E-Tech®

by Franklin Electric

SUBMERSIBLE PUMPS 4"

50Hz



INDEX

VS Series Stainless Steel Submersible Pumps for 6" deep wells and larger 4
General Product Curves 4" 5
Material Table 4" 5

Table of Hydraulic Performance
VS 1. 6
VS 2. 6
VS 3. 6
VS 4. 6
VS 6. 6
VS 8. 6
VS 9. 7
VS 10. 7
VS 15. 7

Technical Data and Performance Curves 50Hz
VS 1. 10
VS 2. 12
VS 3. 14
VS 4. 16
VS 6. 18
VS 8. 20
VS 9. 22
VS 10. 24
VS 15. 26

Section and list of main components
VS 1 - 2 - 3 - 4 - 6 - 8 - 9 28
VS 10 - 15 29

Submersible Motors Product
4" Encapsulated Motors - 4" Super Stainless 3 Phase 32

Accessories
Motor Control - Submonitor Motor Protection 36
Motor Control - SubStartSC® Single phase Submersible Motor Starter 37
Termination Kit 4" 38
Double Plug Lead for Termination Kit 38
Corrosion Protection 4" 38
Motor Filling Kit 38
Surge Arrestor 38

VS Series Stainless Steel Submersible Pumps for 4" deep wells and larger

Characteristics and Hydraulic Performances

50 Hz

APPLICATIONS

- Municipal water works, fountains and wast water
- Water distribution and pressure boosting
- Irrigation and sprinkler systems, water treatment plants, filtration and reverse osmosis
- Industrial cooling and processing
- Mining industry, drainage and dewatering
- Fire-fighting equipment
- Water supply to and from tanks, reservoir and wells
- Lifting and distribution of a wide range of liquids
- Autoclave and cistern charge and discharge
- Turf and landscape
- Greenhouses and nurseries
- Residential and farm wells and drainage
- Marine and off shore platforms
- Food industry
- General industry

FEATURES

- Compact, reliable and suited to operate in horizontal position
- Built-in check valve to protect the pump against water hummer risk
- The hydraulic design is such to enhance the overall efficiency thus reducing energy consumption and making the pumping systems more cost effective

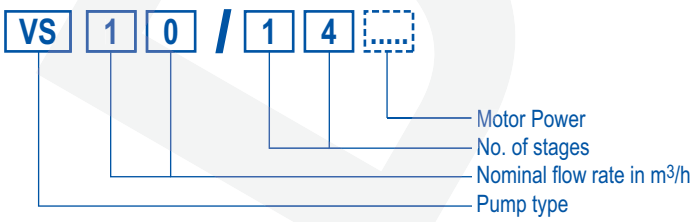
SPECIFICATIONS

- Capacities up to 20 m³/h at 50Hz
- Liquid being pomped: Chemically and mechanically non aggressive
- Water temperature range: from 0°C to 40°C
- Maximum allowable amount of sand 25 gr/m³, solid dimension max 2mm
- Maximum pump diameter (Including cable guard): 95mm
- Outlet diameter: 1 ¼" VS1-2-3-4-6-8-9-10, 2" VS15
- Maximum depth of application: Up to 400 m below the water level
- 40 Bar (400 m) at 50Hz
- Construction and safety standards:
  TS 11146:1993 - TS EN 809:2000 - 98/37/EC - TS EN ISO 12100-1:2007 - TS EN ISO 12100-2:2006
- Rotation: counter clockwise when looking into the discharge
- Motor adapter in compliance with NEMA standard
- Pump can work continuously in vertical or horizontal position
- Motors: see section Submersible Motors Product Overview

AVAILABLE OPTIONS

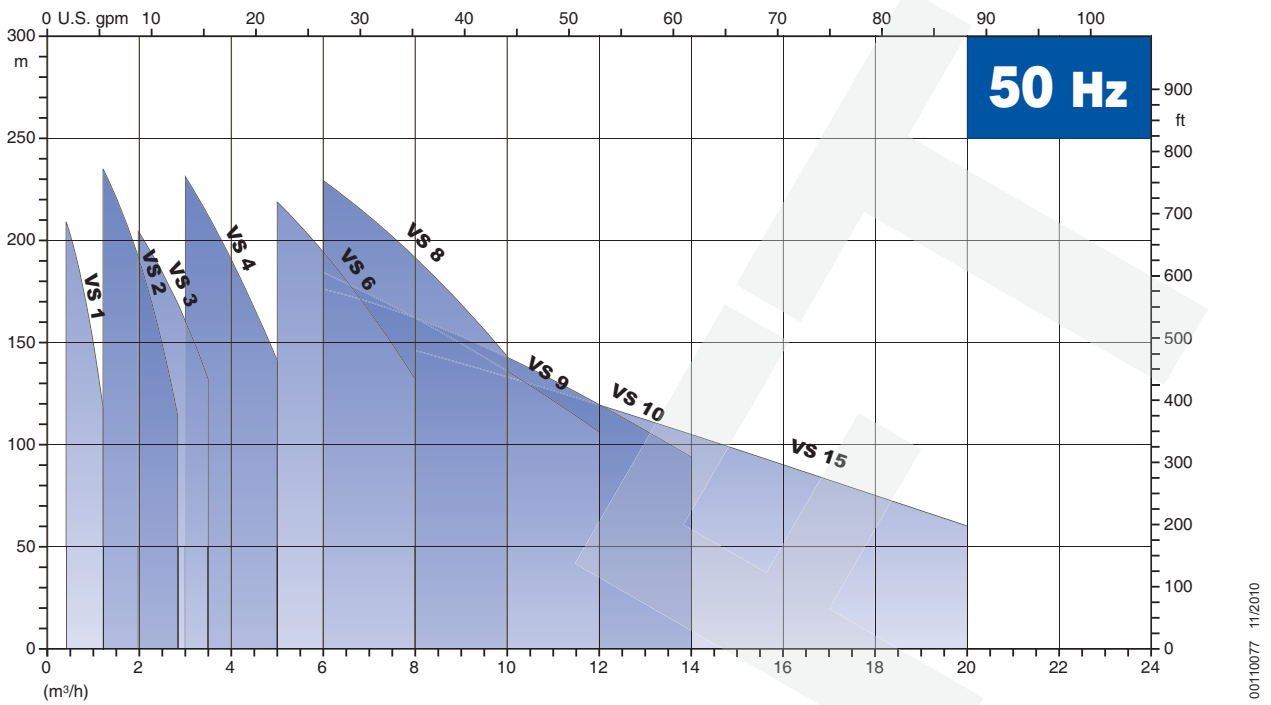
- Suction End and Valve Body (only for models VS1-2-3-4-6)
- BRASS or THECNOPLAST
- Motor-pump : Cooling shroud, Suction shroud

PUMP IDENTIFICATION CODE



00117028 10/2010

DRAFT



MATERIAL IN CONTACT WITH THE LIQUID				
Pos.	**PARTS DESCRIPTIONS**		**MATERIAL**	
		Type	**AISI**	**DIN / EN**
1	**Shaft**	Stainless steel	304	1.4301
2	**Retainer**	Stainless steel	304	1.4301
3	**Coupling**	Stainless steel	420	
4	**Suction End**	Bronze	Gz-Rg5	
5	**Body**	Stainless steel	304	1.4301
6	**Impeller**	Polycarbonate		
7	**Diffuser**	Noryl		
8	**Bearing**	Resine		
9	**Bearing Housing**	Resine		
10	**Bearing**	Resine		
11	**Bushing**	Polycarbonate		
12	**Bushing**	Stainless steel	420	
13	**Screw**	Stainless steel	304	1.4301
14	**Washer**	Stainless steel	304	1.4301
15	**Valve Housing**	Resine		
16	**O-ring**	Rubber		
17	**Valve**	Resine		
18	**Valve Body 11 TPI**	Bronze	Gz-Rg5	
19	**Housing**	Stainless steel	304	1.4301
20	**Strainer**	Stainless steel	304	1.4301
21	**Cable Guard**	Stainless steel	304	1.4301

DRAFT

VS1/2/3/4
TABLE OF HYDRAULIC PERFORMANCES AT 50Hz

PUMP TYPE	RATED POWER		Q = DELIVERY																		
			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	4,2	4,8	5,4	6,0	7,0
			l/sec	0	0,08	0,17	0,25	0,33	0,42	0,50	0,58	0,67	0,75	0,83	0,92	1,00	1,17	1,33	1,50	1,67	1,94
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER [m]																		
VS 1/10	0,37	0,5		68	60	53	45	36	18	2											
VS 1/13	0,37	0,5		82	71	63	54	39	20	3											
VS 1/19	0,55	0,75		118	104	94	80	58	30	5											
VS 1/26	0,75	1		156	142	126	103	77	40	7											
VS 1/38	1,1	1,5		241	215	194	160	119	62	9											
VS 2/5	0,37	0,5		34				33	31	29	27	24	20	15	10	4					
VS 2/7	0,37	0,5		45				43	41	38	34	30	25	19	12,6	6,6					
VS 2/10	0,55	0,75		62				60	56	51	45	39	32	25	17	10					
VS 2/14	0,75	1		88				80	75	69	60	51	41	30	22	14					
VS 2/20	1,1	1,5		125				119	110	101	89	76	59	42	30	17					
VS 2/27	1,5	2		176				169	157	145	129	113	91	64	39	20					
VS 2/39	2,2	3		244				234	217	200	177	154	124	91	56	23					
VS 3/4	0,37	0,5		30				27	26	25	24	23	21	20	18	16	12				
VS 3/7	0,55	0,75		50				47	45	43	41	39	36	33	30	27	19				
VS 3/10	0,75	1		68				62	60	58	55	53	48	44	39	35	23				
VS 3/15	1,1	1,5		100				91	89	85	80	75	70	63	57	50	33				
VS 3/20	1,5	2		133				121	118	112	106	100	93	84	75	66	44				
VS 3/30	2,2	3		199				183	174	169	160	151	138	125	110	98	67				
VS 3/37	3	4		245				225	219	211	202	186	174	157	139	126	81				
VS 4/4	0,39	0,5		26						23	23	22	22	21	20	19	18	15	12	8	
VS 4/7	0,55	0,75		44						40	39	38	36	35	33	32	28	23	17	11	
VS 4/10	0,75	1		65						59	58	56	54	52	50	47	42	35	27	18	
VS 4/14	1,1	1,5		92						84	82	80	77	75	71	69	61	51	39	25	
VS 4/18	1,5	2		119						109	107	104	100	97	93	90	79	66	51	33	
VS 4/27	2,2	3		179						164	160	154	151	145	140	133	115	99	78	54	
VS 4/32	3	4		211						197	192	186	181	173	167	159	141	118	93	66	
VS 4/40	3,7	5		268						246	239	232	225	215	206	195	168	138	103	71	
VS 4/44	4	5,5		292						272	265	256	247	238	226	214	184	150	120	85	

VS 6/8
TABLE OF HYDRAULIC PERFORMANCES AT 50Hz

PUMP TYPE	RATED POWER		Q = DELIVERY																		
			m³/h	0	2,7	3,0	3,3	3,6	4,2	4,8	5,4	6,0	7,0	7,2	8,0	8,4	9,0	9,6	10,1	10,8	12,0
			l/sec	0	0,75	0,83	0,92	1,00	1,17	1,33	1,50	1,67	1,94	2,00	2,22	2,33	2,50	2,67	2,81	3,00	3,33
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER [m]																		
VS 6/6	0,75	1		35	33	33	32	32	31	30	29	27	23	23	19	16	13				
VS 6/9	1,1	1,5		52	48	48	47	47	45	43	41	38	33	32	26	21	18				
VS 6/13	1,5	2		78	74	73	73	72	71	68	65	62	55	53	45	37	31				
VS 6/19	2,2	3		109	103	102	102	100	98	94	89	83	73	70	60	51	41				
VS 6/26	3	4		151	142	141	139	138	133	125	118	108	93	89	74	64	48				
VS 6/31	3,7	5		185	173	172	170	167	160	152	141	130	112	109	90	78	56				
VS 6/34	4	5,5		201	188	187	185	183	176	165	154	139	120	116	95	84	64				
VS 6/45	5,5	7,5		268	253	252	249	247	237	225	212	192	161	154	129	117	99				
VS 8/4	0,75	1		25				24	24	23	23	22	20	20	18	17	15	14	12	10	8
VS 8/6	1,1	1,5		38				36	36	35	34	33	31	30	27	26	24	21	19	15	10
VS 8/9	1,5	2		57				54	53	52	51	49	45	44	41	39	35	31	28	24	15
VS 8/14	2,2	3		88				84	83	81	79	75	70	68	63	59	53	47	42	36	22
VS 8/18	3	4		113				108	106	104	101	98	90	88	81	77	69	63	57	47	32
VS 8/21	3,7	5		134				130	128	126	122	117	109	106	99	95	88	80	70	60	39
VS 8/23	4	5,5		146				142	139	137	132	125	115	114	105	100	92	83	75	63	41
VS 8/32	5,5	7,5		201				197	194	189	181	173	158	156	142	142	129	116	105	91	59
VS 8/42	7,5	10		266				259	254	247	239	229	210	206	186	185	164	157	140	119	82

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

VS 9
TABLE OF HYDRAULIC PERFORMANCES AT 50Hz

PUMP TYPE	RATED POWER		Q = DELIVERY																	
			m³/h	0	4,8	5,4	6,0	7,0	7,2	8,0	8,4	9,0	9,6	10,1	10,8	12,0	13,0	13,2	14,0	14,4	15,6
			l/sec	0	1,33	1,50	1,67	1,94	2,00	2,22	2,33	2,50	2,67	2,81	3,00	3,33	3,61	3,67	3,89	4,00	4,33
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER [m]																	
VS 9/7	1,1	1,5		40	36	35	34	33	32	31	29	28	26	24	22	18	16	15	13	12	
VS 9/10	1,5	2		56	51	50	48	46	45	43	41	39	37	35	32	27	23	22	19	17	
VS 9/14	2,2	3		78	71	69	68	65	64	60	57	54	51	48	44	37	31	30	26	24	
VS 9/17	3	4		96	87	85	83	79	79	75	72	67	64	60	55	46	39	38	33	30	
VS 9/20	3,7	5		116	107	105	102	97	96	91	89	83	80	75	69	58	50	49	42	39	
VS 9/22	4	5,5		126	115	113	110	105	103	98	95	89	84	80	73	62	54	53	44	40	
VS 9/28	5,5	7,5		165	154	150	145	138	136	131	124	121	117	111	102	90	79	78	68	64	
VS 9/35	8	10		210	195	189	184	175	173	165	164	156	148	141	132	116	103	100	90	85	

VS 10
TABLE OF HYDRAULIC PERFORMANCES AT 50Hz

PUMP TYPE	RATED POWER		Q = DELIVERY																		
			m³/h	0	6,0	7,0	7,2	8,0	8,4	9,0	9,6	10,1	10,8	12,0	13,0	13,2	14,0	14,4	15,6	16,0	17,0
			l/sec	0	1,67	1,94	2,00	2,22	2,33	2,50	2,67	2,81	3,00	3,33	3,61	3,67	3,89	4,00	4,33	4,44	4,72
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER [m]																		
VS 10/5	1,1	1,5		30	26	25	25	24	23	22	21	20	18	16	13	13	12	11	9	8	5
VS 10/7	1,5	2		42	37	35	35	33	32	31	30	28	27	23	20	19	17	16	12	11	7
VS 10/11	2,2	3		64	57	54	53	51	49	47	45	43	40	34	30	29	25	23	18	16	11
VS 10/14	3	4		82	73	70	69	66	64	61	59	57	53	46	39	39	34	31	25	22	15
VS 10/17	3,7	5		101	92	88	87	84	81	79	75	73	68	59	52	51	46	42	36	32	23
VS 10/18	4	5,5		107	97	93	93	89	87	83	80	77	72	63	56	55	49	45	39	35	26
VS 10/25	5,5	7,5		150	134	129	128	123	122	117	113	108	103	89	80	79	70	67	55	50	38
VS 10/32	7,5	10		194	175	168	167	160	160	152	148	142	133	118	105	105	92	90	75	66	53

VS 15
TABLE OF HYDRAULIC PERFORMANCES AT 50Hz

PUMP TYPE	RATED POWER		Q = DELIVERY																		
			m³/h	0	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
			l/sec	0	2,5	2,8	3,1	3,3	3,6	3,9	4,2	4,4	4,7	5,0	5,3	5,6	5,8	6,1	6,4	6,7	7,0
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER [m]																		
VS 15/8	2,2	3		46	34	33	31	30	28	26	25	23	22	20	18	16	14	12	10	7	
VS 15/10	3	4		57	43	41	39	37	35	33	31	30	28	26	23	21	19	16	13	10	
VS 15/11	3	4		63	48	45	43	41	39	37	35	33	30	28	26	24	21	18	15	11	
VS 15/12	3	4		69	56	52	48	46	43	41	39	37	35	33	30	27	24	20	16	12	
VS 15/13	4	5,5		75	61	56	53	50	47	45	42	40	38	36	33	30	26	22	18	13	
VS 15/15	4	5,5		87	72	66	61	58	55	52	49	47	45	42	39	35	31	26	21	15	
VS 15/16	4	5,5		93	77	70	65	61	58	55	53	50	47	44	41	37	33	28	22	16	
VS 15/20	5,5	7,5		121	98	92	86	81	76	71	67	62	58	54	50	45	40	34	27	18	
VS 15/21	5,5	7,5		127	103	97	91	85	80	75	70	66	61	57	52	48	42	36	28	19	
VS 15/28	7,5	10		165	130	121	112	105	98	92	86	80	74	68	62	56	49	42	34	25	

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

VS Series Stainless Steel Submersible Pumps for 4" deep wells and larger

Technical Data and Performance Curves

50 Hz

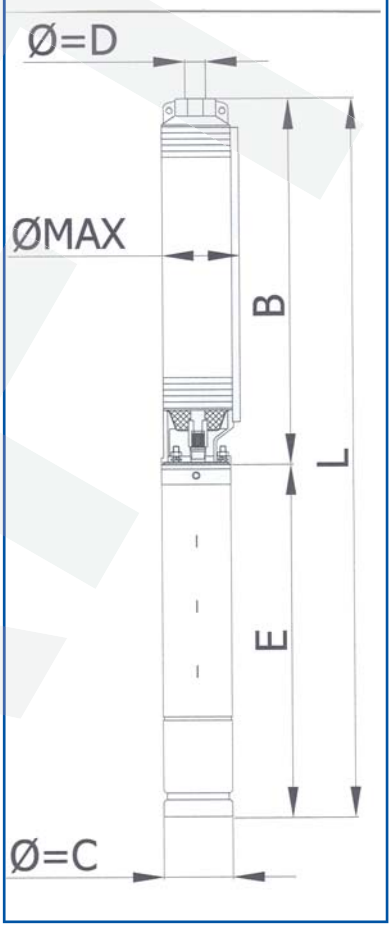
VS 1

Technical data 50Hz

Pumps with Encapsulated Motor

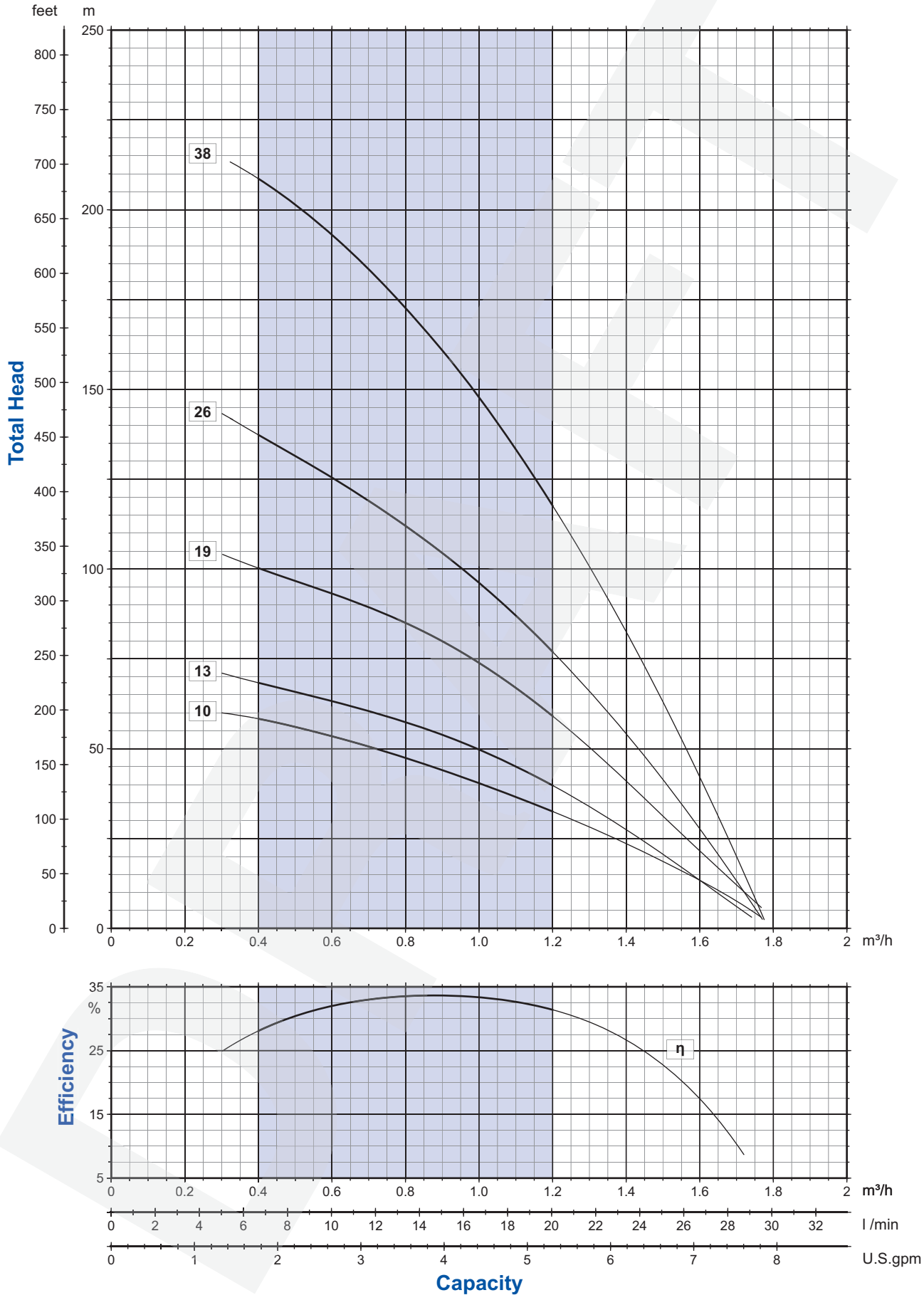
Pump model type	Motor			Dimensions [mm]								Weight [Kg]				
	Type	kW	HP	L 1~	L 3~	E 1~	E 3~	B	$Ø_C$	$Ø_D$	$Ø_{MAX}$	1~ Motor	3~ Motor	Pump	1~ Total	3~ Total
VS 1/10	E4	0,37	0,5	610	610	242	242	368	93	1 ¼"	95	8,6	8,2	4,0	12,6	12,2
VS 1/13	E4	0,37	0,5	662	662	242	242	420	93	1 ¼"	95	8,6	8,2	4,5	13,1	12,7
VS 1/19	E4	0,55	0,75	798	798	270	270	528	93	1 ¼"	95	9,5	9,5	5,6	15,1	15,1
VS 1/26	E4	0,75	1	978	978	298	298	680	93	1 ¼"	95	10,9	10,9	7,4	18,3	18,3
VS 1/38	E4	1,1	1,5	1370	1323	449	402	921	93	1 ¼"	95	17,3	15,0	10,0	27,3	25,0

Dimensions



DRAFT

Performance curves 50Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

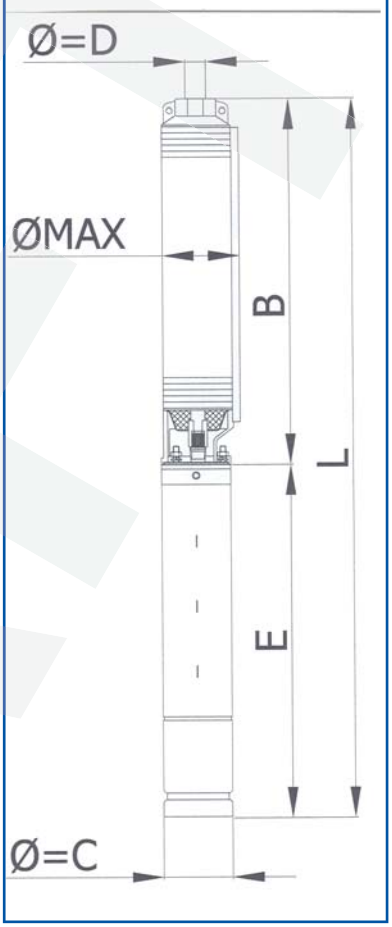
VS 2

Technical data 50Hz

Pumps with Encapsulated Motor

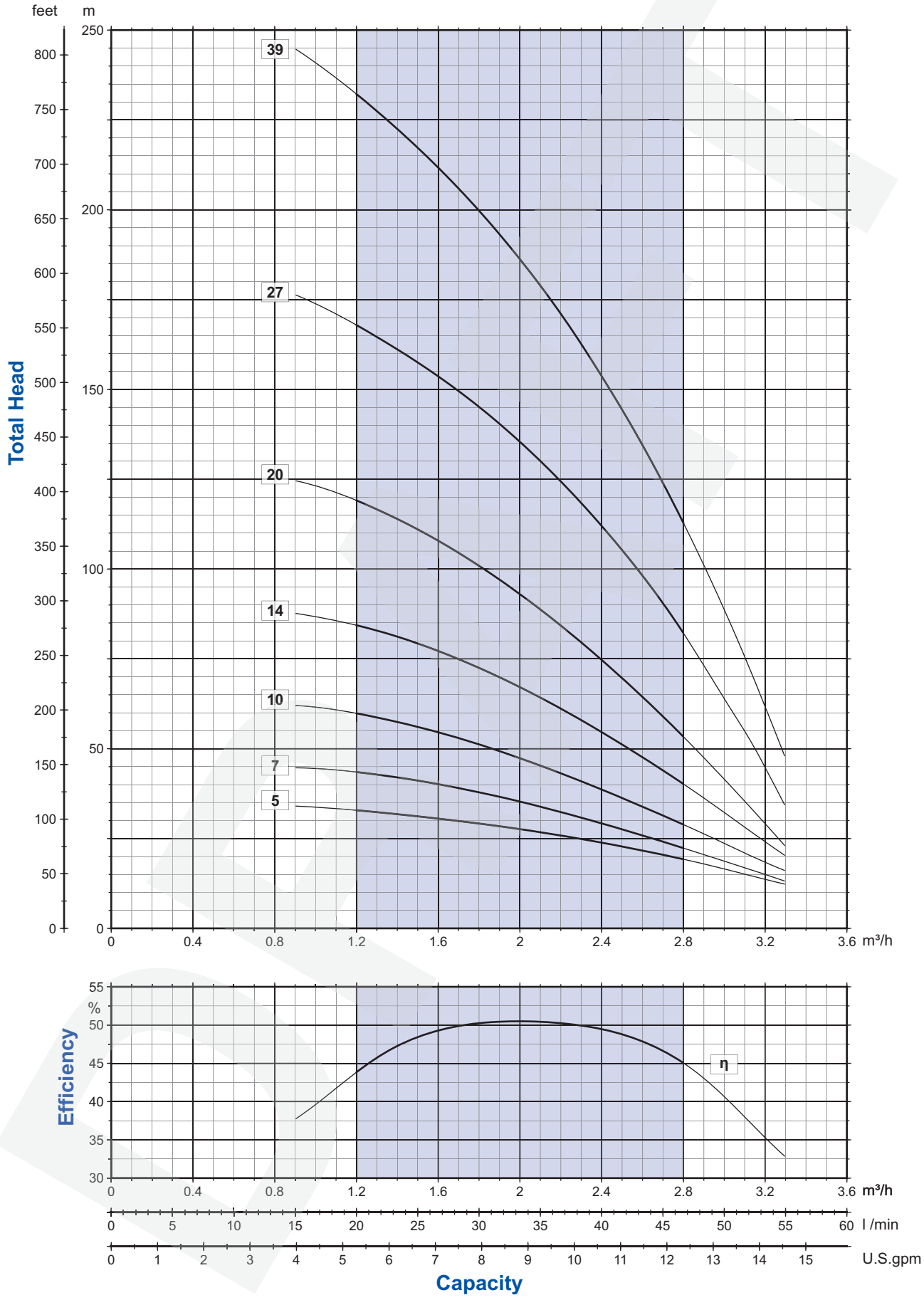
Pump model type	Motor			Dimensions [mm]								Weight [Kg]				
	Type	kW	HP	L 1~	L 3~	E 1~	E 3~	B	$Ø_C$	$Ø_D$	$Ø_{MAX}$	1~ Motor	3~ Motor	Pump	1~ Total	3~ Total
VS 2/5	E4	0,37	0,5	520	520	242	242	278	93	1 ¼"	95	8,6	8,2	3,0	11,6	11,2
VS 2/7	E4	0,37	0,5	556	556	242	242	314	93	1 ¼"	95	8,6	8,2	3,4	12,0	11,6
VS 2/10	E4	0,55	0,75	637	637	270	270	367	93	1 ¼"	95	9,5	9,5	4,0	13,5	13,5
VS 2/14	E4	0,75	1	736	736	298	298	438	93	1 ¼"	95	10,9	10,9	4,6	15,5	15,5
VS 2/20	E4	1,1	1,5	991	944	449	402	542	93	1 ¼"	95	11,6	17,3	15,0	26,6	32,3
VS 2/27	E4	1,5	2	1173	1144	487	449	695	93	1 ¼"	95	13,5	19,5	17,3	30,8	36,8
VS 2/39	E4	2,2	3	1498	1421	564	487	934	93	1 ¼"	95	14,7	25,0	19,5	34,2	44,5

Dimensions



DRAFT

Performance curves 50Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

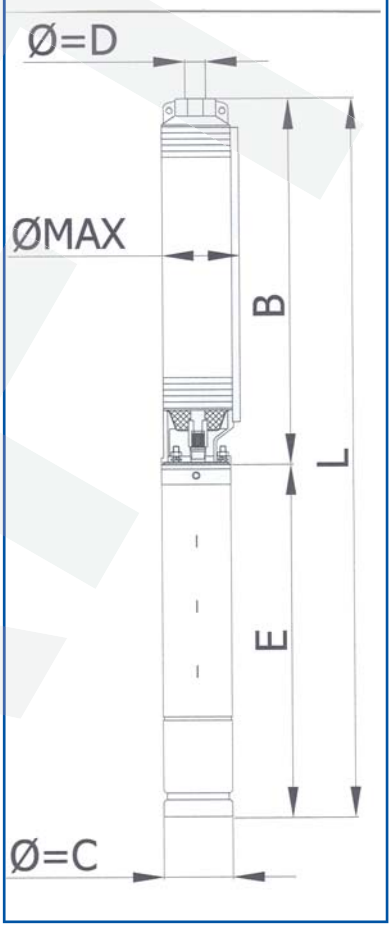
VS 3

Technical data 50Hz

Pumps with Encapsulated Motor

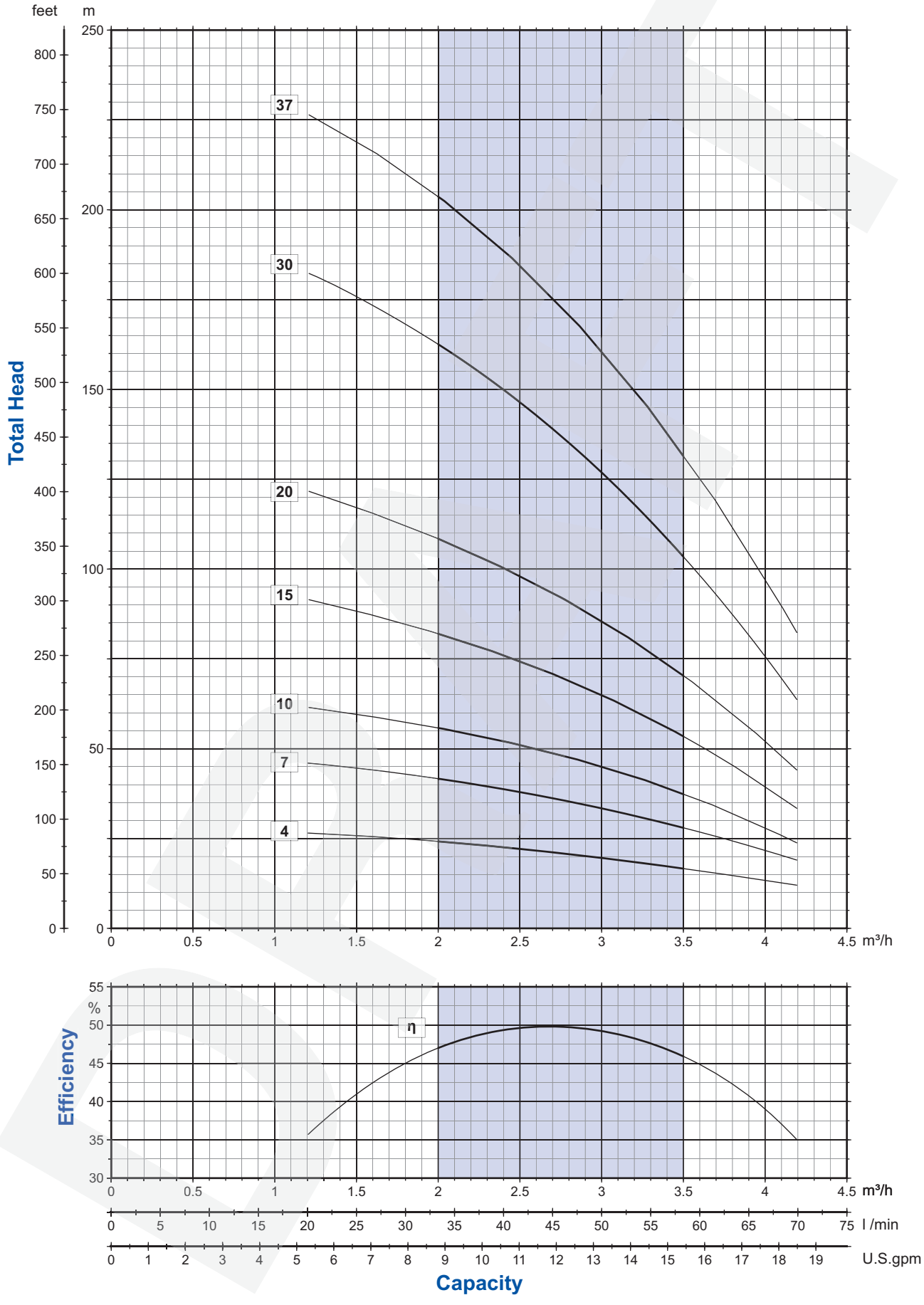
Pump model type	Motor			Dimensions [mm]								Weight [Kg]				
	Type	kW	HP	L 1~	L 3~	E 1~	E 3~	B	$Ø_C$	$Ø_D$	$Ø_{MAX}$	1~ Motor	3~ Motor	Pump	1~ Total	3~ Total
VS 3/4	E4	0,37	0,5	519	519	242	242	277	93	1 ¼"	95	8,6	8,2	2,9	11,5	11,1
VS 3/7	E4	0,55	0,75	613	613	270	270	343	93	1 ¼"	95	9,5	9,5	3,5	13,0	13,0
VS 3/10	E4	0,75	1	708	708	298	298	410	93	1 ¼"	95	10,9	10,9	4,2	15,1	15,1
VS 3/15	E4	1,1	1,5	967	920	449	402	518	93	1 ¼"	95	17,3	15,0	5,0	22,3	20,0
VS 3/20	E4	1,5	2	1115	1077	487	449	628	93	1 ¼"	95	19,5	17,3	6,0	25,5	23,3
VS 3/30	E4	2,2	3	1440	1363	564	487	876	93	1 ¼"	95	25,0	19,5	8,6	33,6	28,1
VS 3/37	E4	3	4	-	1624	-	564	1060	93	1 ¼"	95	-	25,0	10,2	-	35,5

Dimensions



DRAFT

Performance curves 50Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

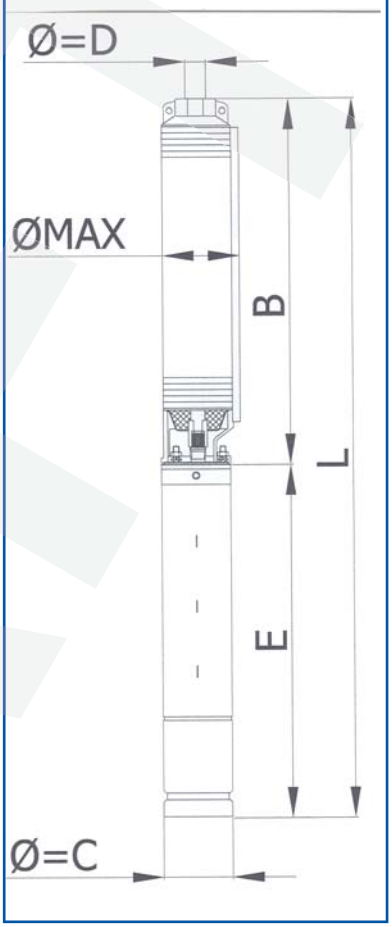
VS 4

Technical data 50Hz

Pumps with Encapsulated Motor

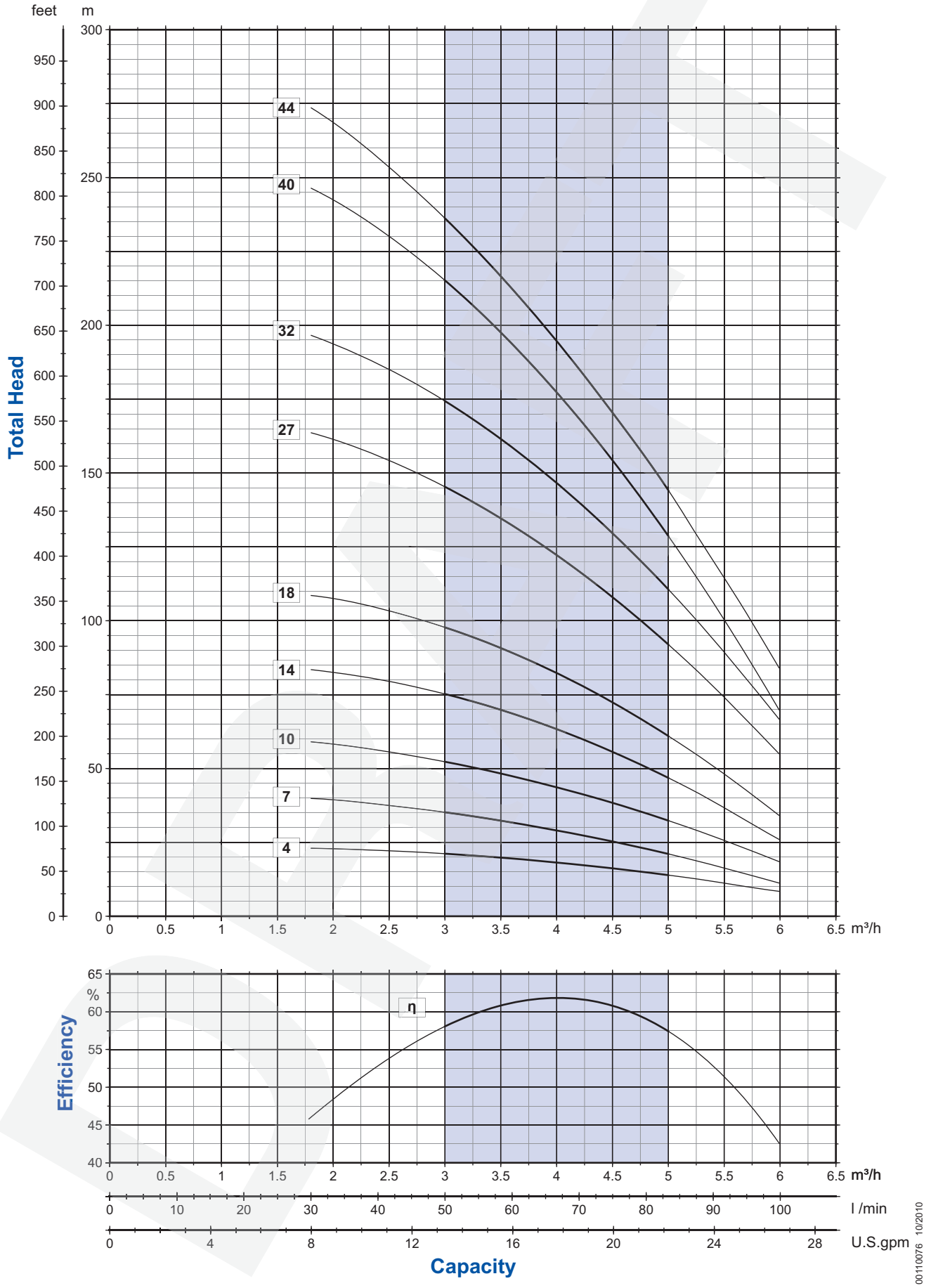
Pump model type	Motor			Dimensions [mm]								Weight [Kg]				
	Type	kW	HP	L 1~	L 3~	E 1~	E 3~	B	$Ø_C$	$Ø_D$	$Ø_{MAX}$	1~ Motor	3~ Motor	Pump	1~ Total	3~ Total
VS 4/4	E4	0,37	0,5	520	520	242	242	278	93	1 ¼"	95	8,6	8,2	2,9	11,5	11,1
VS 4/7	E4	0,55	0,75	613	613	270	270	343	93	1 ¼"	95	9,5	9,5	3,5	13,0	13,0
VS 4/10	E4	0,75	1	709	709	298	298	411	93	1 ¼"	95	10,9	10,9	4,2	15,1	15,1
VS 4/14	E4	1,1	1,5	947	900	449	402	498	93	1 ¼"	95	17,3	15,0	5,1	22,4	20,1
VS 4/18	E4	1,5	2	1075	1037	487	449	588	93	1 ¼"	95	19,5	17,3	5,9	25,4	23,2
VS 4/27	E4	2,2	3	1348	1271	564	487	784	93	1 ¼"	95	25,0	19,5	7,2	32,2	26,7
VS 4/32	E4	3	4	-	1517	-	564	953	93	1 ¼"	95	-	25,0	9,2	-	34,2
VS 4/40	E4	3,7	5	-	1692	-	564	1128	93	1 ¼"	95	-	25,0	10,5	-	35,5
VS 4/44	E4	4	5,5	-	1846	-	627	1219	93	1 ¼"	95	-	27,7	11,8	-	39,5

