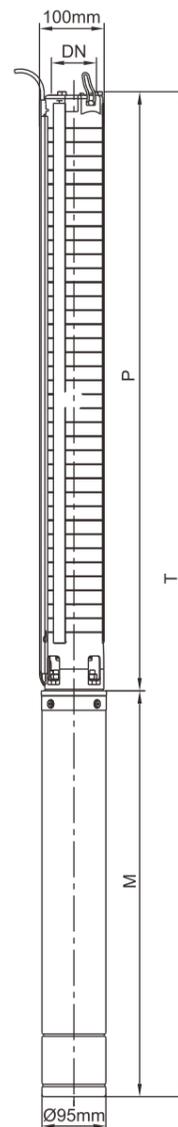
DIMENSION AND WEIGHT

MODEL		DN	DIMENSION(mm)					WEIGHT(kg)				
1~ 220 - 240V	3~ 380 - 415V		P	M(S)	M(T)	T(S)	T(T)	P	M(S)	M(T)	T(S)	T(T)
4SPM2-6	4SP2-6	1¼"1½"	281	304	304	585	585	2.5	6.6	6.6	9.1	9.1
4SPM2-9	4SP2-9	1¼"1½"	344	304	304	648	648	3.1	6.6	7.3	9.7	9.7
4SPM2-13	4SP2-13	1¼"1½"	428	319	319	747	747	4.0	7.3	7.9	11.3	11.3
4SPM2-18	4SP2-18	1¼"1½"	533	349	334	882	867	5.1	8.7	8.7	13.8	13.0
4SPM2-23	4SP2-23	1¼"1½"	628	389	369	1017	997	6.1	10.6	9.8	16.7	15.9
4SPM2-28	4SP2-28	1¼"1½"	743	414	389	1157	1132	7.2	11.5	10.6	18.7	17.8
4SPM2-33	4SP2-33	1¼"1½"	848	439	414	1287	1262	8.1	12.7	11.5	20.8	19.6
4SPM2-40	4SP2-40	1¼"1½"	995	474	439	1469	1434	9.8	14.4	12.7	24.2	22.5
4SPM2-48	4SP2-48	1¼"1½"	1163	514	474	1677	1637	11.5	16.4	14.4	27.9	25.9
4SPM2-55	4SP2-55	1¼"1½"	1310	554	514	1864	1824	13.0	19.8	16.4	32.8	29.4
4SPM2-65	4SP2-65	1¼"1½"	1520	589	554	2109	2074	15.2	21.5	19.8	36.7	35.0

MODEL		DN	DIMENSION(mm)					WEIGHT(kg)				
1~ 220 - 240V	3~ 380 - 415V		P	M(S)	M(T)	T(S)	T(T)	P	M(S)	M(T)	T(S)	T(T)
4SPM3-6	4SP3-6	1¼"1½"	281	304	304	585	585	2.5	6.6	6.6	9.1	9.1
4SPM3-9	4SP3-9	1¼"1½"	344	319	319	663	663	3.2	7.3	7.3	10.5	10.5
4SPM3-12	4SP3-12	1¼"1½"	407	349	334	756	741	3.8	8.7	7.9	12.5	11.7
4SPM3-15	4SP3-15	1¼"1½"	470	369	349	839	819	4.5	9.8	8.7	14.3	13.2
4SPM3-18	4SP3-18	1¼"1½"	533	389	369	922	902	5.1	10.6	9.8	15.7	14.9
4SPM3-22	4SP3-22	1¼"1½"	617	414	389	1031	1006	6.0	11.5	10.6	17.5	16.6
4SPM3-25	4SP3-25	1¼"1½"	680	439	414	1119	1094	6.6	12.7	11.5	19.3	18.1
4SPM3-29	4SP3-29	1¼"1½"	764	474	439	1238	1203	7.5	14.4	12.7	21.9	20.2
4SPM3-33	4SP3-33	1¼"1½"	848	514	474	1362	1322	8.4	16.4	14.4	24.8	22.8
4SPM3-39	4SP3-39	1¼"1½"	974	554	514	1528	1488	9.7	19.8	16.4	29.5	26.1
4SPM3-45	4SP3-45	1¼"1½"	1100	589	554	1689	1654	11.0	21.5	19.8	32.5	30.8
-	4SP3-52	1¼"1½"	1247	-	589	-	1836	12.5	-	21.5	-	34.0
-	4SP3-60	1¼"1½"	1415	-	629	-	2044	14.3	-	23.0	-	37.3

MODEL		DN	DIMENSION(mm)					WEIGHT(kg)				
1~ 220 - 240V	3~ 380 - 415V		P	M(S)	M(T)	T(S)	T(T)	P	M(S)	M(T)	T(S)	T(T)
4SPM5-4	4SP5-4	1¼"1½"	251	304	304	555	555	2.2	6.6	6.6	8.8	8.8
4SPM5-6	4SP5-6	1¼"1½"	299	319	319	618	618	2.6	7.3	7.3	9.9	9.9
4SPM5-8	4SP5-8	1¼"1½"	347	349	334	696	681	3.1	8.7	7.9	11.8	11.0
4SPM5-12	4SP5-12	1¼"1½"	443	389	369	832	812	4.0	10.6	9.8	14.6	13.8
4SPM5-15	4SP5-15	1¼"1½"	515	414	389	929	904	4.7	11.5	10.6	16.2	15.3
4SPM5-17	4SP5-17	1¼"1½"	563	439	414	1002	977	5.1	12.7	11.5	17.8	16.6
4SPM5-21	4SP5-21	1¼"1½"	659	474	439	1133	1098	6.1	14.4	12.7	20.5	18.8
4SPM5-25	4SP5-25	1¼"1½"	755	514	474	1269	1229	7.0	16.4	14.4	23.4	21.4
4SPM5-29	4SP5-29	1¼"1½"	851	554	514	1405	1365	7.9	19.8	16.4	27.7	24.3
4SPM5-33	4SP5-33	1¼"1½"	947	589	554	1536	1501	8.8	21.5	19.8	30.3	28.6
-	4SP5-38	1¼"1½"	1067	-	589	-	1656	10.0	-	21.5	-	31.5
-	4SP5-44	1¼"1½"	1208	-	629	-	1837	11.3	-	23.0	-	34.3
-	4SP5-52	1¼"1½"	1397	-	669	-	2066	13.2	-	25.1	-	38.3
-	4SP5-58	1¼"1½"	1538	-	719	-	2257	14.5	-	28.0	-	42.5

- M(S) is single phase motor, M(T) is three phase motor.
- T(S) is single phase motor, T(T) is three phase motor.

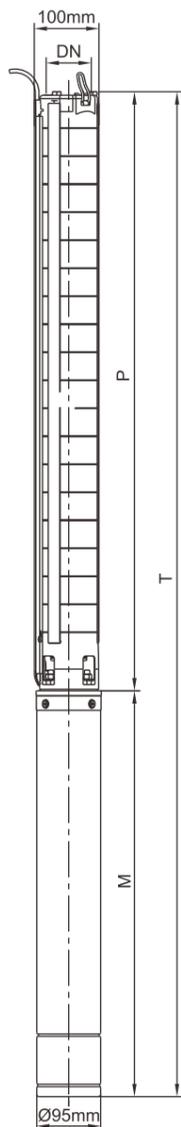


DIMENSION AND WEIGHT

MODEL		DN	DIMENSION(mm)					WEIGHT(kg)				
1~ 220 - 240V	3~ 380 - 415V		P	M(S)	M(T)	T(S)	T(T)	P	M(S)	M(T)	T(S)	T(T)
4SPM8-5	4SP8-5	1½"1/2"	415	349	334	764	749	4.4	8.7	7.9	13.1	12.3
4SPM8-7	4SP8-7	1½"1/2"	499	389	369	888	868	5.0	10.6	9.8	15.6	14.8
4SPM8-10	4SP8-10	1½"1/2"	625	439	414	1064	1039	6.0	12.7	11.5	18.7	17.5
4SPM8-12	4SP8-12	1½"1/2"	709	474	439	1183	1148	6.7	14.4	12.7	21.1	19.4
4SPM8-15	4SP8-15	1½"1/2"	835	514	474	1349	1309	7.7	16.4	14.4	24.1	22.1
4SPM8-18	4SP8-18	1½"1/2"	961	589	554	1550	1512	8.7	21.5	19.8	30.2	28.5
-	4SP8-21	1½"1/2"	1087	-	589	-	1676	9.7	-	21.5	-	31.2
-	4SP8-25	1½"1/2"	1213	-	629	-	1842	10.7	-	23.0	-	33.7
-	4SP8-30	1½"1/2"	1465	-	669	-	2134	12.7	-	25.1	-	37.8
-	4SP8-36	1½"1/2"	1717	-	719	-	2436	14.7	-	28.0	-	42.7

MODEL		DN	DIMENSION(mm)					WEIGHT(kg)				
1~ 220 - 240V	3~ 380 - 415V		P	M(S)	M(T)	T(S)	T(T)	P	M(S)	M(T)	T(S)	T(T)
4SPM14-4	4SP14-4	1½"1/2"	544	414	389	958	933	4.1	11.5	10.6	15.6	14.7
4SPM14-5	4SP14-5	1½"1/2"	628	439	414	1067	1042	4.4	12.7	11.5	17.1	15.9
4SPM14-6	4SP14-6	1½"1/2"	754	474	439	1228	1193	4.7	14.4	12.7	19.1	17.4
4SPM14-7	4SP14-7	1½"1/2"	838	514	474	1352	1312	5.0	16.4	14.4	21.4	19.4
4SPM14-8	4SP14-8	1½"1/2"	922	554	514	1476	1436	5.3	19.8	16.4	25.1	21.7
4SPM14-10	4SP14-10	1½"1/2"	1006	589	554	1595	1560	6.0	21.5	19.8	27.5	25.8
-	4SP14-13	1½"1/2"	1258	-	629	-	1887	7.0	-	23.0	-	30.0
-	4SP14-16	1½"1/2"	1510	-	669	-	2179	7.9	-	25.1	-	33.0
-	4SP14-18	1½"1/2"	1678	-	719	-	2397	8.5	-	28.0	-	36.5
-	4SP14-22	1½"1/2"	1980	-	839	-	2819	9.6	-	34.6	-	44.2
-	4SP14-24	1½"1/2"	2182	-	839	-	3021	10.3	-	34.6	-	44.9

- M(S) is single phase motor, M(T) is three phase motor.
- T(S) is single phase motor, T(T) is three phase motor.



# 5SA

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +35°C  
 Maximum sand content: 0.25%  
 Minimum well diameter: 5"

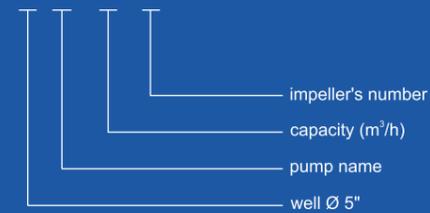
## Motor and Pump

Rewindable motor  
**Three-phase:** 380 - 415V/50Hz  
 Equip with start control box or digital auto-control box  
 Curve tolerance according to ISO 9906

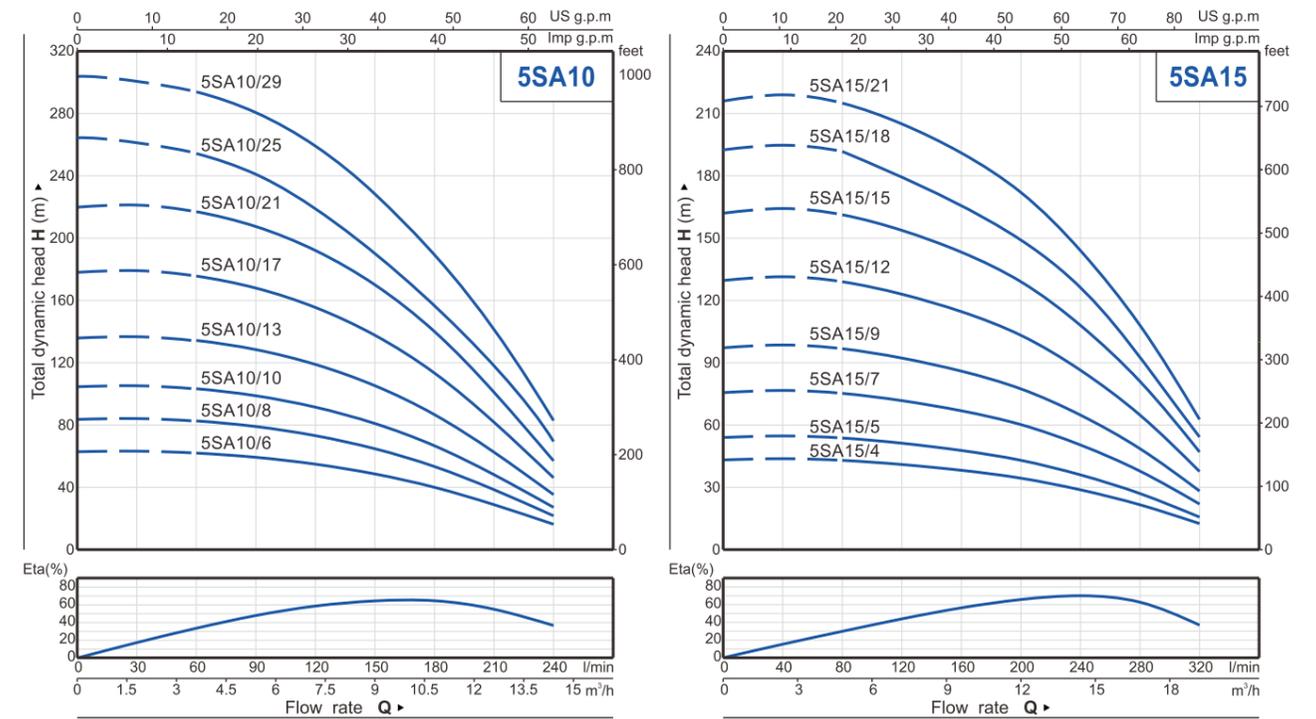
## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz

