



CONTENT

Certificates	04
General information	05
Material Data	07
VOLC 4" Pump Series	08
VOLC 5" Pump Series	11
VOLC 6" Pump Series	15
VOLC 7" Pump Series	35
VOLC 8" Pump Series	40
VOLC 10" Pump Series	51
VOLC MOTORS Series	54
Spare parts	68
Table of head losses	69
Cable selection	71



Certificates



General Information

01

PUMPED LIQUIDS

Clean.

Thin.

non-aggressive liquids without solid particles or fibers.

The max. sand content is 50 mg/lit.

02

INTERNATIONAL CERTIFICATES

All products meet international standards.

ISO 5199:2003

ISO 2858:2010

ISO 9906:2012

ISO 9001:2015

CE

SASO

03

CURVE CONDITIONS

The performance curves show pump performance at actual speed cf. standard motor range.

The speed of the motors is approximate:

4" and 6" motors: $n=2870 \text{ min}^{-1}$

8" to 12" motors: $n=2900 \text{ min}^{-1}$

The measurements were made with airless water at a temperature of 30°C.

The colored section of the table indicates the recommended performance range.

The performance curves are inclusive of possible losses $\pm 5\%$.

Rewindable motor

Single-phase: 220 - 240V/50Hz

Three-phase: 380 - 415V/50Hz

Equip with start control box or digital auto-control box Pumps are designed by casing stressed

NEMA dimension standards.

General Information

TYPE KEY



MODEL	SEP 8160 / 03 K		
H - M	59 - 35		
Q - m³/h	140 - 200		
HP	50	KW	37
Frequency	50 Hz		
Speed	2900 rpm		
S.N.	20XXXXXXX-56XXX		

STAINLESS STEEL SUBMERSIBLE PUMP

Made In Turkey CE

Example ——— SEP 8-160 / 03 - K

Product Type				
Pump Diameter				
Rated Flow (m ³ /h)				
Stages				
Material Options				

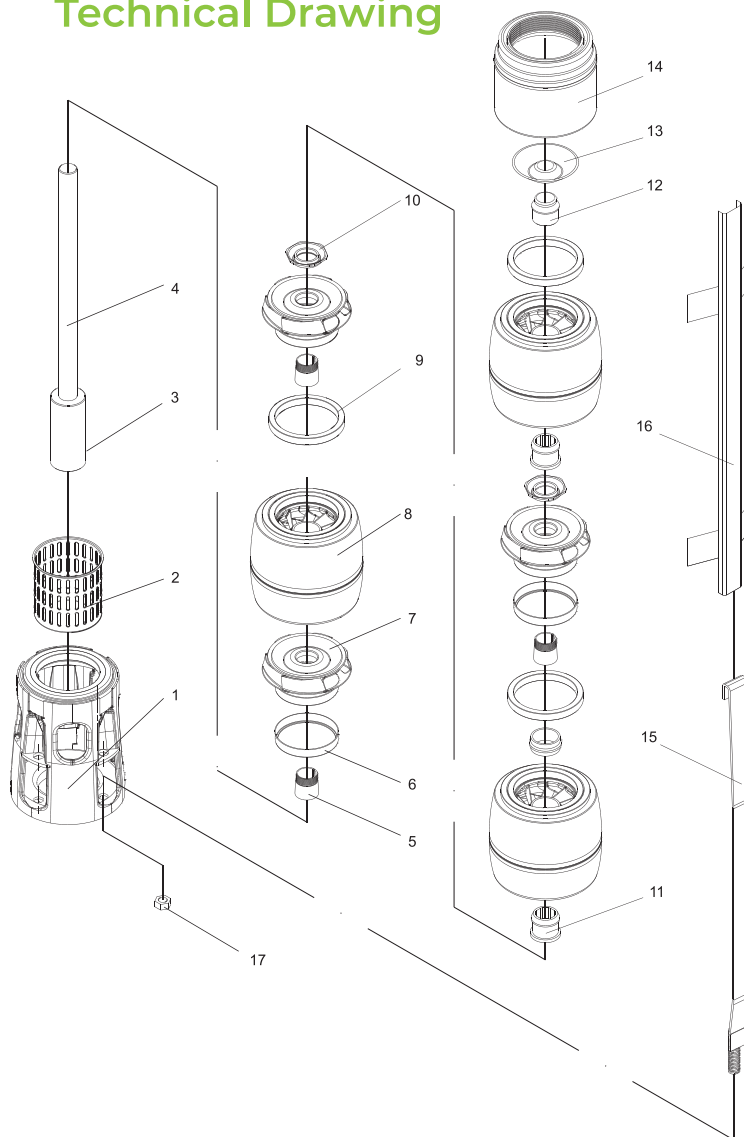
Material Data

Part List

N°	Part Name	Material
1	Suction Stage	Stainless Steel (AISI 304L)
2	Filter	Stainless Steel (AISI 304L)
3	Coupling	Stainless Steel (AISI 304L)
4	Pump Shaft	Stainless Steel (AISI 420 - 304L)
5	Impeller Lock	Stainless Steel (AISI 304L)
6	Impeller Rings	Stainless Steel (AISI 304L)
7	Impeller	Stainless Steel (AISI 304L)
8	Diffuser	Stainless Steel (AISI 304L)
9	Diffuser Ring	Rubber

N°	Part Name	Material
10	Nut For Impeller Lock	Stainless Steel (AISI 304L)
11	Shaft Bearing	Rubber
12	Shaft Stopper	Stainless Steel (AISI 304L)
13	Valve	Stainless Steel (AISI 304L)
14	Outlet	Stainless Steel (AISI 304L)
15	Strap	Stainless Steel (AISI 304L)
16	Cable Guard	Stainless Steel (AISI 304L)
17	Strap Nut	Stainless Steel (AISI 304L)

Technical Drawing



VOLC 4" **Pump Series**



STAINLESS STEEL SUBMERSIBLE

VOLC 4-12 SERIES

Stainless Steel Submersible Pumps / VOLC 4-12 Series														50 Hz
Pump Type	power		Flow									Pump Weight	Pump length	Outlet
			m³/h	0.0	5.0	8.0	10.0	12.0	14.0	16.0	18.0			
	Kw	Hp	l/s	0.00	1.39	2.22	2.78	3.33	3.89	4.44	5.00	Kg	cm	Inch
VOLC 4-12/ 04	0.75	1	Head m	28	23	20	18	16	14	11	8	5	48	2"
VOLC 4-12/ 06	1.1	1.5		41	35	31	28	25	21	17	13	6	62	
VOLC 4-12/ 08	1.5	2		55	46	41	37	33	28	22	17	8	77	
VOLC 4-12/ 12	2.2	3		83	70	61	55	49	42	34	25	11	105	
VOLC 4-12/ 16	3	4		110	93	82	74	66	56	45	34	14	133	
VOLC 4-12/ 19	4	5.5		131	111	97	88	78	67	54	40	17	155	
VOLC 4-12/ 22	4	5.5		152	128	112	101	90	77	62	46	19	176	
VOLC 4-12/ 26	5.5	7.5		180	151	133	120	107	91	73	55	22	204	
VOLC 4-12/ 30	5.5	7.5		207	174	153	138	123	105	84	63	25	233	
VOLC 4-12/ 35	7.5	10		242	203	179	161	144	123	98	74	30	268	
VOLC 4-12/ 40	7.5	10		276	232	204	184	164	140	112	84	33	304	

STAINLESS STEEL SUBMERSIBLE

VOLC 4-15 SERIES

Stainless Steel Submersible Pumps / VOLC 4-15 Series													50 Hz	
Pump Type	power		Flow								Pump Weight	Pump length	Outlet	
			m³/h	0.0	6.0	9.0	11.0	13.0	15.0	18.0	20.0			
	Kw	Hp	l/s	0.00	1.67	2.50	3.06	3.61	4.17	5.00	5.56	Kg	cm	Inch
VOLC 4-15/ 03	0.75	1	Head m	20	17	15	14	12	11	8	6	5	41	2"
VOLC 4-15/ 05	1.1	1.5		34	28	24	23	20	18	14	10	6	55	
VOLC 4-15/ 06	1.5	2		41	34	29	27	24	22	16	12	7	62	
VOLC 4-15/ 10	2.2	3		68	56	49	45	40	36	27	20	10	91	
VOLC 4-15/ 13	3	4		88	73	64	59	52	47	35	26	12	112	
VOLC 4-15/ 15	4	5.5		102	84	74	68	60	54	41	30	13	126	
VOLC 4-15/ 18	4	5.5		122	101	88	81	72	65	49	36	16	148	
VOLC 4-15/ 22	5.5	7.5		149	123	108	99	88	79	60	44	19	176	
VOLC 4-15/ 25	5.5	7.5		170	140	123	113	100	90	68	50	21	197	
VOLC 4-15/ 27	7.5	10		189	156	137	126	111	100	75	56	23	211	
VOLC 4-15/ 30	7.5	10		204	168	147	135	120	108	81	60	25	233	

VOLC 5" **Pump Series**



STAINLESS STEEL SUBMERSIBLE

VOLC 5-20 SERIES

Stainless Steel Submersible Pumps / VOLC 5-20 Series														50 Hz
Pump Type	power		Flow									Pump Weight	Pump length	Outlet
			m³/h	0.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0			
	Kw	Hp	l/s	0.00	3.89	4.44	5.00	5.56	6.11	6.67	7.22	Kg	cm	Inch
VOLC 5-20/ 01	0.75	1	Head m	9	8	7	7	6	6	6	5	6	33	2½"
VOLC 5-20/ 02	1.5	2		19	14	12	10	9	8	7	6	8	42	
VOLC 5-20/ 03	2.2	3		30	22	20	18	15	13	11	9	10	51	
VOLC 5-20/ 04	3	4		41	31	30	28	26	22	16	14	13	60	
VOLC 5-20/ 05	4	5.5		52	40	39	37	34	30	24	20	15	69	
VOLC 5-20/ 06	4	5.5		63	49	47	45	41	37	31	26	17	79	
VOLC 5-20/ 07	5.5	7.5		74	58	54	52	47	43	37	31	20	88	
VOLC 5-20/ 08	5.5	7.5		85	67	63	59	55	49	42	35	22	97	
VOLC 5-20/ 09	7.5	10		96	75	71	67	62	55	48	39	24	106	
VOLC 5-20/ 10	7.5	10		105	84	79	75	69	62	54	44	27	115	
VOLC 5-20/ 11	7.5	10		116	92	88	82	76	68	60	49	29	124	
VOLC 5-20/ 12	9.2	12.5		127	101	96	89	83	74	65	53	31	133	
VOLC 5-20/ 13	9.2	12.5		137	109	103	97	90	81	70	57	33	142	
VOLC 5-20/ 14	9.2	12.5		148	117	110	104	97	87	76	61	36	151	
VOLC 5-20/ 15	11	15		157	126	118	111	104	93	81	66	38	160	
VOLC 5-20/ 16	11	15		168	134	126	118	111	99	86	70	40	170	
VOLC 5-20/ 17	11	15		177	143	134	126	118	105	91	75	43	179	
VOLC 5-20/ 18	13	17.5		188	151	142	133	124	111	97	79	45	188	
VOLC 5-20/ 19	13	17.5		198	159	150	141	131	117	102	83	47	197	
VOLC 5-20/ 20	13	17.5		210	167	158	149	138	124	107	88	50	206	
VOLC 5-20/ 21	15	20		221	175	166	157	145	130	112	92	52	215	
VOLC 5-20/ 22	15	20		232	183	175	164	152	137	118	97	54	224	
VOLC 5-20/ 23	18.5	25		242	192	182	171	159	143	123	101	56	233	
VOLC 5-20/ 24	18.5	25		253	201	190	178	166	149	128	105	59	242	
VOLC 5-20/ 25	18.5	25		263	209	197	186	173	156	134	109	61	251	
VOLC 5-20/ 26	22	30		274	217	205	167	180	161	139	114	71	261	
VOLC 5-20/ 27	22	30		284	226	213	202	186	167	145	119	74	270	
VOLC 5-20/ 28	22	30		295	234	221	209	193	174	150	123	76	279	
VOLC 5-20/ 29	22	30		308	242	229	216	200	180	156	127	78	288	
VOLC 5-20/ 30	26	35		316	251	237	224	207	185	161	132	81	297	

STAINLESS STEEL SUBMERSIBLE

VOLC 5-30 SERIES

Stainless Steel Submersible Pumps / VOLC 5-30 Series												50 Hz	
Pump Type	power		Flow								Pump Weight	Pump length	Outlet
			m³/h	0.0	16.0	20.0	26.0	30.0	34.0	36.0			
	Kw	Hp	l/s	0.00	4.44	5.56	7.22	8.33	9.44	10.00	Kg	cm	Inch
VOLC 5-30/ 01	1.1	1.5	Head m	12	11	10	8	6	5	4	6	33	2½"
VOLC 5-30/ 02	2.2	3		24	21	20	17	13	10	8	8	42	
VOLC 5-30/ 03	2.2	3		37	32	30	26	20	15	13	10	51	
VOLC 5-30/ 04	3	4		49	42	40	35	27	20	17	13	60	
VOLC 5-30/ 05	4	5.5		62	53	50	44	34	25	22	15	69	
VOLC 5-30/ 06	5.5	7.5		74	63	60	53	41	30	26	17	79	
VOLC 5-30/ 07	5.5	7.5		87	74	70	62	48	35	31	20	88	
VOLC 5-30/ 08	7.5	10		99	84	80	71	55	40	35	22	97	
VOLC 5-30/ 09	7.5	10		112	95	90	80	62	45	40	24	106	
VOLC 5-30/ 10	9.2	12.5		124	105	100	89	69	50	44	27	115	
VOLC 5-30/ 11	9.2	12.5		137	116	110	98	76	55	49	29	124	
VOLC 5-30/ 12	11	15		149	126	120	107	83	60	53	31	133	
VOLC 5-30/ 13	11	15		162	137	130	116	90	65	58	33	142	
VOLC 5-30/ 14	11	15		174	147	140	125	97	70	62	36	151	
VOLC 5-30/ 15	13	17.5		187	158	150	134	104	75	67	38	160	
VOLC 5-30/ 16	13	17.5		199	168	160	143	111	80	71	40	170	
VOLC 5-30/ 17	15	20		212	179	170	152	118	85	76	43	179	
VOLC 5-30/ 18	15	20		224	189	180	161	125	90	80	45	188	
VOLC 5-30/ 19	18.5	25		237	200	190	170	132	95	85	47	197	
VOLC 5-30/ 20	18.5	25		249	210	200	179	139	100	89	50	206	
VOLC 5-30/ 21	18.5	25		262	221	210	188	146	105	94	52	215	
VOLC 5-30/ 22	22	30		274	231	220	197	153	110	98	54	224	
VOLC 5-30/ 23	22	30		287	242	230	206	160	115	103	56	233	
VOLC 5-30/ 24	26	35		299	252	240	215	167	120	107	59	242	

STAINLESS STEEL SUBMERSIBLE

VOLC 5-42 SERIES

Stainless Steel Submersible Pumps / VOLC 5-42 Series													50 Hz
Pump Type	power		Flow								Pump Weight	Pump length	Outlet
			m³/h	0.0	30.0	34.0	38.0	42.0	45.0	50.0			
	Kw	Hp	l/s	0.00	8.33	9.44	10.56	11.67	12.50	13.89	Kg	cm	Inch
VOLC 5-42/ 01	1.1	1.5	Head m	18	12	12	10	10	9	3	6	33	2½"
VOLC 5-42/ 02	2.2	3		28	20	18	16	14	12	6	8	42	
VOLC 5-42/ 03	4	5.5		38	30	24	22	18	15	8	10	51	
VOLC 5-42/ 04	4	5.5		48	39	31	28	22	18	11	13	60	
VOLC 5-42/ 05	5.5	7.5		57	49	37	34	27	21	14	15	69	
VOLC 5-42/ 06	7.5	10		67	58	44	40	31	24	16	17	79	
VOLC 5-42/ 07	7.5	10		77	68	50	46	35	27	19	20	88	
VOLC 5-42/ 08	9.2	12.5		87	78	56	52	39	30	22	22	97	
VOLC 5-42/ 09	11	15		97	87	63	58	43	33	24	24	106	
VOLC 5-42/ 10	11	15		106	97	69	64	48	36	27	27	115	
VOLC 5-42/ 11	13	17.5		116	106	76	70	52	39	30	29	124	
VOLC 5-42/ 12	13	17.5		126	116	82	76	56	42	33	31	133	
VOLC 5-42/ 13	15	20		136	126	88	82	60	45	35	33	142	
VOLC 5-42/ 14	15	20		146	135	95	88	64	48	38	36	151	
VOLC 5-42/ 15	18.5	25		155	145	101	94	69	51	41	38	160	
VOLC 5-42/ 16	18.5	25		165	154	108	100	73	54	43	40	170	
VOLC 5-42/ 17	18.5	25		175	164	114	106	77	57	46	43	179	
VOLC 5-42/ 18	18.5	25		185	174	120	112	81	60	49	45	188	
VOLC 5-42/ 19	22	30		195	183	172	118	85	63	51	47	197	
VOLC 5-42/ 20	22	30		204	193	133	124	90	66	54	50	206	
VOLC 5-42/ 21	22	30		214	202	140	130	94	69	57	52	215	