Dimensions



DRAFT

Performance curves 50Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

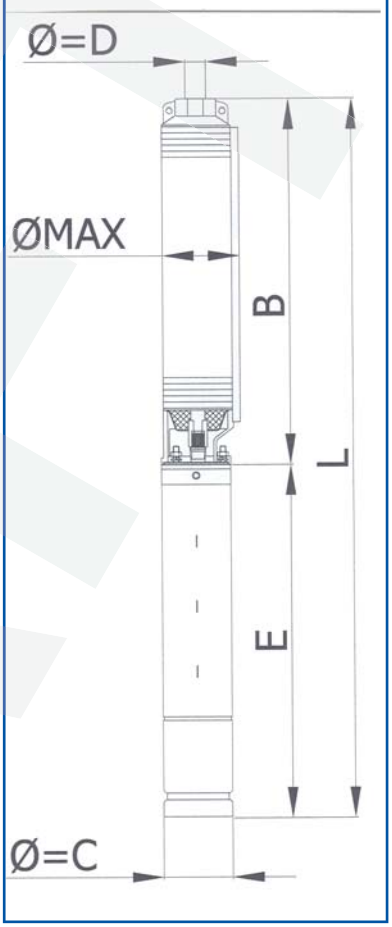
VS 6

Technical data 50Hz

Pumps with Encapsulated Motor

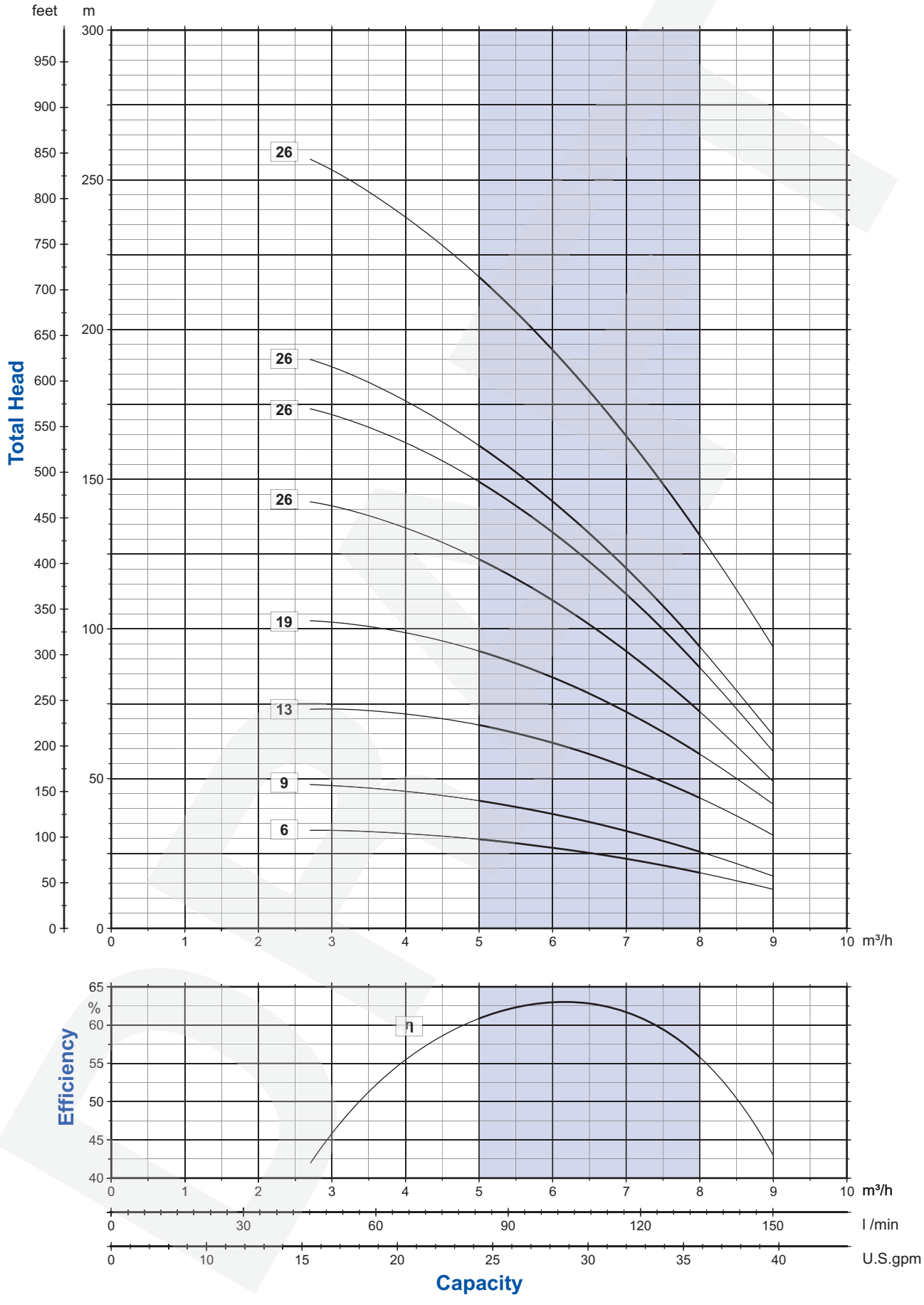
Pump model type	Motor			Dimensions [mm]								Weight [Kg]				
	Type	kW	HP	L 1~	L 3~	E 1~	E 3~	B	$Ø_C$	$Ø_D$	$Ø_{MAX}$	1~ Motor	3~ Motor	Pump	1~ Total	3~ Total
VS 6/6	E4	0,75	1	669	669	298	298	371	93	1 ¼"	95	10,9	10,9	3,2	14,1	14,1
VS 6/9	E4	1,1	1,5	910	863	449	402	461	93	1 ¼"	95	17,3	15,0	4,0	21,3	19,0
VS 6/13	E4	1,5	2	1099	1061	487	449	612	93	1 ¼"	95	19,5	17,3	5,3	24,8	22,6
VS 6/19	E4	2,2	3	1385	1308	564	487	821	93	1 ¼"	95	25,0	19,5	7,3	32,3	26,8
VS 6/26	E4	3	4	-	1595	-	564	1031	93	1 ¼"	95	-	25,0	8,7	-	33,7
VS 6/31	E4	3,7	5	-	1776	-	564	1212	93	1 ¼"	95	-	25,0	10,2	-	35,2
VS 6/34	E4	4	5,5	-	1931	-	627	1303	93	1 ¼"	95	-	27,7	10,9	-	38,6
VS 6/45	E4	5,5	7,5	-	2347	-	716	1631	93	1 ¼"	95	-	31,8	14,1	-	45,9

Dimensions



DRAFT

Performance curves 50Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

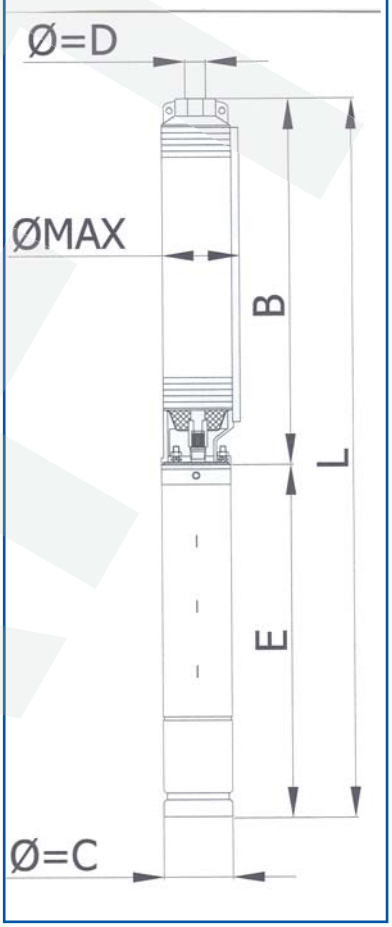
VS 8

Technical data 50Hz

Pumps with Encapsulated Motor

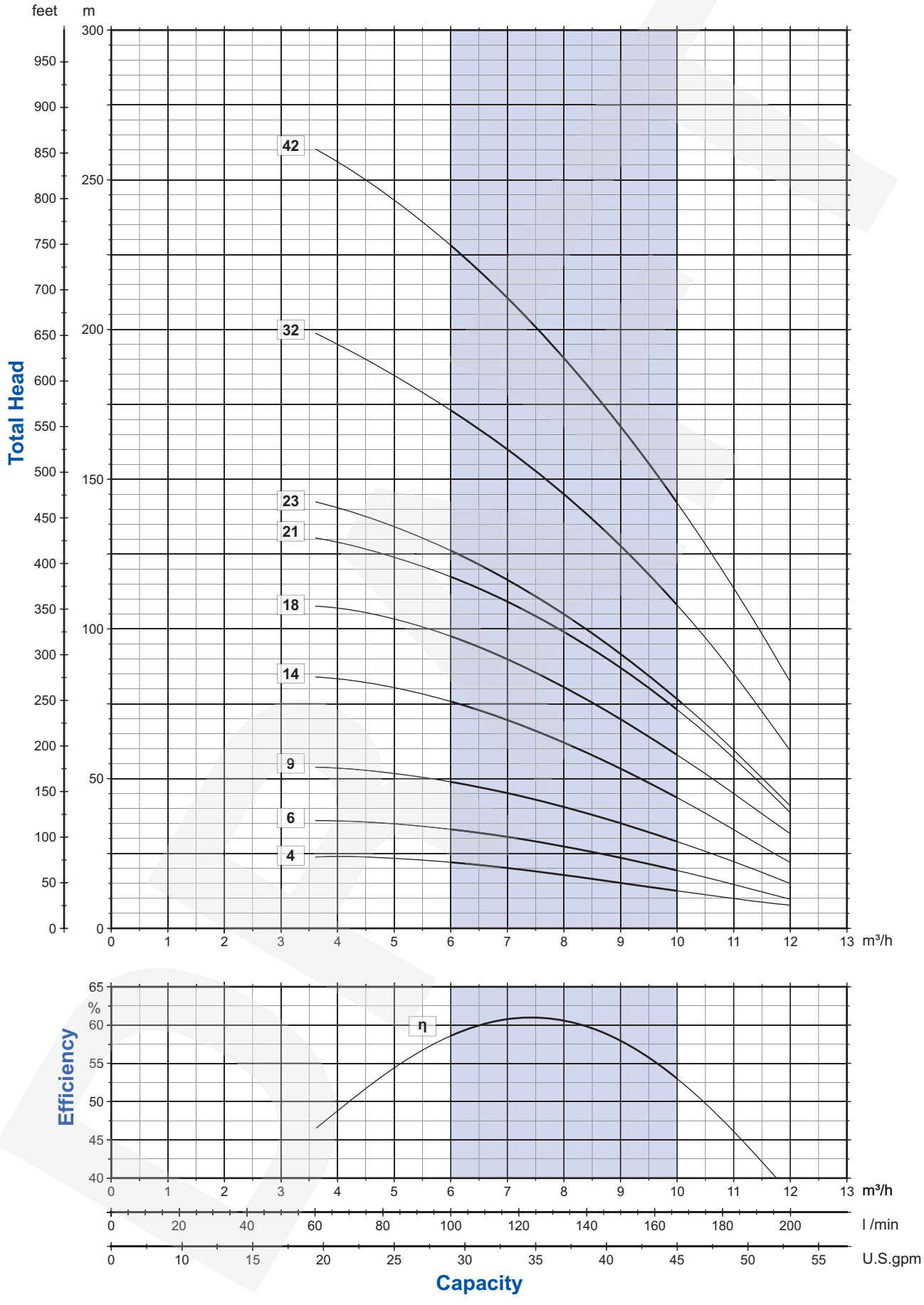
Pump model type	Motor			Dimensions [mm]								Weight [Kg]				
	Type	kW	HP	L 1~	L 3~	E 1~	E 3~	B	$Ø_C$	$Ø_D$	$Ø_{MAX}$	1~ Motor	3~ Motor	Pump	1~ Total	3~ Total
VS 8/4	E4	0,75	1	608	609	298	298	311	93	1 ¼"	95	10,9	10,9	2,9	13,8	13,8
VS 8/6	E4	1,1	1,5	820	773	449	402	371	93	1 ¼"	95	17,3	15,0	3,2	20,5	18,2
VS 8/9	E4	1,5	2	948	910	487	449	461	93	1 ¼"	95	19,5	17,3	4,0	23,5	21,3
VS 8/14	E4	2,2	3	1207	1130	564	487	643	93	1 ¼"	95	25,0	19,5	5,4	30,4	24,9
VS 8/18	E4	3	4	-	1357	-	564	793	93	1 ¼"	95	-	25,0	6,6	-	31,6
VS 8/21	E4	3,7	5	-	1447	-	564	883	93	1 ¼"	95	-	25,0	7,6	-	32,6
VS 8/23	E4	4	5,5	-	1570	-	627	943	93	1 ¼"	95	-	27,7	7,7	-	35,4
VS 8/32	E4	5,5	7,5	-	1961	-	716	1245	93	1 ¼"	95	-	31,8	10,1	-	41,9
VS 8/42	E4	7,5	10	-	2349	-	773	1576	93	1 ¼"	95	-	34,1	12,8	-	46,9

Dimensions



DRAFT

Performance curves 50Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

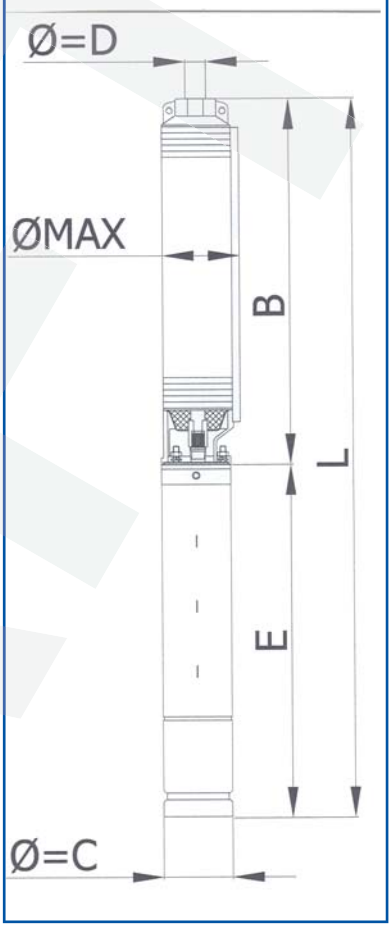
VS 9

Technical data 50Hz

Pumps with Encapsulated Motor

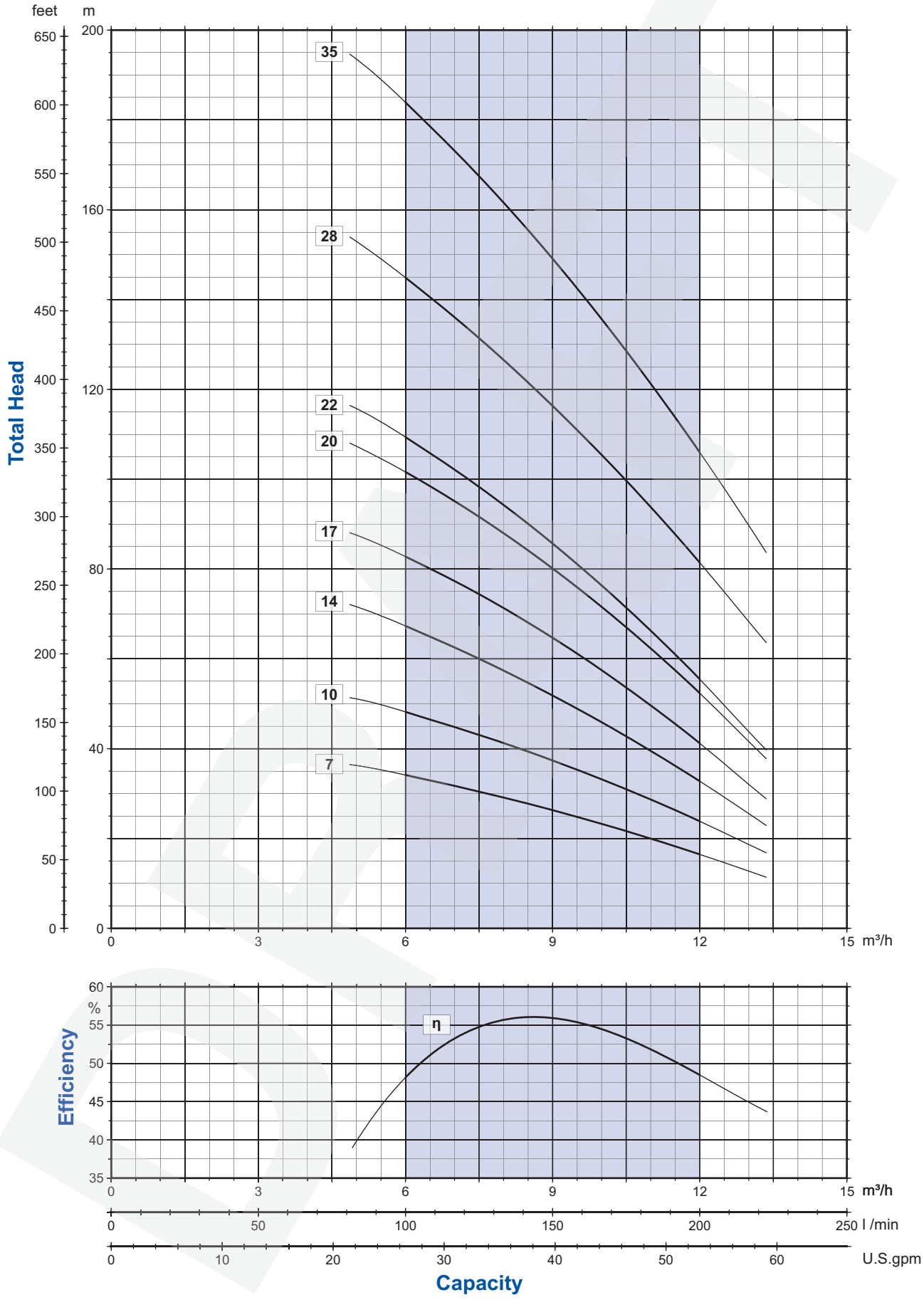
Pump model type	Motor			Dimensions [mm]								Weight [Kg]				
	Type	kW	HP	L 1~	L 3~	E 1~	E 3~	B	$Ø_C$	$Ø_D$	$Ø_{MAX}$	1~ Motor	3~ Motor	Pump	1~ Total	3~ Total
VS 9/7	E4	1,1	1,5	989	942	449	402	540	93	1 ¼"	95	17,3	15,0	4,5	21,8	19,5
VS 9/10	E4	1,5	2	1260	1222	487	449	773	93	1 ¼"	95	19,5	17,3	5,7	25,2	23,0
VS 9/14	E4	2,2	3	1487	1410	564	487	923	93	1 ¼"	95	25,0	19,5	7,5	32,5	27,0
VS 9/17	E4	3	4	-	1666	-	564	1102	93	1 ¼"	95	-	25,0	8,8	-	33,8
VS 9/20	E4	3,7	5	-	1814	-	564	1250	93	1 ¼"	95	-	25,0	10,3	-	35,3
VS 9/22	E4	4	5,5	-	2012	-	627	1385	93	1 ¼"	95	-	27,7	11,3	-	39,0
VS 9/28	E4	5,5	7,5	-	2401	-	716	1685	93	1 ¼"	95	-	31,8	13,6	-	45,4
VS 9/35	E4	7,5	10,0	-	2843	-	773	2070	93	1 ¼"	95	-	34,1	16,6	-	50,7

Dimensions



DRAFT

Performance curves 50Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

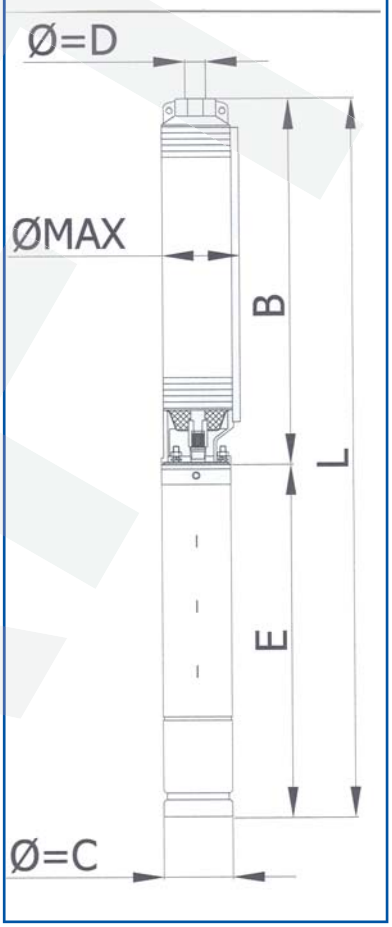
VS 10

Technical data 50Hz

Pumps with Encapsulated Motor

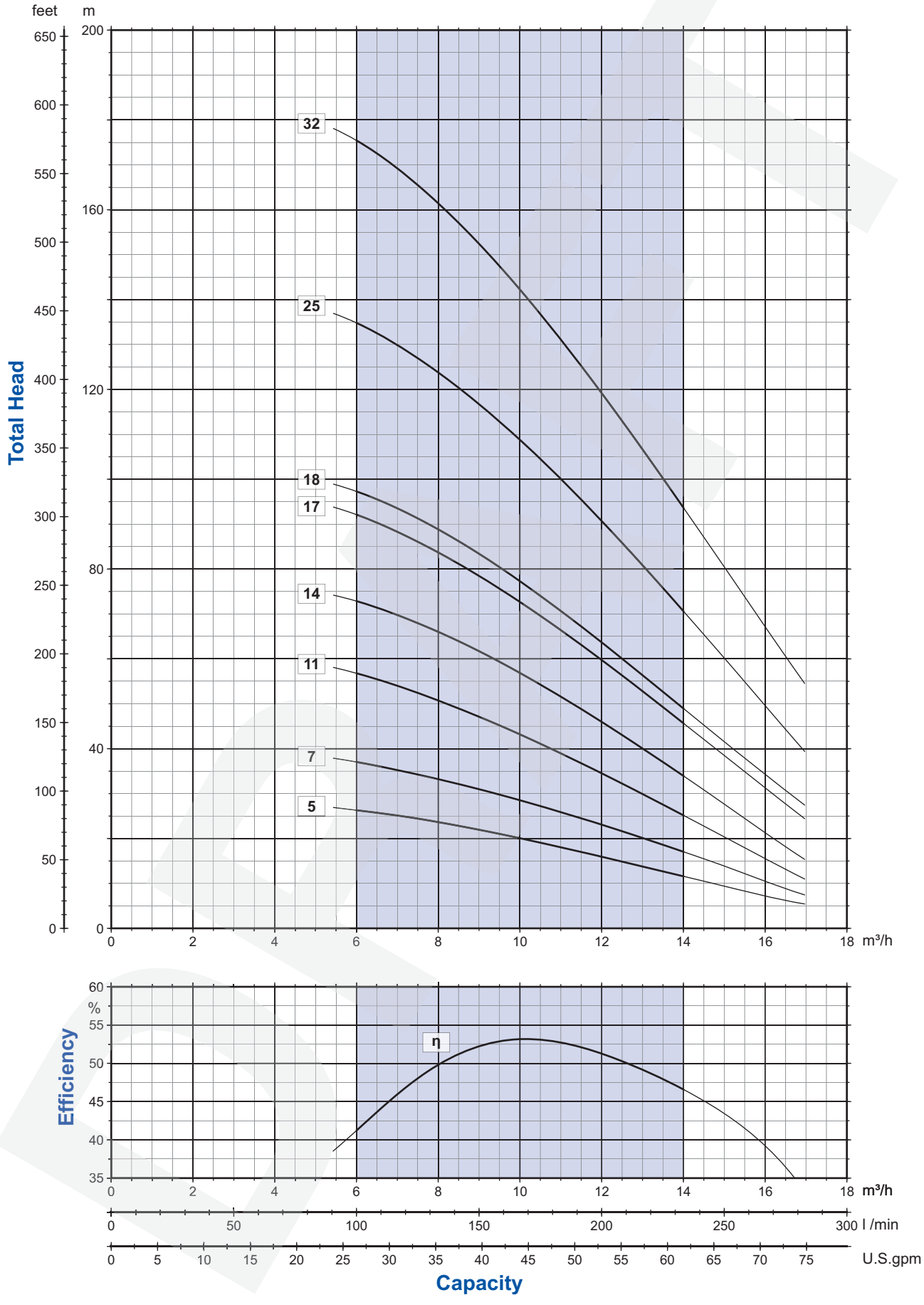
Pump model type	Motor			Dimensions [mm]								Weight [Kg]				
	Type	kW	HP	L 1~	L 3~	E 1~	E 3~	B	$Ø_C$	$Ø_D$	$Ø_{MAX}$	1~ Motor	3~ Motor	Pump	1~ Total	3~ Total
VS 10/5	E4	1,1	1,5	889	842	449	402	440	93	1 ¼"	95	17,3	15,0	3,7	21,0	18,7
VS 10/7	E4	1,5	2	1028	990	487	449	541	93	1 ¼"	95	19,5	17,3	4,4	23,9	21,7
VS 10/11	E4	2,2	3	1337	1260	564	487	773	93	1 ¼"	95	25,0	19,5	6,3	31,3	25,8
VS 10/14	E4	3	4	-	1487	-	564	923	93	1 ¼"	95	-	25,0	7,6	-	32,6
VS 10/17	E4	3,7	5	-	1666	-	564	1102	93	1 ¼"	95	-	25,0	8,9	-	33,9
VS 10/18	E4	4	5,5	-	1780	-	627	1153	93	1 ¼"	95	-	27,7	9,4	-	37,1
VS 10/25	E4	5,5	7,5	-	2252	-	716	1536	93	1 ¼"	95	-	31,8	12,4	-	44,2
VS 10/32	E4	7,5	10	-	2691	-	773	1918	93	1 ¼"	95	-	34,1	15,8	-	49,9

Dimensions



DRAFT

Performance curves 50Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

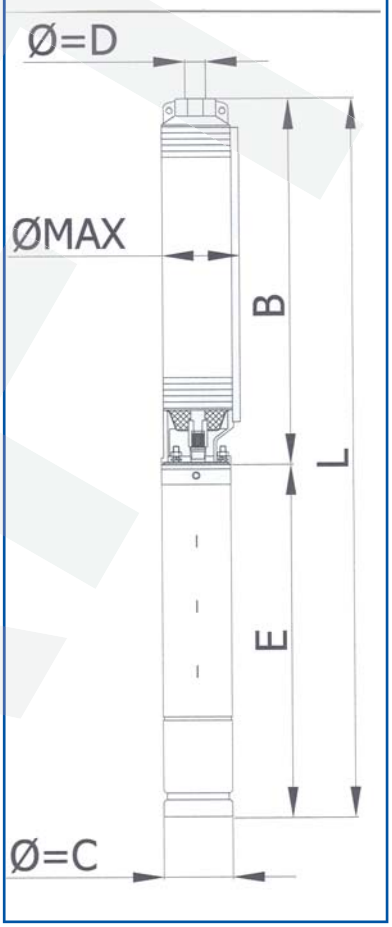
VS 15

Technical data 50Hz

Pumps with Encapsulated Motor

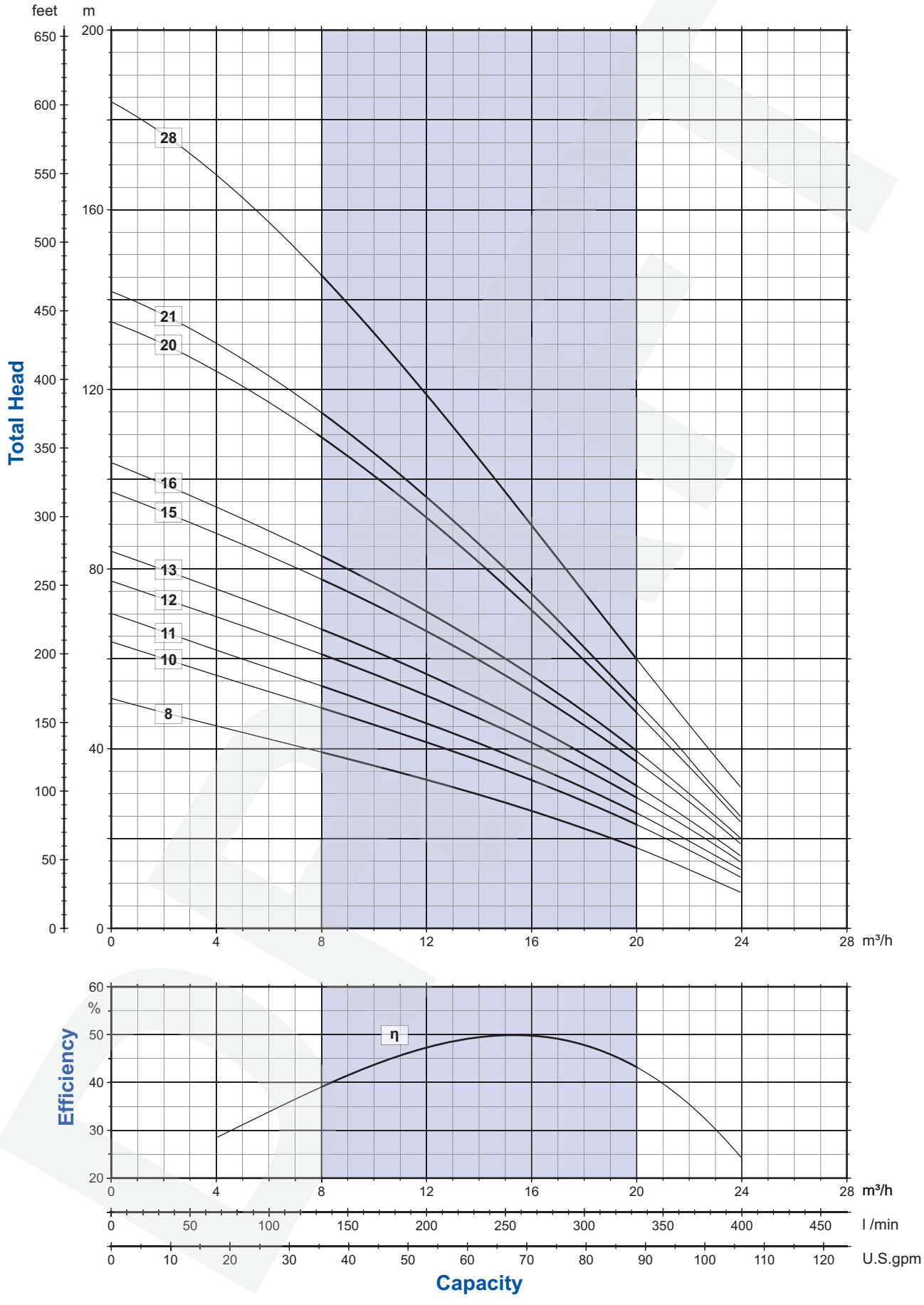
Pump model type	Motor			Dimensions [mm]								Weight [Kg]				
	Type	kW	HP	L 1~	L 3~	E 1~	E 3~	B	$Ø_C$	$Ø_D$	$Ø_{MAX}$	1~ Motor	3~ Motor	Pump	1~ Total	3~ Total
VS 15/8	E4	2,2	3	1195	1175	509	489	686	93	2"	95	14,7	13,9	5,4	20,0	19,2
VS 15/10	E4	3	4	-	1381	-	548	833	93	2"	95	-	17,6	6,4	-	24,0
VS 15/11	E4	3	4	-	1455	-	548	907	93	2"	95	-	17,6	6,9	-	24,5
VS 15/12	E4	3	4	-	1529	-	548	981	93	2"	95	-	17,6	7,4	-	25,0
VS 15/13	E4	4	5,5	-	1672	-	618	1054	93	2"	95	-	20,9	8,0	-	28,9
VS 15/15	E4	4	5,5	-	1820	-	618	1202	93	2"	95	-	20,9	9,0	-	29,9
VS 15/16	E4	4	5,5	-	1893	-	618	1275	93	2"	95	-	20,9	9,5	-	30,4
VS 15/20	E4	5,5	7,5	-	2258	-	688	1570	93	2"	95	-	24,0	11,6	-	35,6
VS 15/21	E4	5,5	7,5	-	2331	-	688	1643	93	2"	95	-	24,0	12,1	-	36,1
VS 15/28	E4	7,5	10	-	2927	-	768	2159	93	2"	95	-	28,0	15,8	-	43,8

Dimensions



DRAFT

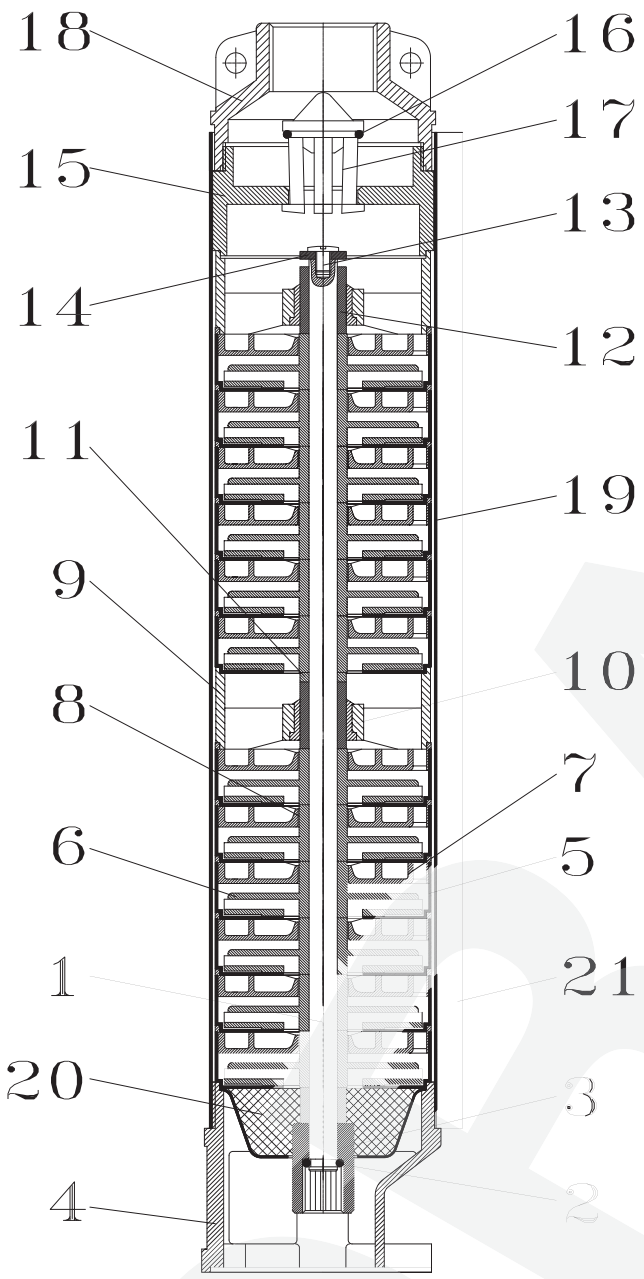
Performance curves 50Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

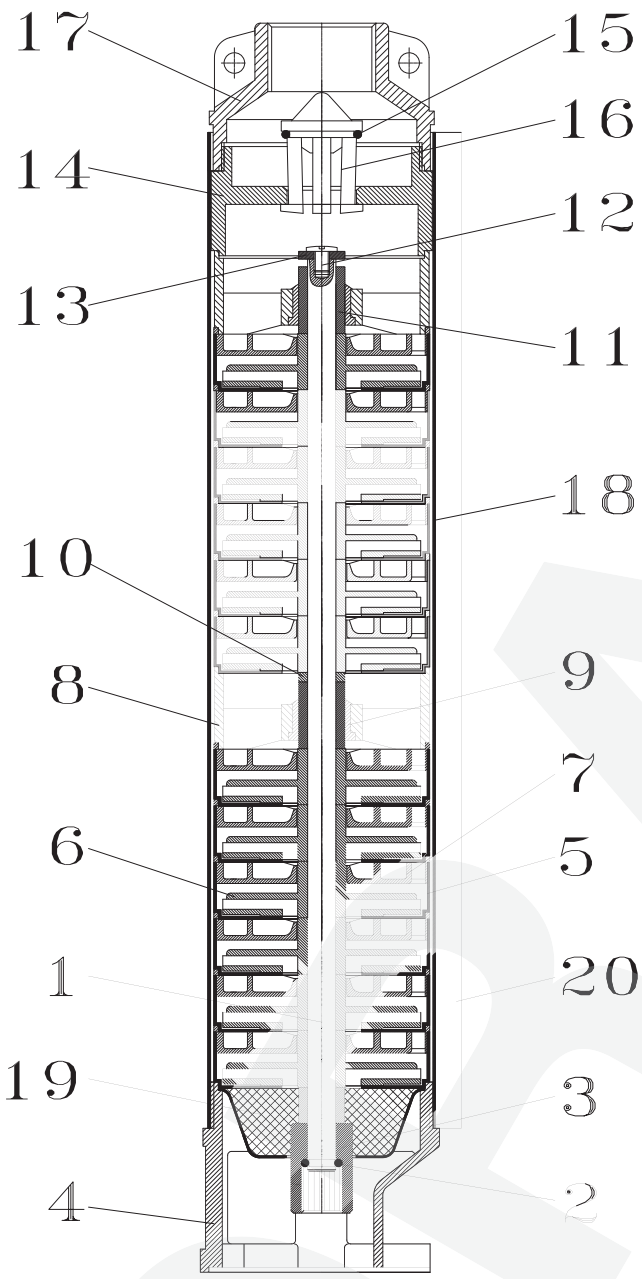
Section and List of Main Components
VS 1/2/3/4/6/8/9



Ref. N.	Description
1	Shaft
2	Retainer
3	Coupling
4	Suction End
5	Body
6	Impeller
7	Diffuser
8	Bearing
9	Bearing Housing
10	Bearing
11	Bushing
12	Bushing
13	Screw
14	Washer
15	Valve Housing
16	O-ring
17	Valve
18	Valve Body 11 TPI
19	Housing
20	Strainer
21	Cable Guard

DRAFT

Section and List of Main Components
VS 10/15



Ref. N.	Description
1	Shaft
2	Retainer
3	Coupling
4	Suction End
5	Body
6	Impeller
7	Diffuser
8	Bearing Housing
9	Bearing
10	Bushing
11	Bushing
12	Screw
13	Washer
14	Valve Housing
15	O-ring
16	Valve
17	Valve Body 11 TPI
18	Housing
19	Strainer
20	Cable Guard

DRAFT

Submersible Motors
Product Overview

E4

4" Encapsulated Motors
4" Super Stainless 3 Phase



SUBMERSIBLE MOTORS

These 4" encapsulated three phase motors, manufactured in ISO 9001 certified facilities, are built for dependable operation in 4" diameter or larger water wells. The motor offer you a maintenance free long life submersible pump application.
The motor is filled with a special FES93 fluid, providing frost protection down to -40°C storage temperature. A special diaphragm ensures pressure compensation inside the motor.