### 5 SA 10/6



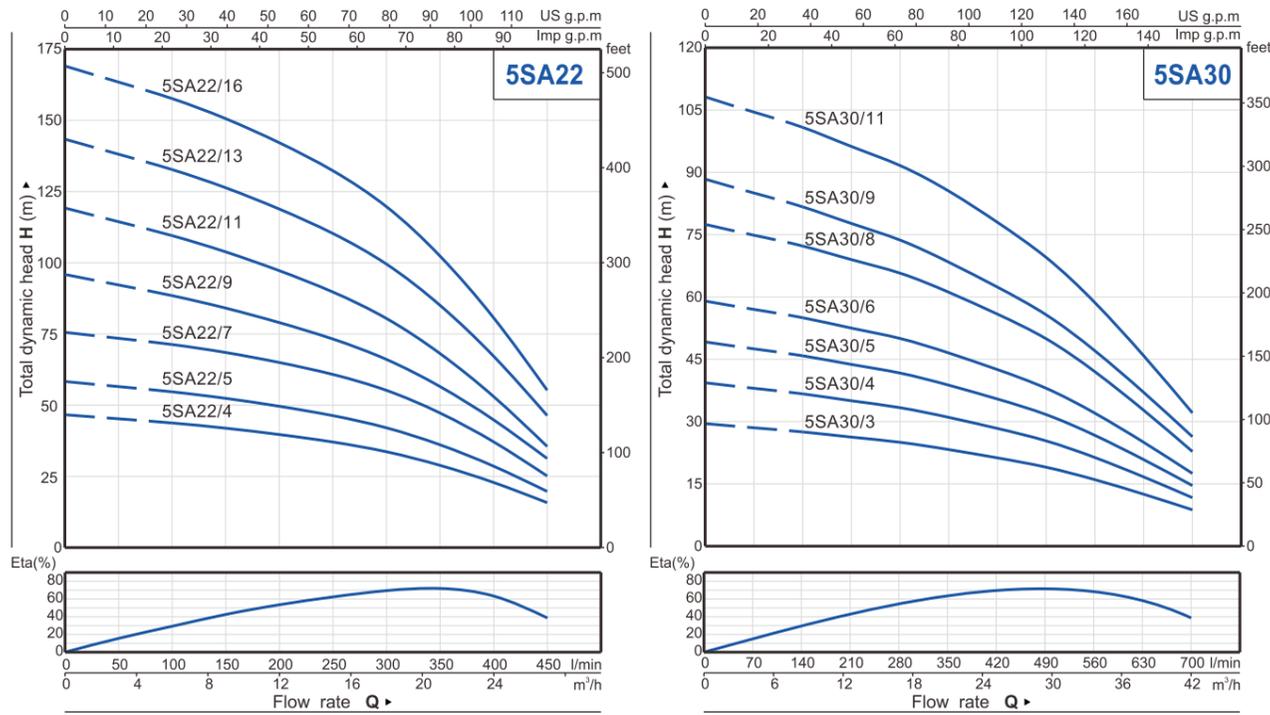
Components	Material
Pump external casing	AISI 304 SS
Delivery casing	AISI 304 SS
Suction lantern	AISI 304 SS
Diffuser	Plastic.PC
Impeller	Plastic.POM
Shaft	AISI 304 SS
Shaft coupling	AISI 304 SS
Wear ring	AISI 304 SS
Motor external casing	AISI 304 SS
Top chock	Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Special seal for deep well(Graphite-Ceramic)
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.



## PERFORMANCE DATA 50Hz

MODEL	P <sub>2</sub>		Q	DELIVERY									
	kW	HP		n≈2850 1/min									
3~380 - 415V			m <sup>3</sup> /h l/min	0	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	
5SA10/6	1.5	2		63	63	62	59	55	49	40	29	16	
5SA10/8	2.2	3		84	84	83	79	73	65	53	38	22	
5SA10/10	3	4		105	105	103	99	91	81	67	48	27	
5SA10/13	4	5.5		136	137	134	128	119	105	87	62	35	
5SA10/17	5.5	7.5		178	179	176	168	155	138	113	81	46	
5SA10/21	7.5	10		220	221	217	207	192	170	140	101	57	
5SA10/25	9.2	12.5		262	263	259	247	228	203	166	120	68	
5SA10/29	11	15		304	305	300	286	265	235	193	139	79	

MODEL	P <sub>2</sub>		Q	DELIVERY									
	kW	HP		n≈2850 1/min									
3~380 - 415V			m <sup>3</sup> /h l/min	0	2.4	4.8	7.2	9.6	12.0	14.4	16.8	19.2	
5SA15/4	1.5	2		43	44	43	41	38	34	29	22	13	
5SA15/5	2.2	3		54	55	54	51	48	43	36	27	17	
5SA15/7	3	4		76	77	75	72	67	60	50	38	23	
5SA15/9	4	5.5		97	99	97	92	86	78	65	48	30	
5SA15/12	5.5	7.5		130	131	129	123	115	103	86	65	40	
5SA15/15	7.5	10		162	164	161	154	144	129	108	81	50	
5SA15/18	9.2	12.5		195	197	194	184	172	155	129	97	60	
5SA15/21	11	15		227	230	226	215	201	181	151	113	70	



PERFORMANCE DATA 50Hz

MODEL	P <sub>2</sub>		Q	DELIVERY n≈2850 1/min												
	kW	HP		0	3	6	9	12	15	18	21	24	27			
3~380-415V			m³/h l/min	0	50	100	150	200	250	300	350	400	450			
5SA22/4	2.2	3	H(m)	43	41	40	38	36	34	31	26	21	14			
5SA22/5	3	4		53	52	50	48	45	43	39	33	26	18			
5SA22/7	4	5.5		75	73	70	67	64	60	54	46	36	25			
5SA22/9	5.5	7.5		96	93	90	86	82	77	69	59	47	32			
5SA22/11	7.5	10		117	114	110	105	100	94	85	72	57	39			
5SA22/13	9.2	12.5		138	135	130	124	118	110	100	85	68	46			
5SA22/16	11	15		170	166	160	153	145	136	123	105	83	57			

MODEL	P <sub>2</sub>		Q	DELIVERY n≈2850 1/min									
	kW	HP		0	6	12	18	24	30	36	42		
3~380-415V			m³/h l/min	0	100	200	300	400	500	600	700		
5SA30/3	2.2	3	H(m)	29	28	26	25	22	19	14	9		
5SA30/4	3	4		39	38	35	33	29	25	19	12		
5SA30/5	4	5.5		49	47	44	41	36	31	23	15		
5SA30/6	5.5	7.5		59	57	53	49	44	37	28	17		
5SA30/8	7.5	10		79	76	71	65	58	49	37	23		
5SA30/9	9.2	12.5		88	85	79	74	65	56	42	26		
5SA30/11	11	15		108	104	97	90	80	68	51	32		

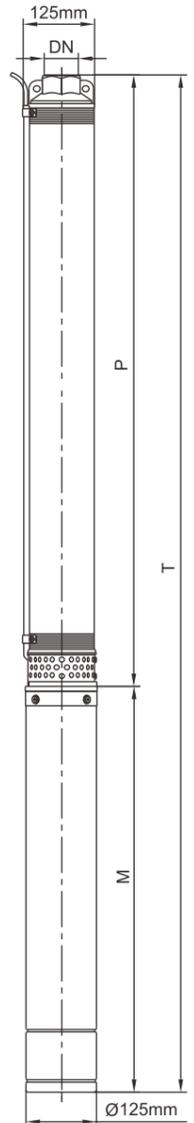
DIMENSION AND WEIGHT

MODEL	DN	DIMENSION(mm)			WEIGHT(kg)		
		P	M	T	P	M	T
3~380-415V							
5SA10/6	2"	499	397	896	5.7	14.5	20.2
5SA10/8	2"	567	432	999	6.6	17.8	24.4
5SA10/10	2"	635	472	1107	7.5	21.7	29.2
5SA10/13	2"	737	532	1269	8.8	27.3	36.1
5SA10/17	2"	872	602	1474	10.5	31.1	41.6
5SA10/21	2"	1008	697	1705	12.2	39.2	51.4
5SA10/25	2"	1145	792	1937	13.9	47.3	61.2
5SA10/29	2"	1279	872	2117	15.6	54.1	69.7

MODEL	DN	DIMENSION(mm)			WEIGHT(kg)		
		P	M	T	P	M	T
3~380-415V							
5SA15/4	2"1/2"	455	397	852	4.8	14.5	19.3
5SA15/5	2"1/2"	493	432	925	5.3	17.8	23.1
5SA15/7	2"1/2"	570	472	1042	6.3	21.7	28.0
5SA15/9	2"1/2"	647	532	1179	7.3	27.3	34.6
5SA15/12	2"1/2"	762	602	1364	8.8	31.1	39.9
5SA15/15	2"1/2"	877	697	1574	10.3	39.2	49.5
5SA15/18	2"1/2"	993	792	1785	11.8	47.3	59.1
5SA15/21	2"1/2"	1108	872	1980	13.3	54.1	67.4

MODEL	DN	DIMENSION(mm)			WEIGHT(kg)		
		P	M	T	P	M	T
3~380-415V							
5SA22/4	2"1/2"	486	432	918	5.7	14.5	20.2
5SA22/5	2"1/2"	532	472	1004	6.2	17.8	24.0
5SA22/7	2"1/2"	625	532	1157	7.2	21.7	28.9
5SA22/9	2"1/2"	718	602	1320	8.2	27.3	35.5
5SA22/11	2"1/2"	811	697	1508	9.2	31.1	40.3
5SA22/13	2"1/2"	904	792	1696	10.2	39.2	49.4
5SA22/16	2"1/2"	1043	812	1855	11.7	47.3	59.0

MODEL	DN	DIMENSION(mm)			WEIGHT(kg)		
		P	M	T	P	M	T
3~380-415V							
5SA30/3	2 1/2" 1/3"	564	432	996	9.4	14.5	22.4
5SA30/4	2 1/2" 1/3"	652	472	1124	10.0	17.8	26.6
5SA30/5	2 1/2" 1/3"	740	532	1272	10.6	21.7	31.4
5SA30/6	2 1/2" 1/3"	828	602	1430	11.2	27.3	37.9
5SA30/8	2 1/2" 1/3"	1058	697	1755	12.4	31.1	43.5
5SA30/9	2 1/2" 1/3"	1150	792	1942	13.3	39.2	52.5
5SA30/11	2 1/2" 1/3"	1322	812	2134	14.5	47.3	61.8



# 6SA

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +35°C  
 Maximum sand content: 0.25%  
 Minimum well diameter: 6"

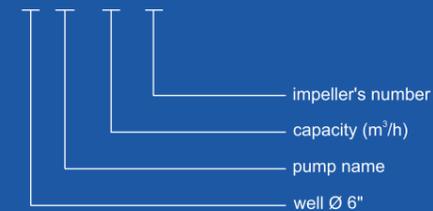
## Motor and Pump

Rewindable motor  
**Three-phase:** 380 - 415V/50Hz  
 Equip with start control box or digital auto-control box  
 Curve tolerance according to ISO 9906

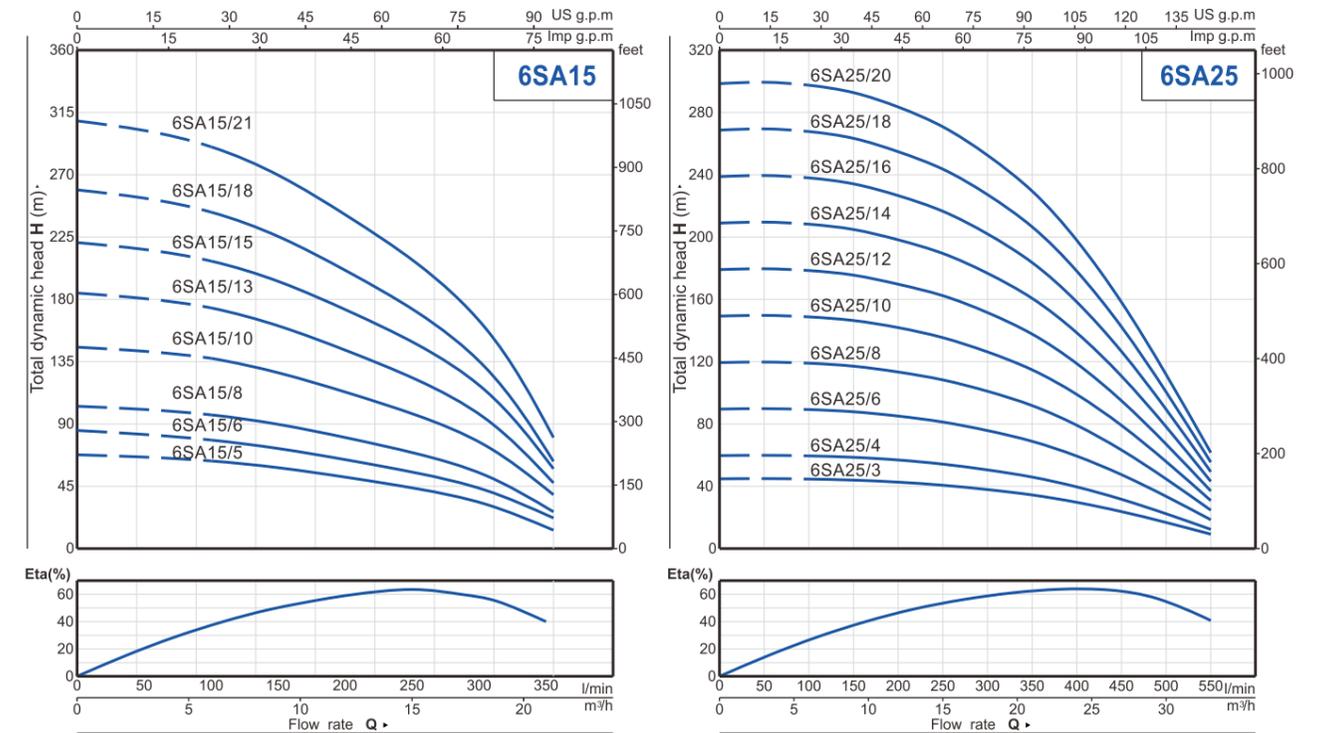
## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz

## 6 SA 15/5



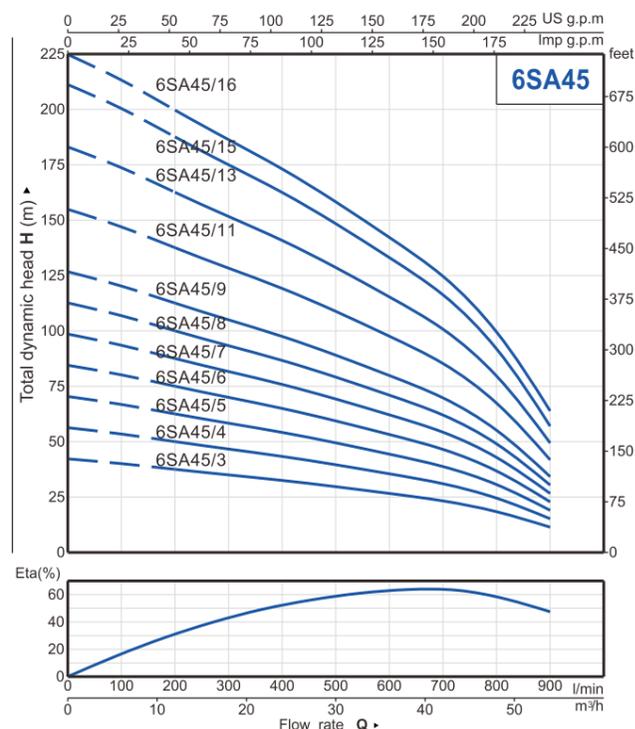
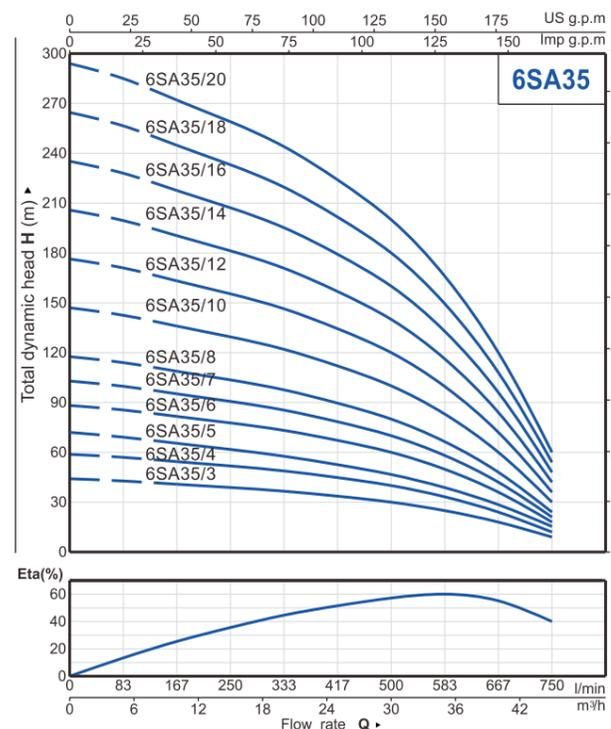
Components	Material
Pump external casing	AISI 304 SS
Delivery casing	AISI 304 SS
Suction lantern	AISI 304 SS
Diffuser	Plastic.PC
Impeller	Plastic.POM
Shaft	AISI 304 SS
Shaft coupling	AISI 304 SS
Wear ring	AISI 304 SS
Motor external casing	AISI 304 SS
Top chock	Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Special seal for deep well(Graphite-Ceramic)
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.



## PERFORMANCE DATA 50Hz

MODEL	P <sub>2</sub>		DELIVERY											
	kW	HP	n≈2850 1/min											
3~ 380 - 415V			Q	0	3	6	9	12	15	18	21	24		
			m³/h l/min	0	50	100	150	200	250	300	350	400	450	500
6SA15/5	3	4	H(m)	75	76	75	70	65	57	47	35	19		
6SA15/6	4	5.5		89	91	90	84	78	69	57	41	23		
6SA15/8	5.5	7.5		119	121	120	112	104	91	75	55	31		
6SA15/10	7.5	10		149	151	150	140	130	114	94	69	39		
6SA15/13	9.2	12.5		194	197	194	183	168	149	123	90	50		
6SA15/15	11	15		224	227	224	211	194	171	141	104	58		
6SA15/18	13	17.5		268	273	269	253	233	206	170	124	69		
6SA15/21	15	20		313	318	314	295	272	240	198	145	81		

MODEL	P <sub>2</sub>		DELIVERY													
	kW	HP	n≈2850 1/min													
3~ 380 - 415V			Q	0	3	6	9	12	15	18	21	24	27	30	33	
			m³/h l/min	0	50	100	150	200	250	300	350	400	450	500	550	
6SA25/3	3	4	H(m)	45	45	45	44	42	41	38	34	29	23	16	9	
6SA25/4	4	5.5		60	60	60	58	56	54	50	45	39	30	22	12	
6SA25/6	5.5	7.5		90	90	89	88	85	81	76	67	58	45	33	18	
6SA25/8	7.5	10		120	120	119	117	113	108	101	89	78	60	44	24	
6SA25/10	9.2	12.5		150	150	149	146	141	135	126	111	97	75	54	30	
6SA25/12	11	15		179	180	179	175	169	162	151	134	117	90	65	36	
6SA25/14	13	17.5		209	210	209	204	197	189	176	156	136	105	76	42	
6SA25/16	15	20		239	240	238	234	226	216	202	178	156	120	87	48	
6SA25/18	18.5	25		269	270	268	263	254	243	227	201	176	135	98	54	
6SA25/20	18.5	25		299	300	298	292	282	270	252	223	195	150	109	60	



PERFORMANCE DATA 50Hz

MODEL	P <sub>2</sub>		Q	DELIVERY n≈2850 1/min											
	kW	HP		m³/h	0	5	10	15	20	25	30	35	40	45	
3~380 - 415V			l/min	0	83	167	250	333	417	500	583	667	750		
6SA35/3	4	5.5	H(m)	44	43	41	39	37	34	30	25	18	9		
6SA35/4	5.5	7.5		59	57	54	52	49	45	40	33	24	12		
6SA35/5	5.5	7.5		74	71	68	65	61	56	50	41	30	15		
6SA35/6	7.5	10		88	86	82	78	73	67	60	50	36	18		
6SA35/7	9.2	12.5		103	100	95	91	85	78	70	58	42	21		
6SA35/8	11	15		118	114	109	104	98	90	80	66	48	24		
6SA35/10	13	17.5		147	143	136	130	122	112	100	83	60	30		
6SA35/12	15	20		176	171	163	155	146	134	120	100	72	36		
6SA35/14	18.5	25		206	200	190	181	171	157	140	116	84	42		
6SA35/16	18.5	25		235	228	218	207	195	179	160	133	96	48		
6SA35/18	22	30		265	257	245	233	220	202	180	149	108	54		
6SA35/20	22	30		294	285	272	259	244	224	200	166	120	60		

MODEL	P <sub>2</sub>		Q	DELIVERY n≈2850 1/min											
	kW	HP		m³/h	0	6	12	18	24	30	36	42	48	54	
3~380 - 415V			l/min	0	100	200	300	400	500	600	700	800	900		
6SA45/3	5.5	7.5	H(m)	42	40	38	35	33	30	27	23	18	11		
6SA45/4	7.5	10		56	53	50	47	44	40	36	31	25	15		
6SA45/5	9.2	12.5		70	67	63	58	54	49	44	39	31	19		
6SA45/6	11	15		84	80	75	70	65	59	53	47	37	23		
6SA45/7	13	17.5		98	93	88	82	76	69	62	54	43	26		
6SA45/8	13	17.5		113	107	101	94	87	79	71	62	49	30		
6SA45/9	15	20		127	120	113	105	98	89	80	70	55	34		
6SA45/11	18.5	25		155	146	138	129	120	109	98	85	67	41		
6SA45/13	22	30		183	173	163	152	141	128	115	101	80	49		
6SA45/15	26	35		211	200	188	175	163	148	133	116	92	56		
6SA45/16	26	35		225	213	201	187	174	158	142	124	98	60		

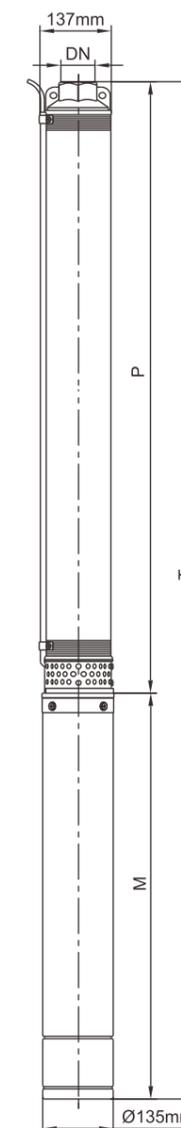
DIMENSION AND WEIGHT

MODEL	DN	DIMENSION(mm)			WEIGHT(kg)		
		P	M	T	P	M	T
3~380 - 415V							
6SA15/5	3"/4"	538	498	1036	7.8	23.1	30.9
6SA15/6	3"/4"	575	538	1113	8.4	27.6	36.0
6SA15/8	3"/4"	651	593	1244	9.6	33.4	43.0
6SA15/10	3"/4"	728	685	1413	10.8	40.2	51.0
6SA15/13	3"/4"	842	760	1602	12.6	48.1	60.7
6SA15/15	3"/4"	918	835	1753	13.8	55.2	69.0
6SA15/18	3"/4"	1033	910	1943	15.6	62.7	78.3
6SA15/21	3"/4"	1147	985	2132	17.4	70.4	87.8

6SA25/3	3"/4"	489	498	987	6.7	23.1	29.8
6SA25/4	3"/4"	536	538	1074	7.5	27.6	35.1
6SA25/6	3"/4"	630	593	1223	9.1	33.4	42.5
6SA25/8	3"/4"	725	685	1410	10.7	40.2	50.9
6SA25/10	3"/4"	819	760	1579	11.7	48.1	59.8
6SA25/12	3"/4"	914	835	1749	13.3	55.2	68.5
6SA25/14	3"/4"	1009	910	1919	14.5	62.7	77.2
6SA25/16	3"/4"	1104	985	2089	16.1	70.4	86.5
6SA25/18	3"/4"	1199	1135	2334	17.7	83.3	101.0
6SA25/20	3"/4"	1294	1135	2429	19.3	83.3	102.6

6SA35/3	3"/4"	463	538	1001	7.1	27.6	34.7
6SA35/4	3"/4"	580	593	1173	8.0	33.4	41.4
6SA35/5	3"/4"	638	593	1231	8.9	33.4	42.3
6SA35/6	3"/4"	695	685	1380	9.8	40.2	50.0
6SA35/7	3"/4"	754	760	1514	10.7	48.1	58.8
6SA35/8	3"/4"	812	835	1647	11.6	55.2	66.8
6SA35/10	3"/4"	928	910	1838	12.9	62.7	75.6
6SA35/12	3"/4"	1045	985	2030	14.7	70.4	85.1
6SA35/14	3"/4"	1162	1135	2297	16.5	83.3	99.8
6SA35/16	3"/4"	1279	1135	2414	18.3	83.3	101.6
6SA35/18	3"/4"	1396	1235	2631	20.1	91.9	112.0
6SA35/20	3"/4"	1513	1235	2748	21.9	91.9	113.8

6SA45/3	3"/4"	554	593	1147	7.6	33.4	41.0
6SA45/4	3"/4"	623	685	1308	8.6	40.2	48.8
6SA45/5	3"/4"	692	760	1452	9.6	48.1	57.7
6SA45/6	3"/4"	761	835	1596	10.5	55.2	65.7
6SA45/7	3"/4"	831	910	1741	11.5	62.7	74.2
6SA45/8	3"/4"	900	910	1810	12.4	62.7	75.1
6SA45/9	3"/4"	969	985	1954	13.3	70.4	83.7
6SA45/11	3"/4"	1107	1135	2242	15.2	83.3	98.5
6SA45/13	3"/4"	1245	1235	2480	17.3	91.9	109.2
6SA45/15	3"/4"	1384	1385	2769	19.3	104.8	124.1
6SA45/16	3"/4"	1453	1385	2838	20.0	104.8	124.8



# 6SP

## Applications

For water supply from wells or reservoirs  
For domestic use, for civil and industrial applications  
For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +50°C  
Maximum sand content: 0.25%  
Minimum well diameter: 6"

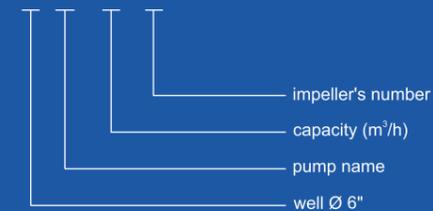
## Motor and Pump

Rewindable motor  
**Three-phase:** 380 - 415V/50Hz  
Star-delta start (2 cables)  
Equip with start control box or digital auto-control box  
**NEMA** dimension standards  
Curve tolerance according to ISO 9906

