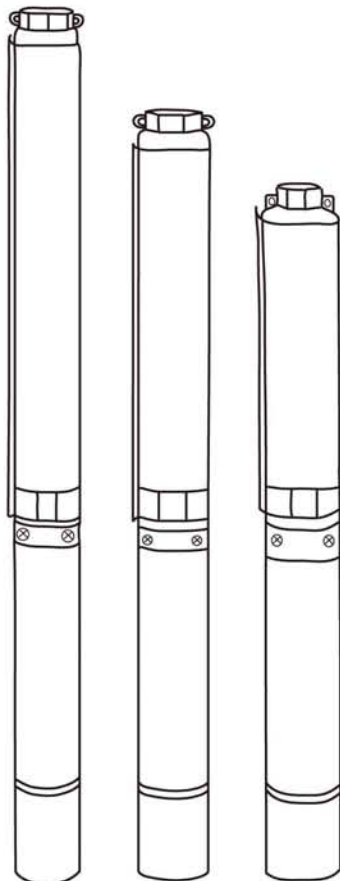


# ST series 4''

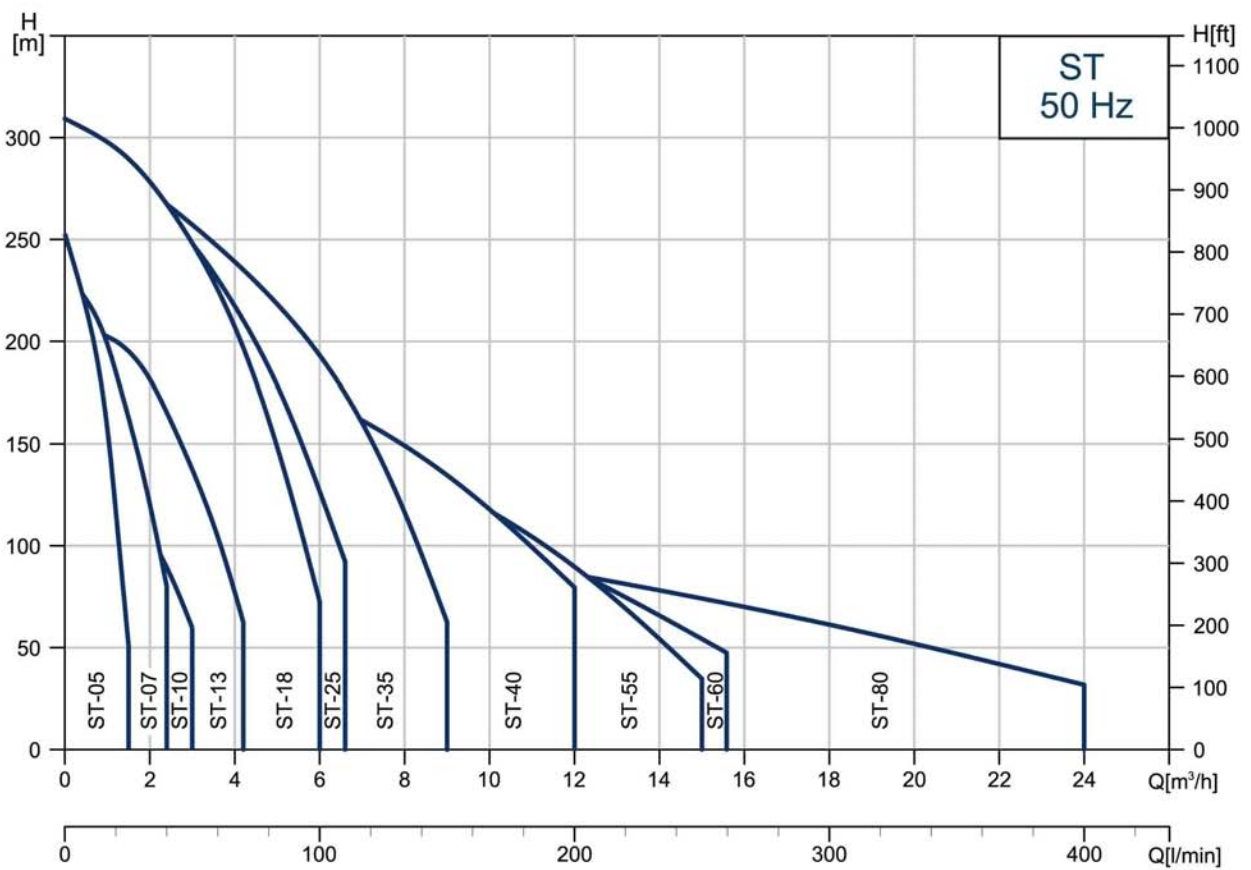
## Submersible Electric Pumps

50HZ





# Performance range



# STAIRS 4" ST Submersible Pump

## **Discharge Head and Motor**

**Adaptor** are precision machined cast 304 stainless steel for superior strength and durability. The motor adaptor is NEMA standard.

## **Impellers are floating type made with Noryl<sup>®</sup>**

for a superior sand handling. Together with glass filled polycarbonate diffusers make the super strong pumps for maximum wear and abrasive resistance. The materials are FDA compliant materials.

**Impeller Bowls** are made from 304 stainless steel, maximizing wear from abrasion.

**Shaft Coupling** is made from 304 stainless steel for easy alignment to the motor shaft.

**Strainer** is made from stamped 304 stainless steel for rigidity.



# Floating impellers, compact, abrasion resistance

**Non-Return valve** made from 304 stainless steel, fitted in the discharge to prevent any back flow of water and alleviate any water hammer to the pumps.

**Pump Shaft** is made from hex 304 stainless steel bar material for high corrosion resistance.

**Pump body** is covered by a 1.5mm thick 304 polished stainless steel casing, ensures optimum resistance to abrasion.

**Bearing** is made with Polyacetal for strong wear and abrasive resistance.

## OPERATION CHARACTERISTICS

Max voltage variation	+ 10% / - 10%
Max starts / h	40
Max water temperature	35 °C
Flow rate	0.08m/sec
Axial thrust	2000N from 0.37 kW up to 2.2 kW 3000N 2.2 kW 5000N from 3 kW up to 7.5kW
Max immersion depth	200m

## APPLICATIONS

- Water Supply
- Irrigation
- Pressure Boosting

## GENERAL SPECIFICATIONS PUMP

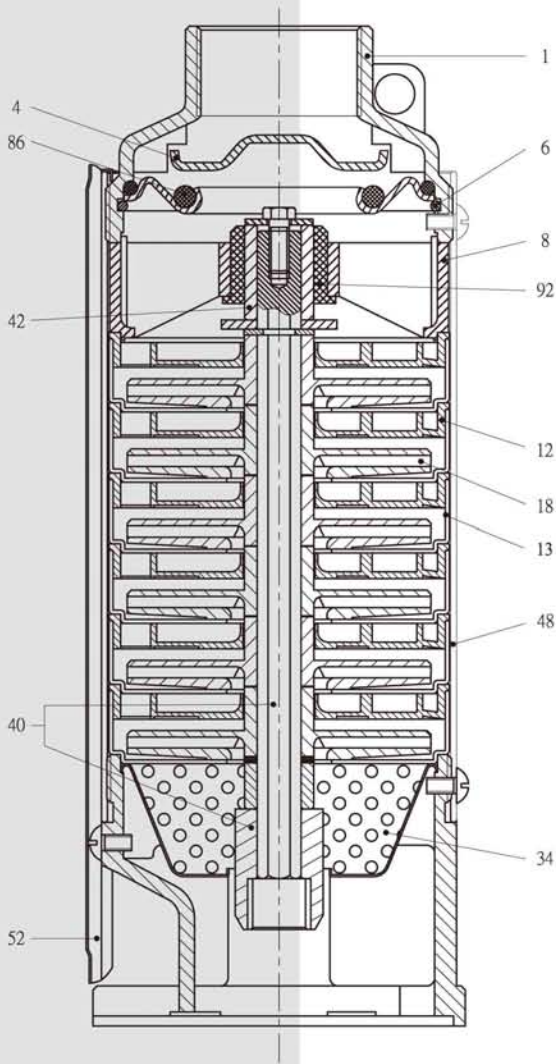
- Delivery: up to 24 m<sup>3</sup>/h at 2850 rpm
- Head: up to 322 m at 2850 rpm
- Pump overall diameter (Cable Guard Included): 98mm
- Maximum permissible quantity of sand: 50g/m<sup>3</sup>
- ST05-ST07-ST10-ST13-ST18-ST25 models  
Rp1 ¼" discharge.
- ST35 model 1 ½" discharge.
- ST40-ST55-ST60-ST80 models Rp 2" discharge.
- Motor Power: from 0.37 to 7.5 kW.

