



SINCE 1988

FROG PUMP

CHINA'S NO.1 BRAND OF DEEP WELL PUMPS



FROG PUMP INDUSTRY

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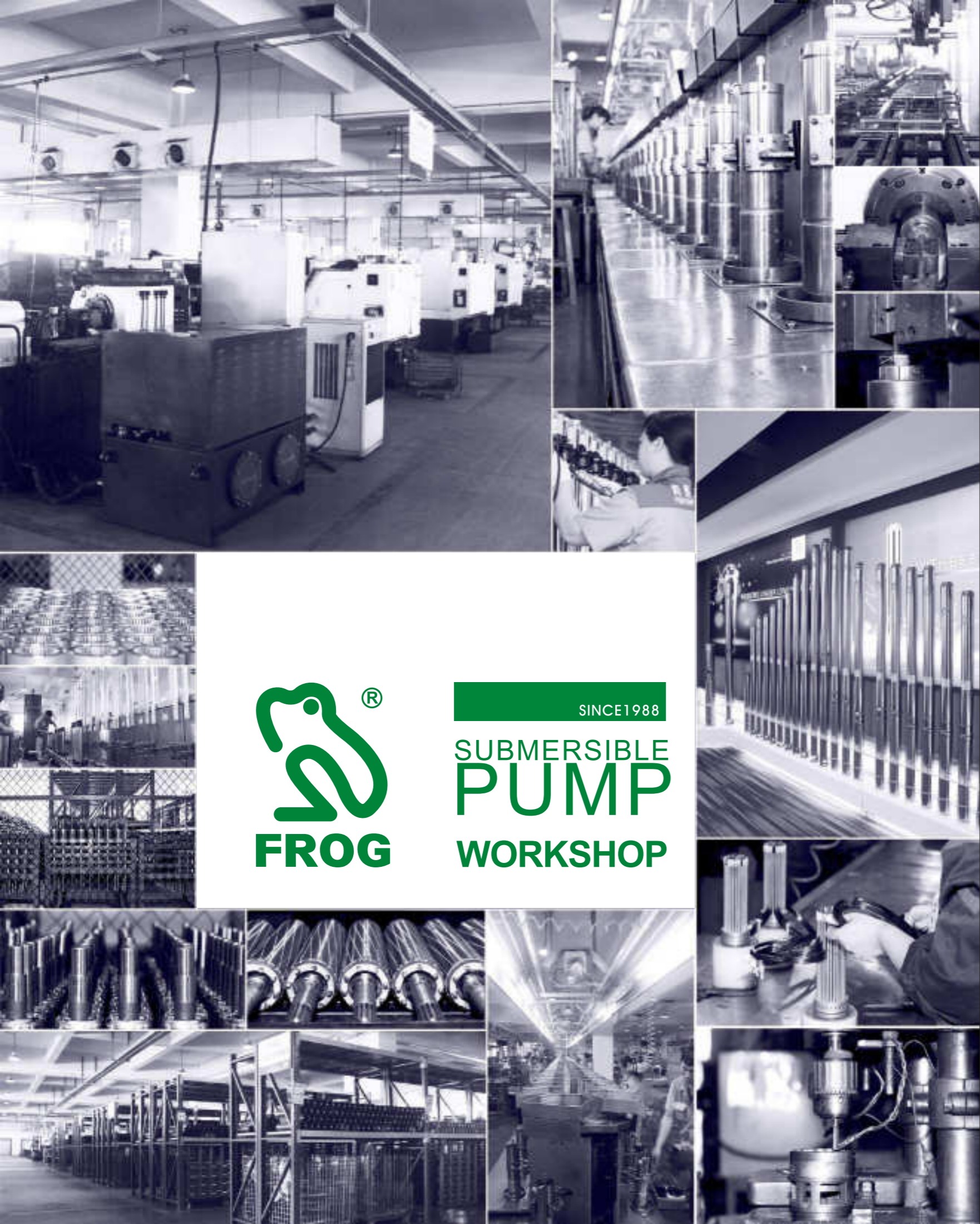


SINCE 1988
SUBMERSIBLE
PUMP

About Frog Pump

- **HISTORY:**
Focus on deep well pump for 30 years. Now FROG becomes China's No.1 brand of deep well pump.
- **SCALE:**
Covers working area of 80000m², more than 800 employees
- **TECHNOLOGIES:**
Firstly invented ceramic anti - sand technology
Firstly invented wide voltage technology
Created the world record of the highest delivery head of 4-inch deep well pump
- **SALES:**
Keeps No.1 sales volume in domestic market for 10 years continuously
Export to more than 80 countries.
FROG trademark is registered in over 110 countries.
- **CERTIFICATION:**
ISO9001, ISO14001, GB/T28001 management system certification; CE, TUV, SON, GS quality certification.
- **GOAL:**
To be the expert and leader of deep well pump in the world.





C FROG PUMP

CHINA'S NO.1 BRAND OF DEEP WELL PUMPS

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SINCE 1988

SUBMERSIBLE
PUMP
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2.5SD Submersible Pump



2.5SD 1.5 Submersible Pump

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 : +35°C.
Maximum sand content: 1%.
Maximum immersion : 100m.
Minimum well diameter : 2.5".

Motor and pump

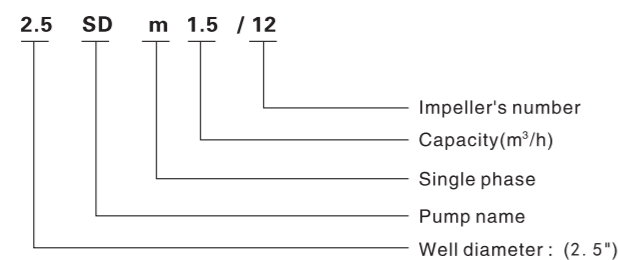
Rewindable motor
Single-phase: 150V-240V/50Hz
Equip with start control box or digital auto-control box
Pumps are designed by casing stressed
Curve tolerance according to ISO 9001

Internal diameter of outlet

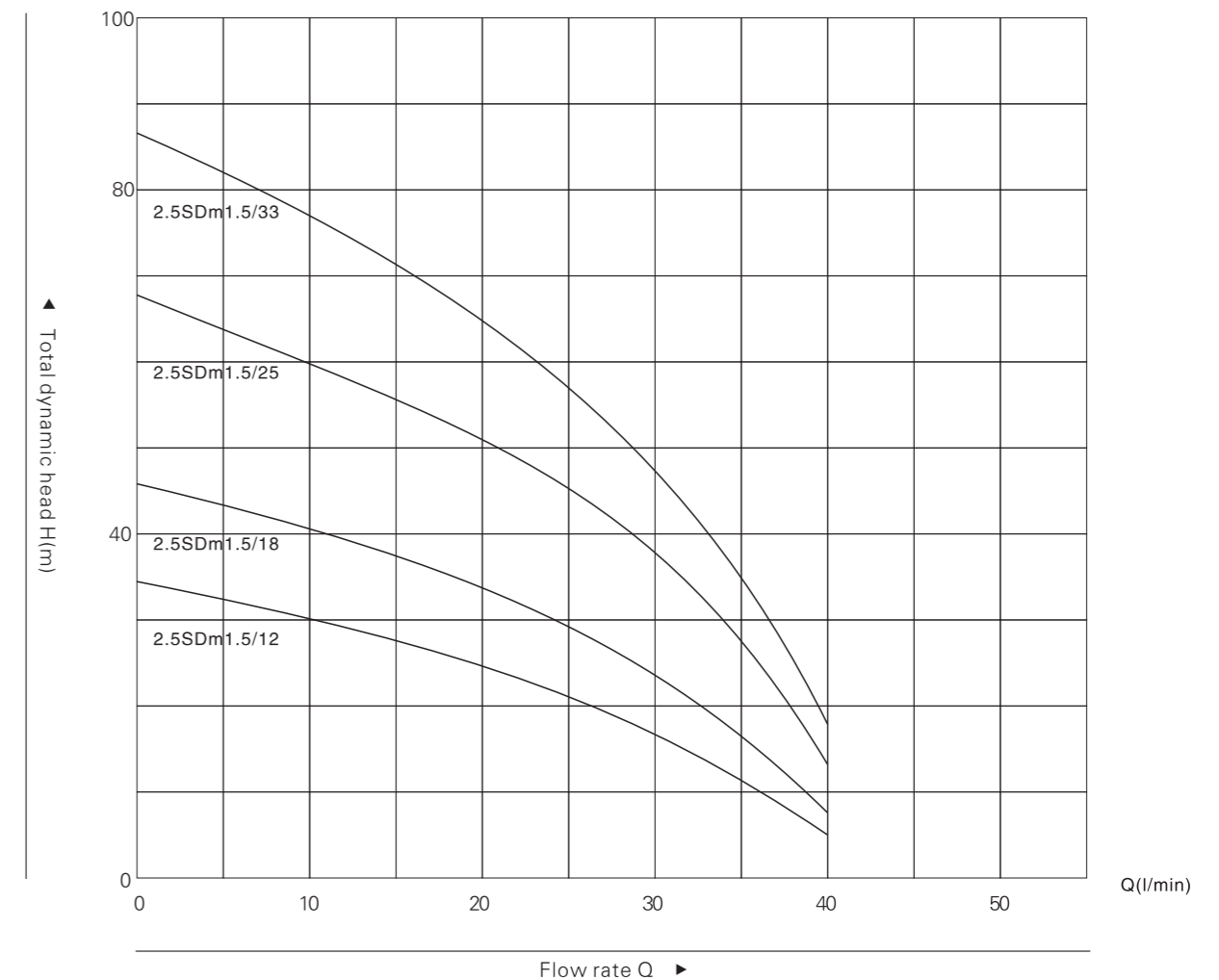
1.2"

Warranty: 1 year

(According to our general sales conditions).



COMPONENTS	MATERIAL
Pump casing	AISI 304SS/201SS
Outlet	Cast-Cu
Inlet	Cast-Cu
Strainer	AISI 304SS
Diffuser	PC
Impeller	POM
Pump shaft	AISI 304SS/201SS
Shaft coupling	AISI 304SS/201SS
Motor casing	AISI 304SS/201SS
Mechanical seal	Graphite-ceramic/TC
Top chock	Cast-Cu/Cast-iron
Motor shaft	AISI 304SS
Bearing	NSK/C&U
Seal lubricant oil	10# White Oil



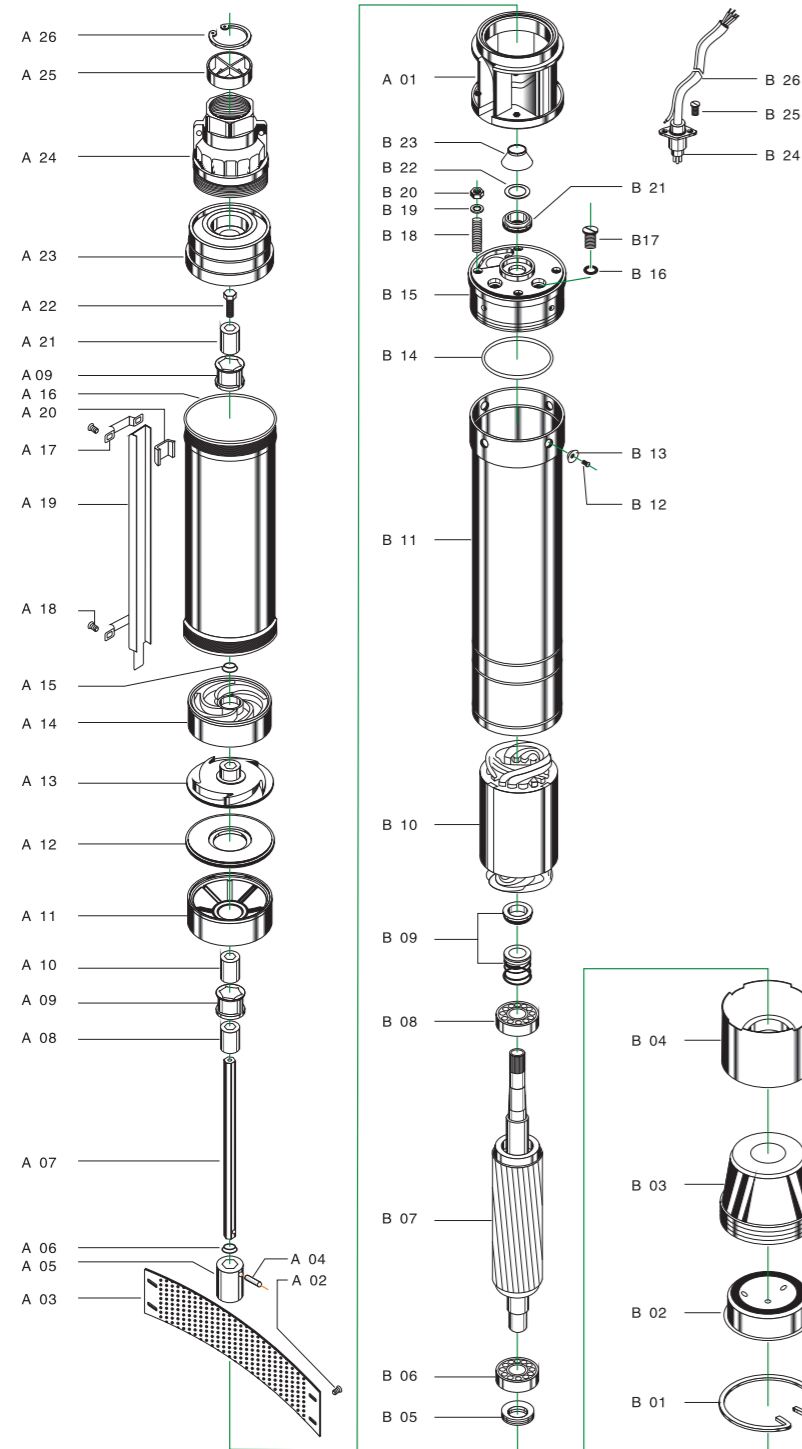
PERFORMANCE TABLE:

Type	Motor power		Delivery N ≈ 2850 r/min								
	KW	HP	Q m³/h								
1-220V-240V			0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4
2.5SDm1.5/12	0.18	0.25	0	5	10	15	20	25	30	35	40
2.5SDm1.5/18	0.25	0.33	33	31	29	27	25	21	18	13	6
2.5SDm1.5/25	0.37	0.5	48	45	42	39	36	31	27	20	7
2.5SDm1.5/33	0.55	0.75	67	63	59	55	51	44	37	27	13
			87	82	77	72	66	57	49	36	17

3SD/4SD STRUCTURE DRAWING

3SD Strong Anti-sand Series

The structure, code and name of the pump



A 01	Suction support
A 02	Screw
A 03	Strainer
A 04	Shaft pin
A 05	Coupling
A 06	Shim
A 07	Shaft
A 08	Bushing
A 09	Guide bush
A 10	Bearing bush
A 11	Intermediate support
A 12	Diffuser Cover
A 13	Impeller
A 14	Diffuser
A 15	Sealing gasket
A 16	Pump pipe
A 17	Holder pipe
A 18	Screw
A 19	Cable cover
A 20	Cable shield
A 21	Bearing bush
A 22	Screw
A 23	Valve seat
A 24	Outlet
A 25	Valve
A 26	Clamping spring
B 01	Clamping spring
B 02	End cover
B 03	Rubber cup
B 04	Bearing seat
B 05	Thrust bearing
B 06	Deep groove ball bearing
B 07	Motor rotor
B 08	Deep groove ball bearing
B 09	Mechanical seal
B 10	Motor stator
B 11	Motor pipe
B 12	Screw
B 13	Locking ring
B 14	"O"ring
B 15	Oil chamber
B 16	"O"ring
B 17	Screw
B 18	Stud
B 19	Washer
B 20	Nut
B 21	Static ring
B 22	Gasket
B 23	Sand proof cap
B 24	Cable shield sleeve
B 25	Screw
B 26	Cable



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: +35°C.
 Maximum sand content: 2%.
 Maximum immersion :120m.
 Minimum well diameter :3".

Motor and pump

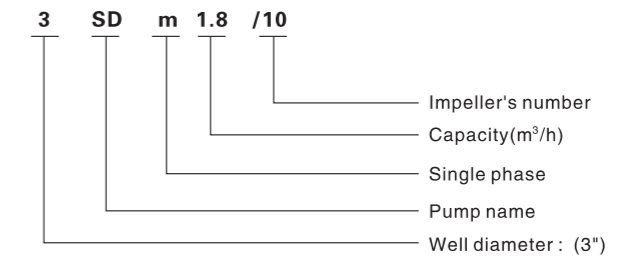
Rewindable motor
 Single-phase: 150V-240V/50Hz
 Equip with start control box or digital auto-control box
 Pumps are designed by casing stressed
 Curve tolerance according to ISO 9001

Internal diameter of outlet

1.0", 1.25"

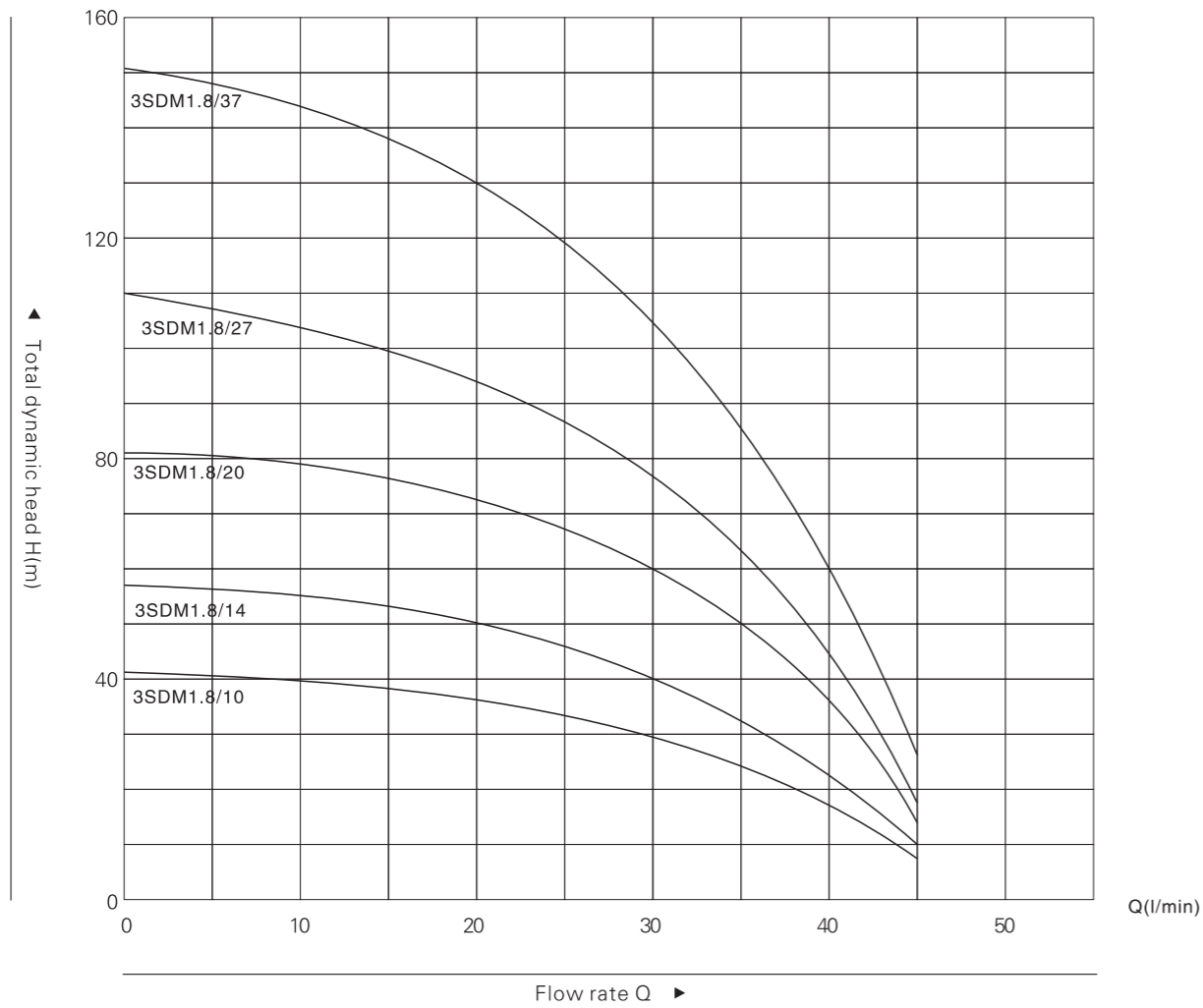
Warranty: 1 year

(According to our general sales conditions).



COMPONENTS	MATERIAL
Pump casing	AISI 304SS/201SS
Outlet	Cast-Cu
Inlet	Cast-Cu
Strainer	AISI 304SS
Diffuser	PC
Impeller	POM
Pump shaft	AISI 304SS/201SS
Shaft coupling	AISI 304SS/201SS
Motor casing	AISI 304SS/201SS
Mechanical seal	Graphite-ceramic/TC
Top chock	Cast-Cu/Cast-iron
Motor shaft	AISI 304SS
Bearing	NSK/C&U
Seal lubricant oil	10# White Oil

3SD1.8 Strong Anti-sand Series

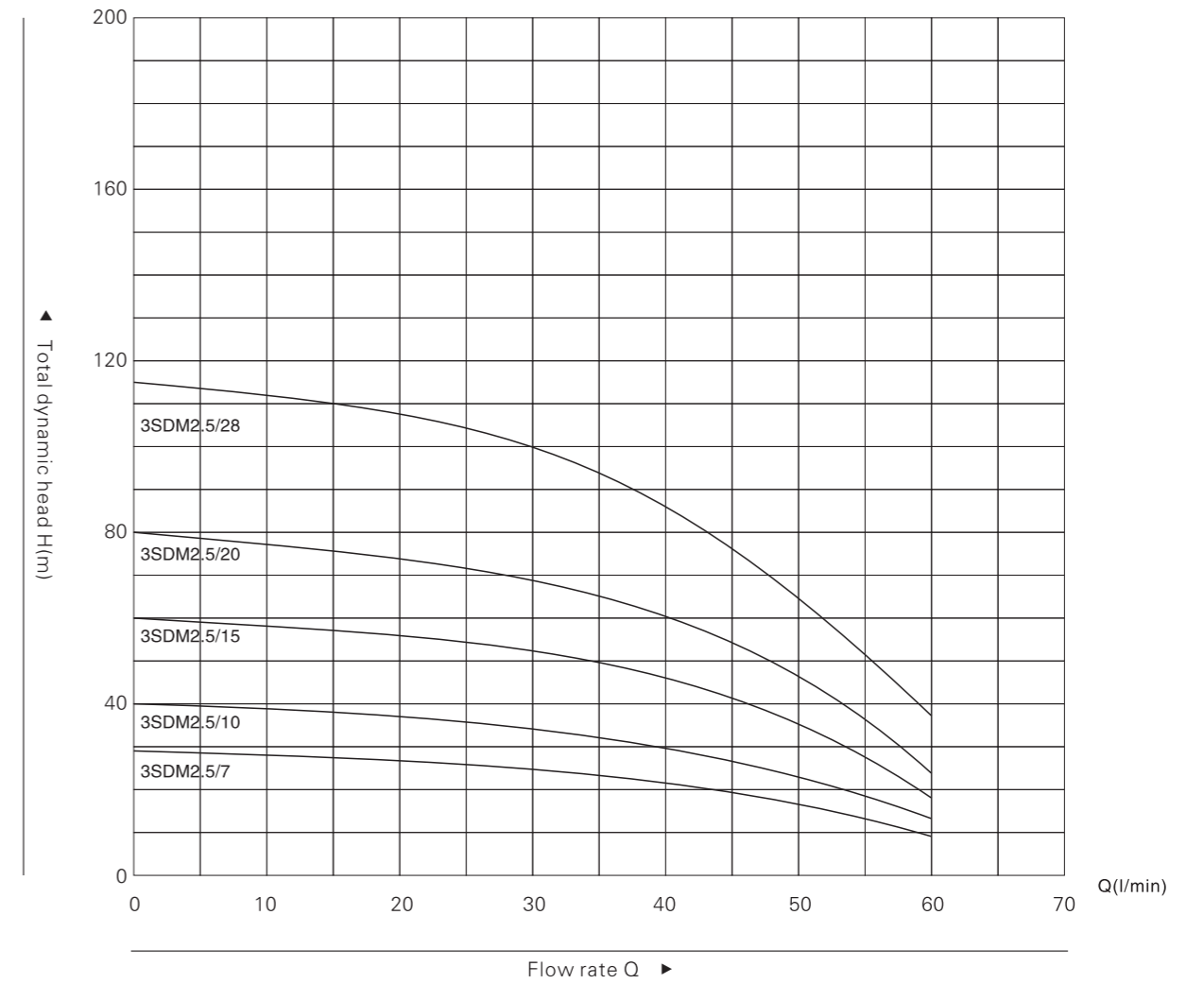


PERFORMANCE TABLE:

Type	Motor power		Delivery N≈2850 r/min										
	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
1~220V-240V				0	5	10	15	20	25	30	35	40	45
3SDM1.8/10	0.25	0.33	H(m)	41	40	39	36	36	32	29	25	16	7
3SDM1.8/14	0.37	0.5		57	56	54	51	50	45	40	35	23	10
3SDM1.8/20	0.55	0.75		81	80	78	73	71	64	57	50	32	14
3SDM1.8/27	0.75	1.0		110	108	105	98	96	87	77	67	43	18
3SDM1.8/37	1.10	1.5		151	148	144	134	132	119	105	92	60	25



3SD2.5 Strong Anti-sand Series



PERFORMANCE TABLE:

Type	Motor power		Delivery N≈2850 r/min													
	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	3.0	3.3	3.6
1~220V-240V				0	5	10	15	20	25	30	35	40	45	50	55	60
3SDM2.5/7	0.25	0.33	H(m)	29	28	27	26	25	25	24	23	21	18	16	11	8
3SDM2.5/10	0.37	0.5		40	39	38	37	36	35	34	32	29	26	22	16	12
3SDM2.5/15	0.55	0.75		60	59	58	57	55	53	51	48	44	39	33	25	17
3SDM2.5/20	0.75	1.0		80	79	78	76	74	71	69	65	59	53	44	33	23
3SDM2.5/28	1.1	1.5		115	113	113	110	107	103	99	93	85	76	63	48	33

3.5SD Strong Anti-sand Series



3.5SD 2 Strong Anti-sand Series

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 : +35°C.
Maximum sand content:3%.
Maximum immersion :120m.
Minimum well diameter :3.5".

Motor and pump

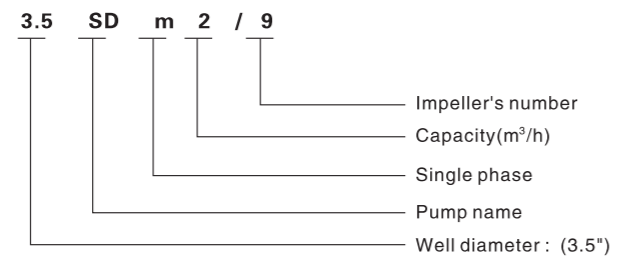
Rewindable motor
Three-phase: 350V-415V/50Hz
Single-phase: 150V-240V/50Hz
Equip with start-up control box.

Internal diameter of outlet

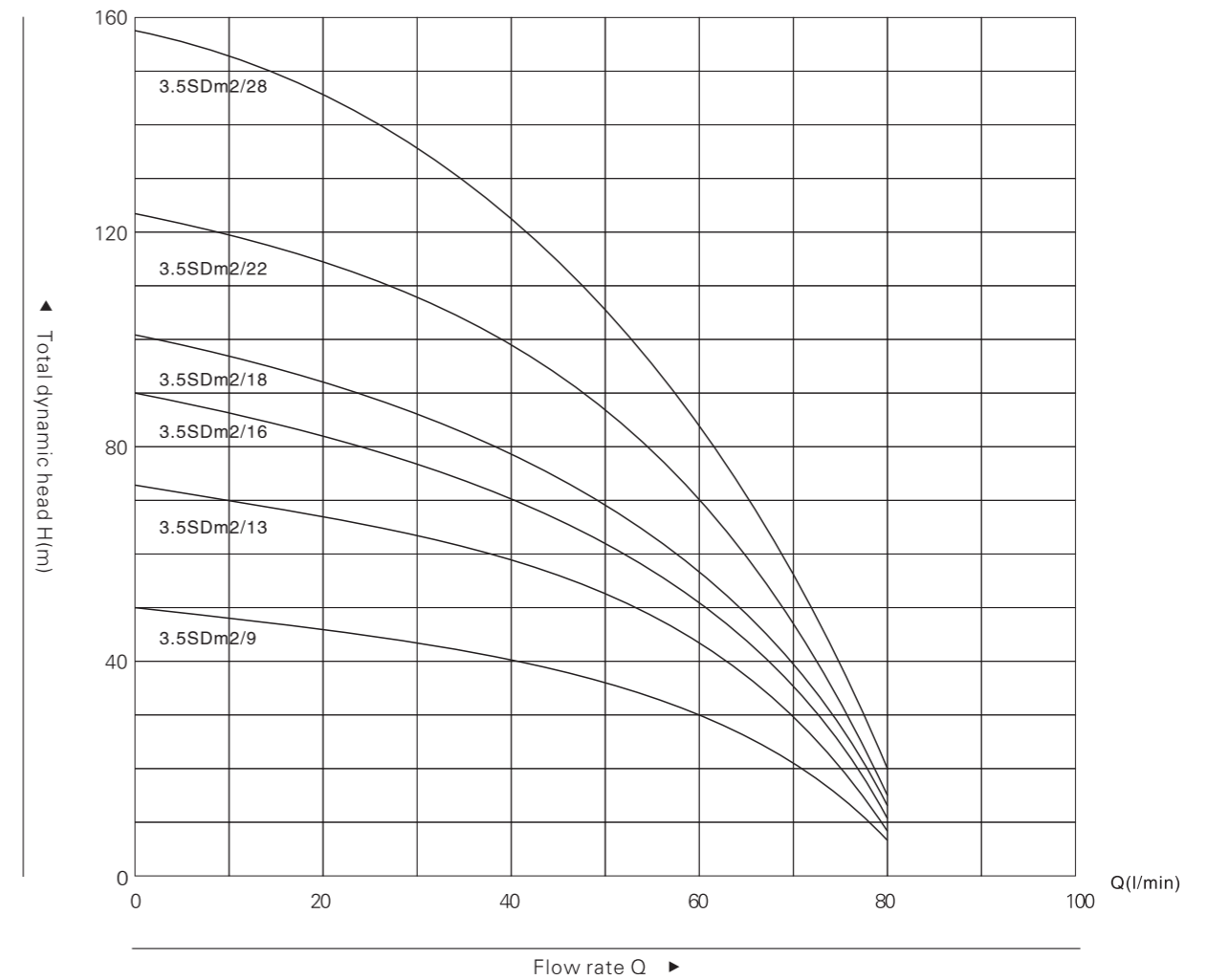
1.5"

Warranty: 1 year

(According to our general sales conditions).