VOLC 6" **Pump Series**

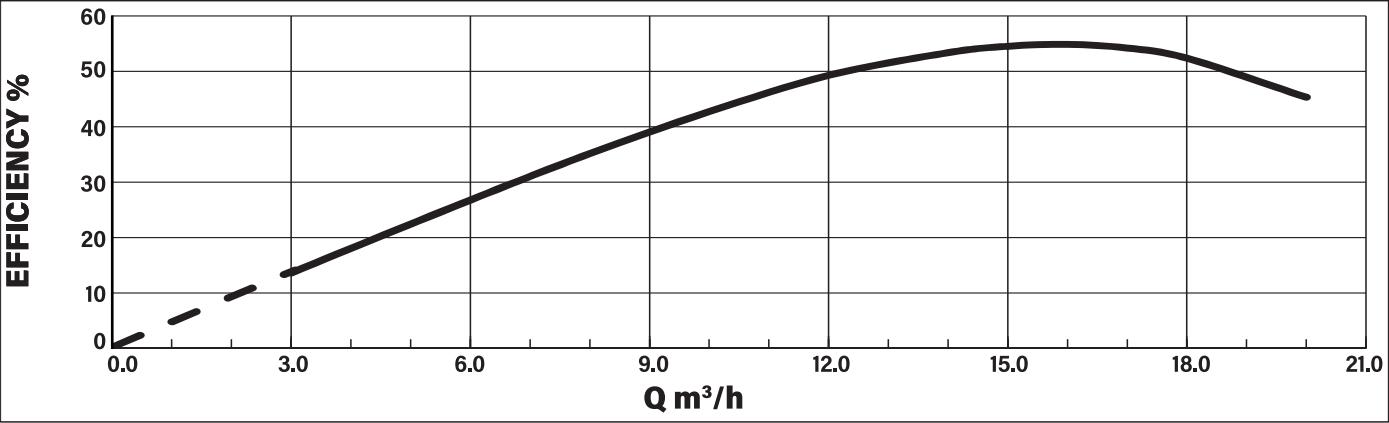
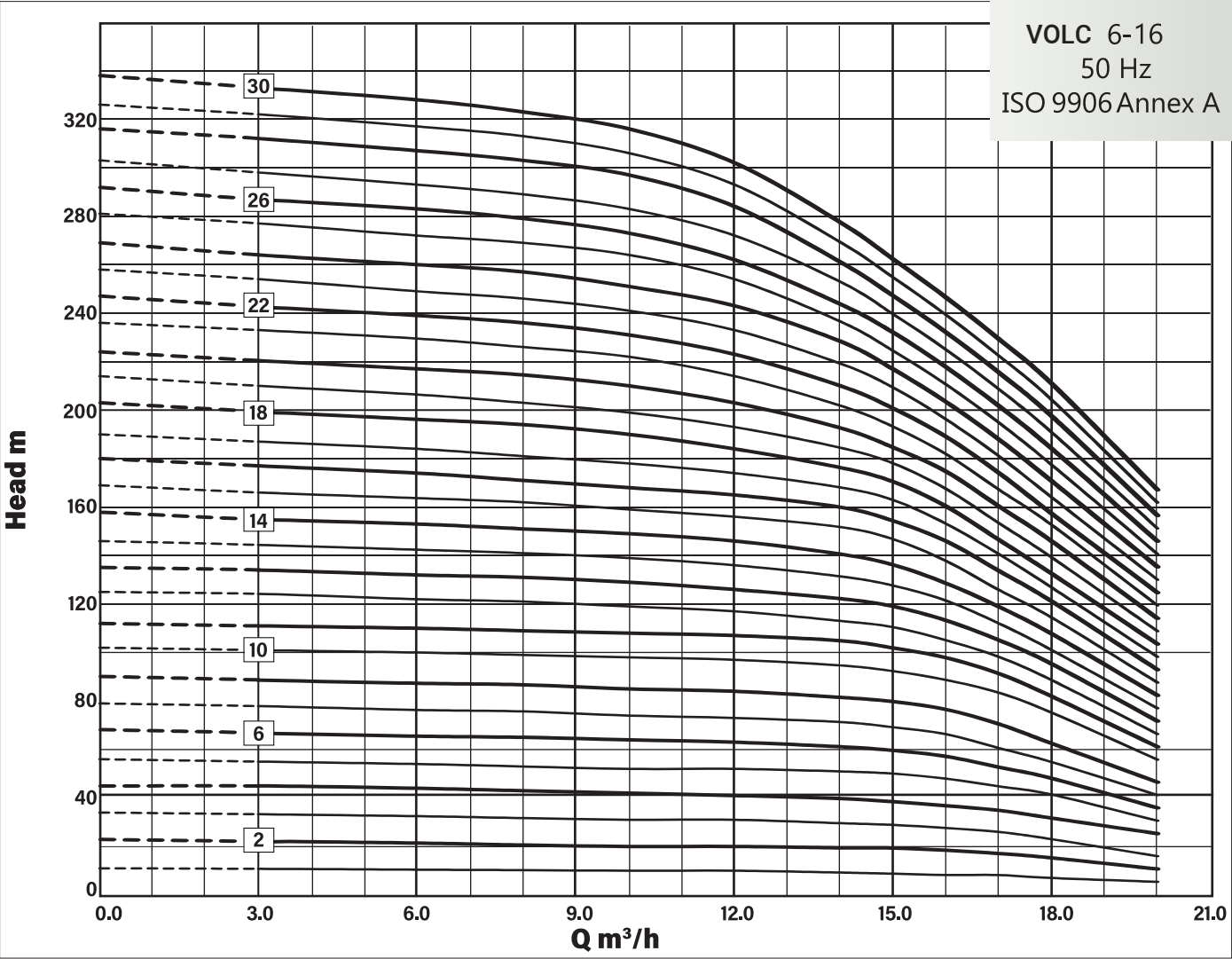


STAINLESS STEEL SUBMERSIBLE VOLC 6-16 SERIES

Stainless Steel Submersible Pumps / VOLC 6-16 Series															50 Hz
Pump Type	power		Flow										Pump Weight	Pump length	Outlet
	Kw	Hp	m³/h	0.0	10.0	12.0	14.0	15.0	16.0	17.0	18.0	20.0	Kg	cm	Inch
			l/s	0.00	2.78	3.33	3.89	4.17	4.44	4.72	5.00	5.56			
VOLC 6-16/ 01	0.55	0.75	Head m	11	10	9	8	8	7	7	6	5	5	30	2½"
VOLC 6-16/ 02	1.1	1.5		23	20	19	16	15	14	14	13	11	6	36	
VOLC 6-16/ 03	1.5	2		34	31	29	25	23	22	21	20	16	8	42	
VOLC 6-16/ 04	2.2	3		45	41	39	33	30	29	28	27	21	9	48	
VOLC 6-16/ 05	2.2	3		56	52	49	41	38	36	35	33	27	10	54	
VOLC 6-16/ 06	3	4		68	63	60	49	46	43	42	40	32	11	61	
VOLC 6-16/ 07	4	5.5		79	73	69	57	53	50	49	47	37	12	67	
VOLC 6-16/ 08	4	5.5		90	84	80	66	61	58	56	54	43	13	74	
VOLC 6-16/ 09	4	5.5		102	94	90	74	68	65	62	60	48	15	79	
VOLC 6-16/ 10	5.5	7.5		112	104	99	82	76	72	69	67	53	16	85	
VOLC 6-16/ 11	5.5	7.5		125	116	111	90	83	79	76	74	58	17	91	
VOLC 6-16/ 12	5.5	7.5		135	127	120	98	91	86	83	80	64	18	97	
VOLC 6-16/ 13	7.5	10		146	137	130	106	99	93	90	87	69	20	103	
VOLC 6-16/ 14	7.5	10		158	147	141	115	106	101	97	94	74	21	109	
VOLC 6-16/ 15	7.5	10		169	158	151	123	114	108	104	100	80	22	115	
VOLC 6-16/ 16	7.5	10		180	168	160	131	121	115	111	107	85	23	122	
VOLC 6-16/ 17	9.2	12.5		190	178	169	139	129	122	118	114	90	24	128	
VOLC 6-16/ 18	9.2	12.5		203	190	181	147	136	129	125	121	95	26	134	
VOLC 6-16/ 19	9.2	12.5		214	199	190	155	144	136	131	127	101	27	140	
VOLC 6-16/ 20	9.2	12.5		224	210	200	164	152	144	138	134	106	28	146	
VOLC 6-16/ 21	11	15		236	222	211	172	159	151	145	141	111	29	152	
VOLC 6-16/ 22	11	15		247	231	220	180	167	158	152	147	117	30	158	
VOLC 6-16/ 23	11	15		258	241	230	188	174	165	159	154	122	32	164	
VOLC 6-16/ 24	11	15		269	251	240	196	182	172	166	161	127	33	170	
VOLC 6-16/ 25	13	17.5		281	264	251	205	189	180	173	167	133	34	176	
VOLC 6-16/ 26	13	17.5		292	273	260	213	197	187	180	174	138	35	183	
VOLC 6-16/ 27	13	17.5		303	283	270	221	205	194	187	181	143	36	189	
VOLC 6-16/ 28	13	17.5		316	297	283	229	212	201	194	188	149	38	195	
VOLC 6-16/ 29	15	20		326	306	293	237	220	208	200	194	154	39	201	
VOLC 6-16/ 30	15	20		338	316	302	245	227	215	207	201	159	40	207	
VOLC 6-16/ 31	15	20		348	327	311	254	235	223	214	208	164	41	213	
VOLC 6-16/ 32	15	20		359	337	321	262	242	230	221	214	170	42	219	
VOLC 6-16/ 33	15	20		370	347	329	270	250	237	228	221	175	44	225	
VOLC 6-16/ 34	18.5	25		381	357	337	278	258	244	235	228	180	45	231	
VOLC 6-16/ 35	18.5	25		392	367	345	286	265	251	242	234	186	46	237	
VOLC 6-16/ 36	18.5	25		403	377	353	295	273	259	249	241	191	47	244	
VOLC 6-16/ 37	22	30		414	387	361	303	280	266	256	248	196	48	250	
VOLC 6-16/ 38	22	30		425	397	369	311	288	273	263	255	202	50	256	
VOLC 6-16/ 39	22	30		436	407	377	319	295	280	269	261	207	51	262	
VOLC 6-16/ 40	22	30		447	417	385	327	303	287	276	268	212	52	268	
VOLC 6-16/ 41	22	30		458	427	393	335	311	294	283	275	217	53	274	
VOLC 6-16/ 42	22	30		469	437	401	344	318	302	290	281	223	54	280	
VOLC 6-16/ 43	26	35		480	447	409	352	326	309	297	288	228	56	286	
VOLC 6-16/ 44	26	35		491	457	417	360	333	316	304	295	233	57	292	
VOLC 6-16/ 45	26	35		502	467	425	368	341	323	311	301	239	58	298	
VOLC 6-16/ 46	26	35		513	477	433	376	348	330	318	308	244	59	305	
VOLC 6-16/ 47	26	35		524	487	441	385	356	338	325	315	249	60	311	
VOLC 6-16/ 48	26	35		535	497	449	393	364	345	332	322	255	62	317	
VOLC 6-16/ 49	26	35		546	507	457	401	371	352	338	328	260	63	323	
VOLC 6-16/ 50	26	35		557	517	465	409	379	359	345	335	265	64	329	
VOLC 6-16/ 51	30	40		568	527	473	417	386	366	352	342	270	65	335	
VOLC 6-16/ 52	30	40		579	537	481	425	394	373	359	348	276	66	341	
VOLC 6-16/ 53	30	40		590	547	489	434	401	381	366	355	281	67	347	
VOLC 6-16/ 54	30	40		601	557	497	442	409	388	373	362	286	69	353	
VOLC 6-16/ 55	30	40		612	567	505	450	417	395	380	368	292	70	359	
VOLC 6-16/ 56	37	50		623	577	513	458	424	402	387	375	297	71	365	
VOLC 6-16/ 57	37	50		634	587	521	466	432	409	394	382	302	72	372	
VOLC 6-16/ 58	37	50		645	597	529	475	439	417	401	389	308	73	378	
VOLC 6-16/ 59	37	50		656	607	537	483	447	424	407	395	313	75	384	
VOLC 6-16/ 60	37	50		667	617	545	491	454	431	414	402	318	76	390	

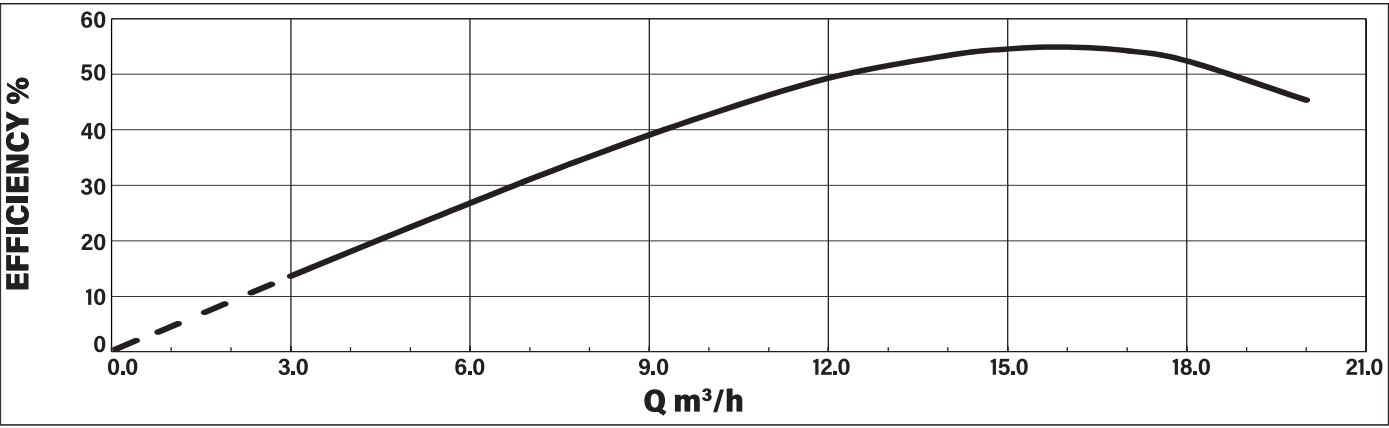
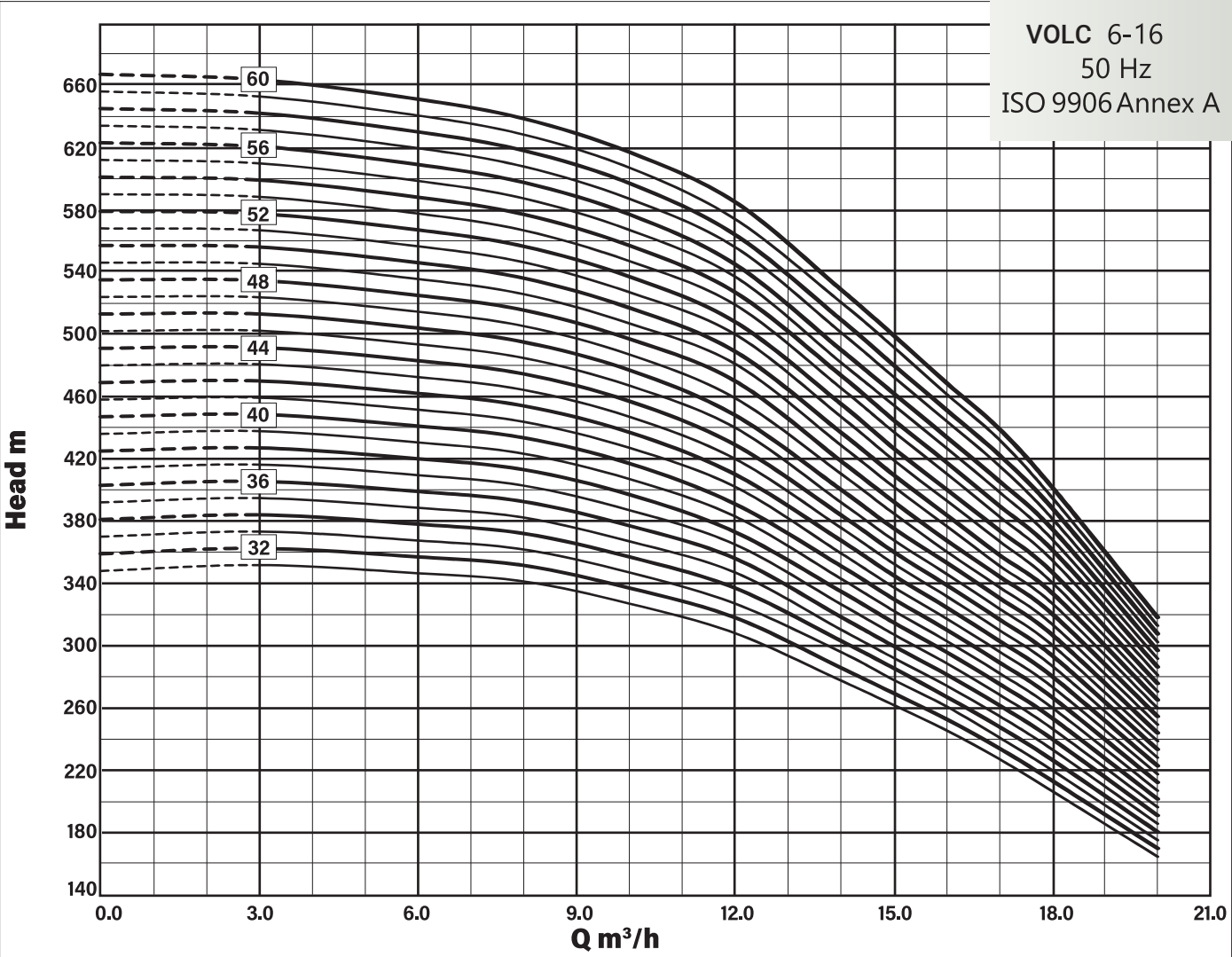
STAINLESS STEEL SUBMERSIBLE

VOLC 6-16 SERIES



STAINLESS STEEL SUBMERSIBLE

VOLC 6-16 SERIES



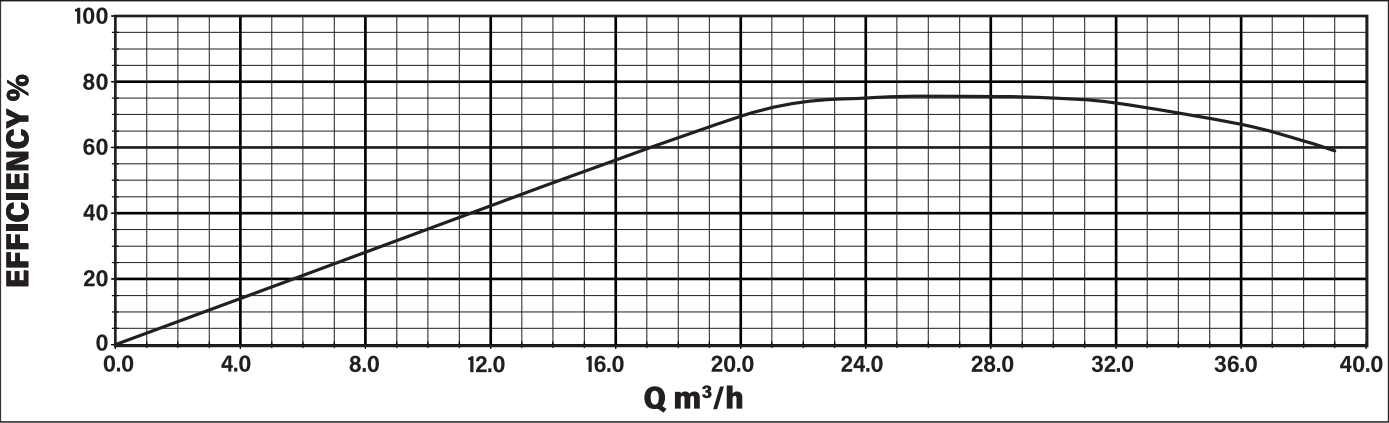
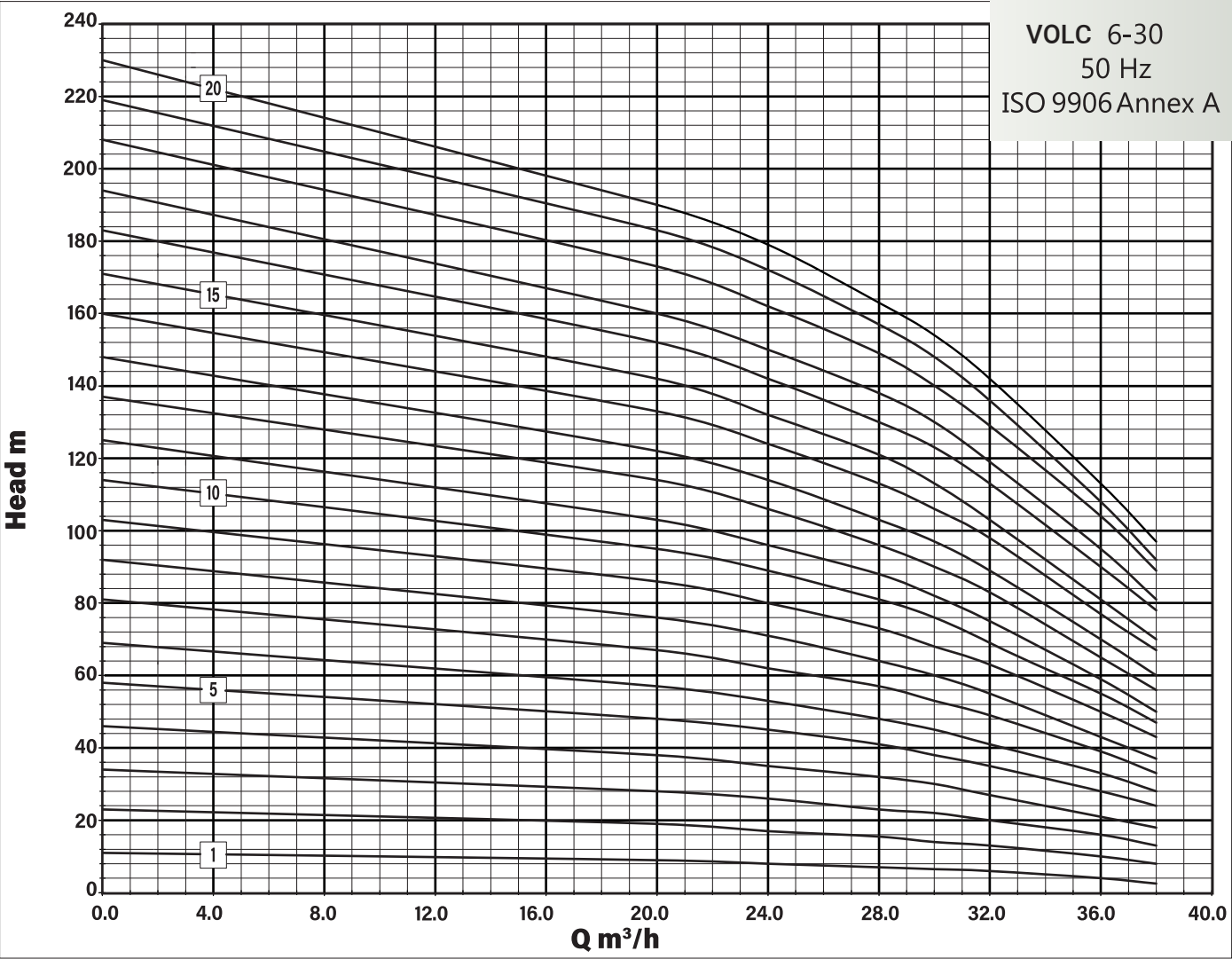
STAINLESS STEEL SUBMERSIBLE