## MOTOR

Flange	4" NEMA standard
Degree of protection	IP 68
Insulation class	F
Single phase motors	0.37 kW up to 4 kW
Three phase motors	0.37 kW up to 7.5 kW
Standard voltages	1~ 220-230V 3~ 230 or 400
Cable length	1.7 M 0.37 kW up to 1.5 kW 2.5 M 2.2 kW up to 7.5 kW



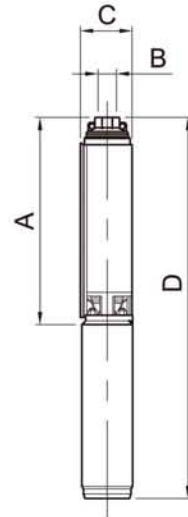
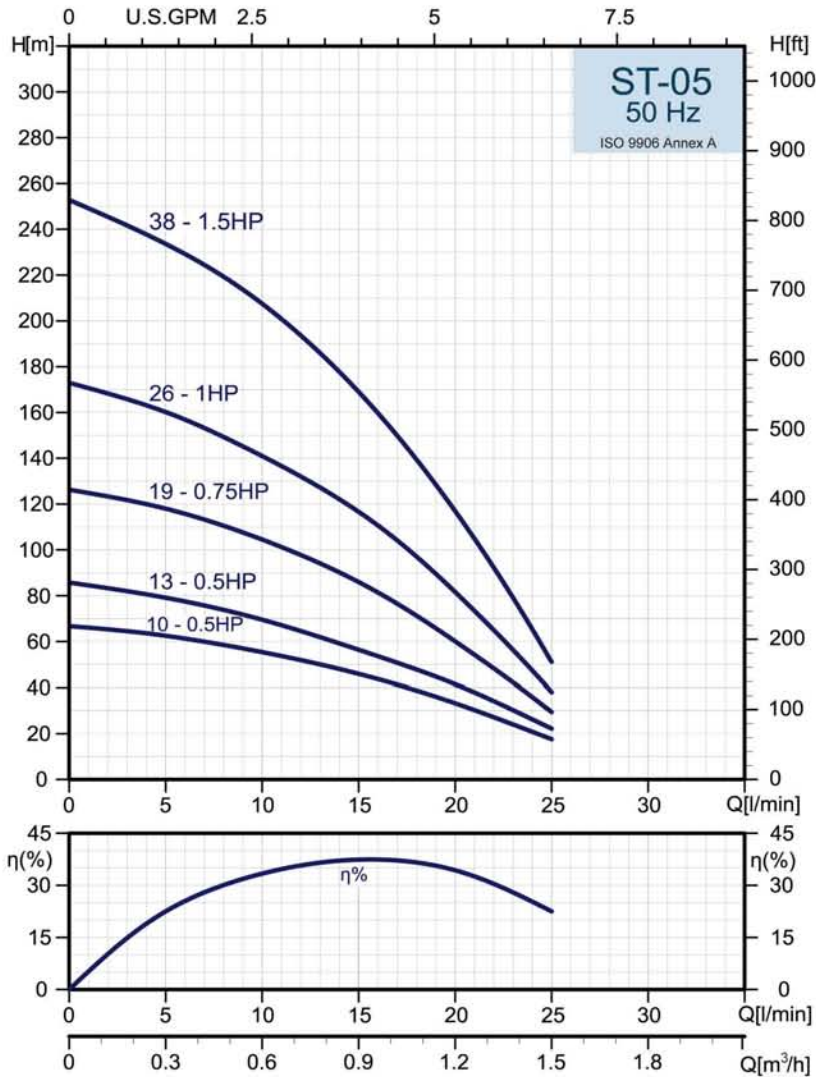
# Material Specification



Pos.	Part Name	Material
01	Discharge Head	AISI 304 SS
04	Check Valve Cone	AISI 304 SS
06	Check Valve retaining Ring	AISI 304 SS
08	Bearing Spider	Glass Filled Polycarbonate
12	Diffuser	Glass Filled Polycarbonate
13	Bowl	AISI 304 SS
18	Impeller	Noryl
34	Strainer	AISI 304 SS
40	Pump Shaft/ Coupling	AISI 304 SS
42	Shaft Sleeve	AISI 304 SS or Noryl
48	Pump Casing	AISI 304 SS
52	Cable Guard	AISI 304 SS
86	O-Ring	NBR
92	Bearing	Polyacetal

# Performance Curves

# ST-05



Single Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-0510	324	RP/ NPT 1 1/4"	98	670
ST-0513	377		98	723
ST-0519	481		98	846
ST-0526	642		98	1022
ST-0538	864		98	1269

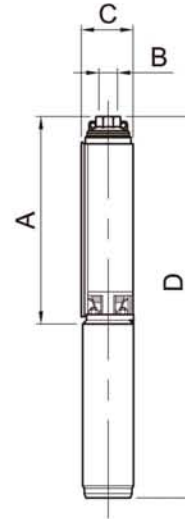
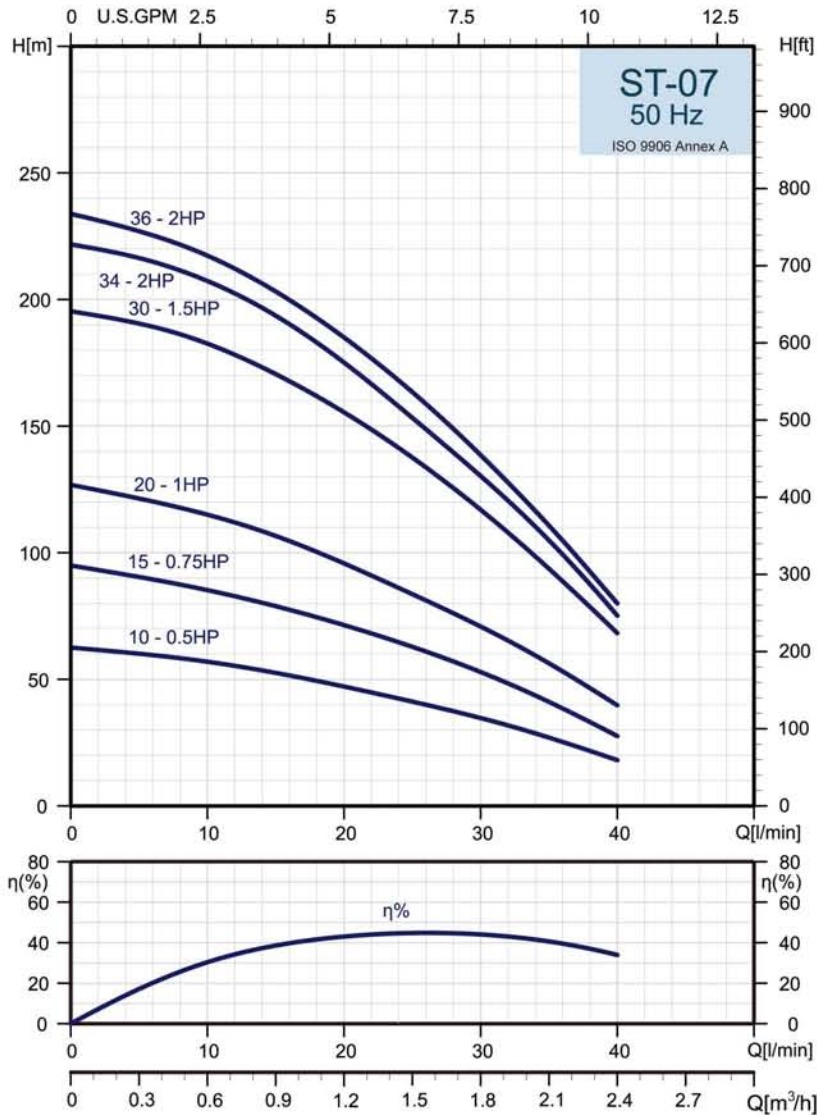
Three Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-0510	324	RP/ NPT 1 1/4"	98	654
ST-0513	377		98	707
ST-0519	481		98	827
ST-0526	642		98	1007
ST-0538	864		98	1244

