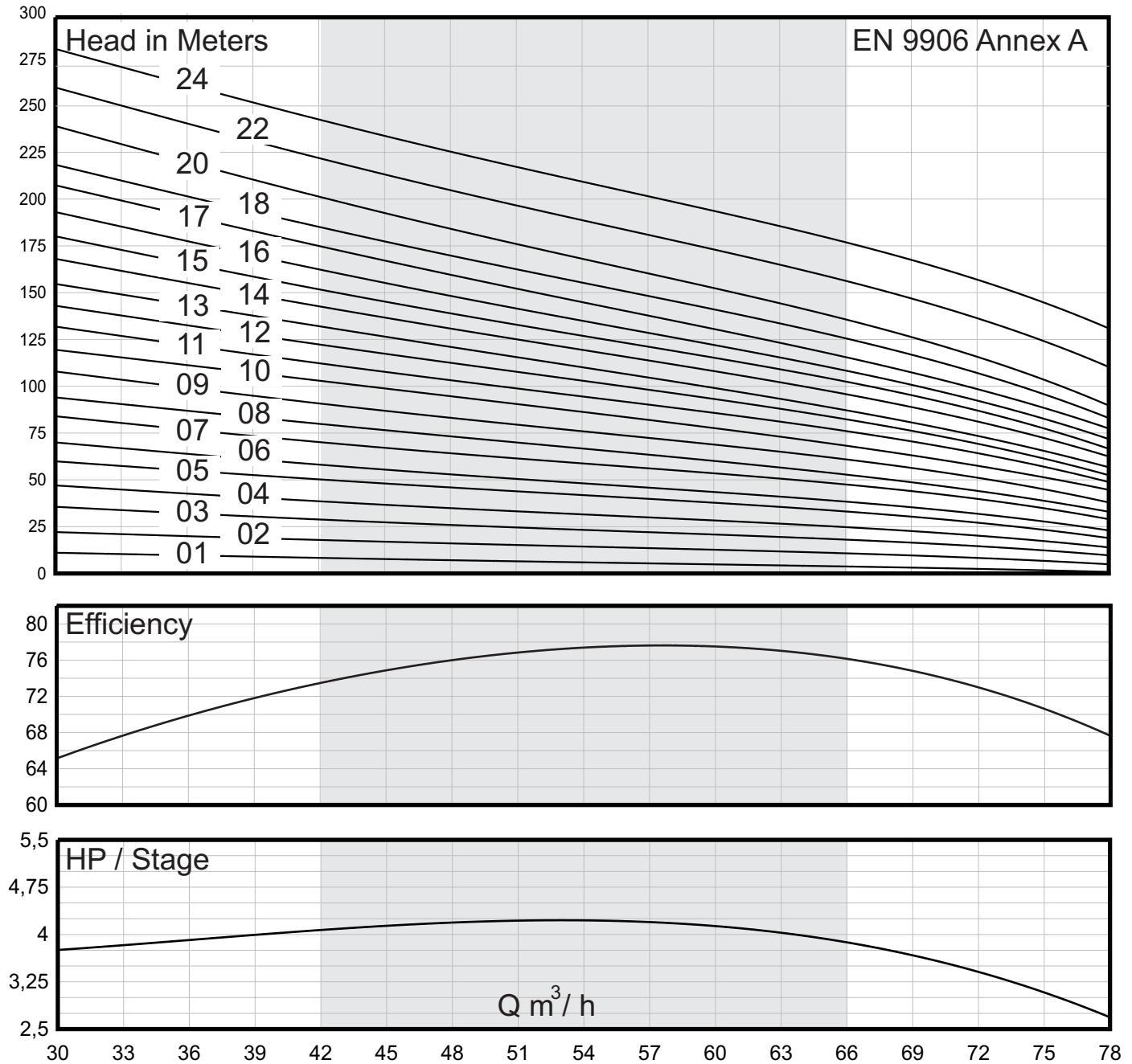


# VECTOR ELECTRIC INTERNATIONAL

## STAINLESS STEEL SUBMERSIBLE PUMPS





TYPE & STAGES	POWER		l/sec m <sup>3</sup> /h	0,00	8,33	10,00	11,66	13,33	15,00	16,66	18,33	20,00	21,66
	HP	kW		0,0	30,0	36,0	42,0	48,0	54,0	60,0	66,0	72,0	78,0
VE 6 S 166 / 01	3	2,2	Head In Meters	14	11	10	8	7	6	5	4	2	1
VE 6 S 166 / 02	5,5	4		28	22	20	18	16	14	13	11	8	5
VE 6 S 166 / 03	7,5	5,5		41	36	32	28	26	24	21	18	14	10
VE 6 S 166 / 04	10	7,5		56	47	43	38	35	32	28	25	20	14
VE 6 S 166 / 05	12,5	9,2		69	60	55	50	46	42	38	33	27	19
VE 6 S 166 / 06	15	11		82	70	64	58	53	48	44	38	32	23
VE 6 S 166 / 07	17,5	13		97	84	77	70	64	59	54	47	40	29
VE 6 S 166 / 08	20	15		110	94	87	80	73	67	60	53	44	33
VE 6 S 166 / 09	25	18,5		125	108	99	91	83	76	69	61	51	38
VE 6 S 166 / 10	25	18,5		140	120	111	102	95	87	78	68	57	45
VE 6 S 166 / 11	30	22		154	132	122	112	103	95	86	76	64	49
VE 6 S 166 / 12	30	22		166	143	133	122	112	103	94	83	68	53
VE 6 S 166 / 13	35	26		179	155	143	132	121	110	100	87	73	57
VE 6 S 166 / 14	35	26		194	168	156	142	130	120	109	96	80	63
VE 6 S 166 / 15	35	26		210	180	166	152	138	127	116	103	86	67
VE 6 S 166 / 16	40	30		222	193	178	162	148	135	123	108	92	72
VE 6 S 166 / 17	50	37		240	207	192	175	158	145	132	116	97	78
VE 6 S 166 / 18	50	37		251	218	202	185	170	155	141	126	107	83
VE 6 S 166 / 20	50	37		278	239	220	201	184	168	153	136	115	90
VE 6 S 166 / 22	60	45		305	264	243	222	204	186	169	149	127	99