VOLC 6-30 SERIES

Stainless Steel Submersible Pumps / VOLC 6-30 Series														50 Hz
Pump Type	power		Flow									Pump Weight	Pump length	Outlet
			m³/h	0.0	20.0	24.0	28.0	30.0	32.0	36.0	38.0			Inch
	Kw	Hp	l/s	0.00	5.56	6.67	7.78	8.33	8.89	10.00	10.56	Kg	cm	
VOLC 6-30/ 01	0.75	1	Head m	11	9	8	7	7	6	4	3	6	34	3"
VOLC 6-30/ 02	2.2	3		23	19	17	16	14	13	10	8	8	43	
VOLC 6-30/ 03	2.2	3		34	28	26	23	22	20	16	13	10	53	
VOLC 6-30/ 04	3	4		46	38	35	32	30	27	21	18	13	62	
VOLC 6-30/ 05	4	5.5		58	48	45	41	38	35	28	24	15	72	
VOLC 6-30/ 06	5.5	7.5		69	57	53	48	45	41	33	28	17	82	
VOLC 6-30/ 07	5.5	7.5		81	67	62	57	53	49	39	33	20	91	
VOLC 6-30/ 08	7.5	10		92	76	71	64	60	55	43	37	22	101	
VOLC 6-30/ 09	7.5	10		103	86	80	73	68	63	50	43	24	110	
VOLC 6-30/ 10	9.2	12.5		114	95	89	81	76	69	55	47	27	120	
VOLC 6-30/ 11	9.2	12.5		125	103	96	88	82	75	59	50	29	130	
VOLC 6-30/ 12	9.2	12.5		137	114	106	96	90	83	65	56	31	139	
VOLC 6-30/ 13	11	15		148	122	114	103	97	89	70	60	33	149	
VOLC 6-30/ 14	11	15		160	133	124	113	106	98	77	67	36	158	
VOLC 6-30/ 15	13	17.5		171	142	132	121	113	103	81	70	38	168	
VOLC 6-30/ 16	13	17.5		183	152	142	130	123	113	90	78	40	178	
VOLC 6-30/ 17	15	20		194	160	150	138	130	119	95	81	43	187	
VOLC 6-30/ 18	15	20		208	173	162	149	140	129	104	89	45	197	
VOLC 6-30/ 19	15	20		219	183	172	157	148	136	108	92	47	206	
VOLC 6-30/ 20	18.5	25		230	190	179	163	154	142	113	97	50	216	
VOLC 6-30/ 21	18.5	25		240	200	188	171	161	149	119	100	52	226	
VOLC 6-30/ 22	22	30		251	210	199	180	170	158	126	107	54	235	
VOLC 6-30/ 23	22	30		263	220	207	188	177	164	130	110	56	245	
VOLC 6-30/ 24	22	30		274	229	214	195	183	169	133	114	59	254	
VOLC 6-30/ 25	26	35		285	238	222	202	189	175	139	119	61	297	
VOLC 6-30/ 26	26	35		297	247	230	209	197	181	143	122	71	306	
VOLC 6-30/ 27	26	35		310	259	241	220	206	190	153	130	74	316	
VOLC 6-30/ 28	26	35		320	268	250	228	215	199	158	135	76	325	
VOLC 6-30/ 29	26	35		331	276	259	235	221	204	161	139	78	335	
VOLC 6-30/ 30	30	40		341	285	267	243	228	209	167	142	81	345	
VOLC 6-30/ 31	30	40		353	292	274	250	235	217	171	147	83	354	
VOLC 6-30/ 32	30	40		368	308	288	262	246	227	180	155	85	364	
VOLC 6-30/ 33	37	50		378	317	296	269	252	231	185	159	88	373	
VOLC 6-30/ 34	37	50		389	324	303	276	259	239	190	162	90	383	
VOLC 6-30/ 35	37	50		400	332	310	282	265	245	195	168	92	393	
VOLC 6-30/ 39	37	50		447	374	350	320	300	275	221	191	101	431	
VOLC 6-30/ 43	45	60		490	410	384	350	329	302	240	208	111	469	
VOLC 6-30/ 46	45	60		531	450	423	390	369	340	275	239	117	498	
VOLC 6-30/ 49	45	60		564	479	450	412	390	360	290	253	124	527	

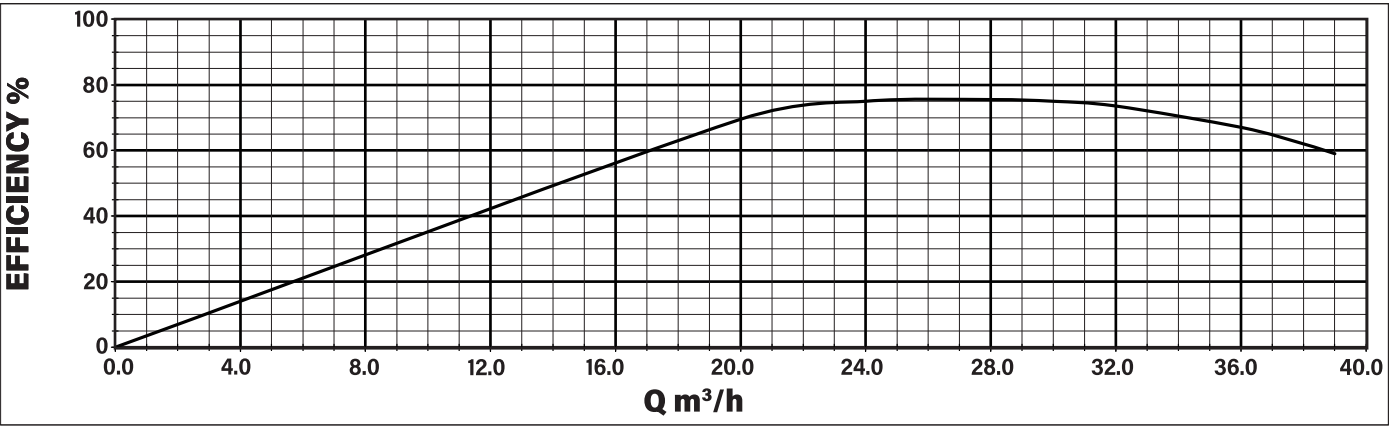
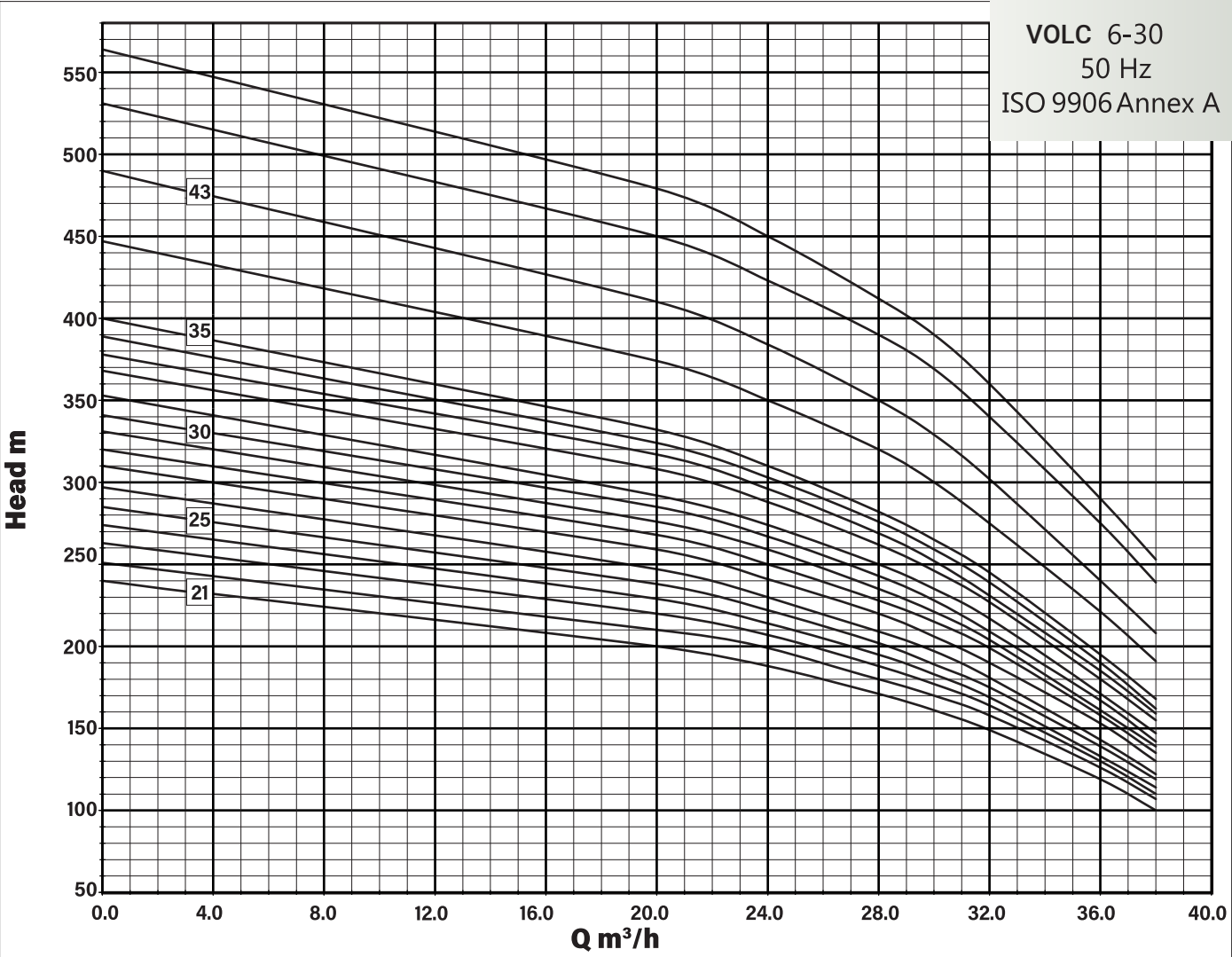
STAINLESS STEEL SUBMERSIBLE

VOLC 6-30 SERIES



STAINLESS STEEL SUBMERSIBLE

VOLC 6-30 SERIES



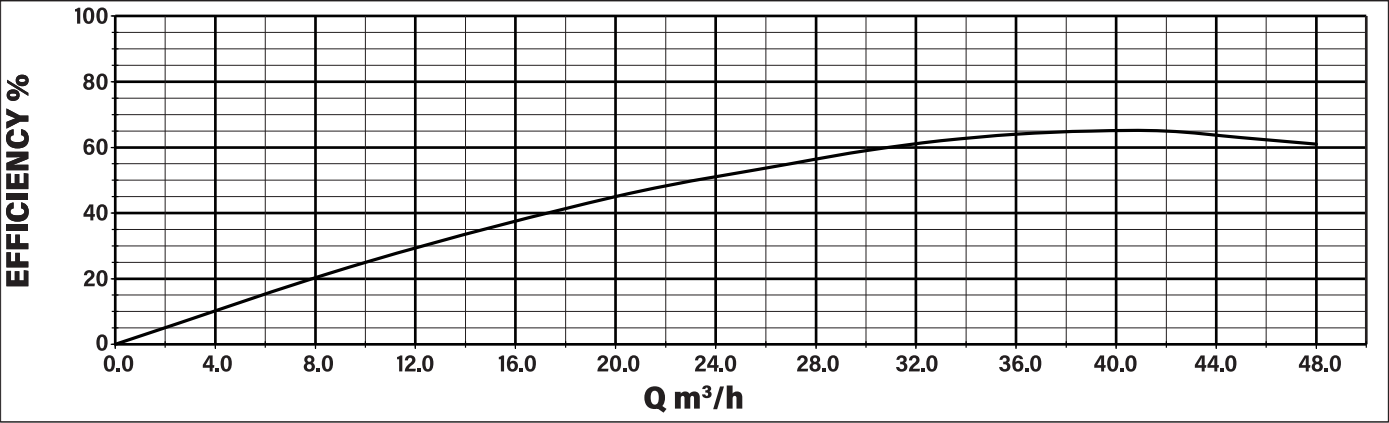
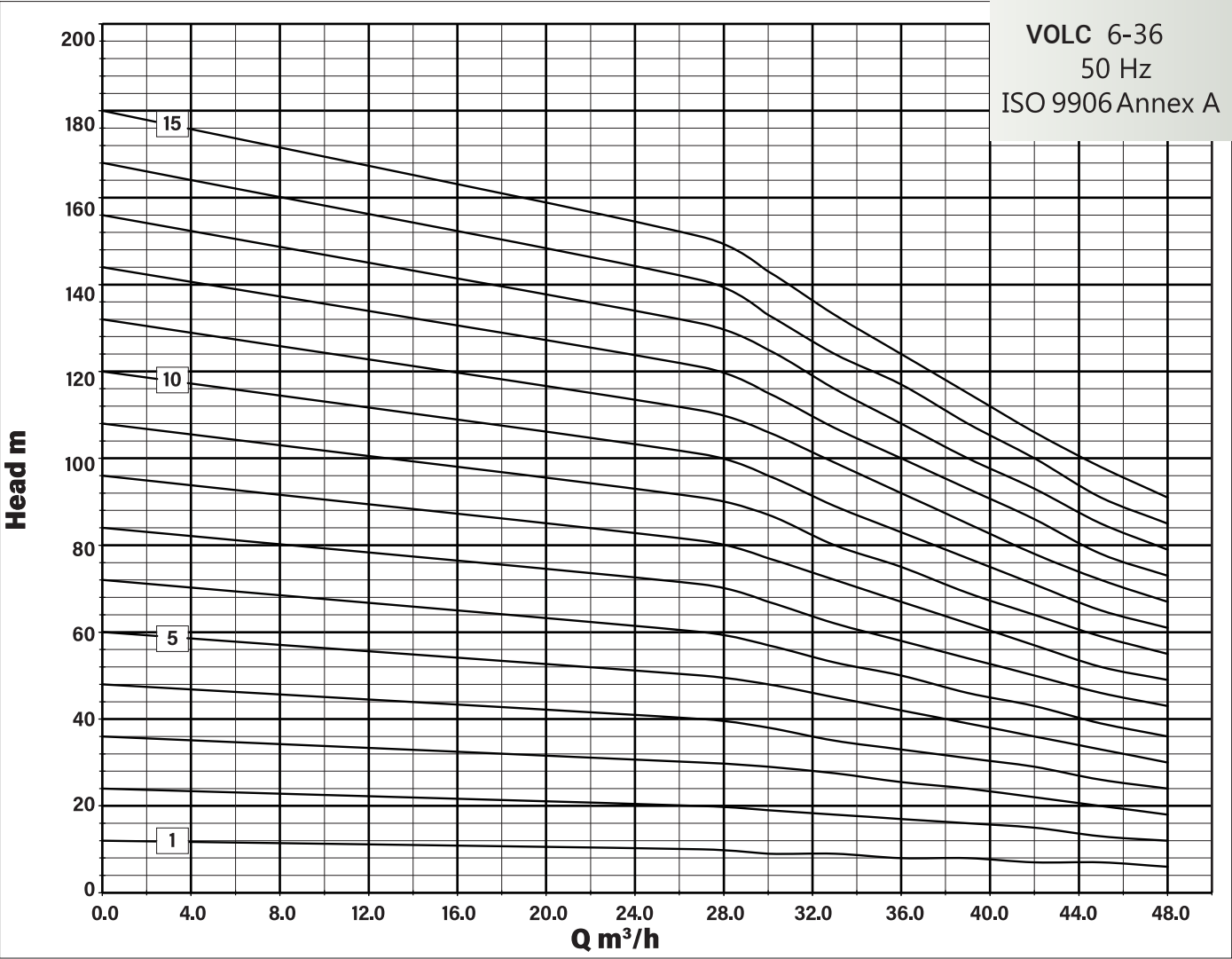
STAINLESS STEEL SUBMERSIBLE

VOLC 6-36 SERIES

Stainless Steel Submersible Pumps /VOLC6-36 Series															50 Hz
Pump Type	power		Flow										Pump Weight	Pump length	Outlet
			m³/h	0.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0			
	Kw	Hp	l/s	0.00	7.50	8.33	9.17	10.00	10.83	11.67	12.50	13.33	Kg	cm	Inch
SEP 6-36/ 01	1.1	1.5	Head m	12	10	9	9	8	8	7	7	6	6	35	3"
SEP 6-36/ 02	2.2	3		24	20	19	18	17	16	15	13	12	8	47	
SEP 6-36/ 03	3	4		36	30	29	28	26	24	22	20	18	10	58	
SEP 6-36/ 04	4	5.5		48	40	38	35	33	31	29	26	24	13	71	
SEP 6-36/ 05	5.5	7.5		60	50	48	45	42	39	36	33	30	15	81	
SEP 6-36/ 06	5.5	7.5		72	60	57	53	50	46	43	39	36	17	93	
SEP 6-36/ 07	7.5	10		84	71	67	62	58	54	50	46	43	20	104	
SEP 6-36/ 08	7.5	10		96	81	77	72	67	62	57	52	49	22	116	
SEP 6-36/ 09	9.2	12.5		108	91	87	80	75	69	64	59	55	25	127	
SEP 6-36/ 10	11	15		120	101	96	89	83	77	71	65	61	27	138	
SEP 6-36/ 11	11	15		132	111	106	99	92	85	78	72	67	30	150	
SEP 6-36/ 12	13	17.5		144	121	115	107	100	93	86	78	73	32	162	
SEP 6-36/ 13	13	17.5		156	131	125	116	108	100	93	85	79	35	173	
SEP 6-36/ 14	15	20		168	141	133	124	117	108	100	91	85	37	184	
SEP 6-36/ 15	15	20		180	151	143	133	124	115	106	98	91	39	196	
SEP 6-36/ 16	18.5	25		192	161	153	142	132	123	114	104	97	42	207	
SEP 6-36/ 17	18.5	25		204	171	161	151	142	132	122	112	103	44	219	
SEP 6-36/ 18	22	30		216	181	171	159	149	139	129	118	109	47	230	
SEP 6-36/ 19	22	30		228	191	181	169	158	147	136	124	115	49	241	
SEP 6-36/ 20	22	30		240	201	191	179	166	155	143	130	121	52	253	
SEP 6-36/ 21	26	35		252	211	201	189	176	163	150	137	127	54	264	
SEP 6-36/ 22	26	35		264	222	212	198	185	171	158	143	134	57	276	
SEP 6-36/ 23	26	35		273	232	220	205	192	178	165	150	140	59	287	
SEP 6-36/ 24	30	40		288	242	229	213	201	186	172	156	146	70	322	
SEP 6-36/ 25	30	40		300	252	238	222	209	194	180	163	152	72	333	
SEP 6-36/ 26	30	40		312	262	249	232	217	201	186	169	158	74	345	
SEP 6-36/ 27	37	50		324	272	258	240	225	209	194	176	164	77	356	
SEP 6-36/ 28	37	50		336	282	268	250	234	218	201	182	170	79	368	
SEP 6-36/ 29	37	50		348	292	278	260	242	225	208	189	176	82	379	
SEP 6-36/ 30	37	50		360	302	290	270	253	235	216	195	182	84	390	