FEATURES

- Hermetically sealed stator. Anti track, self healing stator resin prevents motor burn out
- High efficiency electrical design (low operation cost, cooler winding temperature)
- Removable “Water Bloc™” lead connector
- Cable material according to drinking water regulations (KTW approved)
- Water lubricated radial and thrust bearings
- All motors prefilled and 100% tested.
  Non contaminating, FES93- filled design

SPECIFICATIONS

- 0,37 - 7,5kW
- 4" NEMA flange
- Degree of protection: IP68
- Insulation: Cl. B
- Rated ambient temp.: 30°C
- Cooling flow: Motors 2,2 kW and larger: min. 8 cm/s
- Starts/h: 20
- Mounting: vertical/horizontal
- Voltage tolerance: 380-415V/50Hz, 460V/60Hz; -10% / +6% U_N [380-415V = (380-10%) – (415+6%)]
- Motor protection: Select thermal overloads according to EN 60947-4-1,Trip time <10 s at 5 x I_N

AVAILABLE OPTIONS

- Motor cable VDE / KTW approved (1,5m; 2,5m; special lengths available)
- Motors with factory- installed lead in Single Packing
- Special voltages on request
- YΔ - start (pos. of cables 90°) in motors 316SS on request
- Motor complete in AISI 316SS with SiC seal

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

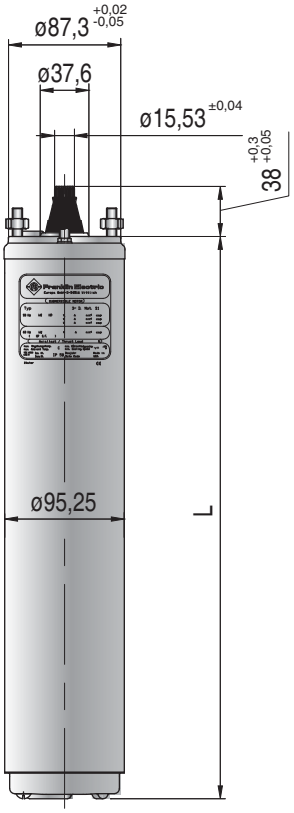
Performance table at ~2850 rpm

Three-Phase 4" Encapsulated Motors 400V

P_N		Thrust	n_N	I_N	I_A	η	cos φ	T_N	T_A	L	Weight
[kW]	[HP]	F [N]	[min^{-1}]	[A]	[A]	[%]	[%]	[Nm]	[Nm]	[mm]	[kg]
0,37	0,5	3000	2870	1,1	5,41	66	0,74	1,22	3,00	214,2	7,2
0,55	0,75	3000	2870	1,6	7,4	68	0,74	1,82	4,20	228,2	7,7
0,75	1	3000	2865	2,0	7,0	70	0,77	2,49	6,70	248,2	8,7
1,1	1,5	3000	2850	2,8	16,0	74	0,78	3,67	11,33	282,6	10,2
1,5	2	3000	2855	3,9	20,7	73	0,78	5,00	14,10	306,6	11,2
2,2	3	3000	2845	5,5	29,8	75	0,77	7,37	22,0	338,6	12,6
		6500*	2845	5,5	29,8	75	0,77	7,37	22,0	422,2	15,0
3,0	4	3000	2845	7,5	42,0	76	0,77	10,06	31,93	393,6	15,0
		6500*	2845	7,5	42,0	76	0,77	10,06	31,93	477,2	17,0
3,7	5	6500*	2840	9,0	52,3	78	0,78	12,5	41,5	520,2	19,1
4,0	5,5	6500*	2840	9,9	57,0	78	0,77	13,4	44,0	543,2	20,0
5,5	7,5	6500*	2865	12,6	77,2	79	0,81	18,3	56,5	652,5	26,6
7,5	10	6500*	2855	17,1	99,3	79	0,81	25,1	73,1	730,5	30,6

* High Thrust Version

Dimensions



It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

Accessories

ACCESSORIES

Motor Control



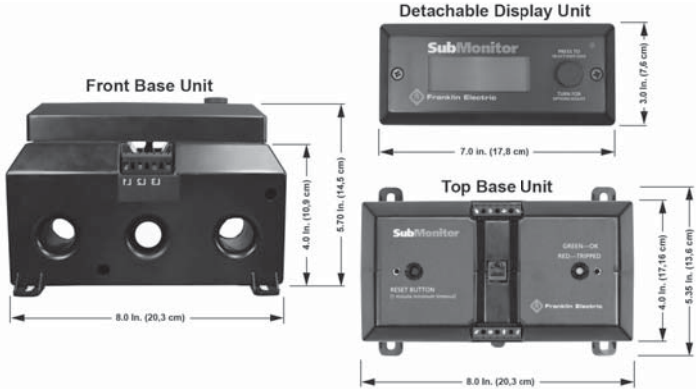
SUBMONITOR
MOTOR PROTECTION

The SubMonitor is designed to protect 3-phase pumps with horsepower ratings between 3 and 200 Hp. Current, voltage and motor temperature are monitored using three integrated current transformers. A digital display provides current and voltage readings for all three legs and allows the user to set up the SubMonitor quickly and easily. The SubMonitor is the latest innovation in 3-phase pump protection from Franklin Electric. Using state-of-the-art technology, the SubMonitor provides the ultimate protection for a pump and motor. There is simply no better way to protect a large 3-phase submersible pump investment than with a SubMonitor. It's the protection device that can sense overheating straight from the motor windings! And it is made by the world leader in submersible motors - Franklin Electric.

FEATURES

- Quick setup to monitor a motor, simply enter the Line Frequency (Hz), Line Voltage (volts), and Motor Service Factor Amp rating
- Digital display indicates voltage and current on all three legs at the same time, and fault messages are in easily understandable text
- Monitors - Under/Overload; Under/Overvoltage; Current Unbalance; Overheated Motor (Subtrol Equipped); False Start (Chattering); Phase Reversal
- For motors with service factor amp ratings between 3 and 359 amps
- One unit covers the entire range from 190 to 600 Volts
- No need to make additional turns around the CT or add external CTs
- Password Protection Option
- DIN Rail Mounting Option
- Stores fault, setting changes, and pump run-time, that can be accessed through the display
- Detachable NEMA 3R display unit can be mounted on panel door
- UL 508 Listed

Model number	
Premium Package	586 000 5100
Input Voltage	190 – 600 VAC
Frequency	60/50 Hz
Motor Service Factor Amps	3 to 359 Amps
Maximum Conductor Size Through Sensors	
Max. Diameter	0.920 in. (23 mm)
Trip Response	
Motor, Under / Overload, Under / Overvoltage, Overheat Unbalance	3 seconds
Control Circuit Rating	1.5 Amp AC, up to 600 volts
Signal Circuit Rating	1 Amp AC, up to 250 volts (Incandescent: 100 watts max.)
Wiring Terminals	
Wire Gauge	#12 to #18 AWG
Tighten to	4.5 in-lbs
Weight (SubMonitor)	3.3 lbs/7,3 kg
Carton Size (Std. Unit)	7,75 in x 11,5 in x 6,75 in (19,7 cm x 29,2 cm x 17,1 cm)
Shipping Weight (Std. Unit)	3.5 Lbs./7.5 kg



It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

Motor Control

SubStartSC® Single phase Submersible Motor Starter

The SubStartSC® range covers all PSC motors from 0.25kW to 2.2kW for all voltages. Ergonomic design, attention to detail and unique features make the SubStartSC® motor starter range your first choice when considering submersible motor protection. In conjunction with Franklin Electric submersible motors you now have an tangible water system advantage resulting in ease of installation and reliable protection.



FEATURES

- Attention to detail – every aspect engineered for the application
- The complete package – The device is 100% compatible with the motor characteristics
- All in one name – Reliability backed by the leader in submersible motors

Ergonomically designed

Mounting	Easy wall mounting without destroying the protection rating of the enclosure.
Wiring	Sufficient space is provided for ease of wiring.
Enclosure	
Protection	IP54
Material	IN
Components	
ON/OFF switch	Illuminated integral ON/OFF switch for ease of power
Circuit breaker	Thermal circuit breaker for protection of the motor.
Capacitor	High quality motor run capacitor for long life
Terminal board	Terminal board suitable for ease of reliable connections
Cable glands	Cable glands to ensure IP54 rating

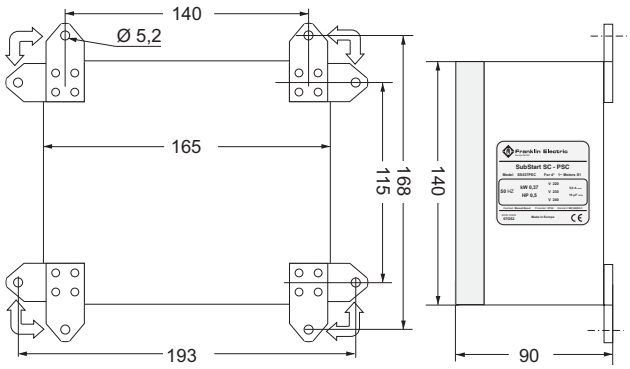
Technical Specifications

Mechanical	
Protection level	IP54
External dimensions	168 x 142 x 85mm
Weight	0,6 - 1,0 kg
Mounting	Wall mounting (mounting hardware provided)
Temperature	-5°C - +40°C
Humidity	50% at 55°C (without condensation)
Electrical	
Voltage	220 - 240V; - 1 / +10 %; 50Hz single phase
Current	16 A
Power	0,25 - 2,2 kW
Standards	
IEC 60439-1	

Submersible Motor Starter Specifications

Part Number[1]	Type[2]	Motor rating (kW)	Nominal Current[3] (A)	Maximal expected current[4] (A)	Capacitor (µF) 450V ac
284 623 3510	SS025SC	0,25	2,5	8,4	12,5
284 624 3510	SS037SC	0,37	3,4	11,2	16
284 625 3510	SS055SC	0,55	4,3	16,1	20
284 626 3510	SS075SC	0,75	5,8	21,1	35
284 627 3510	SS110SC	1,10	8,6	31,5	40
284 628 3510	SS150SC	1,50	10,6	35,4	50
284 629 3510	SS220SC	2,20	16,0	54,2	70

Dimensions



NOTES:

1. Can be used with both 220-230V and 230-240V PSC motor ranges.
2. Type indicates motor power rating and motor type.
3. Nominal supply current at nominal voltage
4. Motor starting current under nominal conditions

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

ACCESSORIES

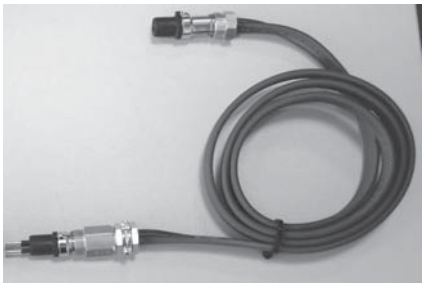
Termination Kit 4"

This proven, sturdy solution is your choice of cable joining in temporary pump applications or when re-usage if the drop cable is desired. Furthermore, the flexibility and safety it provides for under field service conditions makes it the preferred choice over conventional, not breakable splicing kits.



Double Plug Lead for Termination Kit

- 2-wire / 3-wire
- 1,5m / 2,5m Lead lenght
- with / without Strain relief
- Max. current 16 Apms.
- KTW approved



Corrosion Protection 4"

APPLICATION

The sacrificial anode attaches to the bottom end bell of Franklin Electric 4" Super Stainless submersible motors. Since cast iron is more chemically active than the metals that make up the motor and pump, it is the cast iron that reacts to the corrosive elements in the water. This results in longer motor and pump life in aggressive/corrosive water conditions.

LT

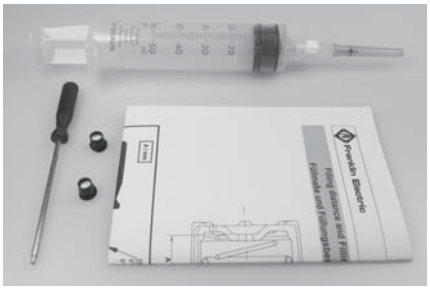


HT



Motor Filling Kit

This kit offers all tools for control the level of the engine filling liquid and to fill up if necessary!



Surge Arrestor

APPLICATION

These surge arrestors or their equivalents are highly recommended for protecting submersible motors from a variety of commonly occurring high voltage spikes which can damage the motor insulation system and cause motor winding failure. These arrestors will not, as is true of any surge protection equipment, protect the motor from a direct lightning strike.



It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

E-Tech®

by Franklin Electric

SUBMERSIBLE PUMPS, MOTORS AND ACCESSORIES

50Hz

VS New



INDEX

VS Series Stainless Steel Submersible Pumps for 6" deep wells and larger 4
General Product Curves 6" 5
Material Table 6" 5

Table of Hydraulic Performance
VS 14 6
VS 19 7
VS 30 8
VS 46 9
VS 65 10

Technical Data and Performance Curves 50Hz
VS 14 12
VS 14 High Pressure 16
VS 19 18
VS 19 High Pressure 22
VS 30 24
VS 30 High Pressure 26
VS 46 28
VS 46 High Pressure 30
VS 65 32
VS 65 High Pressure 34

Section and list of main components
VS 14 - VS 19 36
VS 30 - VS 46 - VS 65 37

VS Series Stainless Steel Submersible Pumps for 8" deep wells and larger 40
General Product Curves 8" 41
Material Table 8" 41

Table of Hydraulic Performance
VS 78 42
VS 97 42

Technical Data and Performance Curves 50Hz
VS 78 44
VS 97 46

Section and list of main components
VS 78 - VS 97 48

Submersible Motors Product
4" Encapsulated Motors - 4" Super Stainless 3 Phase 52
6" Encapsulated Motors 54
6" Rewindable Motors 56
8" Encapsulated Motors 58
8" Rewindable Motors 60

Accessories
Motor Control - Submonitor Motor Protection 64
Motor Control - SubStartSC® Single phase Submersible Motor Starter 65
Termination Kit 4" 66
Double Plug Lead for Termination Kit 66
Corrosion Protection 4" 66
Motor Filling Kit 66
6" Permanent Star Plug 66
Surge Arrestor 67
PT100 for 6" and 8" Encapsulated Motors 67
PT100 Rewindable Motors 67

VS Series Stainless Steel Submersible Pumps for 6" deep wells and larger

Characteristics and Hydraulic Performances

50 Hz

APPLICATIONS

- Municipal water works
- Water distribution and pressure boosting
- Irrigation and sprinkler systems, water treatment plants, filtration and reverse osmosis
- Industrial cooling and processing
- Mining industry, drainage and dewatering
- Fountains
- Fire-fighting equipment
- General industry

FEATURES

- Fabricated stainless steel impellers and diffusers for corrosion resistance
- Heavy duty stainless steel structure to assure permanent alignment of all the components in order to increase run time and trouble-free operation
- Teflon floating neck ring, ceramic guide journal sleeve (tungsten-carbide on request) and Nitrile rubber fluted bearing to ensure durability against wear for long-lasting constant performances and product reliability
- Compact, reliable and suited to operate in horizontal position
- Built-in check valve to protect the pump against water hummer risk
- External stainless steel sleeve to improve stiffness and assure permanent alignment of all the components
- The hydraulic design is such to enhance the overall efficiency thus reducing energy consumption and making the pumping systems more cost effective

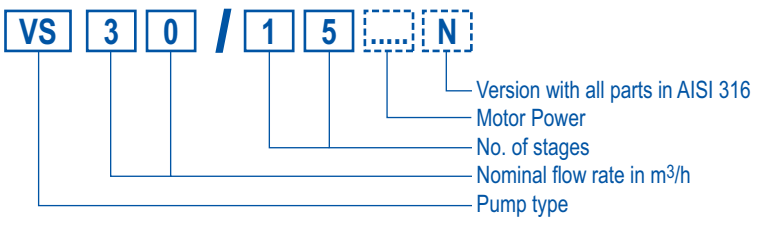
SPECIFICATIONS

- Capacities up to 80 m³/h at 50Hz
- 70 Bar (700 m) at 50Hz
- Maximum allowable amount of sand 100 gr/m³
- Water temperature range: from -5° C to 60°C
- Rotation: counter clockwise when looking into the discharge
- Motor adapter in compliance with NEMA standard
- Pump can work continuously in vertical or horizontal position
- Motors: see section Submersible Motors Product Overview

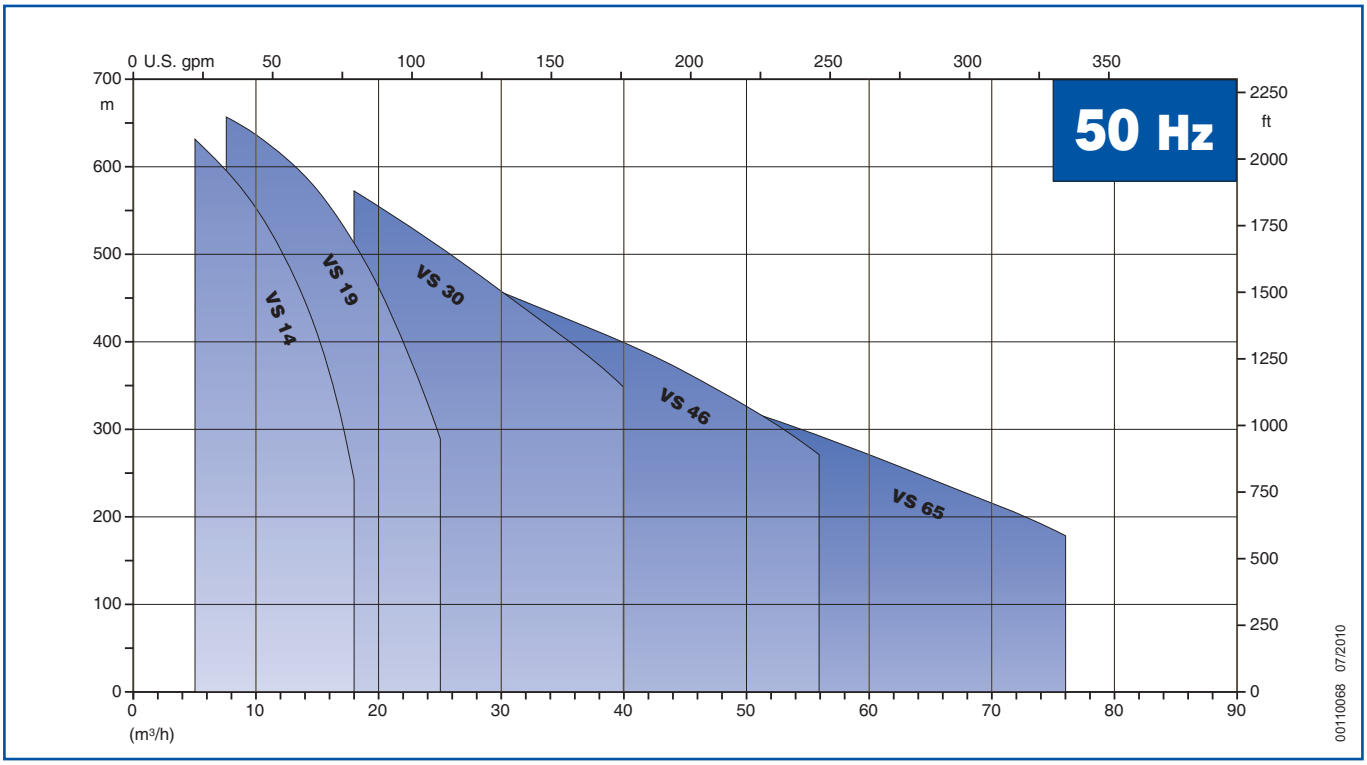
AVAILABLE OPTIONS

- 316 Stainless steel (N) version (DIN/EN 1.4401)
- Double cable guard
- Rp 2" and Rp 3" discharge heads for VS 14 and VS 19
- Rp 4" discharge head
- 4" motor adapter
- 8" motor adapter
- Tungsten-carbide guide journal sleeve
- High temperature version (up to 90° C)

PUMP IDENTIFICATION CODE



00117023 07/2010



MATERIAL IN CONTACT WITH THE LIQUID						
Pos.	**PARTS DESCRIPTIONS**		**MATERIAL**			
			Standard version		**N version**	
		Type	**AISI**	**DIN / EN**	**AISI**	**DIN / EN**
10.00	**Discharge head**	Stainless steel	304	1.4301	316	1.4401
10.01 / 04 / 05	**Valve**	Stainless steel	316	1.4401	316	1.4401
10.02	**Sealing O-ring**	Nitrile rubber (NBR)	-	-	-	-
10.03	**Outer case locking nuts**	Stainless steel	316	1.4401	316	1.4401
20.00	**Outer case**	Stainless steel	304	1.4301	316	1.4401
20.01	**Suction strainer**	Stainless steel	316	1.4401	316	1.4401
20.02	**Cable guard**	Stainless steel	316	1.4401	316	1.4401
20.03	**Initial spacer**	Stainless steel	304	1.4301	316	1.4401
20.04	**Flange and screws**	Stainless steel	304	1.4301	316	1.4401
20.05	**Motor adapter**	Stainless steel	304	1.4301	316	1.4401
30.00	**Pump shaft**	Stainless steel	431	1.4057	316/329	1.4401/1.4460
30.01	**Coupling**	Stainless steel	431/329	1.4057/1.4460	316/329	1.4401/1.4460
30.02 / 03	**Upper / Lower up-thrust washer**	Stainless steel	316	1.4401	316	1.4401
30.04	**Upper journal sleeve**	Stainless steel with ceramic coating	329	1.4460	329	1.4460
30.05	**Screw and washer**	Stainless steel	316	1.4401	316	1.4401
30.06	**Up-thrust ring**	Teflon (PTFE)	-	-	-	-
30.07 / 08	**Lower / Upper spacer**	Stainless steel	316	1.4401	316	1.4401
40.00	**Diffuser**	Stainless steel	304	1.4301	316	1.4401
40.01	**Secondary bearing bush**	Nitrile rubber (NBR)	-	-	-	-
40.02	**Floating neck ring**	Teflon (PTFE)	-	-	-	-
40.03	**Flange clamping neck ring**	Stainless steel	304	1.4301	316	1.4401
40.04	**Bearing bush**	Nitrile rubber (NBR)	-	-	-	-
40.05	**Last / Intermediate diffuser**	Stainless steel	316	1.4401	316	1.4401
40.06	**First stage**	Stainless steel	316	1.4401	316	1.4401
50.00 / 05	**Impeller / Wear ring**	Stainless steel	304	1.4301	316	1.4401
50.01	**Split cone / Secondary journal sleeve**	Stainless steel	316	1.4401	316	1.4401
50.02 / 03	**Split cone nut / Intermediate cone nut**	Stainless steel	316	1.4401	316	1.4401
50.04	**Up-thrust split cone nut**	Stainless steel	316	1.4401	316	1.4401

VS14
TABLE OF HYDRAULIC PERFORMANCES AT 50Hz

PUMP TYPE	RATED POWER		Q = DELIVERY									
			m³/h	0	6	8	10	12	15	18	21	24	27
			l/min	0	100	133	167	200	250	300	350	400	450
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER [m]										
VS 14/5	4	5,5		56,1	50,7	48,4	45,4	41,4	31,3	18,6			
VS 14/6	4	5,5		67,3	60,8	58,1	54,5	49,7	37,5	22,3			
VS 14/7	4	5,5		78,5	71,0	67,8	63,6	58,0	43,8	26,0			
VS 14/8	4	5,5		89,7	81,1	77,5	72,7	66,3	50,0	29,7			
VS 14/9	5,5	7,5		100,9	91,2	87,2	81,8	74,6	56,3	33,4			
VS 14/10	5,5	7,5		112,1	101,4	96,9	90,9	82,9	62,5	37,1			
VS 14/11	5,5	7,5		123,3	111,5	106,6	100,0	91,2	68,8	40,8			
VS 14/12	5,5	7,5		134,6	121,7	116,3	109,1	99,5	75,0	44,6			
VS 14/13	5,5	7,5		145,8	131,8	125,9	118,1	107,7	81,3	48,3			
VS 14/14	7,5	10		157,0	141,9	135,6	127,2	116,0	87,5	52,0			
VS 14/15	7,5	10		168,2	152,1	145,3	136,3	124,3	93,8	55,7			
VS 14/16	7,5	10		179,4	162,2	155,0	145,4	132,6	100,0	59,4			
VS 14/17	7,5	10		190,6	172,3	164,7	154,5	140,9	106,3	63,1			
VS 14/18	9,3	12,5		201,8	182,5	174,4	163,6	149,2	112,5	66,8			
VS 14/19	9,3	12,5		213,0	192,6	184,1	172,7	157,5	118,8	70,5			
VS 14/20	9,3	12,5		224,3	202,8	193,8	181,8	165,8	125,0	74,3			
VS 14/21	9,3	12,5		235,5	212,9	203,4	190,8	174,0	131,3	78,0			
VS 14/22	9,3	12,5		246,7	223,0	213,1	199,9	182,3	137,5	81,7			
VS 14/23	11	15		257,9	233,2	222,8	209,0	190,6	143,8	85,4			
VS 14/24	11	15		269,1	243,3	232,5	218,1	198,9	150,0	89,1			
VS 14/25	11	15		280,3	253,4	242,2	227,2	207,2	156,3	92,8			
VS 14/26	11	15		291,5	263,6	251,9	236,3	215,5	162,5	96,5			
VS 14/27	15	20		302,7	273,7	261,6	245,4	223,8	168,8	100,2			
VS 14/28	15	20		314,0	283,9	271,3	254,5	232,1	175,0	104,0			
VS 14/29	15	20		325,2	294,0	280,9	263,5	240,3	181,3	107,7			
VS 14/30	15	20		336,4	304,1	290,6	272,6	248,6	187,5	111,4			
VS 14/31	15	20		347,6	314,3	300,3	281,7	256,9	193,8	115,1			
VS 14/32	15	20		358,8	324,4	310,0	290,8	265,2	200,0	118,8			
VS 14/33	15	20		370,0	334,5	319,7	299,9	273,5	206,3	122,5			
VS 14/34	15	20		381,2	344,7	329,4	309,0	281,8	212,5	126,2			
VS 14/35	15	20		392,4	354,8	339,1	318,1	290,1	218,8	129,9			
VS 14/36	15	20		403,7	365,0	348,8	327,2	298,4	225,0	133,7			
VS 14/37	18,5	25		414,9	375,1	358,4	336,2	306,6	231,3	137,4			
VS 14/38	18,5	25		426,1	385,2	368,1	345,3	314,9	237,5	141,1			
VS 14/39	18,5	25		437,3	395,4	377,8	354,4	323,2	243,8	144,8			
VS 14/40	18,5	25		448,5	405,5	387,5	363,5	331,5	250,0	148,5			
VS 14/41	18,5	25		459,7	415,6	397,2	372,6	339,8	256,3	152,2			
VS 14/42	18,5	25		470,9	425,8	406,9	381,7	348,1	262,5	155,9			
VS 14/43	18,5	25		482,1	435,9	416,6	390,8	356,4	268,8	159,6			
VS 14/44	18,5	25		493,4	446,1	426,3	399,9	364,7	275,0	163,4			
VS 14/45	22	30		504,6	456,2	435,9	408,9	372,9	281,3	167,1			
VS 14/46	22	30		515,8	466,3	445,6	418,0	381,2	287,5	170,8			
VS 14/47	22	30		527,0	476,5	455,3	427,1	389,5	293,8	174,5			
VS 14/48	22	30		538,2	486,6	465,0	436,2	397,8	300,0	178,2			
VS 14/49	22	30		549,4	496,7	474,7	445,3	406,1	306,3	181,9			
VS 14/50	22	30		560,6	506,9	484,4	454,4	414,4	312,5	185,6			
VS 14/51	22	30		571,8	517,0	494,1	463,5	422,7	318,8	189,3			
VS 14/52	22	30		583,1	527,2	503,8	472,6	431,0	325,0	193,1			
VS 14/53	30	40		594,3	537,3	513,4	481,6	439,2	331,3	196,8			
VS 14/54	30	40		605,5	547,4	523,1	490,7	447,5	337,5	200,5			
VS 14/55	30	40		616,7	557,6	532,8	499,8	455,8	343,8	204,2			
VS 14/56	30	40		627,9	567,7	542,5	508,9	464,1	350,0	207,9			
VS 14/57	30	40		639,1	577,8	552,2	518,0	472,4	356,3	211,6			
VS 14/58	30	40		650,3	588,0	561,9	527,1	480,7	362,5	215,3			
VS 14/59	30	40		661,5	598,1	571,6	536,2	489,0	368,8	219,0			
VS 14/60	30	40		672,8	608,3	581,3	545,3	497,3	375,0	222,8			
VS 14/61	30	40		684,0	618,4	590,9	554,3	505,5	381,3	226,5			

VS19
TABLE OF HYDRAULIC PERFORMANCES AT 50Hz

PUMP TYPE	RATED POWER		Q = DELIVERY									
			m³/h	0	6	8	10	12	15	18	21	24	27
			l/min	0	100	133	167	200	250	300	350	400	450
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER [m]										
VS 19/6	4	5,5	70,0		66,4	64,0	62,0	57,6	51,6	43,2	32,9	20,5
VS 19/7	5,5	7,5	81,7		77,5	74,7	72,3	67,2	60,2	50,4	38,4	23,9
VS 19/8	5,5	7,5	93,3		88,5	85,3	82,7	76,8	68,8	57,6	43,9	27,4
VS 19/9	5,5	7,5	105,0		99,6	96,0	93,0	86,4	77,4	64,8	49,4	30,8
VS 19/10	7,5	10	116,7		110,7	106,7	103,3	96,0	86,0	72,0	54,9	34,2
VS 19/11	7,5	10	128,3		121,7	117,3	113,7	105,6	94,6	79,2	60,4	37,6
VS 19/12	7,5	10	140,0		132,8	128,0	124,0	115,2	103,2	86,4	65,8	41,0
VS 19/13	9,3	12,5	151,7		143,9	138,7	134,3	124,8	111,8	93,6	71,3	44,5
VS 19/14	9,3	12,5	163,3		154,9	149,3	144,7	134,4	120,4	100,8	76,8	47,9
VS 19/15	9,3	12,5	175		166	160	155	144	129	108	82,3	51,3
VS 19/16	11	15	186,7		177,1	170,7	165,3	153,6	137,6	115,2	87,8	54,7
VS 19/17	11	15	198,3		188,1	181,3	175,7	163,2	146,2	122,4	93,3	58,1
VS 19/18	11	15	210,0		199,2	192,0	186,0	172,8	154,8	129,6	98,8	61,6
VS 19/19	15	20	221,7		210,3	202,7	196,3	182,4	163,4	136,8	104,2	65,0
VS 19/20	15	20	233,3		221,3	213,3	206,7	192,0	172,0	144,0	109,7	68,4
VS 19/21	15	20	245,0		232,4	224,0	217,0	201,6	180,6	151,2	115,2	71,8
VS 19/22	15	20	256,7		243,5	234,7	227,3	211,2	189,2	158,4	120,7	75,2
VS 19/23	15	20	268,3		254,5	245,3	237,7	220,8	197,8	165,6	126,2	78,7
VS 19/24	15	20	280,0		265,6	256,0	248,0	230,4	206,4	172,8	131,7	82,1
VS 19/25	18,5	25	291,7		276,7	266,7	258,3	240,0	215,0	180,0	137,2	85,5
VS 19/26	18,5	25	303,3		287,7	277,3	268,7	249,6	223,6	187,2	142,7	88,9
VS 19/27	18,5	25	315,0		298,8	288,0	279,0	259,2	232,2	194,4	148,1	92,3
VS 19/28	18,5	25	326,7		309,9	298,7	289,3	268,8	240,8	201,6	153,6	95,8
VS 19/29	18,5	25	338,3		320,9	309,3	299,7	278,4	249,4	208,8	159,1	99,2
VS 19/30	18,5	25	350,0		332,0	320,0	310,0	288,0	258,0	216,0	164,6	102,6
VS 19/31	22	30	361,7		343,1	330,7	320,3	297,6	266,6	223,2	170,1	106,0
VS 19/32	22	30	373,3		354,1	341,3	330,7	307,2	275,2	230,4	175,6	109,4
VS 19/33	22	30	385,0		365,2	352,0	341,0	316,8	283,8	237,6	181,1	112,9
VS 19/34	22	30	396,7		376,3	362,7	351,3	326,4	292,4	244,8	186,5	116,3
VS 19/35	22	30	408,3		387,3	373,3	361,7	336,0	301,0	252,0	192,0	119,7
VS 19/36	22	30	420,0		398,4	384,0	372,0	345,6	309,6	259,2	197,5	123,1
VS 19/37	30	40	431,7		409,5	394,7	382,3	355,2	318,2	266,4	203,0	126,5
VS 19/38	30	40	443,3		420,5	405,3	392,7	364,8	326,8	273,6	208,5	130,0
VS 19/39	30	40	455,0		431,6	416,0	403,0	374,4	335,4	280,8	214,0	133,4
VS 19/40	30	40	466,7		442,7	426,7	413,3	384,0	344,0	288,0	219,5	136,8
VS 19/41	30	40	478,3		453,7	437,3	423,7	393,6	352,6	295,2	225,0	140,2
VS 19/42	30	40	490,0		464,8	448,0	434,0	403,2	361,2	302,4	230,4	143,6
VS 19/43	30	40	501,7		475,9	458,7	444,3	412,8	369,8	309,6	235,9	147,1
VS 19/44	30	40	513,3		486,9	469,3	454,7	422,4	378,4	316,8	241,4	150,5
VS 19/45	30	40	525,0		498,0	480,0	465,0	432,0	387,0	324,0	246,9	153,9
VS 19/46	30	40	536,7		509,1	490,7	475,3	441,6	395,6	331,2	252,4	157,3
VS 19/47	30	40	548,3		520,1	501,3	485,7	451,2	404,2	338,4	257,9	160,7
VS 19/48	30	40	560,0		531,2	512,0	496,0	460,8	412,8	345,6	263,4	164,2
VS 19/49	30	40	571,7		542,3	522,7	506,3	470,4	421,4	352,8	268,8	167,6
VS 19/50	37	50	583,3		553,3	533,3	516,7	480,0	430,0	360,0	274,3	171,0
VS 19/51	37	50	595,0		564,4	544,0	527,0	489,6	438,6	367,2	279,8	174,4
VS 19/52	37	50	606,7		575,5	554,7	537,3	499,2	447,2	374,4	285,3	177,8
VS 19/53	37	50	618,3		586,5	565,3	547,7	508,8	455,8	381,6	290,8	181,3
VS 19/54	37	50	630,0		597,6	576,0	558,0	518,4	464,4	388,8	296,3	184,7
VS 19/55	37	50	641,7		608,7	586,7	568,3	528,0	473,0	396,0	301,8	188,1
VS 19/56	37	50	653,3		619,7	597,3	578,7	537,6	481,6	403,2	307,3	191,5
VS 19/57	37	50	665,0		630,8	608,0	589,0	547,2	490,2	410,4	312,7	194,9
VS 19/58	37	50	676,7		641,9	618,7	599,3	556,8	498,8	417,6	318,2	198,4
VS 19/59	37	50	688,3		652,9	629,3	609,7	566,4	507,4	424,8	323,7	201,8
VS 19/60	37	50	700,0		664,0	640,0	620,0	576,0	516,0	432,0	329,2	205,2

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

VS30
TABLE OF HYDRAULIC PERFORMANCES AT 50Hz

PUMP TYPE	RATED POWER		Q = DELIVERY																	
			m³/h	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
			l/min	0	83,5	166,5	250	333,5	416,5	500	583,5	666,5	750	833,5	916,5	1000	1083,5	1166,5	1250	1333,5
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER [m]																	
VS 30/2	3,7	5	31,7			26,7	24,8	23	21	18,7	15,5	11,3								
VS 30/3	3,7	5	46,3			38,9	36	33,3	30,2	26,7	21,7	15,3								
VS 30/4	5,5	7,5	62,5			52,6	48,8	45,2	41,1	36,5	30	21,4								
VS 30/5	7,5	10	78,6			66,2	61,5	56,9	51,8	46,1	38	27,4								
VS 30/6	7,5	10	93,1			78,4	72,6	67,1	61	54	44,1	31,2								
VS 30/7	9,3	12,5	110			92,6	86	79,7	72,6	64,6	53,3	38,4								
VS 30/8	11	15	125,5			105,7	98,1	90,9	82,7	73,6	60,5	43,5								
VS 30/9	11	15	140,1			117,9	109,3	101,1	91,8	81,4	66,6	47,3								
VS 30/10	15	20	158,2			133,3	123,8	114,9	104,7	93,5	77,3	56,1								
VS 30/11	15	20	173			145,7	135,3	125,4	114,1	101,7	83,8	60,4								
VS 30/12	15	20	187,7			158	146,6	135,7	123,4	109,6	90	64,4								
VS 30/13	18,5	25	205,2			172,9	160,6	148,9	135,7	121,1	100	72,4								
VS 30/14	18,5	25	220			185,3	172,1	159,4	145,1	129,2	106,5	76,7								
VS 30/15	22	30	237			199,7	185,5	172,1	156,8	140	115,7	84								
VS 30/16	22	30	251,9			212,2	197,1	182,6	166,3	148,3	122,3	88,3								
VS 30/17	22	30	266,7			224,5	208,4	193	175,7	156,4	128,7	92,5								
VS 30/18	22	30	281,3			236,8	219,7	203,3	185	164,3	134,9	96,5								
VS 30/19	30	40	302,1			254,7	236,8	219,9	200,7	179,7	149,2	109,1								
VS 30/20	30	40	317,3			267,4	248,6	230,7	210,5	188,2	156	113,8								
VS 30/21	30	40	332,3			280	260,2	241,5	220,1	196,7	162,8	118,3								
VS 30/22	30	40	347,3			292,6	271,8	252,1	229,7	205	169,4	122,7								
VS 30/23	30	40	362,2			305,1	283,4	262,6	239,2	213,2	175,9	127								
VS 30/24	30	40	377			317,5	294,8	273,1	248,6	221,4	182,2	131,2								
VS 30/25	37	50	395,2			333	309,4	287	261,5	233,5	193,1	140,1								
VS 30/26	37	50	410,1			345,5	320,9	297,5	271,1	241,8	199,7	144,5								
VS 30/27	37	50	425			357,9	332,4	308,1	280,5	250	206,1	148,8								
VS 30/28	37	50	439,8			370,3	343,8	318,5	289,9	258,1	212,5	152,9								
VS 30/29	37	50	454,5			382,6	355,2	328,9	299,2	266,2	218,8	157								
VS 30/30	37	50	469,1			394,9	366,4	339,1	308,5	274,1	224,9	160,9								
VS 30/31	45	60	490			412,9	383,6	355,8	324,2	289,4	239,3	173,6								
VS 30/32	45	60	505			425,4	395,2	366,4	333,7	297,7	245,8	177,9								
VS 30/33	45	60	519,8			437,9	406,7	376,9	343,2	305,9	252,2	182,1								
VS 30/34	45	60	534,6			450,3	418,1	387,3	352,6	314	258,6	186,2								
VS 30/35	45	60	549,4			462,6	429,5	397,7	361,9	322	264,8	190,2								
VS 30/36	45	60	564,1			474,9	440,8	408	371,1	329,9	270,9	194,2								
VS 30/37	45	60	578,7			487,1	452	418,2	380,3	337,7	277	198								
VS 30/38	55	75	612,9			517,4	481,6	448,2	409,8	368,6	308,6	229,2								
VS 30/39	55	75	628,4			530,5	493,7	459,4	420	377,6	315,9	234,4								
VS 30/40	55	75	644			543,5	505,8	470,6	430,1	386,6	323,2	239,6								
VS 30/41	55	75	659,4			556,6	517,9	481,7	440,2	395,6	330,5	244,7								
VS 30/42	55	75	674,9			569,5	529,9	492,8	450,3	404,5	337,7	249,8								
VS 30/43	55	75	690,3			582,5	542	503,9	460,3	413,3	344,9	254,8								

VS46
TABLE OF HYDRAULIC PERFORMANCES AT 50Hz

PUMP TYPE	RATED POWER		Q = DELIVERY																	
			m³/h	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
			l/min	0	83,5	166,5	250	333,5	416,5	500	583,5	666,5	750	833,5	916,5	1000	1083,5	1166,5	1250	1333,5
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER [m]																	
VS 46/2	3	4	26,4					22,6	20,9	19,3	17,8	16,6	15,1	13,4	11,3					
VS 46/3	4	5,5	39,4					33,8	31,2	28,8	26,6	24,7	22,5	19,9	16,8					
VS 46/4	5,5	7,5	52,5					45	41,5	38,3	35,5	32,9	29,9	26,5	22,3					
VS 46/5	7,5	10	66,1					56,8	52,3	48,3	44,7	41,5	37,8	33,6	28,4					
VS 46/6	9,3	12,5	80,7					70	65,2	60,4	55,5	50,3	46	41,6	35,7					
VS 46/7	9,3	12,5	93,1					80,4	74,8	69,3	63,5	57,6	52,7	47,5	40,5					
VS 46/8	11	15	106,1					91,6	85,1	78,9	72,2	65,5	59,9	54	46					
VS 46/9	15	20	121,5					105,5	98,2	91	83,7	75,9	69,5	62,9	54,1					
VS 46/10	15	20	134					116,1	108	100,1	91,9	83,3	76,2	68,9	59					
VS 46/11	15	20	146,3					126,5	117,6	109	99,9	90,5	82,8	74,7	63,7					
VS 46/12	18,5	25	161,3					140	130,3	120,8	110,9	100,6	92	83,3	71,4					
VS 46/13	18,5	25	173,8					150,5	140	129,8	119	107,9	98,7	89,2	76,3					
VS 46/14	18,5	25	186,1					160,9	149,5	138,7	127	115,1	105,3	95	81					
VS 46/15	22	30	200,8					174,1	161,9	150,1	137,7	124,9	114,3	103,3	88,4					
VS 46/16	22	30	213,2					184,5	171,5	159,1	145,8	132,2	120,9	109,1	93,2					
VS 46/17	22	30	225,4					194,7	181	167,8	153,6	139,3	127,3	114,8	97,8					
VS 46/18	30	40	243,8					212,3	197,6	183,1	168,6	152,9	139,9	126,8	109,2					
VS 46/19	30	40	256,6					223,1	207,7	192,5	177	160,5	146,9	133	114,4					
VS 46/20	30	40	269,2					233,8	217,6	201,7	185,3	168,1	153,7	139,1	119,5					
VS 46/21	30	40	281,8					244,4	227,4	210,8	193,5	175,5	160,5	145,2	124,4					
VS 46/22	30	40	294,2					254,9	237	219,8	201,6	182,8	167,2	151,1	129,3					
VS 46/23	30	40	306,6					265,2	246,6	228,6	209,5	190	173,8	156,9	134					
VS 46/24	37	50	322,4					279,8	260,3	241,3	221,6	200,9	183,8	166,3	142,6					
VS 46/25	37	50	334,9					290,3	270	250,3	229,7	208,3	190,6	172,2	147,5					
VS 46/26	37	50	347,3					300,7	279,6	259,3	237,8	215,6	197,2	178,1	152,3					
VS 46/27	37	50	359,6					311,1	289,2	268,2	245,7	222,8	203,7	183,9	157					
VS 46/28	37	50	371,8					321,3	298,6	276,9	253,6	229,9	210,2	189,6	161,7					
VS 46/29	45	60	390,1					338,7	315,1	292,1	268,3	243,3	222,6	201,4	172,9					
VS 46/30	45	60	402,7					349,2	324,9	301,1	276,5	250,7	229,4	207,4	177,8					
VS 46/31	45	60	415,1					359,6	334,5	310,1	284,5	258	236	213,3	182,6					
VS 46/32	45	60	427,5					370	344,1	319	292,5	265,2	242,6	219,1	187,4					
VS 46/33	45	60	439,8					380,3	353,5	327,8	300,4	272,3	249,1	224,8	192					
VS 46/34	55	75	469,3					410,9	383,1	354,8	328	297,6	271,9	248,1	215,7					
VS 46/35	55	75	482,5					422,3	393,7	364,6	337	305,8	279,4	254,8	221,4					
VS 46/36	55	75	495,7					433,7	404,3	374,4	345,9	313,9	286,8	261,4	227					
VS 46/37	55	75	508,9					445	414,8	384,1	354,8	321,9	294,2	268,1	232,6					
VS 46/38	55	75	522					456,3	425,3	393,8	363,7	330	301,6	274,7	238,2					
VS 46/39	55	75	535,1					467,5	435,7	403,5	372,5	337,9	308,9	281,2	243,8					
VS 46/40	55	75	548,1					478,7	446,1	413,1	381,3	345,9	316,2	287,8	249,3					