COMPONENTS	MATERIAL
Pump casing	AISI 304SS/201SS
Outlet	Cast-Cu
Inlet	Cast-Cu
Strainer	AISI 304SS
Diffuser	PC
Impeller	POM
Pump shaft	AISI 304SS/201SS
Shaft coupling	AISI 304SS/201SS
Motor casing	AISI 304SS/201SS
Mechanical seal	Graphite-ceramic/TC
Top chock	Cast-Cu/Cast-iron
Motor shaft	AISI 304SS
Bearing	NSK/C&U
Seal lubricant oil	10# White Oil



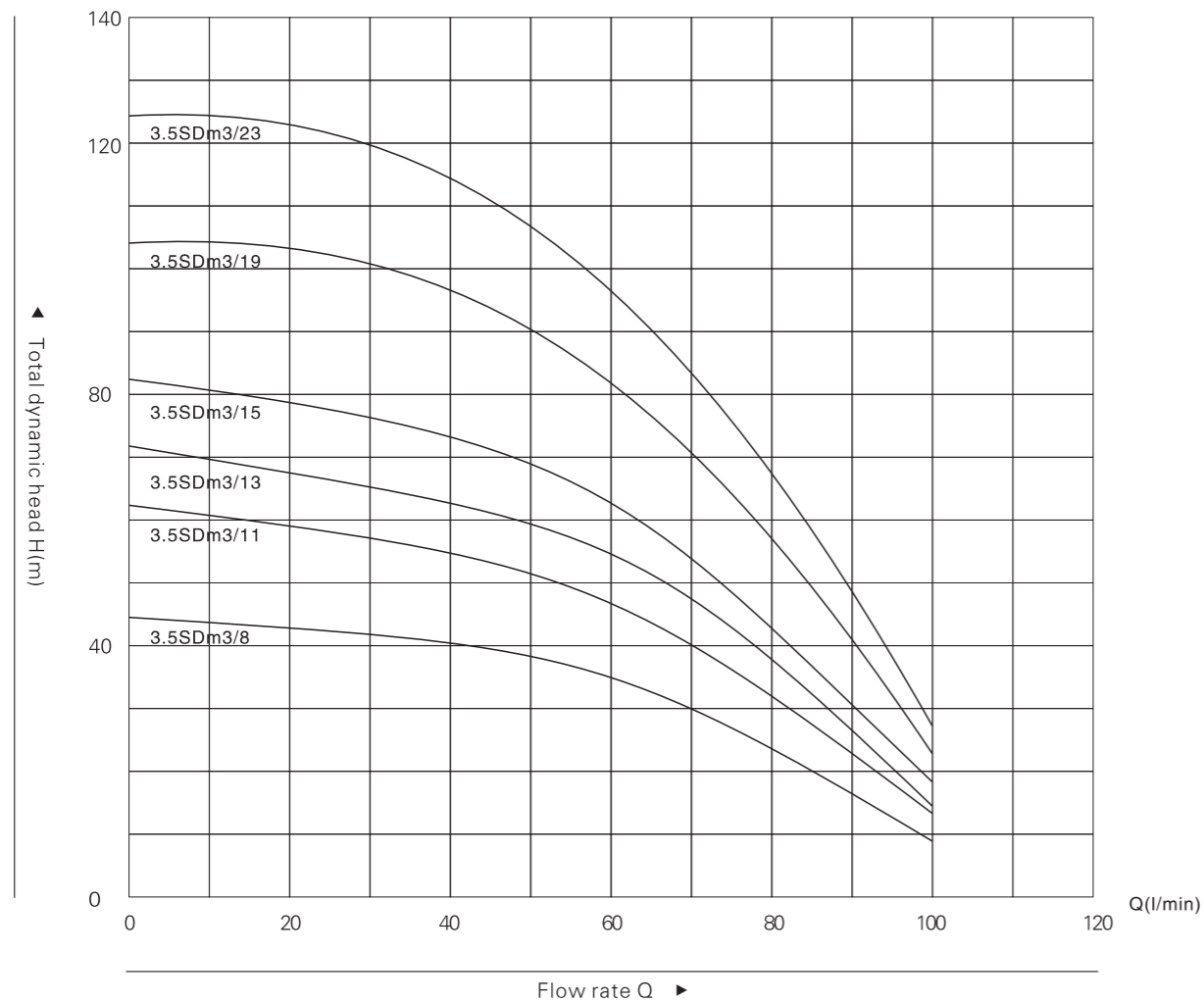
PERFORMANCE TABLE:

Type	Motor power		Delivery N ≈ 2850 r/min									
	1~220V-240V	3~380V-415V	Q m³/h	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8
3.5SDm2/9	3.5SD2/9	0.37 0.55	Q l/min	0	10	20	30	40	50	60	70	80
3.5SDm2/13	3.5SD2/13	0.55 0.75	H(m)	50	49	46	45	40	34	31	20	6
3.5SDm2/16	3.5SD2/16	0.75 1.0		73	70	66	64	57	52	44	29	9
3.5SDm2/18	3.5SD2/18	0.95 1.3		90	86	82	79	70	61	52	35	11
3.5SDm2/22	3.5SD2/22	1.1 1.5		101	97	92	89	79	68	57	40	13
3.5SDm2/28	3.5SD2/28	1.5 2.0		123	119	112	109	97	83	70	48	15
				157	151	143	139	123	106	85	56	20

3.5SD3 Strong Anti-sand Series



3.5QJ Strong Anti-sand Series



PERFORMANCE TABLE:

Type		Motor power		Delivery N ≈ 2850 r/min																					
1~220V-240V	3~380V-415V	KW	HP	Q m³/h l/min	H(m)																				
3.5SDm3/8	3.5SD3/8	0.37	0.55		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
3.5SDm3/11	3.5SD3/11	0.55	0.75	44	43	43	42	39	37	33	30	24	16	9	62	61	59	58	54	50	45	40	33	22	13
3.5SDm3/13	3.5SD3/13	0.75	1.0	72	71	69	68	64	59	53	47	39	26	15	82	81	79	78	74	68	62	55	45	30	18
3.5SDm3/15	3.5SD3/15	0.95	1.3	103	102	100	100	93	87	78	70	57	38	23	124	123	121	120	113	105	95	84	69	46	27
3.5SDm3/19	3.5SD3/19	1.1	1.5																						
3.5SDm3/23	3.5SD3/23	1.5	2.0																						



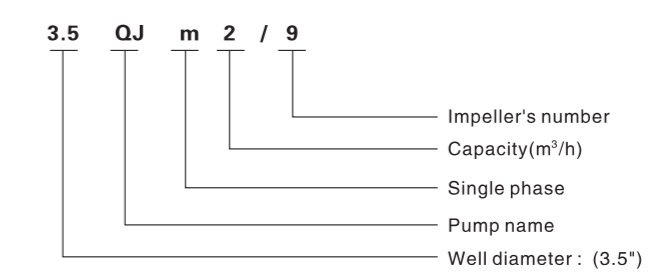
Applications
 For water supply from wells or reservoirs.
 For domestic use for civil and industrial applications .
 For garden use and irrigation.

Operating conditions
 Maximum fluid temperature :+35°C.
 Maximum sand content:3% .
 Maximum immersion :120m.
 Minimum well diameter :3.5".

Motor and pump
 Rewindable motor
 Three-phase: 350V-415V/50Hz
 Single-phase: 150V-240V/50Hz
 Equip with start -up control box.

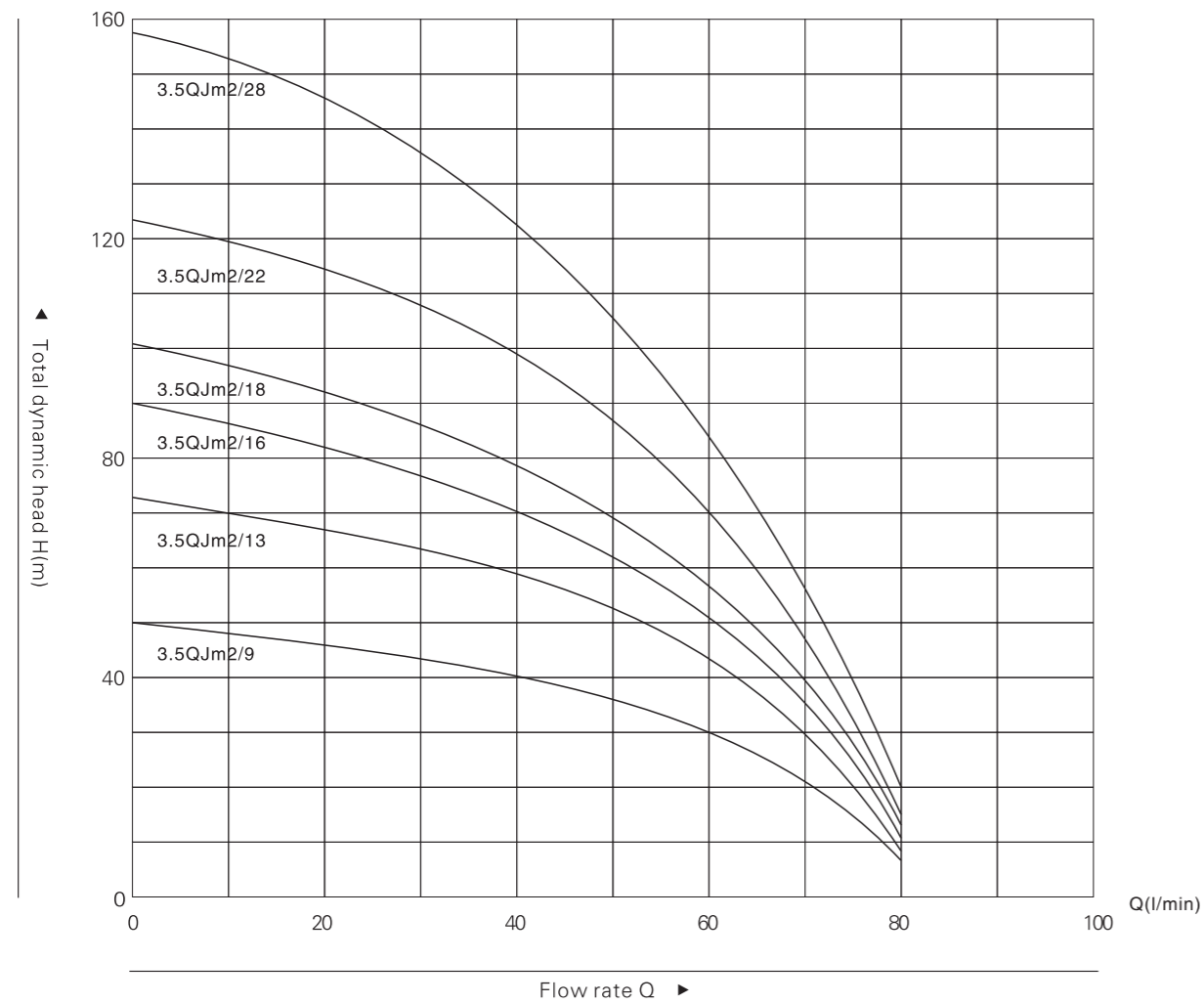
Internal diameter of outlet
 1.5"

Warranty: 1 year
 (According to our general sales conditions).



COMPONENTS	MATERIAL
Pump casing	AISI 304SS/201SS
Outlet	Cast-iron
Inlet	Cast-iron
Strainer	AISI 304SS
Diffuser	PC
Impeller	POM
Pump shaft	AISI 304SS/201SS
Shaft coupling	AISI 304SS/201SS
Motor casing	AISI 304SS/201SS
Mechanical seal	Graphite-ceramic/TC
Top chock	Cast-Cu/Cast-iron
Motor shaft	AISI 304SS
Bearing	NSK/C&U
Seal lubricant oil	10# White Oil

3.5QJ2 Strong Anti-sand Series

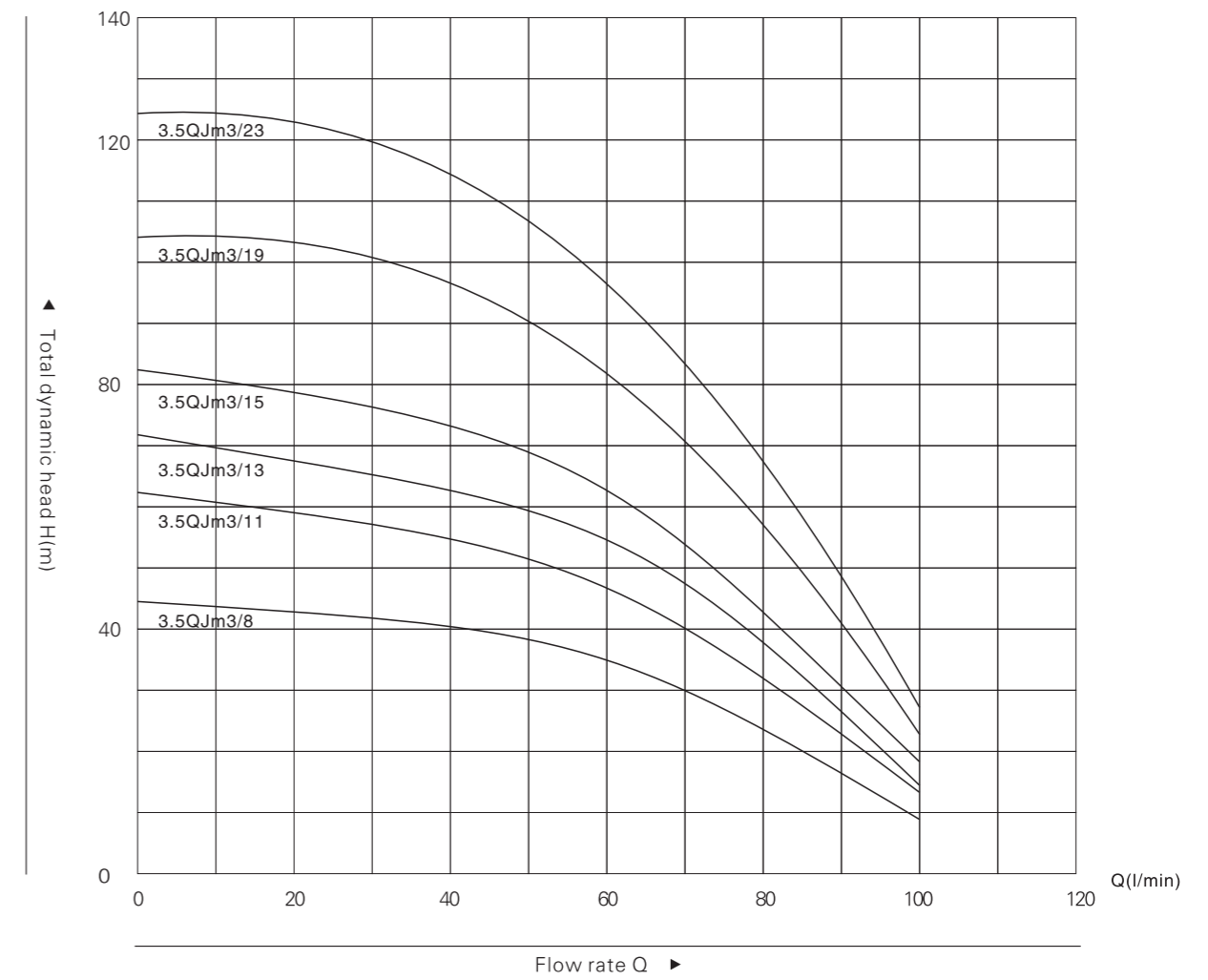


PERFORMANCE TABLE:

Type		Motor power		Delivery N ≈ 2850 r/min										
1-220V-240V	3-380V-415V	KW	HP	Q m³/h l/min	H(m)									
					0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	
3.5QJm2/9	3.5QJ2/9	0.37	0.55	0	10	20	30	40	50	60	70	80		
3.5QJm2/13	3.5QJ2/13	0.55	0.75	50	49	46	45	40	34	31	20	6		
3.5QJm2/16	3.5QJ2/16	0.75	1.0	73	70	66	64	57	52	44	29	9		
3.5QJm2/18	3.5QJ2/18	0.95	1.3	90	86	82	79	70	61	52	35	11		
3.5QJm2/22	3.5QJ2/22	1.1	1.5	101	97	92	89	79	68	57	40	13		
3.5QJm2/28	3.5QJ2/28	1.5	2.0	123	119	112	109	97	83	70	48	15		
				157	151	143	139	123	106	85	56	20		



3.5QJ3 Strong Anti-sand Series



PERFORMANCE TABLE:

Type		Motor power		Delivery N ≈ 2850 r/min												
1-220V-240V	3-380V-415V	KW	HP	Q m³/h l/min	H(m)											
					0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	
3.5QJm3/8	3.5QJ3/8	0.37	0.55	0	10	20	30	40	50	60	70	80	90	100		
3.5QJm3/11	3.5QJ3/11	0.55	0.75	44	43	43	42	39	37	33	30	24	16	9		
3.5QJm3/13	3.5QJ3/13	0.75	1.0	62	61	59	58	54	50	45	40	33	22	13		
3.5QJm3/15	3.5QJ3/15	0.95	1.3	72	71	69	68	64	59	53	47	39	26	15		
3.5QJm3/19	3.5QJ3/19	1.1	1.5	82	81	79	78	74	68	62	55	45	30	18		
3.5QJm3/23	3.5QJ3/23	1.5	2.0	103	102	100	100	93	87	78	70	57	38	23		
				124	123	121	120	113	105	95	84	69	46	27		



FROG PUMP

SINCE 1988

CHINA'S NO.1 BRAND OF DEEP WELL PUMPS

Anti-sand,
more durable!



FROG PUMP INDUSTRY CO., LTD

<http://www.frogpump.com>

4SD Strong Anti-sand Series



4SD2 Strong Anti-sand Series

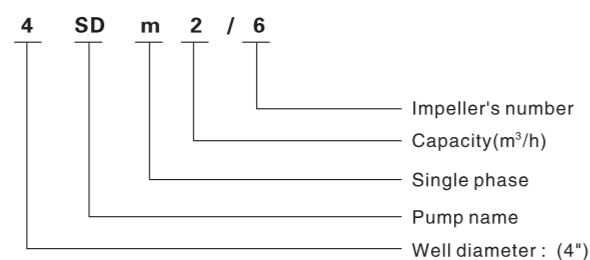
Applications
 For water supply from wells or reservoirs.
 For domestic use for civil and industrial applications.
 For garden use and irrigation.

Operating conditions
 Maximum fluid temperature: +35°C.
 Maximum sand content: 3%.
 Maximum immersion: 120m.
 Minimum well diameter: 4".

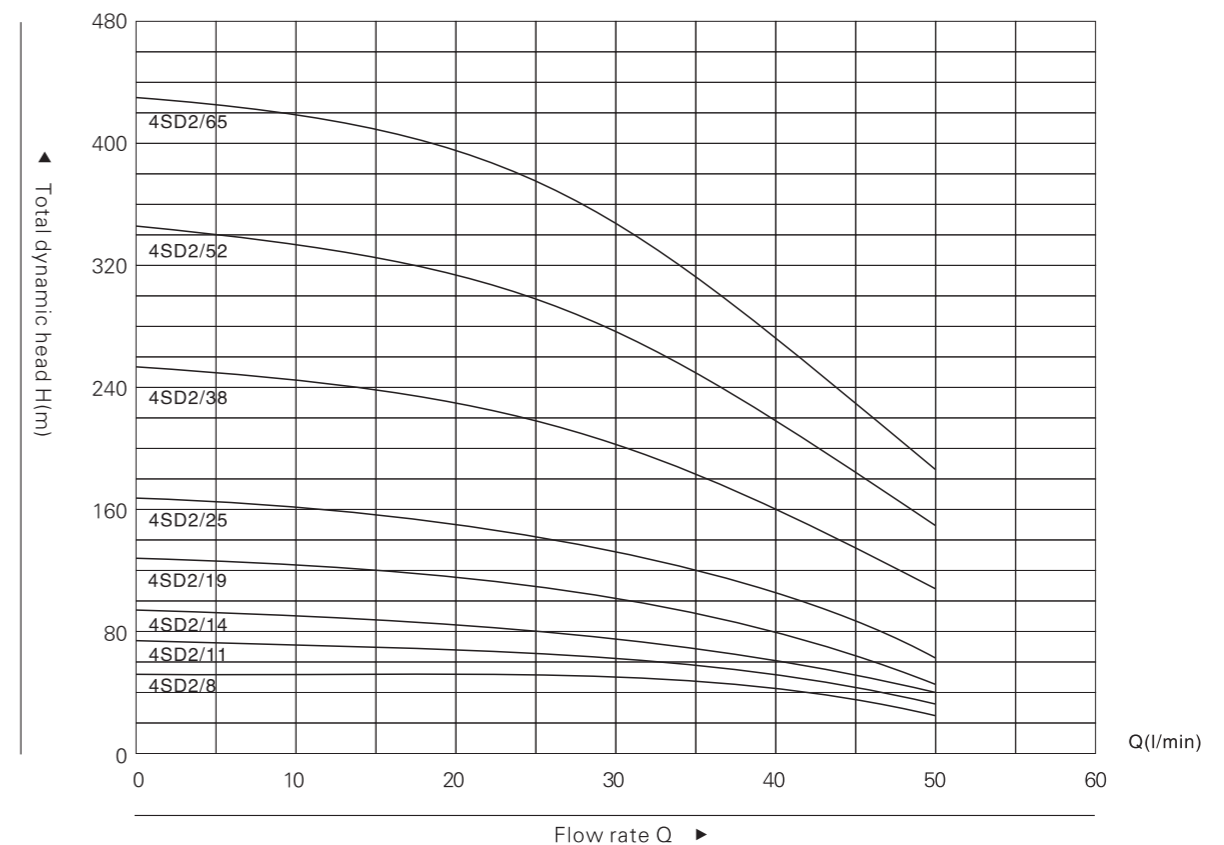
Motor and pump
 Rewindable motor
 Three-phase: 350V-415V/50Hz
 Single-phase: 150V-240V/50Hz
 Equip with start-up control box
 NEMA dimension standards

Internal diameter of outlet
 1.25" 1.5" 2"

Warranty: 1 year
 (According to our general sales conditions).



COMPONENTS	MATERIAL
Pump casing	AISI 304SS/201SS
Outlet	Cast-Cu
Inlet	Cast-Cu
Strainer	AISI 304SS
Diffuser	PC
Impeller	POM
Pump shaft	AISI 304SS/201SS
Shaft coupling	AISI 304SS/201SS
Motor casing	AISI 304SS/201SS
Mechanical seal	Graphite-ceramic/TC
Top chock	Cast-Cu/Cast-iron
Motor shaft	AISI 304SS
Bearing	NSK/C&U
Seal lubricant oil	10# White Oil



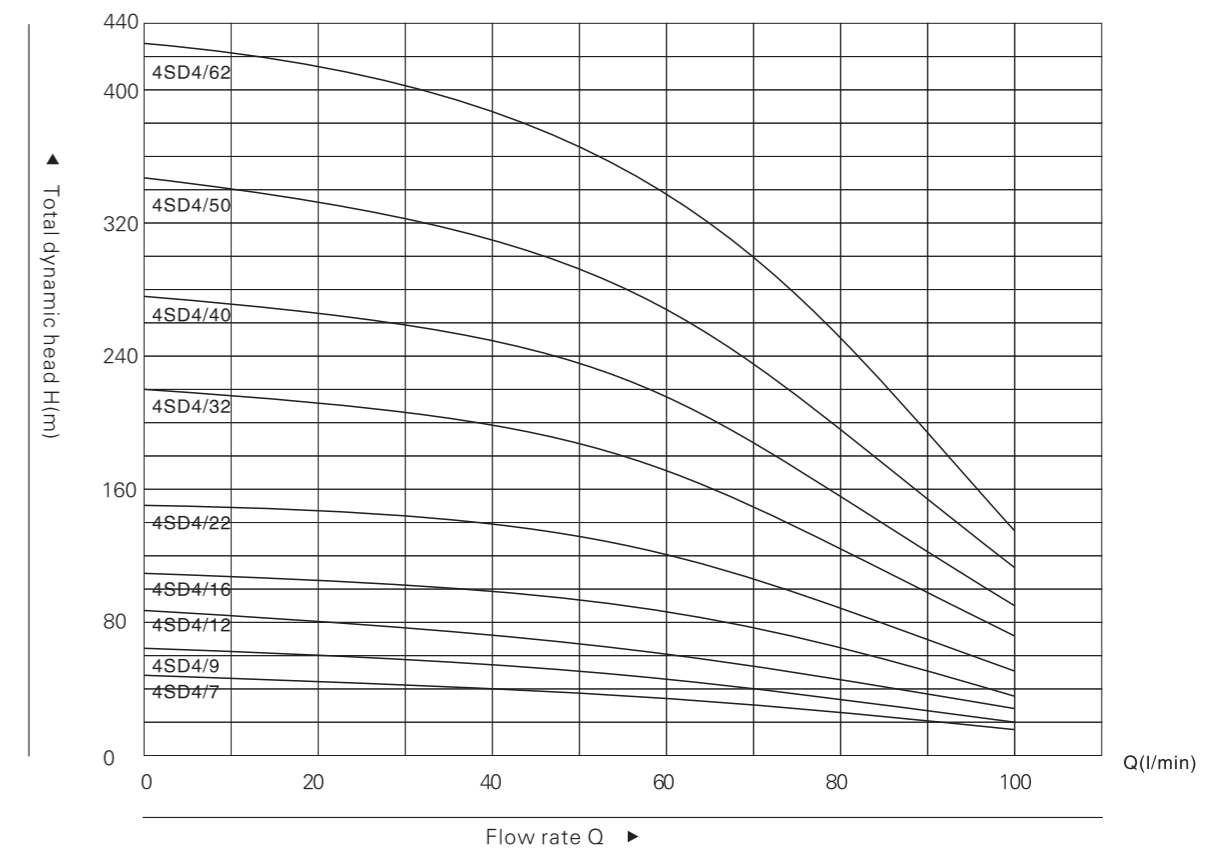
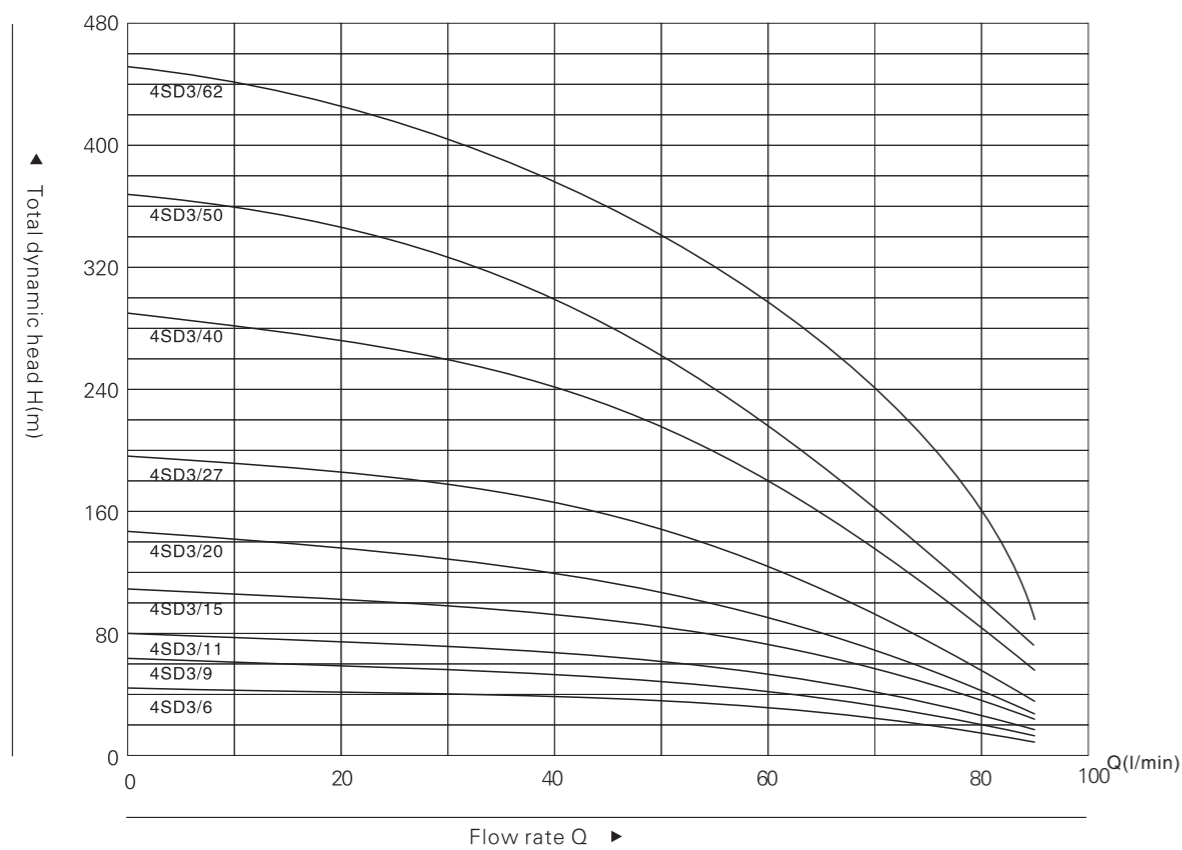
PERFORMANCE TABLE:

Type	Motor power		Delivery N≈2850 r/min												
	1~220V-240V	3~380V-415V	Q m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	
4SDm2/8	4SD2/8	0.37 0.5	H(m)	53	52	51	51	48	46	42	38	34	28	23	
4SDm2/11	4SD2/11	0.55 0.75		75	72	70	70	67	63	58	52	46	39	31	
4SDm2/14	4SD2/14	0.75 1.0		93	92	90	89	85	80	74	67	59	50	40	
4SDm2/19	4SD2/19	1.1 1.5		126	124	122	120	115	109	100	90	80	67	54	
4SDm2/25	4SD2/25	1.5 2.0		166	164	160	158	151	143	132	119	105	89	71	
4SDm2/38	4SD2/38	2.2 3.0		252	249	243	240	230	218	201	181	160	135	108	
---	4SD2/52	3.0 4.0		345	341	333	329	315	298	275	248	218	184	148	
---	4SD2/65	4.0 5.5		431	426	416	411	393	373	343	309	273	230	185	

4SD3 Strong Anti-sand Series



4SD4 Strong Anti-sand Series



PERFORMANCE TABLE:

Type		Motor power		Delivery N≈2850 r/min										
1~220V-240V	3~380V-415V	KW	HP	Q m³/h	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4
4SDm3/6	4SD3/6	0.37	0.5	H(m)	0	10	20	30	40	50	60	70	80	90
4SDm3/9	4SD3/9	0.55	0.75		44	43	41	39	36	32	27	21	15	9
4SDm3/11	4SD3/11	0.75	1.0		65	64	62	59	54	48	41	32	23	13
4SDm3/15	4SD3/15	1.1	1.5		80	79	76	72	66	59	50	39	28	16
4SDm3/20	4SD3/20	1.5	2.0		109	107	104	98	90	81	68	53	39	22
4SDm3/27	4SD3/27	2.2	3.0		145	143	138	130	120	108	90	70	52	29
-----	4SD3/40	3.0	4.0		196	193	186	176	162	145	122	95	70	39
-----	4SD3/50	4.0	5.5		290	286	276	260	240	215	180	140	103	58
-----	4SD3/62	5.5	7.5		363	358	345	325	300	269	225	175	129	72
-----					450	443	428	403	372	334	279	217	160	89