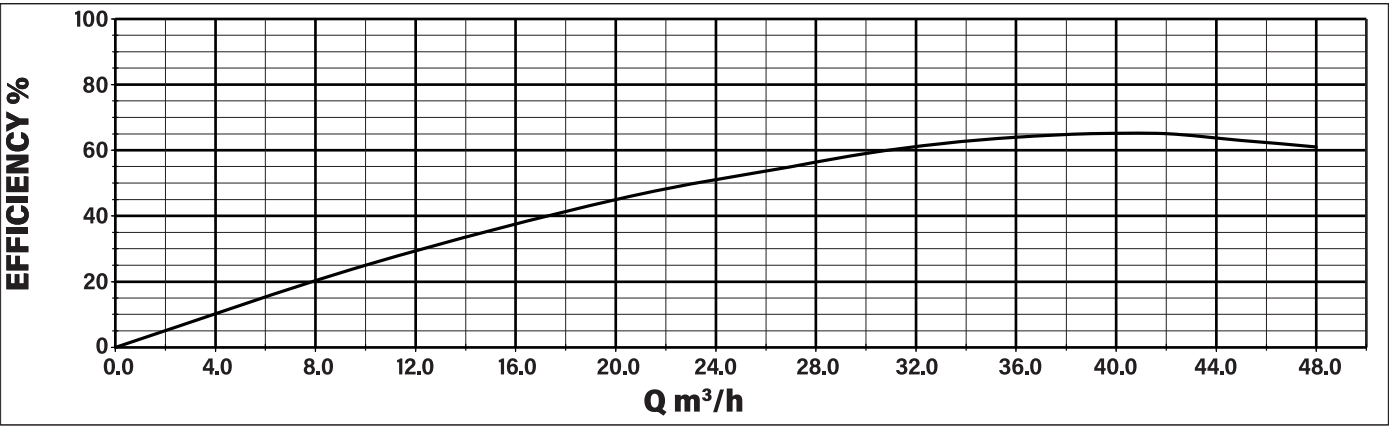
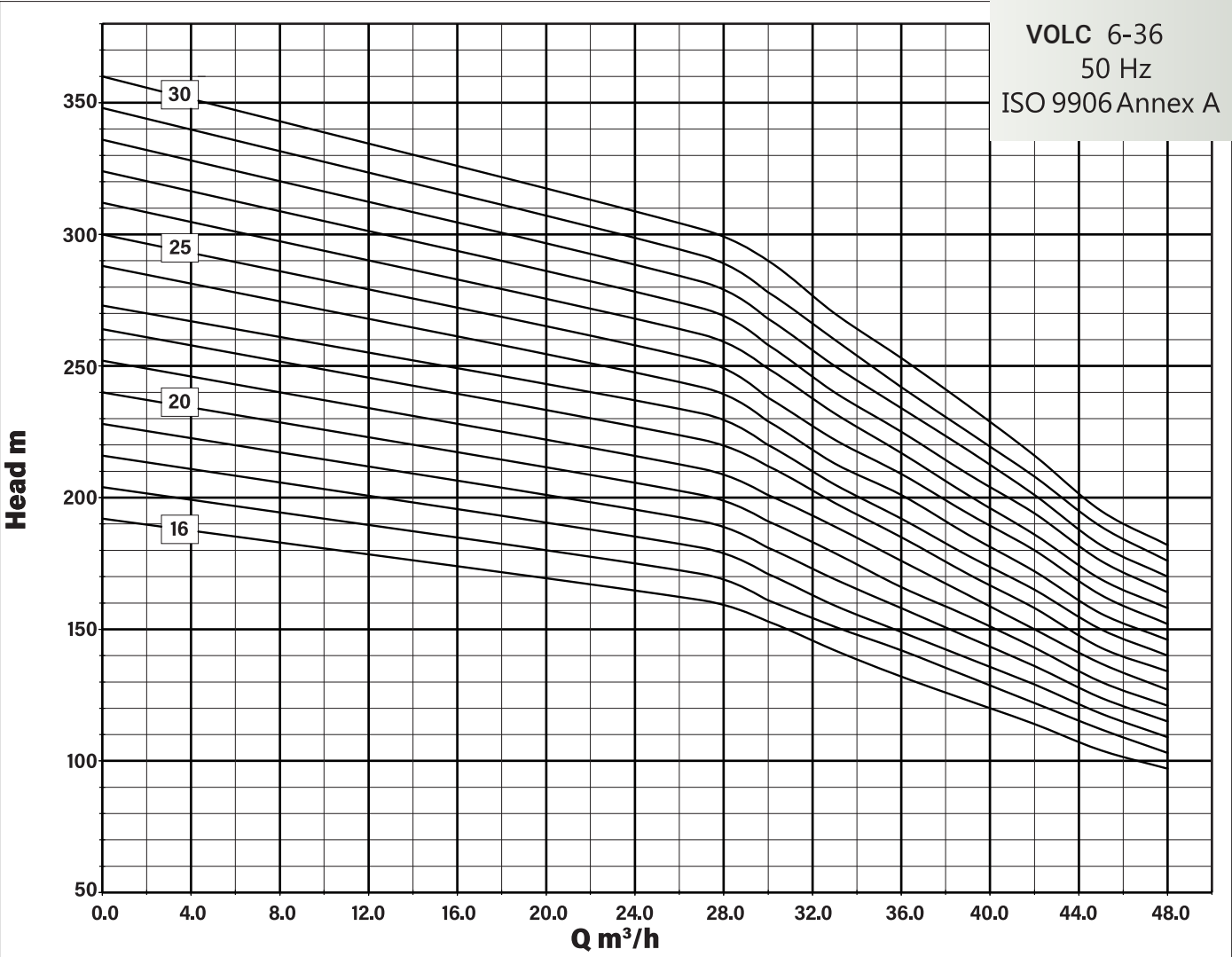
STAINLESS STEEL SUBMERSIBLE

VOLC 6-36 SERIES



STAINLESS STEEL SUBMERSIBLE

VOLC 6-36 SERIES

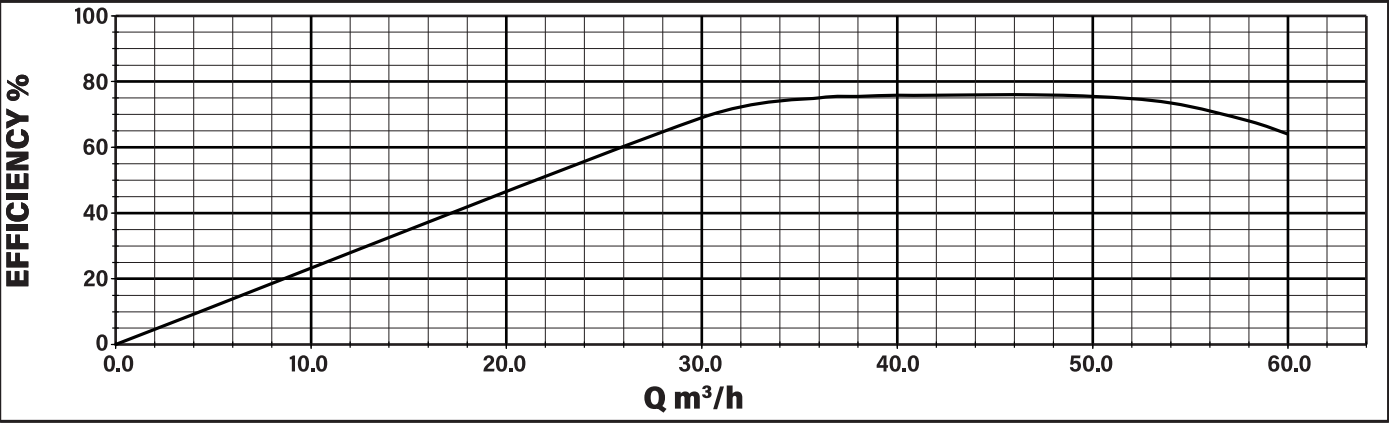
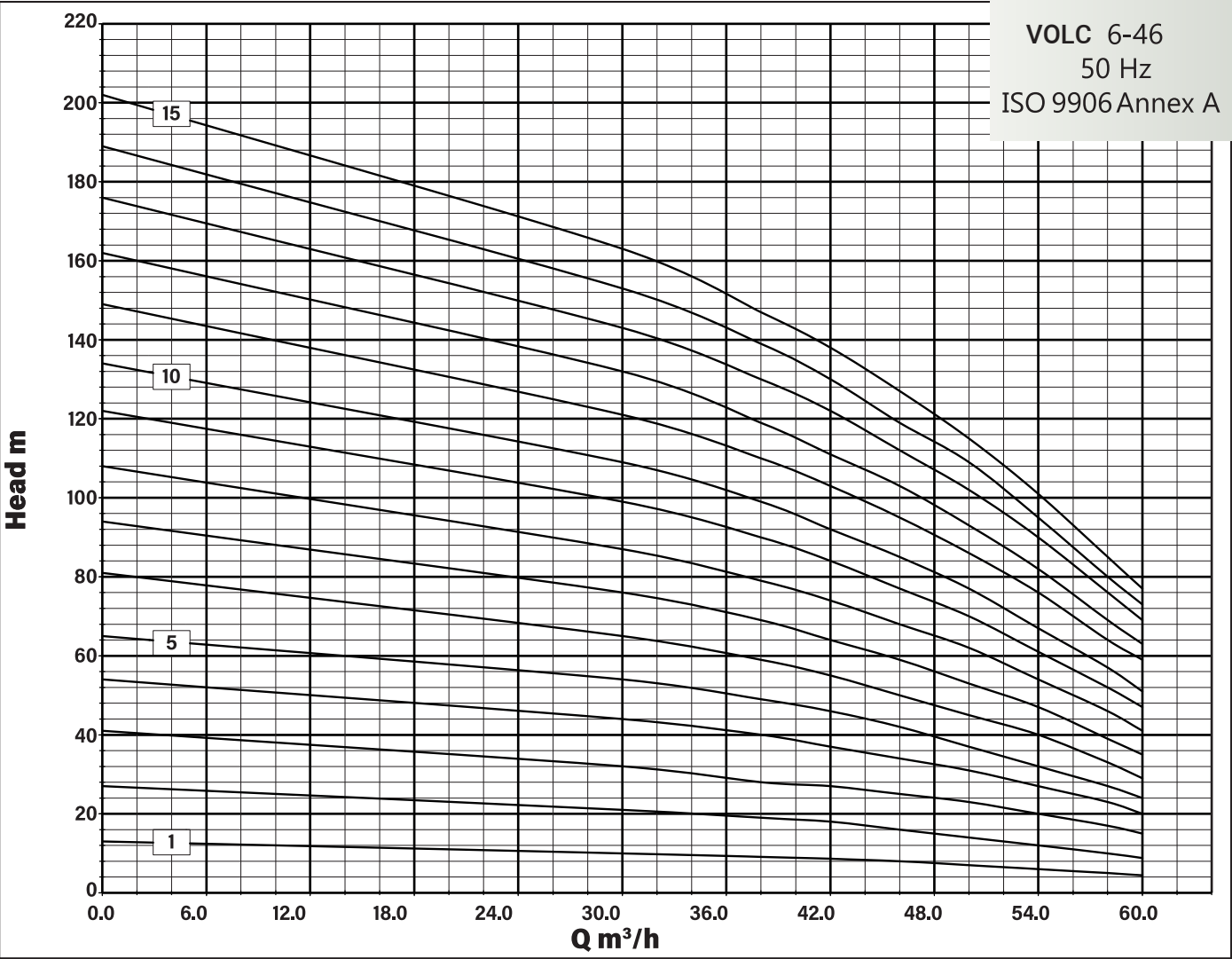


STAINLESS STEEL SUBMERSIBLE VOLC 6-46 SERIES

Stainless Steel Submersible Pumps /VOLC6-46 Series															50 Hz
Pump Type	power		Flow										Pump Weight	Pump length	Outlet
			m³/h	0.0	30.0	38.0	42.0	46.0	50.0	54.0	58.0	60.0			
	Kw	Hp	l/s	0.00	8.33	10.56	11.67	12.78	13.89	15.00	16.11	16.67	Kg	cm	Inch
SEP 6-46/ 01	1.1	1.5	Head m	13	10	9	9	8	7	6	5	4	6	35	3"
SEP 6-46/ 02	2.2	3		27	21	19	18	16	14	12	10	9	8	47	
SEP 6-46/ 03	4	5.5		41	32	28	27	25	23	20	17	15	10	58	
SEP 6-46/ 04	5.5	7.5		54	44	40	37	34	31	27	23	20	13	70	
SEP 6-46/ 05	5.5	7.5		65	54	49	46	42	37	32	27	24	15	81	
SEP 6-46/ 06	7.5	10		81	65	59	55	50	45	40	33	29	17	93	
SEP 6-46/ 07	9.2	12.5		94	76	69	64	59	53	47	39	35	20	104	
SEP 6-46/ 08	9.2	12.5		108	87	79	74	68	62	54	46	41	22	116	
SEP 6-46/ 09	11	15		122	99	90	84	77	70	61	52	47	25	127	
SEP 6-46/ 10	13	17.5		134	109	99	92	85	77	67	57	51	27	138	
SEP 6-46/ 11	13	17.5		149	121	110	103	95	86	76	64	59	30	150	
SEP 6-46/ 12	18.5	25		162	132	119	111	103	93	82	69	63	32	161	
SEP 6-46/ 13	18.5	25		176	143	130	122	112	102	90	76	69	35	173	
SEP 6-46/ 14	18.5	25		189	153	139	130	119	109	95	80	73	37	184	
SEP 6-46/ 15	22	30		202	163	147	138	127	115	101	85	77	39	196	4"
SEP 6-46/ 16	22	30		216	176	159	149	138	124	110	93	84	42	207	
SEP 6-46/ 17	26	35		230	186	169	158	145	132	115	98	89	44	219	
SEP 6-46/ 18	26	35		245	199	180	169	156	142	125	106	98	47	230	
SEP 6-46/ 19	26	35		258	210	190	178	164	149	131	110	100	49	241	
SEP 6-46/ 20	30	40		270	219	199	186	172	155	136	115	104	52	253	
SEP 6-46/ 21	30	40		285	234	212	199	184	167	148	126	114	54	264	
SEP 6-46/ 22	37	50		293	244	222	208	193	175	155	131	119	57	276	
SEP 6-46/ 23	37	50		311	255	232	217	200	183	160	135	124	59	287	
SEP 6-46/ 24	37	50		324	265	240	225	209	189	166	140	128	70	322	
SEP 6-46/ 26	37	50		356	295	269	253	235	213	189	163	149	74	345	
SEP 6-46/ 28	45	60		384	316	289	272	253	229	203	174	159	79	368	
SEP 6-46/ 30	45	60		409	337	308	289	268	243	216	185	169	84	390	
SEP 6-46/ 33	45	60		452	374	343	321	298	273	240	206	189	92	425	
SEP 6-46/ 35	52	70		479	395	362	340	314	287	254	218	199	96	448	
SEP 6-46/ 37	52	70		508	421	385	361	335	305	272	233	214	101	471	

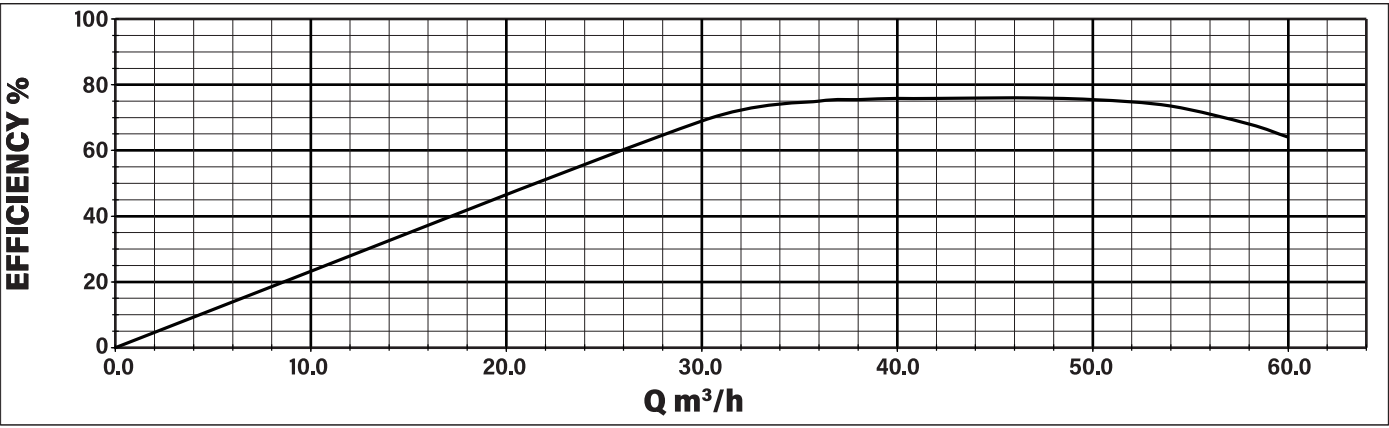
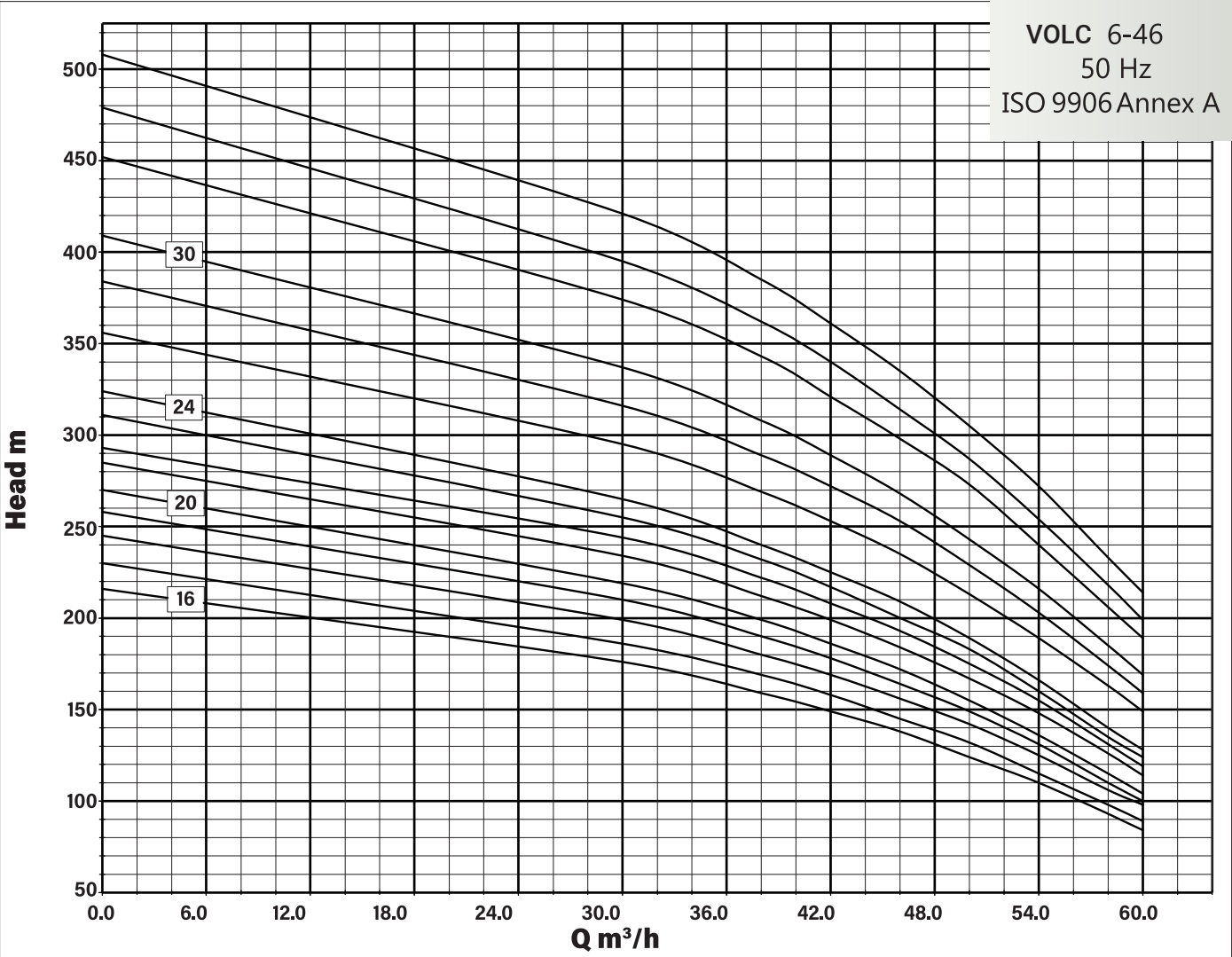
STAINLESS STEEL SUBMERSIBLE