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

VS65
TABLE OF HYDRAULIC PERFORMANCES AT 50Hz

PUMP TYPE	RATED POWER		Q = DELIVERY																	
			m³/h	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
			l/min	0	83,5	166,5	250	333,5	416,5	500	583,5	666,5	750	833,5	916,5	1000	1083,5	1166,5	1250	1333,5
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER [m]																	
VS 65/2	3,7	5	26,8								21,1	19	17,3	16,5	15,7	14,9	13,9	12,4	10,5	8,2
VS 65/3	5,5	7,5	40,4								31,8	28,8	26,2	24,9	23,7	22,5	21	18,9	16	12,6
VS 65/4	7,5	10	54								42,5	38,4	35	33,2	31,6	30,1	28	25,2	21,4	16,9
VS 65/5	9,3	12,5	68								53,8	48,7	44,3	41,9	40,1	38,2	35,6	32,2	27,5	22
VS 65/6	11	15	81,2								64	57,9	52,7	50	47,7	45,3	42,3	38,1	32,3	25,7
VS 65/7	15	20	94,9								76,2	70,1	65,2	61,7	58,6	55,7	52,1	46,1	39,7	33,4
VS 65/8	15	20	107,6								86	79,1	73,5	69,7	66,1	62,8	58,5	51,6	44,3	37
VS 65/9	15	20	120,1								95,5	87,8	81,5	77,4	73,4	69,6	64,6	56,8	48,6	40,2
VS 65/10	18,5	25	134,5								107,6	99	91,9	87,2	82,7	78,5	73,2	64,6	55,5	46,3
VS 65/11	18,5	25	147								117,2	107,8	100,1	95	90	85,4	79,4	69,8	59,9	49,6
VS 65/12	22	30	161,2								128,9	118,5	110,1	104,4	99,1	94,1	87,6	77,3	66,3	55,3
VS 65/13	22	30	173,7								138,5	127,3	118,2	112,2	106,4	101	93,8	82,5	70,8	58,6
VS 65/14	30	40	190,3								153,3	141	131,1	124	118	112	104,9	93	80,2	67,7
VS 65/15	30	40	203,2								163,4	150,2	139,6	132,2	125,7	119,3	111,5	98,7	85	71,5
VS 65/16	30	40	216								173,3	159,3	148	140,3	133,2	126,5	118,1	104,3	89,7	75,2
VS 65/17	30	40	228,6								183	168,3	156,3	148,2	140,7	133,5	124,4	109,8	94,3	78,8
VS 65/18	37	50	243,4								195,5	179,8	167	158,2	150,3	142,7	133,3	117,9	101,5	85,2
VS 65/19	37	50	256,1								205,3	188,8	175,4	166,2	157,9	149,9	139,8	123,5	106,1	88,9
VS 65/20	37	50	268,8								215	197,7	183,7	174,1	165,3	156,9	146,2	128,9	110,7	92,4
VS 65/21	37	50	281,4								224,6	206,5	191,8	182	172,6	163,8	152,4	134,2	115,1	95,7
VS 65/22	45	60	297,7								239,2	219,9	204,4	193,6	183,9	174,6	163,2	144,3	124,2	104,4
VS 65/23	45	60	310,5								249	229	212,7	201,6	191,4	181,7	169,6	149,8	128,9	108
VS 65/24	45	60	323,2								258,7	237,9	221	209,5	198,9	188,8	176	155,3	133,4	111,5
VS 65/25	45	60	335,8								268,4	246,7	229,2	217,3	206,2	195,7	182,2	160,6	137,9	114,9
VS 65/26	45	60	348,4								277,9	255,5	237,3	225,1	213,5	202,5	188,3	165,8	142,2	118,1
VS 65/27	55	75	372,8								303	278,8	259,3	244,7	233,4	221,6	208,5	186,4	161,6	137,5
VS 65/28	55	75	386,1								313,5	288,5	268,3	253,3	241,5	229,3	215,7	192,6	166,9	142
VS 65/29	55	75	399,4								324	298,1	277,2	261,8	249,5	237	222,8	198,8	172,2	146,4
VS 65/30	55	75	412,6								334,5	307,7	286,1	270,3	257,6	244,6	229,8	204,9	177,4	150,8
VS 65/31	55	75	425,8								344,9	317,3	295	278,7	265,5	252,2	236,8	211	182,6	155

VS Series Stainless Steel Submersible Pumps for 6" deep wells and larger

Technical Data and Performance Curves

50 Hz

VS 14

Technical data 50Hz

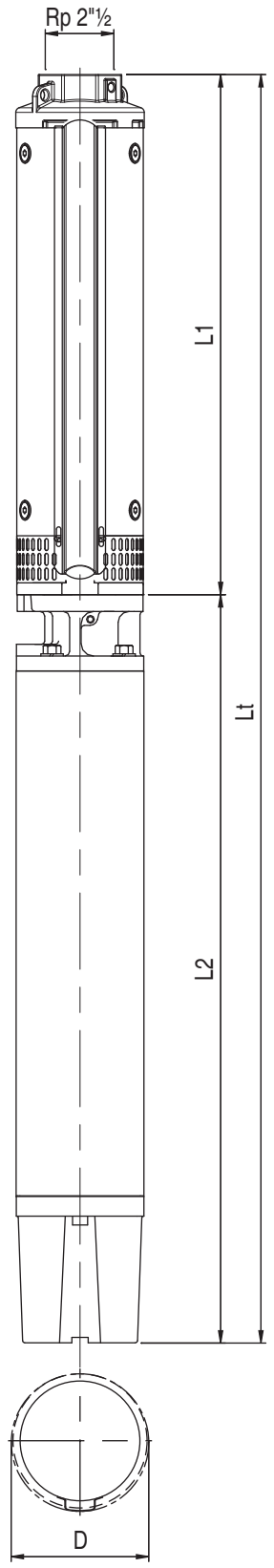
Pumps with Encapsulated Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 14/5	E4	2,2	3	383,5	422	805,5	142,5	-	26,5
VS 14/6	E4	3,7	5	413,5	520	933,5	142,5	-	32
VS 14/7	E4	3,7	5	443,5	520	963,5	142,5	-	32
VS 14/8	E4	3,7	5	473,5	520	993,5	142,5	-	33
VS 14/9	E4	5,5	7,5	503,5	652,5	1156	142,5	-	41
VS 14/10	E4	5,5	7,5	533,5	652,5	1186	142,5	-	41,5
VS 14/11	E4	5,5	7,5	563,5	652,5	1216	142,5	-	42,5
VS 14/12	E4	5,5	7,5	593,5	652,5	1246	142,5	-	43,5
VS 14/13	E4	5,5	7,5	623,5	652,5	1276	142,5	-	44
VS 14/14	E4	7,5	10	653,5	730,5	1384	142,5	-	49
VS 14/15	E4	7,5	10	683,5	730,5	1414	142,5	-	49,5
VS 14/16	E4	7,5	10	713,5	730,5	1444	142,5	-	50,5
VS 14/17	E4	7,5	10	743,5	730,5	1474	142,5	-	51
VS 14/5	E6	4	5,5	381	581	962	143	144,5	49
VS 14/6	E6	4	5,5	411	581	992	143	144,5	50
VS 14/7	E6	4	5,5	441	581	1022	143	144,5	50,5
VS 14/8	E6	4	5,5	471	581	1052	143	144,5	51,5
VS 14/9	E6	5,5	7,5	501	614,5	1115,5	143	144,5	55,5
VS 14/10	E6	5,5	7,5	531	614,5	1145,5	143	144,5	56
VS 14/11	E6	5,5	7,5	561	614,5	1175,5	143	144,5	57
VS 14/12	E6	5,5	7,5	591	614,5	1205,5	143	144,5	58
VS 14/13	E6	5,5	7,5	621	614,5	1235,5	143	144,5	58,5
VS 14/14	E6	7,5	10	651	646	1297	143	144,5	63,5
VS 14/15	E6	7,5	10	681	646	1327	143	144,5	64
VS 14/16	E6	7,5	10	711	646	1357	143	144,5	65
VS 14/17	E6	7,5	10	741	646	1387	143	144,5	65,5
VS 14/18	E6	9,3	12,5	771	678,5	1449,5	143	144,5	69
VS 14/19	E6	9,3	12,5	801	678,5	1479,5	143	144,5	69,5
VS 14/20	E6	9,3	12,5	831	678,5	1509,5	143	144,5	70,5
VS 14/21	E6	9,3	12,5	861	678,5	1539,5	143	144,5	71
VS 14/22	E6	9,3	12,5	891	678,5	1569,5	143	144,5	71,5
VS 14/23	E6	11	15	921	711	1632	143	144,5	76
VS 14/24	E6	11	15	951	711	1662	143	144,5	76,5
VS 14/25	E6	11	15	981	711	1692	143	144,5	77,5
VS 14/26	E6	11	15	1011	711	1722	143	144,5	78

Pumps with Rewindable Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 14/5	RW6	4	5,5	381	699	1080	147	147,5	59,5
VS 14/6	RW6	4	5,5	411	699	1110	147	147,5	60,5
VS 14/7	RW6	4	5,5	441	699	1140	147	147,5	61
VS 14/8	RW6	4	5,5	471	699	1170	147	147,5	62
VS 14/9	RW6	5,5	7,5	501	699	1200	147	147,5	62,5
VS 14/10	RW6	5,5	7,5	531	699	1230	147	147,5	63
VS 14/11	RW6	5,5	7,5	561	699	1260	147	147,5	64
VS 14/12	RW6	5,5	7,5	591	699	1290	147	147,5	65
VS 14/13	RW6	5,5	7,5	621	699	1320	147	147,5	65,5
VS 14/14	RW6	7,5	10	651	719	1370	147	147,5	68,5
VS 14/15	RW6	7,5	10	681	719	1400	147	147,5	69
VS 14/16	RW6	7,5	10	711	719	1430	147	147,5	70
VS 14/17	RW6	7,5	10	741	719	1460	147	147,5	70,5
VS 14/18	RW6	9,3	12,5	771	749	1520	147	147,5	74,5
VS 14/19	RW6	9,3	12,5	801	749	1550	147	147,5	75
VS 14/20	RW6	9,3	12,5	831	749	1580	147	147,5	76
VS 14/21	RW6	9,3	12,5	861	749	1610	147	147,5	76,5
VS 14/22	RW6	9,3	12,5	891	749	1640	147	147,5	77
VS 14/23	RW6	11	15	921	699	1620	147	147,5	81
VS 14/24	RW6	11	15	951	719	1670	147	147,5	81,5
VS 14/25	RW6	11	15	981	749	1730	147	147,5	82,5
VS 14/26	RW6	11	15	1011	779	1790	147	147,5	83

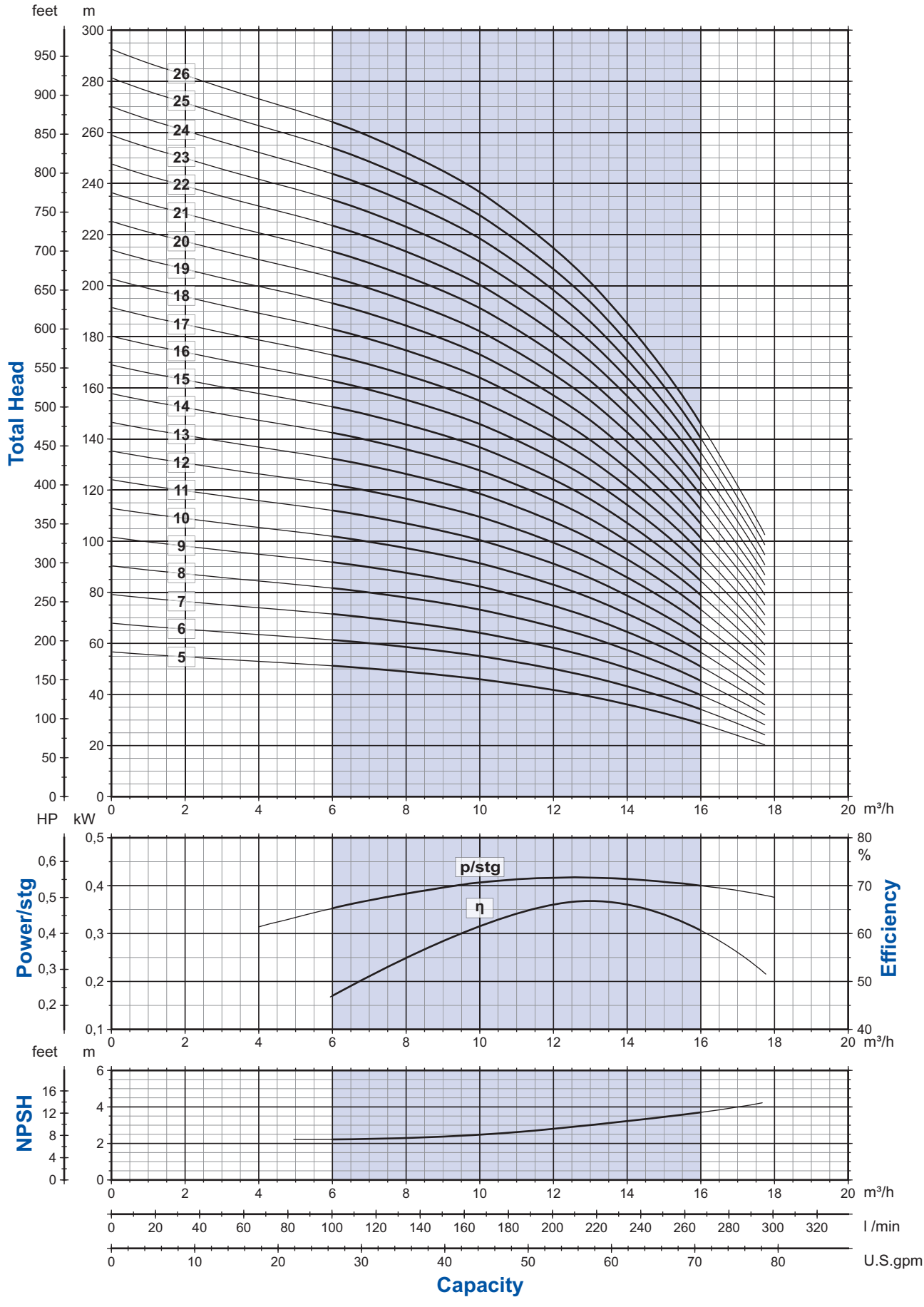
Dimensions



It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

E-Tech by Franklin Electric

Performance curves 50Hz



VS 14

Technical data 50Hz

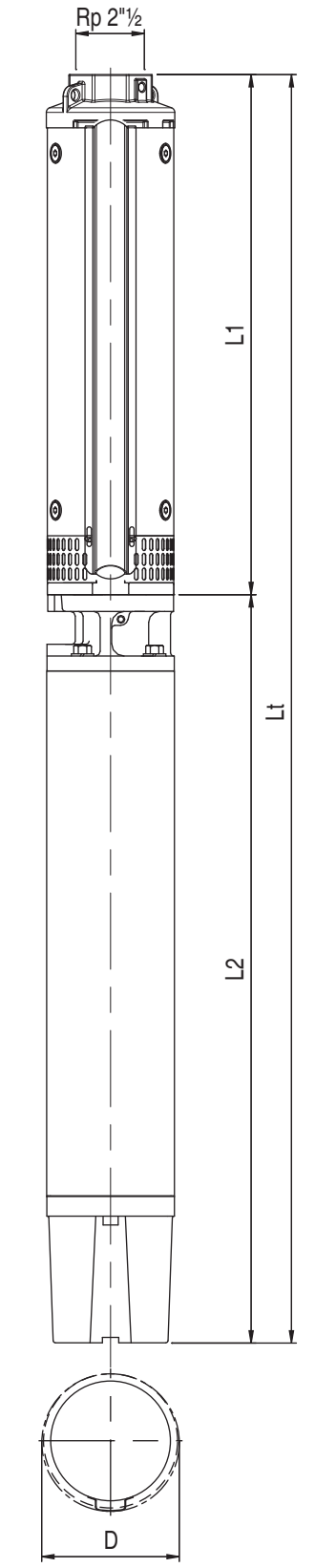
Pumps with Encapsulated Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 14/27	E6	15	20	1041	776	1817	143	144,5	85,5
VS 14/28	E6	15	20	1071	776	1847	143	144,5	85,5
VS 14/29	E6	15	20	1101	776	1877	143	144,5	87
VS 14/30	E6	15	20	1131	776	1907	143	144,5	87,5
VS 14/31	E6	15	20	1161	776	1937	143	144,5	87,5
VS 14/32	E6	15	20	1190,5	776	1966,5	143	144,5	88
VS 14/33	E6	15	20	1220,5	776	1996,5	143	144,5	89
VS 14/34	E6	15	20	1250,5	776	2026,5	143	144,5	90
VS 14/35	E6	15	20	1280,5	776	2056,5	143	144,5	90,5
VS 14/36	E6	15	20	1310,5	776	2086,5	143	144,5	91
VS 14/37	E6	18,5	25	1340,5	841,5	2182	143	144,5	99
VS 14/38	E6	18,5	25	1370,5	841,5	2212	143	144,5	99,5
VS 14/39	E6	18,5	25	1400,5	841,5	2242	143	144,5	101
VS 14/40	E6	18,5	25	1430,5	841,5	2272	143	144,5	102
VS 14/41	E6	18,5	25	1460,5	841,5	2302	143	144,5	102,5
VS 14/42	E6	18,5	25	1490,5	841,5	2332	143	144,5	102,5
VS 14/43	E6	18,5	25	1520,5	841,5	2362	143	144,5	103,5
VS 14/44	E6	18,5	25	1550,5	841,5	2392	143	144,5	104
VS 14/45	E6	22	30	1580,5	906,5	2487	143	144,5	111
VS 14/46	E6	22	30	1610,5	906,5	2517	143	144,5	111,5
VS 14/47	E6	22	30	1640,5	906,5	2547	143	144,5	112,5
VS 14/48	E6	22	30	1670	906,5	2576,5	143	144,5	113,5
VS 14/49	E6	22	30	1700,5	906,5	2607	143	144,5	114,5

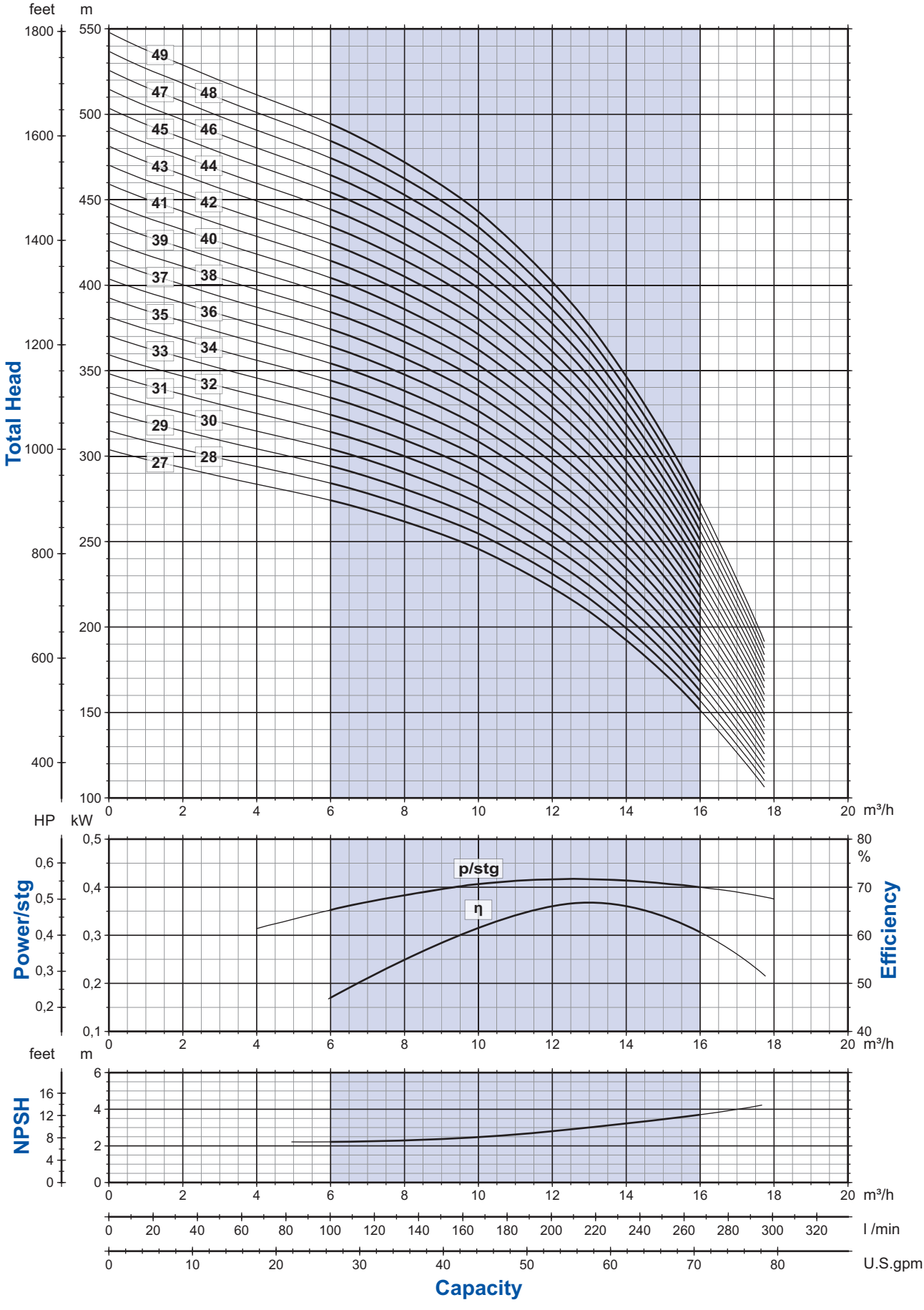
Pumps with Rewindable Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 14/27	RW6	13	17,5	1041	829	1870	147	147,5	90
VS 14/28	RW6	13	17,5	1071	829	1900	147	147,5	90
VS 14/29	RW6	13	17,5	1101	829	1930	147	147,5	91,5
VS 14/30	RW6	13	17,5	1131	829	1960	147	147,5	92
VS 14/31	RW6	13	17,5	1161	829	1990	147	147,5	92
VS 14/32	RW6	15	20	1190,5	874	2064,5	147	147,5	97,5
VS 14/33	RW6	15	20	1220,5	874	2094,5	147	147,5	98,5
VS 14/34	RW6	15	20	1250,5	874	2124,5	147	147,5	99,5
VS 14/35	RW6	15	20	1280,5	874	2154,5	147	147,5	100
VS 14/36	RW6	15	20	1310,5	874	2184,5	147	147,5	100,5
VS 14/37	RW6	18,5	25	1340,5	919	2259,5	147	147,5	105,5
VS 14/38	RW6	18,5	25	1370,5	919	2289,5	147	147,5	106
VS 14/39	RW6	18,5	25	1400,5	919	2319,5	147	147,5	107,5
VS 14/40	RW6	18,5	25	1430,5	919	2349,5	147	147,5	108,5
VS 14/41	RW6	18,5	25	1460,5	919	2379,5	147	147,5	109
VS 14/42	RW6	18,5	25	1490,5	919	2409,5	147	147,5	109
VS 14/43	RW6	18,5	25	1520,5	919	2439,5	147	147,5	110
VS 14/44	RW6	18,5	25	1550,5	919	2469,5	147	147,5	110,5
VS 14/45	RW6	22	30	1580,5	1009	2589,5	147	147,5	120,5
VS 14/46	RW6	22	30	1610,5	1009	2619,5	147	147,5	121
VS 14/47	RW6	22	30	1640,5	1009	2649,5	147	147,5	122
VS 14/48	RW6	22	30	1670	1009	2679	147	147,5	123
VS 14/49	RW6	22	30	1700,5	1009	2709,5	147	147,5	124

Dimensions



Performance curves 50Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

VS 14

Technical data 50Hz

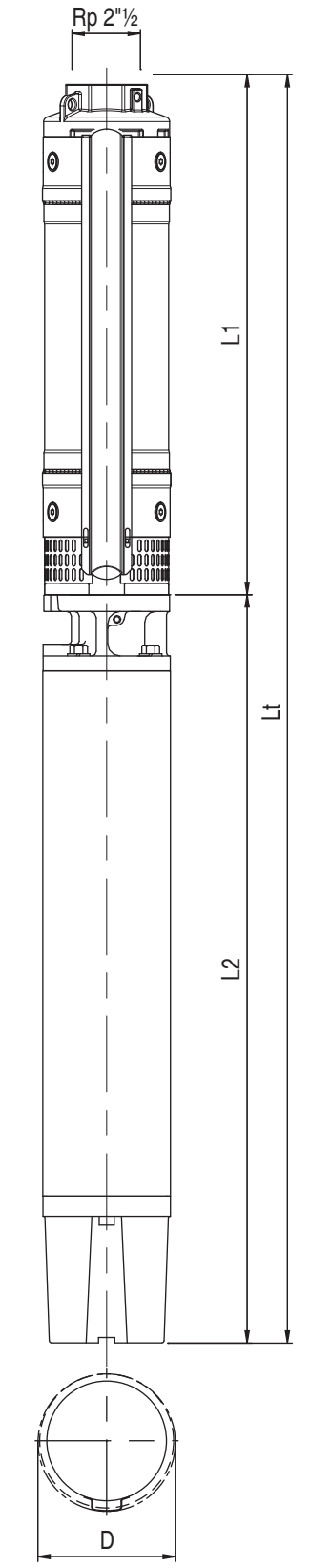
Pumps with Encapsulated Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 14/50	E6	22	30	1730,5	906,5	2637	143	144,5	115,5
VS 14/51	E6	22	30	1760,5	906,5	2667	143	144,5	116,5
VS 14/52	E6	22	30	1790,5	906,5	2697	145	146,5	117,5
VS 14/53	E6	30	40	1820,5	1036,5	2857	145	146,5	133
VS 14/54	E6	30	40	1850,5	1036,5	2887	145	146,5	133,5
VS 14/55	E6	30	40	1880,5	1036,5	2917	145	146,5	134,5
VS 14/56	E6	30	40	1910,5	1036,5	2947	145	146,5	135,5
VS 14/57	E6	30	40	1940,5	1036,5	2977	145	146,5	136
VS 14/58	E6	30	40	1970	1036,5	3006,5	145	146,5	137
VS 14/59	E6	30	40	2000	1036,5	3036,5	145	146,5	138
VS 14/60	E6	30	40	2030	1036,5	3066,5	145	146,5	139
VS 14/61	E6	30	40	2060	1036,5	3096,5	145	146,5	140

Pumps with Rewindable Motor

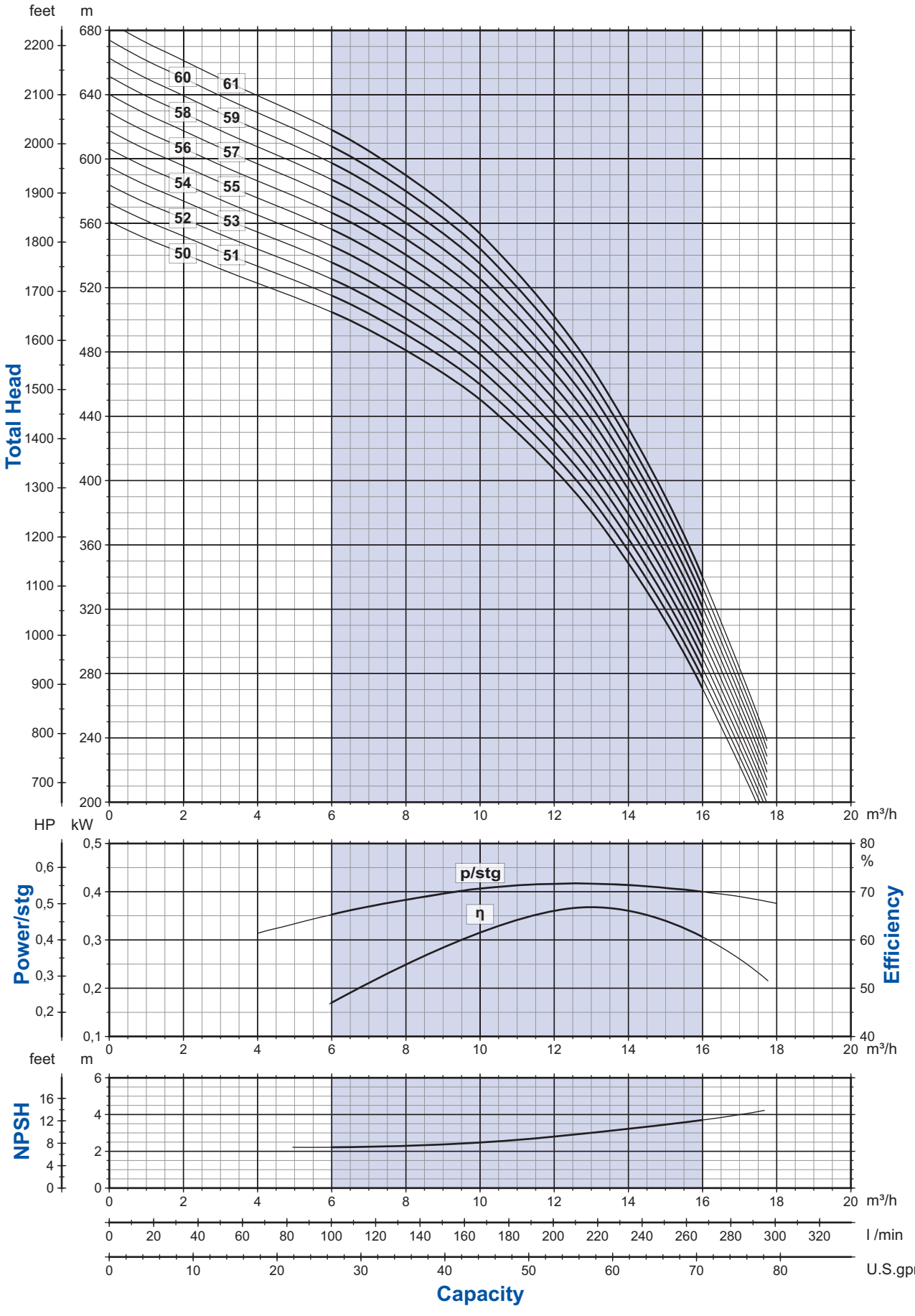
Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 14/50	RW6	22	30	1730,5	1009	2739,5	147	147,5	125
VS 14/51	RW6	22	30	1760,5	1009	2769,5	147	147,5	126
VS 14/52	RW6	22	30	1790,5	1009	2799,5	149	149,5	127
VS 14/53	RW6	26	35	1820,5	1114	2934,5	149	149,5	139
VS 14/54	RW6	26	35	1850,5	1114	2964,5	149	149,5	139,5
VS 14/55	RW6	26	35	1880,5	1114	2994,5	149	149,5	140,5
VS 14/56	RW6	26	35	1910,5	1114	3024,5	149	149,5	141,5
VS 14/57	RW6	26	35	1940,5	1114	3054,5	149	149,5	142
VS 14/58	RW6	26	35	1970	1114	3084	149	149,5	143
VS 14/59	RW6	26	35	2000	1114	3114	149	149,5	144
VS 14/60	RW6	26	35	2030	1114	3144	149	149,5	145
VS 14/61	RW6	26	35	2060	1114	3174	149	149,5	146

Dimensions



00114055 07/2010

Performance curves 50Hz



00110067 07/2010

The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

VS 19

Technical data 50Hz

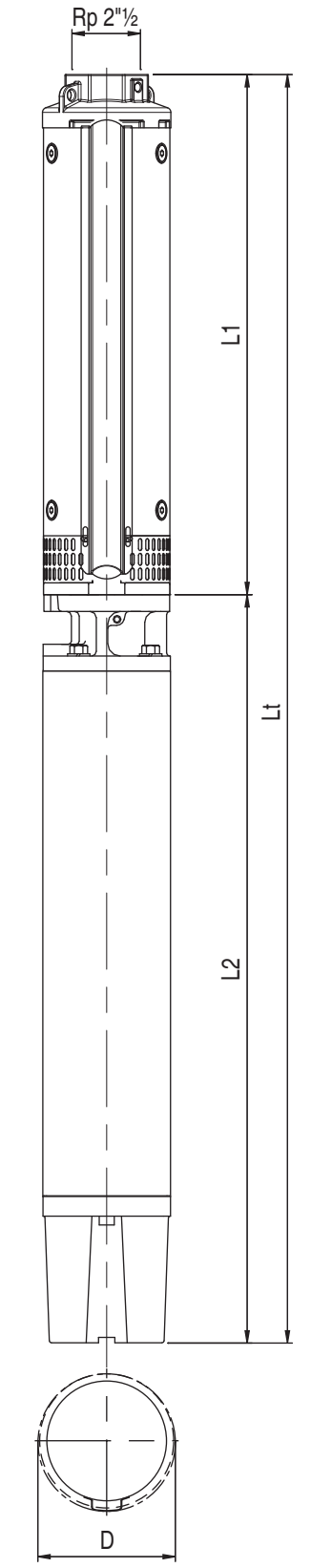
Pumps with Encapsulated Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 19/6	E4	3,7	5	460	520	980	142,5	-	31,5
VS 19/7	E4	5,5	7,5	497,5	652,5	1150	142,5	-	40
VS 19/8	E4	5,5	7,5	535	652,5	1187,5	142,5	-	41
VS 19/9	E4	5,5	7,5	572,5	652,5	1225	142,5	-	41,5
VS 19/10	E4	7,5	10	610	730,5	1340,5	142,5	-	46,5
VS 19/11	E4	7,5	10	647,5	730,5	1378	142,5	-	47,5
VS 19/12	E4	7,5	10	685	730,5	1415,5	142,5	-	48
VS 19/6	E6	4	5,5	457,5	581	1038,5	143	144,5	50
VS 19/7	E6	5,5	7,5	495	614,5	1109,5	143	144,5	54,5
VS 19/8	E6	5,5	7,5	532,5	614,5	1147	143	144,5	55,5
VS 19/9	E6	5,5	7,5	570	614,5	1184,5	143	144,5	56
VS 19/10	E6	7,5	10	607,5	646	1253,5	143	144,5	61
VS 19/11	E6	7,5	10	645	646	1291	143	144,5	62
VS 19/12	E6	7,5	10	682,5	646	1328,5	143	144,5	62,5
VS 19/13	E6	9,3	12,5	720	678,5	1398,5	143	144,5	66
VS 19/14	E6	9,3	12,5	757,5	678,5	1436	143	144,5	67
VS 19/15	E6	9,3	12,5	795	678,5	1473,5	143	144,5	67,5
VS 19/16	E6	11	15	832,5	711	1543,5	143	144,5	72
VS 19/17	E6	11	15	870	711	1581	143	144,5	73
VS 19/18	E6	11	15	907,5	711	1618,5	143	144,5	73,5
VS 19/19	E6	15	20	945	776	1721	143	144,5	80
VS 19/20	E6	15	20	982,5	776	1758,5	143	144,5	80,5
VS 19/21	E6	15	20	1020	776	1796	143	144,5	81,5
VS 19/22	E6	15	20	1057,5	776	1833,5	143	144,5	82,5
VS 19/23	E6	15	20	1095	776	1871	143	144,5	83
VS 19/24	E6	15	20	1132,5	776	1908,5	143	144,5	84

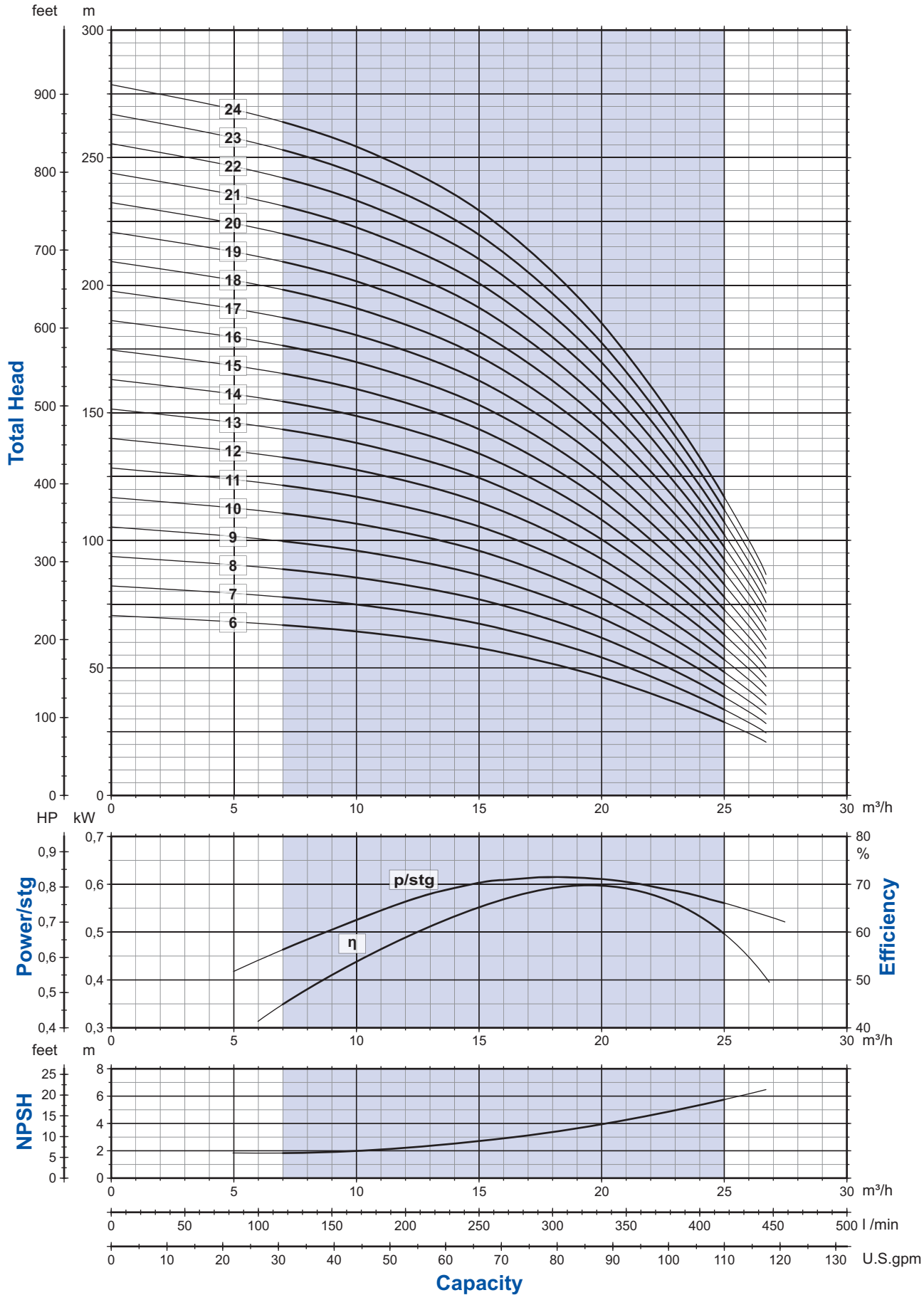
Pumps with Rewindable Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 19/6	RW6	4	5,5	457,5	699	1156,5	147	147,5	60,5
VS 19/7	RW6	5,5	7,5	495	699	1194	147	147,5	61,5
VS 19/8	RW6	5,5	7,5	532,5	699	1231,5	147	147,5	62,5
VS 19/9	RW6	5,5	7,5	570	699	1269	147	147,5	63
VS 19/10	RW6	7,5	10	607,5	719	1326,5	147	147,5	66
VS 19/11	RW6	7,5	10	645	719	1364	147	147,5	67
VS 19/12	RW6	7,5	10	682,5	719	1401,5	147	147,5	67,5
VS 19/13	RW6	9,3	12,5	720	749	1469	147	147,5	71,5
VS 19/14	RW6	9,3	12,5	757,5	749	1506,5	147	147,5	72,5
VS 19/15	RW6	9,3	12,5	795	749	1544	147	147,5	73
VS 19/16	RW6	11	15	832,5	779	1611,5	147	147,5	77
VS 19/17	RW6	11	15	870	779	1649	147	147,5	78
VS 19/18	RW6	11	15	907,5	779	1686,5	147	147,5	78,5
VS 19/19	RW6	13	17,5	945	829	1774	147	147,5	84,5
VS 19/20	RW6	13	17,5	982,5	829	1811,5	147	147,5	85
VS 19/21	RW6	13	17,5	1020	829	1849	147	147,5	86
VS 19/22	RW6	15	20	1057,5	874	1931,5	147	147,5	92
VS 19/23	RW6	15	20	1095	874	1969	147	147,5	92,5
VS 19/24	RW6	15	20	1132,5	874	2006,5	147	147,5	93,5