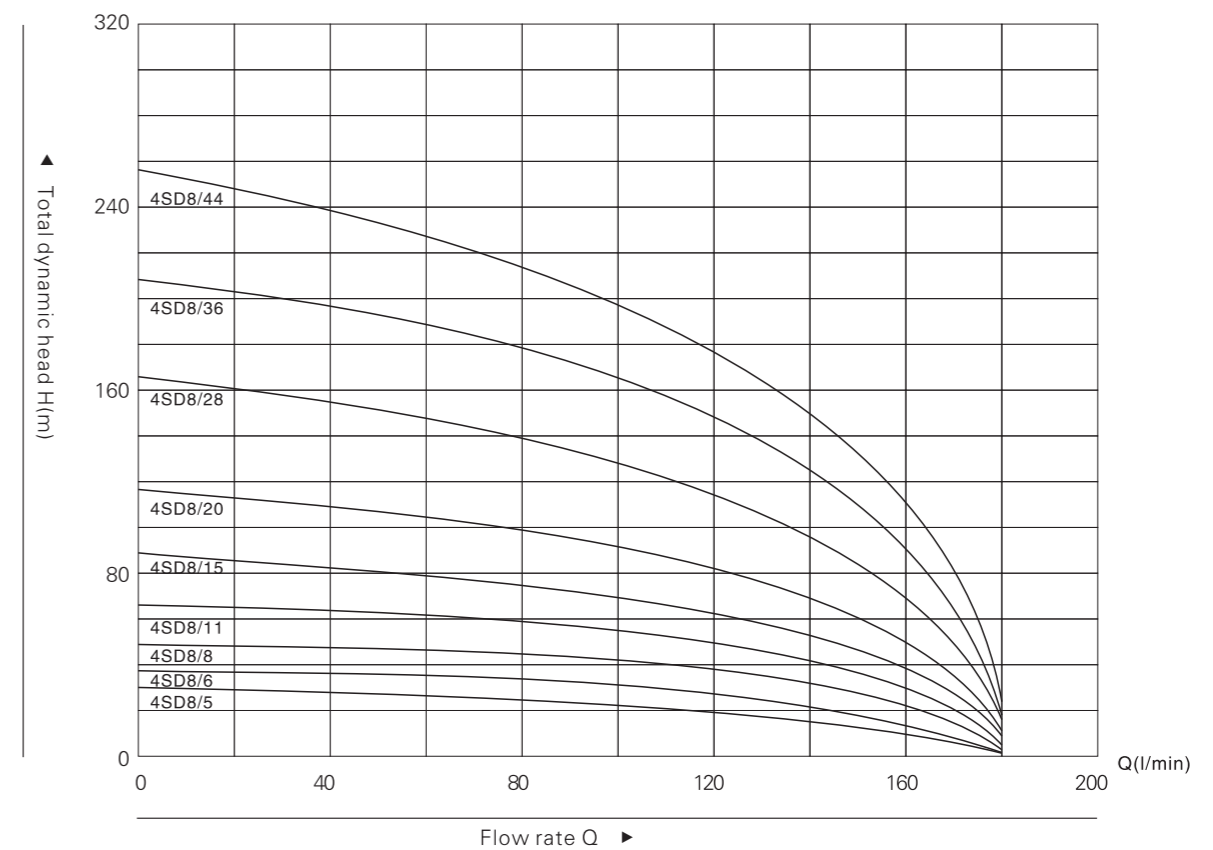
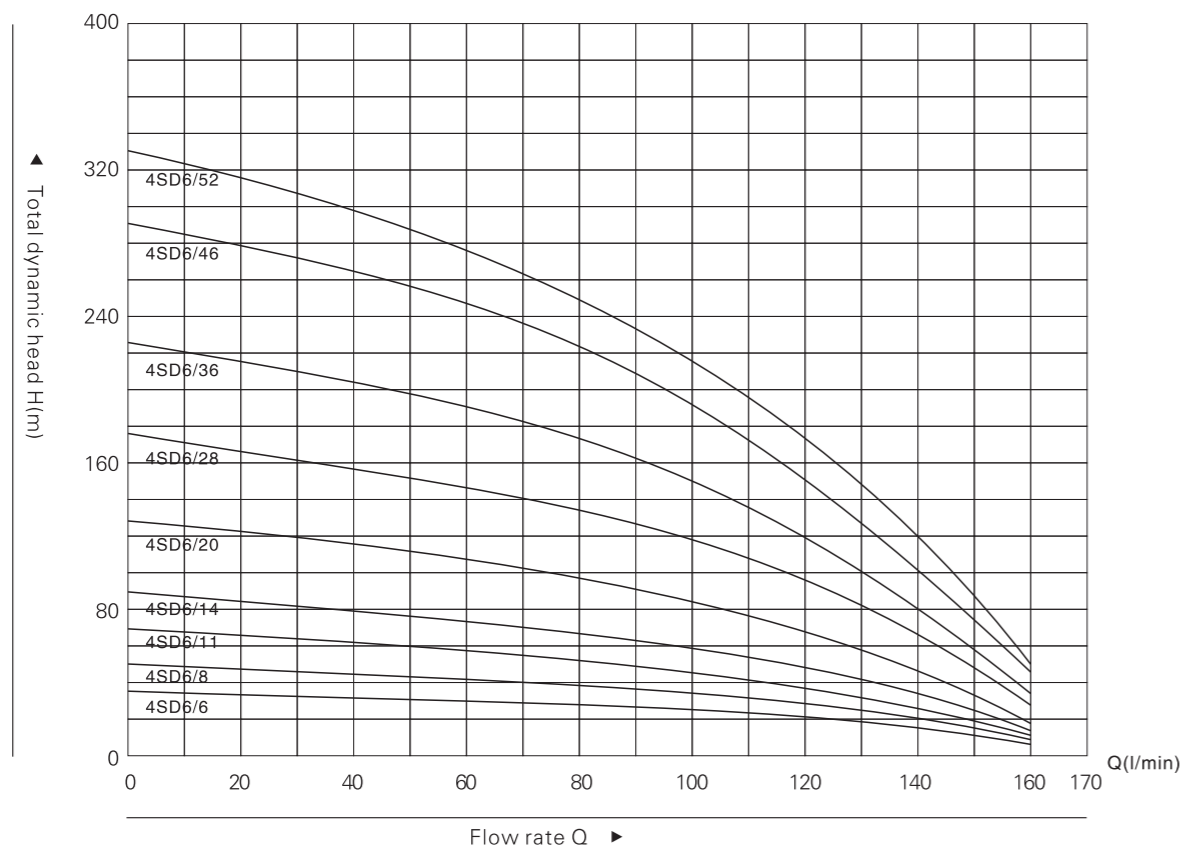
PERFORMANCE TABLE:

Type		Motor power		Delivery N≈2850 r/min												
1~220V-240V	3~380V-415V	KW	HP	Q m³/h	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	
4SDm4/7	4SD4/7	0.55	0.75	H(m)	0	10	20	30	40	50	60	70	80	90	100	
4SDm4/9	4SD4/9	0.75	1.0		48	48	46	45	43	41	38	33	27	22	16	
4SDm4/12	4SD4/12	1.1	1.5		62	61	59	58	55	53	49	43	35	28	20	
4SDm4/16	4SD4/16	1.5	2.0		83	81	79	78	73	71	65	57	46	37	27	
4SDm4/22	4SD4/22	2.2	3.0		110	109	105	104	98	94	86	76	62	49	36	
-----	4SD4/32	3.0	4.0		151	149	144	143	134	130	119	104	85	68	49	
-----	4SD4/40	4.0	5.5		220	217	210	208	195	189	173	151	124	99	71	
-----	4SD4/50	5.5	7.5		275	272	262	260	244	236	216	189	154	124	89	
-----	4SD4/62	7.5	10		344	340	328	325	305	295	270	237	193	155	111	
-----					427	421	406	402	382	366	335	298	249	192	138	

4SD 6 Strong Anti-sand Series



4SD 8 Strong Anti-sand Series



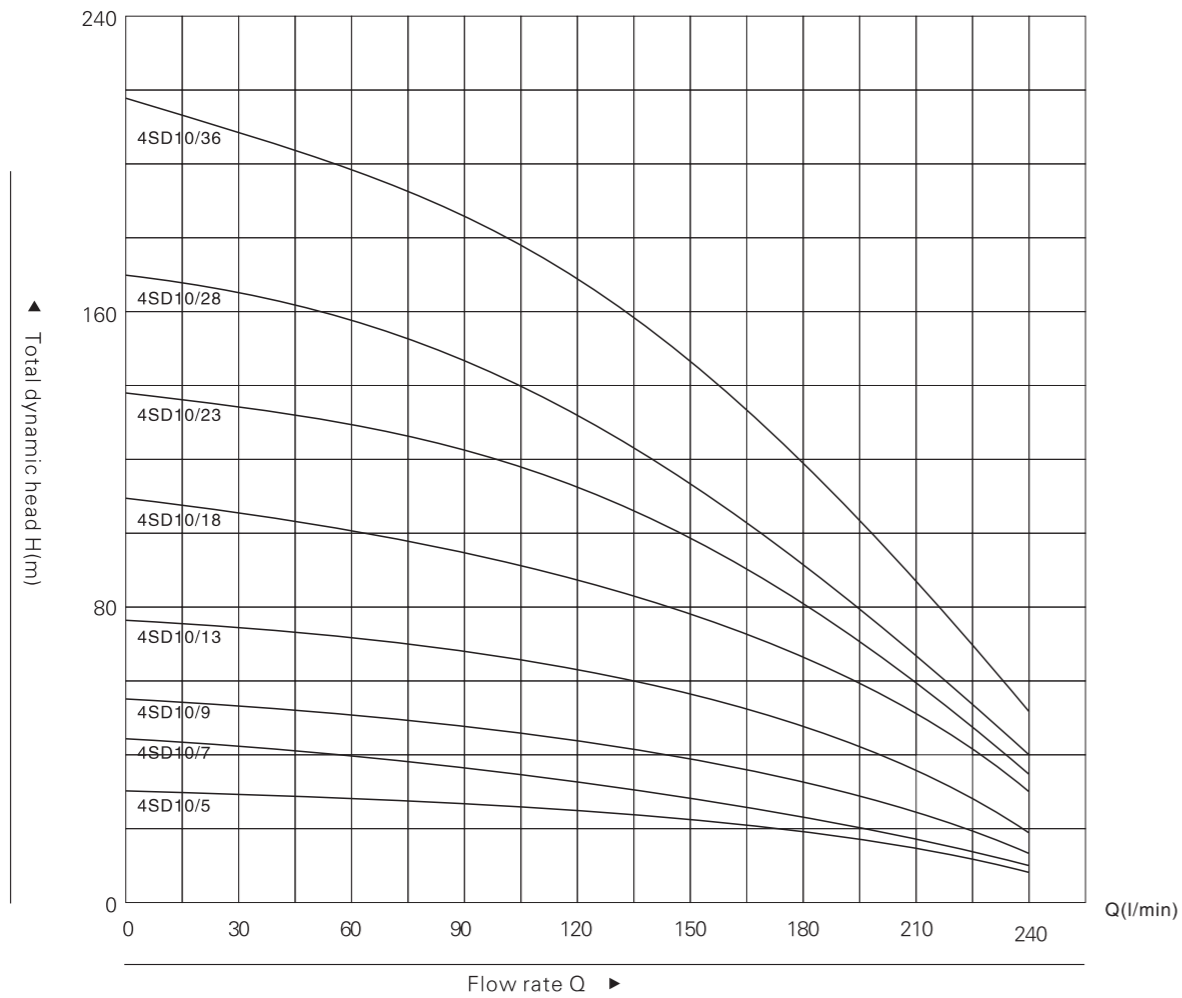
PERFORMANCE TABLE:

Type		Motor power		Delivery N≈2850 r/min									
1~220V-240V	3~380V-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
4SDm6/6	4SD6/6	0.55	0.75	H(m)	38	36	34	32	29	25	20	13	6
4SDm6/8	4SD6/8	0.75	1.0		50	48	45	43	39	34	26	17	8
4SDm6/11	4SD6/11	1.1	1.5		69	66	62	59	54	46	36	23	10
4SDm6/14	4SD6/14	1.5	2.0		88	85	78	75	68	59	46	30	13
4SDm6/20	4SD6/20	2.2	3.0		126	121	112	107	98	84	65	43	19
----	4SD6/28	3.0	4.0		177	169	157	150	137	118	92	60	26
----	4SD6/36	4.0	5.5		227	218	202	192	176	152	118	77	34
----	4SD6/46	5.5	7.5		290	278	258	246	225	194	151	98	43
----	4SD6/52	7.5	10		328	314	291	278	254	219	170	111	49

PERFORMANCE TABLE:

Type		Motor power		Delivery N≈2850 r/min											
1~220V-240V	3~380V-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	
4SDm8/5	4SD8/5	0.55	0.75	H(m)	29	28	27	26	25	23	20	17	13	3	
4SDm8/6	4SD8/6	0.75	1.0		35	34	33	31	29	27	24	21	15	3	
4SDm8/8	4SD8/8	1.1	1.5		46	45	44	41	39	36	32	27	21	4	
4SDm8/11	4SD8/11	1.5	2.0		64	62	60	57	54	50	45	38	28	6	
4SDm8/15	4SD8/15	2.2	3.0		87	84	82	78	74	68	61	51	39	8	
----	4SD8/20	3.0	4.0		116	113	109	103	98	91	81	69	52	10	
----	4SD8/28	4.0	5.5		162	158	153	145	137	127	114	96	72	14	
----	4SD8/36	5.5	7.5		209	203	196	186	177	163	146	123	93	18	
----	4SD8/44	7.5	10		255	248	240	227	216	200	179	151	114	22	

4SD 10 Strong Anti-sand Series

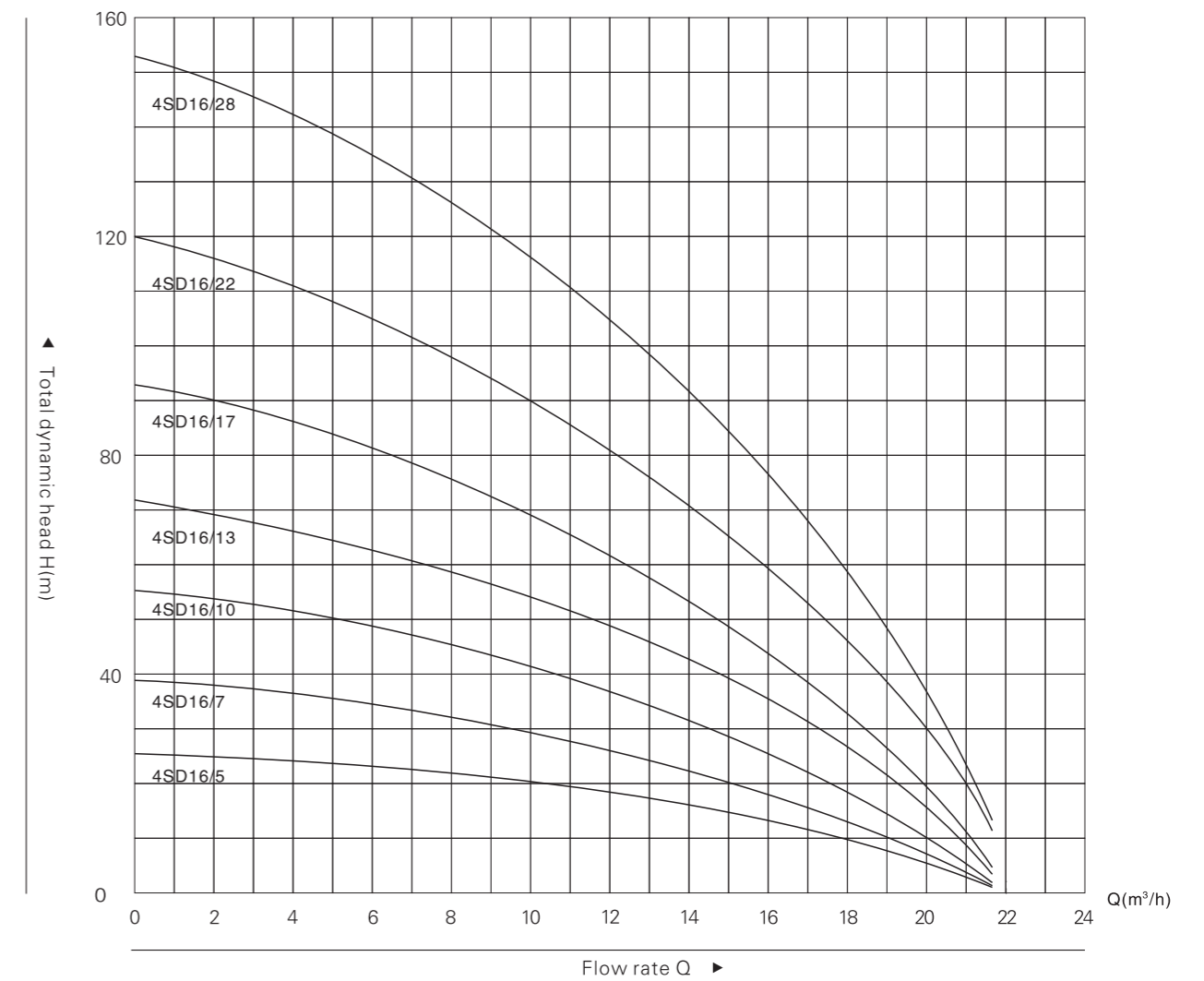


PERFORMANCE TABLE:

Type		Motor power		Delivery N ≈ 2850 r/min										
1~220V-240V	3~380V-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	
4SDm10/5	4SD10/5	0.75	1.0	H(m)	0	30	28	26	24	21	16	13	7	
4SDm10/7	4SD10/7	1.1	1.5		30	41	39	37	34	29	22	17	10	
4SDm10/9	4SD10/9	1.5	2.0		42	53	50	47	43	37	28	22	13	
4SDm10/13	4SD10/13	2.2	3.0		55	77	72	68	63	54	41	37	19	
----	4SD10/18	3.0	4.0		79	109	107	100	94	87	75	57	51	26
----	4SD10/23	4.0	5.5		109	139	136	127	121	111	95	72	59	33
----	4SD10/28	5.5	7.5		139	170	166	155	147	135	116	88	68	40
----	4SD10/36	7.5	10.0		170	218	213	199	189	174	149	113	82	52



4SD 16 Strong Anti-sand Series



PERFORMANCE TABLE:

Type		Motor power		Delivery N ≈ 2850 r/min									
1~220V-240V	3~380V-415V	KW	HP	Q m³/h l/min	0	6	8	10	12	14	16	18	21.6
4SDm16/5	4SD16/5	1.1	1.5	H(m)	0	100	130	165	200	230	265	300	360
4SDm16/7	4SD16/7	1.5	2.0		27	24	22	20	19	17	14	11	3
4SDm16/10	4SD16/10	2.2	3.0		38	34	31	27	26	24	20	16	4
----	4SD16/13	3.0	4.0		55	48	45	39	37	34	28	23	6
----	4SD16/17	4.0	5.5		71	63	58	51	48	44	36	29	7
----	4SD16/22	5.5	7.5		93	82	76	66	62	58	48	38	9
----	4SD16/28	7.5	10.0		120	106	99	86	80	75	62	50	11
----					153	135	125	109	101	95	78	63	14

4SS Strong Anti-sand Series



4SS2 Strong Anti-sand Series

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 : +35°C.
Maximum sand content:3%.
Maximum immersion :120m.
Minimum well diameter :4".

Motor and pump

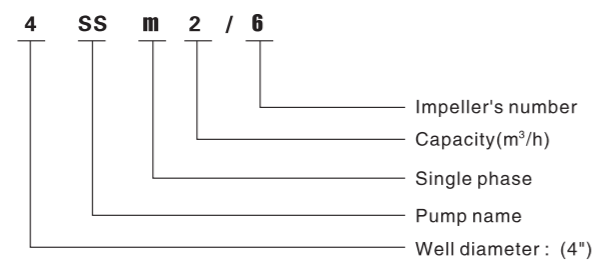
Rewindable motor
Three-phase: 350V-415V/50Hz
Single-phase: 150V-240V/50Hz
Equip with start-up control box.
NEMA dimension standards

Internal diameter of outlet

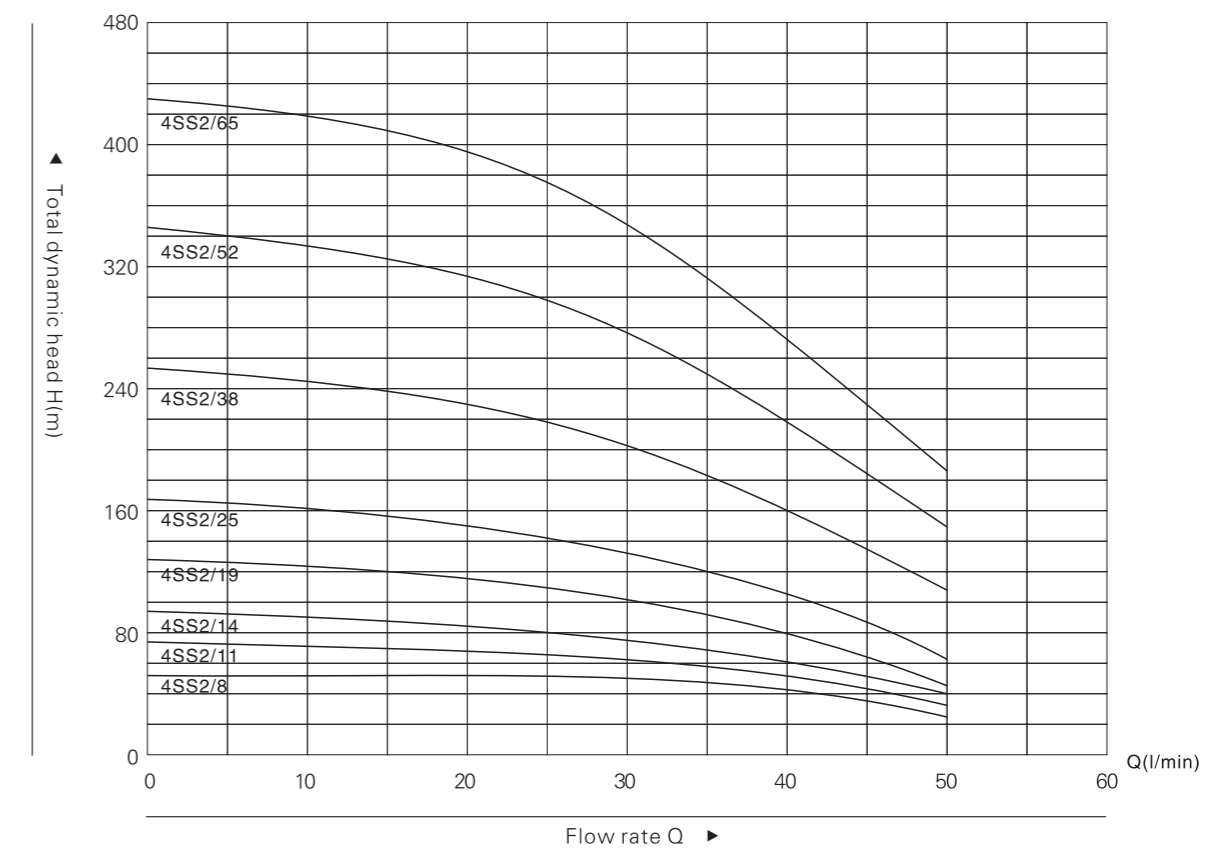
1.25" 1.5" 2"

Warranty: 1 year

(According to our general sales conditions).



COMPONENTS	MATERIAL
Pump casing	AISI 304SS/201SS
Outlet	AISI 304SS
Inlet	AISI 304SS
Strainer	AISI 304SS
Diffuser	PC
Impeller	POM
Pump shaft	AISI 304SS/201SS
Shaft coupling	AISI 304SS/201SS
Motor casing	AISI 304SS/201SS
Mechanical seal	Graphite-ceramic/TC
Top chock	Cast-Cu/Cast-iron
Motor shaft	AISI 304SS
Bearing	NSK/C&U
Seal lubricant oil	10# White Oil



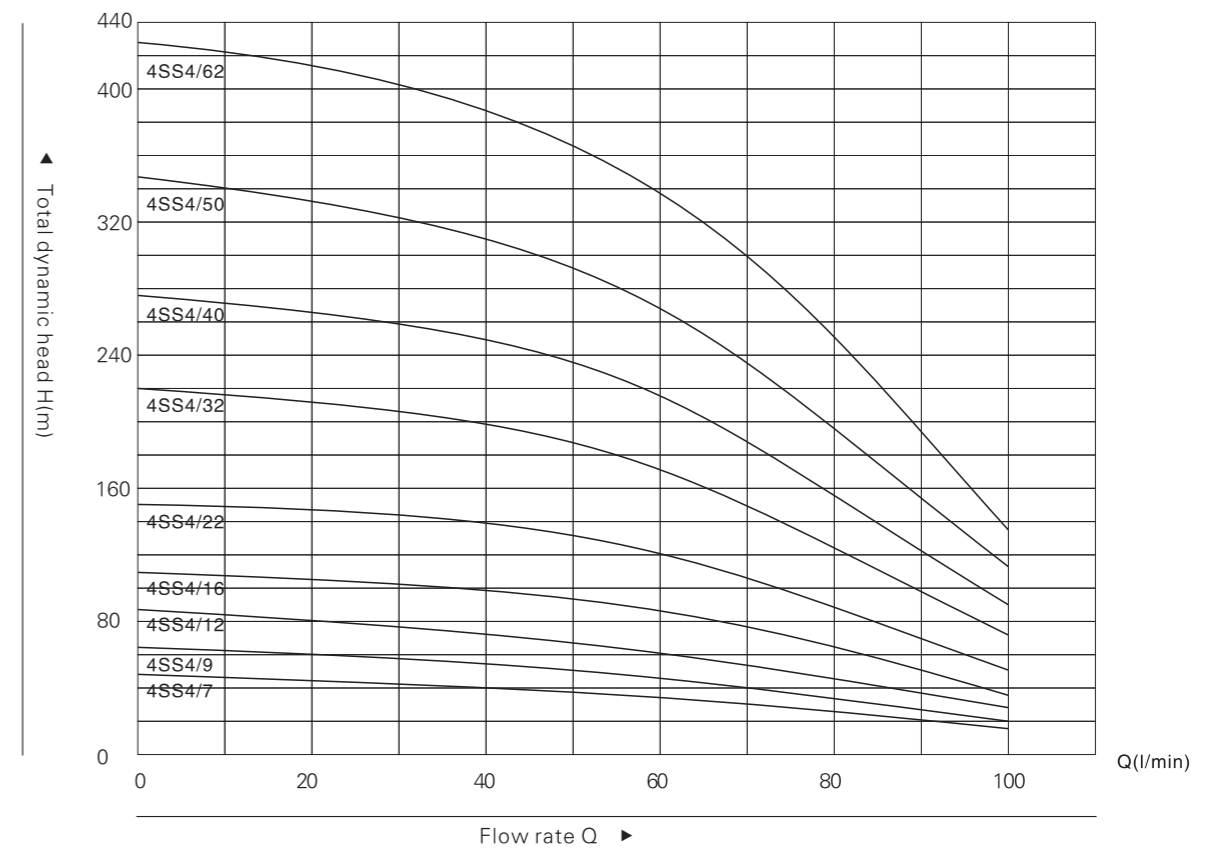
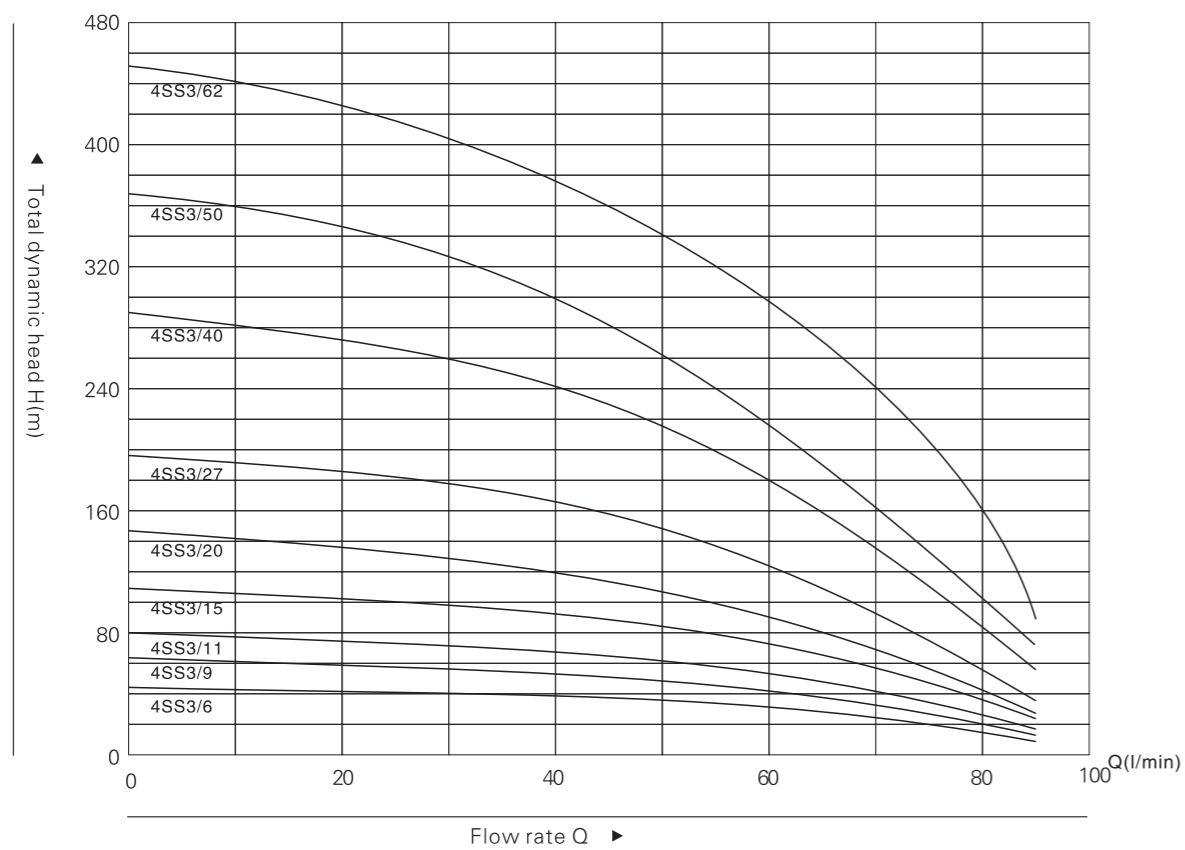
PERFORMANCE TABLE:

Type		Motor power		Delivery N≈2850 r/min												
1~220V-240V	3~380V-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	3.0	
4SSm2/8	4SS2/8	0.37	0.5		H(m)	0	5	10	15	20	25	30	35	40	45	50
4SSm2/11	4SS2/11	0.55	0.75	53		52	51	51	48	46	42	38	34	28	23	
4SSm2/14	4SS2/14	0.75	1.0	75		72	70	70	67	63	58	52	46	39	31	
4SSm2/19	4SS2/19	1.1	1.5	93		92	90	89	85	80	74	67	59	50	40	
4SSm2/25	4SS2/25	1.5	2.0	126		124	122	120	115	109	100	90	80	67	54	
4SSm2/38	4SS2/38	2.2	3.0	166		164	160	158	151	143	132	119	105	89	71	
---	4SS2/52	3.0	4.0	252		249	243	240	230	218	201	181	160	135	108	
---	4SS2/65	4.0	5.5	345		341	333	329	315	298	275	248	218	184	148	
---	---	---	---	431		426	416	411	393	373	343	309	273	230	185	

4SS3 Strong Anti-sand Series



4SS4 Strong Anti-sand Series



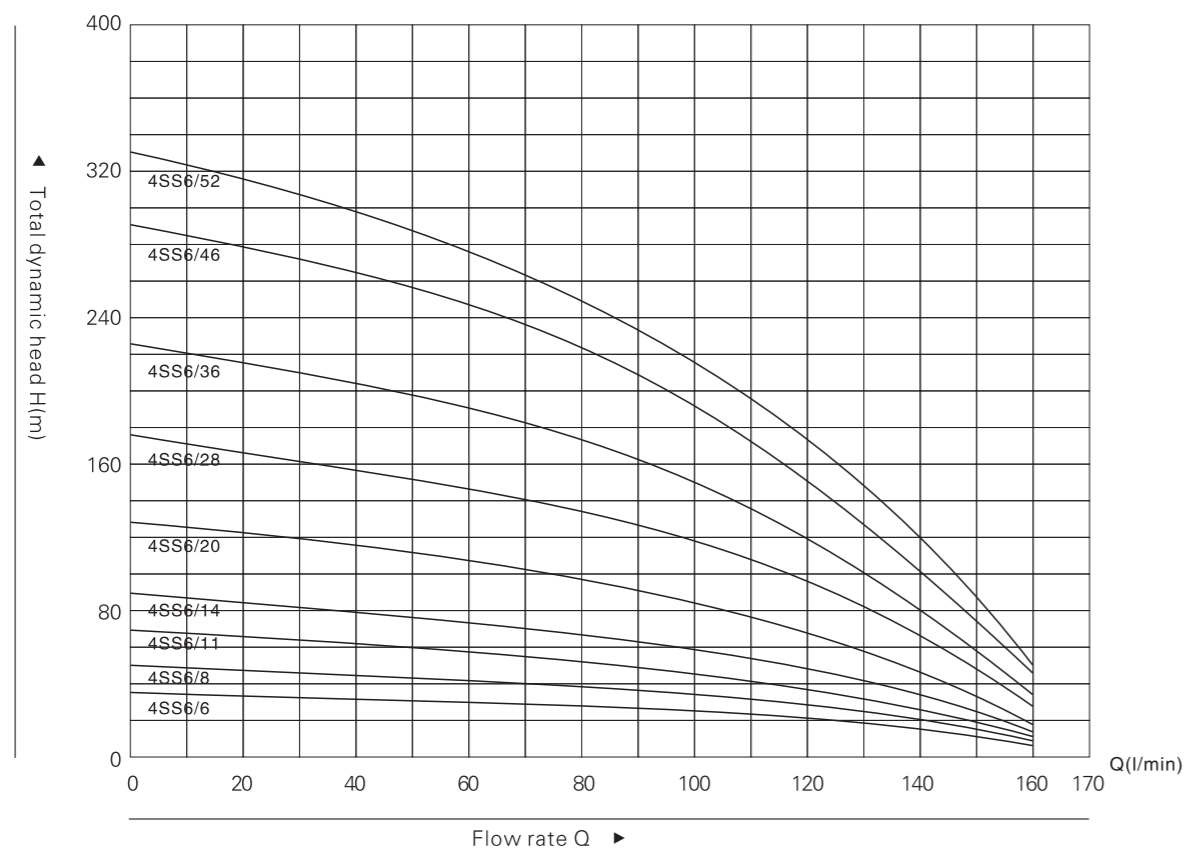
PERFORMANCE TABLE:

Type		Motor power		Delivery N ≈ 2850 r/min																				
1~220V-240V	3~380V-415V	KW	HP	Q m³/h	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	H(m)									
				l/min	0	10	20	30	40	50	60	70	80	90	44	43	41	39	36	32	27	21	15	9
4SSm3/6	4SS3/6	0.37	0.5		65	64	62	59	54	48	41	32	23	13	80	79	76	72	66	59	50	39	28	16
4SSm3/9	4SS3/9	0.55	0.75		109	107	104	98	90	81	68	53	39	22	145	143	138	130	120	108	90	70	52	29
4SSm3/11	4SS3/11	0.75	1.0		196	193	186	176	162	145	122	95	70	39	290	286	276	260	240	215	180	140	103	58
4SSm3/15	4SS3/15	1.1	1.5		363	358	345	325	300	269	225	195	129	72	450	443	428	403	372	334	299	240	160	89
4SSm3/20	4SS3/20	1.5	2.0																					
4SSm3/27	4SS3/27	2.2	3.0																					
-----	4SS3/40	3.0	4.0																					
-----	4SS3/50	4.0	5.5																					
-----	4SS3/62	5.5	7.5																					

PERFORMANCE TABLE:

Type		Motor power		Delivery N ≈ 2850 r/min																						
1~220V-240V	3~380V-415V	KW	HP	Q m³/h	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	H(m)										
				l/min	0	10	20	30	40	50	60	70	80	90	100	48	48	46	45	43	41	38	33	27	22	16
4SSm4/7	4SS4/7	0.55	0.75		62	61	59	58	55	53	49	43	35	28	20	83	81	79	78	73	71	65	57	46	37	27
4SSm4/9	4SS4/9	0.75	1.0		110	109	105	104	98	94	86	76	62	49	36	151	149	144	143	134	130	119	104	85	68	49
4SSm4/12	4SS4/12	1.1	1.5		220	217	210	208	195	189	173	151	124	99	71	275	272	262	260	244	236	216	189	154	124	89
4SSm4/16	4SS4/16	1.5	2.0		344	340	328	325	305	295	270	237	193	155	111	427	421	406	402	382	366	335	298	249	192	138
4SSm4/22	4SS4/22	2.2	3.0																							
-----	4SS4/32	3.0	4.0																							
-----	4SS4/40	4.0	5.5																							
-----	4SS4/50	5.5	7.5																							
-----	4SS4/62	7.5	10																							

4SS 6 Strong Anti-sand Series

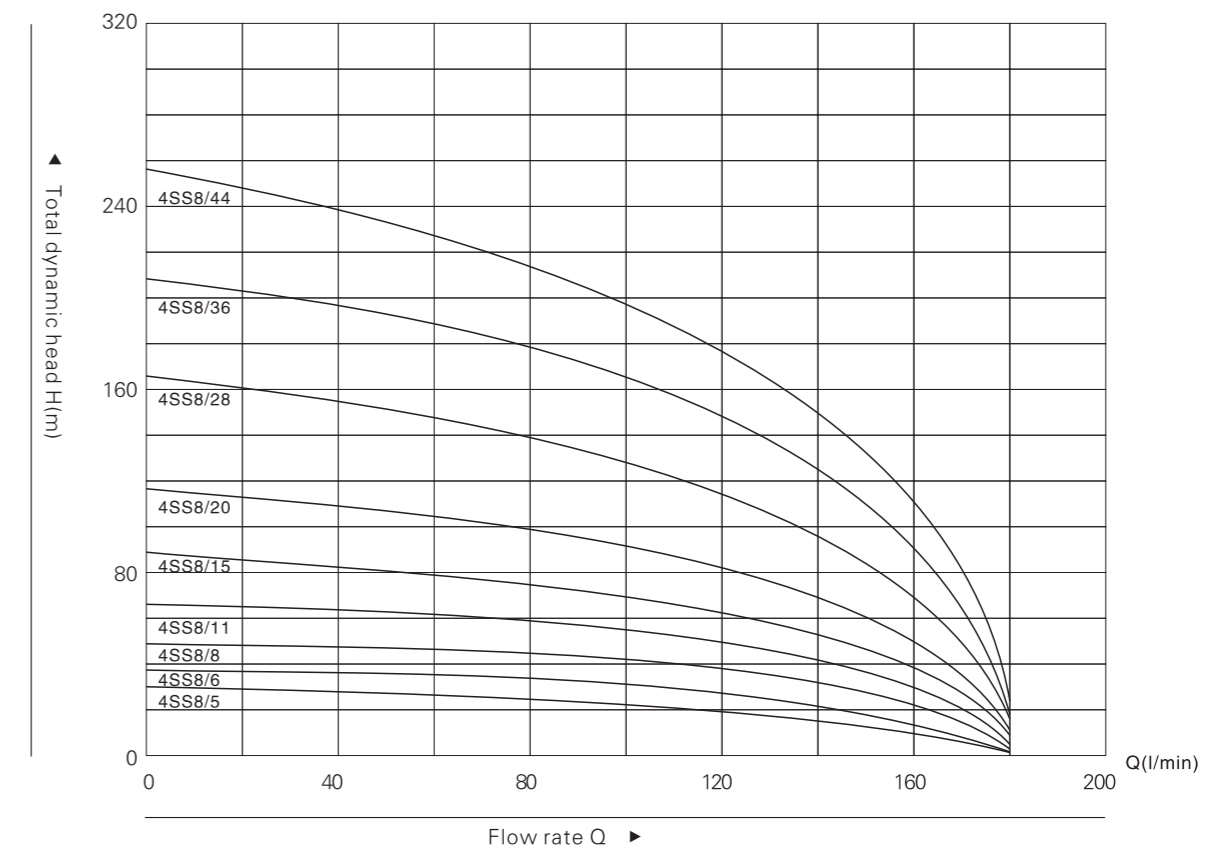


PERFORMANCE TABLE:

Type		Motor power		Delivery N ≈ 2850 r/min																		
1~220V-240V	3~380V-415V	KW	HP	Q m³/h	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	H(m)								
				l/min	0	20	40	60	80	100	120	140	160	38	36	34	32	29	25	20	13	6
4SSm6/6	4SS6/6	0.55	0.75		50	48	45	43	39	34	26	17	8	69	66	62	59	54	46	36	23	10
4SSm6/8	4SS6/8	0.75	1.0		88	85	78	75	68	59	46	30	13	126	121	112	107	98	84	65	43	19
4SSm6/11	4SS6/11	1.1	1.5		177	169	157	150	137	118	92	60	26	227	218	202	192	176	152	118	77	34
4SSm6/14	4SS6/14	1.5	2.0		290	278	258	246	225	194	151	98	43	328	314	291	278	254	219	170	111	49
4SSm6/20	4SS6/20	2.2	3.0																			
---	4SS6/28	3.0	4.0																			
---	4SS6/36	4.0	5.5																			
---	4SS6/46	5.5	7.5																			
---	4SS6/52	7.5	10																			



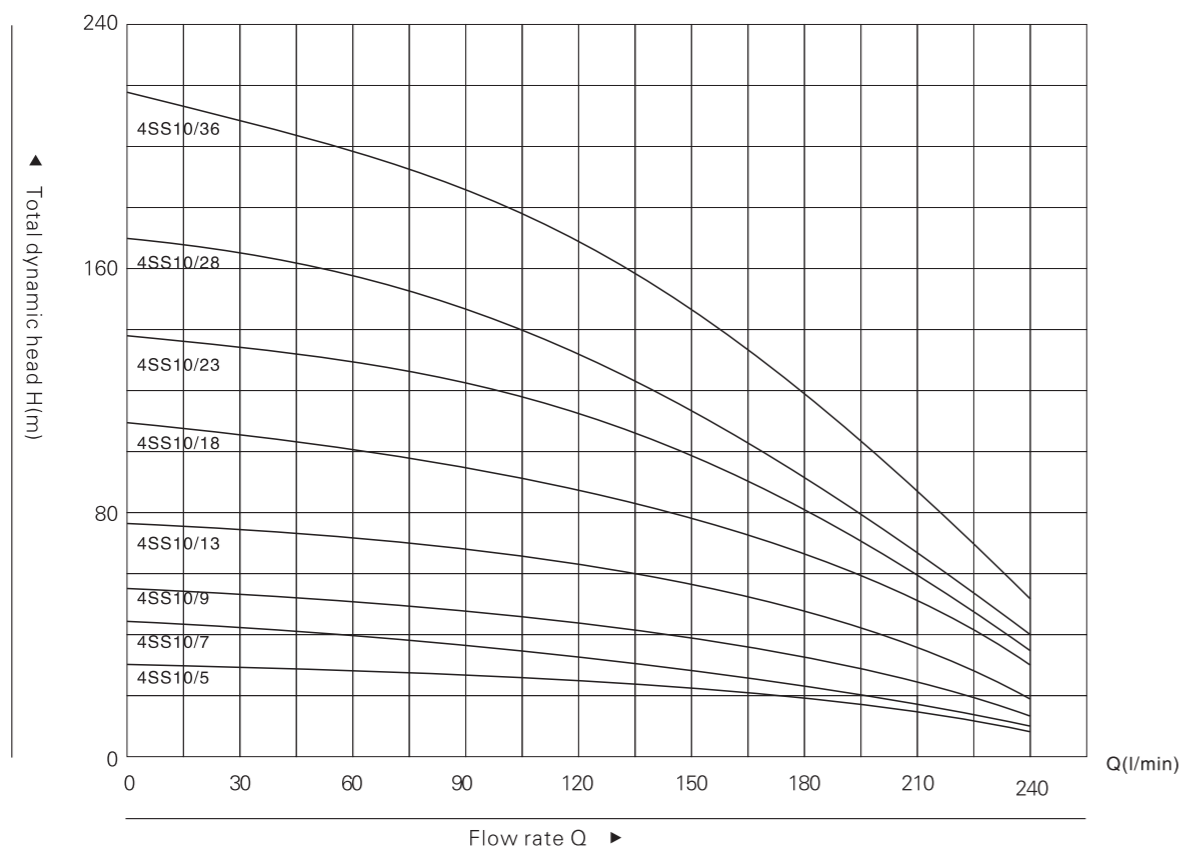
4SS 8 Strong Anti-sand Series



PERFORMANCE TABLE:

Type		Motor power		Delivery N ≈ 2850 r/min																				
1~220V-240V	3~380V-415V	KW	HP	Q m³/h	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	H(m)									
				l/min	0	20	40	60	80	100	120	140	160	180	29	28	27	26	25	23	20	17	13	3
4SSm8/6	4SS8/6	0.55	0.75		35	34	33	31	29	27	24	21	15	3	46	45	44	41	39	36	32	27	21	4
4SSm8/8	4SS8/8	1.1	1.5		64	62	60	57	54	50	45	38	28	6	87	84	82	78	74	68	61	51	39	8
4SSm8/11	4SS8/11	1.5	2.0		116	113	109	103	98	91	81	69	52	10	162	158	153	145	137	127	114	96	72	14
4SSm8/15	4SS8/15	2.2	3.0		209	203	196	186	177	163	146	123	93	18	255	248	240	227	216	200	179	151	114	22
---	4SS8/20	3.0	4.0																					
---	4SS8/28	4.0	5.5																					
---	4SS8/36	5.5	7.5																					
---	4SS8/44	7.5	10																					

4SS10 Strong Anti-sand Series

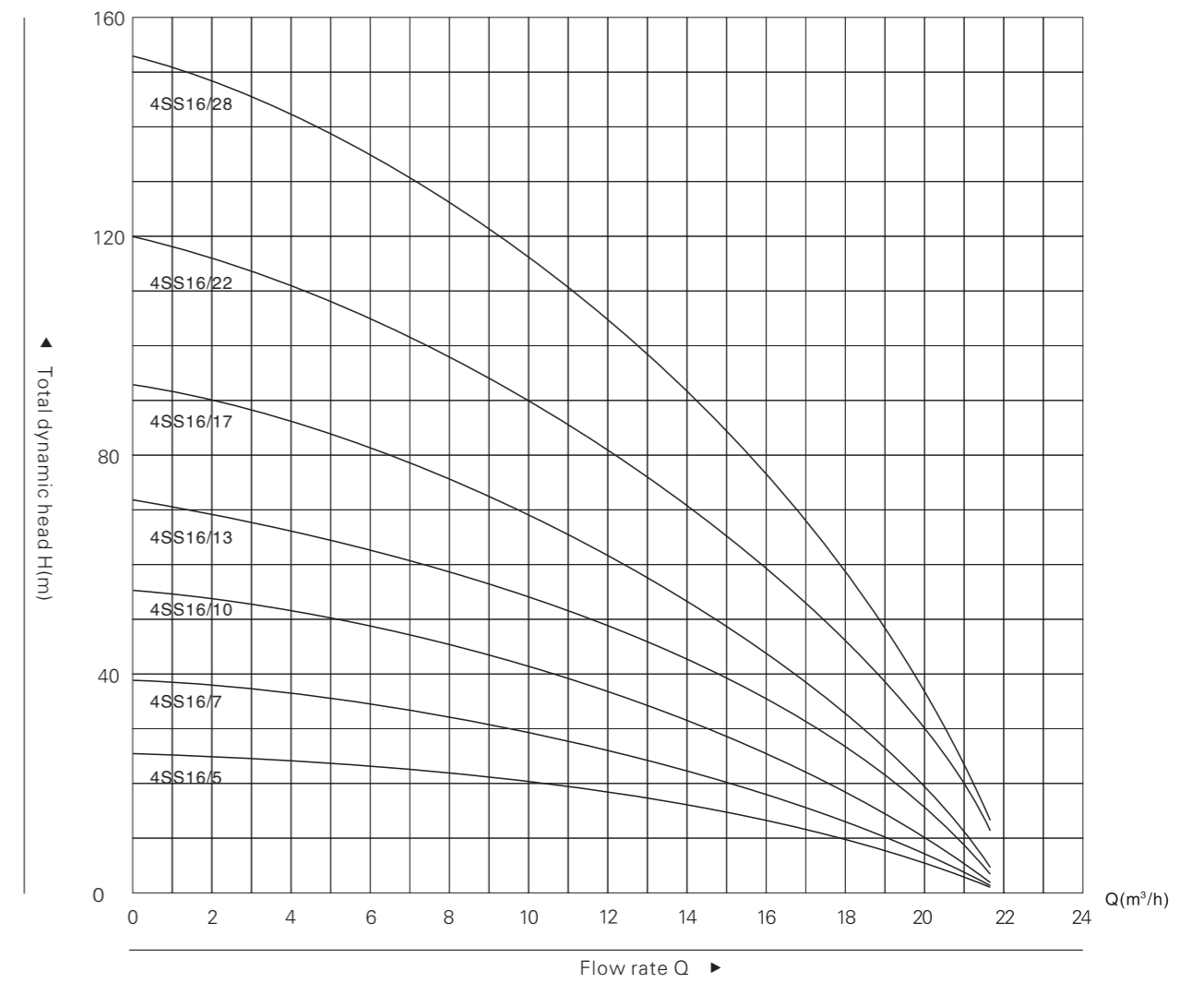


PERFORMANCE TABLE:

Type		Motor power		Delivery N≈2850 r/min									
1~ 220V-240V	3~ 380V-415V	KW	HP	Q m ³ /h l/min	0	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4
4SSm10/5	4SS10/5	0.75	1.0		H(m)	0	30	28	26	24	21	16	13
4SSm10/7	4SS10/7	1.1	1.5		42	41	39	37	34	29	22	17	10
4SSm10/9	4SS10/9	1.5	2.0		55	53	50	47	43	37	28	22	13
4SSm10/13	4SS10/13	2.2	3.0		79	77	72	68	63	54	41	37	19
----	4SS10/18	3.0	4.0		109	107	100	94	87	75	57	51	26
----	4SS10/23	4.0	5.5		139	136	127	121	111	95	72	59	33
----	4SS10/28	5.5	7.5		170	166	155	147	135	116	88	68	40
----	4SS10/36	7.5	10.0		218	213	199	189	174	149	113	82	52



4SS16 Strong Anti-sand Series



PERFORMANCE TABLE:

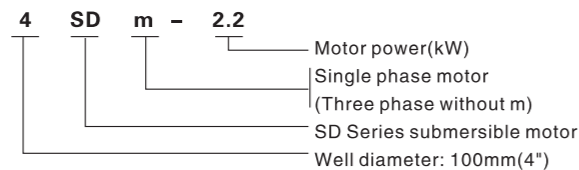
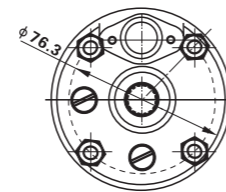
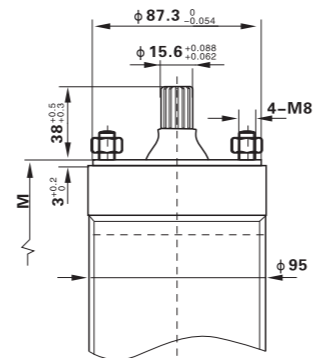
Type		Motor power		Delivery N≈2850 r/min									
1~ 220V-240V	3~ 380V-415V	KW	HP	Q m ³ /h l/min	0	6	8	10	12	14	16	18	21.6
4SSm16/5	4SS16/5	1.1	1.5		H(m)	0	100	130	165	200	230	265	300
4SSm16/7	4SS16/7	1.5	2.0		27	24	22	20	19	17	14	11	3
4SSm16/10	4SS16/10	2.2	3.0		38	34	31	27	26	24	20	16	4
----	4SS16/13	3.0	4.0		55	48	45	39	37	34	28	23	6
----	4SS16/17	4.0	5.5		71	63	58	51	48	44	36	29	7
----	4SS16/22	5.5	7.5		93	82	76	66	62	58	48	38	9
----	4SS16/28	7.5	10.0		120	106	99	86	80	75	62	50	11
----					153	135	125	109	101	95	78	63	14

4SD MOTOR (single phase)



Motor technical data:

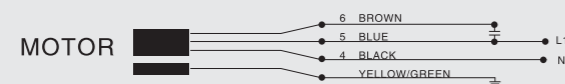
Single phase power: 0.37 to 2.2 kW
 Speed: 2850rpm
 Voltage: 150V-240V-/50Hz
 Insulation class: B
 Protection grade: IP 68
 Highest temperature of liquid: 35°C
 Flange and coupling according to NEMA standard
 Motor casing: stainless steel
 Maximum diameter: ϕ 95 mm
 With sandproof cover / pressure balance membrane/
 mechanical seal with high performance.



Single phase dimensions of motor unit:

Type	Motor power		Dimensions	
	kW	HP	Length mm	Weight kg
Single phase 220V~/50Hz				
4SDm-0.37	0.37	0.5	391	7.4
4SDm-0.55	0.55	0.75	421	8.7
4SDm-0.75	0.75	1.0	441	9.6
4SDm-1.1	1.1	1.5	496	11.2
4SDm-1.5	1.5	2.0	536	13.1
4SDm-2.2	2.2	3.0	621	17.0

Wiring diagram of motor



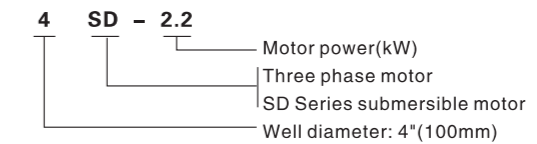
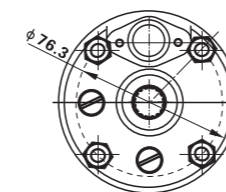
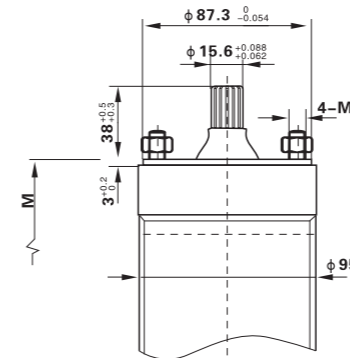
Each single phase three wires motor should equip a control box



4SD MOTOR (three phase)

Motor technical data:

Three phase power: 0.75 to 7.5 kW
 Speed: 2850rpm
 Voltage: 380V-415V-/50Hz
 Insulation class: B
 Protection grade: IP 68
 Highest temperature of liquid: 35°C
 Flange and coupling according to NEMA standard
 Motor casing: stainless steel
 Maximum diameter: ϕ 95 mm
 With sandproof cover / pressure balance membrane/
 mechanical seal with high performance.



Three phase dimensions of motor unit:

Type	Motor power		Dimensions	
	kW	HP	Length mm	Weight kg
Three phase 380V/50Hz				
4SD-0.75	0.75	1.0	441	9.5
4SD-1.1	1.1	1.5	496	11.0
4SD-1.5	1.5	2.0	536	12.9
4SD-2.2	2.2	3.0	571	14.6
4SD-3.0	3.0	4.0	646	17.8
4SD-4.0	4.0	5.5	721	21.5
4SD-5.5	5.5	7.5	796	26.4
4SD-7.5	7.5	10.0	871	30.4





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FROG PUMP INDUSTRY CO., LTD

<http://www.frogpump.com>

4QJ

Submersible Pump



4QJ2

Submersible Pump

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: +35°C.
Maximum sand content: 1%.
Maximum immersion: 120m.
Minimum well diameter: 4".

Motor and pump

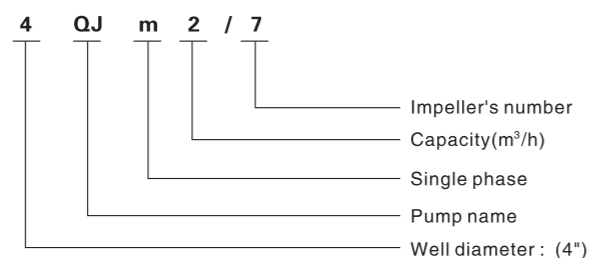
Rewindable motor
Single-phase: 150V-240V/50Hz
Equip with start control box or digital auto-control box
Pumps are designed by casing stressed
NEMA dimension standards
Curve tolerance according to ISO 9001

Internal diameter of outlet

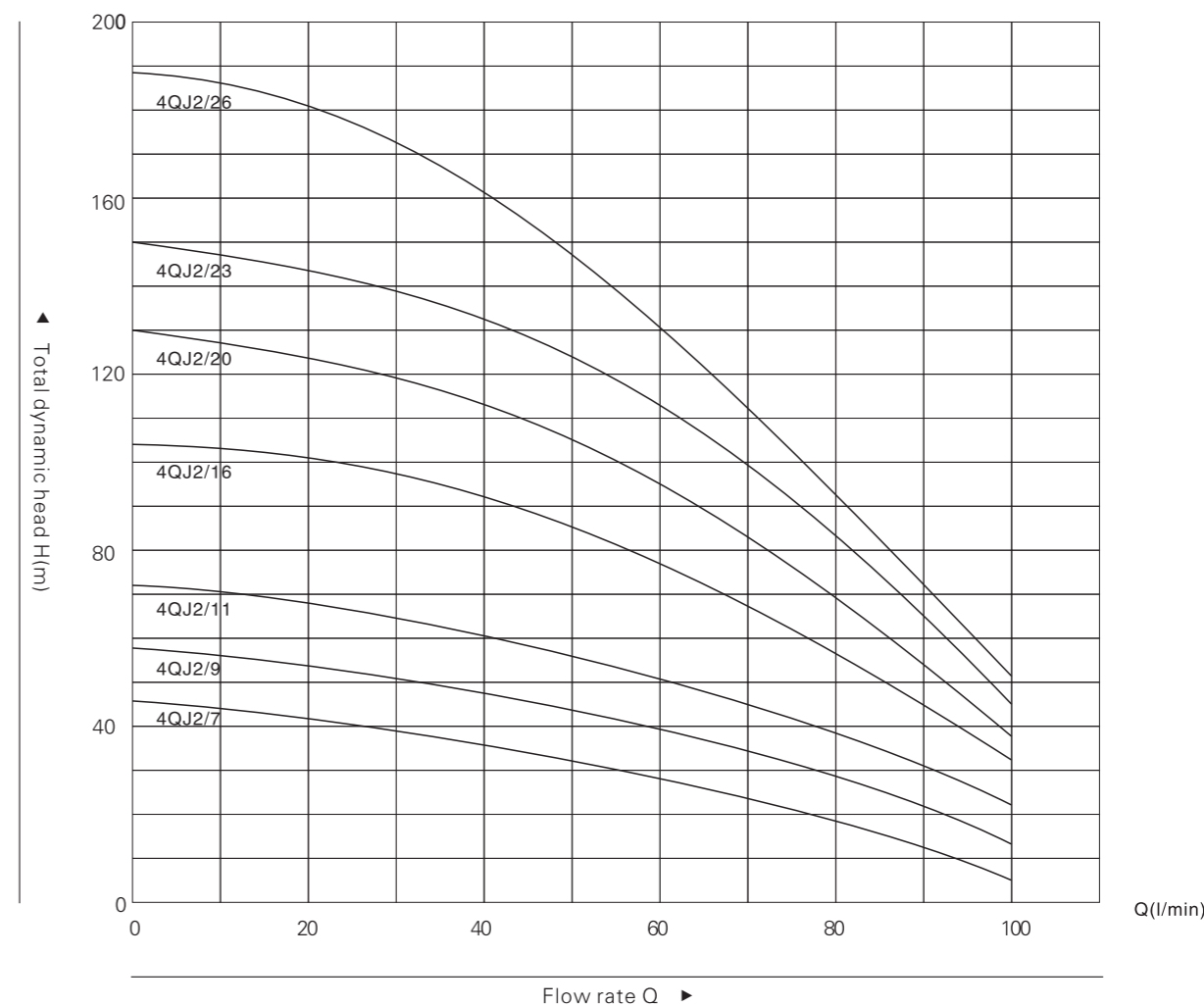
1.5", 2"

Warranty: 1 year

(According to our general sales conditions).