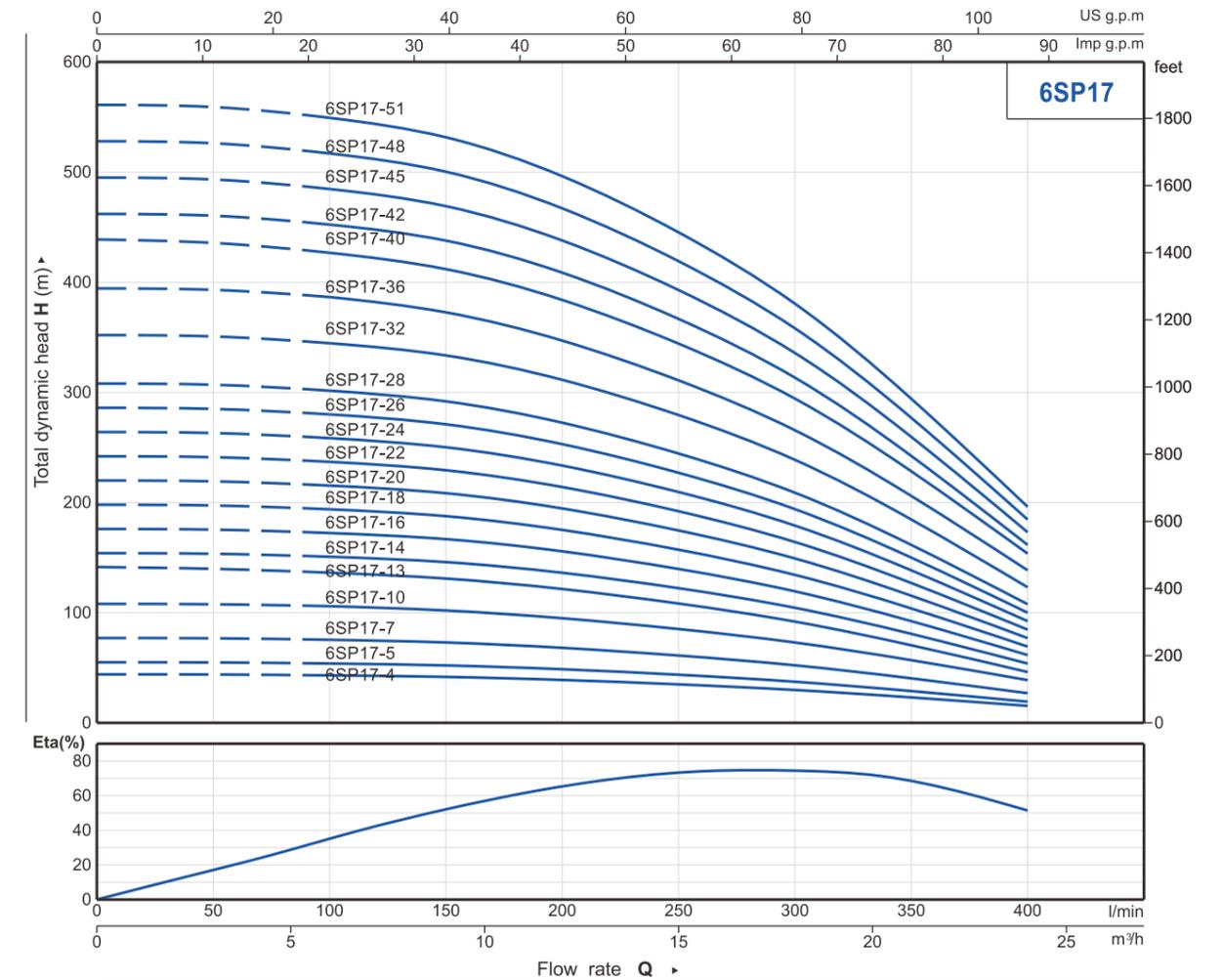
## Options on request

Special mechanical seal  
Other voltages or frequency 60Hz

## 6 SP 17 / 4

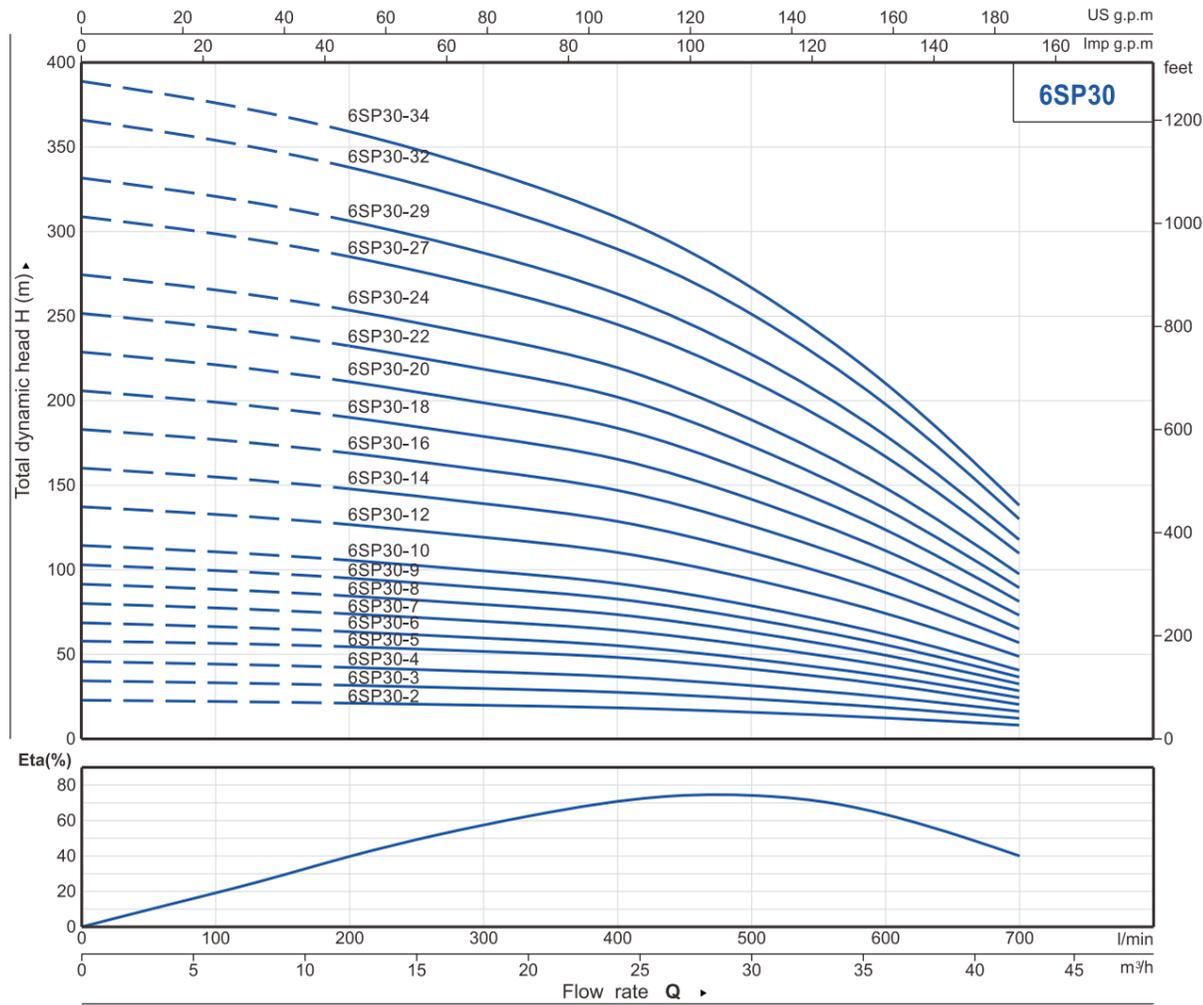


Components	Material
Delivery casing	AISI 304 SS
Suction lantern	AISI 304 SS
Diffuser	AISI 304 SS
Impeller	AISI 304 SS
Shaft	AISI 304 SS
Shaft coupling	AISI 304 SS
Wear ring	Rubber
Motor external casing	AISI 304 SS
Top chock	Cast-iron ASTM NO.30
Bottom support	Cast-iron ASTM NO.30
Seal	NBR Graphite-SiC/TC
Shaft	AISI 304 SS-ASTM 5140



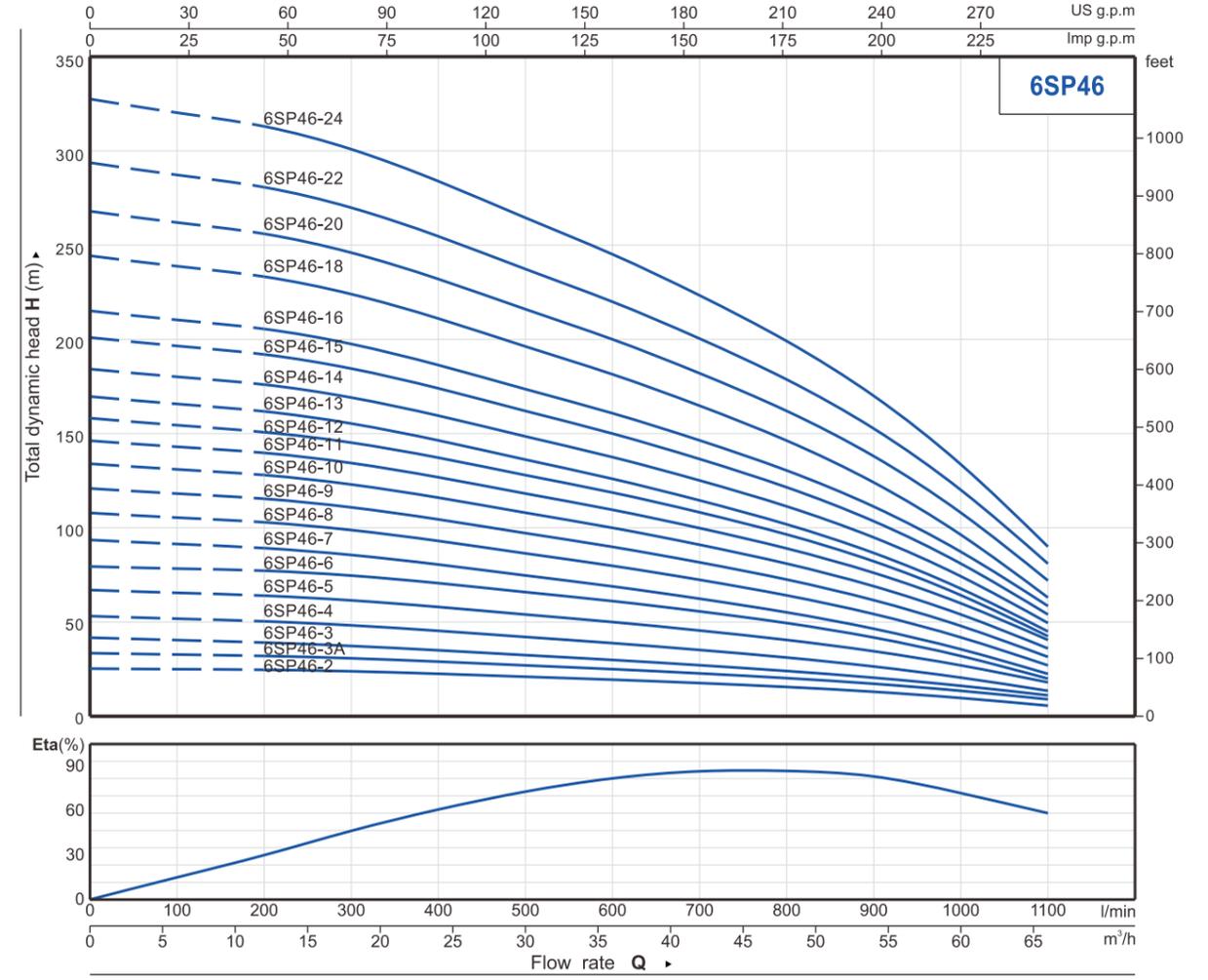
## PERFORMANCE DATA 50Hz

MODEL	P <sub>2</sub>		Q	DELIVERY												
	kW	HP		n≈2850 1/min												
3~380 - 415V			m³/h l/min	0	3	6	9	12	15	18	21	24				
6SP17-4	2.2	3		44	44	43	42	39	35	30	23	15				
6SP17-5	3	4		55	55	54	52	49	44	37	29	19				
6SP17-7	4	5.5		77	77	75	73	68	61	52	40	27				
6SP17-10	5.5	7.5		110	110	108	104	97	87	75	58	38				
6SP17-13	7.5	10		143	143	140	136	127	114	97	75	50				
6SP17-14	9.2	12.5		154	153	151	146	136	122	105	81	54				
6SP17-16	9.2	12.5		176	175	172	167	156	140	120	92	61				
6SP17-18	11	15		198	197	194	188	175	157	134	104	69				
6SP17-20	11	15		220	219	215	209	195	175	149	115	77				
6SP17-22	13	17.5	H(m)	242	241	237	229	214	192	164	127	85				
6SP17-24	15	20		264	263	258	250	233	209	179	138	92				
6SP17-26	15	20		286	285	280	271	253	227	194	150	100				
6SP17-28	18.5	25		308	307	301	292	272	244	209	161	108				
6SP17-32	18.5	25		352	351	344	334	311	279	239	184	123				
6SP17-36	22	30		396	395	388	375	350	314	269	208	138				
6SP17-40	22	30		440	438	431	417	389	349	298	231	154				
6SP17-42	26	35		462	460	452	438	408	366	314	242	161				
6SP17-45	26	35		495	493	484	469	438	393	336	259	173				
6SP17-48	30	40		528	526	517	501	467	419	359	277	184				
6SP17-51	30	40		561	559	549	532	496	445	381	294	196				