Dimensions



Performance curves 50Hz



VS 19

Technical data 50Hz

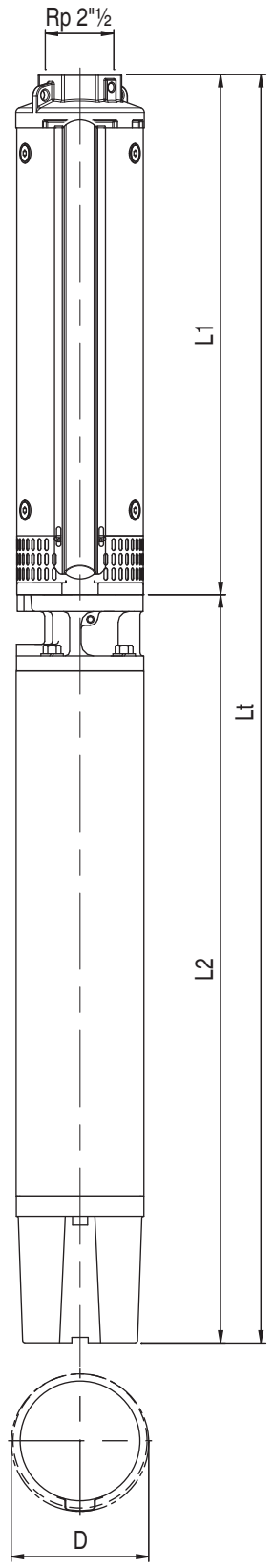
Pumps with Encapsulated Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 19/25	E6	18,5	25	1170	841,5	2011,5	143	144,5	92
VS 19/26	E6	18,5	25	1207,5	841,5	2049	143	144,5	92,5
VS 19/27	E6	18,5	25	1245	841,5	2086,5	143	144,5	94,5
VS 19/28	E6	18,5	25	1282	841,5	2123,5	143	144,5	94,5
VS 19/29	E6	18,5	25	1319,5	841,5	2161	143	144,5	95
VS 19/30	E6	18,5	25	1357	841,5	2198,5	143	144,5	96
VS 19/31	E6	22	30	1394,5	906,5	2301	143	144,5	103
VS 19/32	E6	22	30	1432	906,5	2338,5	143	144,5	103,5
VS 19/33	E6	22	30	1469,5	906,5	2376	143	144,5	104,5
VS 19/34	E6	22	30	1507	906,5	2413,5	143	144,5	105
VS 19/35	E6	22	30	1544,5	906,5	2451	143	144,5	106
VS 19/36	E6	22	30	1582	906,5	2488,5	143	144,5	106,5
VS 19/37	E6	30	40	1619,5	1036,5	2656	143	144,5	122,5
VS 19/38	E6	30	40	1657	1036,5	2693,5	143	144,5	124
VS 19/39	E6	30	40	1694,5	1036,5	2731	143	144,5	124
VS 19/40	E6	30	40	1732	1036,5	2768,5	143	144,5	124,5
VS 19/41	E6	30	40	1769,5	1036,5	2806	143	144,5	126
VS 19/42	E6	30	40	1807	1036,5	2843,5	143	144,5	127
VS 19/43	E6	30	40	1844,5	1036,5	2881	143	144,5	128
VS 19/44	E6	30	40	1882	1036,5	2918,5	143	144,5	129
VS 19/45	E6	30	40	1919,5	1036,5	2956	143	144,5	130
VS 19/46	E6	30	40	1956,5	1036,5	2993	143	144,5	131

Pumps with Rewindable Motor

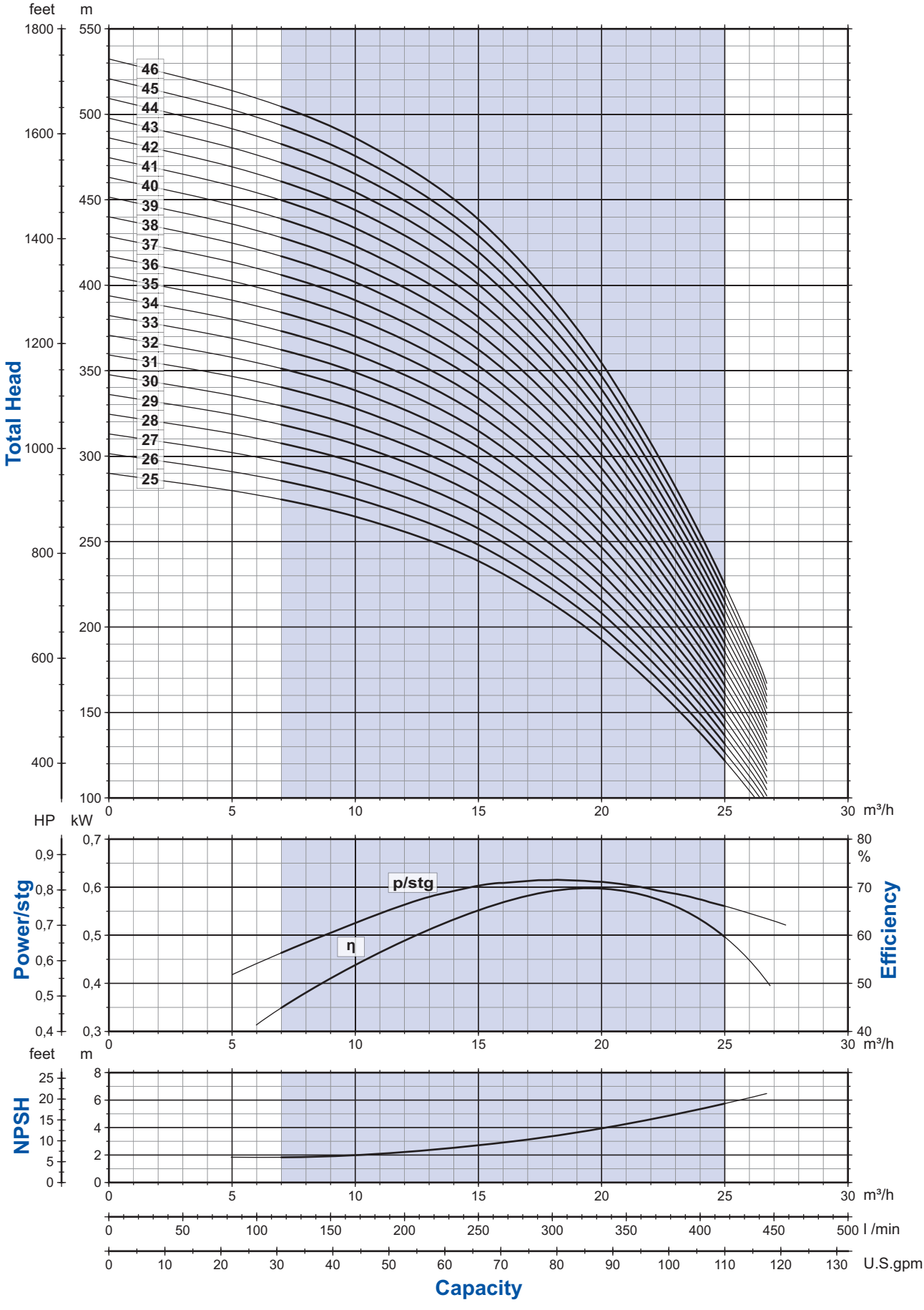
Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 19/25	RW6	18,5	25	1170	919	2089	147	147,5	98,5
VS 19/26	RW6	18,5	25	1207,5	919	2126,5	147	147,5	99
VS 19/27	RW6	18,5	25	1245	919	2164	147	147,5	101
VS 19/28	RW6	18,5	25	1282	919	2201	147	147,5	101
VS 19/29	RW6	18,5	25	1319,5	919	2238,5	147	147,5	101,5
VS 19/30	RW6	18,5	25	1357	919	2276	147	147,5	102,5
VS 19/31	RW6	22	30	1394,5	1009	2403,5	147	147,5	112,5
VS 19/32	RW6	22	30	1432	1009	2441	147	147,5	113
VS 19/33	RW6	22	30	1469,5	1009	2478,5	147	147,5	114
VS 19/34	RW6	22	30	1507	1009	2516	147	147,5	114,5
VS 19/35	RW6	22	30	1544,5	1009	2553,5	147	147,5	115,5
VS 19/36	RW6	22	30	1582	1009	2591	147	147,5	116
VS 19/37	RW6	26	35	1619,5	1114	2733,5	147	147,5	128,5
VS 19/38	RW6	26	35	1657	1114	2771	147	147,5	130
VS 19/39	RW6	26	35	1694,5	1114	2808,5	147	147,5	130
VS 19/40	RW6	26	35	1732	1114	2846	147	147,5	130,5
VS 19/41	RW6	26	35	1769,5	1114	2883,5	147	147,5	132
VS 19/42	RW6	26	35	1807	1114	2921	147	147,5	133
VS 19/43	RW6	30	40	1844,5	1214	3058,5	147	147,5	144
VS 19/44	RW6	30	40	1882	1214	3096	147	147,5	145
VS 19/45	RW6	30	40	1919,5	1214	3133,5	147	147,5	146
VS 19/46	RW6	30	40	1956,5	1214	3170,5	147	147,5	147

Dimensions



It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

Performance curves 50Hz



VS 19

Technical data 50Hz

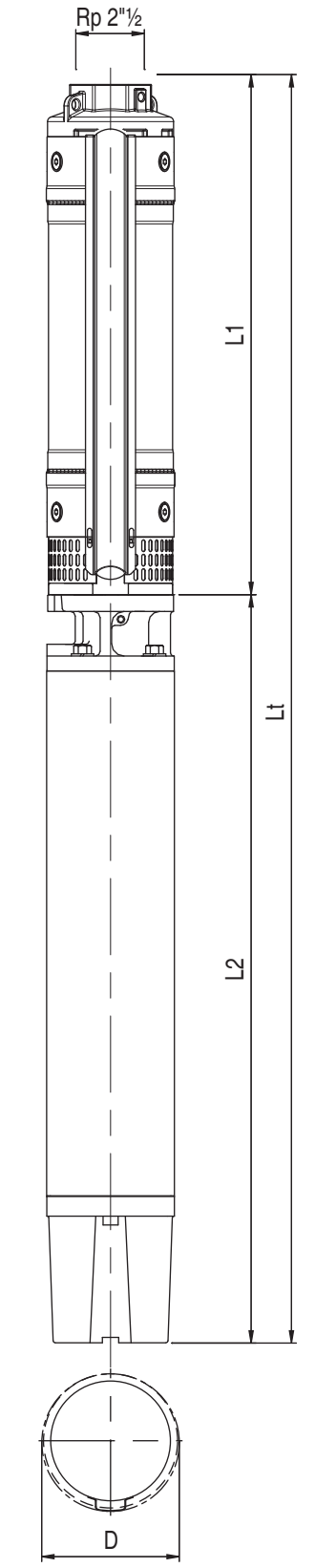
Pumps with Encapsulated Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 19/47	E6	30	40	1994	1036,5	3030,5	143	144,5	131,5
VS 19/48	E6	30	40	2031,5	1036,5	3068	143	144,5	132
VS 19/49	E6	30	40	2069	1036,5	3105,5	145	146,5	134
VS 19/50	E6	37	50	2106,5	1421,5	3528	145	146,5	189
VS 19/51	E6	37	50	2144	1421,5	3565,5	145	146,5	190
VS 19/52	E6	37	50	2181,5	1421,5	3603	145	146,5	191
VS 19/53	E6	37	50	2219	1421,5	3640,5	145	146,5	192
VS 19/54	E6	37	50	2256,5	1421,5	3678	145	146,5	193
VS 19/55	E6	37	50	2294	1421,5	3715,5	145	146,5	194
VS 19/56	E6	37	50	2331,5	1421,5	3753	145	146,5	195
VS 19/57	E6	37	50	2369	1421,5	3790,5	145	146,5	196
VS 19/58	E6	37	50	2406,5	1421,5	3828	145	146,5	197
VS 19/59	E6	37	50	2444	1421,5	3865,5	145	146,5	198
VS 19/60	E6	37	50	2481,5	1421,5	3903	145	146,5	199

Pumps with Rewindable Motor

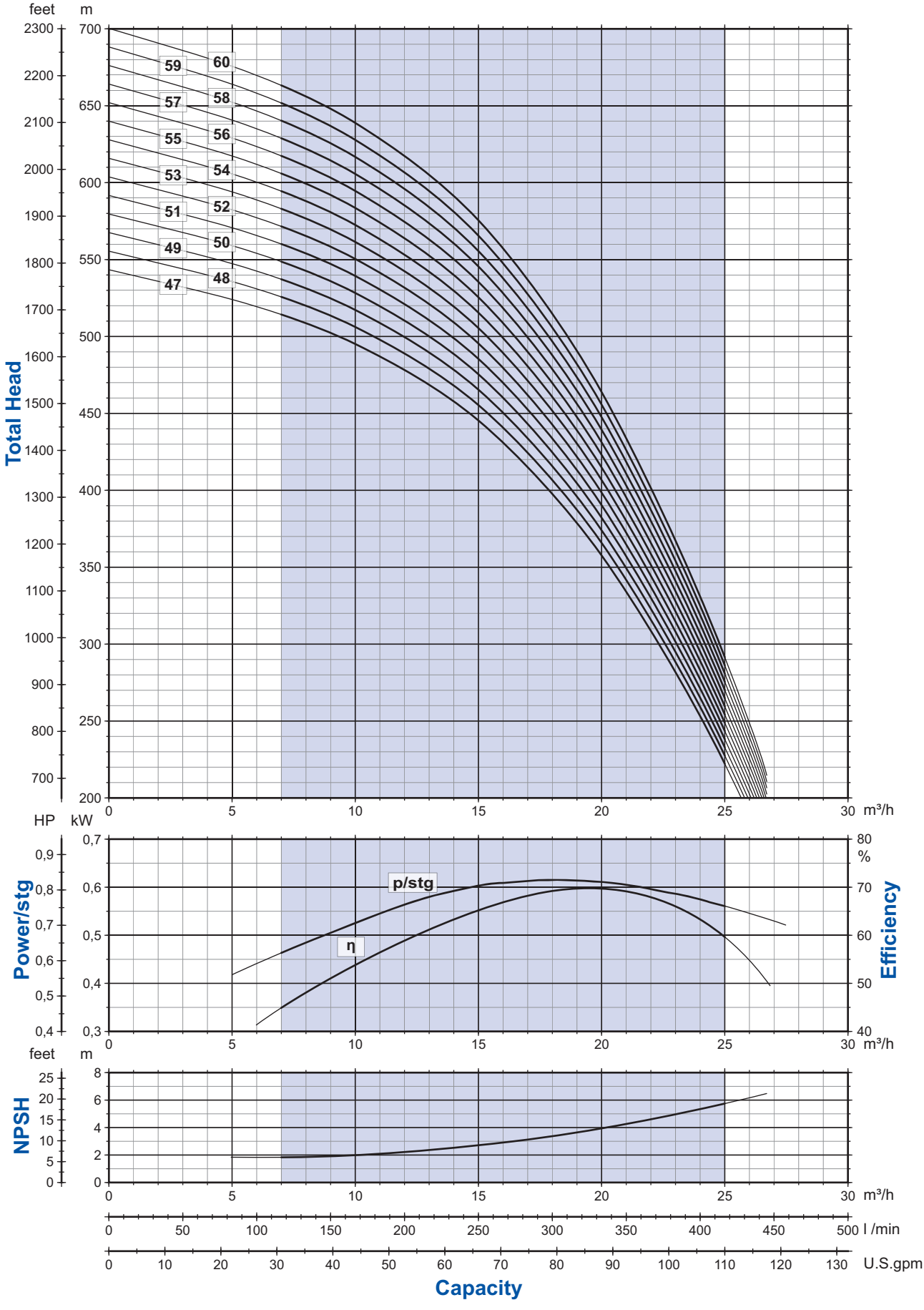
Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 19/47	RW6	30	40	1994	1214	3208	147	147,5	147,5
VS 19/48	RW6	30	40	2031,5	1214	3245,5	147	147,5	148
VS 19/49	RW6	30	40	2069	1214	3283	149	149,5	150
VS 19/50	RW6	37	50	2106,5	1294	3400,5	149	149,5	158
VS 19/51	RW6	37	50	2144	1294	3438	149	149,5	159
VS 19/52	RW6	37	50	2181,5	1294	3475,5	149	149,5	160
VS 19/53	RW6	37	50	2219	1294	3513	149	149,5	161
VS 19/54	RW6	37	50	2256,5	1294	3550,5	149	149,5	162
VS 19/55	RW6	37	50	2294	1294	3588	149	149,5	163
VS 19/56	RW6	37	50	2331,5	1294	3625,5	149	149,5	164
VS 19/57	RW6	37	50	2369	1294	3663	149	149,5	165
VS 19/58	RW6	37	50	2406,5	1294	3700,5	149	149,5	166
VS 19/59	RW6	37	50	2444	1294	3738	149	149,5	167
VS 19/60	RW6	37	50	2481,5	1294	3775,5	149	149,5	168

Dimensions



It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

Performance curves 50Hz



VS 30

Technical data 50Hz

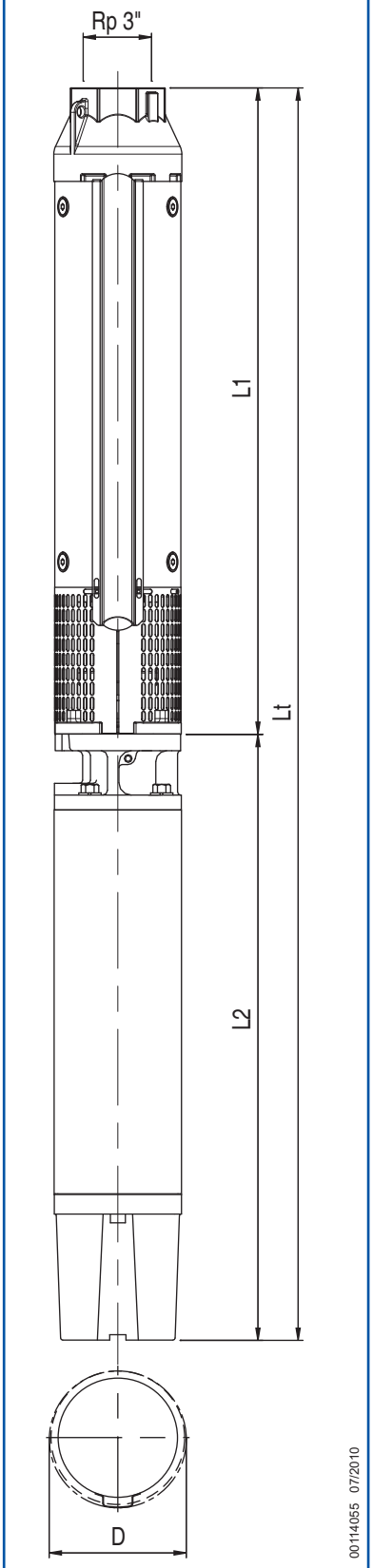
Pumps with Encapsulated Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 30/3	E4	3,7	5	622	520	1142	142,5	-	34
VS 30/4	E4	5,5	7,5	707,5	652,5	1360	142,5	-	43,5
VS 30/5	E4	7,5	10	793	730,5	1523,5	142,5	-	50
VS 30/6	E4	7,5	10	878,5	730,5	1609	142,5	-	52
VS 30/3	E6	4	5,5	620	581	1201	143	144,5	52
VS 30/4	E6	5,5	7,5	705,5	614,5	1320	143	144,5	58
VS 30/5	E6	7,5	10	790,5	646	1436,5	143	144,5	64
VS 30/6	E6	7,5	10	876	646	1522	143	144,5	66
VS 30/7	E6	9,3	12,5	961,5	678,5	1640	143	144,5	70,5
VS 30/8	E6	11	15	1047	711	1758	143	144,5	76,5
VS 30/9	E6	11	15	1132,5	711	1843,5	143	144,5	78,5
VS 30/10	E6	15	20	1218	776	1994	143	144,5	86
VS 30/11	E6	15	20	1303,5	776	2079,5	143	144,5	88
VS 30/12	E6	15	20	1389	776	2165	143	144,5	90
VS 30/13	E6	18,5	25	1474,5	841,5	2316	143	144,5	99
VS 30/14	E6	18,5	25	1560	841,5	2401,5	143	144,5	101,5
VS 30/15	E6	22	30	1645,5	906,5	2552	143	144,5	109,5
VS 30/16	E6	22	30	1730,5	906,5	2637	143	144,5	111,5
VS 30/17	E6	22	30	1816	906,5	2722,5	143	144,5	113,5
VS 30/18	E6	22	30	1901,5	906,5	2808	143	144,5	115,5
VS 30/19	E6	30	40	1987	1036,5	3023,5	143	144,5	132
VS 30/20	E6	30	40	2072,5	1036,5	3109	143	144,5	134,5
VS 30/21	E6	30	40	2157,5	1036,5	3194	143	144,5	136,5
VS 30/22	E6	30	40	2243	1036,5	3279,5	143	144,5	138,5
VS 30/23	E6	30	40	2328,5	1036,5	3365	143	144,5	140,5
VS 30/24	E6	30	40	2414	1036,5	3450,5	143	144,5	142,5
VS 30/25	E6	37	50	2499	1421,5	3920,5	143	144,5	199
VS 30/26	E6	37	50	2584,5	1421,5	4006	143	144,5	201
VS 30/27	E6	37	50	2670	1421,5	4091,5	143	144,5	203
VS 30/28	E6	37	50	2755	1421,5	4176,5	143	144,5	205
VS 30/29	E6	37	50	2840,5	1421,5	4262	143	144,5	207
VS 30/30	E6	37	50	2926	1421,5	4347,5	143	144,5	209,5
VS 30/31	E6	45	60	3011	1574	4585	143	144,5	224,5
VS 30/32	E6	45	60	3096,5	1574	4670,5	143	144,5	227,5
VS 30/33	E6	45	60	3182	1574	4756	143	144,5	229,5
VS 30/34	E6	45	60	3267,5	1574	4841,5	143	144,5	231,5
VS 30/35	E6	45	60	3352,5	1574	4926,5	143	144,5	234

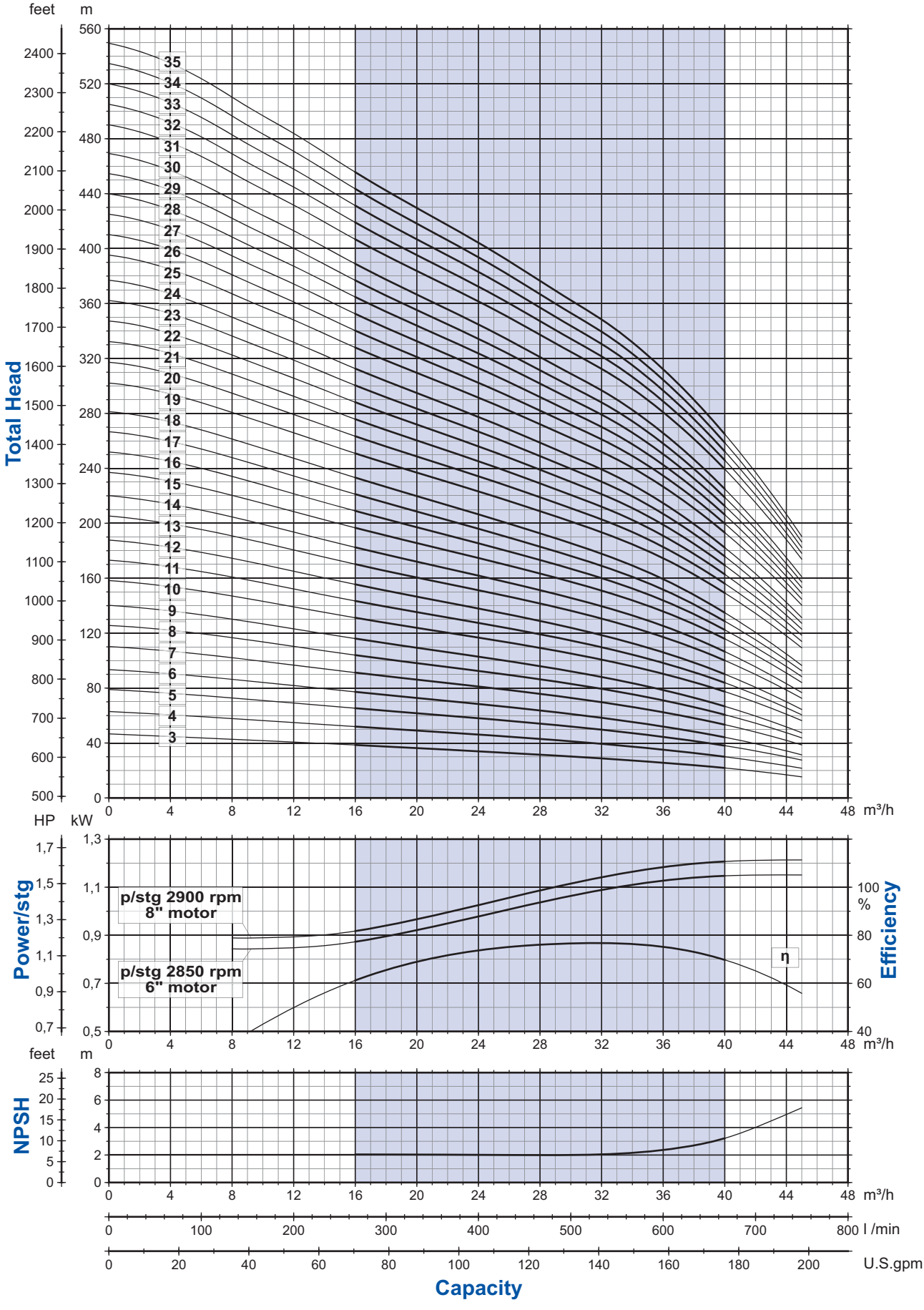
Pumps with Rewindable Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 30/3	RW6	4	5,5	620	699	1319	147	147,5	62,5
VS 30/4	RW6	5,5	7,5	705,5	699	1404,5	147	147,5	65
VS 30/5	RW6	7,5	10	790,5	719	1509,5	147	147,5	69
VS 30/6	RW6	7,5	10	876	719	1595	147	147,5	71
VS 30/7	RW6	9,3	12,5	961,5	749	1710,5	147	147,5	76
VS 30/8	RW6	11	15	1047	779	1826	147	147,5	81,5
VS 30/9	RW6	11	15	1132,5	779	1911,5	147	147,5	83,5
VS 30/10	RW6	13	17,5	1218	829	2047	147	147,5	90,5
VS 30/11	RW6	15	20	1303,5	874	2177,5	147	147,5	97,5
VS 30/12	RW6	15	20	1389	874	2263	147	147,5	99,5
VS 30/13	RW6	18,5	25	1474,5	919	2393,5	147	147,5	105,5
VS 30/14	RW6	18,5	25	1560	919	2479	147	147,5	108
VS 30/15	RW6	22	30	1645,5	1009	2654,5	147	147,5	119
VS 30/16	RW6	22	30	1730,5	1009	2739,5	147	147,5	121
VS 30/17	RW6	22	30	1816	1009	2825	147	147,5	123
VS 30/18	RW6	22	30	1901,5	1009	2910,5	147	147,5	125
VS 30/19	RW6	26	35	1987	1114	3101	147	147,5	138
VS 30/20	RW6	26	35	2072,5	1114	3186,5	147	147,5	140,5
VS 30/21	RW6	26	35	2157,5	1114	3271,5	147	147,5	142,5
VS 30/22	RW6	30	40	2243	1214	3457	147	147,5	154,5
VS 30/23	RW6	30	40	2328,5	1214	3542,5	147	147,5	156,5
VS 30/24	RW6	30	40	2414	1214	3628	147	147,5	158,5
VS 30/25	RW6	37	50	2499	1294	3793	147	147,5	168
VS 30/26	RW6	37	50	2584,5	1294	3878,5	147	147,5	170
VS 30/27	RW6	37	50	2670	1294	3964	147	147,5	172
VS 30/28	RW6	37	50	2755	1294	4049	147	147,5	174
VS 30/29	RW6	37	50	2840,5	1294	4134,5	147	147,5	176
VS 30/30	RW6	37	50	2926	1294	4220	147	147,5	178,5
VS 30/31	RW8	45	60	3111	1230	4341	189	189	234,5
VS 30/32	RW8	45	60	3196,5	1230	4426,5	189	189	237,5
VS 30/33	RW8	45	60	3282	1230	4512	189	189	239,5
VS 30/34	RW8	45	60	3367,5	1230	4597,5	189	189	241,5
VS 30/35	RW8	45	60	3452,5	1230	4682,5	189	189	244

Dimensions



Performance curves 50Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

VS 30

Technical data 50Hz

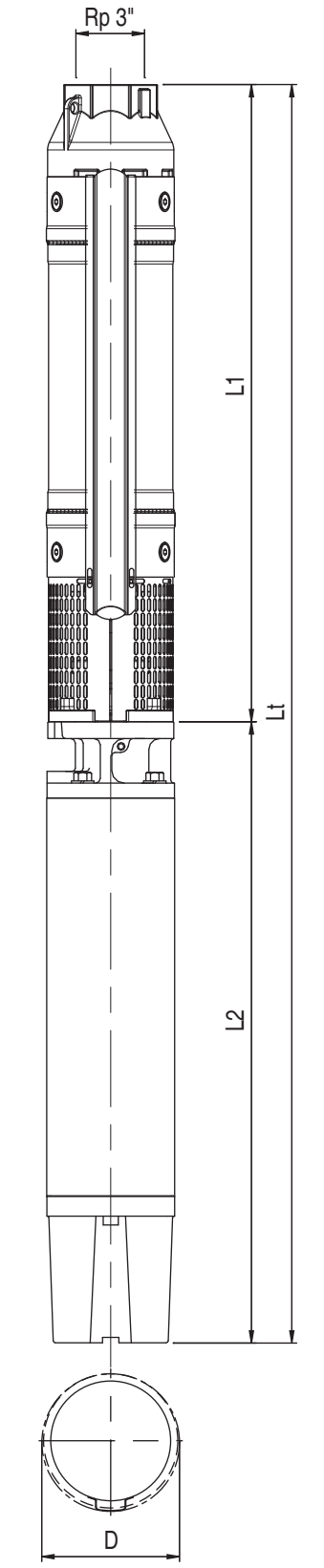
Pumps with Encapsulated Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 30/36	E6	45	60	3438	1574	5012	145	146,5	237
VS 30/37	E6	45	60	3523,5	1574	5097,5	145	146,5	239
VS 30/38	E8	55	75	3709	1204	4913	190,5	190,5	270,5
VS 30/39	E8	55	75	3794	1204	4998	190,5	190,5	272,5
VS 30/40	E8	55	75	3879,5	1204	5083,5	190,5	190,5	275
VS 30/41	E8	55	75	3965	1204	5169	190,5	190,5	276
VS 30/42	E8	55	75	4050,5	1204	5254,5	190,5	190,5	277
VS 30/43	E8	55	75	4135,5	1204	5339,5	190,5	190,5	278

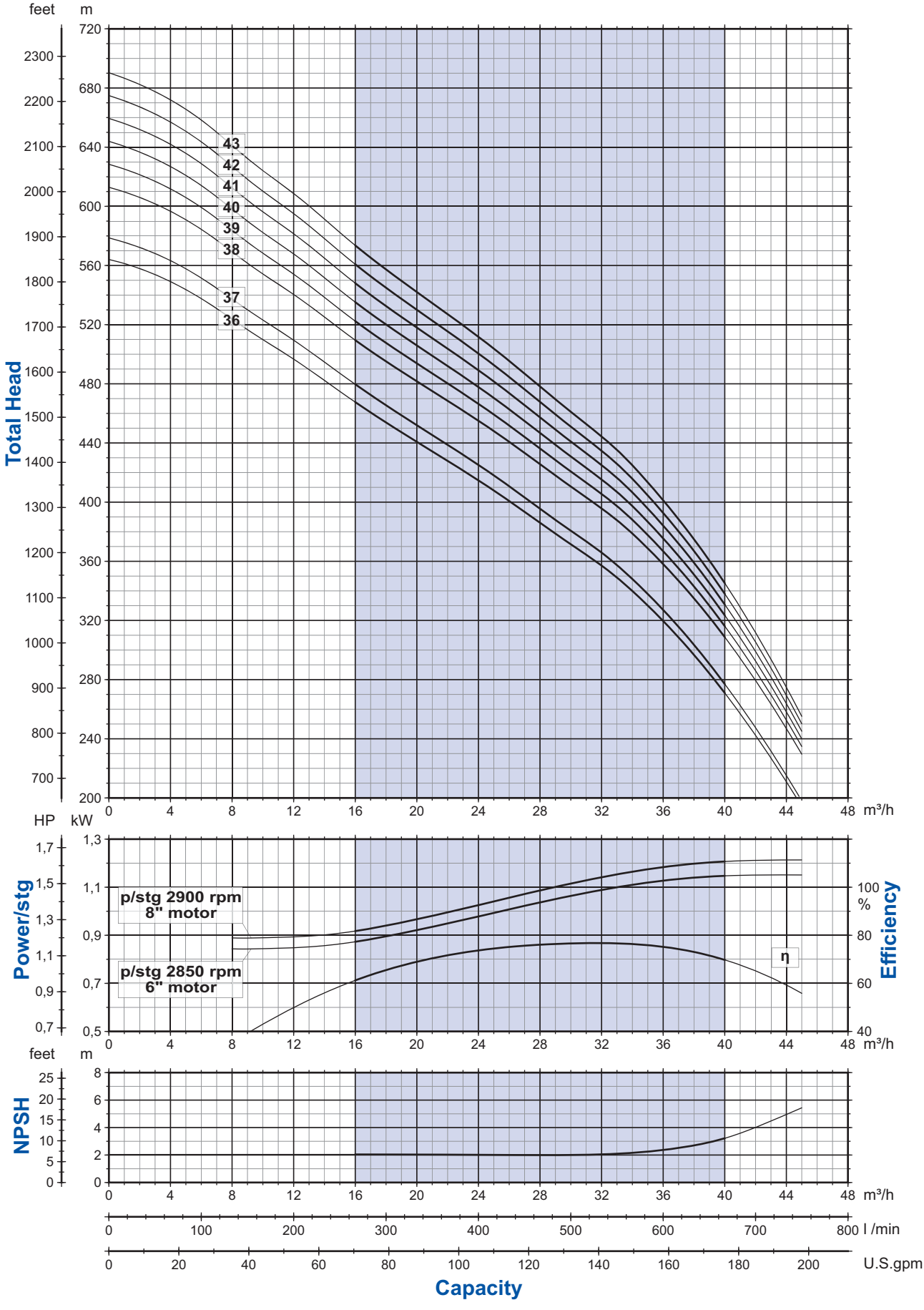
Pumps with Rewindable Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 30/36	RW8	45	60	3538	1230	4768	189	189	247
VS 30/37	RW8	45	60	3623,5	1230	4853,5	189	189	249
VS 30/38	RW8	55	75	3709	1340	5049	189	189	274,5
VS 30/39	RW8	55	75	3794	1340	5134	189	189	276,5
VS 30/40	RW8	55	75	3879,5	1340	5219,5	189	189	279
VS 30/41	RW8	55	75	3965	1340	5305	189	189	280
VS 30/42	RW8	55	75	4050,5	1340	5390,5	189	189	281
VS 30/43	RW8	55	75	4135,5	1340	5475,5	189	189	282

Dimensions



Performance curves 50Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

VS 46

Technical data 50Hz

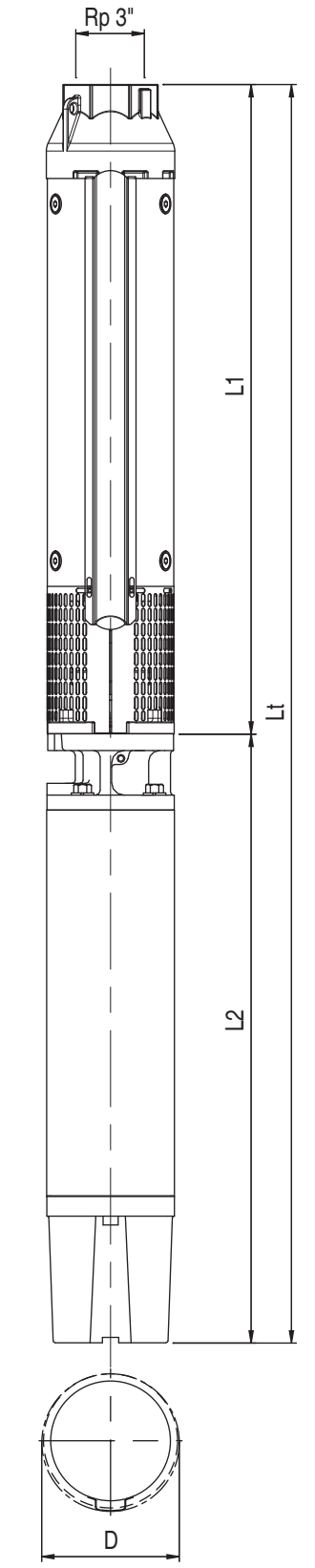
Pumps with Encapsulated Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 46/2	E4	3	4	593,5	477	1070,5	142,5	-	31
VS 46/3	E4	4	5,5	707,5	543	1250,5	142,5	-	36,5
VS 46/4	E4	5,5	7,5	821,5	652,5	1474	142,5	-	45,5
VS 46/5	E4	7,5	10	935,5	730,5	1666	142,5	-	52,5
VS 46/2	E6	4	5,5	591,5	581	1172,5	143	144,5	51
VS 46/3	E6	4	5,5	705,5	581	1286,5	143	144,5	53,5
VS 46/4	E6	5,5	7,5	819,5	614,5	1434	143	144,5	60
VS 46/5	E6	7,5	10	933,5	646	1579,5	143	144,5	66,5
VS 46/6	E6	9,3	12,5	1047	678,5	1725,5	143	144,5	71,5
VS 46/7	E6	9,3	12,5	1161	678,5	1839,5	143	144,5	74
VS 46/8	E6	11	15	1275	711	1986	143	144,5	80
VS 46/9	E6	15	20	1389	776	2165	143	144,5	88,5
VS 46/10	E6	15	20	1503	776	2279	143	144,5	91
VS 46/11	E6	15	20	1617	776	2393	143	144,5	93,5
VS 46/12	E6	18,5	25	1730,5	841,5	2572	143	144,5	103
VS 46/13	E6	18,5	25	1844,5	841,5	2686	143	144,5	105,5
VS 46/14	E6	18,5	25	1958,5	841,5	2800	143	144,5	108,5
VS 46/15	E6	22	30	2072,5	906,5	2979	143	144,5	117
VS 46/16	E6	22	30	2186	906,5	3092,5	143	144,5	119,5
VS 46/17	E6	22	30	2300	906,5	3206,5	143	144,5	122
VS 46/18	E6	30	40	2414	1036,5	3450,5	143	144,5	139,5
VS 46/19	E6	30	40	2527,5	1036,5	3564	143	144,5	142
VS 46/20	E6	30	40	2641,5	1036,5	3678	143	144,5	144,5
VS 46/21	E6	30	40	2755	1036,5	3791,5	143	144,5	147
VS 46/22	E6	30	40	2869	1036,5	3905,5	143	144,5	149,5
VS 46/23	E6	30	40	2983	1036,5	4019,5	143	144,5	152,5
VS 46/24	E6	37	50	3096,5	1421,5	4518	143	144,5	209
VS 46/25	E6	37	50	3210,5	1421,5	4632	143	144,5	211,5
VS 46/26	E6	37	50	3324	1421,5	4745,5	143	144,5	214

Pumps with Rewindable Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 46/2	RW6	4	5,5	591,5	699	1290,5	147	147,5	61,5
VS 46/3	RW6	4	5,5	705,5	699	1404,5	147	147,5	64
VS 46/4	RW6	5,5	7,5	819,5	699	1518,5	147	147,5	67
VS 46/5	RW6	7,5	10	933,5	719	1652,5	147	147,5	71,5
VS 46/6	RW6	9,3	12,5	1047	749	1796	147	147,5	77
VS 46/7	RW6	9,3	12,5	1161	749	1910	147	147,5	79,5
VS 46/8	RW6	11	15	1275	779	2054	147	147,5	85
VS 46/9	RW6	13	17,5	1389	829	2218	147	147,5	93
VS 46/10	RW6	13	17,5	1503	829	2332	147	147,5	95,5
VS 46/11	RW6	15	20	1617	874	2491	147	147,5	103
VS 46/12	RW6	18,5	25	1730,5	919	2649,5	147	147,5	109,5
VS 46/13	RW6	18,5	25	1844,5	919	2763,5	147	147,5	112
VS 46/14	RW6	18,5	25	1958,5	919	2877,5	147	147,5	115
VS 46/15	RW6	22	30	2072,5	1009	3081,5	147	147,5	126,5
VS 46/16	RW6	22	30	2186	1009	3195	147	147,5	129
VS 46/17	RW6	22	30	2300	1009	3309	147	147,5	131,5
VS 46/18	RW6	26	35	2414	1114	3528	147	147,5	145,5
VS 46/19	RW6	26	35	2527,5	1114	3641,5	147	147,5	148
VS 46/20	RW6	30	40	2641,5	1214	3855,5	147	147,5	160,5
VS 46/21	RW6	30	40	2755	1214	3969	147	147,5	163
VS 46/22	RW6	30	40	2869	1214	4083	147	147,5	165,5
VS 46/23	RW6	30	40	2983	1214	4197	147	147,5	168,5
VS 46/24	RW6	37	50	3096,5	1294	4390,5	147	147,5	178
VS 46/25	RW6	37	50	3210,5	1294	4504,5	147	147,5	180,5
VS 46/26	RW6	37	50	3324	1294	4618	147	147,5	183