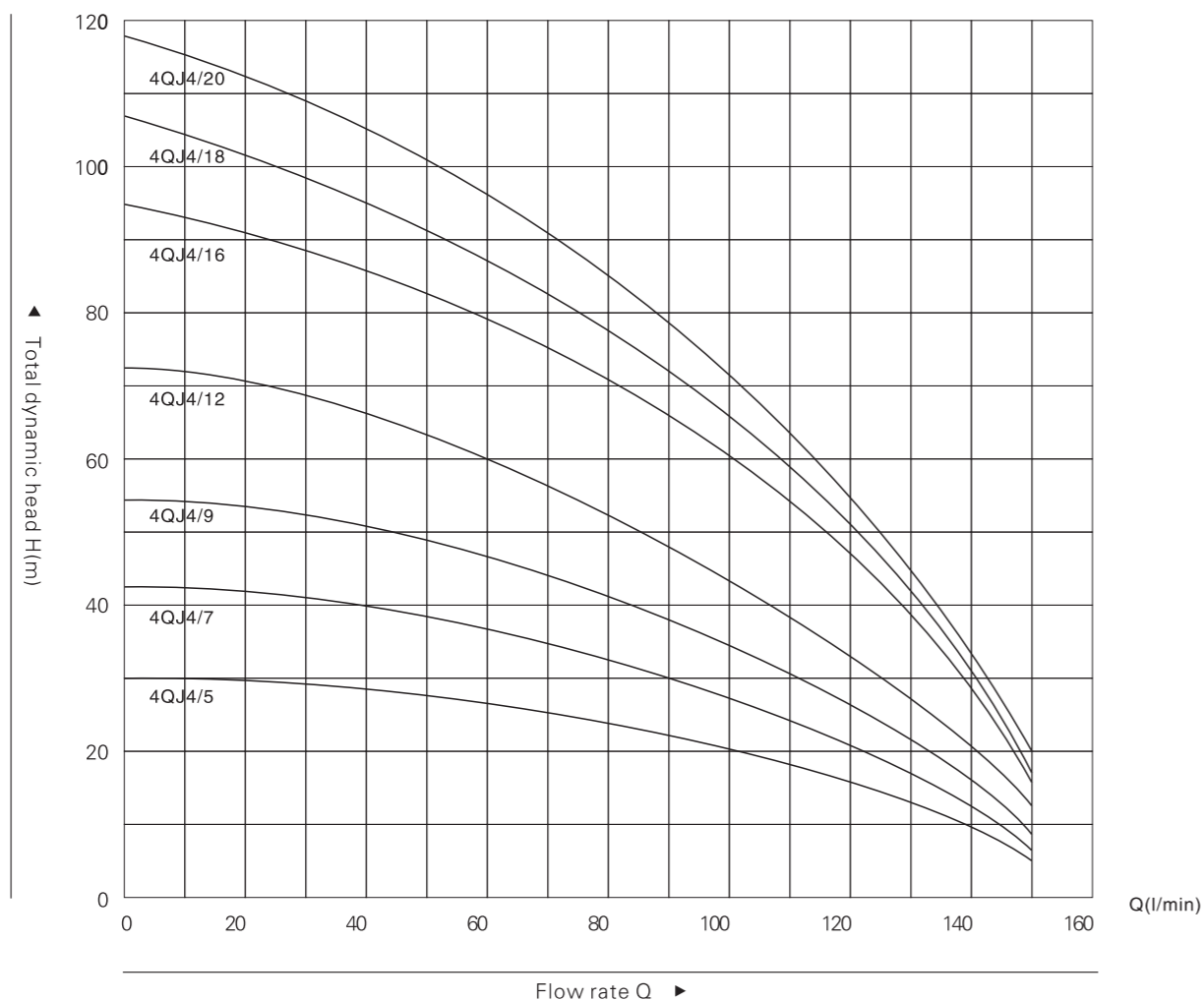
COMPONENTS	MATERIAL
Pump casing	AISI 304SS/201SS
Outlet	Cast-iron
Inlet	Cast-iron
Strainer	AISI 304SS
Diffuser	ABS
Impeller	ABS
Pump shaft	AISI 304SS/201SS
Shaft coupling	AISI 304SS/201SS
Motor casing	AISI 304SS/201SS
Mechanical seal	Graphite-ceramic/TC
Top chock	Cast-Cu/Cast-iron
Motor shaft	AISI 304SS
Bearing	NSK/C&U
Seal lubricant oil	10# White Oil



PERFORMANCE TABLE:

Type	Motor power KW HP	Delivery N≈2850 r/min											
		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
1~ 220V-240V	3~ 380V-415V		0	10	20	30	40	50	60	70	80	90	100
4QJm2/7	4QJ2/7	0.37 0.5	46	44	43	38	34	31	28	22	13	11	5
4QJm2/9	4QJ2/9	0.55 0.75	59	57	56	51	46	44	40	34	27	23	13
4QJm2/11	4QJ2/11	0.75 1.0	72	70	68	66	60	58	52	46	39	33	22
4QJm2/16	4QJ2/16	1.1 1.5	104	101	99	97	87	84	76	67	56	48	31
4QJm2/20	4QJ2/20	1.5 2.0	130	126	124	121	109	105	95	84	70	60	39
4QJm2/23	4QJ2/23	1.8 2.5	150	145	143	139	126	121	109	96	81	69	45
4QJm2/26	4QJ2/26	2.2 3.0	188	184	181	172	163	142	131	112	90	72	51

4QJ4 Submersible Pump

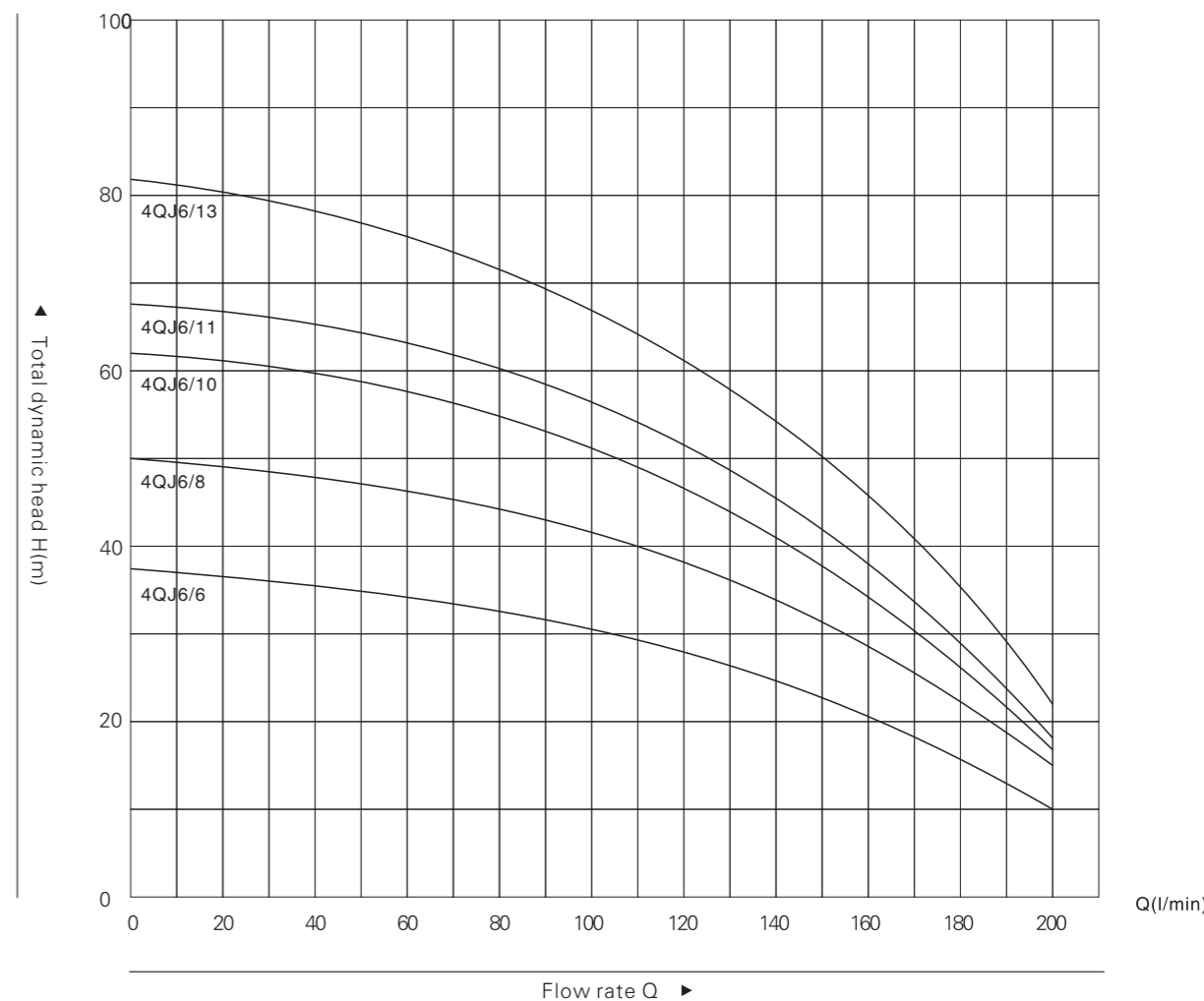


PERFORMANCE TABLE:

Type		Motor power		Delivery N≈2850 r/min																					
1~220V-240V	3~380V-415V	KW	HP	Q m³/h	0	0.6	1.2	2.4	3.0	4.2	4.8	6.0	7.2	8.4	9.0										
				l/min	0	10	20	40	50	70	80	100	120	140	150										
4QJm4/5	4QJ4/5	0.37	0.5	H(m)	30	28	27	26	26	25	21	17	13	9	5										
4QJm4/7	4QJ4/7	0.55	0.75		42	40	38	36	36	35	29	24	19	13	7										
4QJm4/9	4QJ4/9	0.75	1.0		54	51	49	46	46	45	38	31	24	16	9										
4QJm4/12	4QJ4/12	1.1	1.5		71	68	65	62	61	58	50	42	32	22	12										
4QJm4/16	4QJ4/16	1.5	2.0		95	90	87	82	82	75	67	55	43	29	16										
4QJm4/18	4QJ4/18	1.8	2.5		107	105	102	97	92	85	76	62	48	32	18										
4QJm4/20	4QJ4/20	2.2	3.0		119	113	108	103	102	95	84	69	53	36	20										



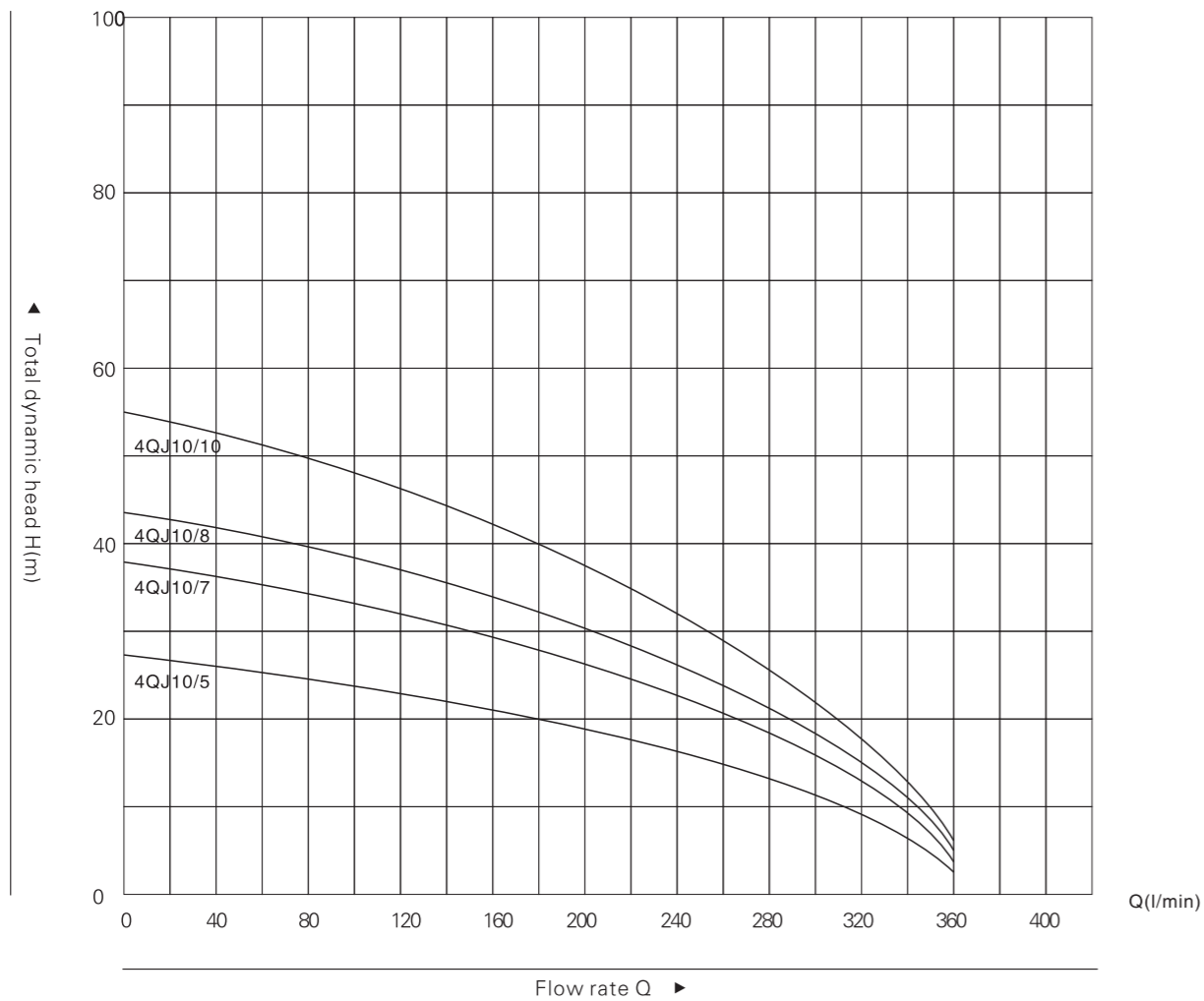
4QJ6 Submersible Pump



PERFORMANCE TABLE:

Type		Motor power		Delivery N≈2850 r/min																					
1~220V-240V	3~380V-415V	KW	HP	Q m³/h	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12										
				l/min	0	20	40	60	80	100	120	140	160	180	200										
4QJm6/6	4QJ6/6	0.75	1.0	H(m)	37	36	35	34	33	31	28	25	21	16	10										
4QJm6/8	4QJ6/8	1.1	1.5		50	49	48	46	44	41	37	33	28	21	14										
4QJm6/10	4QJ6/10	1.5	2.0		62	61	60	58	55	52	47	41	35	26	17										
4QJm6/11	4QJ6/11	1.8	2.5		68	67	66	63	61	57	51	45	38	29	19										
4QJm6/13	4QJ6/13	2.2	3.0		81	80	78	75	72	67	61	54	45	34	22										

4QJ10 Submersible Pump



PERFORMANCE TABLE:

Type		Motor power		Delivery N≈2850 r/min																		
1~220V-240V	3~380V-415V	KW	HP	Q m³/h l/min																		
4QJm10/5	4QJ10/5	1.1	1.5	0	6.0	8	10.8	12	13.8	16.2	18	21.6	0	100	133	180	200	230	270	300	360	
4QJm10/7	4QJ10/7	1.5	2.0	H(m)	27	24	22	20	19	17	14	11	3	38	34	31	27	26	24	20	16	4
4QJm10/8	4QJ10/8	1.8	2.5		44	38	36	31	29	27	22	18	5	55	48	45	39	37	34	28	23	6
4QJm10/10	4QJ10/10	2.2	3.0																			



4SP Stainless steel Submersible pump



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: +50°C.
Maximum sand content: 0.3% .
Maximum immersion : 120m.
Minimum well diameter : 4".

Motor and pump

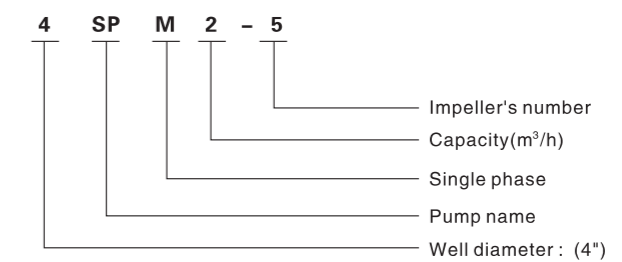
Rewindable motor
Full obturated screen motor
Three-phase: 380V-415V/50Hz
Single-phase: 220V-240V/50Hz
Equip with start-up control box.
NEMA dimension standards

Internal diameter of outlet

1.25" 1.5" 2"

Warranty: 1 year

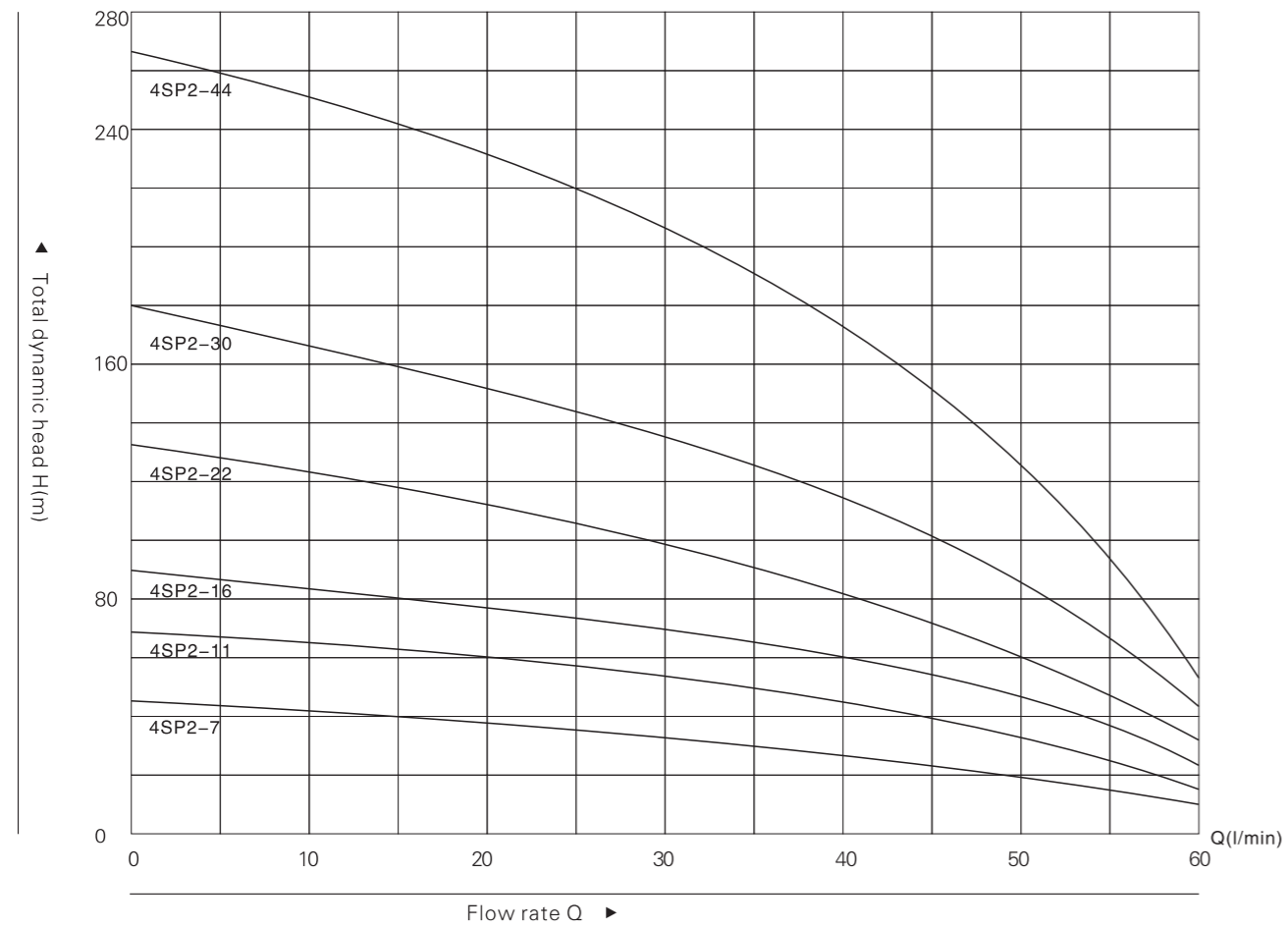
(According to our general sales conditions).



COMPONENTS	MATERIAL
Pump casing	AISI 304SS
Outlet	AISI 304SS
Inlet	AISI 304SS
Strainer	AISI 304SS
Diffuser	AISI 304SS
Impeller	AISI 304SS
Pump shaft	AISI 304SS
Shaft coupling	AISI 304SS
Motor casing	AISI 304SS/201SS
Mechanical seal	Graphite-ceramic/TC
Top chock	Cast-Cu/Cast-iron
Motor shaft	AISI 304SS
Bearing	NSK/C&U
Seal lubricant oil	10# White Oil

4SP2

Stainless steel
Submersible pump



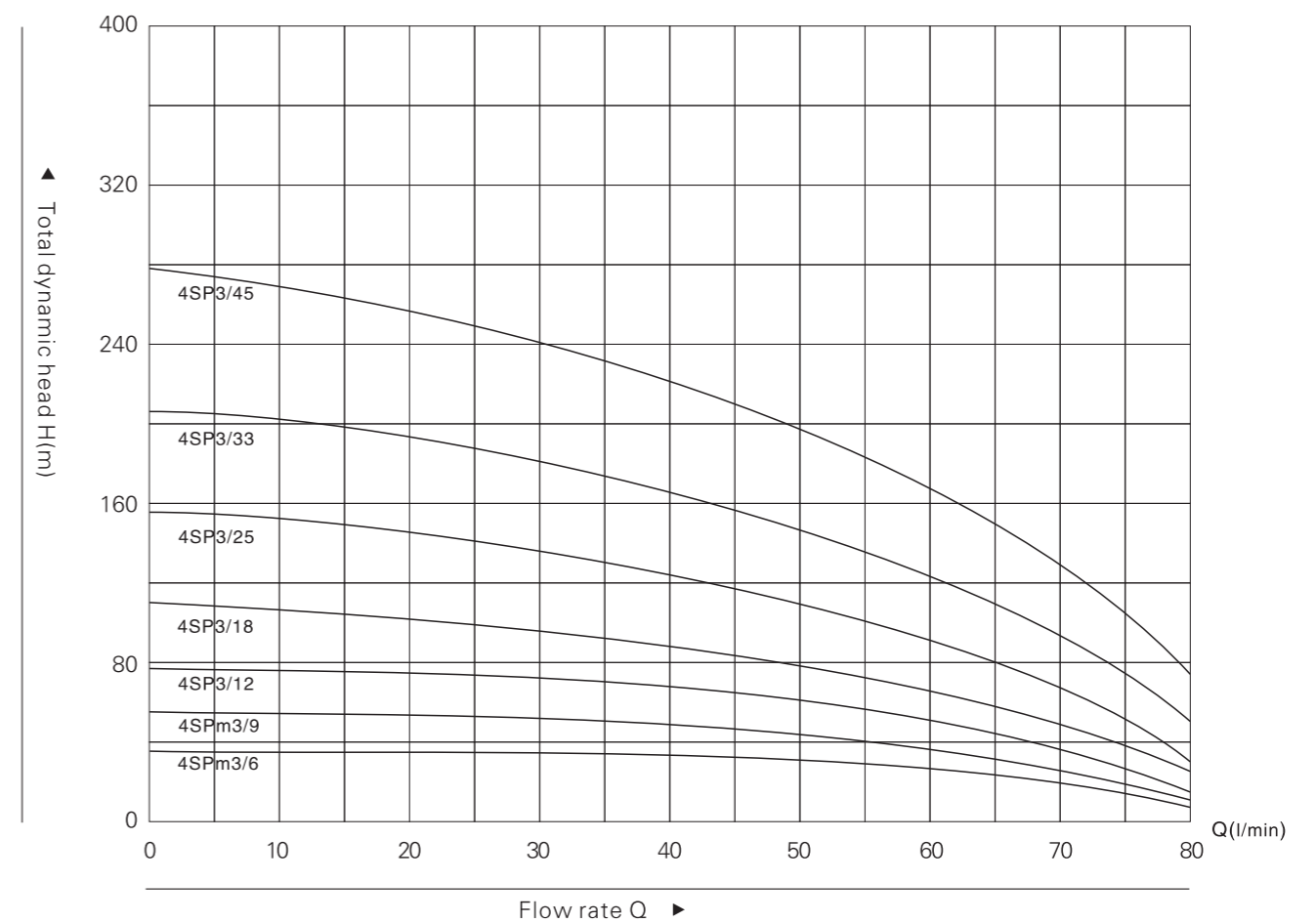
PERFORMANCE TABLE:

Type		Motor power		Delivery N ≈ 2850 r/min													
1~220V-240V	3~380V-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	3.3	3.6
4SPm2/7	4SP2/7	0.37	0.5	H(m)	42	41	38	36	35	33	32	30	27	23	21	15	10
4SPm2/11	4SP2/11	0.55	0.75	H(m)	66	65	59	57	55	52	51	47	42	36	34	24	15
4SPm2/16	4SP2/16	0.75	1	H(m)	96	94	86	83	80	76	74	69	61	53	50	35	22
4SPm2/22	4SP2/22	1.1	1.5	H(m)	132	130	121	117	110	105	101	98	84	75	70	48	31
4SPm2/30	4SP2/30	1.5	2	H(m)	180	177	165	159	150	143	138	134	114	102	96	66	42
4SPm2/44	4SP2/44	2.2	3	H(m)	264	260	242	233	220	209	202	196	167	150	141	97	62



4SP3

Stainless steel
Submersible pump

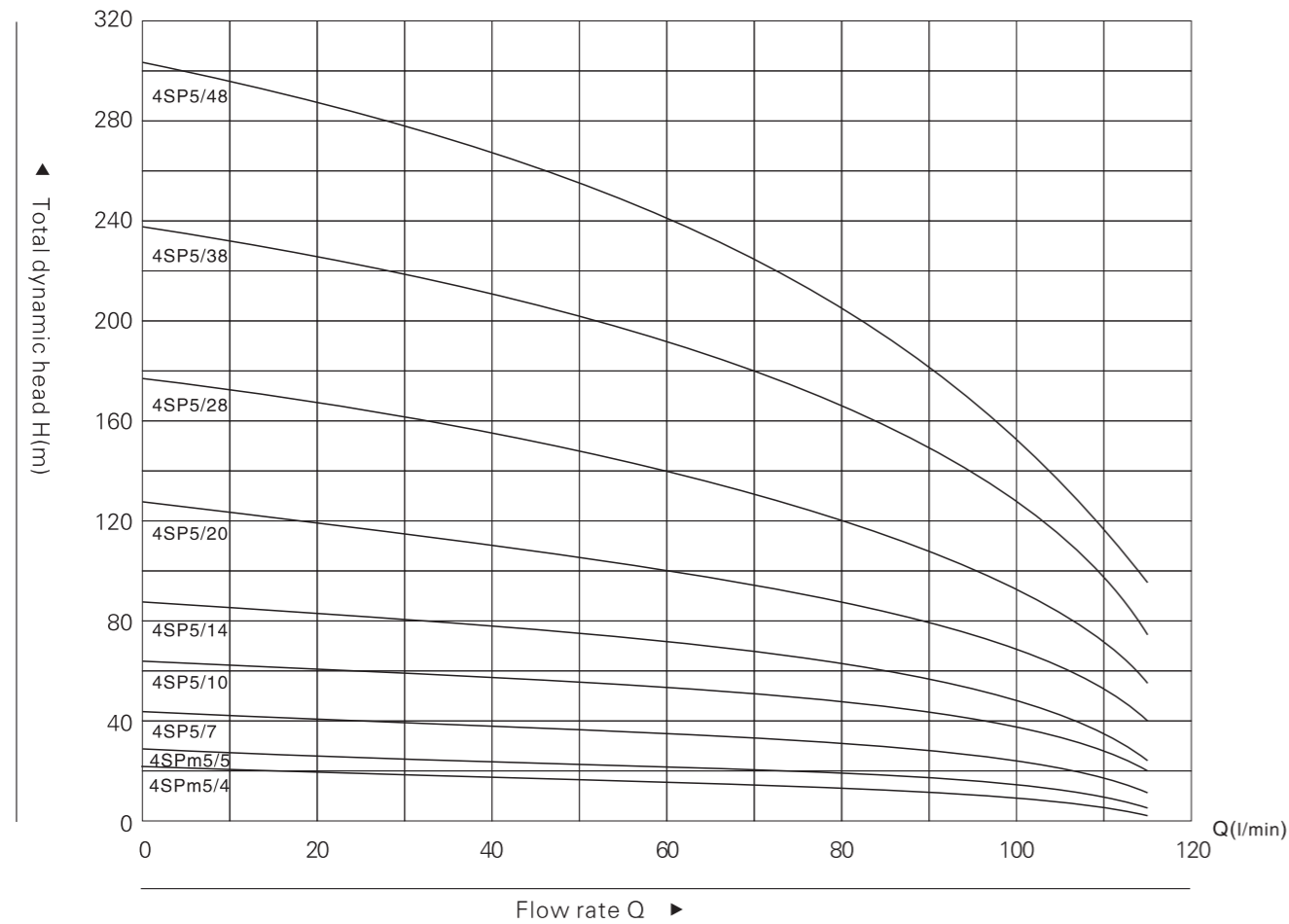


PERFORMANCE TABLE:

Type		Motor power		Delivery N ≈ 2850 r/min												
1~220V-240V	3~380V-415V	KW	HP	Q m³/h	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8			
4SPm3/6	-----	0.37	0.5	H(m)	37	35	33	31	29	26	22	17	9			
4SPm3/9	-----	0.55	0.75	H(m)	56	53	50	47	44	40	33	25	14			
4SPm3/12	4SP3/12	0.75	1.0	H(m)	74	70	66	62	59	53	45	33	18			
4SPm3/18	4SP3/18	1.1	1.5	H(m)	112	106	99	93	88	79	67	50	28			
4SPm3/25	4SP3/25	1.5	2.0	H(m)	155	147	138	130	123	110	93	70	39			
4SPm3/33	4SP3/33	2.2	3.0	H(m)	205	194	182	171	162	145	122	92	51			
-----	4SP3/45	3.0	4.0	H(m)	279	264	248	234	221	198	167	125	69			