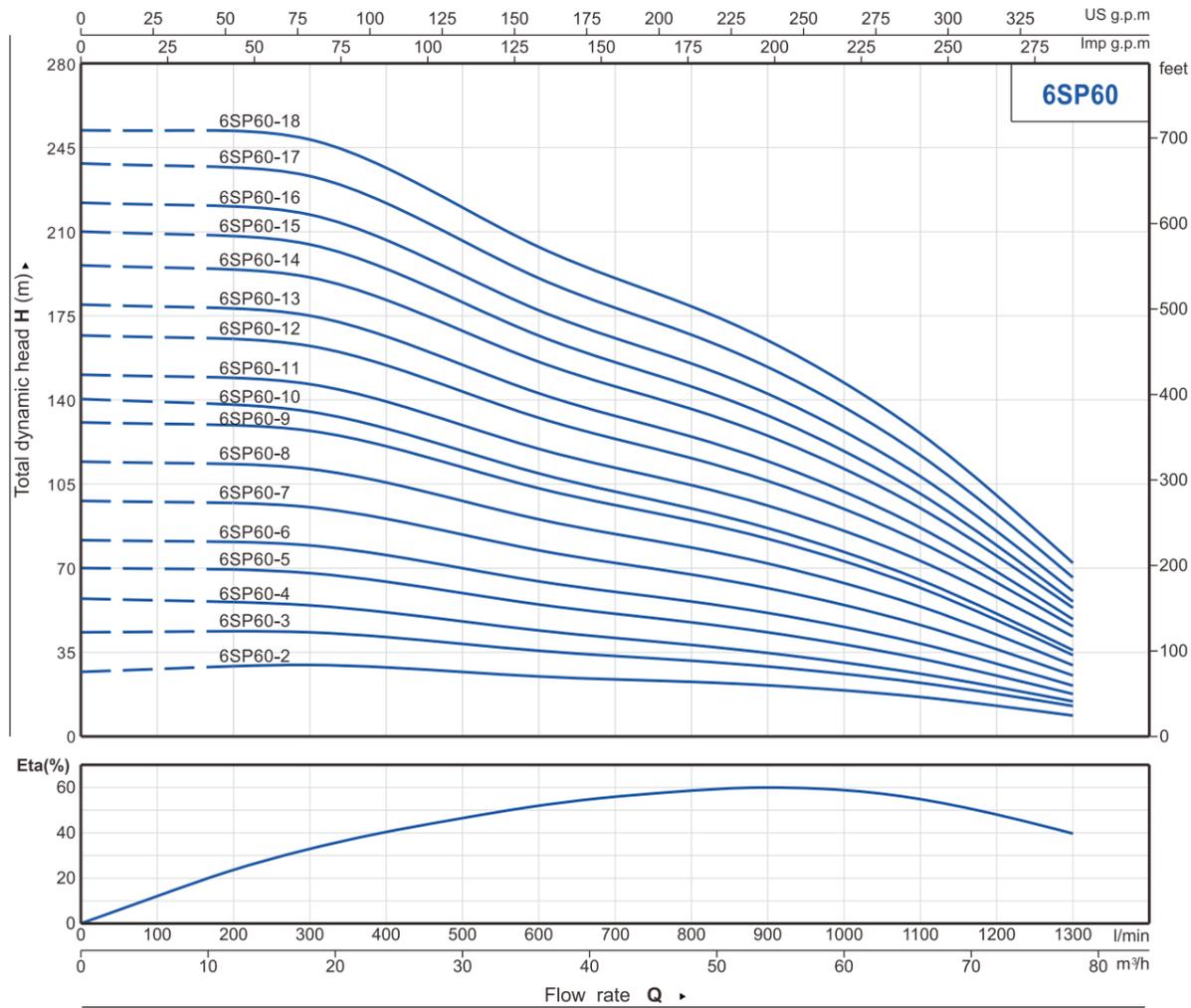
PERFORMANCE DATA 50Hz

MODEL	P <sub>2</sub>		Q	DELIVERY n≈2850 1/min																		
	kW	HP		m³/h	H(m)																	
					0	6	12	18	24	30	36	42										
3 ~ 380 - 415V			l/min	0	100	200	300	400	500	600	700											
6SP30-2	2.2	3		23	22	21	19	18	15	11	7											
6SP30-3	3	4		34	33	31	29	27	23	17	11											
6SP30-4	4	5.5		46	44	42	39	36	31	23	14											
6SP30-5	5.5	7.5		57	56	52	48	44	38	29	18											
6SP30-6	5.5	7.5		68	67	63	58	53	46	34	21											
6SP30-7	7.5	10		80	78	73	68	62	54	40	25											
6SP30-8	7.5	10		91	89	84	77	71	61	46	28											
6SP30-9	9.2	12.5		102	100	94	87	80	69	52	32											
6SP30-10	9.2	12.5		114	111	105	96	89	76	57	35											
6SP30-12	11	15		137	133	126	116	107	92	69	42											
6SP30-14	13	17.5		159	156	147	135	124	107	80	49											
6SP30-16	15	20		182	178	168	154	142	122	92	56											
6SP30-18	18.5	25		205	200	189	174	160	138	103	64											
6SP30-20	18.5	25		228	222	210	193	178	153	115	71											
6SP30-22	22	30		250	245	231	212	195	168	126	78											
6SP30-24	22	30		273	267	252	232	213	184	138	85											
6SP30-27	26	35		307	300	284	260	240	206	155	95											
6SP30-29	26	35		330	322	305	280	258	222	166	102											
6SP30-32	30	40		364	356	336	309	284	245	184	113											
6SP30-34	30	40		387	378	357	328	302	260	195	120											



PERFORMANCE DATA 50Hz

MODEL	P <sub>2</sub>		Q	DELIVERY n≈2850 1/min																		
	kW	HP		m³/h	H(m)																	
					0	6	12	18	24	30	36	42	48	54	60	66						
3 ~ 380 - 415V			l/min	0	100	200	300	400	500	600	700	800	900	1000	1100							
6SP46-2	3	4		27	26	26	25	23	22	20	18	16	14	11	7							
6SP46-3A	4	5.5		35	34	32	31	29	26	25	22	20	16	13	9							
6SP46-3	5.5	7.5		40	39	38	37	35	32	30	27	24	21	16	11							
6SP46-4	7.5	10		54	52	51	49	46	43	40	36	32	28	22	14							
6SP46-5	7.5	10		67	65	64	61	58	54	50	45	40	34	27	18							
6SP46-6	9.2	12.5		80	79	77	74	70	65	60	55	49	41	32	22							
6SP46-7	11	15		94	92	90	86	81	76	70	64	57	48	38	25							
6SP46-8	13	17.5		107	105	102	98	93	86	80	73	65	55	43	29							
6SP46-9	15	20		121	118	115	111	104	97	90	82	73	62	49	32							
6SP46-10	15	20		134	131	128	123	116	108	100	91	81	69	54	36							
6SP46-11	18.5	25		147	144	141	135	128	119	110	100	89	76	59	40							
6SP46-12	18.5	25		161	157	154	148	139	130	120	109	97	83	65	43							
6SP46-13	22	30		174	170	166	160	151	140	130	118	105	90	70	47							
6SP46-14	22	30		188	183	179	172	162	151	140	127	113	97	76	50							
6SP46-15	26	35		201	196	192	184	174	162	150	136	121	104	81	54							
6SP46-16	26	35		214	210	205	197	186	173	160	146	130	110	86	58							
6SP46-18	30	40		241	236	230	221	209	194	180	164	146	124	97	65							
6SP46-20	30	40		268	262	256	246	232	216	200	182	162	138	108	72							
6SP46-22	37	50		295	288	281	270	255	237	220	200	178	152	119	79							
6SP46-24	37	50		322	314	307	295	278	259	240	218	194	166	130	86							



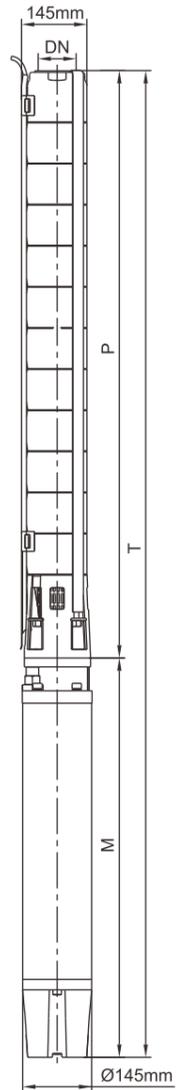
PERFORMANCE DATA 50Hz

MODEL 3 ~ 380 - 415V	P <sub>2</sub>		Q m³/h l/min	DELIVERY n≈2850 1/min													
	kW	HP		H(m)													
				0	6	12	18	24	30	36	42	48	54	60	66	72	78
6SP60-2	4	5.5	28	28	28	27	26	24	22	21	19	18	16	14	11	8	
6SP60-3	5.5	7.5	42	42	42	41	39	36	33	31	29	26	23	20	16	11	
6SP60-4	7.5	10	56	56	56	55	52	48	44	41	38	35	31	26	21	15	
6SP60-5	9.2	12.5	70	70	69	68	65	60	55	52	48	44	39	33	26	18	
6SP60-6	11	15	84	84	83	82	78	72	66	62	58	53	47	40	31	22	
6SP60-7	13	17.5	98	98	97	95	91	84	77	72	67	62	55	46	36	25	
6SP60-8	15	20	112	112	111	109	104	96	89	83	77	71	63	53	42	29	
6SP60-9	18.5	25	126	125	125	123	116	108	100	93	87	79	70	60	47	33	
6SP60-10	18.5	25	140	139	139	136	129	120	111	103	96	88	78	66	52	36	
6SP60-11	22	30	154	153	153	150	142	132	122	113	106	97	86	73	57	40	
6SP60-12	22	30	168	167	167	164	155	144	133	124	116	106	94	80	62	44	
6SP60-13	26	35	182	181	180	177	168	156	144	134	125	115	102	86	67	47	
6SP60-14	26	35	196	195	194	191	181	168	155	144	135	123	109	93	73	51	
6SP60-15	30	40	210	209	208	204	194	180	166	155	144	132	117	99	78	54	
6SP60-16	30	40	224	223	222	218	207	192	177	165	154	141	125	106	83	58	
6SP60-17	37	50	238	237	236	232	220	204	188	175	164	150	133	113	88	62	
6SP60-18	37	50	252	251	250	245	233	216	199	186	173	159	141	119	93	65	

DIMENSION AND WEIGHT

MODEL 3~ 380 - 415V	DN	DIMENSION(mm)			WEIGHT(kg)		
		P	M	T	P	M	T
6SP17-4	3"/4"	514	453	967	8.2	28.0	36.2
6SP17-5	3"/4"	574	488	1062	8.9	30.1	39.0
6SP17-7	3"/4"	695	523	1218	11.5	33.7	45.2
6SP17-10	3"/4"	877	573	1450	15.4	39.9	55.3
6SP17-13	3"/4"	1058	638	1696	19.3	47.6	66.9
6SP17-14	3"/4"	1119	698	1817	20.6	54.8	75.4
6SP17-16	3"/4"	1240	698	1938	23.2	54.8	78.0
6SP17-18	3"/4"	1361	763	2124	25.8	62.6	88.4
6SP17-20	3"/4"	1482	763	2245	28.4	62.6	91.0
6SP17-22	3"/4"	1603	823	2426	31.4	70.1	101.5
6SP17-24	3"/4"	1724	883	2607	34.4	77.2	111.6
6SP17-26	3"/4"	1845	883	2728	37.4	77.2	114.6
6SP17-28	3"/4"	1966	908	2874	40.4	80.3	120.1
6SP17-32	3"/4"	2208	908	3116	46.4	80.3	126.7
6SP17-36	3"/4"	2450	983	3433	52.4	89.5	141.9
6SP17-40	3"/4"	2692	983	3675	58.4	89.5	147.9
6SP17-42	3"/4"	2813	1058	3871	61.4	99.2	160.6
6SP17-45	3"/4"	2994	1058	4052	65.9	99.2	165.1
6SP17-48	3"/4"	3176	1133	4309	70.4	107.8	178.2
6SP17-51	3"/4"	3357	1133	4490	74.9	107.8	182.7

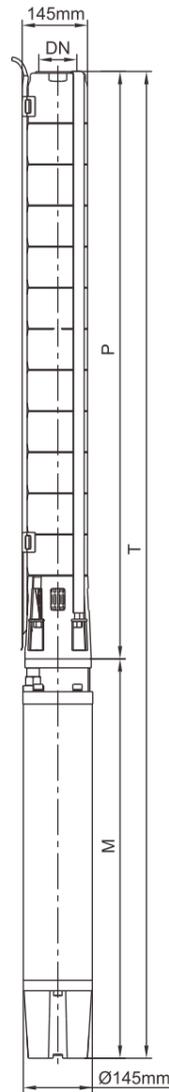
MODEL 3~ 380 - 415V	DN	DIMENSION(mm)			WEIGHT(kg)		
		P	M	T	P	M	T
6SP30-2	3"/4"	464	453	917	7.5	28.0	35.5
6SP30-3	3"/4"	560	488	1048	9.3	30.1	39.4
6SP30-4	3"/4"	656	523	1744	11.1	33.7	44.8
6SP30-5	3"/4"	752	573	1325	12.9	39.9	52.8
6SP30-6	3"/4"	848	638	1421	14.7	39.9	54.6
6SP30-7	3"/4"	944	638	1582	16.5	47.6	64.1
6SP30-8	3"/4"	1040	698	1678	18.3	47.6	65.9
6SP30-9	3"/4"	1136	698	1834	20.1	54.8	74.9
6SP30-10	3"/4"	1232	763	1930	22.1	54.8	76.9
6SP30-12	3"/4"	1424	823	2187	26.1	62.6	88.7
6SP30-14	3"/4"	1616	883	2439	30.1	70.1	100.2
6SP30-16	3"/4"	1808	883	2691	34.1	77.2	111.3
6SP30-18	3"/4"	2000	908	2908	38.1	80.3	118.4
6SP30-20	3"/4"	2192	908	3100	42.5	80.3	122.8
6SP30-22	3"/4"	2384	983	3367	46.9	89.5	136.4
6SP30-24	3"/4"	2576	983	3559	51.3	89.5	140.8
6SP30-27	3"/4"	2864	1058	3922	57.9	99.2	157.1
6SP30-29	3"/4"	3056	1058	4114	64.5	99.2	163.7
6SP30-32	3"/4"	3344	1133	4477	71.1	107.8	178.9
6SP30-34	3"/4"	3536	1133	4669	77.7	107.8	185.5



**DIMENSION AND WEIGHT**

MODEL	DN	DIMENSION(mm)			WEIGHT(kg)		
		P	M	T	P	M	T
3~ 380 - 415V							
6SP46-2	3"1/4"	498	488	986	8.6	30.1	38.7
6SP46-3A	3"1/4"	611	523	1134	10.6	33.7	44.3
6SP46-3	3"1/4"	611	573	1184	10.6	39.9	50.5
6SP46-4	3"1/4"	724	638	1362	12.6	47.6	60.2
6SP46-5	3"1/4"	837	638	1475	14.6	47.6	62.2
6SP46-6	3"1/4"	950	698	1648	16.6	54.8	71.4
6SP46-7	3"1/4"	1063	763	1761	18.6	62.6	81.2
6SP46-8	3"1/4"	1176	823	1939	20.8	70.1	90.9
6SP46-9	3"1/4"	1289	883	2112	23.0	77.2	100.2
6SP46-10	3"1/4"	1402	883	2285	25.2	77.2	102.4
6SP46-11	3"1/4"	1515	908	2398	27.4	80.3	107.7
6SP46-12	3"1/4"	1628	908	2536	29.6	80.3	109.9
6SP46-13	3"1/4"	1741	983	2649	31.8	89.5	121.3
6SP46-14	3"1/4"	1854	983	2837	34.0	89.5	123.5
6SP46-15	3"1/4"	1967	1058	2950	36.2	99.2	135.4
6SP46-16	3"1/4"	2080	1058	3138	38.4	99.2	137.6
6SP46-18	3"1/4"	2306	1133	3439	40.6	107.8	148.4
6SP46-20	3"1/4"	2532	1133	3665	42.8	107.8	150.6
6SP46-22	3"1/4"	2758	1208	3966	47.2	117.3	164.5
6SP46-24	3"1/4"	2984	1208	4192	51.6	117.3	168.9

MODEL	DN	DIMENSION(mm)			WEIGHT(kg)		
		P	M	T	P	M	T
3~ 380 - 415V							
6SP60-2	3"1/4"	498	523	1021	8.6	33.7	42.3
6SP60-3	3"1/4"	611	573	1184	10.6	39.9	50.5
6SP60-4	3"1/4"	724	638	1362	12.6	47.6	60.2
6SP60-5	3"1/4"	837	698	1535	14.6	54.8	69.4
6SP60-6	3"1/4"	950	763	1713	16.6	62.6	79.2
6SP60-7	3"1/4"	1063	823	1886	18.6	70.1	88.7
6SP60-8	3"1/4"	1176	883	2059	20.8	77.2	98.0
6SP60-9	3"1/4"	1289	908	2197	23.0	80.3	103.3
6SP60-10	3"1/4"	1402	908	2310	25.2	80.3	105.5
6SP60-11	3"1/4"	1515	983	2498	27.4	89.5	116.9
6SP60-12	3"1/4"	1628	983	2611	29.6	89.5	119.1
6SP60-13	3"1/4"	1741	1058	2799	31.8	99.2	131.0
6SP60-14	3"1/4"	1854	1058	2912	34.0	99.2	133.2
6SP60-15	3"1/4"	1967	1133	3100	36.2	107.8	144.0
6SP60-16	3"1/4"	2080	1133	3213	38.4	107.8	146.2
6SP60-17	3"1/4"	2193	1208	3401	40.6	117.3	157.9
6SP60-18	3"1/4"	2306	1208	3514	42.8	117.3	160.1