## Selection Chart

PUMP TYPE	STAGES	MOTOR		Q=DELIVERY								PUMP	ELECTRO PUMP	
				H=TOTAL HEAD IN METERS									Net Weight(kg)	
		KW	HP	l/min	5	10	15	20	25	30	Single phase	Three phase		
				m³/h	0.3	0.6	0.9	1.2	1.5	1.8				
ST-0510	10	0.37	0.5	67	63	55	46	33	18	3.3	10.6	10.0		
ST-0513	13	0.37	0.5	86	78	70	56	42	23	3.7	11.0	10.4		
ST-0519	19	0.55	0.75	126	118	105	86	60	30	4.7	12.9	12.1		
ST-0526	26	0.75	1	173	160	141	117	81	39	5.8	14.6	14.0		
ST-0538	38	1.1	1.5	253	234	208	169	117	52	8.2	18.2	17.1		

# Performance Curves

# ST-07



Single Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-0710	330	RP/ NPT 1 1/4"	98	676
ST-0715	420		98	785
ST-0720	510		98	890
ST-0730	730		98	1135
ST-0734	795		98	1235
ST-0736	830		98	1270

Three Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-0710	330	RP/ NPT 1 1/4"	98	660
ST-0715	420		98	766
ST-0720	510		98	875
ST-0730	730		98	1110
ST-0734	795		98	1200
ST-0736	830		98	1235

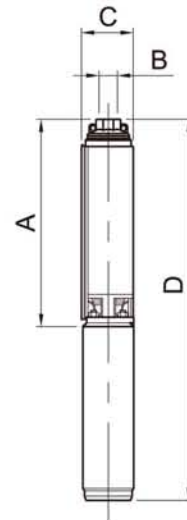
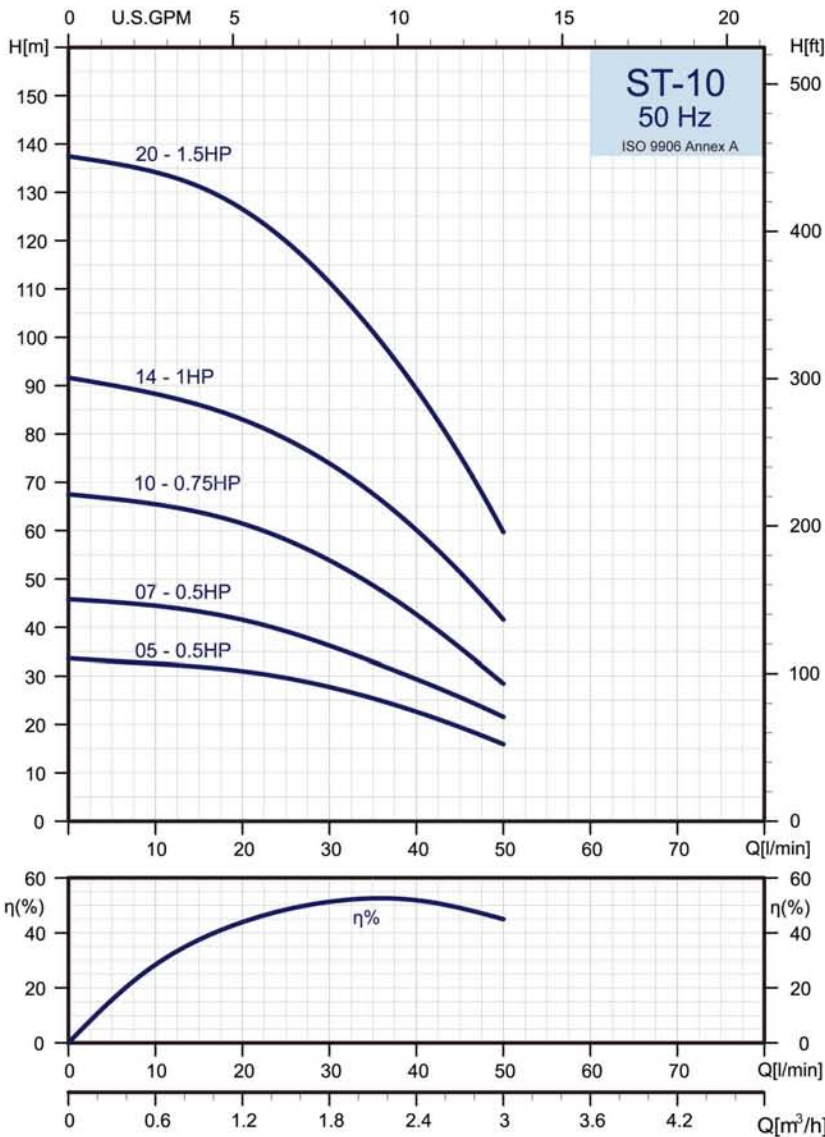
## Selection Chart

PUMP TYPE	STAGES	MOTOR		Q=DELIVERY												PUMP	ELECTRO PUMP	
				H=TOTAL HEAD IN METERS													Net Weight(kg)	Single phase
		KW	HP	l/min 0	5	10	15	20	25	30	35	40	45	PUMP	ELECTRO PUMP			
				m³/h 0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7					
ST-0710	10	0.37	0.5	63		57	53	47	42	35	27	18		3.3	10.6	10.0		
ST-0715	15	0.55	0.75	95		86	78	72	63	53	41	28		4.3	12.5	11.7		
ST-0720	20	0.75	1.0	127		115	107	96	84	71	56	40		5.3	14.1	13.5		
ST-0730	30	1.1	1.5	195		183	171	156	138	117	94	69		7.4	17.4	16.3		
ST-0734	34	1.5	2.0	222		207	194	175	154	130	104	76		8.3	19.8	18.3		
ST-0736	36	1.5	2.0	234		217	203	185	164	138	110	80		8.8	20.3	18.8		



# Performance Curves

# ST-10



Single Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-1005	236	RP/ NPT 1 1/4"	98	582
ST-1007	271		98	617
ST-1010	324		98	689
ST-1014	394		98	774
ST-1020	499		98	904