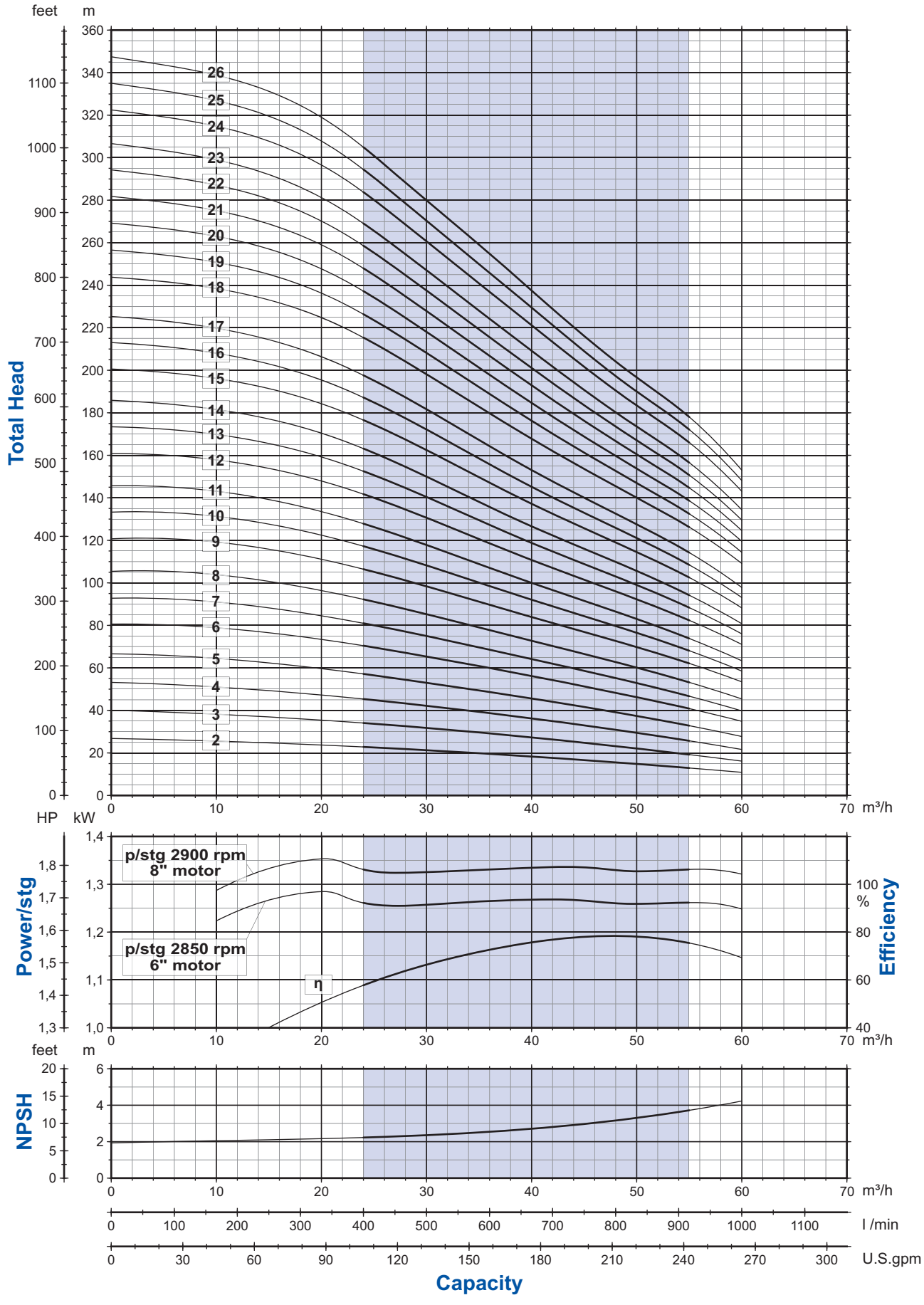
Dimensions



It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

E-Tech by Franklin Electric

Performance curves 50Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

VS 46

Technical data 50Hz

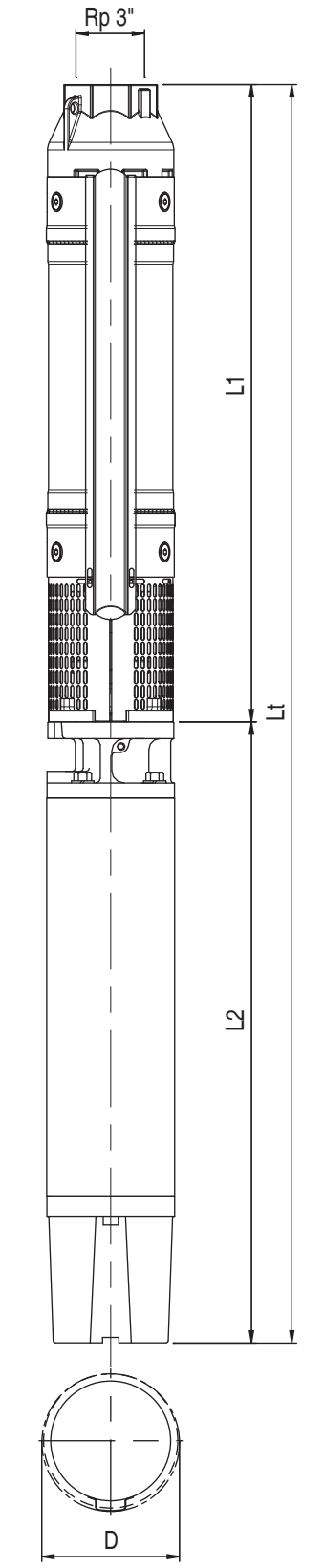
Pumps with Encapsulated Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 46/27	E6	37	50	3438	1421,5	4859,5	145	146,5	217,5
VS 46/28	E6	37	50	3552	1421,5	4973,5	145	146,5	220
VS 46/29	E6	45	60	3665,5	1574	5239,5	145	146,5	236,5
VS 46/30	E6	45	60	3779,5	1574	5353,5	145	146,5	239
VS 46/31	E6	45	60	3893,5	1574	5467,5	145	146,5	242
VS 46/32	E6	45	60	4007	1574	5581	145	146,5	244,5
VS 46/33	E6	45	60	4121	1574	5695	145	146,5	247
VS 46/34	E8	55	75	4335	1204	5539	190,5	190,5	279
VS 46/35	E8	55	75	4449	1204	5653	190,5	190,5	281,5
VS 46/36	E8	55	75	4562,5	1204	5766,5	190,5	190,5	284,5
VS 46/37	E8	55	75	4676,5	1204	5880,5	190,5	190,5	287
VS 46/38	E8	55	75	4790,5	1204	5994,5	190,5	190,5	289,5
VS 46/39	E8	55	75	4904,5	1204	6108,5	190,5	190,5	292
VS 46/40	E8	55	75	5018,5	1204	6222,5	190,5	190,5	295

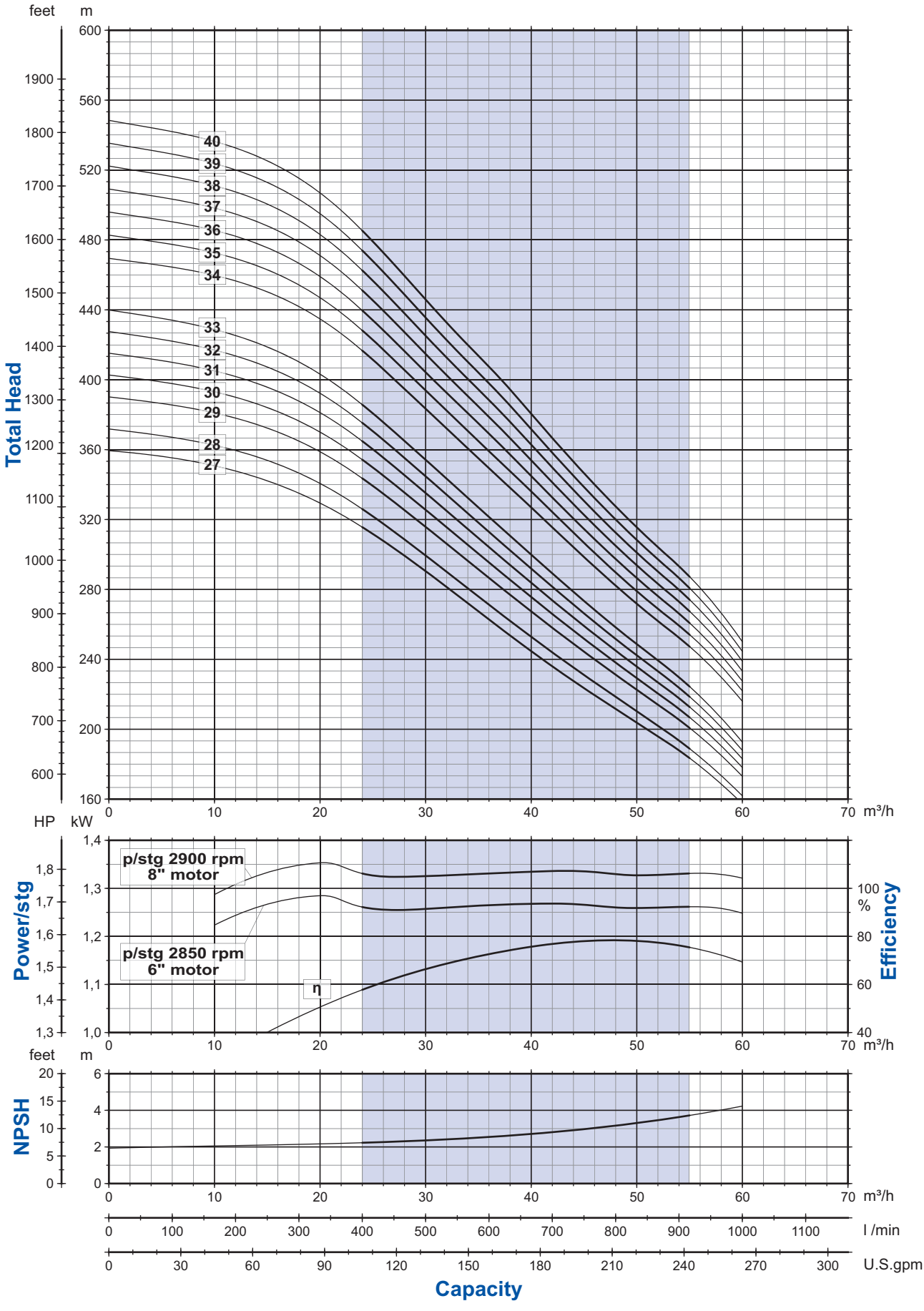
Pumps with Rewindable Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 46/27	RW6	37	50	3438	1294	4732	149	149,5	186,5
VS 46/28	RW6	37	50	3552	1294	4846	149	149,5	189
VS 46/29	RW8	45	60	3765,5	1230	4995,5	189	189	246,5
VS 46/30	RW8	45	60	3879,5	1230	5109,5	189	189	249
VS 46/31	RW8	45	60	3993,5	1230	5223,5	189	189	252
VS 46/32	RW8	45	60	4107	1230	5337	189	189	254,5
VS 46/33	RW8	45	60	4221	1230	5451	189	189	257
VS 46/34	RW8	55	75	4335	1340	5675	189	189	283
VS 46/35	RW8	55	75	4449	1340	5789	189	189	285,5
VS 46/36	RW8	55	75	4562,5	1340	5902,5	189	189	288,5
VS 46/37	RW8	55	75	4676,5	1340	6016,5	189	189	291
VS 46/38	RW8	55	75	4790,5	1340	6130,5	189	189	293,5
VS 46/39	RW8	55	75	4904,5	1340	6244,5	189	189	296
VS 46/40	RW8	55	75	5018,5	1340	6358,5	189	189	299

Dimensions



Performance curves 50Hz



VS 65

Technical data 50Hz

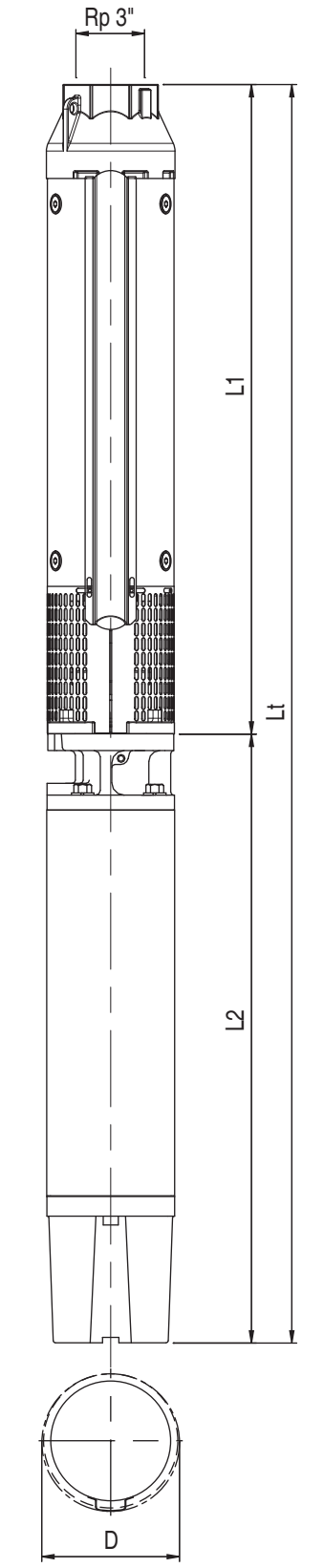
Pumps with Encapsulated Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 65/2	E4	3,7	5	593,5	520	1113,5	142,5	-	33
VS 65/3	E4	5,5	7,5	707,5	652,5	1360	142,5	-	43
VS 65/4	E4	7,5	10	821,5	730,5	1552	142,5	-	49,5
VS 65/2	E6	4	5,5	591,5	581	1172,5	143	144,5	51
VS 65/3	E6	5,5	7,5	705,5	614,5	1320	143	144,5	57
VS 65/4	E6	7,5	10	819,5	646	1465,5	143	144,5	64
VS 65/5	E6	9,3	12,5	933,5	678,5	1612	143	144,5	69
VS 65/6	E6	11	15	1047	711	1758	143	144,5	75
VS 65/7	E6	15	20	1161	776	1937	143	144,5	83
VS 65/8	E6	15	20	1275	776	2051	143	144,5	86
VS 65/9	E6	15	20	1389	776	2165	143	144,5	88,5
VS 65/10	E6	18,5	25	1503	841,5	2344,5	143	144,5	98
VS 65/11	E6	18,5	25	1617	841,5	2458,5	143	144,5	100,5
VS 65/12	E6	22	30	1730,5	906,5	2637	143	144,5	109
VS 65/13	E6	22	30	1844,5	906,5	2751	143	144,5	112
VS 65/14	E6	30	40	1958,5	1036,5	2995	143	144,5	129
VS 65/15	E6	30	40	2072,5	1036,5	3109	143	144,5	131,5
VS 65/16	E6	30	40	2186	1036,5	3222,5	143	144,5	134
VS 65/17	E6	30	40	2300	1036,5	3336,5	143	144,5	137
VS 65/18	E6	37	50	2414	1421,5	3835,5	143	144,5	193,5
VS 65/19	E6	37	50	2527,5	1421,5	3949	143	144,5	196
VS 65/20	E6	37	50	2641,5	1421,5	4063	143	144,5	198,5
VS 65/21	E6	37	50	2755	1421,5	4176,5	143	144,5	201,5
VS 65/22	E6	45	60	2869	1574	4443	143	144,5	218
VS 65/23	E6	45	60	2983	1574	4557	143	144,5	220,5
VS 65/24	E6	45	60	3096,5	1574	4670,5	143	144,5	223
VS 65/25	E6	45	60	3210,5	1574	4784,5	143	144,5	225,5
VS 65/26	E6	45	60	3324	1574	4898	143	144,5	228,5

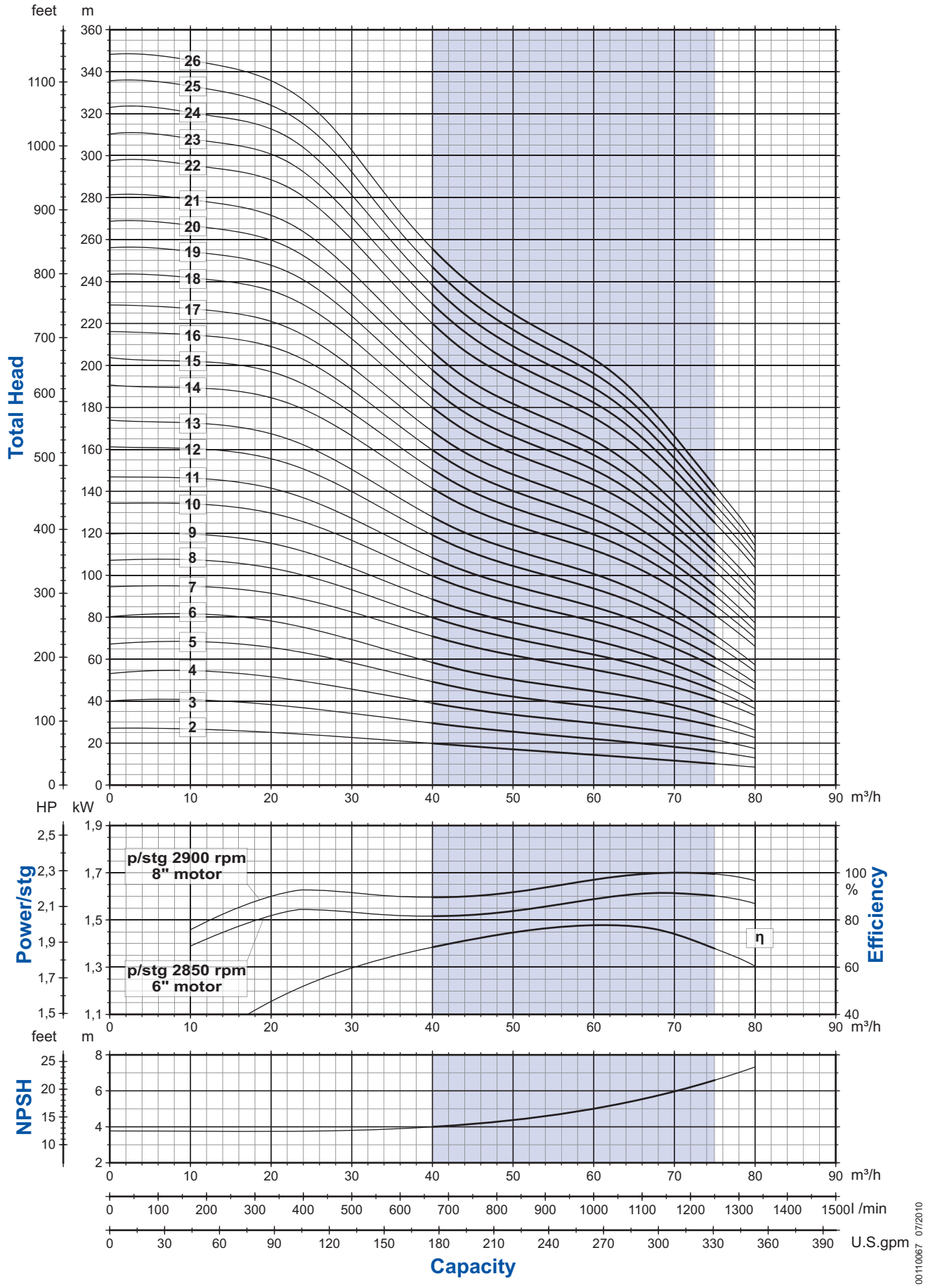
Pumps with Rewindable Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 65/2	RW6	4	5,5	591,5	699	1290,5	147	147,5	61,5
VS 65/3	RW6	5,5	7,5	705,5	699	1404,5	147	147,5	64
VS 65/4	RW6	7,5	10	819,5	719	1538,5	147	147,5	69
VS 65/5	RW6	9,3	12,5	933,5	749	1682,5	147	147,5	74,5
VS 65/6	RW6	11	15	1047	779	1826	147	147,5	80
VS 65/7	RW6	13	17,5	1161	829	1990	147	147,5	87,5
VS 65/8	RW6	15	20	1275	874	2149	147	147,5	95,5
VS 65/9	RW6	15	20	1389	874	2263	147	147,5	98
VS 65/10	RW6	18,5	25	1503	919	2422	147	147,5	104,5
VS 65/11	RW6	18,5	25	1617	919	2536	147	147,5	107
VS 65/12	RW6	22	30	1730,5	1009	2739,5	147	147,5	118,5
VS 65/13	RW6	22	30	1844,5	1009	2853,5	147	147,5	121,5
VS 65/14	RW6	26	35	1958,5	1114	3072,5	147	147,5	135
VS 65/15	RW6	26	35	2072,5	1114	3186,5	147	147,5	137,5
VS 65/16	RW6	30	40	2186	1214	3400	147	147,5	150
VS 65/17	RW6	30	40	2300	1214	3514	147	147,5	153
VS 65/18	RW6	37	50	2414	1294	3708	147	147,5	162,5
VS 65/19	RW6	37	50	2527,5	1294	3821,5	147	147,5	165
VS 65/20	RW6	37	50	2641,5	1294	3935,5	147	147,5	167,5
VS 65/21	RW6	37	50	2755	1294	4049	147	147,5	170,5
VS 65/22	RW8	45	60	2969	1230	4199	189	189	224,5
VS 65/23	RW8	45	60	3083	1230	4313	189	189	227,5
VS 65/24	RW8	45	60	3196,5	1230	4426,5	189	189	230
VS 65/25	RW8	45	60	3310,5	1230	4540,5	189	189	232,5
VS 65/26	RW8	45	60	3424	1230	4654	189	189	235

Dimensions



Performance curves 50Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

VS 65

Technical data 50Hz

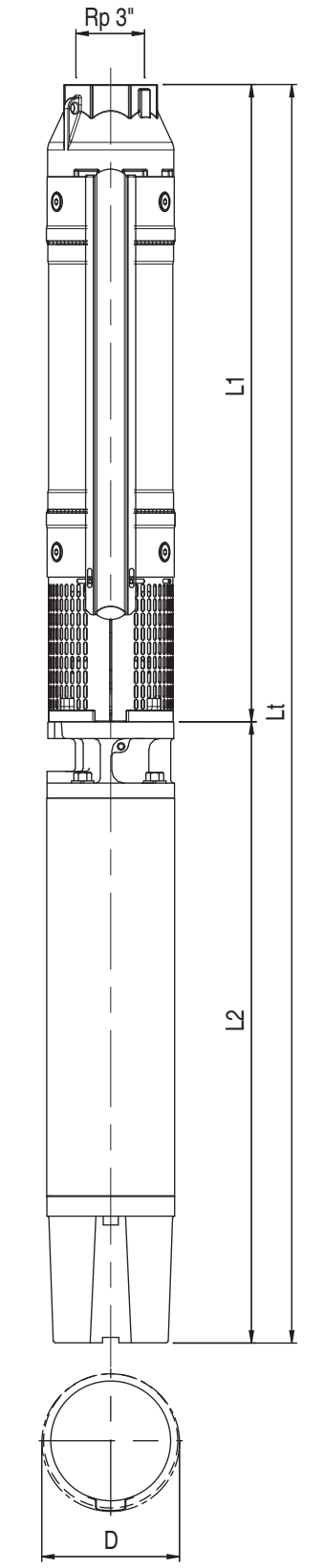
Pumps with Encapsulated Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 65/27	E8	55	75	3538	1204	4742	190,5	190,5	261
VS 65/28	E8	55	75	3652	1204	4856	190,5	190,5	263,5
VS 65/29	E8	55	75	3765,5	1204	4969,5	190,5	190,5	266
VS 65/30	E8	55	75	3879,5	1204	5083,5	190,5	190,5	268,5
VS 65/31	E8	55	75	3993,5	1204	5197,5	190,5	190,5	271,5

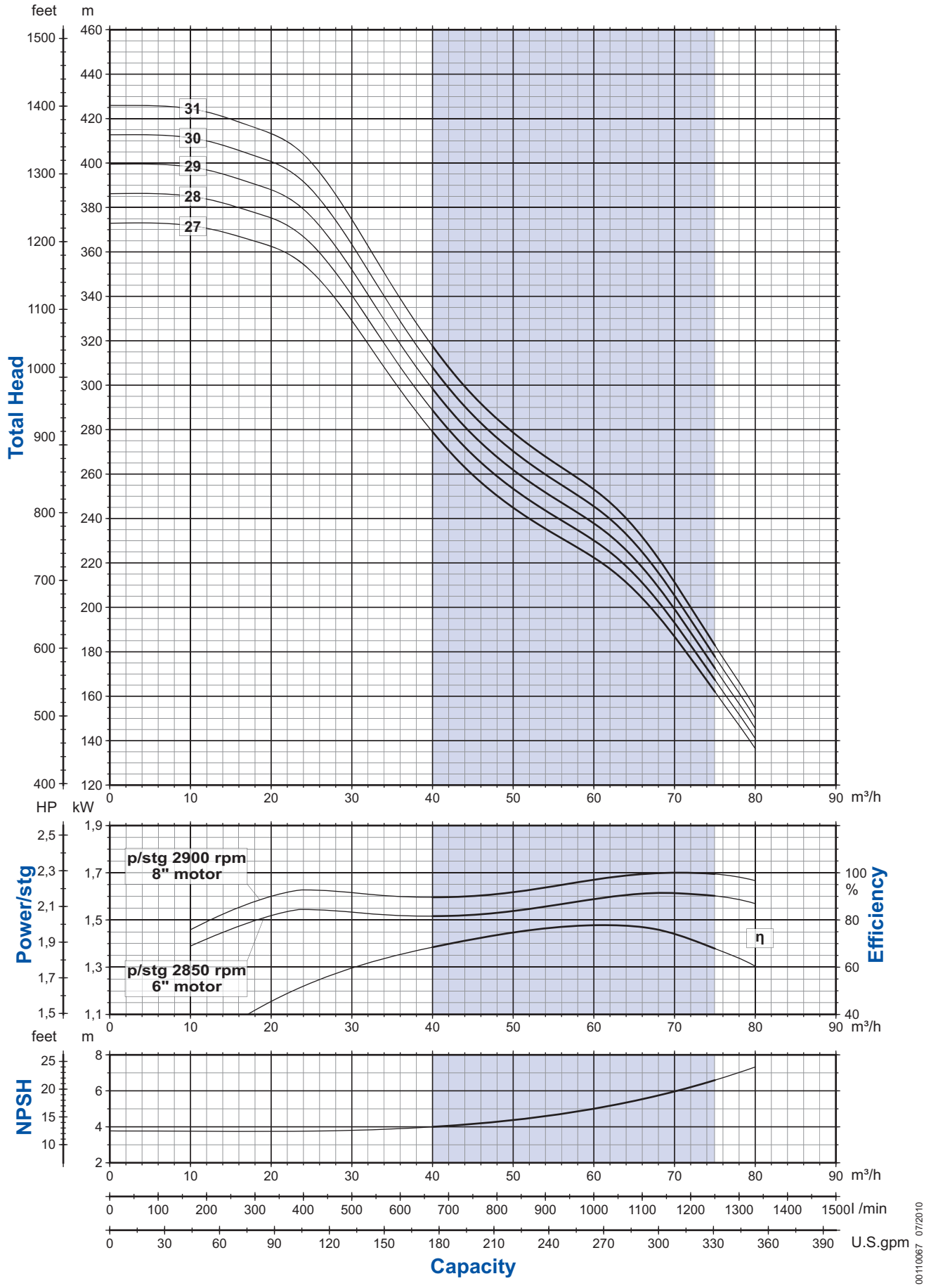
Pumps with Rewindable Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 65/27	RW8	55	75	3538	1340	4878	189	189	265
VS 65/28	RW8	55	75	3652	1340	4992	189	189	267,5
VS 65/29	RW8	55	75	3765,5	1340	5105,5	189	189	270
VS 65/30	RW8	55	75	3879,5	1340	5219,5	189	189	272,5
VS 65/31	RW8	55	75	3993,5	1340	5333,5	189	189	275,5

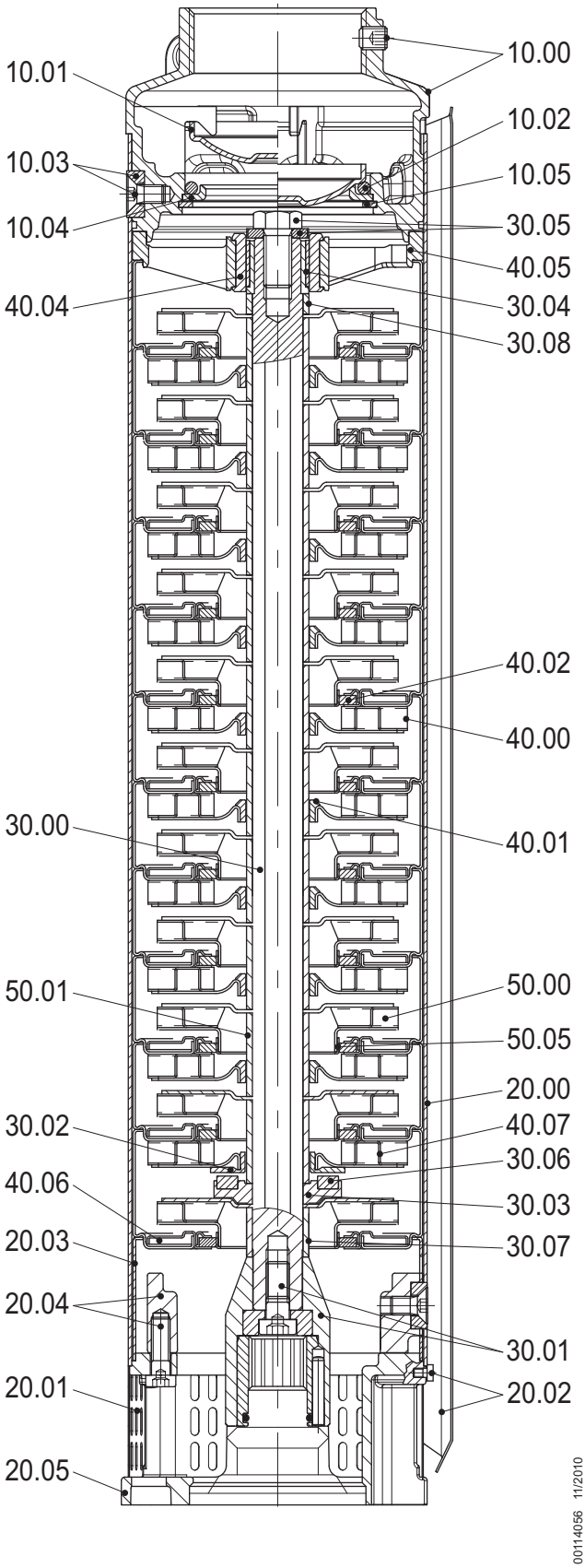
Dimensions



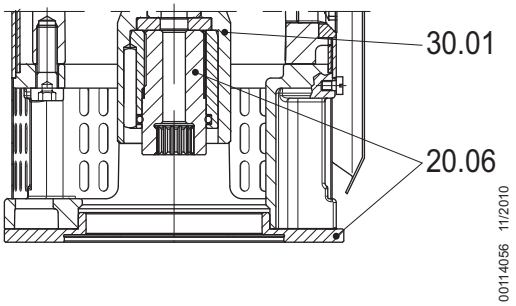
Performance curves 50Hz



Section and List of Main Components
VS 14
VS 19

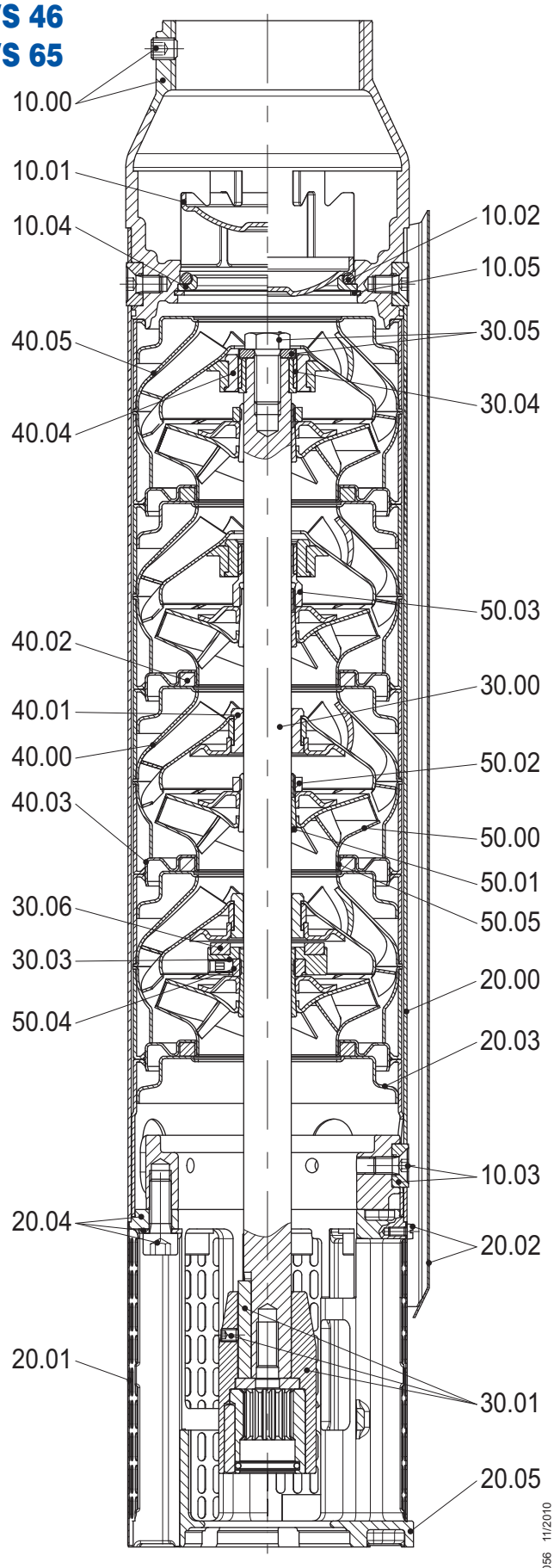


Ref. N.	Description
10 00	Discharge head and screw
10 01	Valve
10 02	O-ring
10 03	Screws and outer case locking nuts
10 04	Valve support
10 05	Seeger ring
20 00	Outer case
20 01	Suction strainer
20 02	Cable guard and screws
20 03	Initial spacer
20 04	Flange and bolts
20 05	Motor adapter
20 06	4" motor flange / coupling adapter
30 00	Pump shaft
30 01	Coupling
30 02	Upper up-thrust washer
30 03	Lower up-thrust washer
30 04	Upper journal sleeve
30 05	Screw and washer
30 06	Up-thrust ring
30 07	Lower spacer
30 08	Upper spacer
40 00	Diffusers
40 01	Secondary bearing bush
40 02	Floating neck ring
40 04	Bearing bush
40 05	Upper bearing guide
40 06	First diffuser
40 07	Diffuser with upper up-thrust washer
50 00	Impeller
50 01	Secondary journal sleeve
50 05	Wear ring



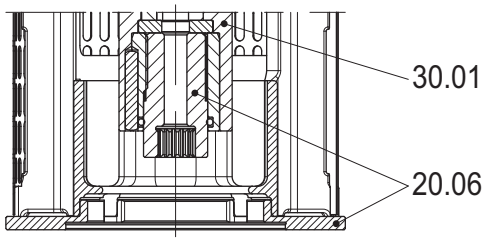
Section and List of Main Components

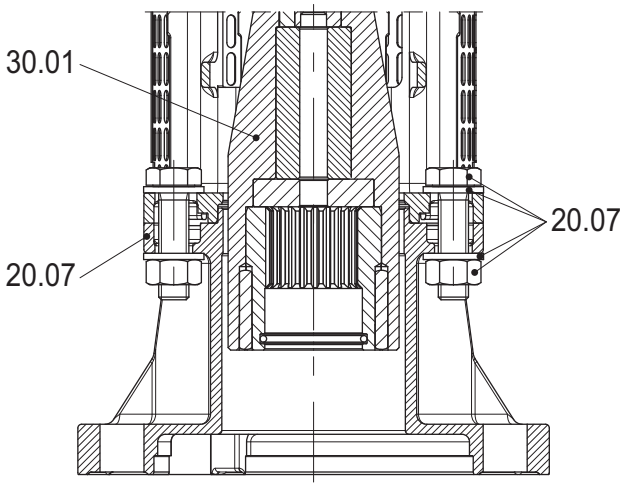
VS 30
VS 46
VS 65



00114056 11/2010

Ref. N.	Description
10 00	Discharge head and screw
10 01	Valve
10 02	O-ring
10 03	Screws and outer case locking nuts
10 04	Valve support
10 05	Seeger ring
20 00	Outer case
20 01	Suction strainer
20 02	Cable guard and screws
20 03	Initial spacer
20 04	Flange and bolts
20 05	Motor adapter
20 06	4" motor flange / coupling adapter
20 07	8" motor adapter
20 08	Bolts and washer
30 00	Pump shaft
30 01	Coupling
30 03	Lower up-thrust washer
30 04	Upper journal sleeve
30 05	Screw and washer
30 06	Up-thrust ring
40 00	Diffusers
40 01	Secondary bearing bush
40 02	Floating neck ring
40 03	Flange clamping neck ring
40 04	Bearing bush
40 05	Last / intermediate diffuser
50 00	Impeller
50 01	Split cone
50 02	Split cone nut
50 03	Intermediate split cone nut
50 04	Up-thrust split cone nut
50 05	Wear ring





00114056 11/2010

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

VS Series Stainless Steel Submersible Pumps for 8" deep wells and larger

Characteristics and Hydraulic Performances

50 Hz

APPLICATIONS

- Municipal water works
- Water distribution and pressure boosting
- Irrigation and sprinkler systems, water treatment plants, filtration and reverse osmosis
- Industrial cooling and processing
- Mining industry, drainage and dewatering
- Fontains
- Fire-fighting equipment

FEATURES

- Stainless steel components for durability and robustness, to increase run-time and trouble-free operation. Many design technical features make this pump range very compact and extremely reliable
- Three-dimensional twisted blades of the impeller and diffuser design to enhance efficiency and to reduce energy consumption
- External stainless steel sleeve to improve stiffness and assure permanent alignment of all the components
- Motor adapter and discharge head may be removed without disturbing the impeller / diffuser stack
- Built-in check valve and over size pump shaft
- Very compact and extremely reliable to resist to the most complex and severe conditions
- Easy service without the need of special tools

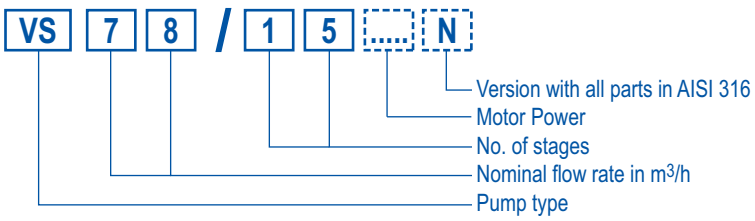
SPECIFICATIONS

- Capacities up to 120 m³/h at 50Hz
- 50 Bar (500 m) at 50Hz
- Maximum allowable amount of sand 100 gr/m³
- Water temperature range: from -5° C to 60°C
- Rotation: counter clockwise when looking into the discharge
- Motor adapter in compliance with NEMA standard
- Pump can work continuously in vertical or horizontal position
- Motors: see section Submersible Motors Product Overview