# 3NK/4NK

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +40°C  
 Maximum sand content: 0.15%  
 3NK minimum well diameter: 3"  
 4NK minimum well diameter: 4"

## Motor and Pump

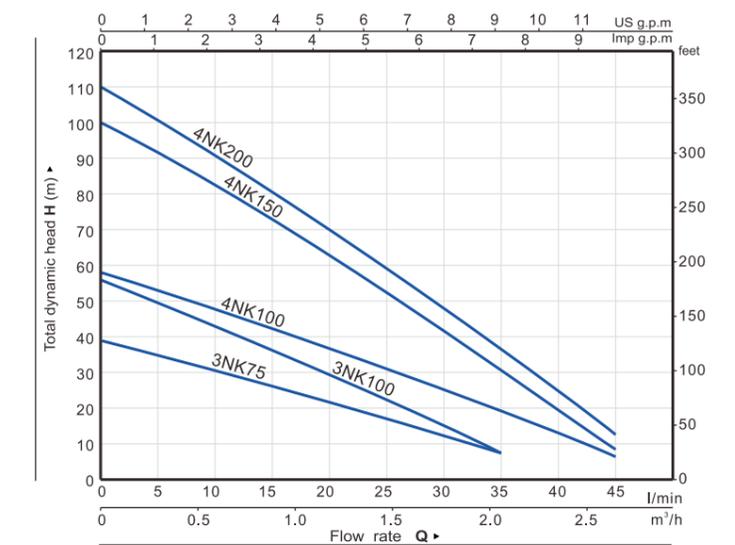
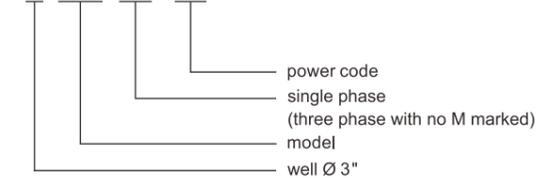
Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
 Equip with start control box or digital auto-control box  
 Curve tolerance according to ISO 9906

## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz  
 Single phase motor with built-in capacitor

Components	Material
Delivery casing	AISI 304 SS
Suction lantern	AISI 201 SS
Diffuser	AISI 201 SS
Impeller	Cast-Cu ASTM C85500
Strainer	AISI 304 SS
Motor external casing	AISI 304 SS
Top chock	Cast-Cu ASTM C85500 Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Graphite-Ceramic
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.

## 3 NK (M) 75



## PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min										
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q m³/h l/min	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7
					0	5	10	15	20	25	30	35	40	45
3NKM75	3NK75	0.55	0.75	H(m)	39	34	30	25	20	15	11	6	-	-
3NKM100	3NK100	0.75	1		55	48	41	34	27	20	13	6	-	-
4NKM100	4NK100	0.75	1		58	52	46	40	34	28	22	16	10	5
4NKM150	4NK150	1.1	1.5		100	89	79	69	59	48	38	28	17	7
4NKM200	4NK200	1.5	2		110	99	88	78	67	56	45	34	23	12

# 3SK/4SK

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +40°C  
 Maximum sand content: 0.15%  
 3SK minimum well diameter: 3"  
 4SK minimum well diameter: 4"

## Motor and Pump

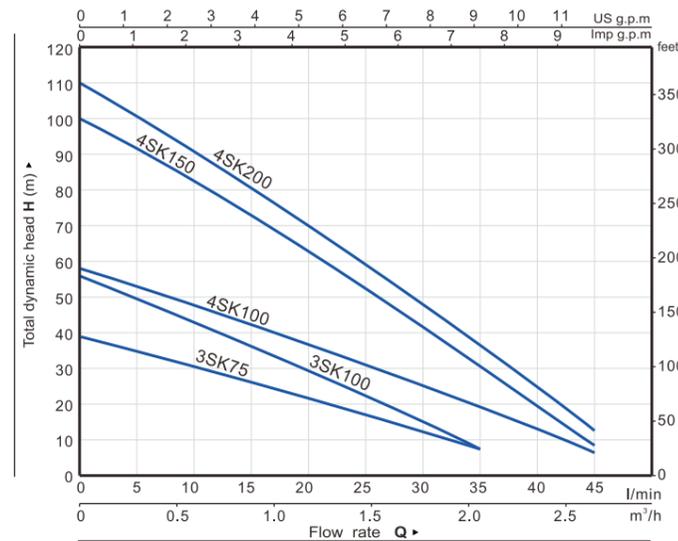
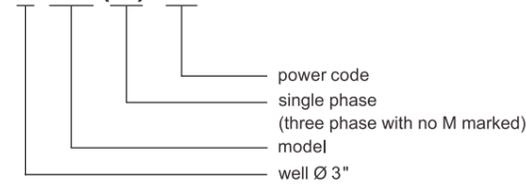
Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
 Equip with start control box or digital auto-control box  
 Curve tolerance according to ISO 9906

## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz  
 Single phase motor with built-in capacitor

Components	Material
Delivery casing	Cast-Cu ASTM C85500
Suction lantern	① Cast-Cu ASTM C85500 ② AISI 201 SS
Diffuser	① Cast-Cu ASTM C85500 ② AISI 201 SS
Impeller	Cast-Cu ASTM C85500
Strainer	AISI 304 SS
Motor external casing	AISI 304 SS
Top chock	Cast-Cu ASTM C85500 Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Graphite-Ceramic
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.

3 SK (M) 75



## PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min										
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7
				m³/h	0	5	10	15	20	25	30	35	40	45
3SKM75	3SK75	0.55	0.75	H(m)	39	34	30	25	20	15	11	6	-	-
3SKM100	3SK100	0.75	1		55	48	41	34	27	20	13	6	-	-
4SKM100	4SK100	0.75	1		58	52	46	40	34	28	22	16	10	5
4SKM150	4SK150	1.1	1.5		100	89	79	69	59	48	38	28	17	7
4SKM200	4SK200	1.5	2		110	99	88	78	67	56	45	34	23	12

# 3SV/4SV

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +40°C  
 Maximum sand content: 0.15%  
 3SV minimum well diameter: 3"  
 4SV minimum well diameter: 4"

## Motor and Pump

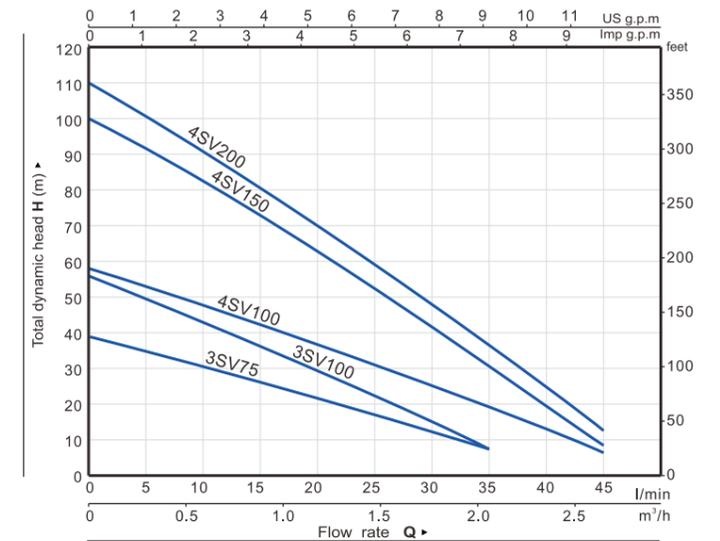
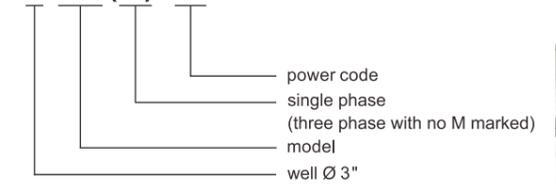
Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
 Equip with start control box or digital auto-control box  
 Curve tolerance according to ISO 9906

## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz  
 Single phase motor with built-in capacitor

Components	Material
Delivery casing	AISI 304 SS
Suction lantern	AISI 201 SS
Diffuser	AISI 201 SS
Impeller	Cast-Cu ASTM C85500
Strainer	AISI 304 SS
Motor external casing	AISI 304 SS
Top chock	Cast-Cu ASTM C85500 Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Graphite-Ceramic
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.

3 SV (M) 75



## PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min										
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7
				m³/h	0	5	10	15	20	25	30	35	40	45
3SVM75	3SV75	0.55	0.75	H(m)	39	34	30	25	20	15	11	6	-	-
3SVM100	3SV100	0.75	1		55	48	41	34	27	20	13	6	-	-
4SVM100	4SV100	0.75	1		58	52	46	40	34	28	22	16	10	5
4SVM150	4SV150	1.1	1.5		100	89	79	69	59	48	38	28	17	7
4SVM200	4SV200	1.5	2		110	99	88	78	67	56	45	34	23	12

# 2QG

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +40°C  
 Maximum sand content: 3%  
 Minimum well diameter: 2"

## Motor and Pump

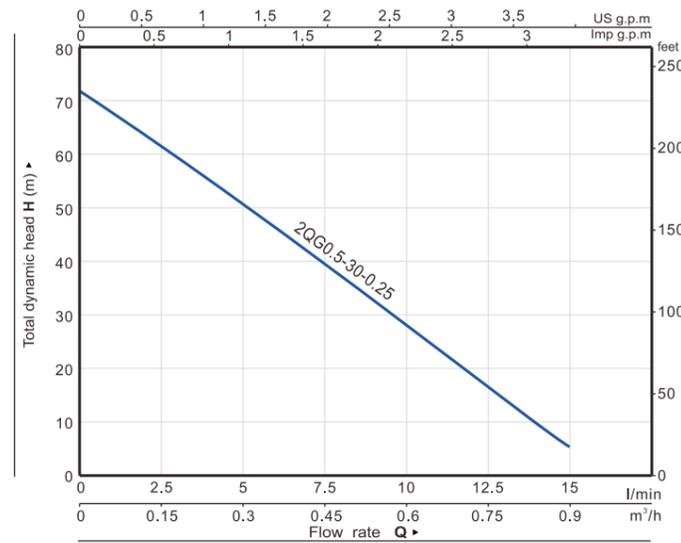
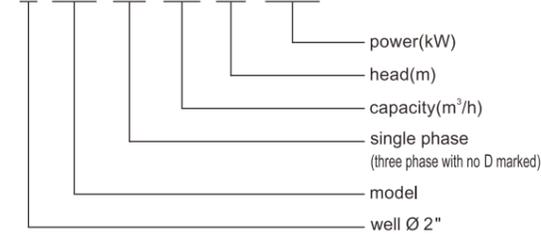
Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
 Single phase motor with built-in capacitor  
 Curve tolerance according to ISO 9906

## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz

Components	Material
Delivery casing	AISI 304 SS
Strainer	AISI 304 SS
Motor external casing	AISI 304 SS
Top chock	Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Graphite-Ceramic
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.

2 QG (D) 0.5-30-0.25



## PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		DELIVERY							
1~	3~	kW	HP	n≈2850 1/min							
220 - 240V	380 - 415V			Q	0	0.15	0.3	0.45	0.6	0.75	0.9
2QG0.5-30-0.25	2QG0.5-30-0.25	0.25	0.33	H(m)	72	60	47	35	25	15	8

# 3QG

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +40°C  
 Maximum sand content: 3%  
 Minimum well diameter: 3"

## Motor and Pump

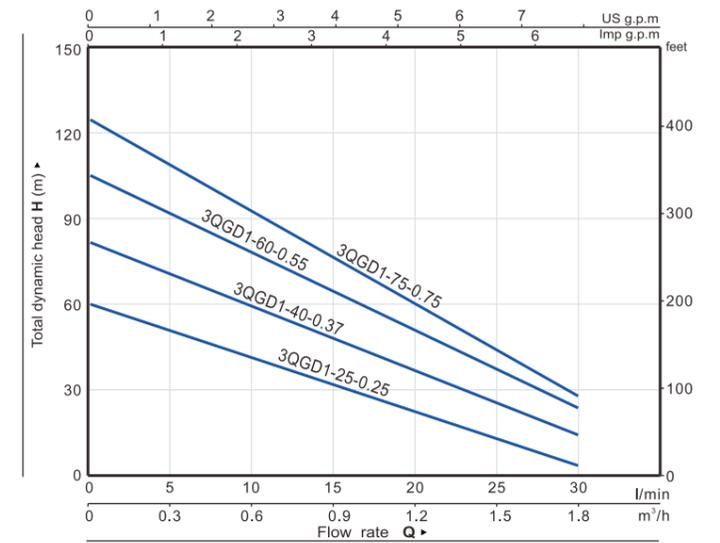
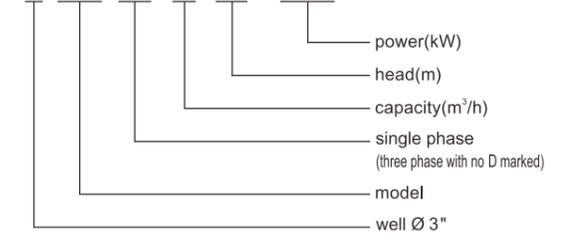
Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
 Single phase motor with built-in capacitor  
 Curve tolerance according to ISO 9906

## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz

Components	Material
Delivery casing	AISI 304 SS
Strainer	AISI 304 SS
Motor external casing	AISI 304 SS
Top chock	Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Graphite-Ceramic
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.