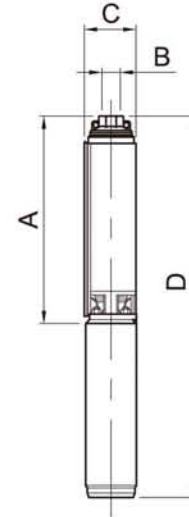
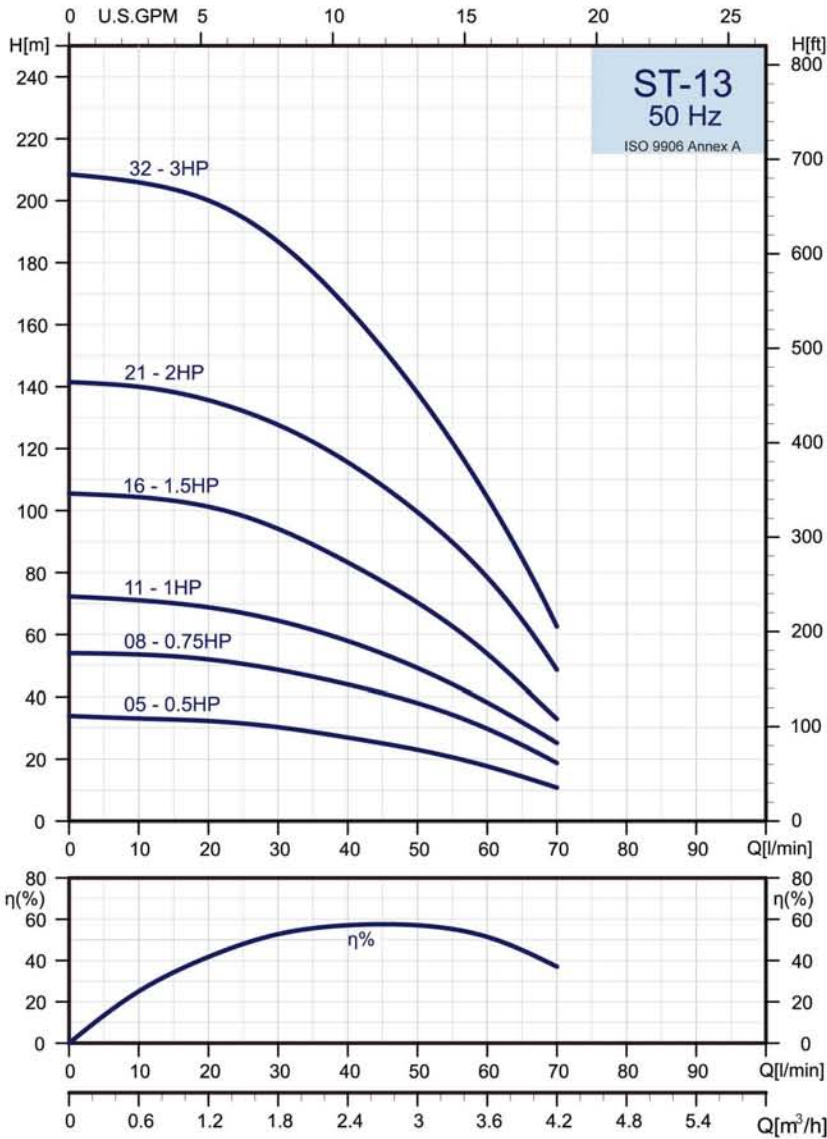
Three Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-1005	236	RP/ NPT 1 1/4"	98	566
ST-1007	271		98	601
ST-1010	324		98	670
ST-1014	394		98	759
ST-1020	499		98	879

## Selection Chart

PUMP TYPE	STAGES	MOTOR		Q=DELIVERY													PUMP	ELECTRO PUMP	
		KW	HP	l/min	10	15	20	25	30	35	40	45	50	60	Net Weight(kg)				
				m <sup>3</sup> /h	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	Single phase	Three phase			
		H=TOTAL HEAD IN METERS																	
ST-1005	5	0.37	0.5	34		32	31	29	27	25	23	19	16		2.5	9.8	9.2		
ST-1007	7	0.37	0.5	46		43	42	39	36	33	29	26	22		2.8	10.1	9.5		
ST-1010	10	0.55	0.75	67		64	61	58	54	49	43	36	28		3.3	11.5	10.7		
ST-1014	14	0.75	1.0	92		86	83	79	74	67	60	52	42		3.9	12.7	12.1		
ST-1020	20	1.1	1.5	139		131	127	120	111	101	90	75	60		4.9	14.9	13.8		

# Performance Curves

# ST-13



Single Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-1305	236	RP/ NPT 1 1/4"	98	582
ST-1308	289		98	654
ST-1311	342		98	722
ST-1316	430		98	835
ST-1321	519		98	959
ST-1332	749		98	1244

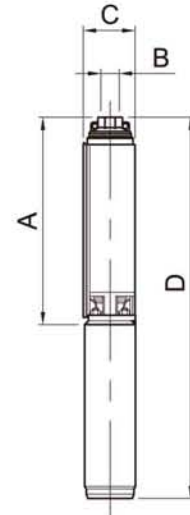
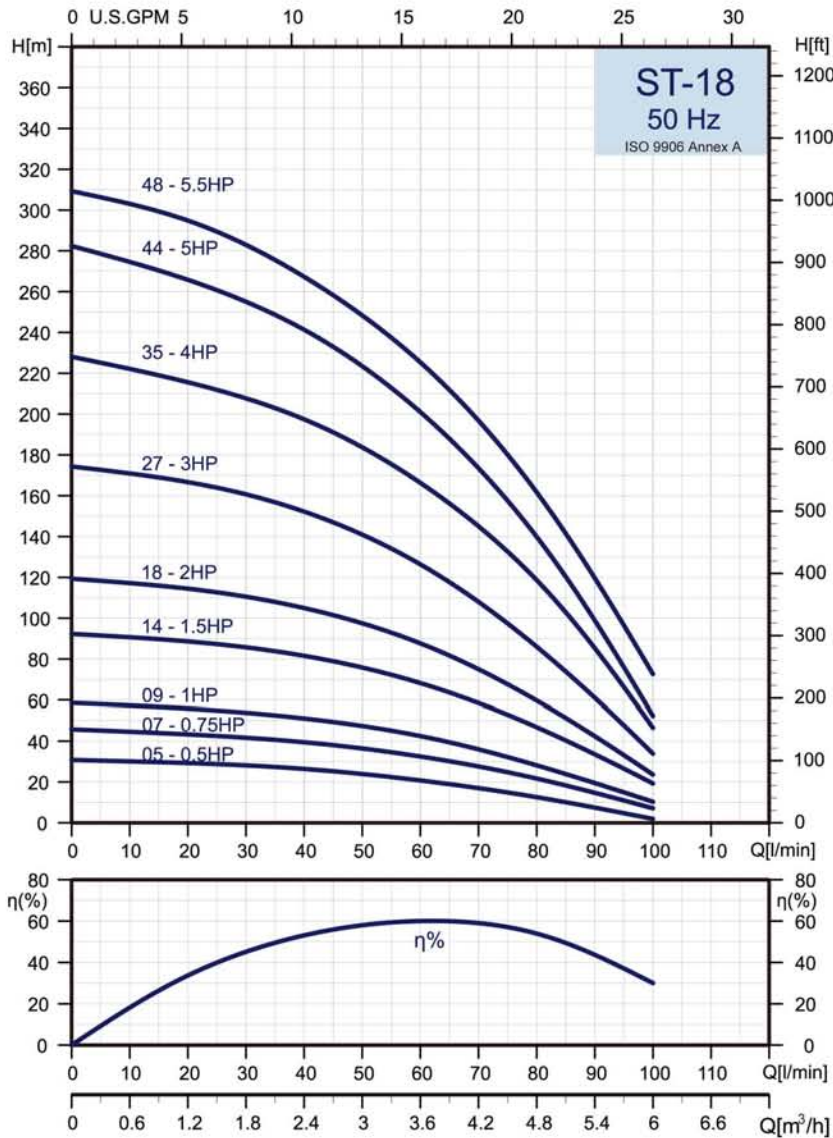
Three Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-1305	236	RP/ NPT 1 1/4"	98	566
ST-1308	289		98	635
ST-1311	342		98	707
ST-1316	430		98	810
ST-1321	519		98	924
ST-1332	749		98	1189

## Selection Chart

PUMP TYPE	STAGES	MOTOR		Q=DELIVERY														PUMP	ELECTRO PUMP	
				KW	HP	H=TOTAL HEAD IN METERS														Net Weight(kg)
		l/min	15			20	25	30	35	40	45	50	60	70	80	PUMP	ELECTRO PUMP			
		0	0.9			1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8					
ST-1305	5	0.37	0.5	34		32	31	30	29	27	25	23	18	11		2.5	9.8	9.2		
ST-1308	8	0.55	0.75	54		51	50	49	46	43	41	38	30	19		2.9	11.1	10.3		
ST-1311	11	0.75	1.0	72		68	66	64	61	58	54	49	38	26		3.4	12.2	11.6		
ST-1316	16	1.1	1.5	106		101	98	95	89	83	77	70	54	33		4.2	14.2	13.1		
ST-1321	21	1.5	2.0	142		135	132	127	122	115	108	100	79	49		5.0	16.5	15.0		
ST-1332	32	2.2	3.0	208		200	194	187	177	165	152	138	104	62		7.1	21.1	18.7		