4SP 5

Stainless steel
Submersible pump



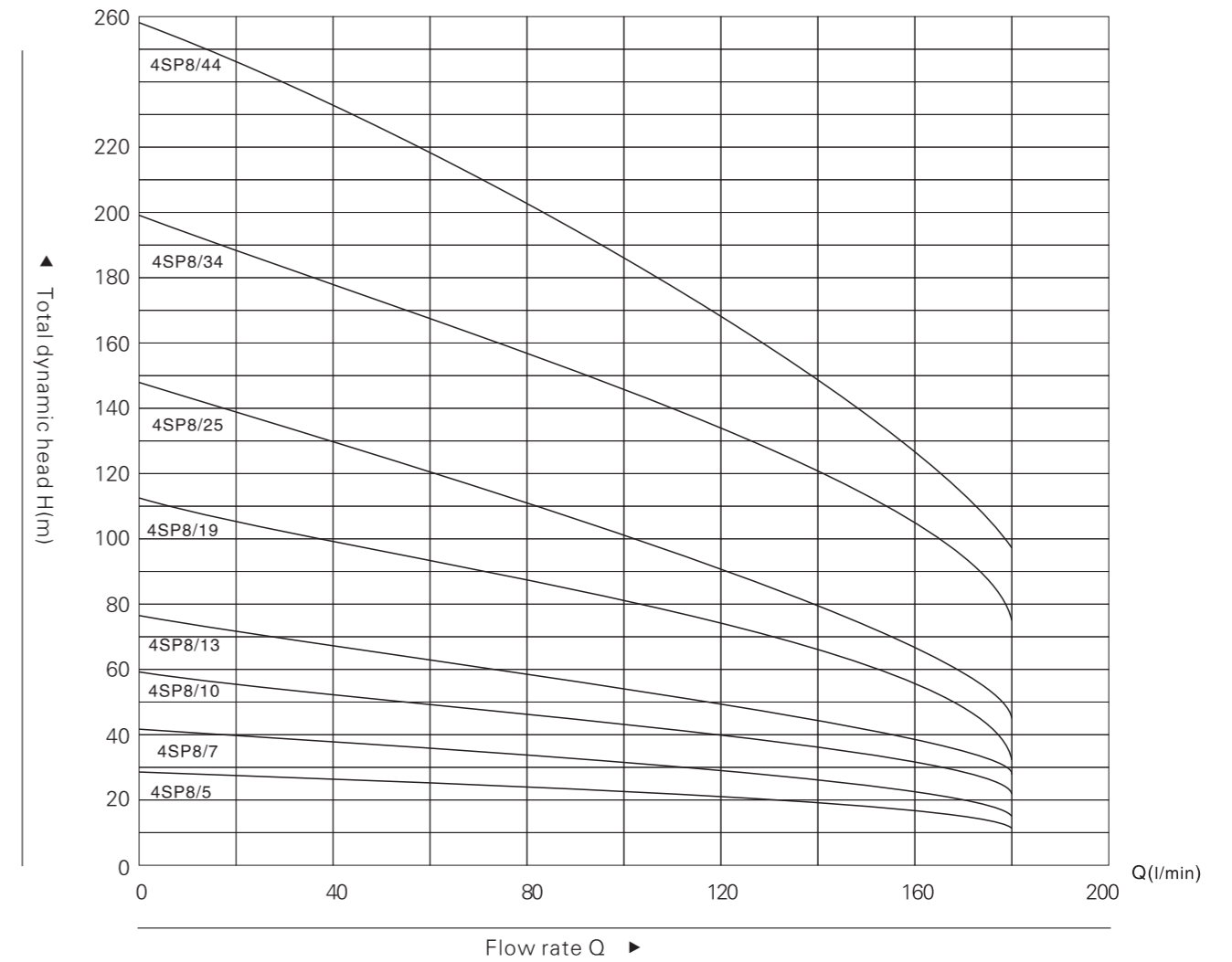
PERFORMANCE TABLE:

Type		Motor power		Delivery N≈2850 r/min																		
1~220V-240V	3~380V-415V	KW	HP	Q	0	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2							
				l/min	0	30	40	50	60	70	80	90	100	110	120							
4SPm5/4	-----	0.37	0.5	H(m)	25	23	22	21	20	19	18	17	14	11	8							
4SPm5/5	-----	0.55	0.75		32	29	28	27	25	24	23	22	18	14	10							
4SPm5/7	4SP5/7	0.75	1.0		44	41	39	37	35	34	32	30	25	20	14							
4SPm5/10	4SP5/10	1.1	1.5		63	58	56	53	50	48	46	44	35	28	20							
4SPm5/14	4SP5/14	1.5	2.0		88	81	78	74	70	67	64	61	49	39	28							
4SPm5/20	4SP5/20	2.2	3.0		126	116	112	106	100	96	91	87	70	56	40							
-----	4SP5/28	3.0	4.0		176	162	157	148	140	134	127	122	98	78	56							
-----	4SP5/38	4.0	5.5		239	220	213	201	190	182	173	165	133	106	76							
-----	4SP5/48	5.5	7.5		302	278	269	254	240	230	218	209	168	134	96							



4SP 8

Stainless steel
Submersible pump



PERFORMANCE TABLE:

Type		Motor power		Delivery N≈2850 r/min																
1~220V-240V	3~380V-415V	KW	HP	Q	0	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8							
				l/min	0	70	80	90	100	120	140	160	180							
4SPm8/5	4SP8/5	0.75	1.0	H(m)	29	25	23	22	21	20	18	15	11							
4SPm8/7	4SP8/7	1.1	1.5		41	35	32	31	30	28	25	21	15							
4SPm8/10	4SP8/10	1.5	2.0		59	51	46	44	42	40	36	30	22							
4SPm8/13	4SP8/13	2.2	3.0		76	66	60	57	55	52	47	39	29							
-----	4SP8/19	3.0	4.0		111	96	87	84	81	76	68	57	42							
-----	4SP8/25	4.0	5.5		147	126	115	110	106	100	90	75	55							
-----	4SP8/34	5.5	7.5		199	172	156	150	144	136	122	102	75							
-----	4SP8/44	7.5	10		258	232	220	205	187	166	148	122	97							

5QJ Strong Anti-sand Series



5QJ8 Strong Anti-sand Series

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: +35°C.
Maximum sand content: 1%.
Maximum immersion: 120m.
Minimum well diameter: 5".

Motor and pump

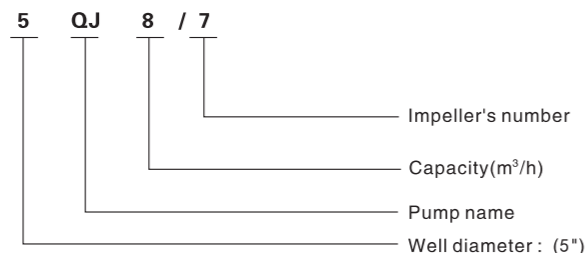
Rewindable motor
Three-phase: 350V-415V/50Hz
Equip with start control box or digital auto-control box
Pumps are designed by casing stressed
Curve tolerance according to ISO 9001

Internal diameter of outlet

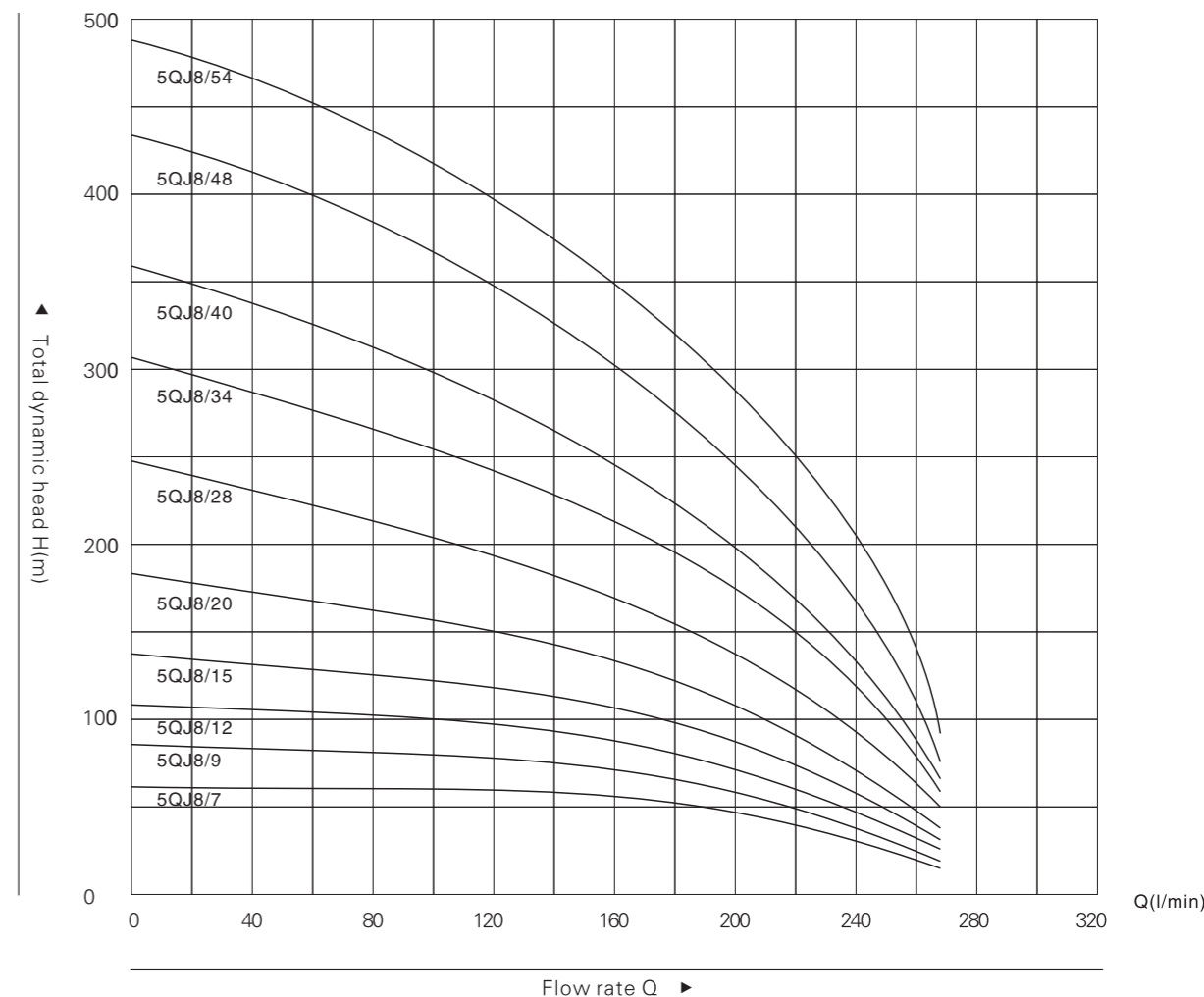
2"

Warranty: 1 year

(According to our general sales conditions).



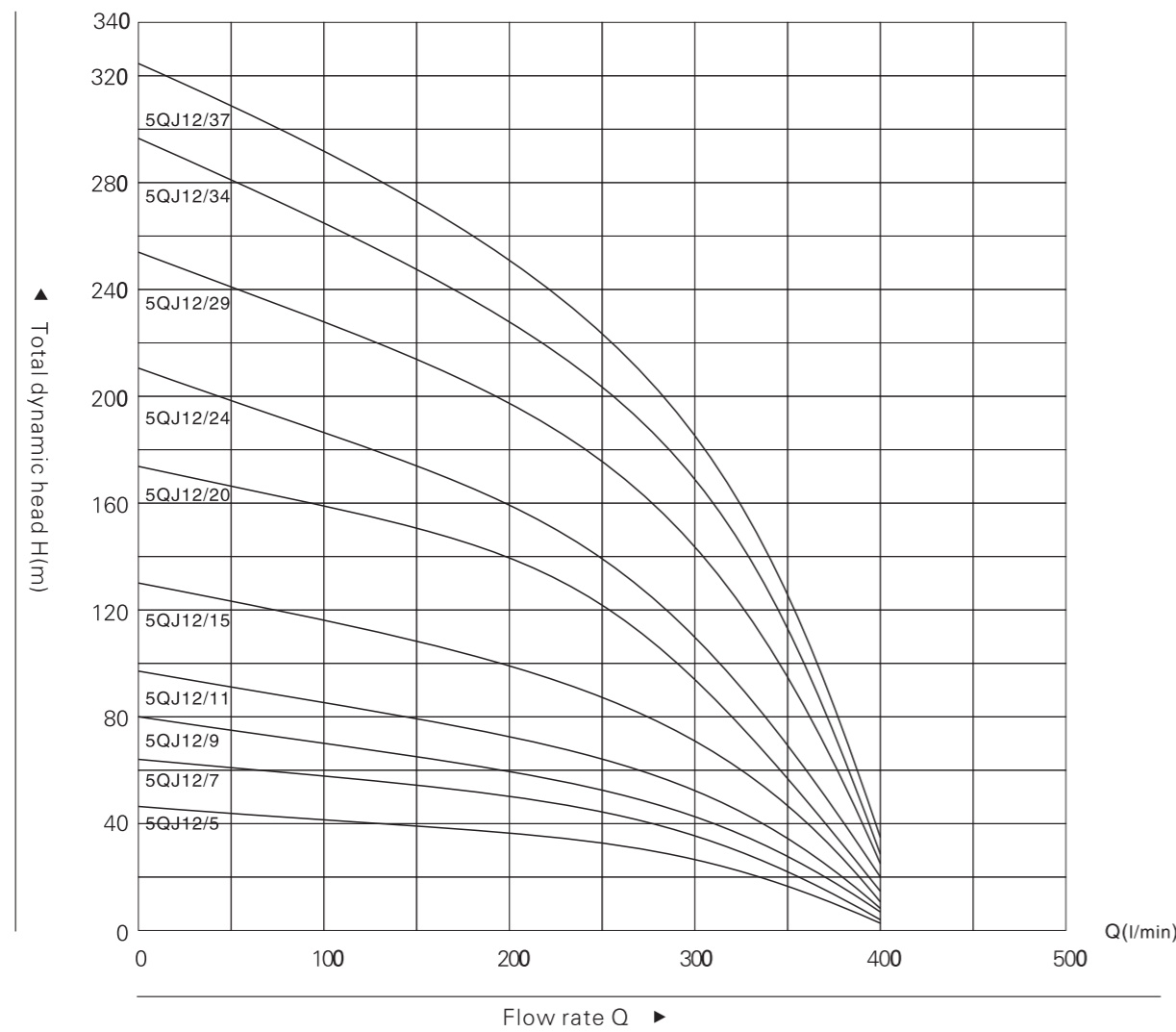
COMPONENTS	MATERIAL
Pump casing	AISI 304SS/201SS
Outlet	Cast-iron
Inlet	Cast-iron
Strainer	AISI 304SS
Diffuser	PC
Impeller	POM
Pump shaft	AISI 304SS/201SS
Shaft coupling	AISI 304SS/201SS
Motor casing	AISI 304SS/201SS
Mechanical seal	Graphite-ceramic/TC
Top chock	Cast-Cu/Cast-iron
Motor shaft	AISI 304SS
Bearing	NSK/C&U
Seal lubricant oil	10# White Oil



PERFORMANCE TABLE:

Type	Motor power		Delivery N ≈ 2850 r/min						
	KW	HP	Q - m³/h						
3-380V-415V			0	3	6	9	12	15	16
			0	50	100	150	200	250	267
5QJ8/7	1.5	2.0	62	59	54	47	34	22	13
5QJ8/9	2.2	3.0	80	76	70	60	44	28	16
5QJ8/12	3.0	4.0	107	101	93	80	58	37	22
5QJ8/15	4.0	5.5	134	127	116	101	73	47	27
5QJ8/20	5.5	7.5	178	169	155	134	97	62	36
5QJ8/28	7.5	10	249	237	216	188	136	87	50
5QJ8/34	9.2	12.5	303	287	263	228	165	105	61
5QJ8/40	11	15	356	338	309	268	194	124	72
5QJ8/48	13	18	428	406	371	322	233	149	86
5QJ8/54	15	20	481	456	417	362	262	167	97

5QJ12 Strong Anti-sand Series



PERFORMANCE TABLE:

Type	Motor power		Delivery N ≈ 2850 r/min										
	KW	HP	Q m³/h l/min	0	3	6	9	12	15	18	21	24	
3-380V-415V				0	50	100	150	200	250	300	350	400	
5QJ12/5	1.5	2.0	H(m)	44	41	39	36	33	29	22	16	4	
5QJ12/7	2.2	3.0		62	57	55	50	47	41	31	24	5	
5QJ12/9	3.0	4.0		80	74	70	65	60	55	41	32	9	
5QJ12/11	4.0	5.5		96	87	86	79	73	65	48	35	7	
5QJ12/15	5.5	7.5		130	121	117	108	100	87	64	50	11	
5QJ12/20	7.5	10		174	162	156	144	134	121	90	70	16	
5QJ12/24	9.2	12.5		210	195	187	173	160	145	105	83	20	
5QJ12/29	11	15		253	236	226	209	194	171	126	90	24	
5QJ12/34	13	18		297	276	265	245	227	205	149	115	28	
5QJ12/37	15	20		322	301	289	266	247	224	168	130	30	



5SS Stainless steel Submersible pump



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: +35°C.
Maximum sand content: 1% .
Maximum immersion : 120m .
Minimum well diameter : 5".

Motor and pump

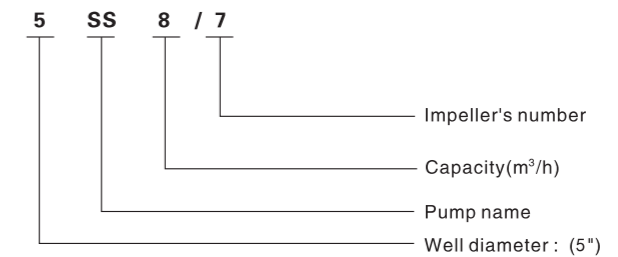
Rewindable motor
Three-phase: 350V-415V/50Hz
Equip with start control box or digital auto-control box
Pumps are designed by casing stressed
NEMA dimension standards
Curve tolerance according to ISO 9001

Internal diameter of outlet

2"

Warranty: 1 year

(According to our general sales conditions).



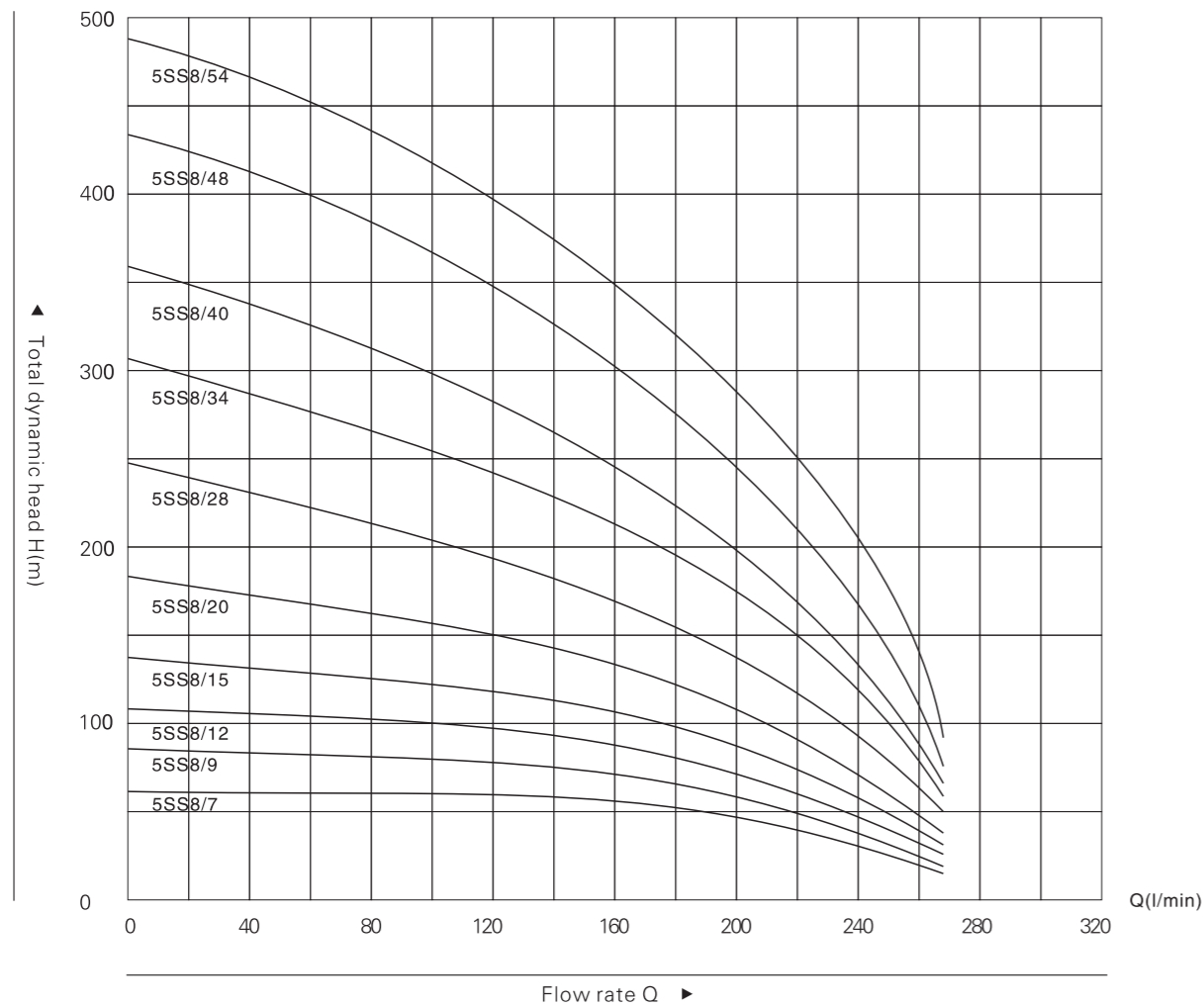
COMPONENTS	MATERIAL
Pump casing	AISI 304SS/201SS
Outlet	AISI 304SS
Inlet	AISI 304SS
Strainer	AISI 304SS
Diffuser	PC
Impeller	POM
Pump shaft	AISI 304SS/201SS
Shaft coupling	AISI 304SS/201SS
Motor casing	AISI 304SS/201SS
Mechanical seal	Graphite-ceramic/TC
Top chock	Cast-Cu/Cast-iron
Motor shaft	AISI 304SS
Bearing	NSK/C&U
Seal lubricant oil	10# White Oil

5SS 8

Stainless steel
Submersible pump



SINCE 1988
FROG PUMP
CHINA'S NO.1 BRAND OF DEEP WELL PUMPS



PERFORMANCE TABLE:

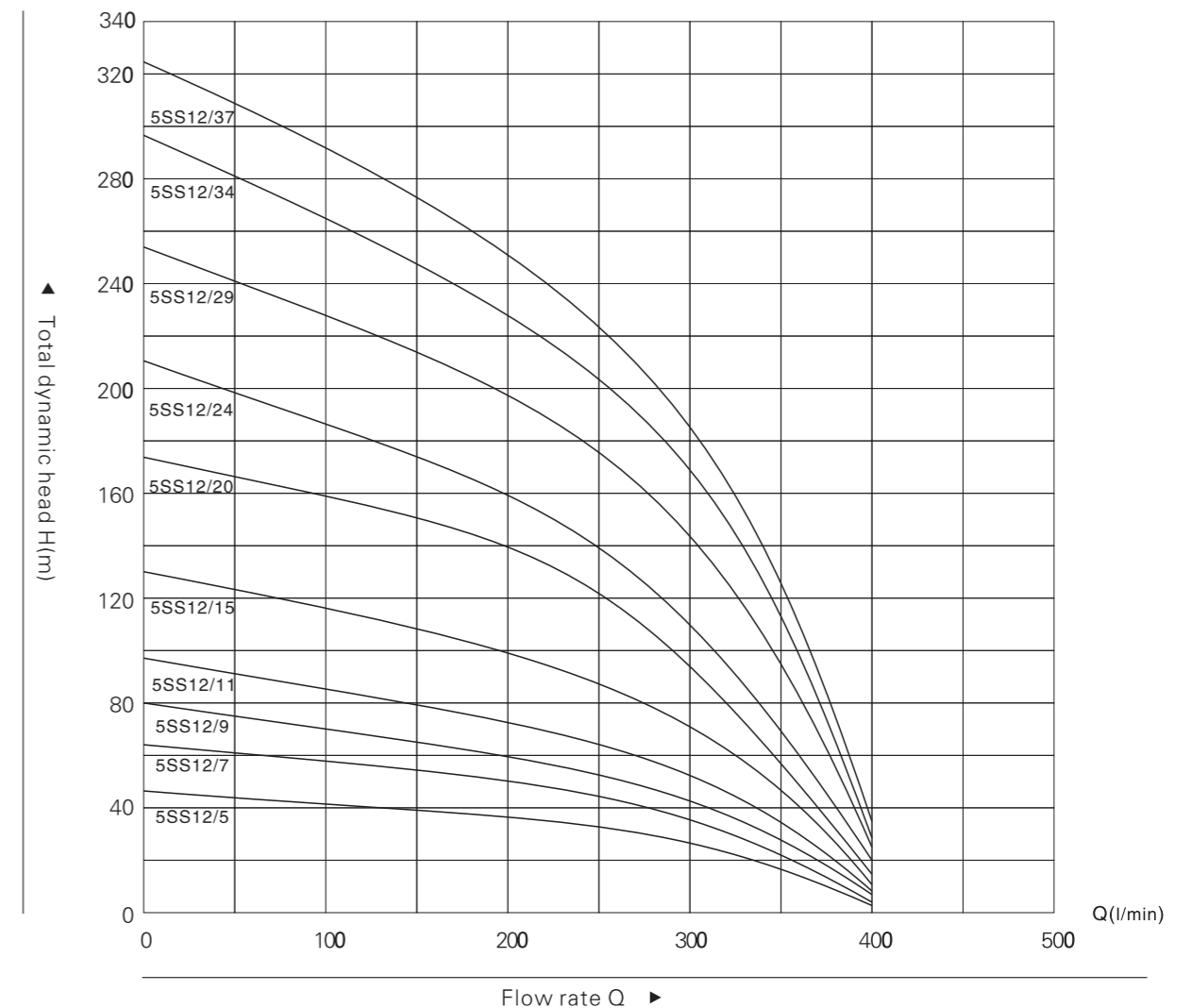
Type	Motor power		Q m ³ /h l/min	Delivery N≈2850 r/min						
	KW	HP		0	3	6	9	12	15	16
3~380V-415V				0	50	100	150	200	250	267
5SS8/7	1.5	2.0		62	59	54	47	34	22	13
5SS8/9	2.2	3.0		80	76	70	60	44	28	16
5SS8/12	3.0	4.0		107	101	93	80	58	37	22
5SS8/15	4.0	5.5		134	127	116	101	73	47	27
5SS8/20	5.5	7.5		178	169	155	134	97	62	36
5SS8/28	7.5	10		249	237	216	188	136	87	50
5SS8/34	9.2	12.5		303	287	263	228	165	105	61
5SS8/40	11	15		356	338	309	268	194	124	72
5SS8/48	13	18		428	406	371	322	233	149	86
5SS8/54	15	20		481	456	417	362	262	167	97



SINCE 1988
FROG PUMP
CHINA'S NO.1 BRAND OF DEEP WELL PUMPS

5SS 12

Stainless steel
Submersible pump



PERFORMANCE TABLE:

Type	Motor power		Q m ³ /h l/min	Delivery N≈2850 r/min								
	KW	HP		0	3	6	9	12	15	18	21	24
3~380V-415V				0	50	100	150	200	250	300	350	400
5SS12/5	1.5	2.0		44	41	39	36	33	29	22	16	4
5SS12/7	2.2	3.0		62	57	55	50	47	41	31	24	5
5SS12/9	3.0	4.0		80	74	70	65	60	55	41	32	9
5SS12/11	4.0	5.5		96	87	86	79	73	65	48	35	7
5SS12/15	5.5	7.5		130	121	117	108	100	87	64	50	11
5SS12/20	7.5	10		174	162	156	144	134	121	90	70	16
5SS12/24	9.2	12.5		210	195	187	173	160	145	105	83	20
5SS12/29	11	15		253	236	226	209	194	171	126	90	24
5SS12/34	13	18		297	276	265	245	227	205	149	115	28
5SS12/37	15	20		322	301	289	266	247	224	168	130	30

150QJ Stainless steel Submersible pump



150QJ5 Stainless steel Submersible pump

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: +35°C.
Maximum sand content: 1%.
Maximum immersion: 120m.
Minimum well diameter: 6".

Motor and pump

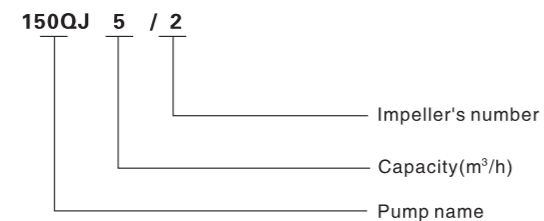
Rewindable motor
Three-phase: 350V-415V/50Hz
Single-phase: 150V-240V/50Hz
Equip with start control box or digital auto-control box
Pumps are designed by casing stressed
NEMA dimension standards
Curve tolerance according to ISO 9001

Internal diameter of outlet

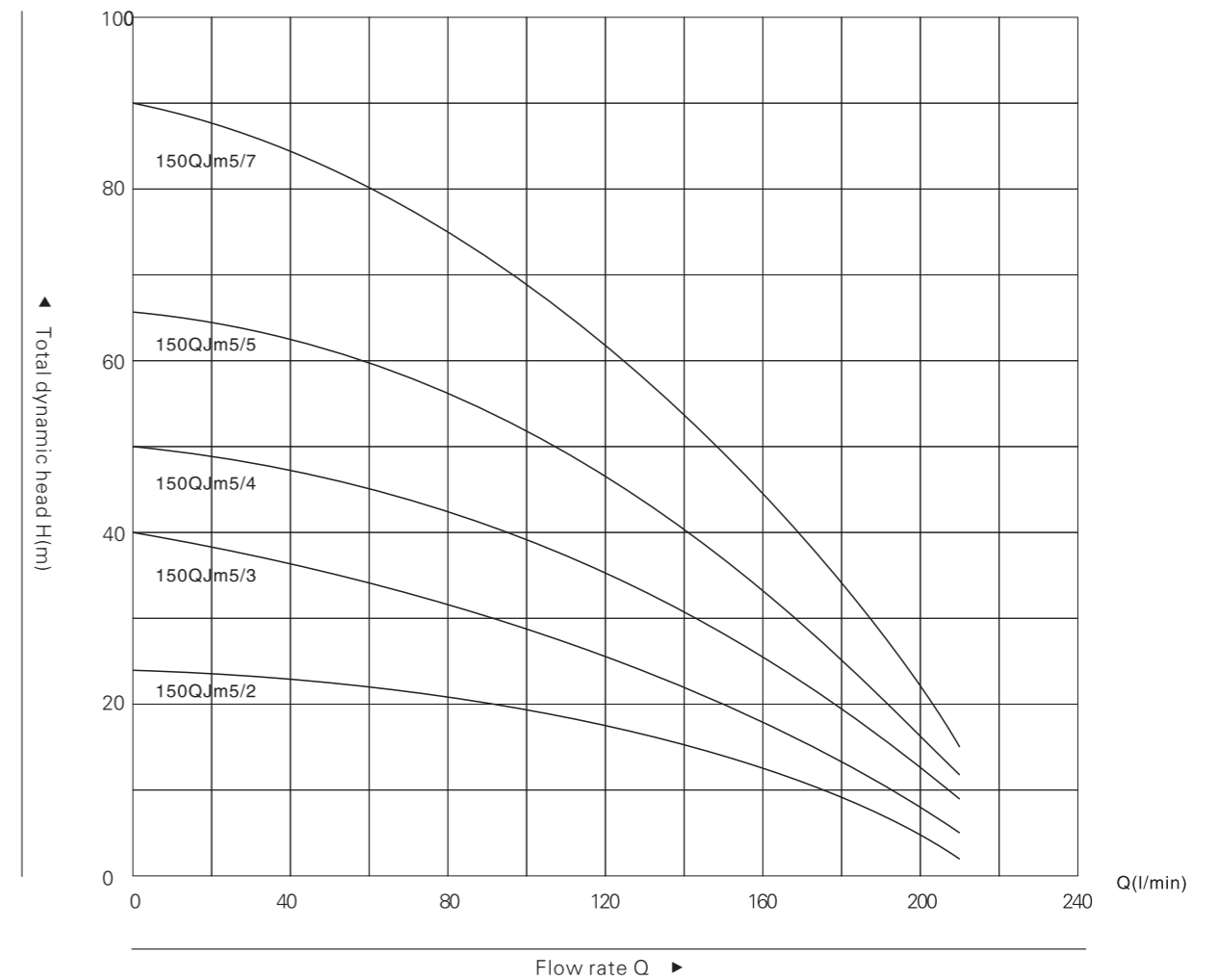
1.5", 2", 3"

Warranty: 1 year

(According to our general sales conditions).