3 QG (D) 1 - 25 - 0.25



## PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		DELIVERY							
1~	3~	kW	HP	n≈2850 1/min							
220 - 240V	380 - 415V			Q	0	0.3	0.6	0.9	1.2	1.5	1.8
3QGD1-25-0.25	3QG1-25-0.25	0.25	0.33	H(m)	56	48	38	30	20	11	5
3QGD1-40-0.37	3QG1-40-0.37	0.37	0.5		80	72	59	47	36	27	13
3QGD1-60-0.55	3QG1-60-0.55	0.55	0.75		104	91	77	62	48	35	20
3QGD1-75-0.75	3QG1-75-0.75	0.75	1		125	108	92	76	60	45	28

# 3.5QG

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +40°C  
 Maximum sand content: 3%  
 Minimum well diameter: 3.5"

## Motor and Pump

Rewindable motor

**Single-phase:** 220 - 240V/50Hz

**Three-phase:** 380 - 415V/50Hz

Single phase motor with built-in capacitor

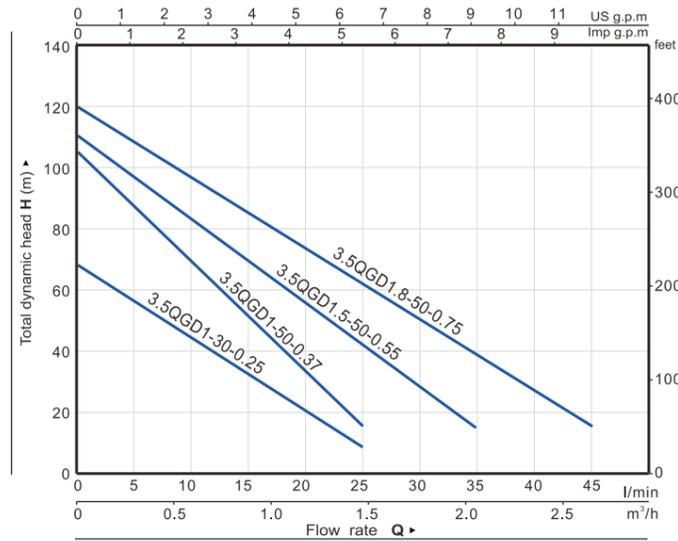
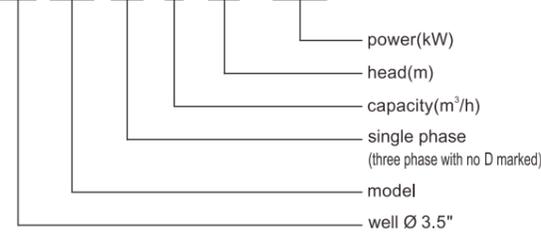
Curve tolerance according to ISO 9906

## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz

Components	Material
Delivery casing	AISI 304 SS
Strainer	AISI 304 SS
Motor external casing	AISI 304 SS
Top chock	Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Graphite-Ceramic
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.

3.5 QG (D) 1 - 30 - 0.25



## PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		DELIVERY										n≈2850 1/min										
1~	3~	kW	HP	Q	m <sup>3</sup> /h										0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7
220 - 240V	380 - 415V				0	5	10	15	20	25	30	35	40	45										
3.5QGD1.30-0.25	3.5QG1.30-0.25	0.25	0.33	H(m)	68	57	46	32	16	8	-	-	-	-	-	-	-	-	-	-	-	-		
3.5QGD1.50-0.37	3.5QG1.50-0.37	0.37	0.5		105	91	71	51	32	10	-	-	-	-	-	-	-	-	-	-	-	-		
3.5QGD1.5-50-0.55	3.5QG1.5-50-0.55	0.55	0.75		110	96	85	71	56	42	27	10	-	-	-	-	-	-	-	-	-	-		
3.5QGD1.8-50-0.75	3.5QG1.8-50-0.75	0.75	1		120	108	96	84	74	61	50	37	24	12	-	-	-	-	-	-	-	-		

# 4QG

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +40°C  
 Maximum sand content: 3%  
 Minimum well diameter: 4"

## Motor and Pump

Rewindable motor

**Single-phase:** 220 - 240V/50Hz

**Three-phase:** 380 - 415V/50Hz

Single phase motor with built-in capacitor

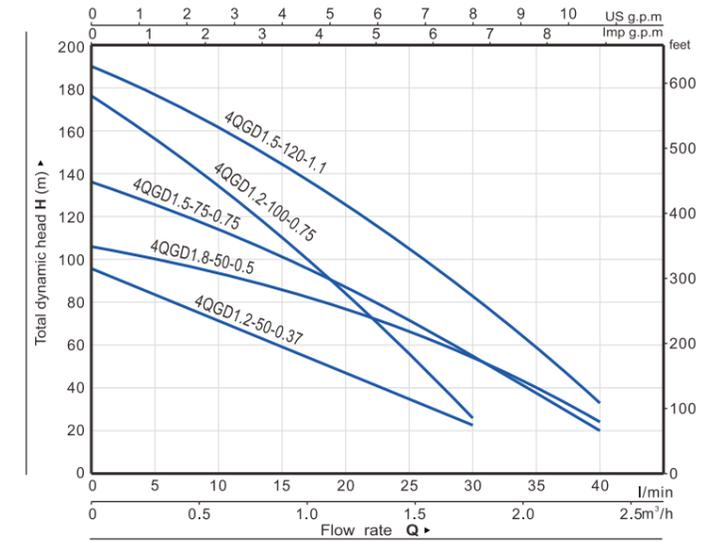
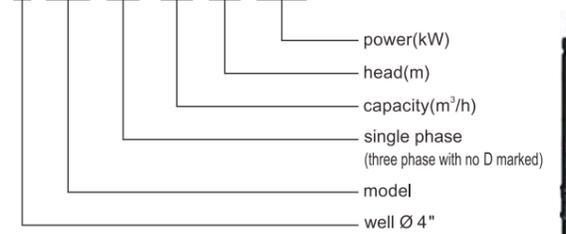
Curve tolerance according to ISO 9906

## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz

Components	Material
Delivery casing	AISI 304 SS
Strainer	AISI 304 SS
Motor external casing	AISI 304 SS
Top chock	Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Graphite-Ceramic
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.

4 QG (D) 1.2-50-0.37



## PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		DELIVERY										n≈2850 1/min									
1~	3~	kW	HP	Q	m <sup>3</sup> /h										0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4
220 - 240V	380 - 415V				0	5	10	15	20	25	30	35	40										
4QGD1.2-50-0.37	4QG1.2-50-0.37	0.37	0.5	H(m)	95	83	72	60	48	35	22	-	-	-	-	-	-	-	-	-	-	-	
4QGD1.8-50-0.55	4QG1.8-50-0.55	0.55	0.75		107	95	86	81	71	61	50	36	23	-	-	-	-	-	-	-	-	-	
4QGD1.2-100-0.75	4QG1.2-100-0.75	0.75	1		175	154	138	115	90	56	25	-	-	-	-	-	-	-	-	-	-	-	
4QGD1.5-75-0.75	4QG1.5-75-0.75	0.75	1		135	125	110	98	80	68	50	35	20	-	-	-	-	-	-	-	-	-	
4QGD1.5-120-1.1	4QG1.5-120-1.1	1.1	1.5		190	177	163	147	128	107	84	58	30	-	-	-	-	-	-	-	-	-	

# 5QG

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +40°C  
 Maximum sand content: 3%  
 Minimum well diameter: 5"

## Motor and Pump

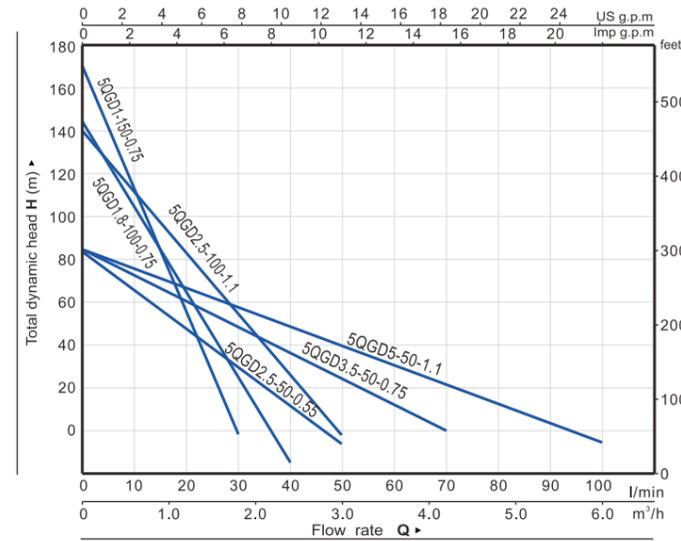
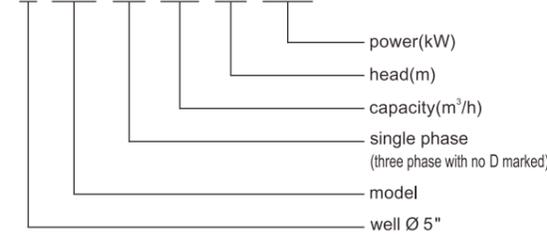
Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
 Single phase motor with built-in capacitor  
 Curve tolerance according to ISO 9906

## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz

Components	Material
Delivery casing	AISI 304 SS
Strainer	AISI 304 SS
Motor external casing	AISI 304 SS
Top chock	Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Graphite-Ceramic
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.

## 5 QG (D) 2.5-50-0.55



## PERFORMANCE DATA 50Hz

MODEL	P <sub>2</sub>	DELIVERY												
		n≈2850 1/min												
1~ 220 - 240V	3~ 380 - 415V	Q	H(m)											
			m³/h l/min	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0
5QGD2.5-50-0.55	5QGD2.5-50-0.55	0.55	0.75	85	71	56	42	27	12	-	-	-	-	-
5QGD1-150-0.75	5QGD1-150-0.75	0.75	1	175	123	70	18	-	-	-	-	-	-	-
5QGD1.8-100-0.75	5QGD1.8-100-0.75	0.75	1	145	110	76	41	6	-	-	-	-	-	-
5QGD3.5-50-0.75	5QGD3.5-50-0.75	0.75	1	85	76	66	57	48	39	29	20	-	-	-
5QGD2.5-100-1.1	5QGD2.5-100-1.1	1.1	1.5	142	117	91	66	40	15	-	-	-	-	-
5QGD5-50-1.1	5QGD5-50-1.1	1.1	1.5	85	78	71	63	56	49	42	35	27	20	13

# 4SN

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +40°C  
 Maximum sand content: 0.15%  
 Minimum well diameter: 4"

## Motor and Pump

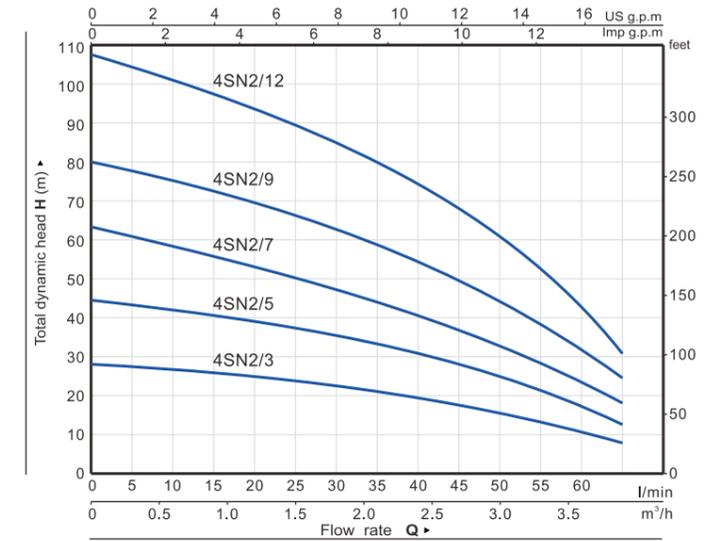
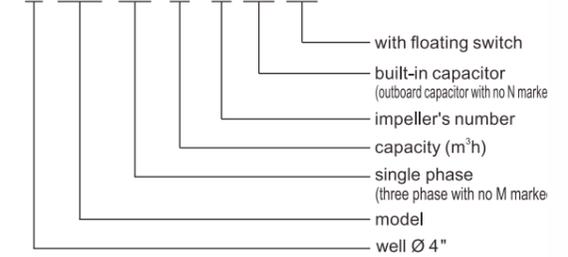
Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
 Equip with start control box or digital auto-control box  
 Pumps are designed by casing stressed  
 Curve tolerance according to ISO 9906

## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz

Components	Material
Delivery casing	AISI 304 SS
Suction lantern	AISI 304 SS
Pump external casing	AISI 304 SS
Diffuser	Plastic.PC
Impeller	Plastic.POM
Motor external casing	AISI 304 SS
Top chock	Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Graphite-Ceramic
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.

## 4 SN (M) 2 / 3 (N)(A)



## PERFORMANCE DATA 50Hz

MODEL	P <sub>2</sub>	DELIVERY																
		n≈2850 1/min																
1~ 220 - 240V	3~ 380 - 415V	Q	H(m)															
			m³/h l/min	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	
4SNM2/3	4SN2/3	0.25	0.33	27	26	25	24	23	22	21	20	19	17	14	12	10	8	
4SNM2/5	4SN2/5	0.37	0.5	45	43	42	40	39	37	35	34	31	28	24	20	17	13	
4SNM2/7	4SN2/7	0.55	0.75	63	61	59	57	54	52	50	47	44	39	33	29	23	18	
4SNM2/9	4SN2/9	0.75	1	81	78	76	73	70	67	64	61	56	50	43	37	30	23	
4SNM2/12	4SN2/12	1.1	1.5	108	104	101	97	93	89	85	81	75	66	57	49	40	31	

# 4SN

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +40°C  
 Maximum sand content: 0.15%  
 Minimum well diameter: 4"

## Motor and Pump

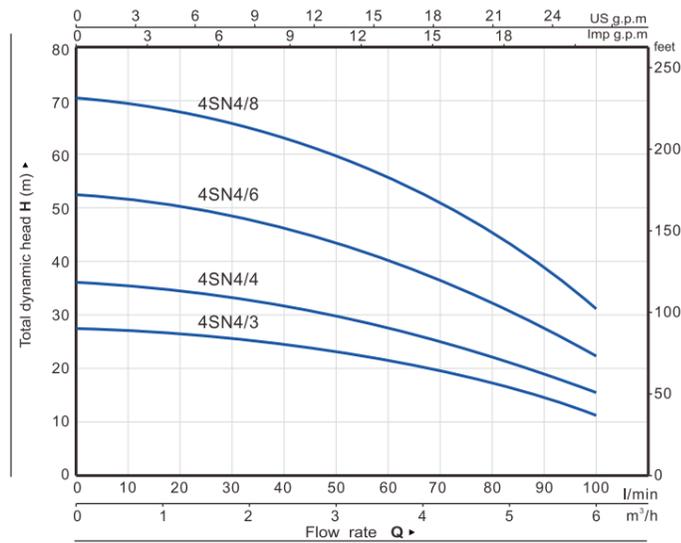
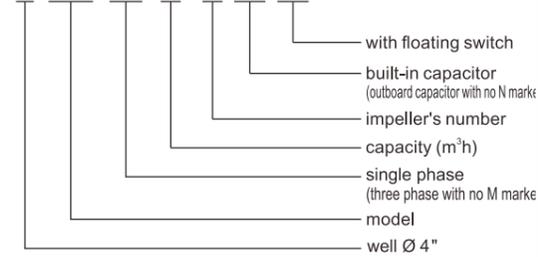
Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
 Equip with start control box or digital auto-control box  
 Pumps are designed by casing stressed  
 Curve tolerance according to ISO 9906

## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz

Components	Material
Delivery casing	AISI 304 SS
Suction lantern	AISI 304 SS
Pump external casing	AISI 304 SS
Diffuser	Plastic.PC
Impeller	Plastic.POM
Motor external casing	AISI 304 SS
Top chock	Cast-iron ASTM NO.30
Bottom support	AISI 304 SS
Mechanical seal	Graphite-Ceramic
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutic use.