# Performance Curves

# ST-18



Single Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-1805	257	RP/ NPT 1 1/4"	98	603
ST-1807	301		98	666
ST-1809	344		98	724
ST-1814	452		98	857
ST-1818	538		98	978
ST-1827	767		98	1262
ST-1835	934		98	1541
ST-1844	1128		98	1811
ST-1848	1253		98	1936

Three Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-1805	257	RP/ NPT 1 1/4"	98	587
ST-1807	301		98	647
ST-1809	344		98	709
ST-1814	452		98	832
ST-1818	538		98	943
ST-1827	767		98	1207
ST-1835	934		98	1450
ST-1844	1128		98	N/A
ST-1848	1253		98	1860

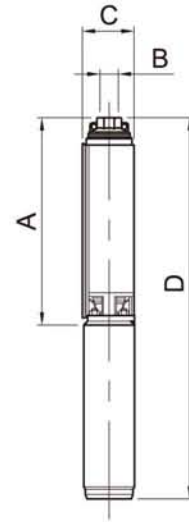
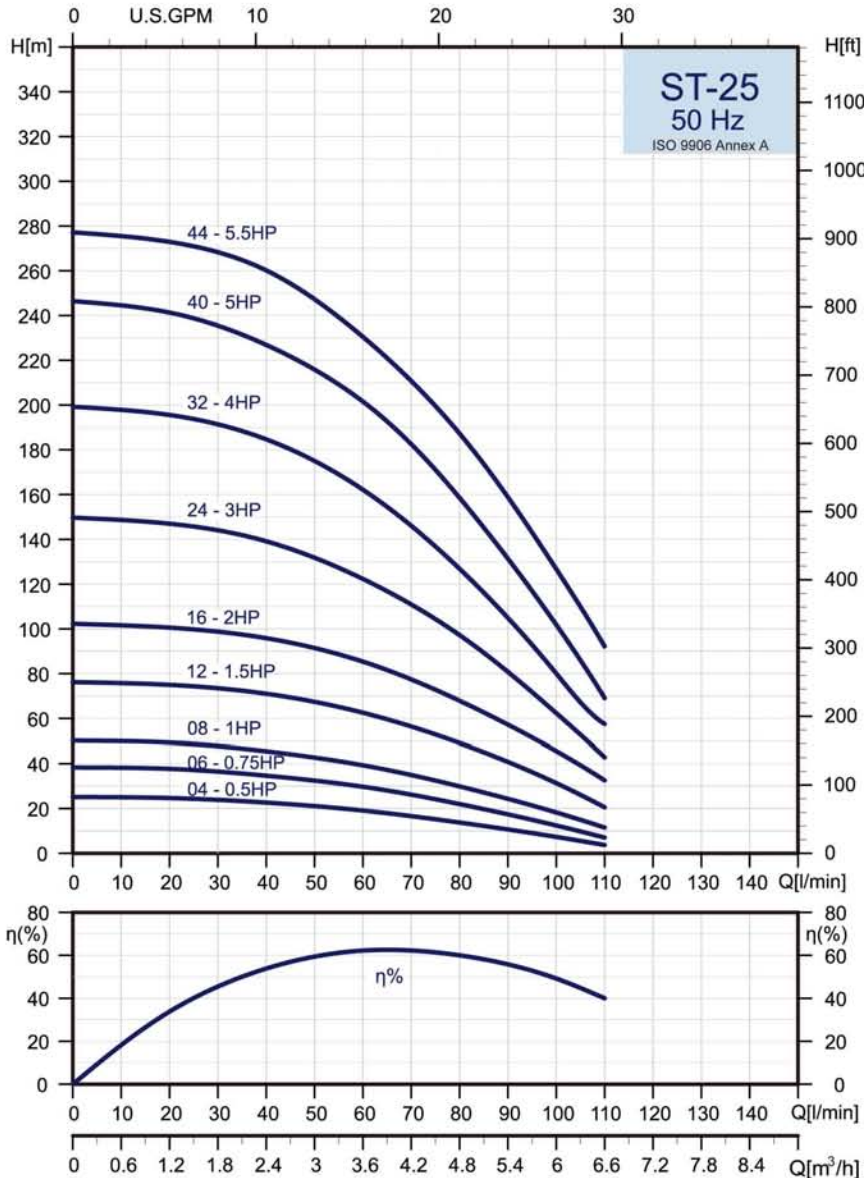
## Selection Chart

PUMP TYPE	STAGES	MOTOR		Q=DELIVERY														PUMP	ELECTRO PUMP	
		KW	HP	l/min	20	25	30	35	40	45	50	60	70	80	90	100	120		Net Weight(kg)	
				m³/h	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0	7.2		Single phase	Three phase
		H=TOTAL HEAD IN METERS																		
ST-1805	5	0.37	0.5	33		29	28	27	26	25	24	21	18	13	8	3		2.7	10.0	9.4
ST-1807	7	0.55	0.75	46		43	42	41	39	38	36	33	28	22	15	7		3.0	11.2	10.4
ST-1809	9	0.75	1.0	59		55	54	52	51	49	47	43	37	28	20	10		3.3	12.1	11.5
ST-1814	14	1.1	1.5	93		87	86	83	81	79	76	68	58	47	33	20		4.1	14.1	13.0
ST-1818	18	1.5	2.0	120		113	111	108	105	102	98	88	75	60	42	25		4.7	16.2	14.7
ST-1827	27	2.2	3.0	175		164	161	157	152	147	141	127	109	87	61	35		6.2	20.2	17.8
ST-1835	35	3.0	4.0	228		212	208	203	197	191	184	166	145	119	85	46		7.9	27.3	23.1
ST-1844	44	3.7	5.0	282		261	255	249	241	233	223	201	173	140	99	52		9.3	32.0	N/A
ST-1848	48	4.0	5.5	309		289	283	276	267	258	248	225	197	162	120	73		9.9	32.7	29.4



# Performance Curves

# ST-25



Single Phase Motor Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-2504	247	RP/ NPT 1 1/2"	98	593
ST-2506	296		98	661
ST-2508	345		98	725
ST-2512	433		98	838
ST-2516	542		98	982
ST-2524	777		98	1272
ST-2532	965		98	1572
ST-2540	1160		98	1843
ST-2544	1296		98	1979

Three Phase Motor Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-2504	247	RP/ NPT 1 1/2"	98	577
ST-2506	296		98	642
ST-2508	345		98	710
ST-2512	433		98	813
ST-2516	542		98	947
ST-2524	777		98	1217
ST-2532	965		98	1481
ST-2540	1160		98	N/A
ST-2544	1296		98	1903