VOLC 6-46 SERIES



STAINLESS STEEL SUBMERSIBLE

VOLC 6-46 SERIES

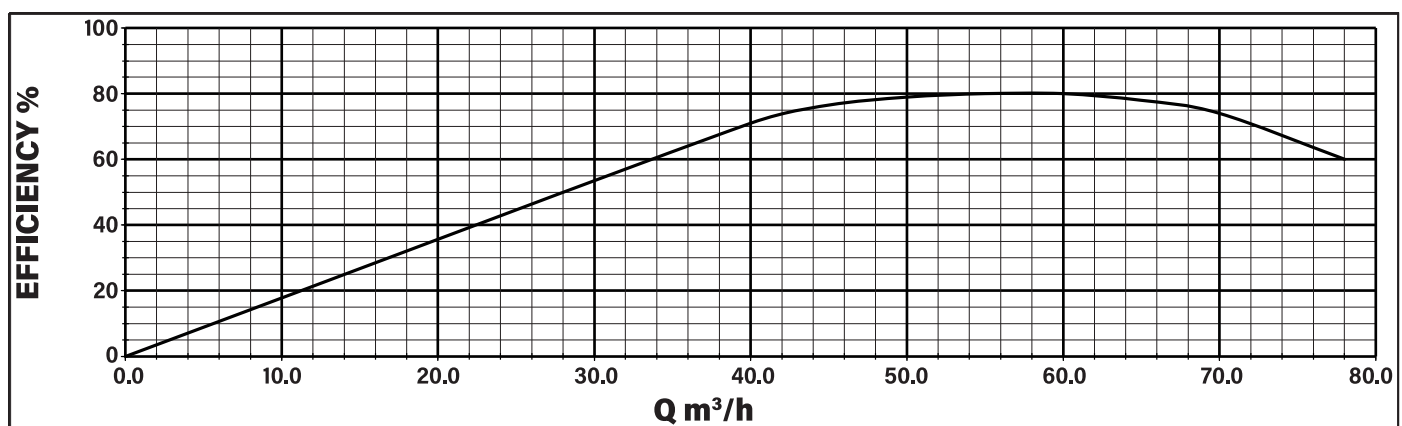
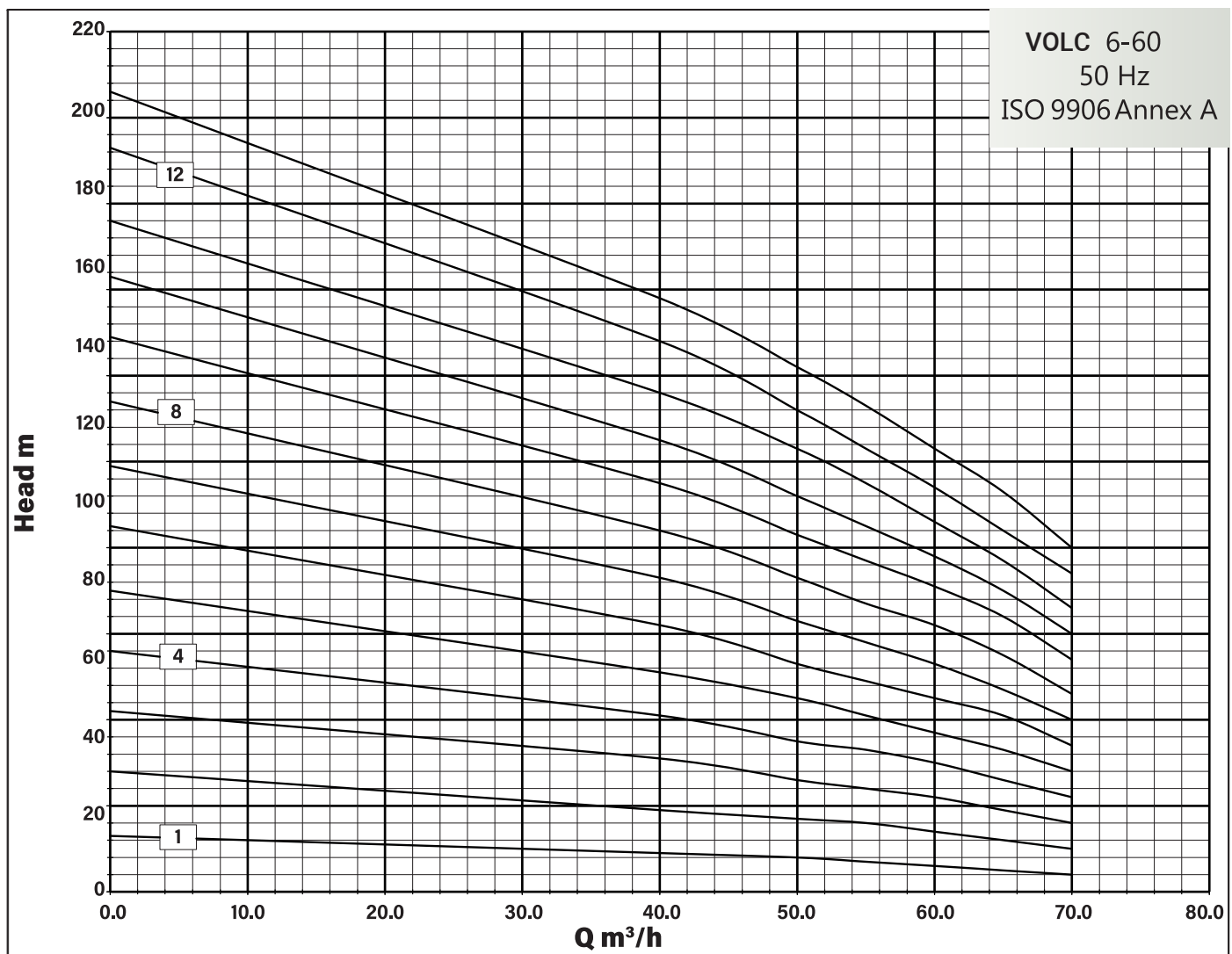


STAINLESS STEEL SUBMERSIBLE VOLC 6-60 SERIES

Stainless Steel Submersible Pumps /VOLC6-60 Series												50 Hz	
Pump Type	power		Flow								Pump Weight	Pump length	Outlet
			m³/h	0.0	40.0	50.0	55.0	60.0	65.0	70.0			
	Kw	Hp	l/s	0.00	11.11	13.89	15.28	16.67	18.06	19.44	Kg	cm	Inch
SEP 6-60/ 01	1.5	2	Head m	13	9	8	7	6	5	4	6	35	4"
SEP 6-60/ 02	3	4		28	19	17	16	14	12	10	8	47	
SEP 6-60/ 03	4	5.5		42	31	26	24	22	19	16	10	58	
SEP 6-60/ 04	5.5	7.5		56	41	35	33	30	26	22	13	70	
SEP 6-60/ 05	7.5	10		70	51	45	41	37	33	28	15	81	
SEP 6-60/ 06	9.2	12.5		85	62	53	49	45	41	34	17	93	
SEP 6-60/ 07	9.2	12.5		99	73	63	58	53	47	40	20	104	
SEP 6-60/ 08	11	15		114	84	73	67	62	55	46	22	116	
SEP 6-60/ 09	13	17.5		129	95	83	77	71	64	54	25	127	
SEP 6-60/ 10	15	20		143	105	92	85	78	70	60	27	138	
SEP 6-60/ 11	18.5	25		156	116	103	95	86	77	66	30	150	
SEP 6-60/ 12	18.5	25		173	128	112	103	94	84	74	32	161	
SEP 6-60/ 13	22	30		186	138	122	113	103	93	80	35	173	
SEP 6-60/ 14	22	30		200	148	130	120	110	98	85	37	184	
SEP 6-60/ 15	26	35		214	158	139	128	116	104	90	39	196	
SEP 6-60/ 16	26	35		230	170	148	137	125	112	96	42	207	
SEP 6-60/ 17	30	40		244	180	158	146	134	120	103	44	219	
SEP 6-60/ 18	30	40		260	194	169	156	144	128	111	47	230	
SEP 6-60/ 19	37	50		274	203	178	165	150	135	119	49	241	
SEP 6-60/ 20	37	50		286	213	187	173	158	143	124	52	253	
SEP 6-60/ 21	37	50		300	223	196	181	165	150	130	54	264	
SEP 6-60/ 22	37	50		323	243	213	197	180	163	142	57	276	
SEP 6-60/ 24	45	60		350	263	233	216	197	178	154	70	322	
SEP 6-60/ 26	45	60		382	288	253	234	215	194	170	74	345	
SEP 6-60/ 28	52	70		410	307	270	250	230	207	180	79	368	
SEP 6-60/ 30	52	70		438	328	290	268	245	221	191	84	390	

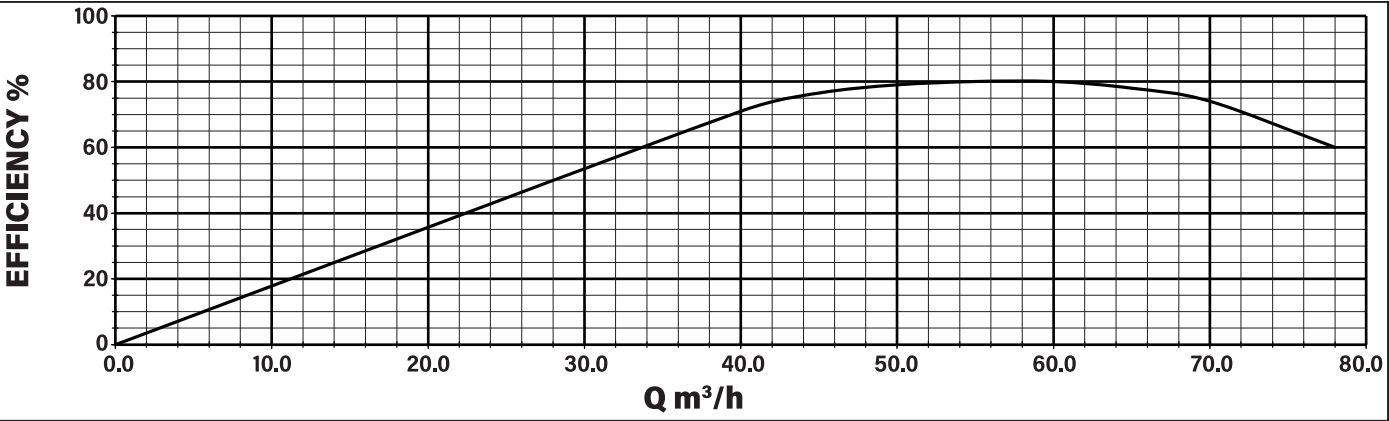
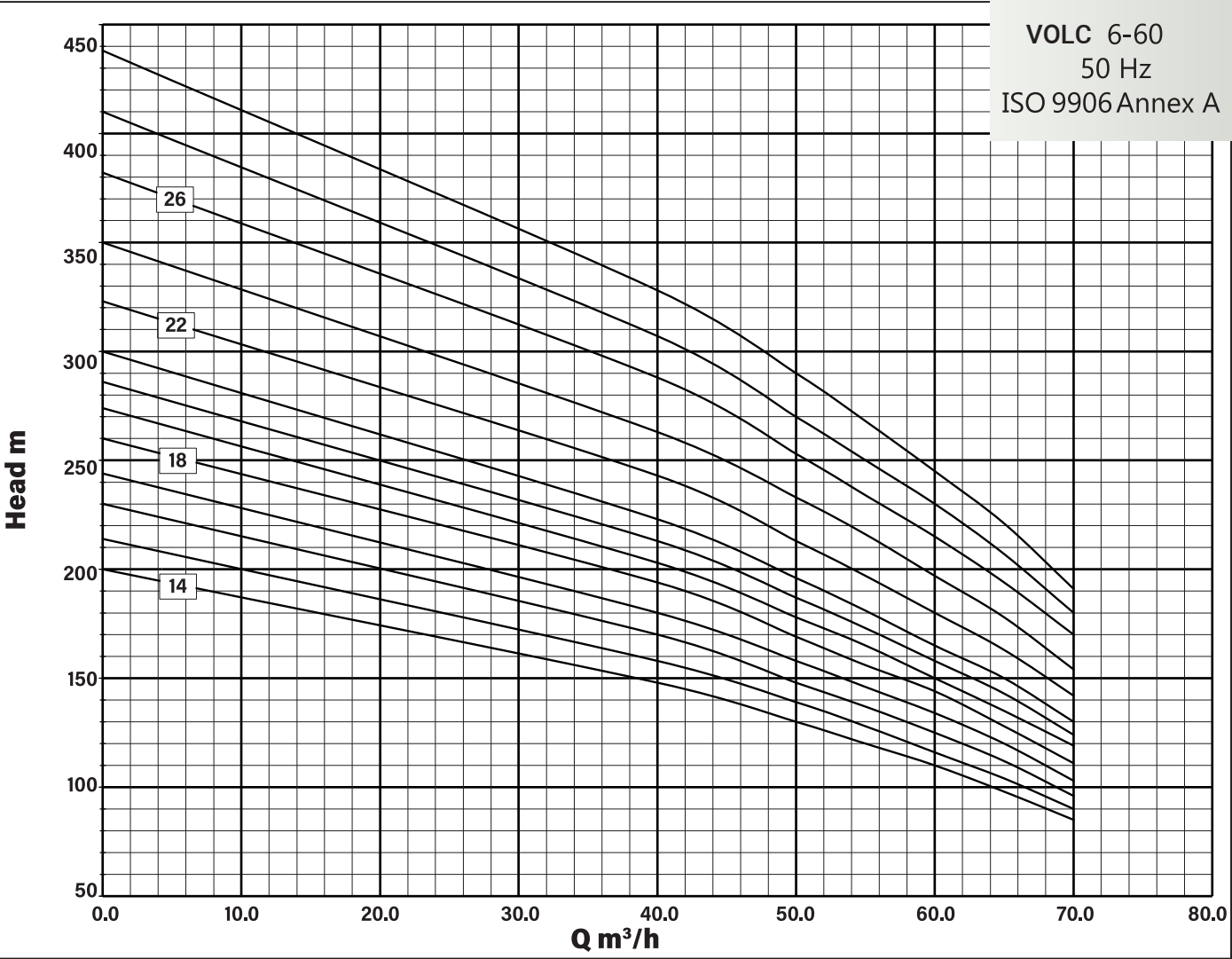
STAINLESS STEEL SUBMERSIBLE

SEP 6-60 SERIES



STAINLESS STEEL SUBMERSIBLE

VOLC 6-60 SERIES

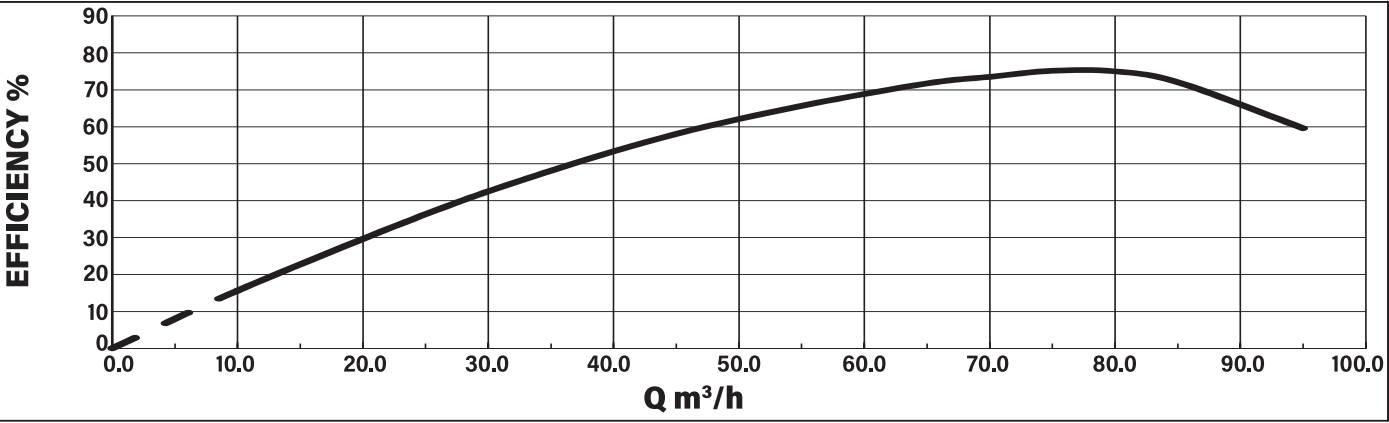
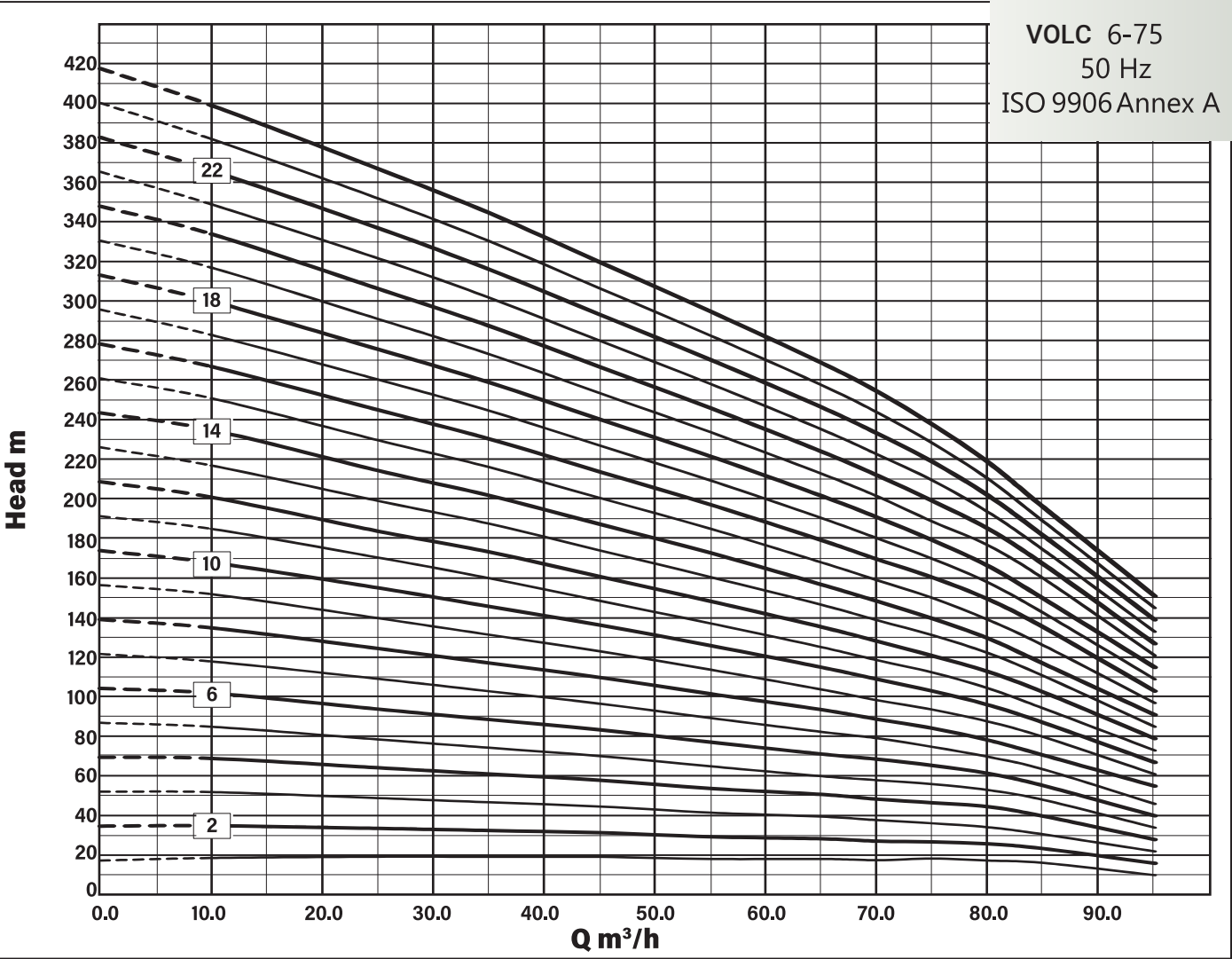