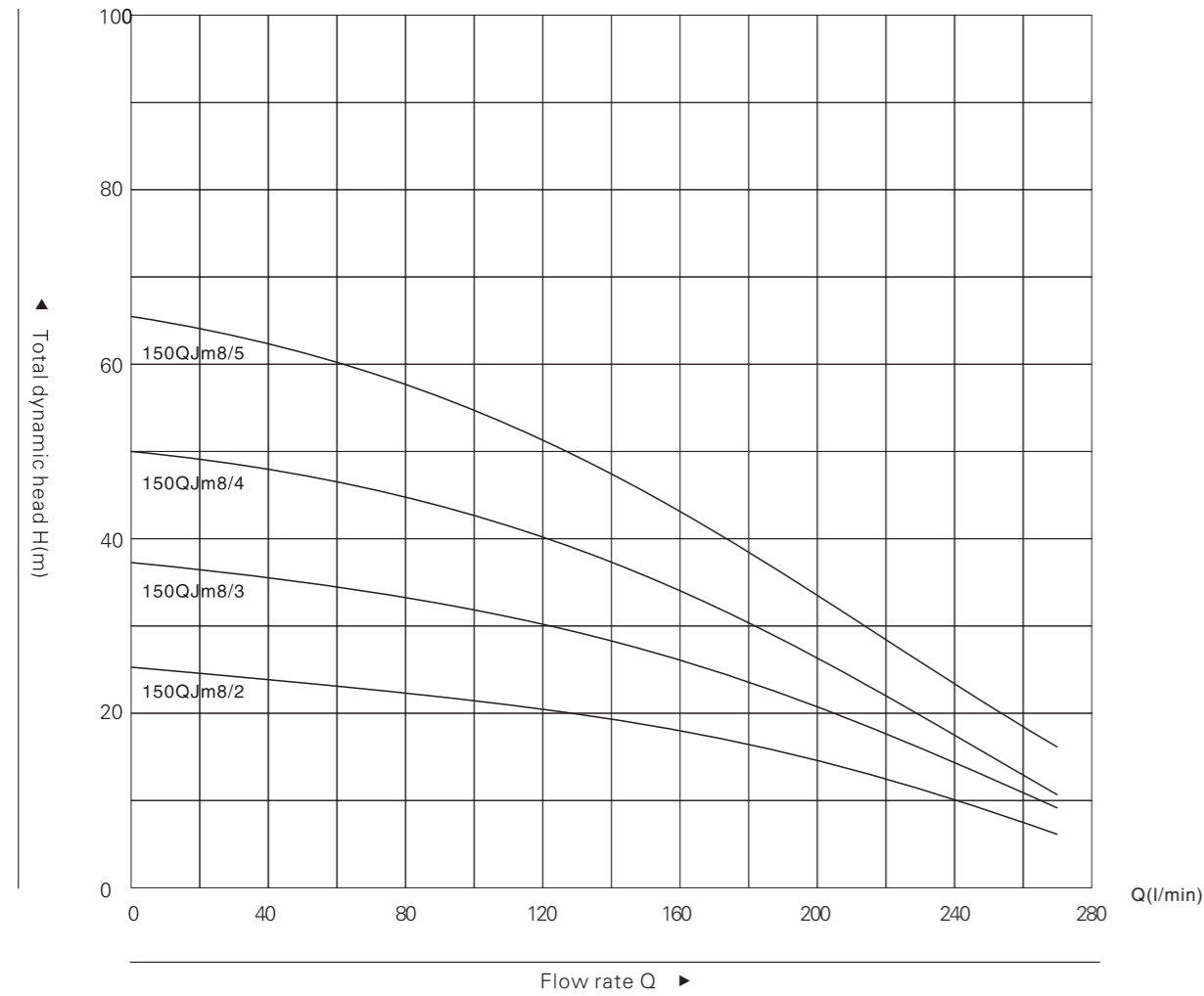
COMPONENTS	MATERIAL
Pump casing	AISI 304SS/201SS
Outlet	Cast-iron
Inlet	Cast-iron
Strainer	AISI 304SS
Diffuser	PC
Impeller	POM
Pump shaft	AISI 304SS/201SS
Shaft coupling	AISI 304SS/201SS
Motor casing	AISI 304SS/201SS
Mechanical seal	Graphite-ceramic/TC
Top chock	Cast-Cu/Cast-iron
Motor shaft	AISI 304SS
Bearing	NSK/C&U
Seal lubricant oil	10# White Oil



PERFORMANCE TABLE:

Type	Motor power		Delivery N≈2850 r/min							
	1~220V-240V	3~380V-415V	Q m³/h / l/min							
150QJm5/2	0.55	0.75	0	1.8	3.6	5.4	7.2	9.0	10.8	12.6
150QJm5/3	0.75	1.0	0	30	60	90	120	150	180	210
150QJm5/4	1.1	1.5	25	24	22	20	17	13	7	4
150QJm5/5	1.5	2.0	40	36	34	30	25	18	10	5
150QJm5/7	2.2	3.0	50	49	46	41	35	26	16	9
			65	63	60	53	45	35	22	13
			90	86	80	72	61	46	27	15

150QJ 8 Submersible pump

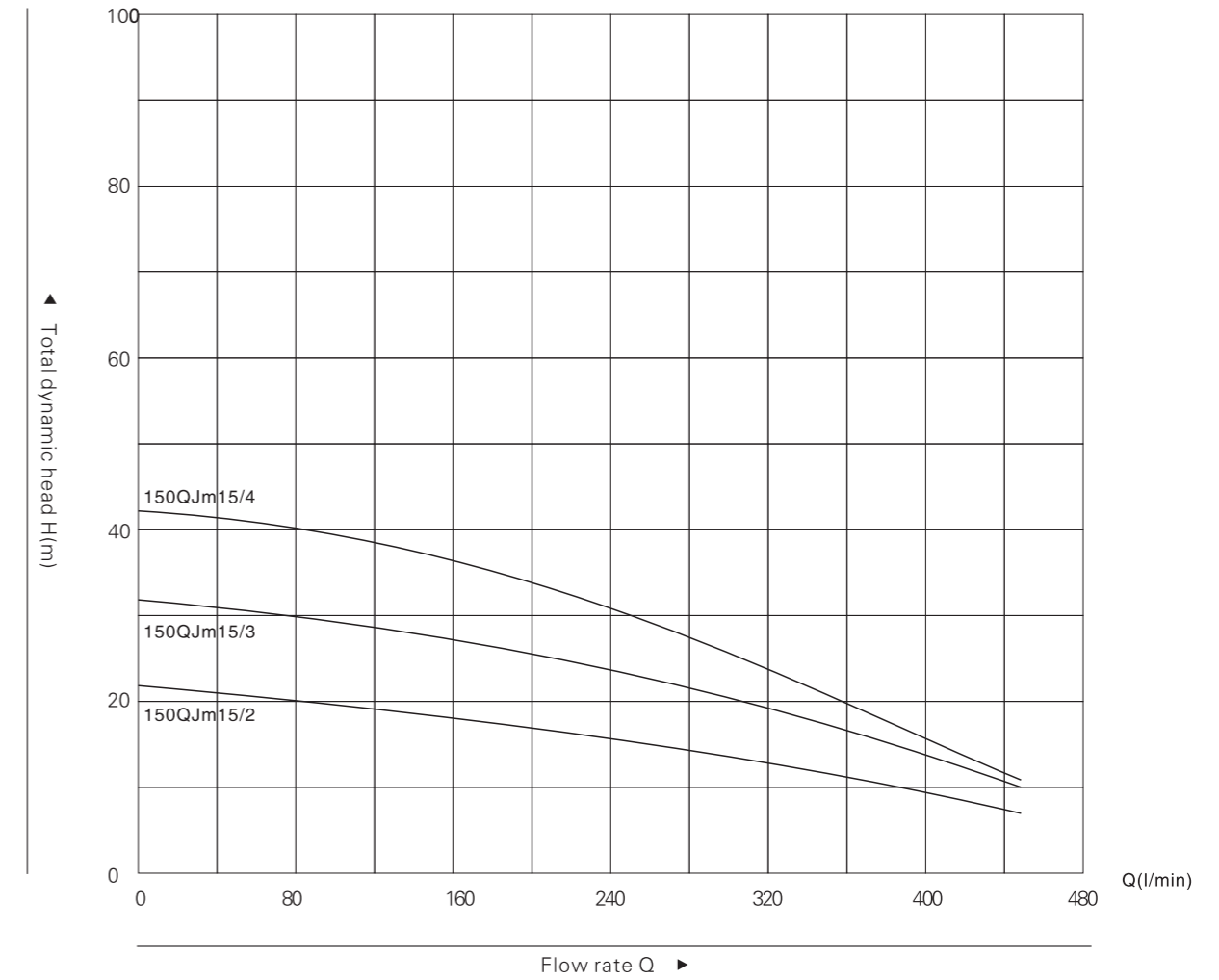


PERFORMANCE TABLE:

Type		Motor power		Delivery N≈2850 r/min										
1~ 220V-240V	3~ 380V-415V	KW	HP	Q	0	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2
				l/min	0	30	60	90	120	150	180	210	240	270
150QJm8/2	-----	0.75	1.0	H(m)	25	24	23	22	21	18	16	14	10	6
150QJm8/3	150QJ8/3	1.1	1.5		37	36	35	33	31	26	22	17	13	9
150QJm8/4	150QJ8/4	1.5	2.0		50	49	45	42	41	33	29	24	18	11
150QJm8/5	150QJ8/5	2.2	3.0		65	63	60	56	52	41	36	31	23	16



150QJ 15 Submersible pump



PERFORMANCE TABLE:

Type		Motor power		Delivery N≈2850 r/min										
1~ 220V-240V	3~ 380V-415V	KW	HP	Q	0	6.0	9.0	12	15	18	21	24	27	
				l/min	0	100	150	200	250	300	350	400	450	
150QJm15/2	150QJ15/2	1.1	1.5	H(m)	22	20	19	17	16	13	11	8	7	
150QJm15/3	150QJ15/3	1.5	2.0		32	28	26	25	24	19	16	12	10	
150QJm15/4	150QJ15/4	2.2	3.0		42	37	35	33	30	24	20	15	11	

6SR Submersible pump



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: +35°C.
Maximum sand content: 3%.
Maximum immersion: 120m.
Minimum well diameter: 6".

Motor and pump

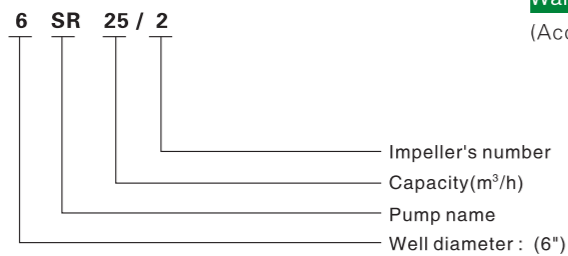
Rewindable motor
Three-phase: 350V-415V/50Hz
NEMA dimension standards

Internal diameter of outlet

3"

Warranty: 1 year

(According to our general sales conditions).



National patent No. : ZL200920305652.0
Any copy is illegal!

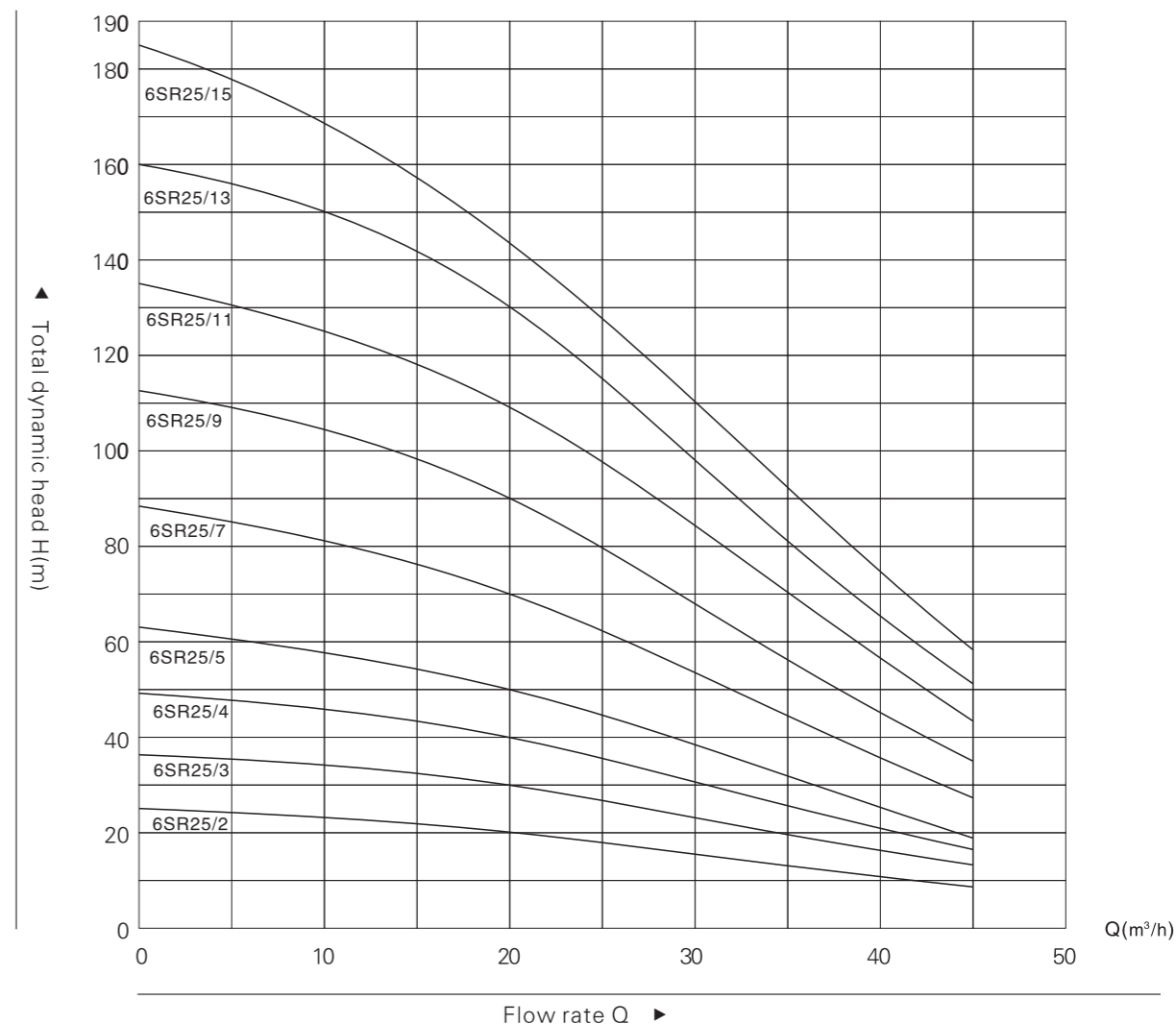
COMPONENTS	MATERIAL
Pump casing	AISI 304SS/201SS
Outlet	Cast-iron
Inlet	Cast-iron
Strainer	AISI 304SS
Diffuser	PC
Impeller	POM
Pump shaft	AISI 304SS/201SS
Shaft coupling	AISI 304SS/201SS
Motor casing	AISI 304SS/201SS
Mechanical seal	Graphite-ceramic/TC
Top chock	Cast-Cu/Cast-iron
Motor shaft	AISI 304SS
Bearing	NSK/C&U
Seal lubricant oil	10# White Oil

Comparison Between 6SR Series and QS/QY Series

Comparison	Feature	6SR	QS, QY and Others Pumps
1. Multi-Purpose per Pump		Flow of 20-40m³/h	Different pumps with different flow levels
2. Wide-range Flow		No overloading within flow of 20-40m³/h.	Only working at rated flow point. Otherwise electric motors will be overloaded and short-lived.
3. Wide-range Head		Wide-range flow, small changed head	Only working at rated head point. Otherwise electric motors will be overloaded and short-lived.
4. Energy Efficiency		Design of wide head and full flow. Wide efficient areas. 20%-50% less electricity consumption than other pumps in case of deviation of head.	For application far from rated head points, there will be increase 1.2-2 times electricity consumption.
5. Deep Diving		Built-in pressure equilibrator and diving depth up to 150 meters.	Diving depth not exceeding 5 meters.
6. Wide-range Voltage		300V - 420V	360V-400V
7. Anti-sand performance		Eightfold performance better than 6SP one	Short-working life with sand-water
8. Compatibility		Motor made as per NEMA standard, matching with various 6-inch pumps.	Low commonality due to integrative structure between pumps and electric motors



6SR 25 Submersible pump



PERFORMANCE TABLE:

Type	Motor power		Delivery N ≈ 2850 r/min																		
	KW	HP	Q m³/h l/min																		
3~380V-415V			0	10	15	20	25	30	35	40	45	0	165	250	330	415	500	580	665	750	
6SR25/2	2.2	3.0	25	22	21	20	17	15	13	10	8										
6SR25/3	3.0	4.0	37	34	31	30	26	22	19	15	12										
6SR25/4	4.0	5.5	49	45	42	40	35	30	26	20	16										
6SR25/5	5.5	7.5	62	56	52	50	43	37	32	25	19										
6SR25/7	7.5	10	89	79	73	70	61	52	45	35	27										
6SR25/9	9.2	12.5	113	101	93	90	78	67	58	45	35										
6SR25/11	11	15	135	124	114	110	95	81	71	55	43										
6SR25/13	13	18	160	146	135	130	113	96	84	65	51										
6SR25/15	15	20	185	169	156	150	130	111	97	75	58										

6SP Stainless steel Submersible pump



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: +35°C.
Maximum sand content: 0.25%.
Maximum immersion: 120m.
Minimum well diameter: 6".

Motor and pump

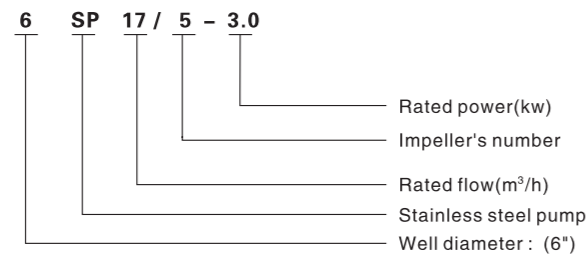
Rewindable motor
Three-phase: 350V-400V/50Hz
Equip with start-up control box.
NEMA dimension standards

Internal diameter of outlet

2.5" 3"

Warranty: 1 year

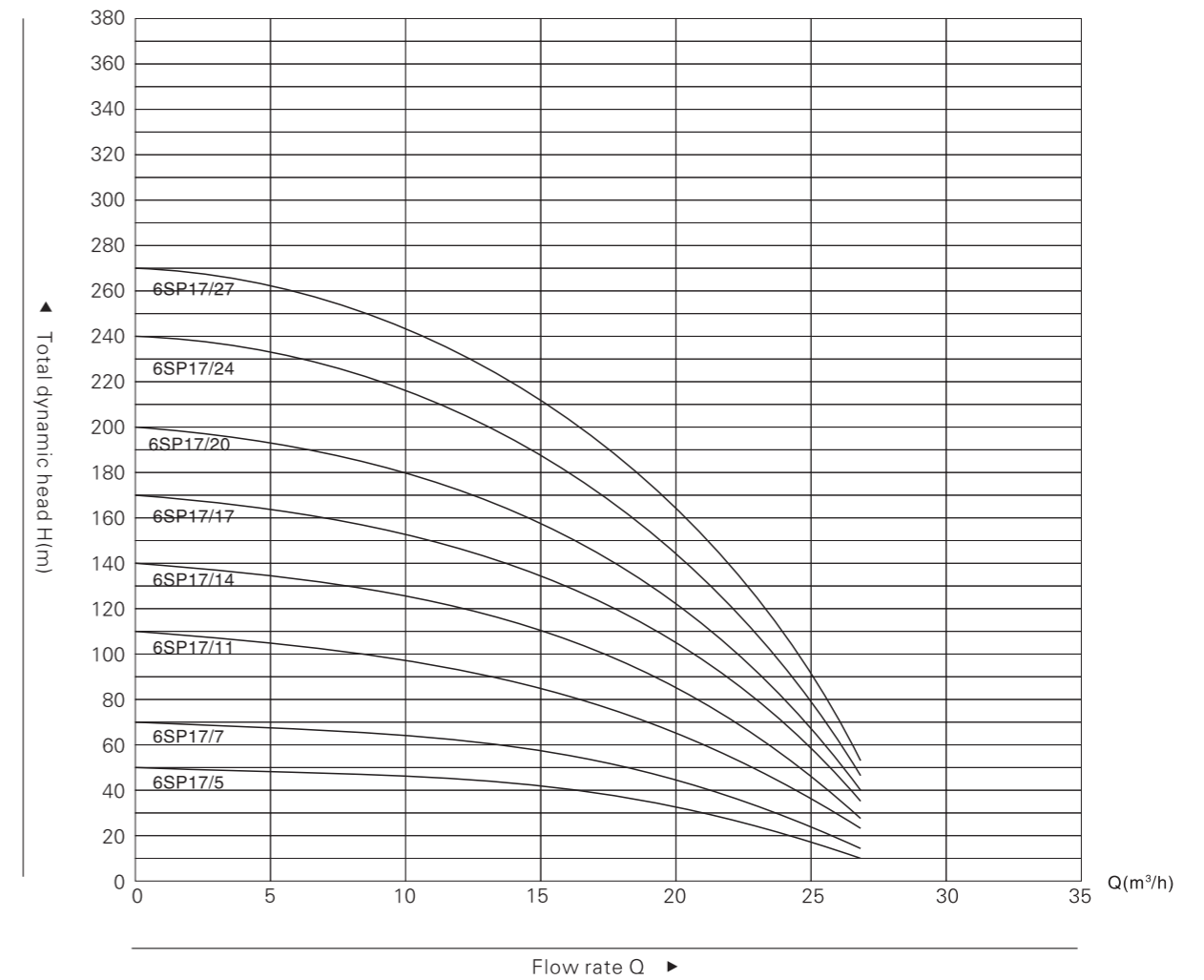
(According to our general sales conditions).



COMPONENTS	MATERIAL
Pump casing	AISI 304SS
Outlet	AISI 304SS
Inlet	AISI 304SS
Strainer	AISI 304SS
Diffuser	AISI 304SS
Impeller	AISI 304SS
Pump shaft	AISI 304SS
Shaft coupling	AISI 304SS
Motor casing	AISI 304SS/201SS
Mechanical seal	Graphite-ceramic/TC
Top chock	Cast-Cu/Cast-iron
Motor shaft	AISI 304SS
Bearing	NSK/C&U
Seal lubricant oil	10# White Oil



6SP17 Stainless steel Submersible pump

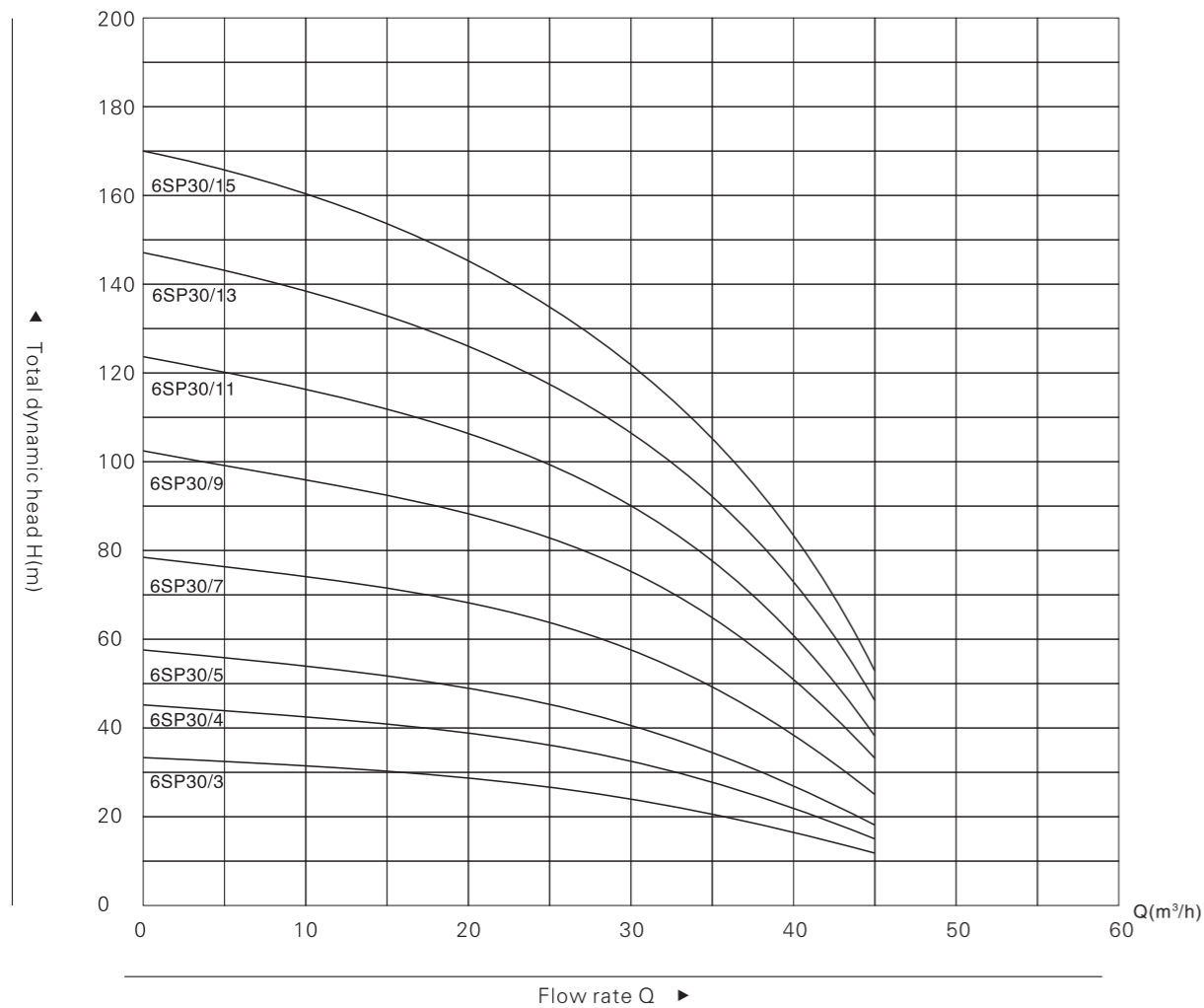


PERFORMANCE TABLE:

Type	Motor power		Q	m³/h							
	KW	HP		0	9	12	15	18	21	24	27
3~380V/415V				0	150	200	250	300	350	400	450
6SP17/5	3.0	4.0	H(m)	50	45	41	39	35	30	18	10
6SP17/7	4.0	5.5		70	63	57	55	49	42	26	14
6SP17/11	5.5	7.5		110	99	90	86	77	66	41	22
6SP17/14	7.5	10		140	126	115	109	98	84	52	28
6SP17/17	9.2	12.5		170	153	139	133	119	102	63	34
6SP17/20	11	15		200	180	164	156	140	120	74	40
6SP17/24	13	18		240	216	197	187	168	144	89	48
6SP17/27	15	20		270	243	221	211	189	162	100	54

6SP 30

Stainless steel Submersible pump



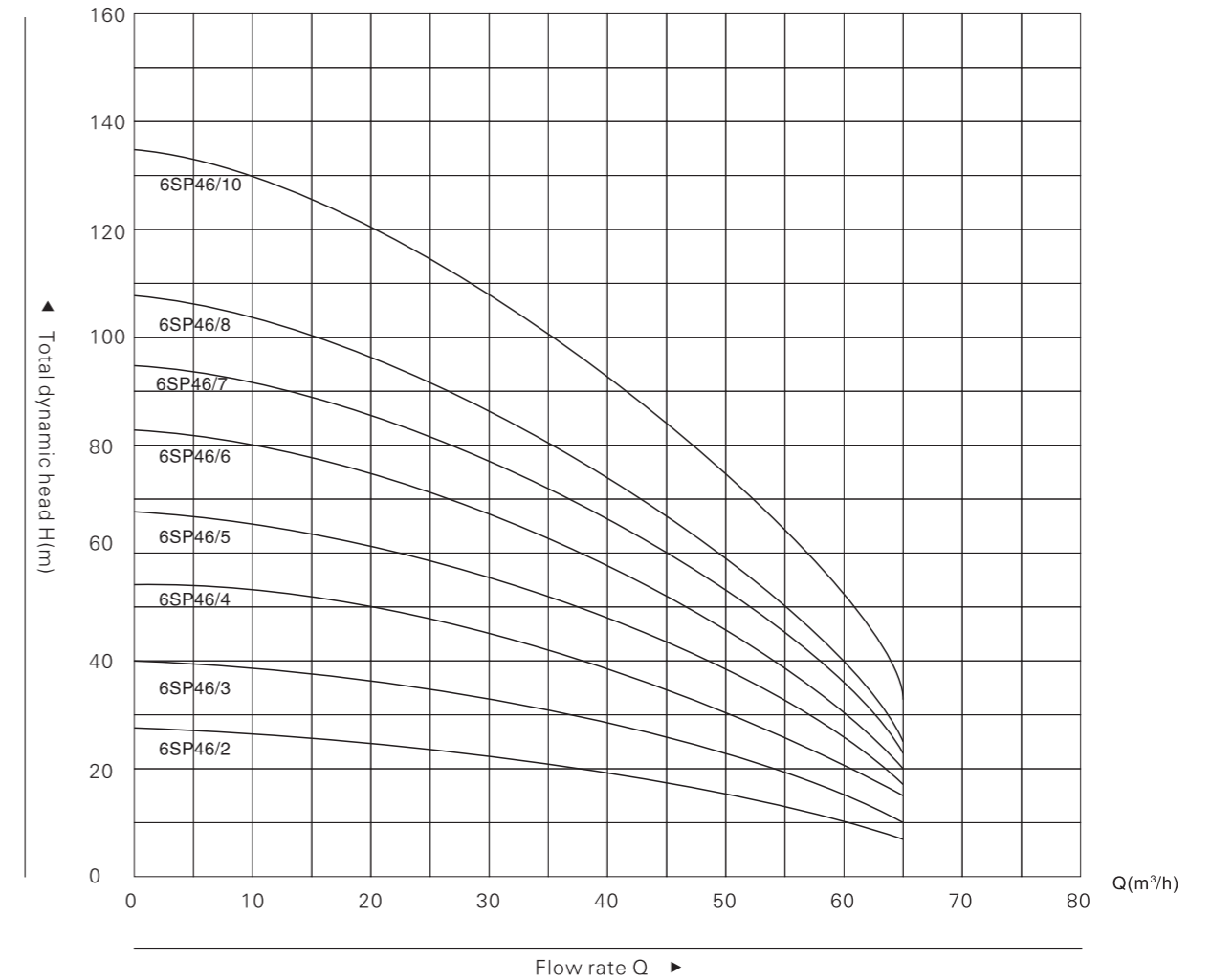
PERFORMANCE TABLE:

Type	Motor Power		Q	H(m)														
	KW	HP		m³/h	0	10	15	20	25	30	35	40	45					
3-380V-415V			L/min	0	165	250	330	415	500	580	665	750						
6SP30/3	3.0	4.0	H(m)	34	32	31	29	27	25	21	17	11						
6SP30/4	4.0	5.5		45	42	41	38	36	33	28	22	14						
6SP30/5	5.5	7.5		57	53	51	48	45	41	35	28	18						
6SP30/7	7.5	10		79	74	71	67	63	57	49	39	25						
6SP30/9	9.2	12.5		102	95	92	86	81	74	63	50	32						
6SP30/11	11	15		124	117	112	106	99	90	77	62	39						
6SP30/13	13	18		147	138	133	125	117	107	91	73	46						
6SP30/15	15	20.0		170	159	153	144	135	123	105	84	53						



6SP 46

Stainless steel Submersible pump

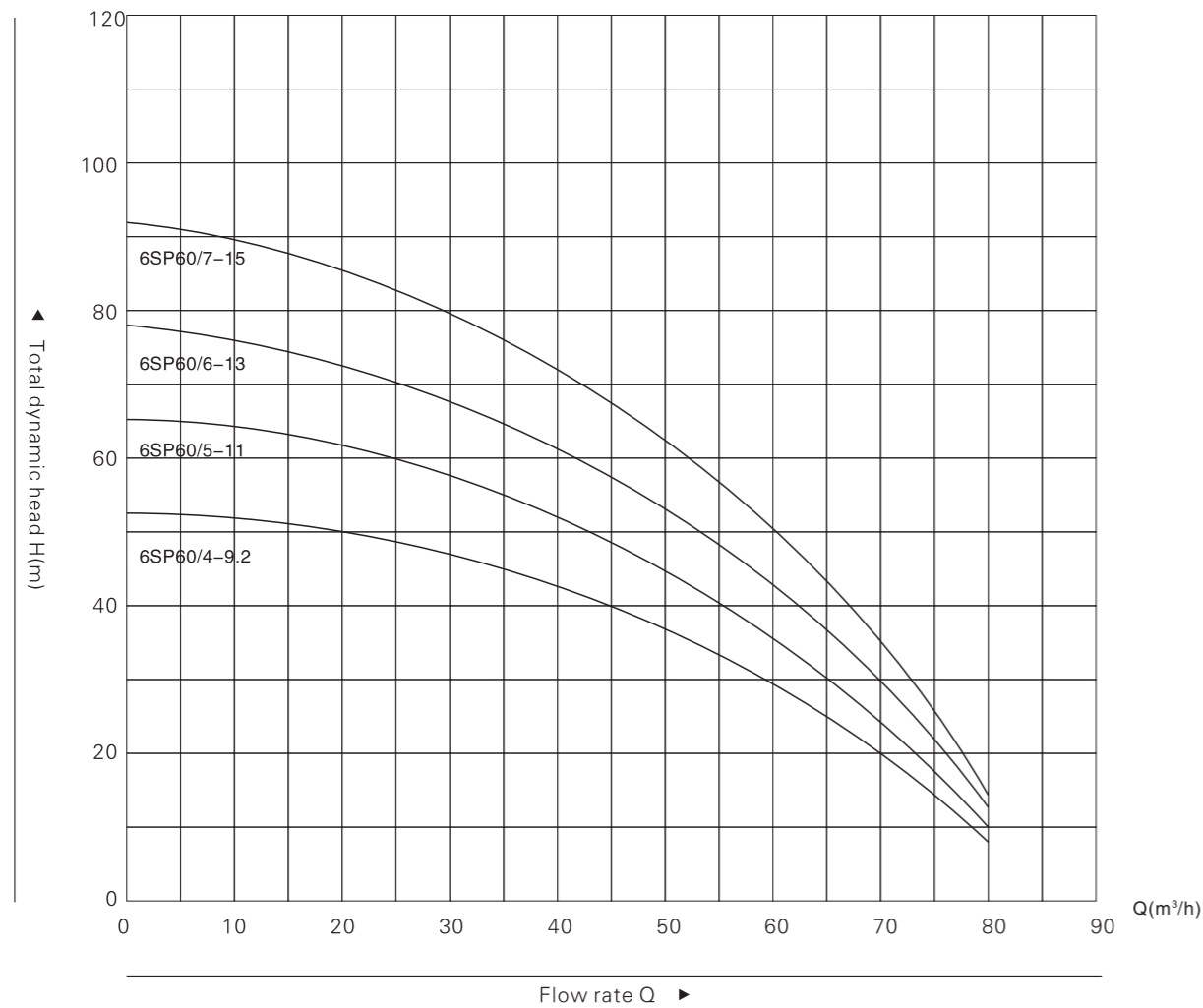


PERFORMANCE TABLE:

Type	Motor Power		Q	H(m)													
	KW	HP		m³/h	0	10	20	30	40	46	50	60	65				
3-380V-415V			L/min	0	165	330	500	665	765	830	1000	1085					
6SP46/2	3.0	4.0	H(m)	27	26	24	21	19	17	15	10	7					
6SP46/3	4.0	5.5		40	39	36	32	28	26	22	15	10					
6SP46/4	5.5	7.5		54	52	48	42	37	34	29	20	13					
6SP46/5	7.5	10		67	65	59	53	47	43	37	25	17					
6SP46/6	9.2	12.5		81	78	71	63	56	51	44	30	20					
6SP46/7	11	15		94	91	83	74	65	60	51	35	23					
6SP46/8	13	18		108	104	95	84	74	68	59	40	26					
6SP46/10	15	20		135	130	119	105	93	85	74	50	33					

6SP 60

Stainless steel Submersible pump

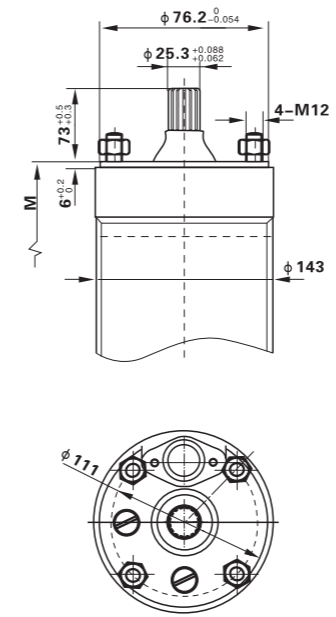


PERFORMANCE TABLE:

Type	Motor Power		Q	H(m)														
	KW	HP		m³/h	0	10	20	30	40	50	60	70	80					
3-380V-415V			L/min	0	165	330	500	665	830	1000	1165	1333						
6SP60/4	9.2	12.5		52	51	50	45	39	34	29	20	8						
6SP60/5	11	15		65	64	63	57	49	43	36	25	10						
6SP60/6	13	18		78	76	75	68	58	51	43	30	12						
6SP60/7	15	20		91	89	88	79	68	60	50	35	14						



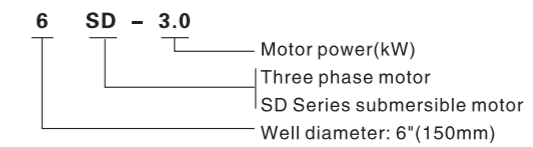
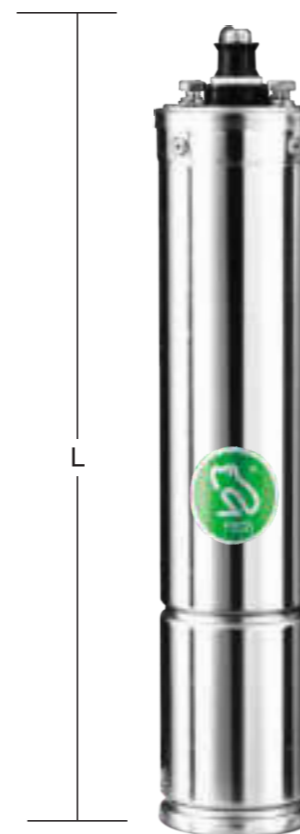
6SD MOTOR



Motor technical data:

- Three phase power: 3 to 15 kW
- Speed: 2850rpm
- Voltage: 380V-415V~/50Hz
- Insulation class: B
- Protection grade: IP 68
- Highest temperature of liquid: 35°C
- Flange and coupling according to NEMA standard
- Motor casing: stainless AISI 304SS/201SS
- Maximum diameter: $\phi 95$ mm
- With sandproof cover / pressure balance membrane/ mechanical seal with high performance.

- Max. PH value within 6.5-8.5
- Max. voltage Flutation: $\pm 5\%$
- Max. Frequency Flutation: $\pm 1\%$
- Max. Start: 20/Hour



PERFORMANCE TABLE:

Type	Voltage	Current	Length	Diameter
6SD-3.0KW	380	5.6	562	134
6SD-4.0KW	380	7.5	582	134
6SD-5.5KW	380	10	662	134
6SD-7.5KW	380	12	712	134
6SD-9.2KW	380	13.5	787	134
6SD-11KW	380	16	837	134
6SD-13KW	380	17.5	887	134
6SD-15KW	380	21	937	134

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: +35°C.
Maximum sand content: 0.25%.
Maximum immersion : 120m.
Minimum well diameter : 4".

Motor and pump

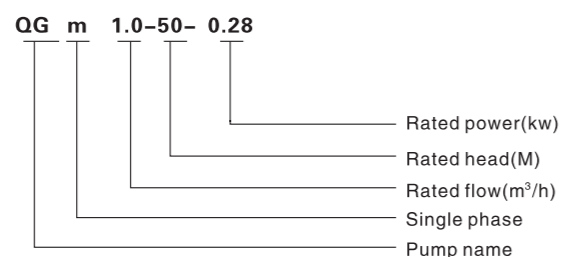
Rewindable motor
Three-phase: 350V-400V/50Hz
Single-phase: 180V-230V/50Hz
Equip with start-up control box.
NEMA dimension standards

Internal diameter of outlet

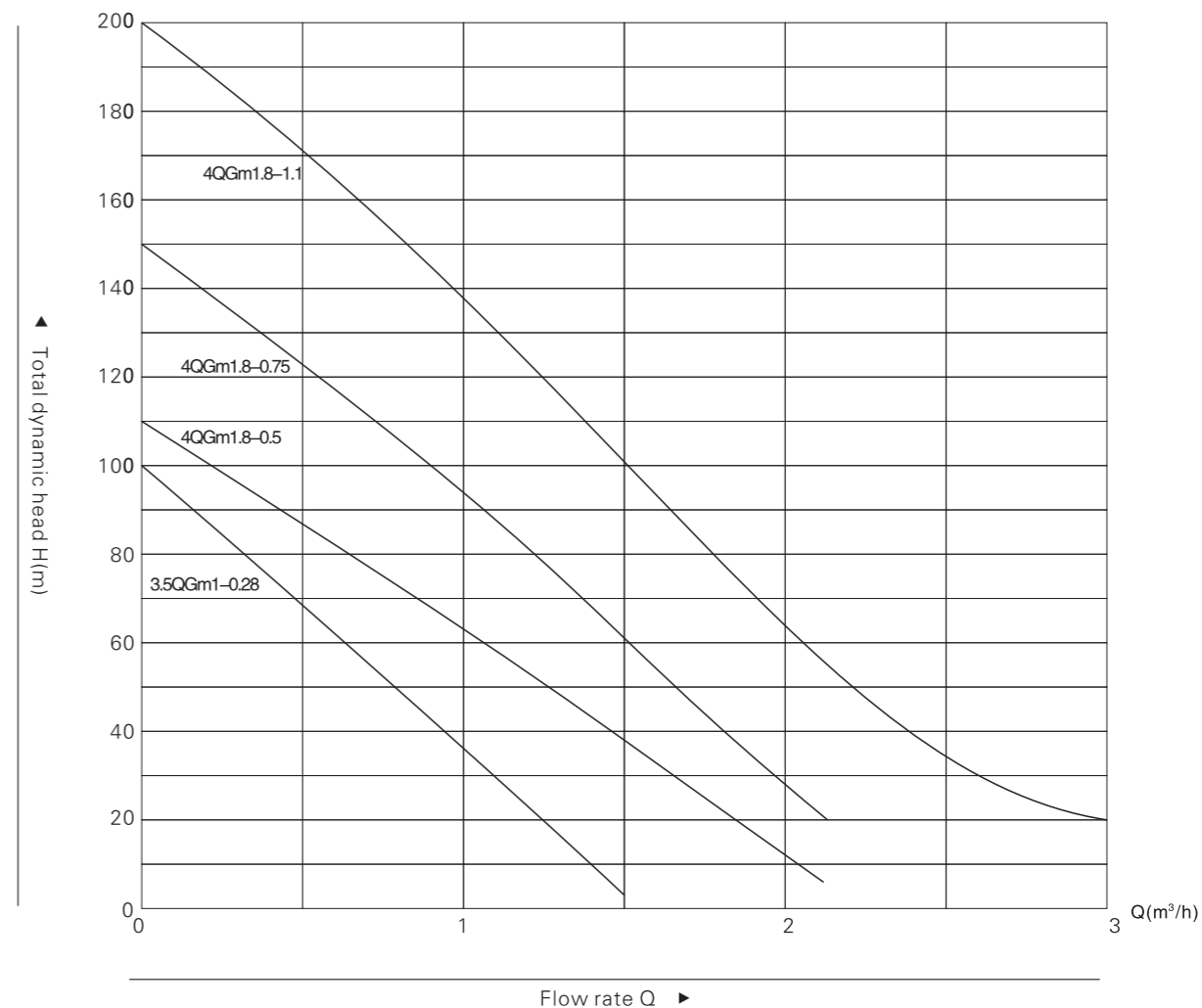
1.0"

Warranty: 1 year

(According to our general sales conditions).



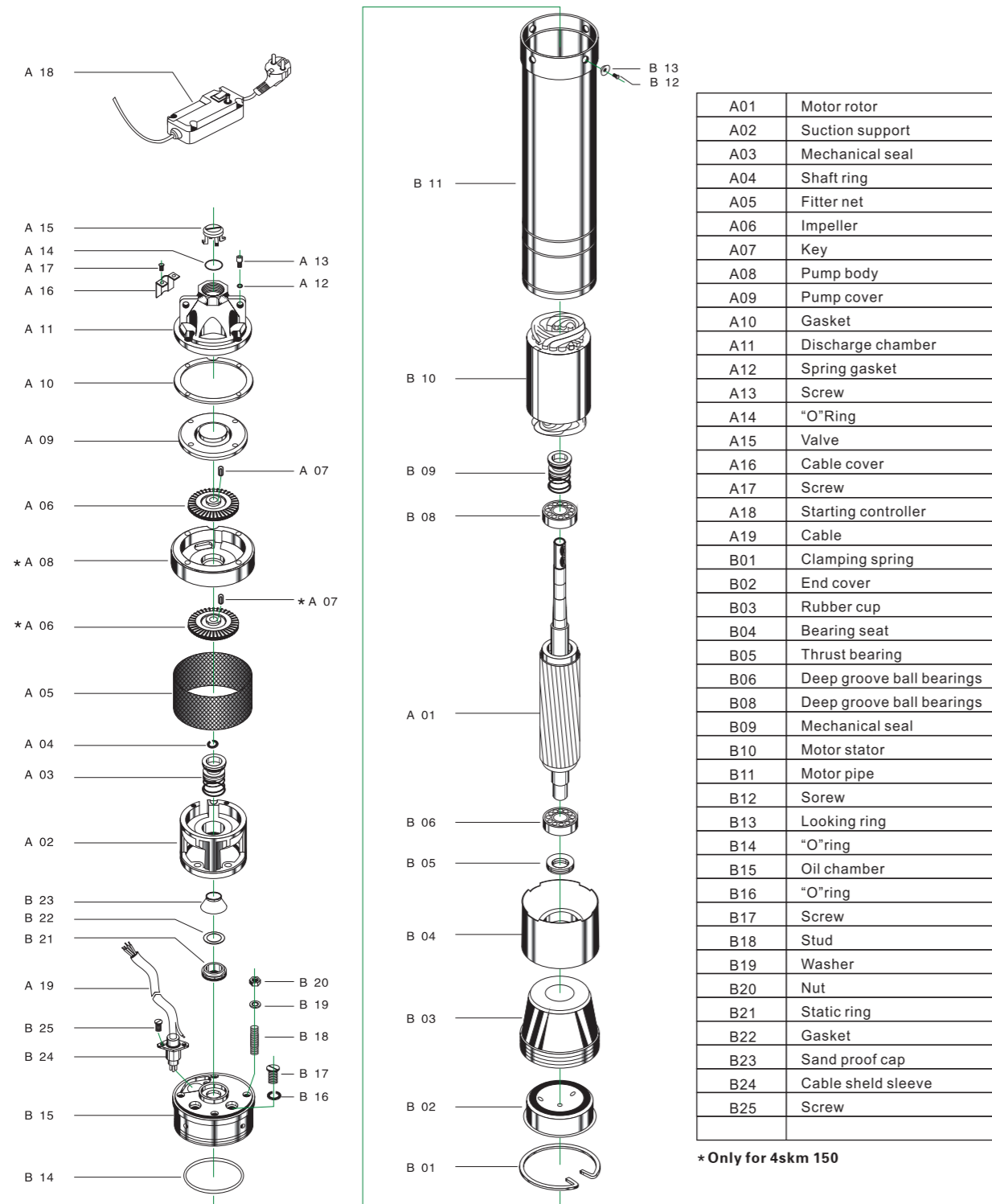
COMPONENTS	MATERIAL
Outlet	AISI201SS
Strainer	AISI201SS
Motor casing	AISI 304SS/201SS
Mechanical seal	Graphite-ceramic/TC
Top chock	Cast-Cu/Cast-iron
Motor shaft	AISI 304SS
Seal lubricant oil	10# White Oil



PERFORMANCE TABLE:

Type	Voltage	Motor Power		Flow rate	H(m)									
		KW	HP		0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	3.0	
3.5QGm1-0.28	220	0.28	0.38	H(m)	0	5	10	15	20	25	30	35	60	
4QGm1.8-0.5	220	0.5	0.68		100	80	62	40	21	2				
4QGm1.8-0.75	220	0.75	1.0		110	100	84	70	52	38	22	5		
4QGm1.8-1.1	220	1.1	1.5		150	130	110	95	73	55	40	20		
					200	180	160	140	120	100	75	45	20	

The structure, code and name of the pump



Technical data

Q_{max}: 3.5 (m³/h)
Capacity from 1 to 2 (m³/h)
Total head from 140 to 3 (m)

Motor

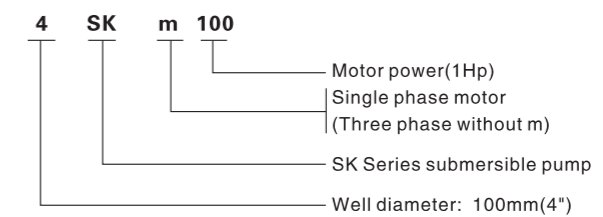
Continuous service.
Power: 1 to 2Hp (Single phase)
Insulation class: B
Protection grade: IP 68
Maximum diameter: φ93 mm
Highest temperature of liquid: 35°C
NEMA dimension standards

Main uses

For 4" wells.
Pumping clear water into: Detached houses
–Country houses and farms–Cottages.
Moving water in fountains.
Rain irrigation.
Feeding pressure systems.
Filling and emptying tanks.

Structure features

Shaft, jacket and hydraulics in stainless steel.
Brass impeller.
Built-in non-return valve.
Thermoplastic parts.
Oil-cooled motor with compensating diaphragm.
Graphite mechanical seal protected by sand proof ring.
4SKm Series parts are non-toxic and non-polluting.
Thanks to special construction features, both installation and maintenance of 4SKm Series are fast and easy.



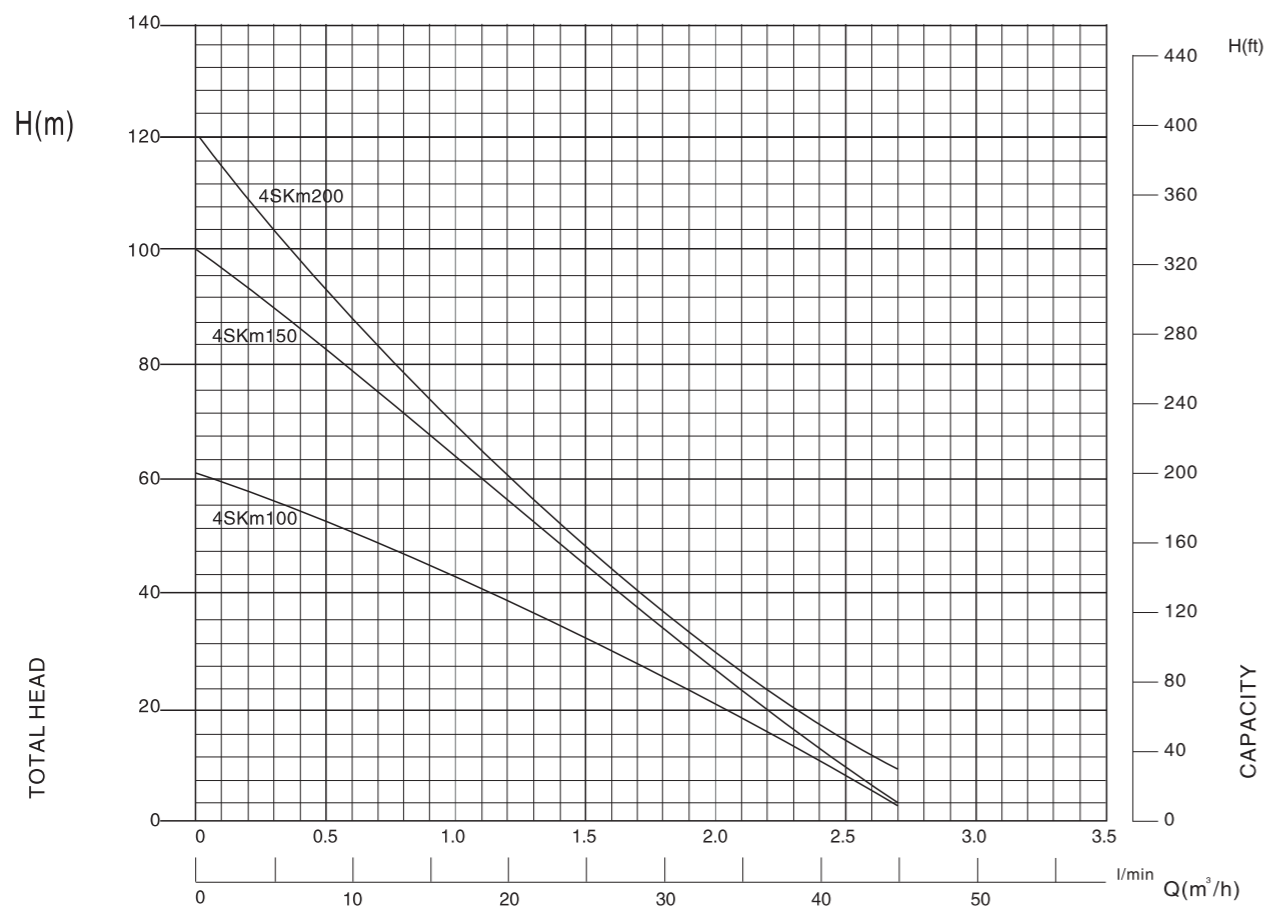
4SK

Series Peripheral submersible pump



QK102/103

Single phase motor controller



PERFORMANCE TABLE:

Type	Motor Power		Q	H(m)												
	KW	HP		m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7		
1~220V-240V			L/min	0	5	10	15	20	25	30	35	40	45			
4SKm100	0.75	1.0		61	56	52	46	38	31	24	18	11	3			
4SKm150	1.1	1.5		100	90	79	68	56	46	35	24	14	4			
4SKm200	1.5	2.0		120	103	88	76	62	49	37	27	15	5			

Single phase motor intelligent controller

Single phase capacitor operating motor is equipped with an external capacitor and a over-load protector in the starting controller which can automatically break down power supply (manual recover)when motor over-loading.



Suitable application range

- Type of motor: Single phase motor
- Motor power: 0.25~2.2kW
- Voltage: 220~240V~
- Frequency: 50Hz

Product functions

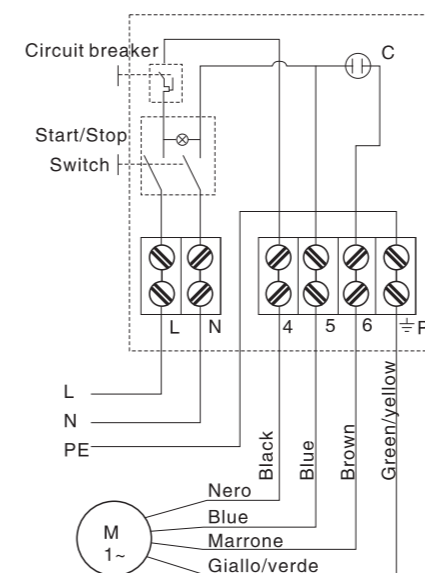
- Protect against short circuit
- Protect against over current

Operating method

- Manual control

Installation environment index

- Grade of protection: IP20
- Environment temperature: -25°C~+55°C
- Environment humidity: (20~90)%RH



QK 1 0 2 - 0.37

- Motor power(kW)
- Design number
- Manual controller
- Single phase
- QK Series controller

INTELLIGENT CONTROLLER



INTELLIGENT CONTROLLER

CBM11	Single Phase	0.5-3HP
CBT11	Three Phase	1HP-5.5HP
CBT12	Three Phase	7.5-10HP



INTELLIGENT CONTROLLER

CBM21	Single Phase	0.5-3HP
CBT21	Three Phase	1HP-5.5HP
CBT22	Three Phase	7.5-10HP

Intelligent Controller(Single Phase)--CBM11,CBM21

- Direct on line Single pump
 - Over load protection
 - Pump stalled protection
 - Dry run protection with sensor free
 - Under voltage protection
 - Over voltage protection
 - Push button calibration
 - Memory function when power off & recovery
 - Pump last five fault record displaying
 - Pump accumulative running time displaying
 - Control and protect universal pump
- Using water level sensor ,float switch or pressure switch to control pump start and stop.
 - Applied for water supply by liquid level control through float switch or liquid probe.
 - Applied for water supply by pressure control through pressure switch and pressure tank.
 - Applied for drainage by liquid level control through float switch or liquid probe.
 - Environment temperature:-25℃-- +55℃.
 - Environment humidity:20%--90%RH, no drips concretedIP22.
 - Wall mounting.

Intelligent Controller(Three Phase)--CBT11,CBT12,CBT21,CBT22

- Direct on line Single pump
 - Over load protection
 - Pump stalled protection
 - Dry run protection
 - Under voltage protection
 - Over voltage protection
 - Open phase protection
 - Push button calibration
 - Memory function when power off & recovery
 - Pump last five fault record displaying
 - Pump accumulative running time displaying
 - Control and protect universal pump
- Using water level sensor ,float switch or pressure switch to control pump start and stop.
 - Applied for water supply by liquid level control through float switch or liquid probe.
 - Applied for water supply by pressure control through pressure switch and pressure tank
 - Applied for drainage by liquid level control through float switch or liquid probe
 - Environment temperature:-25℃-- +55℃
 - Environment humidity:20%--90%RH, no drips concretedIP22
 - Wall mounting

MOTOR PROTECTOR/CONTROLLER



INTELLIGENT CONTROLLER MOTOR PROTECTOR

CBM31	Single Phase	0.5-3HP	CONTROLLER
PBM31	Single Phase	0.5-3HP	PROTECTOR



INTELLIGENT CONTROLLER MOTOR PROTECTOR

CBM41	Single Phase	0.5-3HP	CONTROLLER
CBT41	Three Phase	1HP-5.5HP	CONTROLLER
CBT42	Three Phase	7.5-10HP	CONTROLLER
PBM41	Single Phase	0.5-3HP	PROTECTOR
PBT41	Three Phase	1HP-5.5HP	PROTECTOR
PBT42	Three Phase	7.5-10HP	PROTECTOR

Motor Protector(Single Phase) Specification--CBM31,PBM31,CBM41,PBM41

- Direct on line
 - Over load protection Motor stalled protection
 - Dry run protection with sensor free Under voltage protection
 - Over voltage protection
 - Transient surge protection
 - Memory function when power off & recovery LCD screen displaying pump running status
 - Push button calibration
- Reserved space for installing pump start capacitor
 - Environment temperature:-25℃-- +55℃
 - Environment humidity:20%--90%RH, no drips concreted IP54
 - Wall mounting

Motor Protector(Three Phase) Specification--CBT41,CBT42,PBT41,PBT42

- Over load protection
 - Motor stalled protection
 - Dry run protection with sensor free
 - Open phase protection
 - Under voltage protection
 - Over voltage protection
 - Transient surge protection
 - Memory function when power off & recovery
 - LCD screen displaying pump running status
 - Push button calibration
- Reserved space for installing pump start capacitor
 - Environment temperature:-25℃-- +55℃
 - Environment humidity:20%--90%RH, no drips concreted IP22
 - Wall mounting

INTELLIGENT CONTROLLER/ PROTECTOR



MOTOR PROTECTOR

F3-7.5	Three phase	0.75-7.5Kw
F3-15	Three phase	9.2-15Kw



INTELLIGENT CONTROLLER

CBT51	Three Phase	1HP-5.5HP
CBT52	Three Phase	7.5HP-10HP
CBT53	Three Phase	15HP
CBT54	Three Phase	20HP
CBT55	Three Phase	25HP

Motor Protector(Three Phase)--F3

- Direct on line Single pump
- Over load protection
- Pump stalled protection
- Dry run protection with sensor free
- Open phase protection
- Protect universal pump
- Memory function when power off & recovery
- Intellectual chip
- Three-phase imbalance protection

- Environment temperature:-5°C~40°C.
- Environment humidity:Lower than 50% when the temperature exceed 40°C,
- lower than 90% when the temperature is 20°C.
- Maximum altitude:2000 meters.

Intelligent Controller(Three Phase)--CBT5

- Direct on line Single pump
- Over load protection
- Pump stalled protection
- Dry run protection
- Under voltage protection
- Over voltage protection
- Open phase protection
- Push button calibration
- Memory function when power off & recovery
- Pump last five fault record displaying
- Pump accumulative running time displaying
- Control and protect universal pump

- Using water level sensor ,float switch or pressure switch to control pump start and stop.
- Applied for water supply by liquid level control through float switch or liquid probe.
- Applied for water supply by pressure control through pressure switch and pressure tank
- Applied for drainage by liquid level control through float switch or liquid probe
- Environment temperature:-25°C-- +55°C
- Environment humidity:20% --90% RH, no drips concretedIP22
- Wall mounting

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