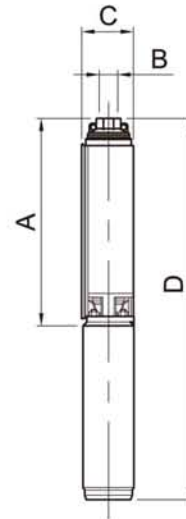
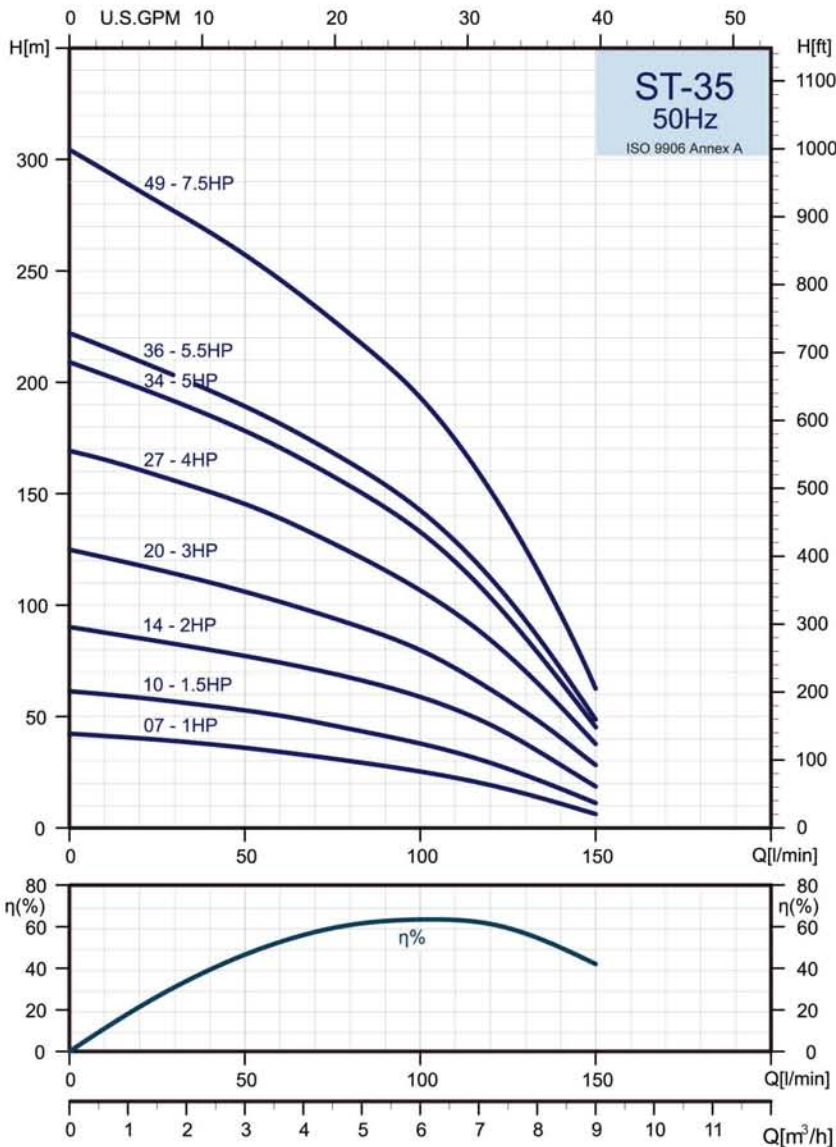
## Selection Chart

PUMP TYPE	STAGES	MOTOR		Q=DELIVERY												PUMP	ELECTRO PUMP	
				KW	HP	H=TOTAL HEAD IN METERS												Net Weight(kg)
														Single phase	Three phase			
ST-2504	4	0.37	0.5	26	30	35	40	45	50	60	70	80	90	100	120	2.4	9.7	9.1
ST-2506	6	0.55	0.75	38	45	51	57	63	70	80	90	100	120	150	180	2.9	11.1	10.3
ST-2508	8	0.75	1.0	51	60	69	77	86	95	105	120	135	150	180	225	3.3	12.1	11.5
ST-2512	12	1.1	1.5	77	90	102	114	127	141	160	180	200	225	270	330	4.1	14.1	13
ST-2516	16	1.5	2.0	102	120	138	156	175	195	220	250	285	330	405	480	5.0	16.5	15
ST-2524	24	2.2	3.0	151	180	207	234	261	288	330	375	435	510	615	720	6.6	20.6	18.2
ST-2532	32	3.0	4.0	203	240	276	312	348	384	450	510	585	690	810	960	8.7	28.1	23.9
ST-2540	40	3.7	5.0	253	300	345	390	435	480	570	645	735	855	1020	1200	10.4	33.1	N/A
ST-2544	44	4.0	5.5	278	330	375	420	465	510	600	675	765	900	1080	1296	11.2	34.0	30.7



# Performance Curves

# ST-35



Single Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-3507	390	RP/ NPT 2"	98	770
ST-3510	483		98	888
ST-3514	607		98	1012
ST-3520	831		98	1326
ST-3527	1048		98	1655
ST-3534	1257		98	1940
ST-3536	1318		98	2001
ST-3549	1802		98	N/A

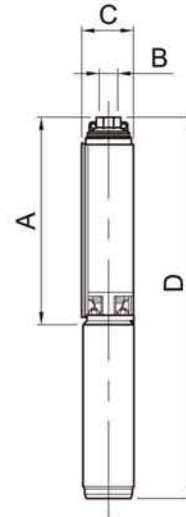
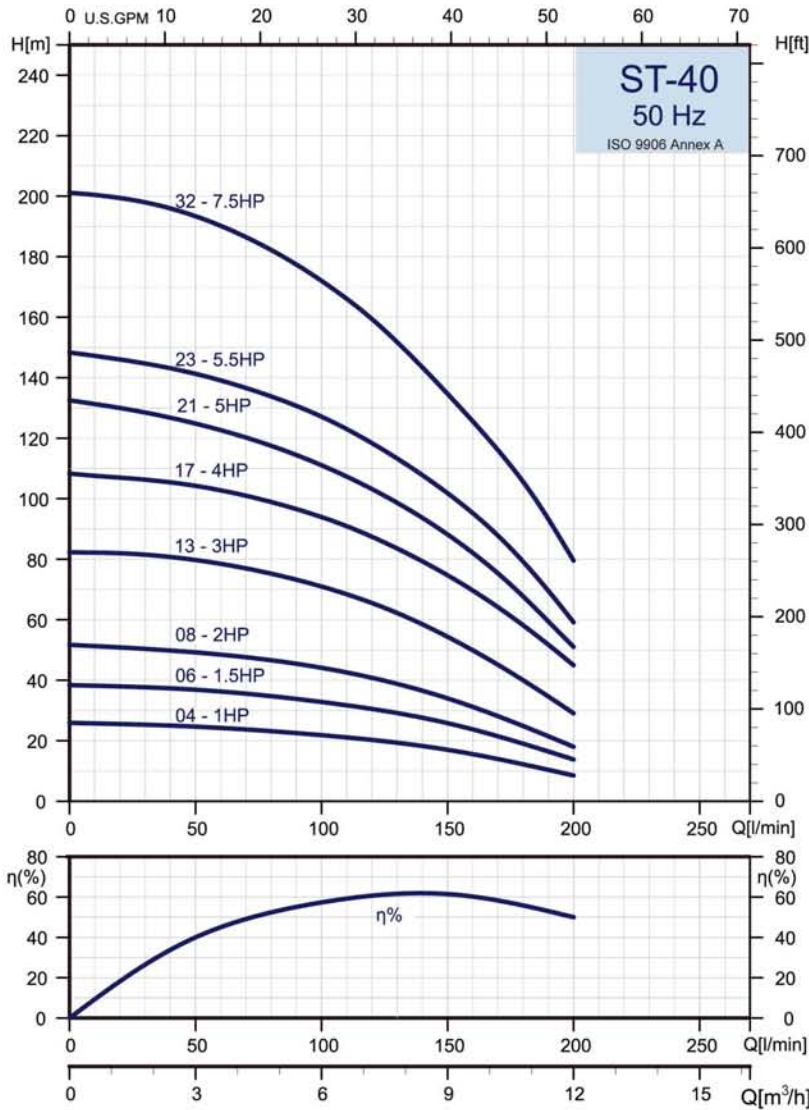
Three Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-3507	390	RP/ NPT 2"	98	755
ST-3510	483		98	863
ST-3514	607		98	1012
ST-3520	831		98	1271
ST-3527	1048		98	1564
ST-3534	1257		98	N/A
ST-3536	1318		98	1925
ST-3549	1802		98	2485

## Selection Chart

PUMP TYPE	STAGES	MOTOR		Q=DELIVERY												PUMP	ELECTRO PUMP	
				l/min	0	45	50	60	70	80	90	100	120	140	160		Net Weight(kg)	
		0	2.7	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4	9.6						
		H=TOTAL HEAD IN METERS																
ST-3507	7	0.75	1.0	42		36	34	32	30	28	25	19	11	3.7	12.5	11.9		
ST-3510	10	1.1	1.5	62		53	51	48	45	41	38	29	18	4.6	14.6	13.5		
ST-3514	14	1.5	2.0	90		77	74	71	68	63	59	46	28	5.7	17.2	15.7		
ST-3520	20	2.2	3.0	125		107	102	97	92	86	80	62	40	7.5	21.5	19.1		
ST-3527	27	3.0	4.0	169		145	139	131	123	115	107	84	55	9.6	29.0	24.8		
ST-3534	34	3.7	5.0	208		178	170	162	153	143	132	103	66	11.6	34.3	N/A		
ST-3536	36	4	5.5	221		190	181	173	164	154	143	112	72	12.2	35.0	27.4		
ST-3549	49	5.5	7.5	302		257	246	234	222	209	193	151	96	15.9	N/A	35.4		