STAINLESS STEEL SUBMERSIBLE VOLC 6-75 SERIES

Stainless Steel Submersible Pumps / VOLC 6-36 Series															50 Hz
Pump Type	power		Flow										Pump Weight	Pump length	Outlet
	Kw	Hp	m ³ /h	0.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	Kg	cm	Inch
VOLC 6-36/ 01	1.1	1.5	Head m	12	10	9	9	8	8	7	7	6	6	35	3"
VOLC 6-36/ 02	2.2	3		24	20	19	18	17	16	15	13	12	8	47	
VOLC 6-36/ 03	3	4		36	30	29	28	26	24	22	20	18	10	58	
VOLC 6-36/ 04	4	5.5		48	40	38	35	33	31	29	26	24	13	71	
VOLC 6-36/ 05	5.5	7.5		60	50	48	45	42	39	36	33	30	15	81	
VOLC 6-36/ 06	5.5	7.5		72	60	57	53	50	46	43	39	36	17	93	
VOLC 6-36/ 07	7.5	10		84	71	67	62	58	54	50	46	43	20	104	
VOLC 6-36/ 08	7.5	10		96	81	77	72	67	62	57	52	49	22	116	
VOLC 6-36/ 09	9.2	12.5		108	91	87	80	75	69	64	59	55	25	127	
VOLC 6-36/ 10	11	15		120	101	96	89	83	77	71	65	61	27	138	
VOLC 6-36/ 11	11	15		132	111	106	99	92	85	78	72	67	30	150	
VOLC 6-36/ 12	13	17.5		144	121	115	107	100	93	86	78	73	32	162	
VOLC 6-36/ 13	13	17.5		156	131	125	116	108	100	93	85	79	35	173	
VOLC 6-36/ 14	15	20		168	141	133	124	117	108	100	91	85	37	184	
VOLC 6-36/ 15	15	20		180	151	143	133	124	115	106	98	91	39	196	
VOLC 6-36/ 16	18.5	25		192	161	153	142	132	123	114	104	97	42	207	
VOLC 6-36/ 17	18.5	25		204	171	161	151	142	132	122	112	103	44	219	
VOLC 6-36/ 18	22	30		216	181	171	159	149	139	129	118	109	47	230	
VOLC 6-36/ 19	22	30		228	191	181	169	158	147	136	124	115	49	241	
VOLC 6-36/ 20	22	30		240	201	191	179	166	155	143	130	121	52	253	
VOLC 6-36/ 21	26	35		252	211	201	189	176	163	150	137	127	54	264	
VOLC 6-36/ 22	26	35		264	222	212	198	185	171	158	143	134	57	276	
VOLC 6-36/ 23	26	35		273	232	220	205	192	178	165	150	140	59	287	
VOLC 6-36/ 24	30	40		288	242	229	213	201	186	172	156	146	70	322	
VOLC 6-36/ 25	30	40		300	252	238	222	209	194	180	163	152	72	333	
VOLC 6-36/ 26	30	40		312	262	249	232	217	201	186	169	158	74	345	
VOLC 6-36/ 27	37	50		324	272	258	240	225	209	194	176	164	77	356	
VOLC 6-36/ 28	37	50		336	282	268	250	234	218	201	182	170	79	368	
VOLC 6-36/ 29	37	50		348	292	278	260	242	225	208	189	176	82	379	
VOLC 6-36/ 30	37	50		360	302	290	270	253	235	216	195	182	84	390	

STAINLESS STEEL SUBMERSIBLE

VOLC 6-75 SERIES



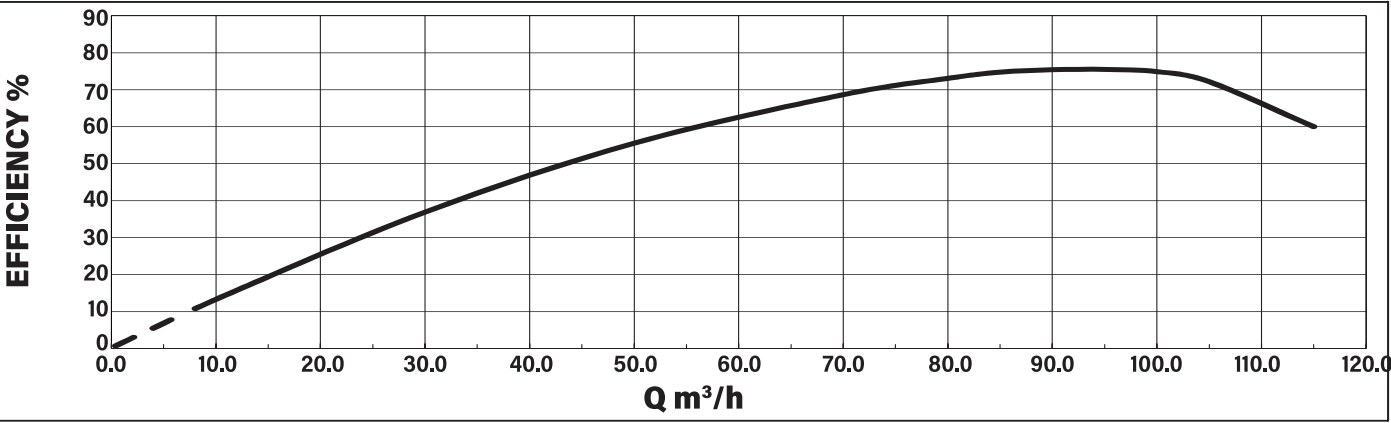
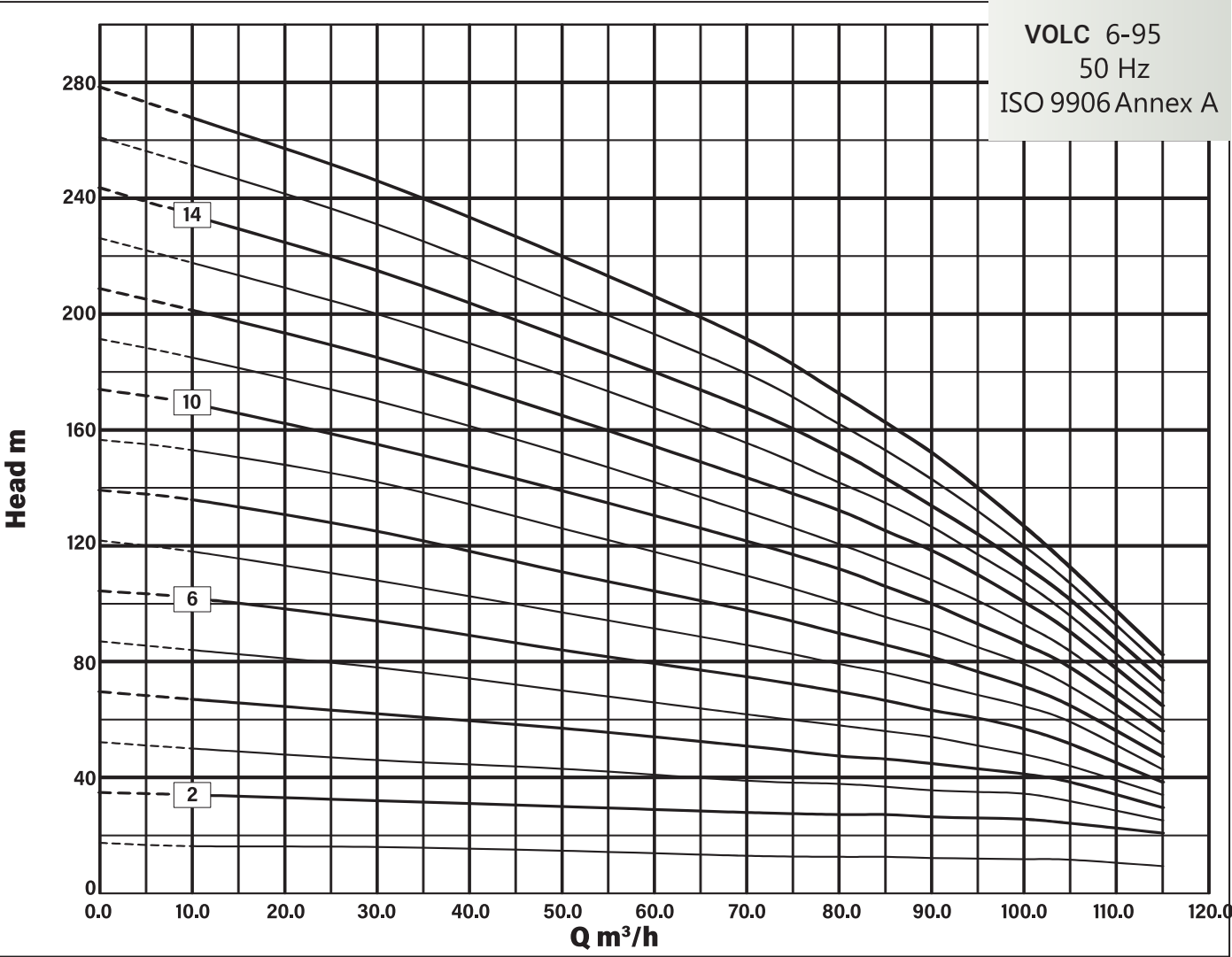
STAINLESS STEEL SUBMERSIBLE

VOLC 6-95 SERIES

Stainless Steel Submersible Pumps / VOLC 6-95 Series													50 Hz	
Pump Type	power		Flow									Pump Weight	Pump length	Outlet
			m³/h	0.0	80.0	85.0	90.0	95.0	100.0	105.0	115.0			
	Kw	Hp	l/s	0.00	22.22	23.61	25.00	26.39	27.78	29.17	31.94	Kg	cm	Inch
VOLC 6-95/ 01	3	4	Head m	17	11	10	9	8	7	6	4	11	44	4"
VOLC 6-95/ 02	5.5	7.5		35	21	20	18	16	14	11	9	14	58	
VOLC 6-95/ 03	9.2	12.5		52	32	30	28	24	20	17	13	17	72	
VOLC 6-95/ 04	11	15		70	42	40	37	32	27	23	18	20	86	
VOLC 6-95/ 05	13	17.5		87	53	50	46	41	34	29	22	23	100	
VOLC 6-95/ 06	18.5	25		104	64	60	55	48	41	35	26	26	114	
VOLC 6-95/ 07	22	30		122	74	70	64	56	48	40	31	29	128	
VOLC 6-95/ 08	26	35		139	85	80	74	64	54	45	35	32	142	
VOLC 6-95/ 09	30	40		157	95	90	83	72	61	50	40	34	156	
VOLC 6-95/ 10	37	50		180	106	100	92	80	68	56	44	38	170	
VOLC 6-95/ 11	37	50		191	117	110	101	88	75	62	48	41	184	
VOLC 6-95/ 12	45	60		209	127	120	110	96	82	67	53	44	198	
VOLC 6-95/ 13	45	60		226	138	130	120	104	88	73	57	47	213	
VOLC 6-95/ 14	45	60		244	148	140	129	112	95	78	62	50	227	
VOLC 6-95/ 15	45	60		261	159	150	138	120	102	84	66	53	241	
VOLC 6-95/ 16	52	70		278	170	160	147	129	109	90	70	59	255	

STAINLESS STEEL SUBMERSIBLE

VOLC 6-95 SERIES



VOLC 7"

Pump Series



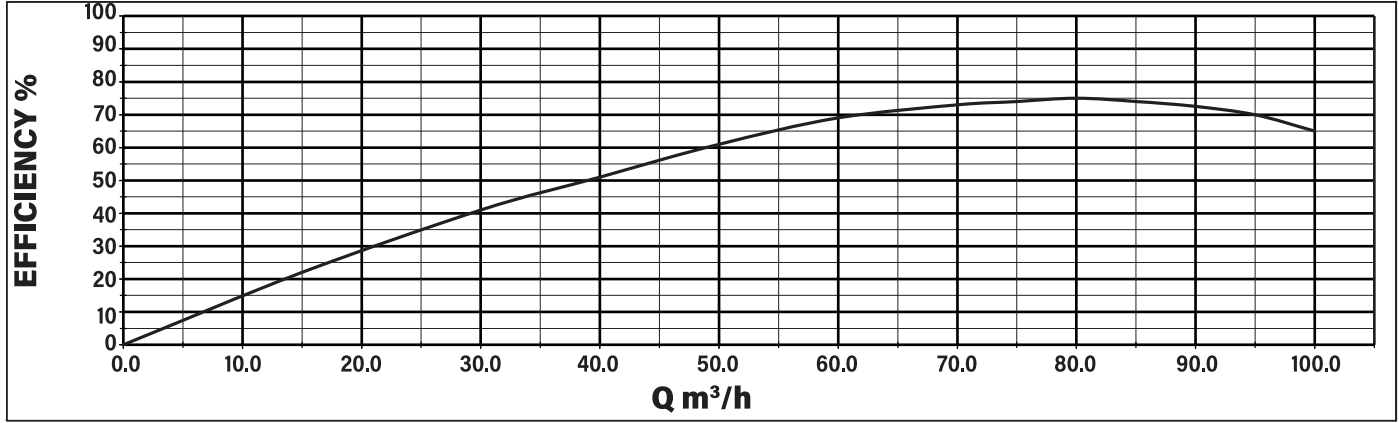
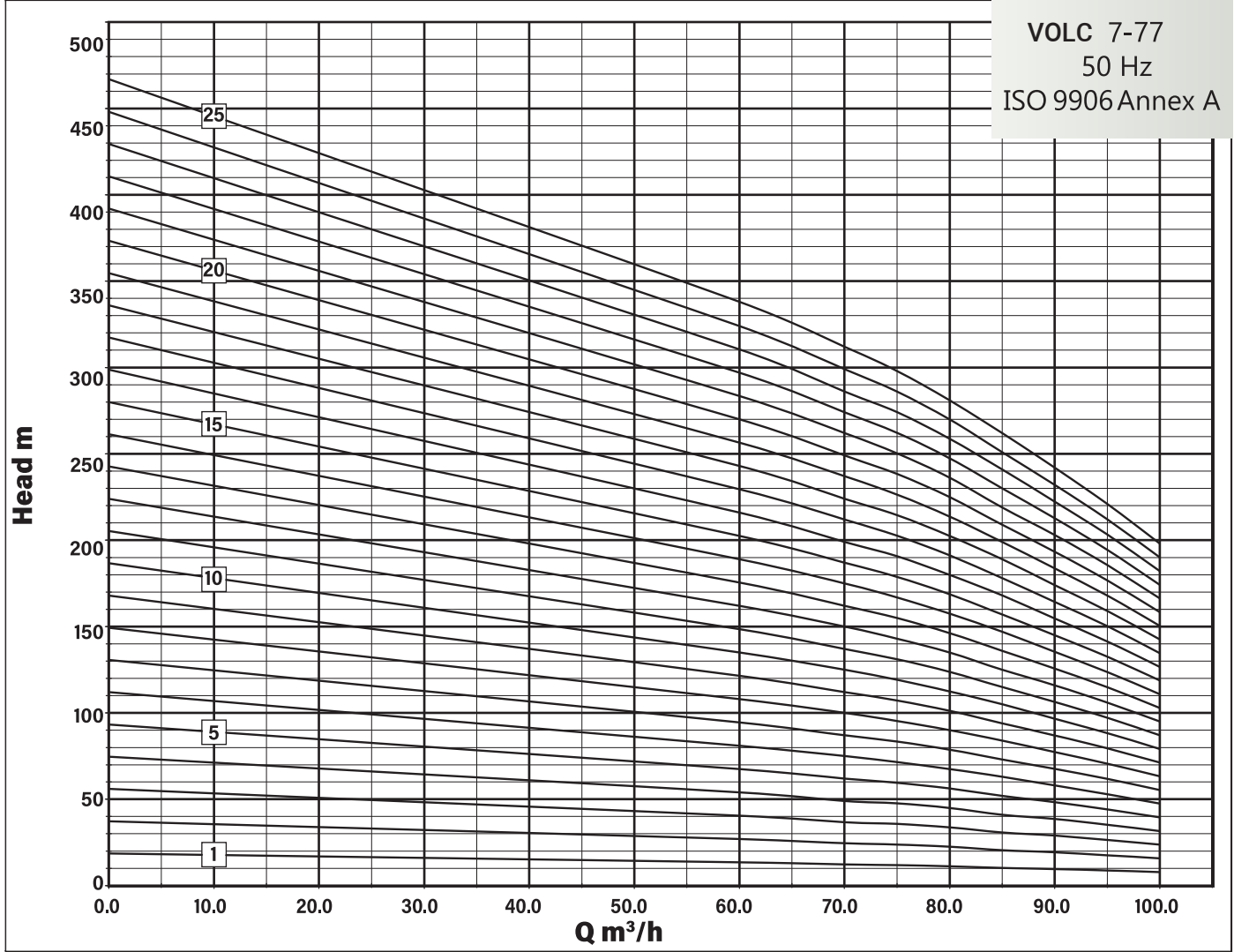
STAINLESS STEEL SUBMERSIBLE