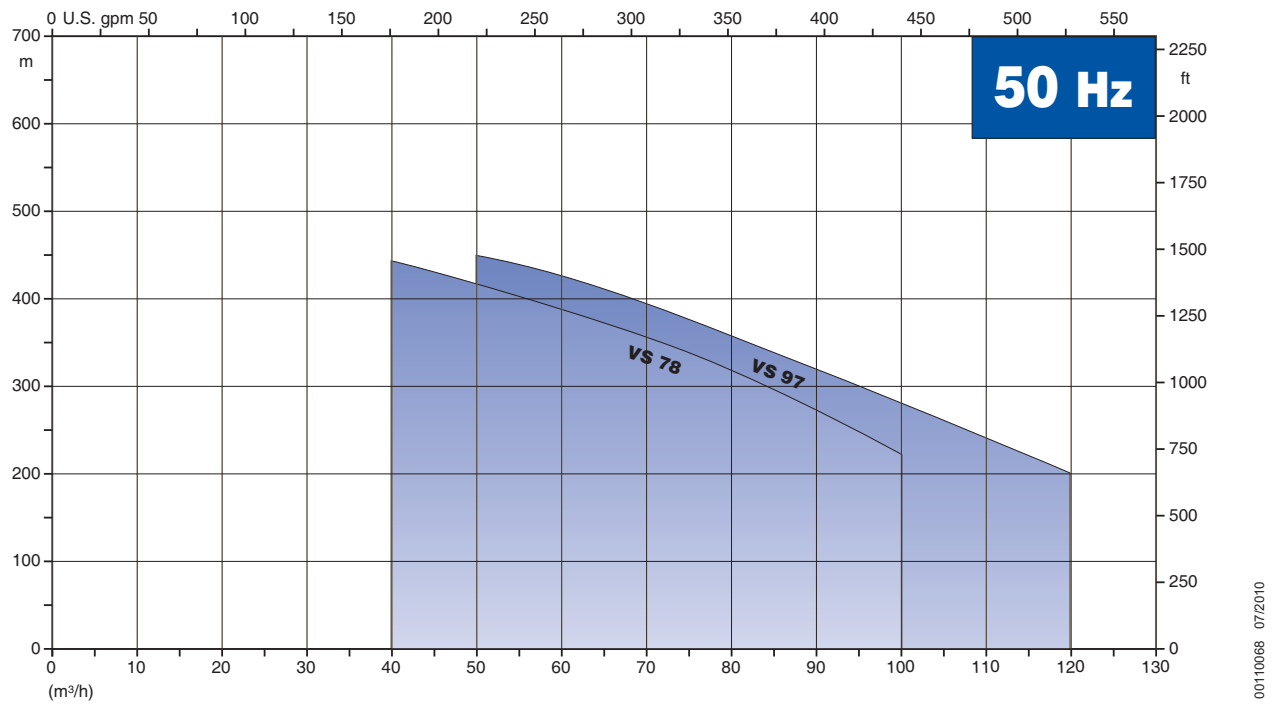
AVAILABLE OPTIONS

- 316 Stainless steel (N) version (DIN/EN 1.4401)
- Double cable guard
- Rp 4" outlet adapter
- Rp 6" outlet adapter

PUMP IDENTIFICATION CODE



00117017 09/2009



MATERIAL IN CONTACT WITH THE LIQUID						
Pos.	**PARTS DESCRIPTIONS**		**MATERIAL**			
			Standard version		**N version**	
		Type	**AISI**	**DIN / EN**	**AISI**	**DIN / EN**
10.00	**Discharge head**	Stainless steel	304	1.4301	316	1.4401
10.01	**Valve**	Stainless steel	316	1.4401	316	1.4401
10.02	**Sealing O-ring**	Nitrile rubber (NBR)	-	-	-	-
10.03	**Outer case locking nuts**	Stainless steel	316	1.4401	316	1.4401
10.04	**Valve support**	Stainless steel and teflon (PTFE)	316	1.4401	316	1.4401
10.05	**Seeger ring**	Stainless steel	316	1.4401	316	1.4401
10.06	**Spring**	Stainless steel	316	1.4401	316	1.4401
20.00	**Outer case**	Stainless steel	304	1.4301	316	1.4401
20.01	**Suction strainer**	Stainless steel	316	1.4401	316	1.4401
20.02	**Cable guard**	Stainless steel	316	1.4401	316	1.4401
20.03	**Initial spacer**	Stainless steel	316	1.4401	316	1.4401
20.04	**Flange and screws**	Stainless steel	304	1.4301	316	1.4401
20.05	**Motor adapter**	Stainless steel	304	1.4301	316	1.4401
30.00	**Pump shaft**	Stainless steel	329	1.4460	329	1.4460
30.01	**Coupling**	Stainless steel	431/329	1.4057/1.4460	316/329	1.4401/1.4460
30.02	**Upper up-thrust washer**	Stainless steel	329	1.4460	329	1.4460
30.03	**Lower up-thrust washer**	Stainless steel	329	1.4460	329	1.4460
30.04	**Upper journal sleeve** (1)	Stainless steel with ceramic casting	-	-	-	-
30.05	**Screw and washer**	Stainless steel	316	1.4401	316	1.4401
30.06	**Up-thrust ring**	Teflon (PTFE)	-	-	-	-
40.00	**Diffuser**	Stainless steel	304	1.4301	316	1.4401
40.01	**Secondary bearing bush**	Nitrile rubber (NBR)	-	-	-	-
40.02	**Floating neck ring**	Teflon (PTFE)	-	-	-	-
40.03	**Flange clamping neck ring**	Stainless steel	316	1.4401	316	1.4401
50.00	**Impeller**	Stainless steel	316	1.4401	316	1.4401
50.01	**Split cone**	Stainless steel	316	1.4401	316	1.4401
50.02	**Split cone nut**	Stainless steel	316	1.4401	316	1.4401

1) only for types with more than 8 stages

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

VS78
TABLE OF HYDRAULIC PERFORMANCES AT 50Hz

PUMP TYPE	RATED POWER		Q = DELIVERY									
			m³/h	0	30	40	50	60	70	80	90	100	120
			l/min	0	500	666	833	1000	1166	1333	1500	1666	2000
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER [m]										
VS 78/2	7,5	10		39,9	37,1	34,9	32,6	29,7	27,1	24,3	20,4	16,3	
VS 78/3	11	15		59,8	55,7	52,3	48,9	44,6	40,7	36,4	30,6	24,4	
VS 78/4	15	20		79,7	74,3	69,7	65,1	59,4	54,3	48,6	40,9	32,6	
VS 78/5	18,5	25		99,6	92,9	87,1	81,4	74,3	67,9	60,7	51,1	40,7	
VS 78/6	22	30		120	111	105	97,7	89,1	81,4	72,9	61,3	48,9	
VS 78/7	30	40		140	130	122	114	104	95	85	71,5	57	
VS 78/8	30	40		156	146	138	128	117	107	94,5	80	63,3	
VS 78/9	30	40		176	164	155	144	132	120	106	90	71,2	
VS 78/10	37	50		195	183	173	160	147	134	118	100	79,1	
VS 78/11	37	50		215	201	190	176	162	147	130	110	87	
VS 78/12	45	60		248	232	218	203	187	171	154	130	105	
VS 78/13	55	75		268	251	237	220	203	185	166	141	114	
VS 78/14	55	75		289	271	255	237	218	200	179	152	122	
VS 78/15	55	75		310	290	273	254	234	214	192	163	131	
VS 78/16	75	100		332	312	293	274	252	232	206	176	143	
VS 78/17	75	100		353	332	311	292	268	247	219	187	152	
VS 78/18	75	100		374	351	329	309	284	261	232	198	161	
VS 78/19	75	100		394	371	348	326	299	276	245	209	170	
VS 78/20	75	100		415	390	366	343	315	290	258	220	179	
VS 78/21	75	100		436	409	385	361	331	304	271	231	187	
VS 78/22	93	125		457	428	403	378	347	318	284	242	196	
VS 78/23	93	125		478	448	422	395	363	333	297	253	205	
VS 78/24	93	125		499	467	440	412	379	347	310	264	214	

VS97
TABLE OF HYDRAULIC PERFORMANCES AT 50Hz

PUMP TYPE	RATED POWER		Q = DELIVERY									
			m³/h	0	30	40	50	60	70	80	90	100	120
			l/min	0	500	666	833	1000	1166	1333	1500	1666	2000
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER [m]										
VS 97/2	9,3	12,5		41,2		38,6	35,2	32,2	29,8	27,8	24,8	18,6	14,8
VS 97/3	15	20		61,8		57,9	52,8	48,3	44,7	41,7	32,7	27,9	22,2
VS 97/4	18,5	25		82,4		77,2	70,4	64,4	59,6	55,6	43,6	37,2	29,6
VS 97/5	22	30		103		96,5	88	80,5	74,5	69,5	54,5	46,5	37
VS 97/6	30	40		125		113	105	96,7	89	82,7	66,3	55	44
VS 97/7	30	40		146		132	123	113	104	96,4	77,4	64,2	51,3
VS 97/8	37	50		167		151	140	129	119	110	88,4	73,3	58,7
VS 97/9	37	50		188		170	158	145	134	124	99,5	82,5	66
VS 97/10	45	60		219		200	185	172	158	147	119	102	83,1
VS 97/11	55	75		241		220	204	189	174	162	131	112	91,4
VS 97/12	55	75		263		240	222	206	190	176	143	122	99,7
VS 97/13	55	75		285		260	241	223	206	191	155	132	108
VS 97/14	75	100		309		281	262	242	224	208	169	144	120
VS 97/15	75	100		331		302	279	261	240	222	182	156	129
VS 97/16	75	100		353		322	298	278	256	237	194	166	138
VS 97/17	75	100		375		342	317	295	272	251	206	176	147
VS 97/18	93	125		397		362	335	313	288	266	218	187	155
VS 97/19	93	125		419		382	354	330	304	281	230	197	164
VS 97/20	93	125		440		403	374	348	322	298	244	209	173
VS 97/21	93	125		462		424	393	365	338	313	257	219	182
VS 97/22	110	150		484		444	411	383	354	328	269	230	190
VS 97/23	110	150		507		464	430	400	370	343	281	240	199

VS Series Stainless Steel Submersible Pumps for 8" deep wells and larger

Technical Data and Performance Curves

50 Hz

VS 78

Technical data 50Hz

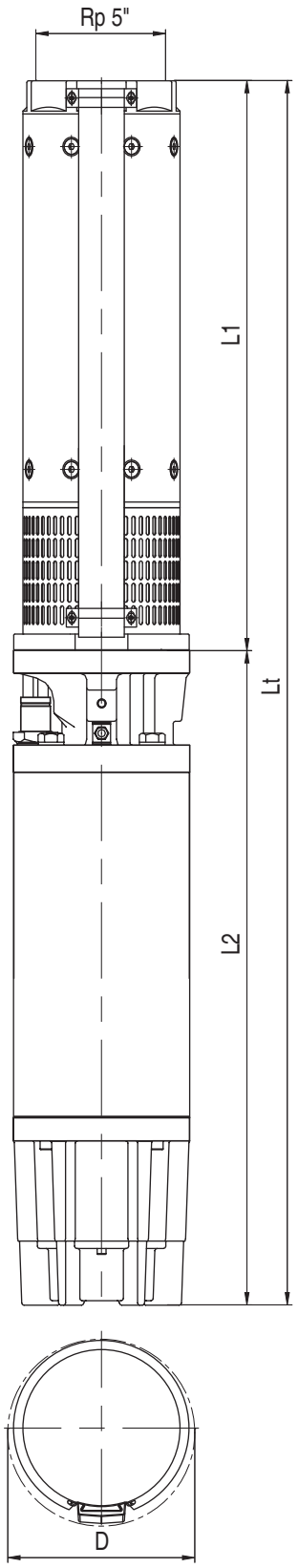
Pumps with Encapsulated Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 78/2	E6	7,5	10	644	646	1290	188	194	77
VS 78/3	E6	11	15	770	711	1481	188	194	87
VS 78/4	E6	15	20	896	776	1672	188	194	57
VS 78/5	E6	18,5	25	1022	841,5	1863,5	188	194	109
VS 78/6	E6	22	30	1148	906,5	2054,5	188	194	120
VS 78/7	E6	30	40	1274	1036,5	2310,5	188	194	140
VS 78/8	E6	30	40	1400	1036,5	2436,5	188	194	145
VS 78/9	E6	30	40	1526	1036,5	2562,5	188	194	150
VS 78/10	E6	37	50	1652	1405	3057	188	194	206
VS 78/11	E6	37	50	1778	1405	3183	188	194	211
VS 78/12	E8	45	60	1909	1077	2986	200	202	254
VS 78/13	E8	55	75	2035	1394	3429	200	202	259
VS 78/14	E8	55	75	2161	1394	3555	200	202	294
VS 78/15	E8	55	75	2287	1394	3681	200	202	299
VS 78/16	E8	75	100	2413	1496	3909	200	202	342
VS 78/17	E8	75	100	2539	1496	4035	200	202	347
VS 78/18	E8	75	100	2665	1496	4161	200	202	352
VS 78/19	E8	75	100	2791	1496	4287	200	202	357
VS 78/20	E8	75	100	2917	1496	4413	200	202	361
VS 78/21	E8	75	100	3043	1496	4539	200	202	366
VS 78/22	E8	93	125	3169	1748	4917	200	202	449
VS 78/23	E8	93	125	3295	1748	5043	200	202	454
VS 78/24	E8	93	125	3421	1748	5169	200	202	459

Pumps with Rewindable Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 78/2	6RW	7,5	10	644	719	1363	188	194	82
VS 78/3	6RW	11	15	770	779	1549	188	194	92
VS 78/4	6RW	15	20	896	874	1770	188	194	66
VS 78/5	6RW	18,5	25	1022	919	1941	188	194	116
VS 78/6	6RW	22	30	1148	1009	2157	188	194	130
VS 78/7	6RW	26	35	1274	1114	2388	188	194	146
VS 78/8	6RW	30	40	1400	1214	2614	188	194	161
VS 78/9	6RW	30	40	1526	1214	2740	188	194	166
VS 78/10	6RW	37	50	1652	1294	2946	188	194	178
VS 78/11	6RW	37	50	1778	1294	3072	188	194	183
VS 78/12	8RW	45	60	1909	1230	3139	197	199.5	238
VS 78/13	8RW	52	70	2035	1340	3375	197	199.5	266
VS 78/14	8RW	52	70	2161	1340	3501	197	199.5	271
VS 78/15	8RW	55	75	2287	1340	3627	197	199.5	276
VS 78/16	8RW	60	80	2413	1470	3883	197	199.5	300
VS 78/17	8RW	67	90	2539	1470	4009	197	199.5	305
VS 78/18	8RW	67	90	2665	1470	4135	197	199.5	310
VS 78/19	8RW	75	100	2791	1560	4351	197	199.5	332
VS 78/20	8RW	75	100	2917	1560	4477	197	199.5	336
VS 78/21	8RW	75	100	3043	1560	4603	197	199.5	341
VS 78/22	8RW	83	110	3169	1560	4729	197	199.5	378
VS 78/23	8RW	83	110	3295	1560	4855	197	199.5	383
VS 78/24	8RW	93	125	3421	1740	5161	197	199.5	388

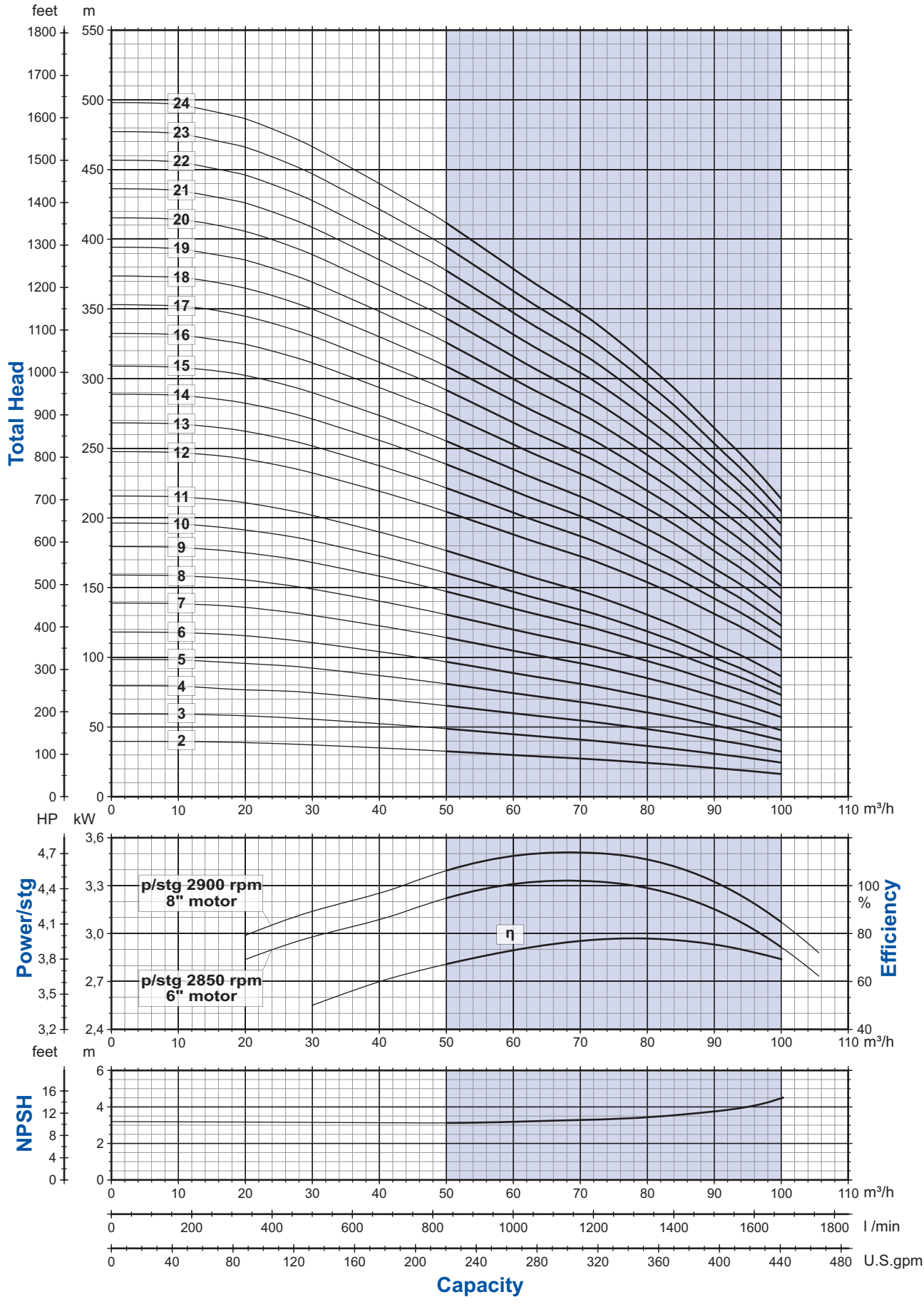
Dimensions



It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

E-Tech by Franklin Electric

Performance curves 50Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

VS 97

Technical data 50Hz

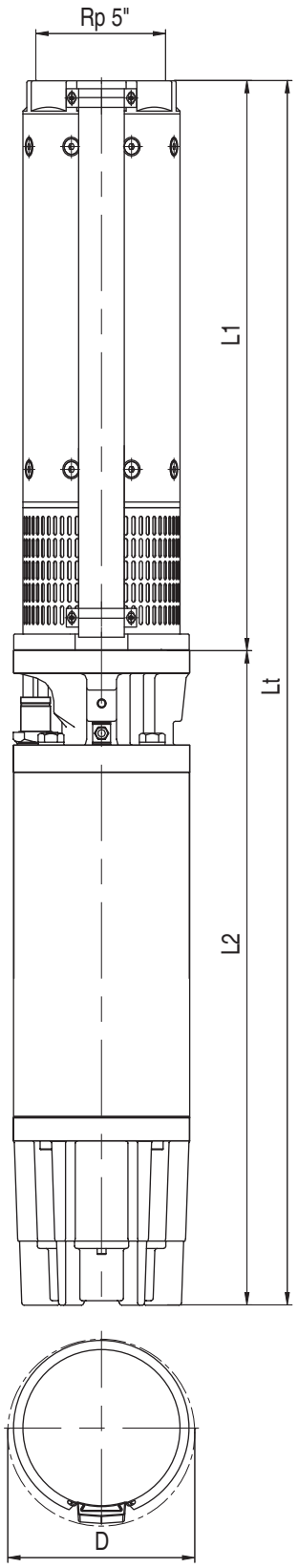
Pumps with Encapsulated Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 97/2	E6	9,3	12,5	644	678,5	1322,5	188	194	79
VS 97/3	E6	15	20	770	776	1546	188	194	93
VS 97/4	E6	18,5	25	896	841,5	1737,5	188	194	105
VS 97/5	E6	22	30	1022	906,5	1928,5	188	194	115,5
VS 97/6	E6	30	40	1148	1036,5	2184,5	188	194	135
VS 97/7	E6	30	40	1274	1036,5	2310,5	188	194	140
VS 97/8	E6	37	50	1400	1405	2805	188	194	196
VS 97/9	E6	37	50	1526	1405	2931	188	194	201
VS 97/10	E8	45	60	1657	1077	2734	200	202	244
VS 97/11	E8	55	75	1783	1394	3177	200	202	279
VS 97/12	E8	55	75	1909	1394	3303	200	202	284
VS 97/13	E8	55	75	2035	1394	3429	200	202	289
VS 97/14	E8	75	100	2161	1496	3657	200	202	332
VS 97/15	E8	75	100	2287	1496	3783	200	202	337
VS 97/16	E8	75	100	2413	1496	3909	200	202	342
VS 97/17	E8	75	100	2539	1496	4035	200	202	346,5
VS 97/18	E8	93	125	2665	1748	4413	200	202	429,5
VS 97/19	E8	93	125	2791	1748	4539	200	202	434,5
VS 97/20	E8	93	125	2917	1748	4665	200	202	439
VS 97/21	E8	93	125	3043	1748	4791	200	202	444
VS 97/22	E8	110	150	3169	1976	5145	200	202	512
VS 97/23	E8	110	150	3295	1976	5271	200	202	517

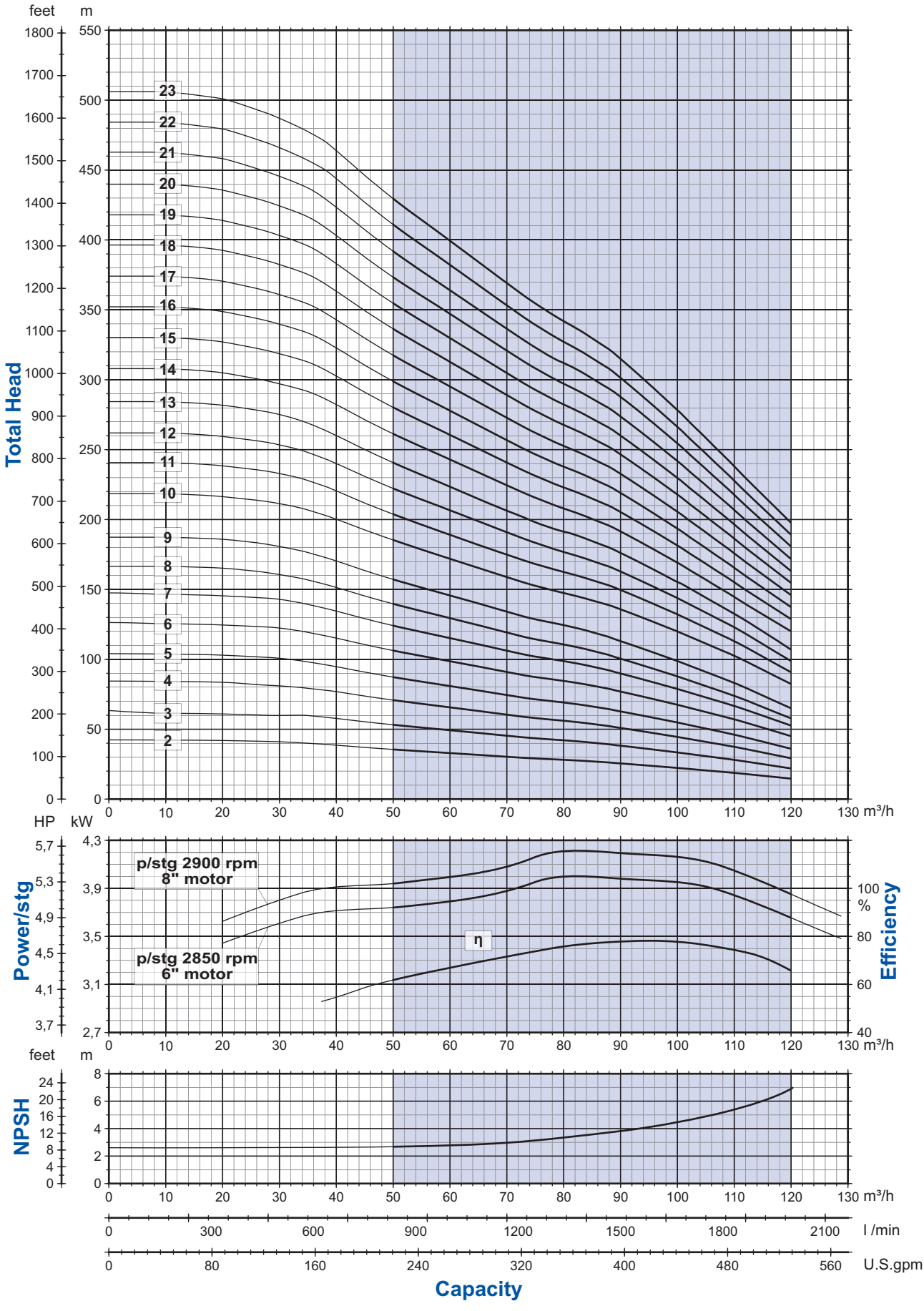
Pumps with Rewindable Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 97/2	6RW	9,3	12,5	644	749	1393	188	194	84,5
VS 97/3	6RW	13	17,5	770	829	1599	188	194	97,5
VS 97/4	6RW	18,5	25	896	919	1815	188	194	111,5
VS 97/5	6RW	22	30	1022	1009	2031	188	194	125
VS 97/6	6RW	26	35	1148	1114	2262	188	194	141
VS 97/7	6RW	30	40	1274	1214	2488	188	194	156
VS 97/8	6RW	37	50	1400	1294	2694	188	194	168
VS 97/9	6RW	37	50	1526	1294	2820	188	194	173
VS 97/10	8RW	45	60	1657	1230	2887	197	199.5	228
VS 97/11	8RW	52	70	1783	1340	3123	197	199.5	256
VS 97/12	8RW	52	70	1909	1340	3249	197	199.5	261
VS 97/13	8RW	55	75	2035	1340	3375	197	199.5	266
VS 97/14	8RW	67	90	2161	1470	3631	197	199.5	290
VS 97/15	8RW	67	90	2287	1470	3757	197	199.5	295
VS 97/16	8RW	75	100	2413	1560	3973	197	199.5	317
VS 97/17	8RW	75	100	2539	1560	4099	197	199.5	321,5
VS 97/18	8RW	83	110	2665	1560	4225	197	199.5	358,5
VS 97/19	8RW	83	110	2791	1560	4351	197	199.5	363,5
VS 97/20	8RW	93	125	2917	1740	4657	197	199.5	368
VS 97/21	8RW	93	125	3043	1740	4783	197	199.5	373

Dimensions

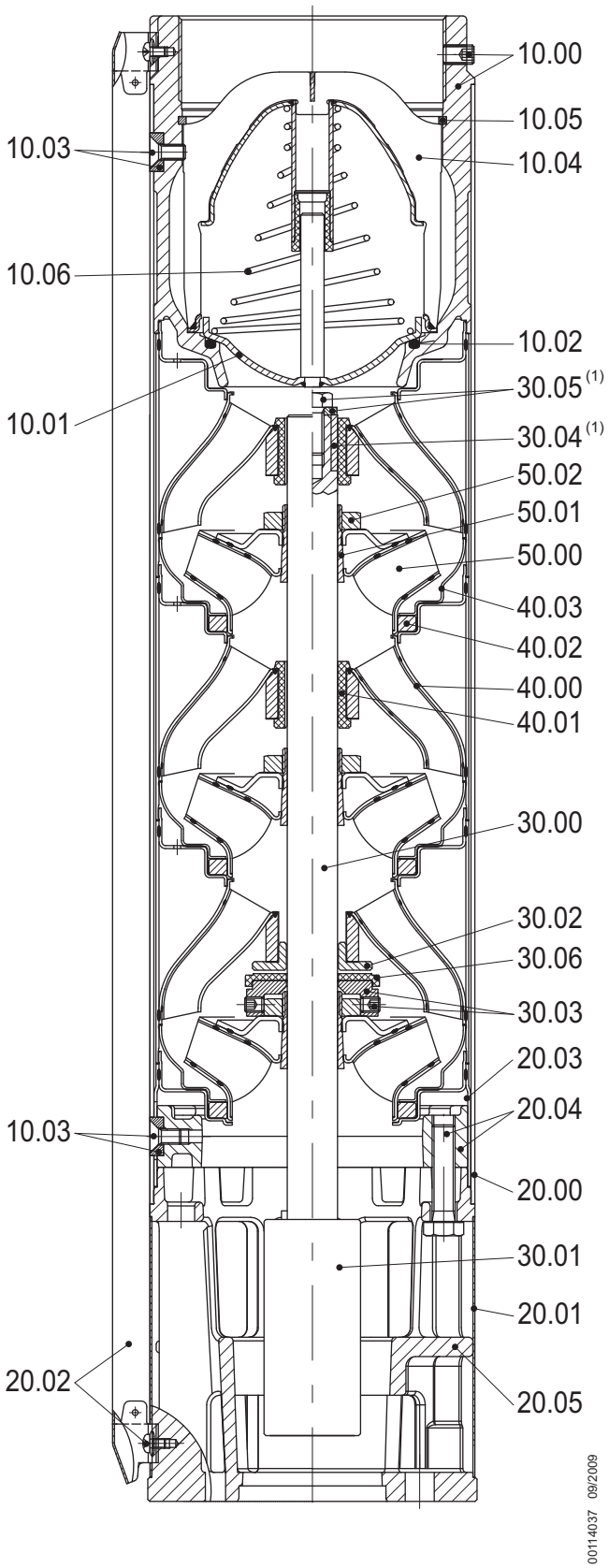


Performance curves 50Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

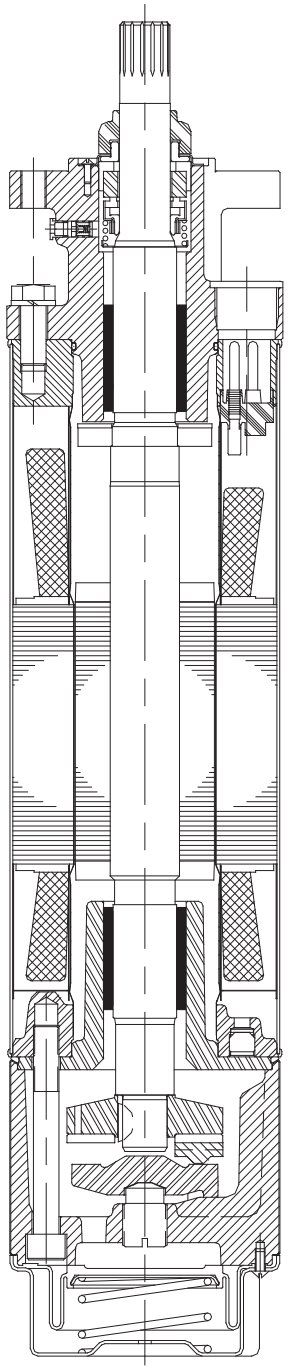
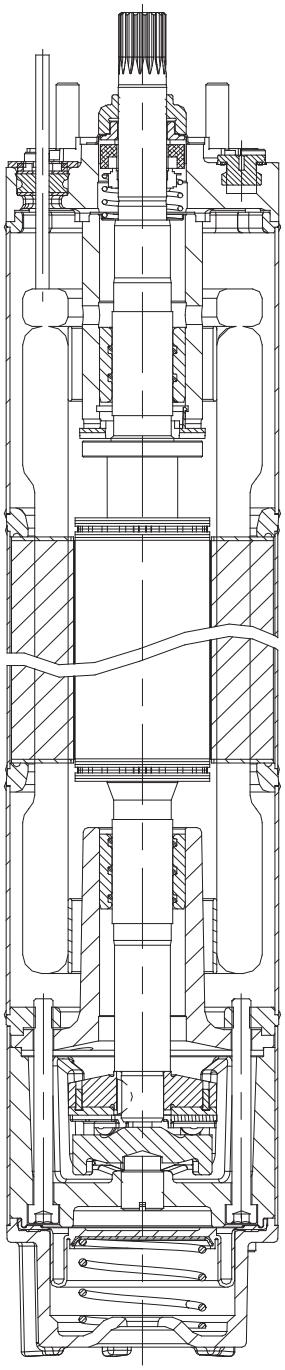
Section and List of Main Components
VS 78
VS 97



Ref. N.	Description
10 00	Discharge head
10 01	Valve
10 02	Sealing O-ring
10 03	Outer case locking nuts
10 04	Valve support
10 05	Seeger ring
10 06	Spring
20 00	Outer case
20 01	Suction strainer
20 02	Cable guard
20 03	Initial spacer
20 04	Flange
20 05	Motor adapter
30 00	Pump shaft
30 01	Coupling
30 02	Upper up-thrust washer
30 03	Lower up-thrust washer
30 04	Upper journal sleeve
30 05	Screw and washer
30 06	Up-thrust ring
40 00	Diffuser
40 01	Secondary bearing bush
40 02	Floating neck ring
40 03	Flange clamping neck ring
50 00	Impeller
50 01	Split cone
50 02	Split cone nut

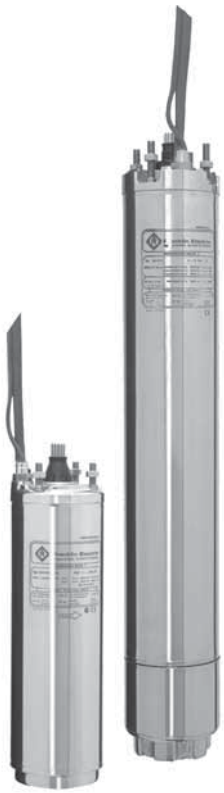
1) only for types with more than 8 stages

Submersible Motors
Product Overview

Encapsulated Motor	Rewindable Motor
	

E4

4" Encapsulated Motors
4" Super Stainless 3 Phase



SUBMERSIBLE MOTORS

These 4" encapsulated three phase motors, manufactured in ISO 9001 certified facilities, are built for dependable operation in 4" diameter or larger water wells. The motor offer you a maintenance free long life submersible pump application.
The motor is filled with a special FES93 fluid, providing frost protection down to -40°C storage temperature. A special diaphragm ensures pressure compensation inside the motor.

FEATURES

- Hermetically sealed stator. Anti track, self healing stator resin prevents motor burn out
- High efficiency electrical design (low operation cost, cooler winding temperature)
- Removable “Water Bloc™” lead connector
- Cable material according to drinking water regulations (KTW approved)
- Water lubricated radial and thrust bearings
- All motors prefilled and 100% tested.
  Non contaminating, FES93- filled design

SPECIFICATIONS

- 0,37 - 7,5kW
- 4" NEMA flange
- Degree of protection: IP68
- Insulation: Cl. B
- Rated ambient temp.: 30°C
- Cooling flow: Motors 2,2 kW and larger: min. 8 cm/s
- Starts/h: 20
- Mounting: vertical/horizontal
- Voltage tolerance: 380-415V/50Hz, 460V/60Hz; -10% / +6% U_N [380-415V = (380-10%) – (415+6%)]
- Motor protection: Select thermal overloads according to EN 60947-4-1,Trip time <10 s at 5 x I_N

AVAILABLE OPTIONS

- Motor cable VDE / KTW approved (1,5m; 2,5m; special lengths available)
- Motors with factory- installed lead in Single Packing
- Special voltages on request
- YΔ - start (pos. of cables 90°) in motors 316SS on request
- Motor complete in AISI 316SS with SiC seal

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

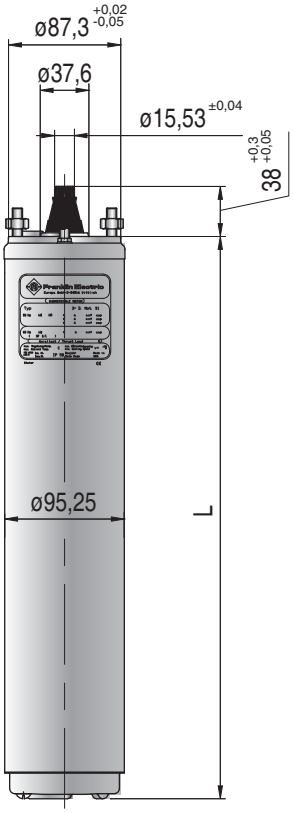
Performance table at ~2850 rpm

Three-Phase 4" Encapsulated Motors 400V

P_N		Thrust	n_N	I_N	I_A	η	cos φ	T_N	T_A	L	Weight
[kW]	[HP]	F [N]	[min^{-1}]	[A]	[A]	[%]	[%]	[Nm]	[Nm]	[mm]	[kg]
0,37	0,5	3000	2870	1,1	5,41	66	0,74	1,22	3,00	214,2	7,2
0,55	0,75	3000	2870	1,6	7,4	68	0,74	1,82	4,20	228,2	7,7
0,75	1	3000	2865	2,0	7,0	70	0,77	2,49	6,70	248,2	8,7
1,1	1,5	3000	2850	2,8	16,0	74	0,78	3,67	11,33	282,6	10,2
1,5	2	3000	2855	3,9	20,7	73	0,78	5,00	14,10	306,6	11,2
2,2	3	3000	2845	5,5	29,8	75	0,77	7,37	22,0	338,6	12,6
		6500*	2845	5,5	29,8	75	0,77	7,37	22,0	422,2	15,0
3,0	4	3000	2845	7,5	42,0	76	0,77	10,06	31,93	393,6	15,0
		6500*	2845	7,5	42,0	76	0,77	10,06	31,93	477,2	17,0
3,7	5	6500*	2840	9,0	52,3	78	0,78	12,5	41,5	520,2	19,1
4,0	5,5	6500*	2840	9,9	57,0	78	0,77	13,4	44,0	543,2	20,0
5,5	7,5	6500*	2865	12,6	77,2	79	0,81	18,3	56,5	652,5	26,6
7,5	10	6500*	2855	17,1	99,3	79	0,81	25,1	73,1	730,5	30,6

* High Thrust Version

Dimensions



It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

E6

6" Encapsulated Motors



SUBMERSIBLE MOTORS

These 6" encapsulated motors, manufactured in ISO 9001 certified facilities, are built for dependable operation in 6" diameter or larger water wells.
Water lubricated thrust and radial bearings enable a maintenance free operation. A special diaphragm ensures pressure compensation inside the motor. The motor is filled with a special FES91 fluid, providing frost protection down to -15°C storage temperature.
The Sand fighter® SiC seal system is standard.

FEATURES

- Hermetically sealed stator, Anti track, self healing stator resin prevents motor burn out
- 37 and 45kW up to 50°C ambient temperature
- Removable "Water Bloc" lead connector
- Cable material according to drinking water regulations (KTW approved)
- „Sand fighter®" Motor with SiC-Mechanical Seal
- High efficiency electrical design for low operation cost
- All motors prefilled and 100% tested
  Max. storage temperature -15°C – + 60°C
- Non contaminating FES91- filled design

SPECIFICATIONS

- 4 - 45 kW
- 6" NEMA flange
- Protection: IP 68
- Starts per hour: 20
- Installation: vertical/horizontal
- Standard voltage: 380-415V/50Hz, 460V/60Hz;
  Voltage tolerance: +6% / -10% (Standard: 415 + 6% = 440V,380 – 10% = 342V)
- Motor protection: Select thermal overloads according to DIN 60947-4-1, trip class 10 or 10A, trip time < 10 s at 5 x I_N
- Insulation: Class F
- YΔ - start (pos. of cables 90°)
- „Sand fighter®" Motor with SiC-Mechanical Seal
- Rated ambient temperature: 4 - 30 kW up to 30°C, 37 & 45 kW up to 50°C
- Cooling flow: min. 0,16 m/s
- Motor lead in 4m length (KTW approved)

AVAILABLE OPTIONS

- Other voltages
- Motors complete in 316 SS
- PT 100 temperature sensor (sold separately)
- Special Lead lengths up to 50m
- Built-in PTC temperature sensor
- Built-in SubMonitor Transmitter (standard for 37 & 45 kW)

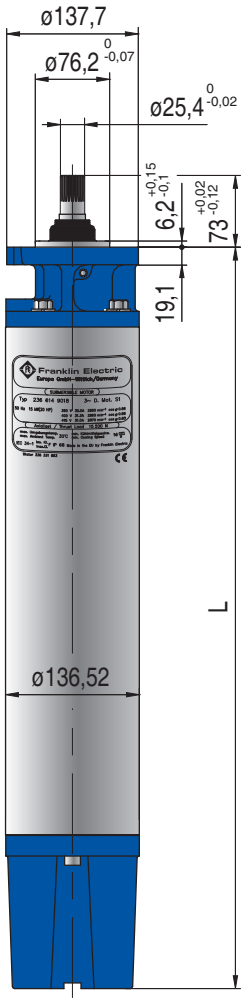
It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

Performance table at ~2850 rpm

Three-Phase 6" Encapsulated Motors 400V

P_N		Thrust	n_N	I_N	I_A	η	cos φ	T_N	T_A	L	Weight
[kW]	[HP]	F [N]	[min^{-1}]	[A]	[A]	[%]	[%]	[Nm]	[Nm]	[mm]	[kg]
4	5,5	15500	2860	9,3	43	78,0	0,82	12,3	20,2	581,2	37,5
5,5	7,5	15500	2870	12,5	64	79,0	0,82	18,6	35,0	614,4	41,1
7,5	10	15500	2860	16,0	83	79,0	0,86	25,0	47,7	646,2	45,2
9,3	12,5	15500	2870	20,7	112	81,0	0,80	31,1	68,2	678,7	47,5
11	15	15500	2860	23,3	129	81,0	0,85	37,3	78,3	711,2	50,9
15	20	15500	2860	31,3	169	81,0	0,85	49,9	107,3	776,2	56,7
18,5	25	15500	2860	38,5	231	82,0	0,85	62,4	154,6	841,5	63,3
22	30	15500	2860	45,3	268	83,0	0,86	74,7	177,6	906,5	69,3
30	40	27500	2860	63,5	393	83,0	0,84	99,4	263,1	1036,6	83,9
37	50	27500	2875	79,0	411	81,0	0,85	123,6	280,8	1421,4	138
45	60	27500	2875	95,2	509	82,0	0,84	148,4	332,3	1573,8	152

Dimensions



It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

RW6

6" Rewindable Motors



SUBMERSIBLE MOTORS

These 6" rewindable motors, manufactured in ISO 9001 certified facilities, are built for dependable operation in 6" diameter or larger water wells. Water lubricated thrust and radial bearings enable a maintenance free operation. A special diaphragm ensures pressure compensation inside the motor. The motor is filled with a special FES93 fluid, providing frost protection down to -15°C storage temperature.
The Sand fighter® SiC seal system is the option for sandy applications. For applications in aggressive media, motors made of 316SS and 904L are available.