# Performance Curves

# ST-40



Single Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-4004	294	RP/ NPT 2"	98	674
ST-4006	356		98	761
ST-4008	418		98	858
ST-4013	573		98	1068
ST-4017	697		98	1304
ST-4021	859		98	1542
ST-4023	921		98	1604
ST-4032	1238		98	N/A

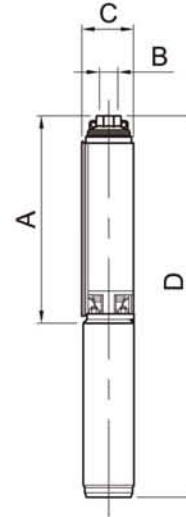
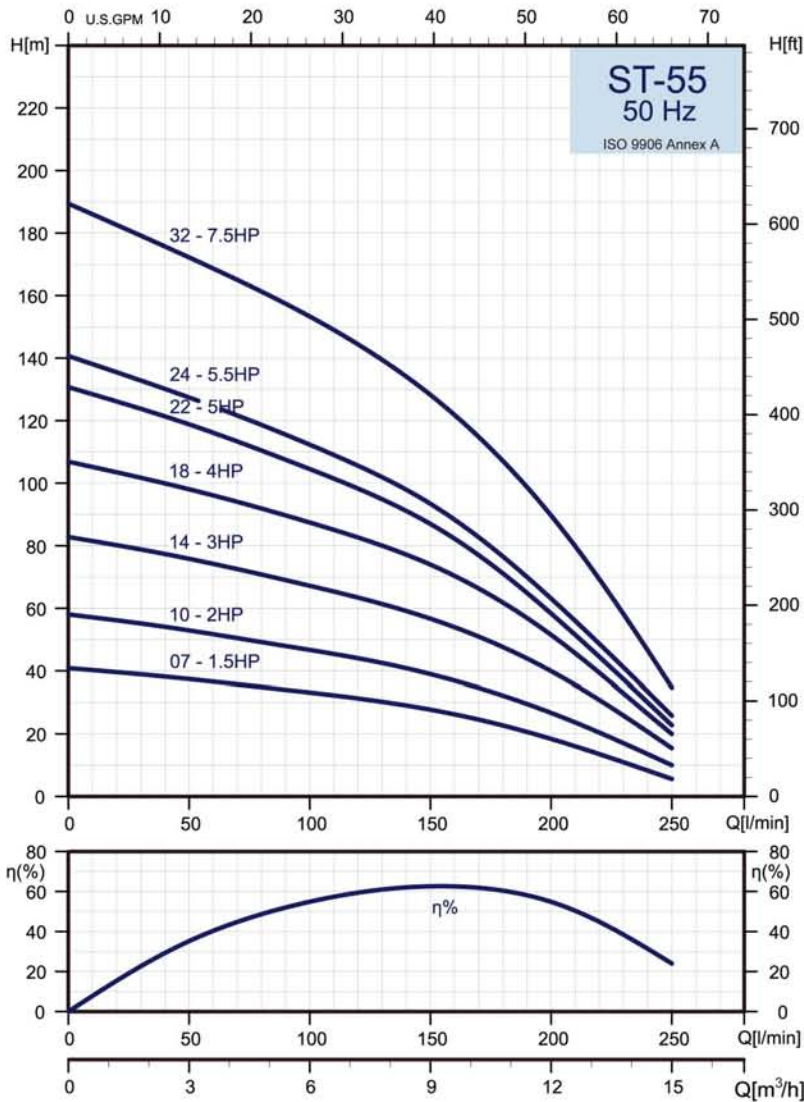
Three Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-4004	294	RP/ NPT 2"	98	659
ST-4006	356		98	736
ST-4008	418		98	823
ST-4013	573		98	1013
ST-4017	697		98	1213
ST-4021	859		98	N/A
ST-4023	921		98	1528
ST-4032	1238		98	1921

## Selection Chart

PUMP TYPE	STAGES	MOTOR		Q=DELIVERY													PUMP	ELECTRO PUMP	
				l/min	70	80	90	100	120	140	160	180	200	220	Net Weight(kg)				
		0	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	13.2	single phase	three phase					
		m³/h	H=TOTAL HEAD IN METERS																
ST-4004	4	0.75	1.0	26		23	22	21	20	18	16	12	9		2.8	11.6	11		
ST-4006	6	1.1	1.5	38		35	34	33	31	28	24	19	14		3.4	13.4	12.3		
ST-4008	8	1.5	2.0	52		47	45	44	41	37	31	25	18		4.0	15.5	14.0		
ST-4013	13	2.2	3.0	82		75	73	71	66	59	50	40	30		5.5	19.5	17.1		
ST-4017	17	3.0	4.0	108		98	96	94	87	79	70	58	46		6.6	26.0	21.8		
ST-4021	21	3.7	5.0	132		117	114	111	103	93	82	68	52		7.8	30.5	N/A		
ST-4023	23	4.0	5.5	148		134	131	127	118	108	95	79	60		8.4	31.2	27.9		
ST-4032	32	5.5	7.5	202		182	178	172	160	143	125	105	80		11.0	N/A	34.1		

# Performance Curves

# ST-55



Single Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-5507	537	RP/ NPT 2"	98	942
ST-5510	693		98	1133
ST-5514	901		98	1496
ST-5518	1147		98	1754
ST-5522	1345		98	2028
ST-5524	1449		98	2132
ST-5532	1866		98	N/A

Three Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-5507	537	RP/ NPT 2"	98	917
ST-5510	693		98	1098
ST-5514	901		98	1341
ST-5518	1147		98	1663
ST-5522	1345		98	N/A
ST-5524	1449		98	2056
ST-5532	1866		98	2549

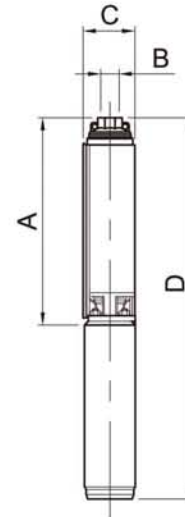
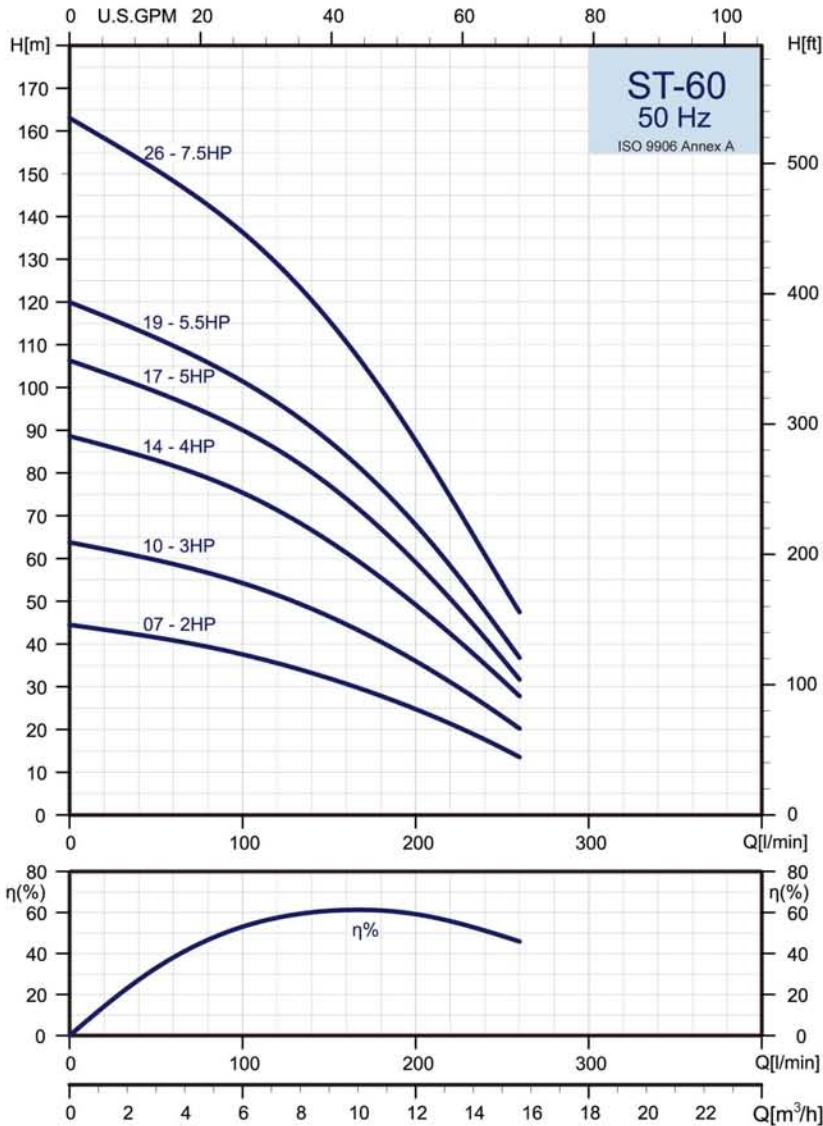
## Selection Chart