VOLC 7-77 SERIES

Stainless Steel Submersible Pumps / VOLC 7-77 Series														50 Hz	
Pump Type	power		Flow										Pump Weight	Pump length	Outlet
			m³/h	0.0	60.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0			
	Kw	Hp	l/s	0.00	16.67	19.44	20.83	22.22	23.61	25.00	26.39	27.78	Kg	cm	Inch
VOLC 7-77/ 01	3	4	Head m	19	14	12	12	11	10	10	9	8	19	55	5"
VOLC 7-77/ 02	5.5	7.5		37	27	25	24	23	21	19	18	16	23	68	
VOLC 7-77/ 03	9.2	12.5		56	41	37	36	34	31	29	26	24	27	81	
VOLC 7-77/ 04	11	15		75	54	49	48	45	41	39	35	32	31	94	
VOLC 7-77/ 05	15	20		93	68	62	60	56	52	48	44	40	35	107	
VOLC 7-77/ 06	18.5	25		112	81	75	71	68	63	58	53	47	38	119	
VOLC 7-77/ 07	22	30		131	95	87	83	79	73	68	62	55	42	132	
VOLC 7-77/ 08	26	35		149	108	100	95	90	84	77	71	63	46	145	
VOLC 7-77/ 09	30	40		168	122	112	107	101	94	87	79	71	50	158	
VOLC 7-77/ 10	37	50		187	135	125	119	113	105	97	88	79	54	171	
VOLC 7-77/ 11	37	50		205	149	137	131	124	115	106	97	87	57	183	
VOLC 7-77/ 12	45	60		224	162	150	143	135	125	116	106	95	61	196	
VOLC 7-77/ 13	45	60		243	176	162	155	146	136	126	115	103	65	209	
VOLC 7-77/ 14	45	60		261	189	175	167	158	147	135	124	111	69	222	
VOLC 7-77/ 15	52	70		280	203	187	179	169	157	145	133	119	73	235	
VOLC 7-77/ 16	52	70		299	216	199	191	180	168	155	141	127	76	247	
VOLC 7-77/ 17	55	75		317	230	212	203	191	178	164	150	135	80	260	
VOLC 7-77/ 18	59	80		336	243	224	215	203	189	174	159	143	84	273	
VOLC 7-77/ 19	59	80		355	257	237	226	214	199	184	168	150	88	286	
VOLC 7-77/ 20	66	90		373	270	249	238	225	209	193	177	158	92	299	
VOLC 7-77/ 21	75	100		392	284	262	250	236	219	203	186	166	95	311	
VOLC 7-77/ 22	75	100		411	297	274	262	248	230	213	194	174	99	324	
VOLC 7-77/ 23	75	100		429	311	286	274	259	241	222	203	182	103	337	
VOLC 7-77/ 24	81	110		448	324	299	286	270	251	232	212	190	107	350	
VOLC 7-77/ 25	92	125		467	338	312	298	281	262	242	221	198	111	363	

STAINLESS STEEL SUBMERSIBLE

VOLC 7-77 SERIES

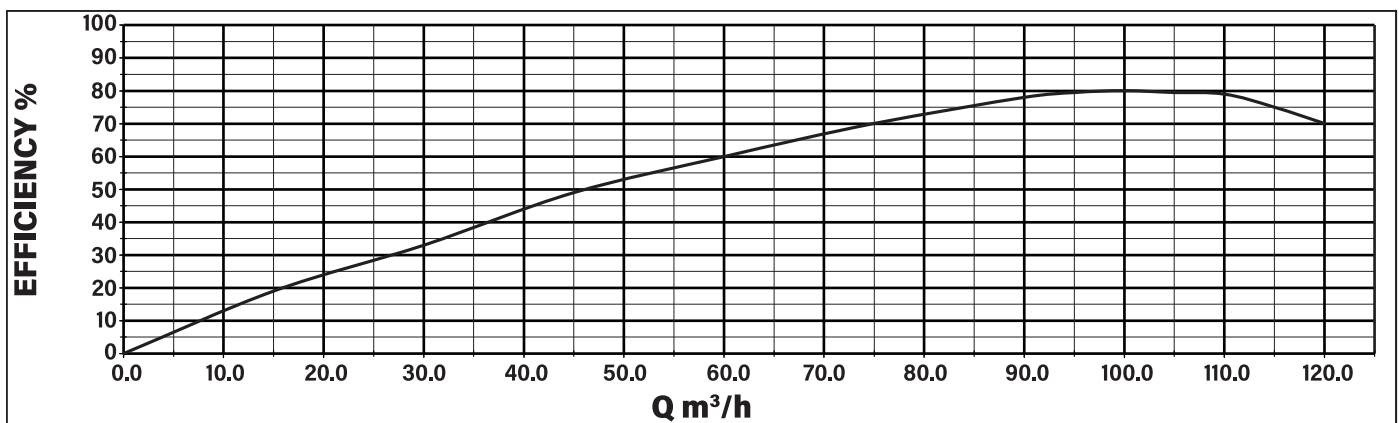
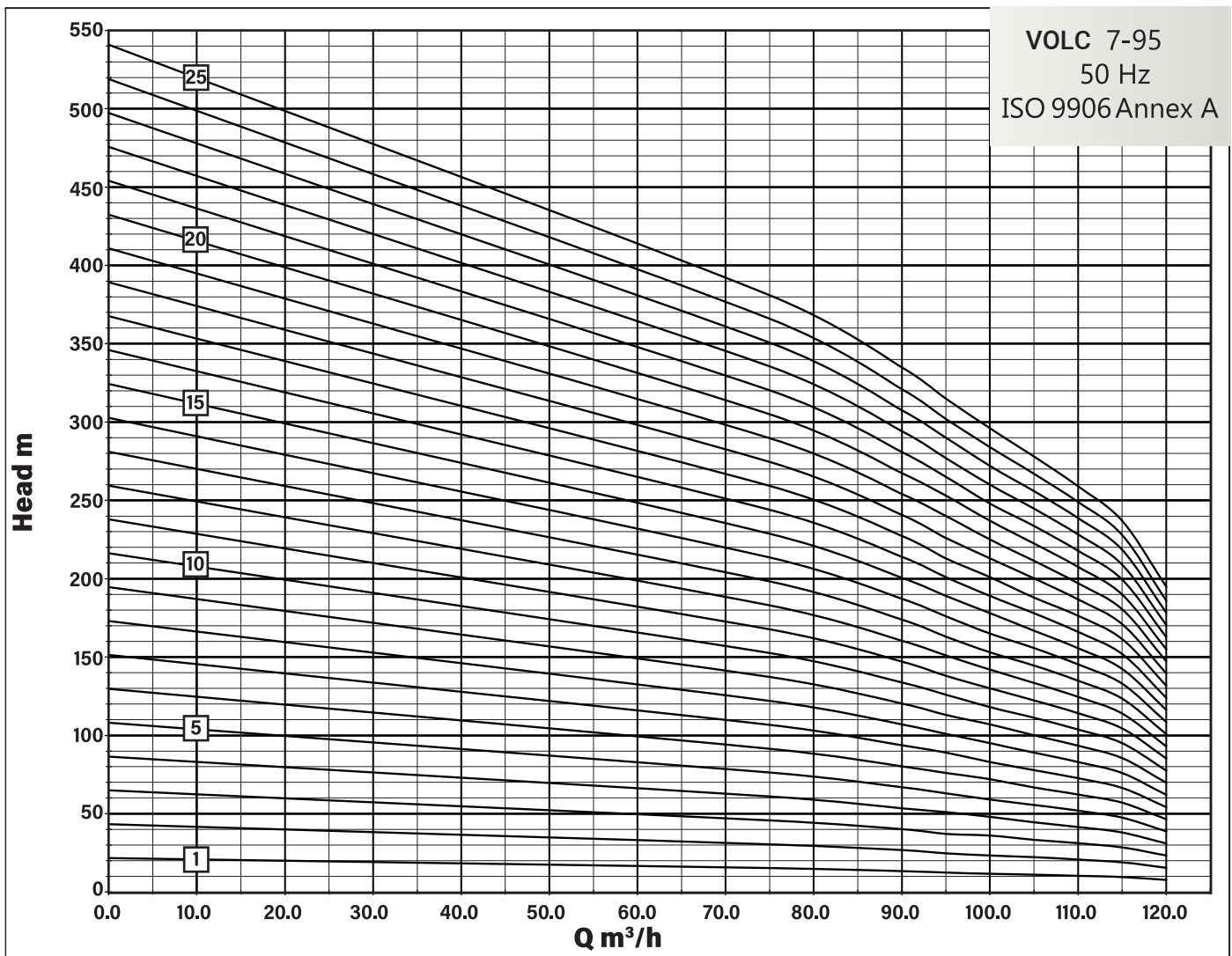


STAINLESS STEEL SUBMERSIBLE VOLC 7-95 SERIES

Stainless Steel Submersible Pumps / VOLC 7-95 Series														50 Hz	
Pump Type	power		Flow										Pump Weight	Pump length	Outlet
			m³/h	0.0	75.0	90.0	95.0	100.0	105.0	110.0	115.0	120.0			
	Kw	Hp	l/s	0.00	20.83	25.00	26.39	27.78	29.17	30.56	31.94	33.33	Kg	cm	Inch
VOLC 7-95/ 01	4	5.5	Head m	22	15	13	12	12	11	10	10	8	19	55	5"
VOLC 7-95/ 02	7.5	10		43	31	27	25	23	22	21	19	16	23	68	
VOLC 7-95/ 03	11	15		65	46	40	37	36	33	31	29	23	27	81	
VOLC 7-95/ 04	15	20		87	61	54	51	48	45	42	38	31	31	94	
VOLC 7-95/ 05	22	30		108	76	67	63	59	56	52	48	39	35	107	
VOLC 7-95/ 06	26	35		130	92	80	76	72	67	62	57	47	38	119	
VOLC 7-95/ 07	30	40		151	107	94	89	83	78	73	67	54	42	132	
VOLC 7-95/ 08	37	50		173	122	107	101	95	89	83	76	62	46	145	
VOLC 7-95/ 09	45	60		195	137	120	113	107	100	93	86	70	50	158	
VOLC 7-95/ 10	45	60		216	153	134	126	118	111	104	95	78	54	171	
VOLC 7-95/ 11	45	60		238	168	147	138	130	122	114	105	85	57	183	
VOLC 7-95/ 12	52	70		260	183	161	151	142	134	125	114	93	61	196	
VOLC 7-95/ 13	59	80		281	198	174	163	153	145	135	124	101	65	209	
VOLC 7-95/ 14	59	80		303	214	187	176	165	156	145	133	109	69	222	
VOLC 7-95/ 15	66	90		324	229	201	189	178	167	156	143	116	73	235	
VOLC 7-95/ 16	75	100		346	244	214	201	189	178	166	152	124	76	247	
VOLC 7-95/ 17	75	100		368	259	227	213	201	188	176	162	132	80	260	
VOLC 7-95/ 18	81	110		389	275	241	226	213	200	187	171	140	84	273	
VOLC 7-95/ 19	92	125		411	290	254	240	225	211	197	181	147	88	286	
VOLC 7-95/ 20	92	125		433	305	268	253	237	223	208	190	155	92	299	
VOLC 7-95/ 21	92	125		454	320	281	265	248	234	218	200	163	95	311	
VOLC 7-95/ 22	110	150		476	336	294	277	260	245	228	209	171	99	324	
VOLC 7-95/ 23	110	150		497	351	308	290	272	256	239	219	178	103	337	
VOLC 7-95/ 24	110	150		519	366	321	302	284	267	249	228	186	107	350	
VOLC 7-95/ 25	110	150		541	381	335	315	296	278	259	237	195	111	363	

STAINLESS STEEL SUBMERSIBLE

VOLC 7-95 SERIES



VOLC 8"

Pump Series

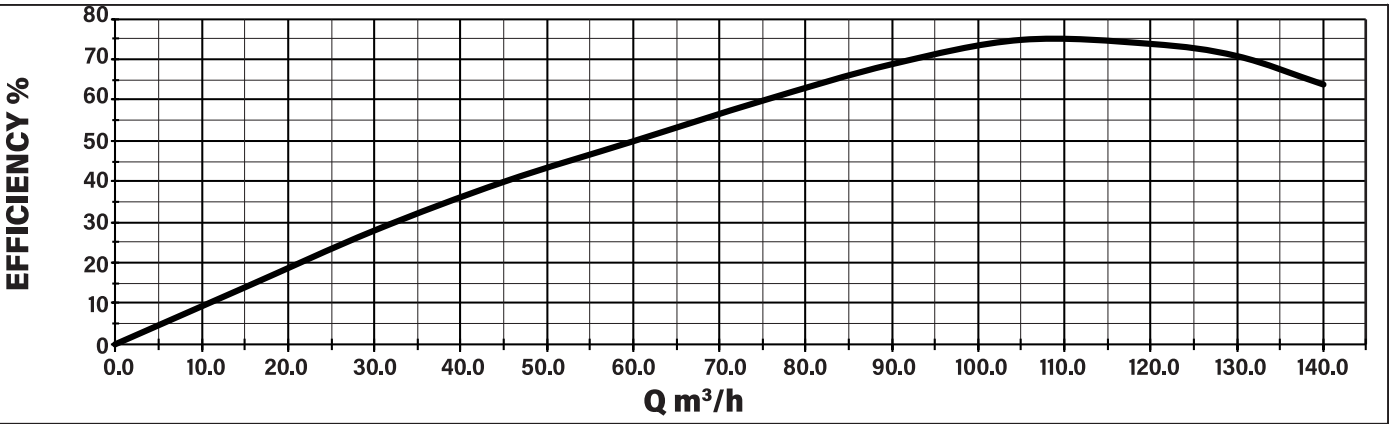
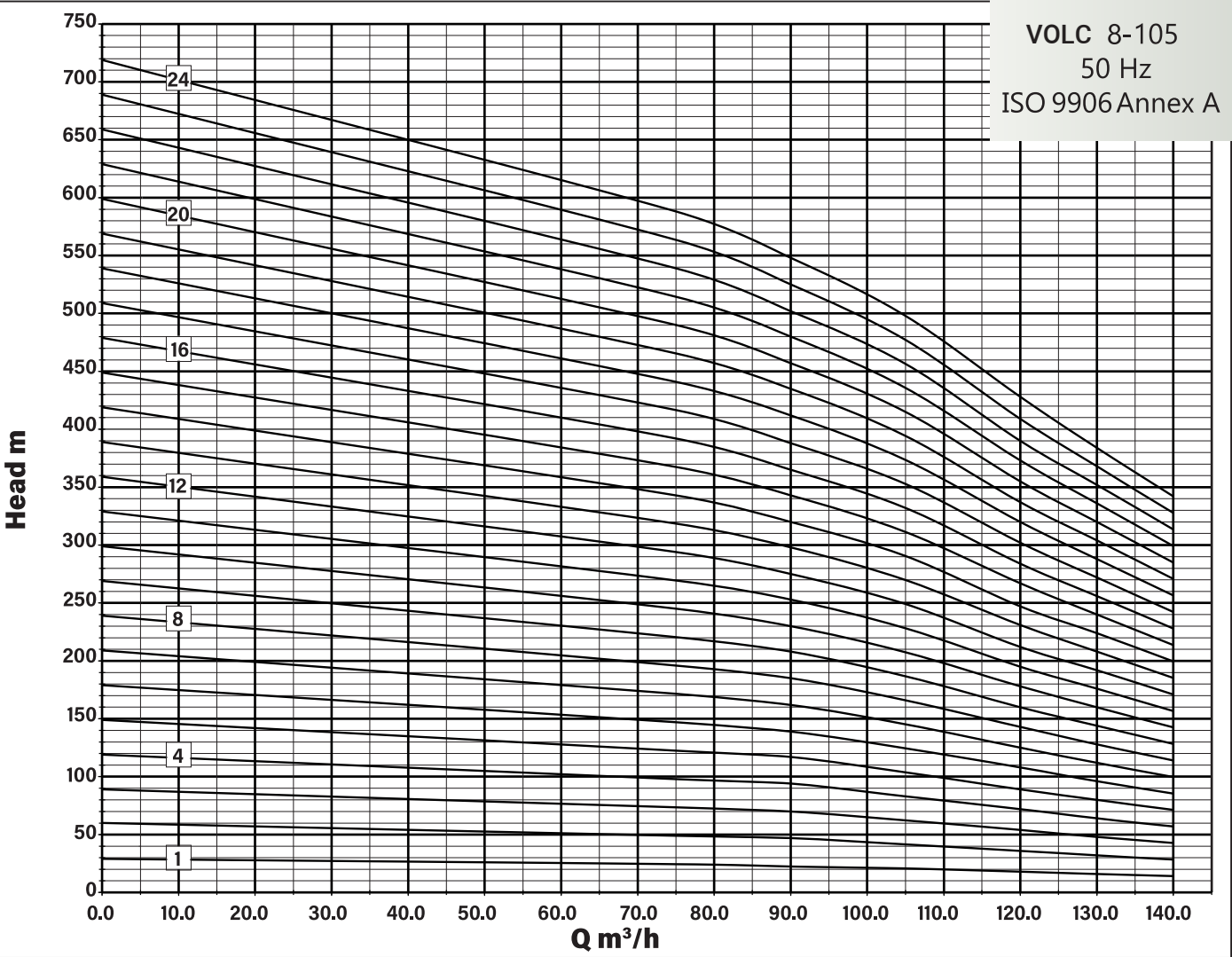


STAINLESS STEEL SUBMERSIBLE VOLC 8-105 SERIES

Stainless Steel Submersible Pumps / VOLC 8-105 Series													50 Hz
Pump Type	power		Flow								Pump Weight	Pump length	Outlet
			m³/h	0.0	75.0	90.0	105.0	120.0	130.0	140.0			
	Kw	Hp	l/s	0.00	20.83	25.00	29.17	33.33	36.11	38.89	Kg	cm	Inch
VOLC 8-105/ 01	7.5	10	Head m	29	25	23	21	18	16	14	25	58	6"
VOLC 8-105/ 02	15	20		60	49	47	42	36	32	29	32	73	
VOLC 8-105/ 03	27	35		89	74	70	62	54	48	43	39	88	
VOLC 8-105/ 04	37	50		119	98	94	83	72	64	57	46	103	
VOLC 8-105/ 05	45	60		149	123	117	104	89	80	71	53	118	
VOLC 8-105/ 06	52	70		179	147	139	125	108	96	86	60	133	
VOLC 8-105/ 07	55	75		209	172	162	145	125	112	100	67	148	
VOLC 8-105/ 08	66	90		239	196	185	166	143	128	114	73	163	
VOLC 8-105/ 09	75	100		269	221	208	187	160	144	128	80	178	
VOLC 8-105/ 10	81	110		299	245	230	208	178	160	143	87	193	
VOLC 8-105/ 11	92	125		329	270	253	228	195	176	157	94	208	
VOLC 8-105/ 12	92	125		359	294	275	249	212	192	171	101	223	
VOLC 8-105/ 13	110	150		389	319	298	270	231	208	185	108	238	
VOLC 8-105/ 14	110	150		419	343	320	291	247	224	200	115	253	
VOLC 8-105/ 15	129	175		449	368	343	311	267	240	214	122	268	
VOLC 8-105/ 16	129	175		479	392	365	332	284	256	228	129	283	
VOLC 8-105/ 17	147	200		509	417	388	353	302	272	242	136	298	
VOLC 8-105/ 18	147	200		539	441	412	374	320	288	257	143	313	
VOLC 8-105/ 19	147	200		569	466	435	394	337	304	271	150	328	
VOLC 8-105/ 20	166	225		599	490	457	415	355	320	285	157	343	
VOLC 8-105/ 21	166	225		629	515	480	436	373	336	299	164	358	
VOLC 8-105/ 22	184	250		659	539	502	457	390	352	314	171	373	
VOLC 8-105/ 23	184	250		689	564	525	477	409	368	328	178	388	
VOLC 8-105/ 24	184	250		719	588	548	498	428	384	342	185	403	