FEATURES

- Cable material according to drinking water regulations (KTW approved)
- Sand slinger and mechanical seal for high performance in sand
- High efficiency electrical design for low operation cost
- All motors prefilled and 100% tested
- Max. storage temperature -15°C – + 60°C
- Design for retrofittable PT100 sensor
- Approved Franklin Electric „Kingsbury Type“ thrust bearing
- Non contaminating FES93- filled design

SPECIFICATIONS

- 4 - 37 kW
- NEMA flange with Studs (M12)
- Protection: IP 68
- Starts per hour: max. 20
- Installation position: vertical / horizontal
- Motor Lead in 4m length (KTW approved)
- Standard voltage: 380-415V/50Hz, 460V/60Hz;
  Voltage tolerance: +6% / -10% (Standard: 415 + 6% = 440V, 380 – 10% = 342V)
- Motor protection: Select thermal overloads according to EN 60947-4-1, trip class 10 or 10A, trip time < 10 s at 5 x I_N
- YΔ - start (pos. of cables 90°)
- Standard motor with PVC winding insulation(37kW in standard with PE2/PA insulation) for max. ambient temp. of 30°C with a min.cooling flow:
  4 kW - 15 kW v = 0,2 m/s
  18,5 kW - 37 kW v = 0,5 m/s

AVAILABLE OPTIONS

- Other voltages
- Motors in complete 316 SS and 904 L
- Motors up to 30 kW with PE2/PA winding insulation for max. ambient temp. of 50°C at the same cooling conditions as standard (37 kW max. 45°C)
- PT 100 temperature sensor (sold separately)
- „Sand fighter®“ Motor with SiC-Shaft Seal
- Lead in different lengths up to 50m

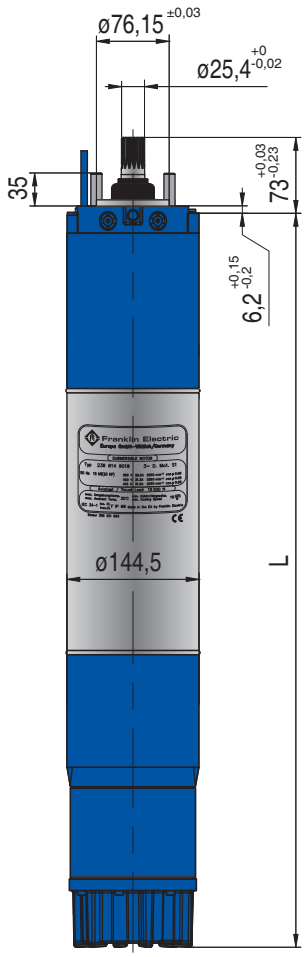
It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

Performance table at ~2850 rpm

Three-Phase 6" Rewindable Motors 400V

P_N		Thrust	n_N	I_N	I_A	η	cos φ	T_N	T_A	L	Weight
[kW]	[HP]	F [N]	[min^{-1}]	[A]	[A]	[%]	[%]	[Nm]	[Nm]	[mm]	[kg]
4	5,5	15500	2930	10,6	51	0,76	0,73	13,1	17,3	699	48
5,5	7,5	15500	2890	13,3	51	0,76	0,81	18,2	17,3	699	48
7,5	10	15500	2880	17,7	63	0,77	0,82	24,8	21,5	719	50
9,3	12,5	15500	2870	21,4	78	0,78	0,82	31,0	29,0	749	53
11	15	15500	2880	25,2	98	0,79	0,83	36,4	35,3	779	56
13	17,5	15500	2900	29,6	125	0,80	0,81	42,8	50,3	829	61
15	20	15500	2890	33,1	148	0,81	0,83	49,4	60,4	874	66
18,5	25	15500	2880	42,0	182	0,81	0,80	61,2	84,3	919	70
22	30	15500	2900	49,0	231	0,82	0,80	72,5	102,2	1009	79
26	35	15500	2900	56,7	284	0,83	0,83	85,6	134,7	1114	90
30	40	27500	2910	66,4	347	0,83	0,80	98,4	151,0	1214	100
37	50	27500	2900	81,9	433	0,83	0,80	121,6	215,8	1294	107

Dimensions



It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

8" Encapsulated Motors



SUBMERSIBLE MOTORS

These 8" encapsulated motors, manufactured in ISO 9001 certified facilities, are built for dependable operation in 8" diameter or larger water wells.
It is fitted with water lubricated radial and thrust bearings for maintenance-free operation. A special diaphragm ensures pressure compensation inside the motor. The motor is filled with a special FES91 fluid, providing frost protection down to -15°C storage temperature.
The Sand fighter® SiC seal system is the option for sandy applications.

FEATURES

- Hermetically sealed stator, Anti track, self healing stator resin prevents motor burn out
- Removable “Water Bloc” lead connector
- Cable material according to drinking water regulations (KTW approved)
- Sand slinger and Mechanical seal for high performance in sand
- High efficiency electrical design for low operation cost
- All motors prefilled and 100% tested
  Max. storage temperature -15°C – + 60°C
- Non contaminating FES91- filled design

SPECIFICATIONS

- 30 - 150 kW
- 8" NEMA flange
- Protection: IP 68
- Starts per hour: 20
- Installation: vertical/horizontal
- Standard voltage: 380 - 415V/50Hz, 460V/60Hz
  Voltage tolerance: +6% / -10%
  (Standard: 415 + 6% = 440V,380 – 10% = 342V)
- Motor protection: Select thermal overloads according to DIN 60947-4-1, trip class 10 or 10A, trip time < 10 s at 5 x I_N
- Insulation: Class F
- YΔ - start (pos. of cables 90°)
- Rated ambient temperature: 30°C
- Cooling flow: min. 0,16 m/s
- Built-in Subtrol Heat Sensor
- Motor lead in 8 m length (KTW approved)

AVAILABLE OPTIONS

- Other voltages
- Motors complete in 316 SS
- PT 100 temperature sensor (sold separately)
- „Sand fighter®“ Motor with SiC- Mechanical seal

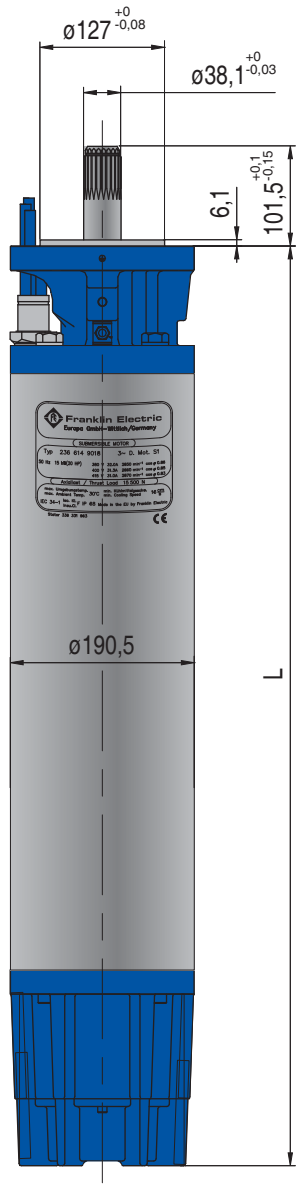
It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

Performance table at ~2900 rpm

Three-Phase 8" Encapsulated Motors 400V

P_N		Thrust	n_N	I_N	I_A	η	cos φ	T_N	T_A	L	Weight
[kW]	[HP]	F [N]	[min^{-1}]	[A]	[A]	[%]	[%]	[Nm]	[Nm]	[mm]	[kg]
30	40	45000	2900	61	418	86	0,84	97	255	909	116
37	50	45000	2920	74	534	87	0,86	121	295	986	131
45	60	45000	2920	89	645	87	0,85	145	395	1062	145
55	75	45000	2920	108	862	88	0,87	182	563	1204	175
75	100	45000	2925	145	1157	87	0,87	242	561	1395	213
93	125	45000	2930	190	1332	87	0,83	302	567	1747	291
110	150	45000	2930	222	1597	88	0,84	363	769	1975.6	334
130	175	45000	2920	252	1738	88	0,87	424	927	2178.8	380
150	200	45000	2920	284	1858	88	0,88	485	1034	2407.4	429

Dimensions



It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

RW8

8" Rewindable Motors



SUBMERSIBLE MOTORS

These 8" rewindable motors, manufactured in ISO 9001 certified facilities, are built for dependable operation in 8" diameter or larger water wells. It is fitted with water lubricated radial and thrust bearings for maintenance-free operation. The motor is filled with a special FES93 fluid, providing frost protection down to -15°C storage temperature.
A special diaphragm ensures pressure compensation inside the motor. The Sand fighter® SiC seal system is standard. For applications in aggressive media, motors made of 316SS and 904L are available.

FEATURES

- Easy to assemble with double flange
- Cable material according to drinking water regulations (KTW approved)
- Sand fighter® SiC seal system for high performance in sand
- High efficiency electrical design for low operation cost
- All motors prefilled and 100% tested
- Max. storage temperature -15°C – + 60°C
- Design for retrofitable PT100 sensor
- Non contaminating FES93- filled design

SPECIFICATIONS

- 30 - 93 kW
- 8" NEMA flange
- Protection: IP 68
- Starts per hour: max. 20
- Installation position: vertical / horizontal
- (93 kW motors may not be installed horizontally)
- Motor Lead in 6 m length (KTW approved)
- Standard voltage: 380-415V/50Hz, 460V60Hz;
  Voltage tolerance: +6% / -10% (Standard: 415 + 6% = 440V, 380 – 10% = 342V)
- Motor protection: Select thermal overloads according to EN 60947-4-1, trip class 10 or 10A, trip time < 10 s at 5 x I_N
- YΔ - start (pos. of cables 90°)
- Standard motor with PVC winding insulation
- For max. ambient temp. of 30°C with a min. cooling flow:
  30 kW - 52 kW v = 0,2 m/s
  55 kW - 93 kW v = 0,5 m/s

AVAILABLE OPTIONS

- Other voltages
- Motors in complete 316 SS and 904 L
- YΔ - start (pos. of cables 90°)
- PE2/PA winding insulation for max. ambient temp. of 50°C at the same cooling conditions as standard
- PT 100 temperature sensor (sold separately)
- Lead in different lengths up to 50m

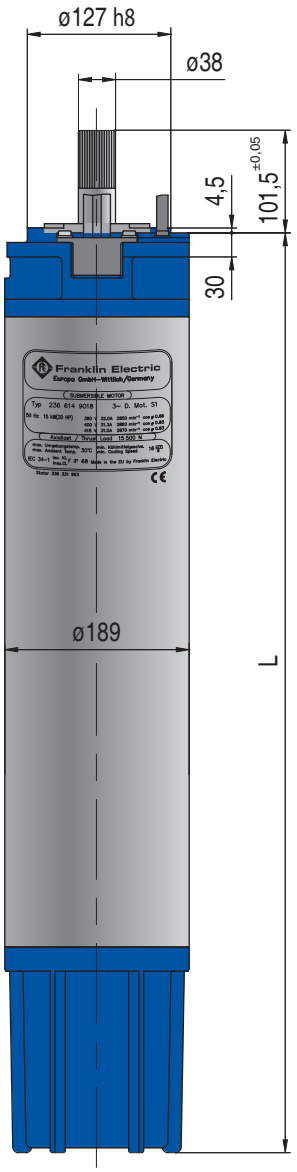
It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

Performance table at ~2900 rpm

Three-Phase 8" Rewindable Motors 400V

P_N		Thrust	n_N	I_N	I_A	η	cos φ	T_N	T_A	L	Weight
[kW]	[HP]	F [N]	[min^{-1}]	[A]	[A]	[%]	[%]	[Nm]	[Nm]	[mm]	[kg]
30	40	45 000	2900	60	318	0,84	0,89	99	141	1140	140
37	50	45 000	2900	76	400	0,84	0,86	122	176	1140	140
45	60	45 000	2910	90	520	0,86	0,86	148	241	1230	156
52	70	45 000	2910	103	608	0,86	0,87	175	318	1340	179
55	75	45 000	2915	110	660	0,86	0,86	181	340	1340	179
60	80	45 000	2910	116	725	0,87	0,88	197	357	1470	198
67	90	45 000	2910	133	797	0,87	0,86	220	359	1470	198
75	100	45 000	2910	148	942	0,87	0,87	246	472	1560	215
83	110	45 000	2920	160	1077	0,88	0,88	273	544	1560	247
93	125	45 000	2920	183	1276	0,88	0,86	305	626	1740	247

Dimensions



It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

VS25 Series Stainless Steel Submersible Pumps for 6" deep wells and larger

Hydraulic Performances

50 Hz

VS25
TABLE OF HYDRAULIC PERFORMANCES AT 50Hz

PUMP TYPE	RATED POWER		Q = DELIVERY									
			m³/h	0	8	12	16	20	24	28	32	36	40
			l/min	0	133	200	266	333	400	466	533	600	666
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER [m]										
VS 25/3	4	5,5	36,3			32,8	30,7	28,5	25,1	21,0	17,1	12,0	
VS 25/4	4	5,5	48,4			43,8	41,0	38,1	33,4	28,0	22,8	16,0	
VS 25/5	5,5	7,5	60,5			54,7	51,2	47,6	41,8	35,0	28,5	20,0	
VS 25/6	7,5	10	72,6			65,7	61,5	57,1	50,1	42,0	34,2	24,0	
VS 25/7	7,5	10	84,7			76,6	71,7	66,6	58,5	49,0	39,9	28,0	
VS 25/8	11	15	96,8			87,5	81,9	76,1	66,9	56,0	45,6	32,0	
VS 25/9	11	15	108,9			98,5	92,2	85,6	75,2	63,0	51,3	36,0	
VS 25/10	11	15	121,0			109,4	102,4	95,1	83,6	70,0	57,0	40,0	
VS 25/11	11	15	133,1			120,4	112,7	104,7	91,9	77,0	62,7	44,0	
VS 25/12	15	20	145,2			131,3	122,9	114,2	100,3	84,0	68,4	48,0	
VS 25/13	15	20	157,3			142,3	133,2	123,7	108,6	91,0	74,1	52,0	
VS 25/14	15	20	169,4			153,2	143,4	133,2	117,0	98,0	79,8	56,0	
VS 25/15	15	20	181,5			164,1	153,6	142,7	125,4	105,0	85,5	60,0	
VS 25/16	18,5	25	193,6			175,1	163,9	152,2	133,7	112,0	91,2	64,0	
VS 25/17	18,5	25	205,7			186,0	174,1	161,7	142,1	119,0	96,9	68,0	
VS 25/18	18,5	25	217,8			197,0	184,4	171,3	150,4	126,0	102,6	72,0	
VS 25/19	18,5	25	229,9			207,9	194,6	180,8	158,8	133,0	108,3	76,0	
VS 25/20	22	30	242,0			218,9	204,9	190,3	167,1	140,0	114,0	80,0	
VS 25/21	22	30	254,1			229,8	215,1	199,8	175,5	147,0	119,7	84,0	
VS 25/22	22	30	266,2			240,7	225,3	209,3	183,9	154,0	125,4	88,0	
VS 25/23	22	30	278,3			251,7	235,6	218,8	192,2	161,0	131,1	92,0	
VS 25/24	30	40	290,4			262,6	245,8	228,3	200,6	168,0	136,8	96,0	
VS 25/25	30	40	302,5			273,6	256,1	237,9	208,9	175,0	142,5	100,0	
VS 25/26	30	40	314,6			284,5	266,3	247,4	217,3	182,0	148,2	104,0	
VS 25/27	30	40	326,7			295,5	276,6	256,9	225,6	189,0	153,9	108,0	
VS 25/28	30	40	338,8			306,4	286,8	266,4	234,0	196,0	159,6	112,0	
VS 25/29	30	40	350,9			317,3	297,0	275,9	242,4	203,0	165,3	116,0	
VS 25/30	30	40	363,0			328,3	307,3	285,4	250,7	210,0	171,0	120,0	
VS 25/31	30	40	375,1			339,2	317,5	294,9	259,1	217,0	176,7	124,0	
VS 25/32	37	50	387,2			350,2	327,8	304,5	267,4	224,0	182,4	128,0	
VS 25/33	37	50	399,3			361,1	338,0	314,0	275,8	231,0	188,1	132,0	
VS 25/34	37	50	411,4			372,1	348,3	323,5	284,1	238,0	193,8	136,0	
VS 25/35	37	50	423,5			383,0	358,5	333,0	292,5	245,0	199,5	140,0	
VS 25/36	37	50	435,6			393,9	368,7	342,5	300,9	252,0	205,2	144,0	
VS 25/37	37	50	447,7			404,9	379,0	352,0	309,2	259,0	210,9	148,0	
VS 25/38	37	50	459,8			415,8	389,2	361,5	317,6	266,0	216,6	152,0	
VS 25/39	45	60	471,9			426,8	399,5	371,1	325,9	273,0	222,3	156,0	
VS 25/40	45	60	484,0			437,7	409,7	380,6	334,3	280,0	228,0	160,0	
VS 25/41	45	60	496,1			448,7	420,0	390,1	342,6	287,0	233,7	164,0	
VS 25/42	45	60	508,2			459,6	430,2	399,6	351,0	294,0	239,4	168,0	
VS 25/43	45	60	520,3			470,5	440,4	409,1	359,4	301,0	245,1	172,0	
VS 25/44	45	60	532,4			481,5	450,7	418,6	367,7	308,0	250,8	176,0	
VS 25/45	45	60	544,5			492,4	460,9	428,1	376,1	315,0	256,5	180,0	
VS 25/46	45	60	556,6			503,4	471,2	437,7	384,4	322,0	262,2	184,0	

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

VS25 Series Stainless Steel Submersible Pumps for 6" deep wells and larger

Technical Data and Performance Curves

50 Hz

VS 25

Technical data 50Hz

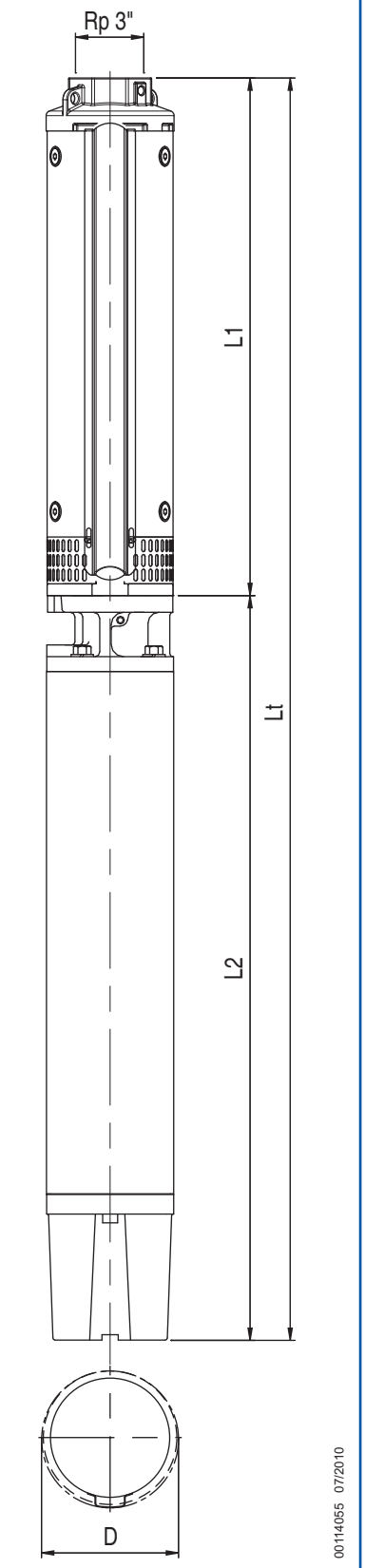
Pumps with Encapsulated Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 25/3	E4	3	4	434,5	477	911,5	142,5	-	28,5
VS 25/4	E4	4	5,5	481	543	1024	142,5	-	32,5
VS 25/5	E4	5,5	7,5	527,5	652,5	1180	142,5	-	40
VS 25/6	E4	7,5	10	574	730,5	1304,5	142,5	-	45
VS 25/7	E4	7,5	10	620,5	730,5	1351	142,5	-	46
VS 25/3	E6	4	5,5	432	581	1013	143	144,5	49
VS 25/4	E6	4	5,5	478,5	581	1059,5	143	144,5	50
VS 25/5	E6	5,5	7,5	525	614,5	1139,5	143	144,5	54,5
VS 25/6	E6	7,5	10	571,5	646	1217,5	143	144,5	59,5
VS 25/7	E6	7,5	10	618	646	1264	143	144,5	60,5
VS 25/8	E6	11	15	664,5	711	1375,5	143	144,5	67,5
VS 25/9	E6	11	15	711	711	1422	143	144,5	68,5
VS 25/10	E6	11	15	757,5	711	1468,5	143	144,5	70
VS 25/11	E6	11	15	804	711	1515	143	144,5	70,5
VS 25/12	E6	15	20	850,5	776	1626,5	143	144,5	77,5
VS 25/13	E6	15	20	897	776	1673	143	144,5	79
VS 25/14	E6	15	20	943,5	776	1719,5	143	144,5	79
VS 25/15	E6	15	20	990	776	1766	143	144,5	79,5
VS 25/16	E6	18,5	25	1036,5	841,5	1878	143	144,5	88
VS 25/17	E6	18,5	25	1083	841,5	1924,5	143	144,5	88,5
VS 25/18	E6	18,5	25	1129,5	841,5	1971	143	144,5	89,5
VS 25/19	E6	18,5	25	1176	841,5	2017,5	143	144,5	90,5
VS 25/20	E6	22	30	1222,5	906,5	2129	143	144,5	97,5
VS 25/21	E6	22	30	1269	906,5	2175,5	143	144,5	98,5
VS 25/22	E6	22	30	1315,5	906,5	2222	143	144,5	99,5
VS 25/23	E6	22	30	1362	906,5	2268,5	143	144,5	100,5

Pumps with Rewindable Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 25/3	RW6	4	5,5	432	699	1131	147	147,5	59,5
VS 25/4	RW6	4	5,5	478,5	699	1177,5	147	147,5	60,5
VS 25/5	RW6	5,5	7,5	525	699	1224	147	147,5	61,5
VS 25/6	RW6	7,5	10	571,5	719	1290,5	147	147,5	64,5
VS 25/7	RW6	7,5	10	618	719	1337	147	147,5	65,5
VS 25/8	RW6	11	15	664,5	779	1443,5	147	147,5	72,5
VS 25/9	RW6	11	15	711	779	1490	147	147,5	73,5
VS 25/10	RW6	11	15	757,5	779	1536,5	147	147,5	75
VS 25/11	RW6	11	15	804	779	1583	147	147,5	75,5
VS 25/12	RW6	13	17,5	850,5	829	1679,5	147	147,5	82
VS 25/13	RW6	13	17,5	897	829	1726	147	147,5	83,5
VS 25/14	RW6	15	20	943,5	874	1817,5	147	147,5	88,5
VS 25/15	RW6	15	20	990	874	1864	147	147,5	89
VS 25/16	RW6	18,5	25	1036,5	919	1955,5	147	147,5	94,5
VS 25/17	RW6	18,5	25	1083	919	2002	147	147,5	95
VS 25/18	RW6	18,5	25	1129,5	919	2048,5	147	147,5	96
VS 25/19	RW6	18,5	25	1176	919	2095	147	147,5	97
VS 25/20	RW6	22	30	1222,5	1009	2231,5	147	147,5	107
VS 25/21	RW6	22	30	1269	1009	2278	147	147,5	108
VS 25/22	RW6	22	30	1315,5	1009	2324,5	147	147,5	109
VS 25/23	RW6	22	30	1362	1009	2371	147	147,5	110

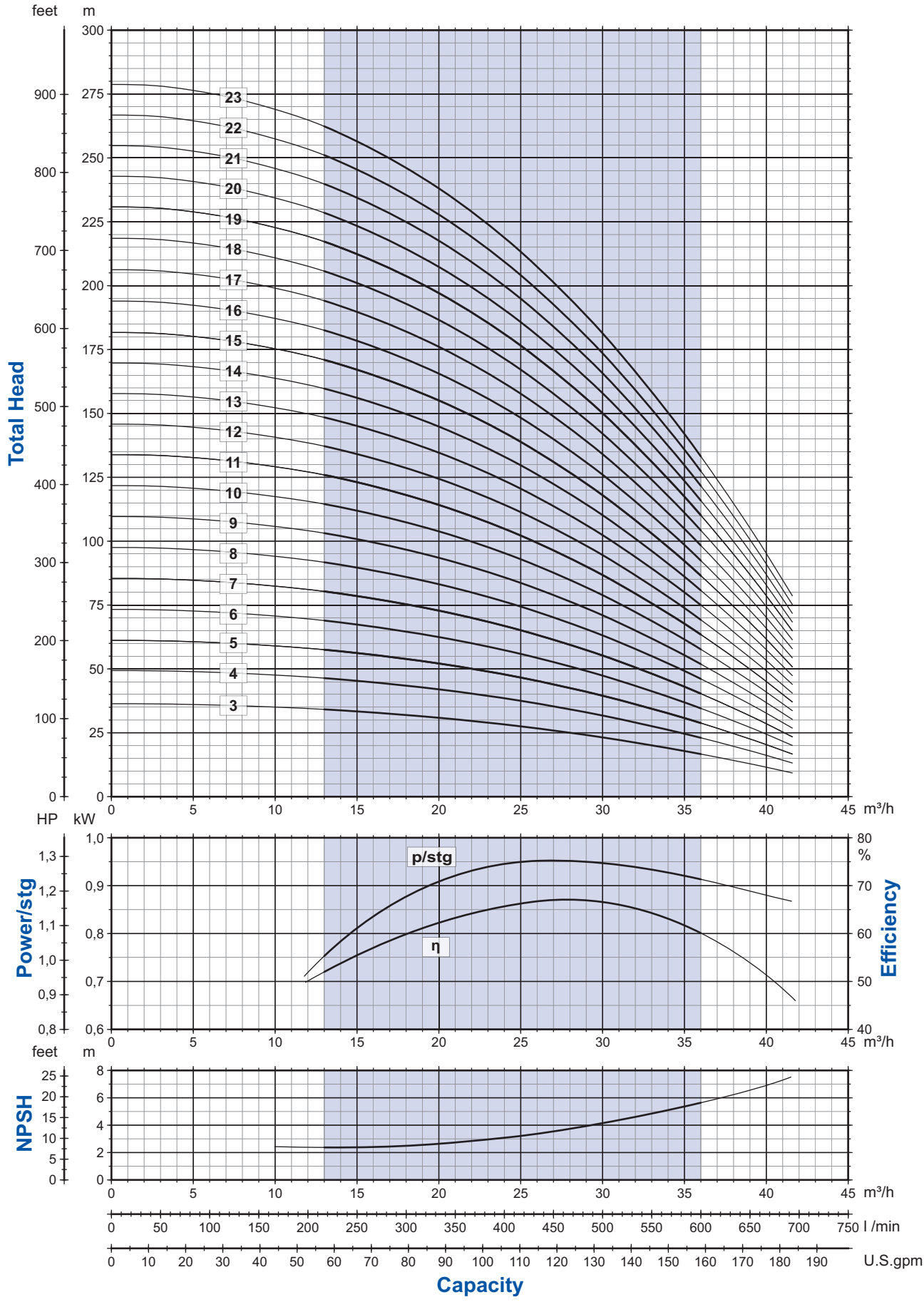
Dimensions



It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

E-Tech by Franklin Electric

Performance curves 50Hz



VS 25

Technical data 50Hz

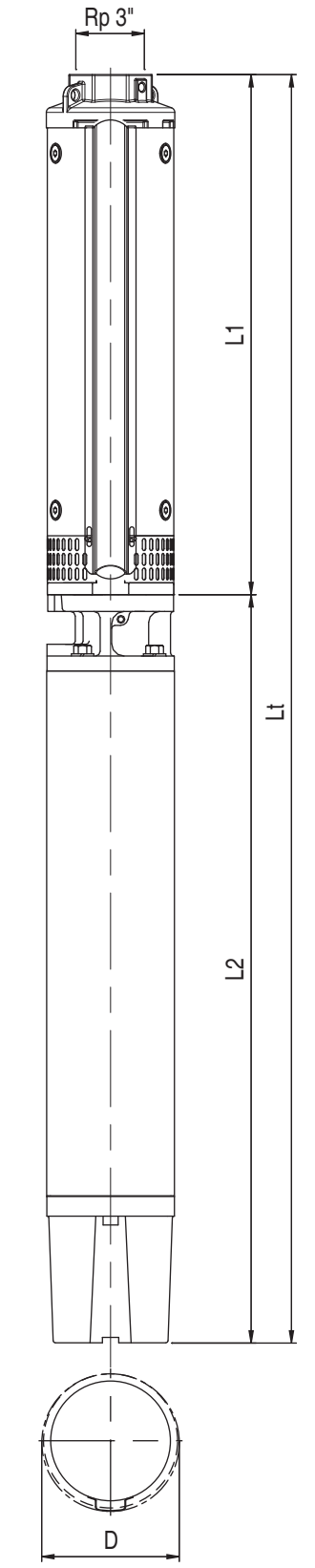
Pumps with Encapsulated Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 25/24	E6	30	40	1408,5	1036,5	2445	143	144,5	116
VS 25/25	E6	30	40	1454,5	1036,5	2491	143	144,5	117
VS 25/26	E6	30	40	1501	1036,5	2537,5	143	144,5	119
VS 25/27	E6	30	40	1547,5	1036,5	2584	143	144,5	119
VS 25/28	E6	30	40	1594	1036,5	2630,5	143	144,5	120
VS 25/29	E6	30	40	1640,5	1036,5	2677	143	144,5	121
VS 25/30	E6	30	40	1687	1036,5	2723,5	143	144,5	122
VS 25/31	E6	30	40	1733,5	1036,5	2770	143	144,5	123
VS 25/32	E6	37	50	1780	1421,5	3201,5	143	144,5	178
VS 25/33	E6	37	50	1826,5	1421,5	3248	143	144,5	179
VS 25/34	E6	37	50	1873	1421,5	3294,5	143	144,5	180
VS 25/35	E6	37	50	1919,5	1421,5	3341	143	144,5	181
VS 25/36	E6	37	50	1966	1421,5	3387,5	143	144,5	182
VS 25/37	E6	37	50	2012,5	1421,5	3434	143	144,5	183
VS 25/38	E6	37	50	2059	1421,5	3480,5	143	144,5	183,5
VS 25/39	E6	45	60	2105	1574	3679	143	144,5	199
VS 25/40	E6	45	60	2151,5	1574	3725,5	143	144,5	200
VS 25/41	E6	45	60	2198	1574	3772	143	144,5	201
VS 25/42	E6	45	60	2244,5	1574	3818,5	143	144,5	202
VS 25/43	E6	45	60	2291	1574	3865	143	144,5	203
VS 25/44	E6	45	60	2337,5	1574	3911,5	143	144,5	204
VS 25/45	E6	45	60	2384	1574	3958	143	144,5	205
VS 25/46	E6	45	60	2430,5	1574	4004,5	143	144,5	206

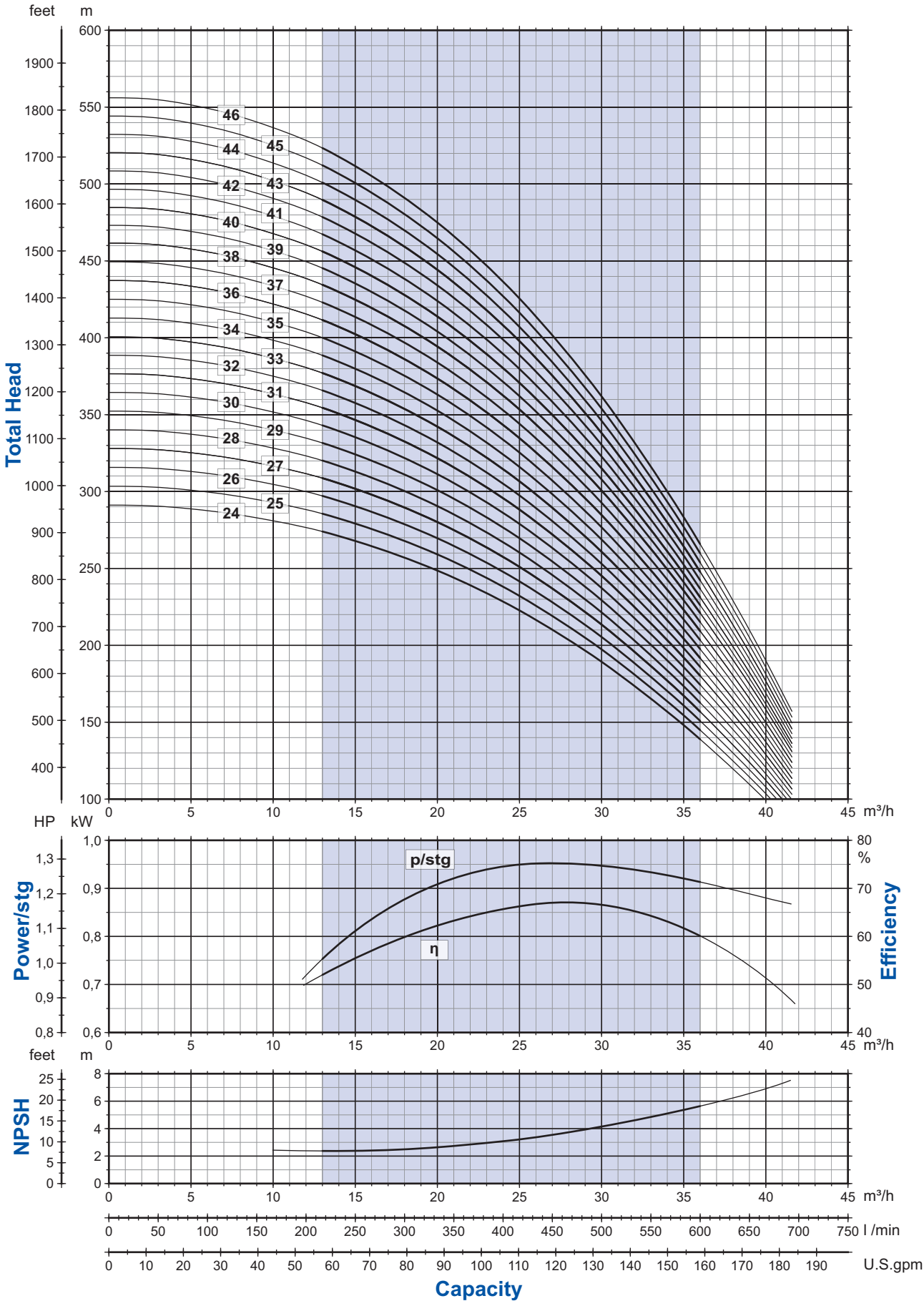
Pumps with Rewindable Motor

Pump model type	Motor			Dimensions					Weight Pump [Kg]
	Type	kW	HP	L1 [mm]	L2 [mm]	Lt [mm]	D 1 cable	D 2 cable	
VS 25/24	RW6	26	35	1408,5	1114	2522,5	147	147,5	98,5
VS 25/25	RW6	26	35	1454,5	1114	2568,5	147	147,5	92
VS 25/26	RW6	26	35	1501	1114	2615	147	147,5	92,5
VS 25/27	RW6	26	35	1547,5	1114	2661,5	147	147,5	94,5
VS 25/28	RW6	30	40	1594	1214	2808	147	147,5	94,5
VS 25/29	RW6	30	40	1640,5	1214	2854,5	147	147,5	95
VS 25/30	RW6	30	40	1687	1214	2901	147	147,5	96
VS 25/31	RW6	30	40	1733,5	1214	2947,5	147	147,5	103
VS 25/32	RW6	37	50	1780	1294	3074	147	147,5	103,5
VS 25/33	RW6	37	50	1826,5	1294	3120,5	147	147,5	104,5
VS 25/34	RW6	37	50	1873	1294	3167	147	147,5	105
VS 25/35	RW6	37	50	1919,5	1294	3213,5	147	147,5	106
VS 25/36	RW6	37	50	1966	1294	3260	147	147,5	106,5
VS 25/37	RW6	37	50	2012,5	1294	3306,5	147	147,5	122,5
VS 25/38	RW6	37	50	2059	1294	3353	147	147,5	124

Dimensions



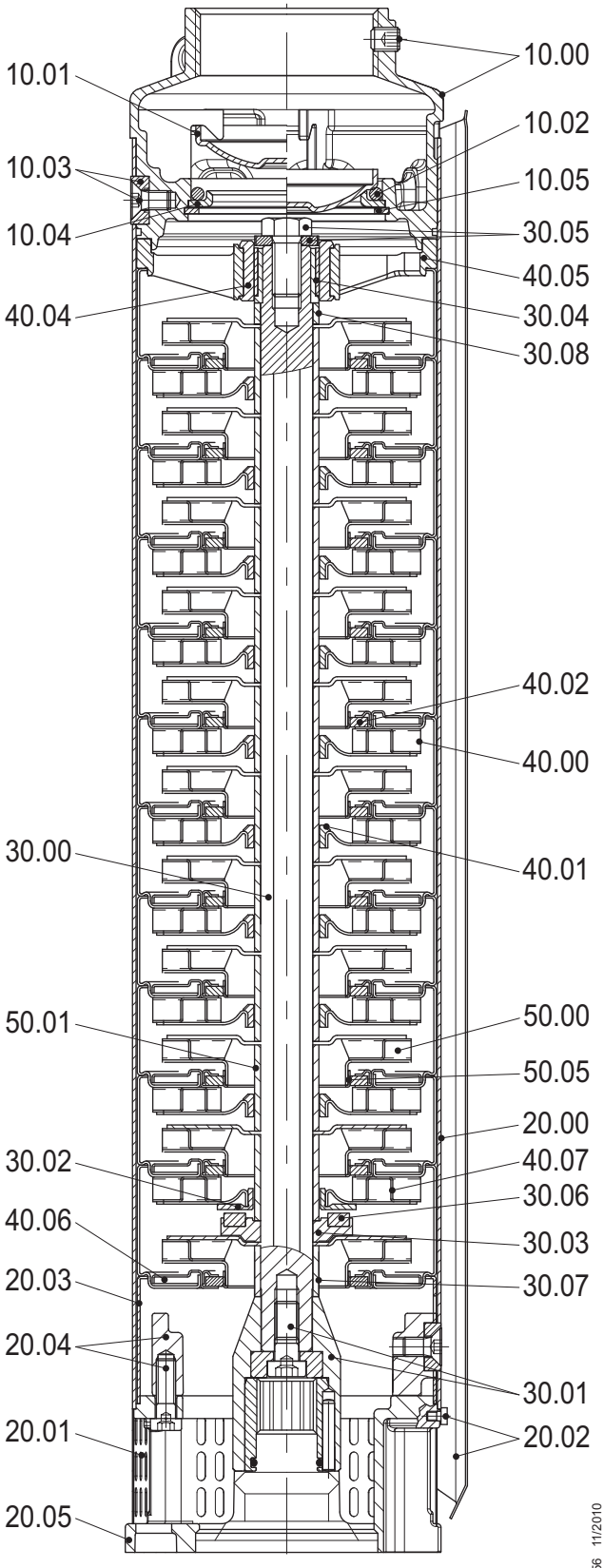
Performance curves 50Hz



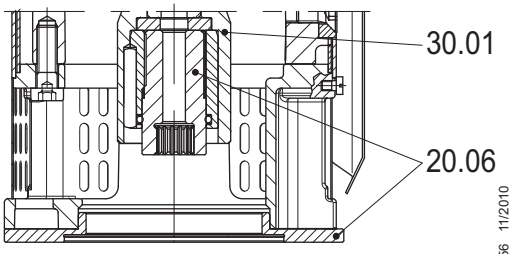
The hydraulic characteristics are guaranteed, according to ISO standard 9906, Annex A, grade 2.

It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

Section and List of Main Components
VS 25



Ref. N.	Description
10 00	Discharge head and screw
10 01	Valve
10 02	O-ring
10 03	Screws and outer case locking nuts
10 04	Valve support
10 05	Seeger ring
20 00	Outer case
20 01	Suction strainer
20 02	Cable guard and screws
20 03	Initial spacer
20 04	Flange and bolts
20 05	Motor adapter
20 06	4" motor flange / coupling adapter
30 00	Pump shaft
30 01	Coupling
30 02	Upper up-thrust washer
30 03	Lower up-thrust washer
30 04	Upper journal sleeve
30 05	Screw and washer
30 06	Up-thrust ring
30 07	Lower spacer
30 08	Upper spacer
40 00	Diffusers
40 01	Secondary bearing bush
40 02	Floating neck ring
40 04	Bearing bush
40 05	Upper bearing guide
40 06	First diffuser
40 07	Diffuser with upper up-thrust washer
50 00	Impeller
50 01	Secondary journal sleeve
50 05	Wear ring



It is our policy to continuously develop and improve our products, therefore, we reserve the right to amend specifications without prior notice.

E-Tech by Franklin Electric

00103930_ed.11/2010