PUMP TYPE	STAGES	MOTOR		Q=DELIVERY															PUMP	ELECTRO PUMP	
				l/min	70	80	90	100	120	140	160	180	200	220	240	260	Net Weight(kg)				
		HP	m³/h	0	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6	Single phase	Three phase			
		KW	H=TOTAL HEAD IN METERS																		
ST-5507	7	1.1	1.5	41		35	34	33	32	29	26	23	18	14	8		5.3	15.3	14.2		
ST-5510	10	1.5	2.0	58		49	48	47	44	41	37	32	27	20	13		6.7	18.2	16.7		
ST-5514	14	2.2	3.0	83		71	69	67	63	58	54	48	40	31	20		8.5	22.5	20.1		
ST-5518	18	3.0	4.0	107		92	90	87	83	77	70	62	52	39	26		10.4	29.8	25.6		
ST-5522	22	3.7	5.0	131		110	107	104	98	91	82	71	58	45	30		12.3	35.0	N/A		
ST-5524	24	4.0	5.5	141		118	116	113	106	97	88	77	63	49	33		13.2	36.0	32.7		
ST-5532	32	5.5	7.5	189		162	157	153	144	134	122	107	90	70	47		17	N/A	40.1		



# Performance Curves

# ST-60



Single Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-6007	534	RP/ NPT 2"	98	974
ST-6010	690		98	1185
ST-6014	989		98	1596
ST-6017	1092		98	1775
ST-6019	1195		98	1878
ST-6026	1559		98	N/A

Three Phase Motor				
Dimensions and Weights				
Pump Type	Dimensions(mm)			
	A	B	C	D
ST-6007	534	RP/ NPT 2"	98	939
ST-6010	690		98	1130
ST-6014	989		98	1505
ST-6017	1092		98	N/A
ST-6019	1195		98	1802
ST-6026	1559		98	2242

## Selection Chart

PUMP TYPE	STAGES	MOTOR		Q=DELIVERY												PUMP	ELECTRO PUMP	
				H=TOTAL HEAD IN METERS													Single phase	Three phase
		KW	HP	l/min	90	100	120	140	160	180	200	220	240	260	280	Net Weight(kg)		
				m³/h	0	5.4	6.0	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6	16.8		
ST-6007	7	1.5	2.0	45		37	36	33	31	28	25	22	18	14		5.3	16.8	15.3
ST-6010	10	2.2	3.0	64		54	52	48	44	41	36	32	26	20		6.7	20.7	18.3
ST-6014	14	3.0	4.0	89		76	72	67	62	56	49	43	35	28		8.6	28.0	23.8
ST-6017	17	3.7	5.0	107		90	86	80	74	67	59	51	42	32		10.1	32.8	N/A
ST-6019	19	4.0	5.5	120		102	97	91	89	76	68	58	48	37		11.0	33.8	30.5
ST-6026	26	5.5	7.5	163		136	129	120	111	100	87	75	61	48		14.3	N/A	37.4





# General Selection

# ST series

Selection Chart																			
PUMP TYPE	STAGES	MOTOR		Q=DELIVERY															
				l/min	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100
		m <sup>3</sup> /h	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0		
		H=TOTAL HEAD IN METERS																	
ST-0510	10	0.37	0.5	67	63	55	46	33	18										
ST-0513	13	0.37	0.5	86	78	70	56	42	23										
ST-0519	19	0.55	0.75	126	118	105	86	60	30										
ST-0526	26	0.75	1	173	160	141	117	81	39										
ST-0538	38	1.1	1.5	253	234	208	169	117	52										
ST-0710	10	0.37	0.5	63		57	53	47	42	35	27	18							
ST-0715	15	0.55	0.75	95		86	78	72	63	53	41	28							
ST-0720	20	0.75	1.0	127		115	107	96	84	71	56	40							
ST-0730	30	1.1	1.5	195		183	171	156	138	117	94	69							
ST-0734	34	1.5	2.0	222		207	194	175	154	130	104	76							
ST-0736	36	1.5	2.0	234		217	203	185	164	138	110	80							
ST-1005	5	0.37	0.5	34			32	31	29	27	25	23	19	16					
ST-1007	7	0.37	0.5	46			43	42	39	36	33	29	26	22					
ST-1010	10	0.55	0.75	67			64	61	58	54	49	43	36	28					
ST-1014	14	0.75	1.0	92			86	83	79	74	67	60	52	42					
ST-1020	20	1.1	1.5	139			131	127	120	111	101	90	75	60					
ST-1305	5	0.37	0.5	34				32	31	30	29	27	25	23	18	11			
ST-1308	8	0.55	0.75	54				51	50	49	46	43	41	38	30	19			
ST-1311	11	0.75	1.0	72				68	66	64	61	58	54	49	38	26			
ST-1316	16	1.1	1.5	106				101	98	95	89	83	77	70	54	33			
ST-1321	21	1.5	2.0	142				135	132	127	122	115	108	100	79	49			
ST-1332	32	2.2	3.0	208				200	194	187	177	165	152	138	104	62			
ST-1805	5	0.37	0.5	33					29	28	27	26	25	24	21	18	13	8	3
ST-1807	7	0.55	0.75	46					43	42	41	39	38	36	33	28	22	15	7
ST-1809	9	0.75	1.0	59					55	54	52	51	49	47	43	37	28	20	10
ST-1814	14	1.1	1.5	93					87	86	83	81	79	76	68	58	47	33	20
ST-1818	18	1.5	2.0	120					113	111	108	105	102	98	88	75	60	42	25
ST-1827	27	2.2	3.0	175					164	161	157	152	147	141	127	109	87	61	35
ST-1835	35	3.0	4.0	228					212	208	203	197	191	184	166	145	119	85	46
ST-1844	44	3.7	5.0	282					261	255	249	241	233	223	201	173	140	99	52
ST-1848	48	4.0	5.5	309					289	283	276	267	258	248	225	197	162	120	73
ST-2504	4	0.37	0.5	26							23	22	22	21	19	17	14	11	7
ST-2506	6	0.55	0.75	38							36	35	33	32	30	26	22	18	12
ST-2508	8	0.75	1.0	51							47	46	44	43	39	35	30	24	18
ST-2512	12	1.1	1.5	77							72	71	69	68	63	57	49	41	31
ST-2516	16	1.5	2.0	102							98	96	94	92	86	77	68	57	46
ST-2524	24	2.2	3.0	151							142	139	136	132	122	111	97	80	62
ST-2532	32	3.0	4.0	203							188	185	180	175	162	146	127	105	80
ST-2540	40	3.7	5.0	253							232	227	222	216	202	182	159	131	102
ST-2544	44	4.0	5.5	278							265	260	254	247	230	210	187	159	127







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