## 4 SN (M) 4 / 3 (N)(A)



## PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min																						
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q	m³/h																					
0	10	20	30		40	50	60	70	80	90	100	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0				
4SNM4/3	4SN4/3	0.37	0.5	H(m)	27	26	26	25	24	23	21	19	17	14	12	0	10	20	30	40	50	60	70	80	90	100
4SNM4/4	4SN4/4	0.55	0.75		36	35	35	33	32	31	28	26	23	19	16	0	10	20	30	40	50	60	70	80	90	100
4SNM4/6	4SN4/6	0.75	1		53	53	52	50	48	46	42	38	34	29	23	0	10	20	30	40	50	60	70	80	90	100
4SNM4/8	4SN4/8	1.1	1.5		71	70	69	66	64	61	56	51	45	38	31	0	10	20	30	40	50	60	70	80	90	100

# 4DN

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +40°C  
 Maximum sand content: 0.15%  
 Minimum well diameter: 4"

## Motor and Pump

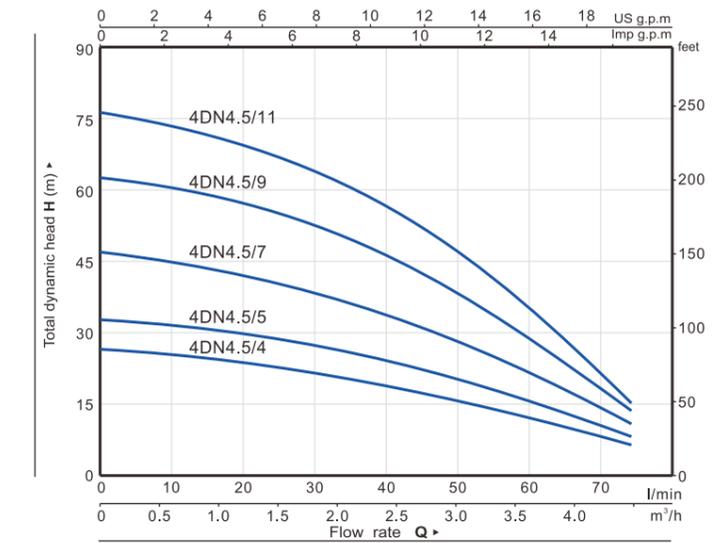
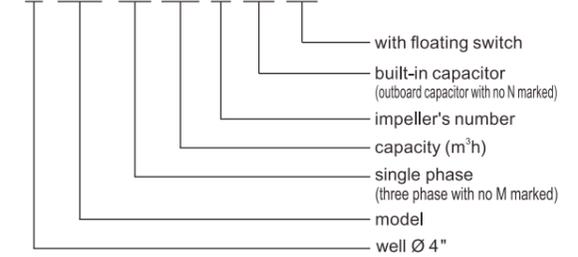
Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
 Equip with start control box or digital auto-control box  
 It's available to equip with floating switch  
 Curve tolerance according to ISO 9906

## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz

Components	Material
Delivery casing	Plastic.PA
Suction lantern	Plastic.PA
Pump external casing	AISI 304 SS
Diffuser	Plastic.PC
Impeller	Plastic.POM
Motor external casing	AISI 304 SS
Top chock	Cast-aluminum
Bottom support	Plastic.PPO
Mechanical seal	Graphite-Ceramic
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutic use.

## 4 DN (M) 4.5/4 (N)(A)



## PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min																
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q	m³/h															
0	10	20	30		40	50	60	70	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2				
4DNM4.5/4	4DN4.5/4	0.37	0.5	H(m)	28	27	25	23	20	17	13	8	0	10	20	30	40	50	60	70
4DNM4.5/5	4DN4.5/5	0.55	0.75		35	33	31	29	25	21	16	10	0	10	20	30	40	50	60	70
4DNM4.5/7	4DN4.5/7	0.75	1		48	46	44	41	36	30	23	14	0	10	20	30	40	50	60	70
4DNM4.5/9	4DN4.5/9	0.92	1.25		62	60	56	52	46	38	29	18	0	10	20	30	40	50	60	70
4DNM4.5/11	4DN4.5/11	1.1	1.5		76	73	69	64	56	47	36	22	0	10	20	30	40	50	60	70

# 4DN

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +40°C  
 Maximum sand content: 0.15%  
 Minimum well diameter: 4"

## Motor and Pump

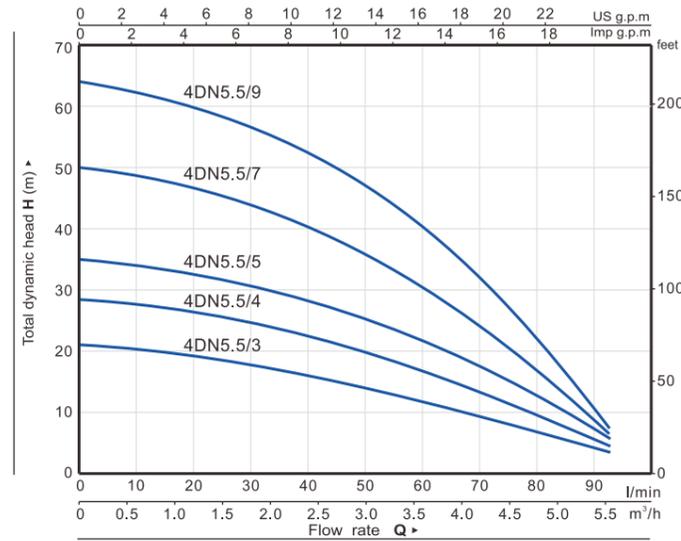
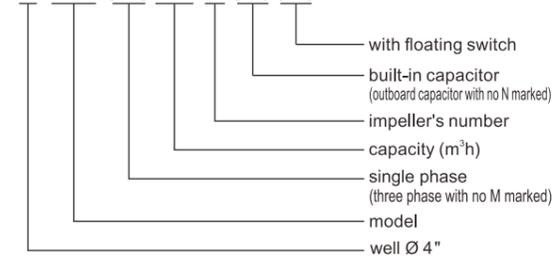
Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
 Equip with start control box or digital auto-control box  
 It's available to equip with floating switch  
 Curve tolerance according to ISO 9906

## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz

Components	Material
Delivery casing	Plastic.PA
Suction lantern	Plastic.PA
Pump external casing	AISI 304 SS
Diffuser	Plastic.PC
Impeller	Plastic.POM
Motor external casing	AISI 304 SS
Top chock	Cast-aluminum
Bottom support	Plastic.PPO
Mechanical seal	Graphite-Ceramic
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.

## 4 DN (M)5.5/3 (N)(A)



## PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min									
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q m³/h l/min	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8
4DNM5.5/3	4DN5.5/3	0.37	0.5		0	10	20	30	40	50	60	70	80
				H(m)	21	20	20	19	18	16	13	10	7
					28	27	26	25	24	21	18	13	9
					36	34	33	32	29	27	22	17	11
					50	47	46	44	41	37	31	23	16
					64	61	59	57	53	48	40	30	20

# SC

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +40°C  
 Maximum sand content: 0.15%  
 Minimum well diameter: Φ130mm

## Motor and Pump

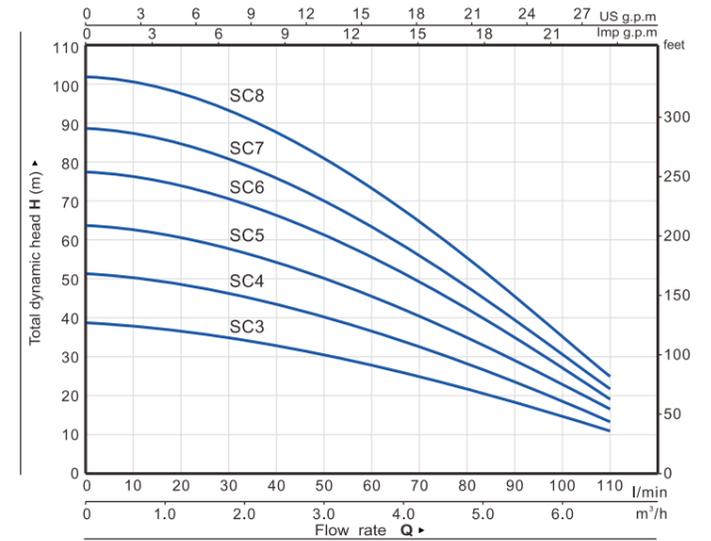
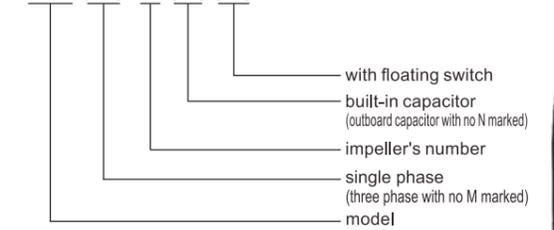
Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
 Equip with start control box or digital auto-control box  
 It's available to equip with floating switch  
 Curve tolerance according to ISO 9906

## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz

Components	Material
Pump external casing	AISI 304 SS
Delivery casing	AISI 304 SS
Suction lantern	AISI 304 SS
Diffuser	Plastic.PPO
Impeller	Plastic.PPO
Motor external casing	AISI 304 SS
Top chock	① Cast-iron ASTM NO.30 ② AISI 420 SS
Bottom support	AISI 304 SS
Mechanical seal	Graphite-Ceramic
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.

## SC (M) 3 (N)(A)



## PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min												
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q m³/h l/min	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6
SCM3	SC3	0.55	0.75		0	10	20	30	40	50	60	70	80	90	100	110
				H(m)	38	37	36	35	33	30	28	25	22	19	15	11
					51	50	49	47	44	41	36	33	27	24	19	13
					64	62	61	59	55	51	47	42	36	31	24	17
					77	74	73	71	66	61	54	46	40	34	27	19
					89	87	85	82	77	71	63	55	48	40	31	21
					102	99	97	94	88	81	73	64	56	47	38	26

# SSC

## Applications

For water supply from wells or reservoirs  
 For domestic use, for civil and industrial applications  
 For garden use and irrigation

## Operating conditions

Maximum fluid temperature up to +40°C  
 Maximum sand content: 0.15%  
 Minimum well diameter:  $\Phi$ 130mm

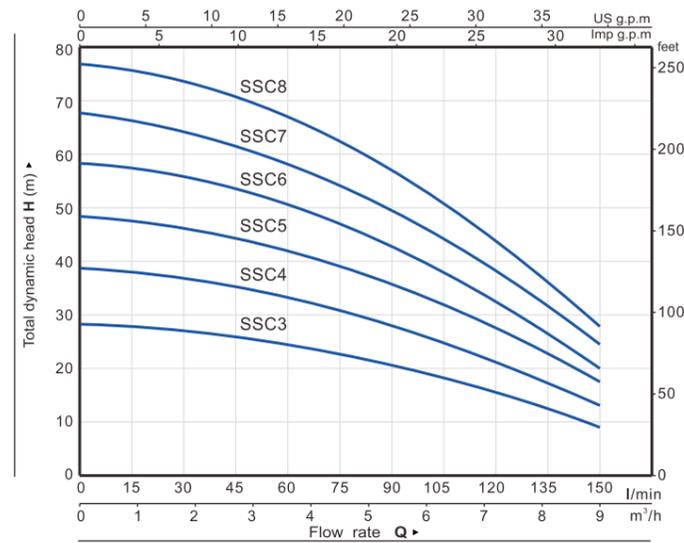
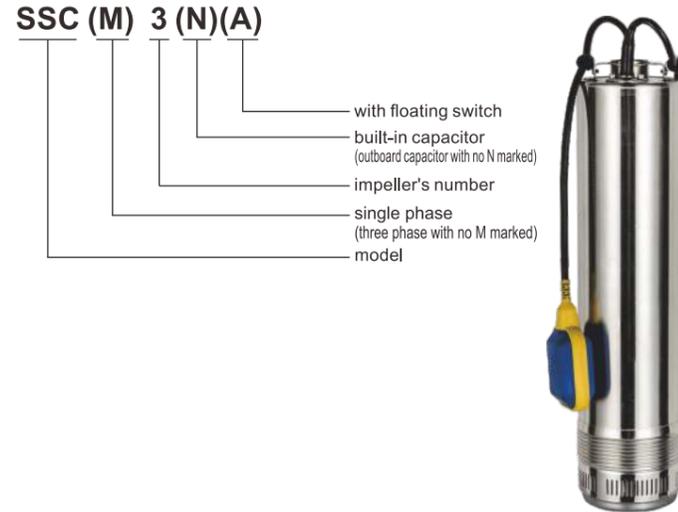
## Motor and Pump

Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
 Equip with start control box or digital auto-control box  
 It's available to equip with floating switch  
 Curve tolerance according to ISO 9906

## Options on request

Special mechanical seal  
 Other voltages or frequency 60Hz

Components	Material
Pump external casing	AISI 304 SS
Delivery casing	AISI 304 SS
Suction lantern	AISI 304 SS
Diffuser	AISI 304 SS
Impeller	AISI 304 SS
Motor external casing	AISI 304 SS
Top chock	① Cast-iron ASTM NO.30 ② AISI 420 SS
Bottom support	AISI 304 SS
Mechanical seal	Graphite-Ceramic
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use.



## PERFORMANCE DATA 50Hz

MODEL		P <sub>2</sub>		DELIVERY n≈2850 1/min														
1~ 220 - 240V	3~ 380 - 415V	kW	HP	Q	m <sup>3</sup> /h													
					0	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.2	8.1	9.0			
SSCM3	SSC3	0.55	0.75	H(m)	0	15	30	45	60	75	90	105	120	135	150			
SSCM4	SSC4	0.75	1		29	28	27	26	24	22	20	17	15	13	10			
SSCM5	SSC5	0.92	1.25		38	38	36	34	32	30	26	23	20	17	14			
SSCM6	SSC6	1.1	1.5		48	47	45	43	40	37	33	29	25	21	17			
SSCM7	SSC7	1.3	1.75		58	56	54	52	48	44	40	35	30	25	20			
SSCM8	SSC8	1.5	2		67	66	63	60	56	52	46	41	35	29	24			
					77	75	72	69	64	59	53	46	40	34	27			

# Control Box For Pump



▶ QK101



◀ QK102



▶ QK103



◀ QK104



▶ QK105



▶ QK106