VE 6 S 166 / 24	60	45		333	289	265	243	222	203	185	162	138	108

# VE 6 S 166

## Submersible Pumps

### TECHNICAL SPECIFICATIONS

#### LIQUID BEING PUMPED

Chemically and mechanically non aggressive.  
 Temperature min=0°C max=40°C.  
 Maximum allowable solid quantity = 50 g/m<sup>3</sup>  
 Maximum allowable solid dimension: Max 2 mm

#### OPERATING RANGE AT 2900 RPM:

Power = 3 HP - 50 HP  
 Qmax= 78 m<sup>3</sup>/h

#### AT THE BEST EFFICIENCY POINT:

Q= 60 m<sup>3</sup>/h  
 H= 185 m

#### MAXIMUM EXTERNAL PUMP DIAMETER:

145 mm (Including cable guard)

#### OUTLET DIAMETER:

4"

#### MAXIMUM DEPTH OF APPLICATION:

Up to 400 m below the water level

#### MAXIMUM WORKING PRESSURE:

40 atm

#### MINIMUM LIQUID LEVEL:

800 mm

#### MAXIMUM HEAD:

289 m

#### IMPELLER TYPE:

Semiaxial

### MATERIAL LIST

PART NAME	MATERIAL
Shaft	Stainless steel (AISI 420)
Support	Stainless steel (AISI 304)
Coupling	Stainless steel (AISI 304)
Coupling screw	Stainless steel (AISI 304)
Bearing	Rubber/Steel
Diffuser	Stainless steel (AISI 304)
Wear ring	Rubber/Steel
Impeller	Stainless steel (AISI 304)
Bushing	Stainless steel (AISI 304)
Nut	Stainless steel (AISI 304)
Valve body	Stainless steel (AISI 304)
Valve	Stainless steel (AISI 304)
Valve spring	Stainless steel (AISI 304)
Strainer	Stainless steel (AISI 304)
Cable guard	Stainless steel (AISI 304)
Tie-bolt	Stainless steel (AISI 304)

### OPTIONS

Motor-pump : Cooling shroud

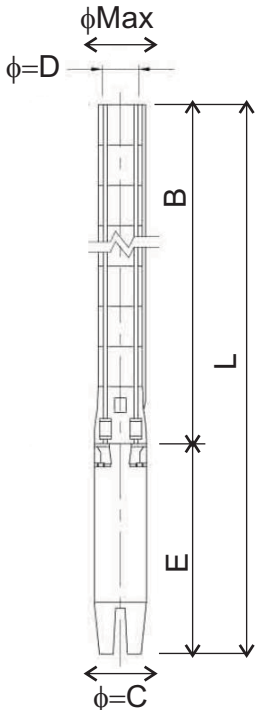
### INFORMATIONS

Rotation: Counterclockwise

Shaft End: NEMA Standard

Shaft Diameter: 20 mm

**VECTOR**  **ELECTRIC**  
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TYPE & STAGES	POWER		PUMP & MOTOR DIMENSIONS ( mm )						PUMP & MOTOR WEIGHT ( kg )		
	HP	kW	L	E	B	Ø = C	Ø = D	Ø GROUP	MOTOR	PUMP	TOTAL
VE 6 S 166 / 01	3	2,2	892	509	383	145	4"	146	18	6,9	24,5
VE 6 S 166 / 02	5,5	4	1106	610	496	145	4"	146	45	9,2	54,2
VE 6 S 166 / 03	7,5	5,5	1259	650	609	145	4"	146	50	11,5	61,5
VE 6 S 166 / 04	10	7,5	1412	690	722	145	4"	152	55	13,7	68,7
VE 6 S 166 / 05	12,5	9,2	1565	730	835	145	4"	152	60	16	76,0
VE 6 S 166 / 06	15	11	1728	780	948	145	4"	152	65	18,3	83,3
VE 6 S 166 / 07	17,5	13	1841	780	1061	145	4"	152	65	20,6	85,6
VE 6 S 166 / 08	20	15	2054	880	1174	145	4"	152	77	22,9	99,9
VE 6 S 166 / 09	25	18,5	2267	980	1287	145	4"	152	88	25,1	113,1
VE 6 S 166 / 10	25	18,5	2380	980	1400	145	4"	152	88	27,4	115,4
VE 6 S 166 / 11	30	22	2543	1030	1513	145	4"	152	93	29,7	122,7
VE 6 S 166 / 12	30	22	2656	1030	1626	145	4"	152	93	32	125,0
VE 6 S 166 / 13	35	26	2849	1110	1739	145	4"	152	105	34,3	139,3
VE 6 S 166 / 14	35	26	2962	1110	1852	145	4"	152	105	36,5	141,5
VE 6 S 166 / 15	35	26	3075	1110	1965	145	4"	152	105	38,8	143,8
VE 6 S 166 / 16	40	30	3268	1190	2078	145	4"	152	112	41,1	153,1
VE 6 S 166 / 17	50	37	3401	1210	2191	145	4"	152	114	43,4	157,4
VE 6 S 166 / 18	50	37	3514	1210	2304	146	4"	152	114	45,7	159,7
VE 6 S 166 / 20	50	37	3740	1210	2530	147	4"	152	114	50,2	164,2
VE 6 S 166 / 22	60	45	4031	1275	2756	145	4"	152	116	54,7	170,7
VE 6 S 166 / 24	60	45	4257	1275	2982	145	4"	152	116	59,2	175,2