STAINLESS STEEL SUBMERSIBLE

VOLC 8-105 SERIES



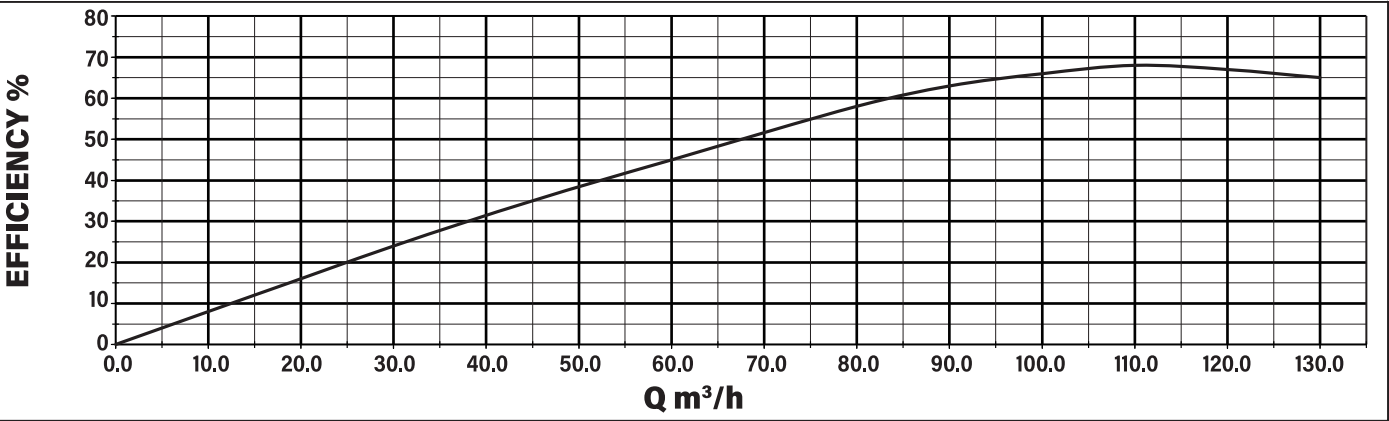
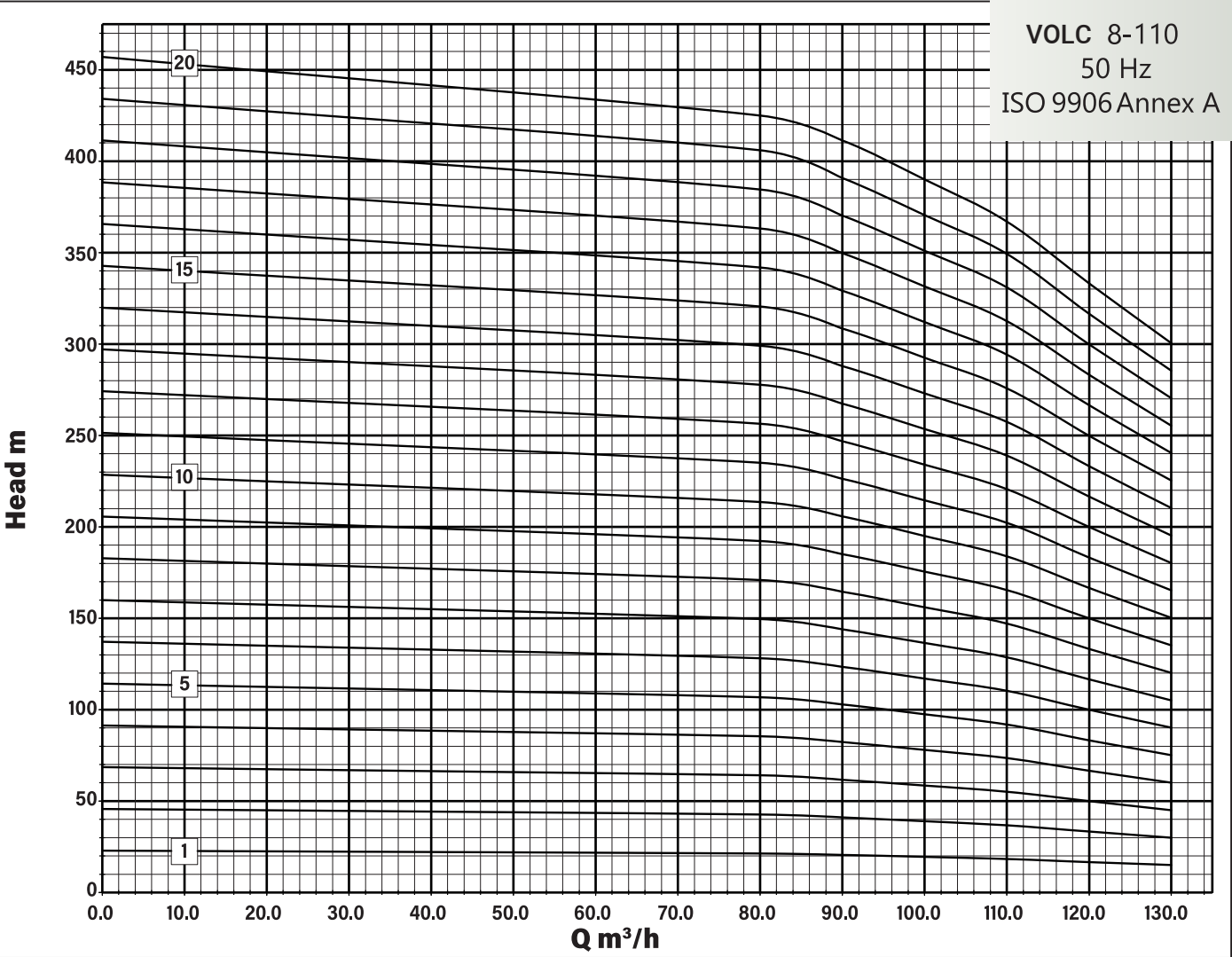
STAINLESS STEEL SUBMERSIBLE

VOLC 8-110 SERIES

Stainless Steel Submersible Pumps / VOLC 8-110 Series												50 Hz	
Pump Type	power		Flow								Pump Weight	Pump length	Outlet
			m³/h	0.0	80.0	90.0	100.0	110.0	120.0	130.0			
	Kw	Hp	l/s	0.00	22.22	25.00	27.78	30.56	33.33	36.11	Kg	cm	Inch
VOLC 8-110/ 01	7.5	10	Head m	23	21	21	20	18	17	15	25	58	6"
VOLC 8-110/ 02	13	17.5		46	43	41	39	37	33	30	32	74	
VOLC 8-110/ 03	22	30		69	64	62	59	55	50	45	39	90	
VOLC 8-110/ 04	30	40		91	85	82	78	74	67	60	46	105	
VOLC 8-110/ 05	45	60		114	107	103	98	92	83	75	53	121	
VOLC 8-110/ 06	45	60		137	128	123	117	110	100	90	60	137	
VOLC 8-110/ 07	55	75		160	150	144	137	129	117	105	67	152	
VOLC 8-110/ 08	59	80		183	171	165	156	147	133	120	73	168	
VOLC 8-110/ 09	75	100		206	192	185	176	165	150	135	80	184	
VOLC 8-110/ 10	81	110		229	214	206	195	184	167	150	87	199	
VOLC 8-110/ 11	92	125		251	235	226	215	202	183	165	94	215	
VOLC 8-110/ 12	110	150		274	256	247	234	221	200	180	101	231	
VOLC 8-110/ 13	110	150		297	278	267	254	239	217	195	108	247	
VOLC 8-110/ 14	110	150		320	299	288	273	257	233	210	115	262	
VOLC 8-110/ 15	129	175		343	320	309	293	276	250	225	122	278	
VOLC 8-110/ 16	129	175		366	342	329	312	294	267	240	129	294	
VOLC 8-110/ 17	129	175		388	363	350	332	313	283	255	136	309	
VOLC 8-110/ 18	147	200		411	385	370	351	331	300	270	143	325	
VOLC 8-110/ 19	147	200		434	406	391	371	349	317	285	150	341	
VOLC 8-110/ 20	166	225		457	425	411	390	367	333	300	157	356	

STAINLESS STEEL SUBMERSIBLE

VOLC 8-110 SERIES



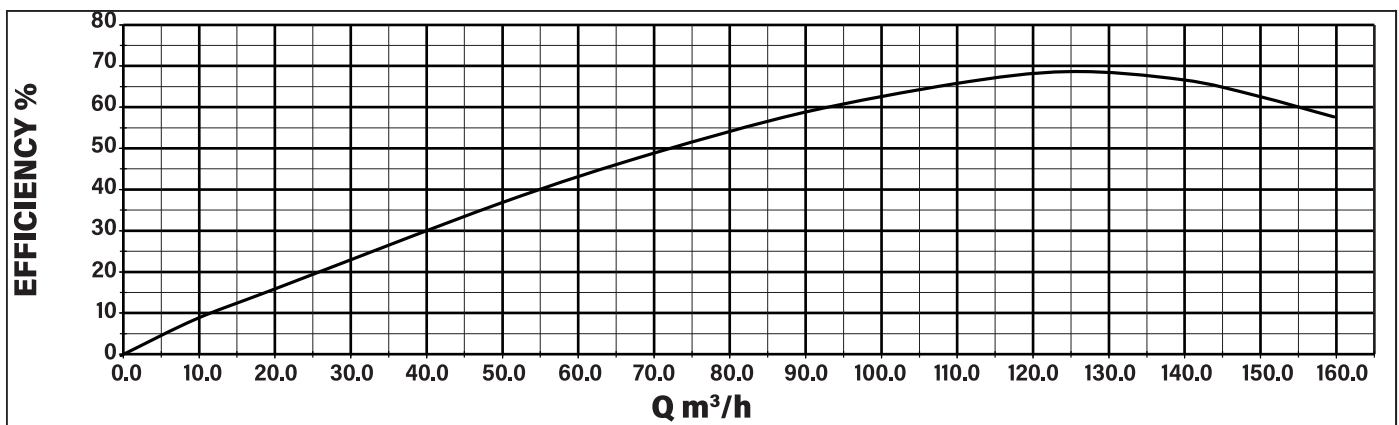
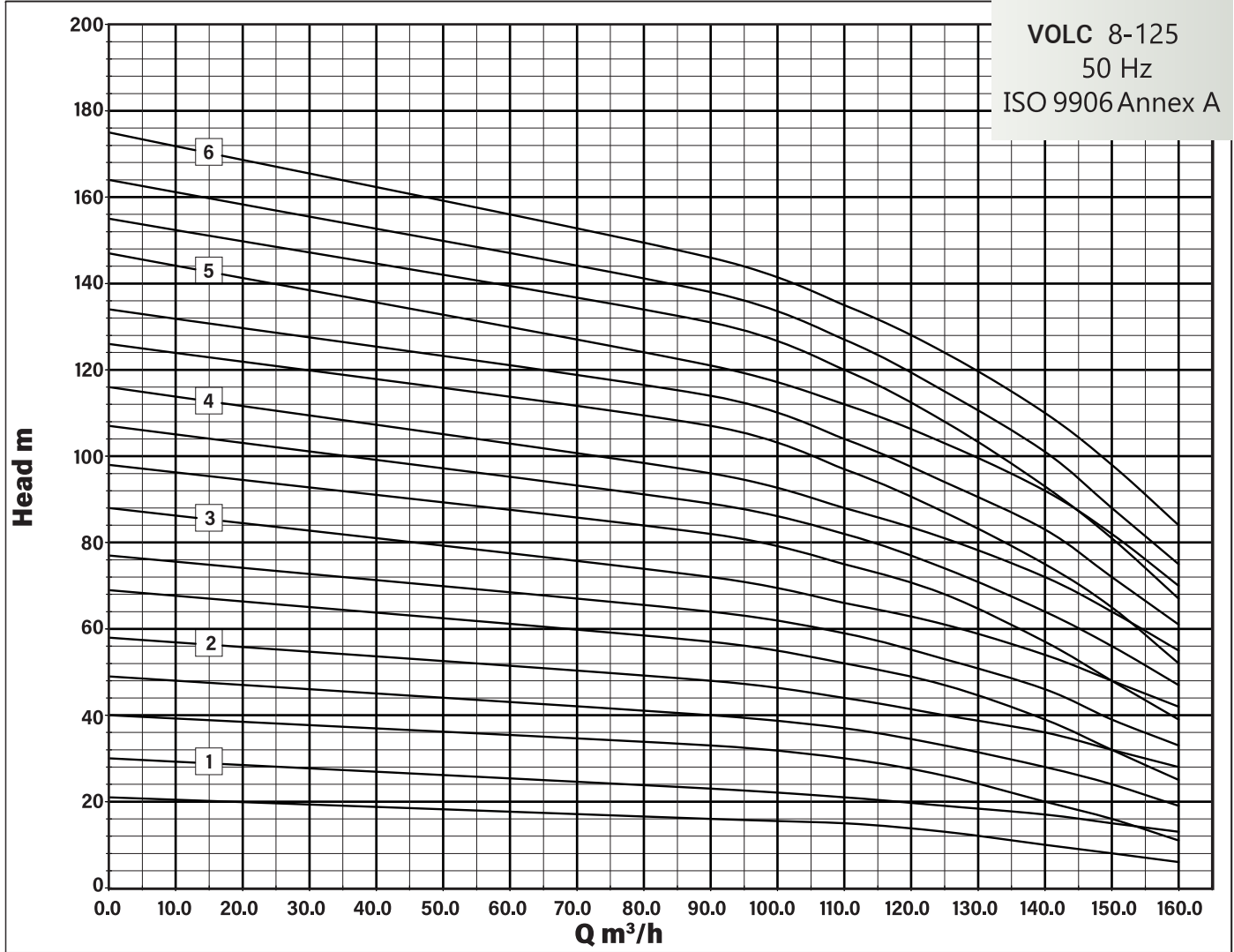
STAINLESS STEEL SUBMERSIBLE

VOLC 8-125 SERIES

Stainless Steel Submersible Pumps / VOLC 8-125 Series													50 Hz
Pump Type	power		Flow								Pump Weight	Pump length	Outlet
			m³/h	0.0	90.0	110.0	125.0	140.0	150.0	160.0			
	Kw	Hp	l/s	0.00	25.00	30.56	34.72	38.89	41.67	44.44	Kg	cm	Inch
VOLC 8-125/ 01/K	7.5	10	Head m	21	16	15	13	10	8	6	25	58	6"
VOLC 8-125/ 01	7.5	10		30	23	21	19	17	15	13	25	58	
VOLC 8-125/ 02/KK	13	17.5		40	33	30	26	20	16	11	32	74	
VOLC 8-125/ 02/K	15	20		49	40	37	33	28	24	19	32	74	
VOLC 8-125/ 02	18.5	25		58	48	44	40	36	32	28	32	74	
VOLC 8-125/ 03/KK	22	30		69	57	52	47	39	32	25	39	90	
VOLC 8-125/ 03/K	26	35		77	64	59	53	46	39	33	39	90	
VOLC 8-125/ 03	30	40		88	72	66	61	54	48	42	39	90	
VOLC 8-125/ 04/KK	37	50		98	82	75	68	57	48	39	46	105	
VOLC 8-125/ 04/K	37	50		107	89	82	74	64	56	47	46	105	
VOLC 8-125/ 04	37	50		116	96	88	81	72	64	55	46	105	
VOLC 8-125/ 05/KK	45	60		126	107	97	87	75	65	52	53	121	
VOLC 8-125/ 05/K	45	60		134	114	104	94	83	72	61	53	121	
VOLC 8-125/ 05	45	60		147	121	112	103	92	82	70	53	121	
VOLC 8-125/ 06/KK	52	70		155	131	120	108	93	81	67	60	137	
VOLC 8-125/ 06/K	55	75		164	138	127	115	101	88	75	60	137	
VOLC 8-125/ 06	59	80		175	146	135	124	110	98	84	60	137	
VOLC 8-125/ 07/KK	59	80		184	155	142	128	113	97	81	67	152	
VOLC 8-125/ 07/K	66	90		193	162	149	135	119	105	89	67	152	
VOLC 8-125/ 07	66	90		204	170	158	144	129	115	99	67	152	
VOLC 8-125/ 08/KK	75	100		213	179	165	149	131	114	95	73	168	
VOLC 8-125/ 08/K	75	100		221	186	172	156	139	122	104	73	168	
VOLC 8-125/ 08	81	110		231	193	179	164	145	130	111	73	168	
VOLC 8-125/ 09/KK	81	110		241	203	188	170	150	131	112	80	184	
VOLC 8-125/ 09/K	92	125		249	212	196	178	158	140	119	80	184	
VOLC 8-125/ 09	92	125		259	218	202	185	166	147	127	80	184	
VOLC 8-125/ 10/KK	92	125		271	227	209	190	167	146	123	87	199	
VOLC 8-125/ 10/K	92	125		277	235	216	197	175	155	131	87	199	
VOLC 8-125/ 10	110	150		286	242	223	204	182	162	139	87	199	
VOLC 8-125/ 11	110	150		318	267	247	226	201	179	156	94	215	
VOLC 8-125/ 12	129	175		347	293	271	249	222	199	172	101	231	
VOLC 8-125/ 13	129	175		375	316	292	267	239	213	183	108	247	
VOLC 8-125/ 14	129	175		405	341	316	289	258	230	198	115	262	
VOLC 8-125/ 15	147	200		432	365	337	307	275	245	211	122	278	

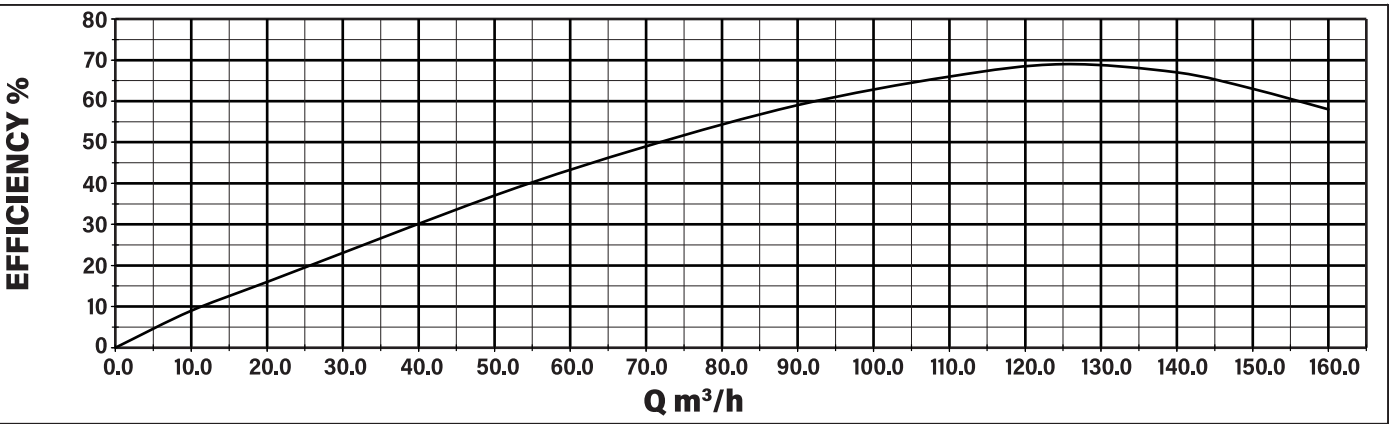
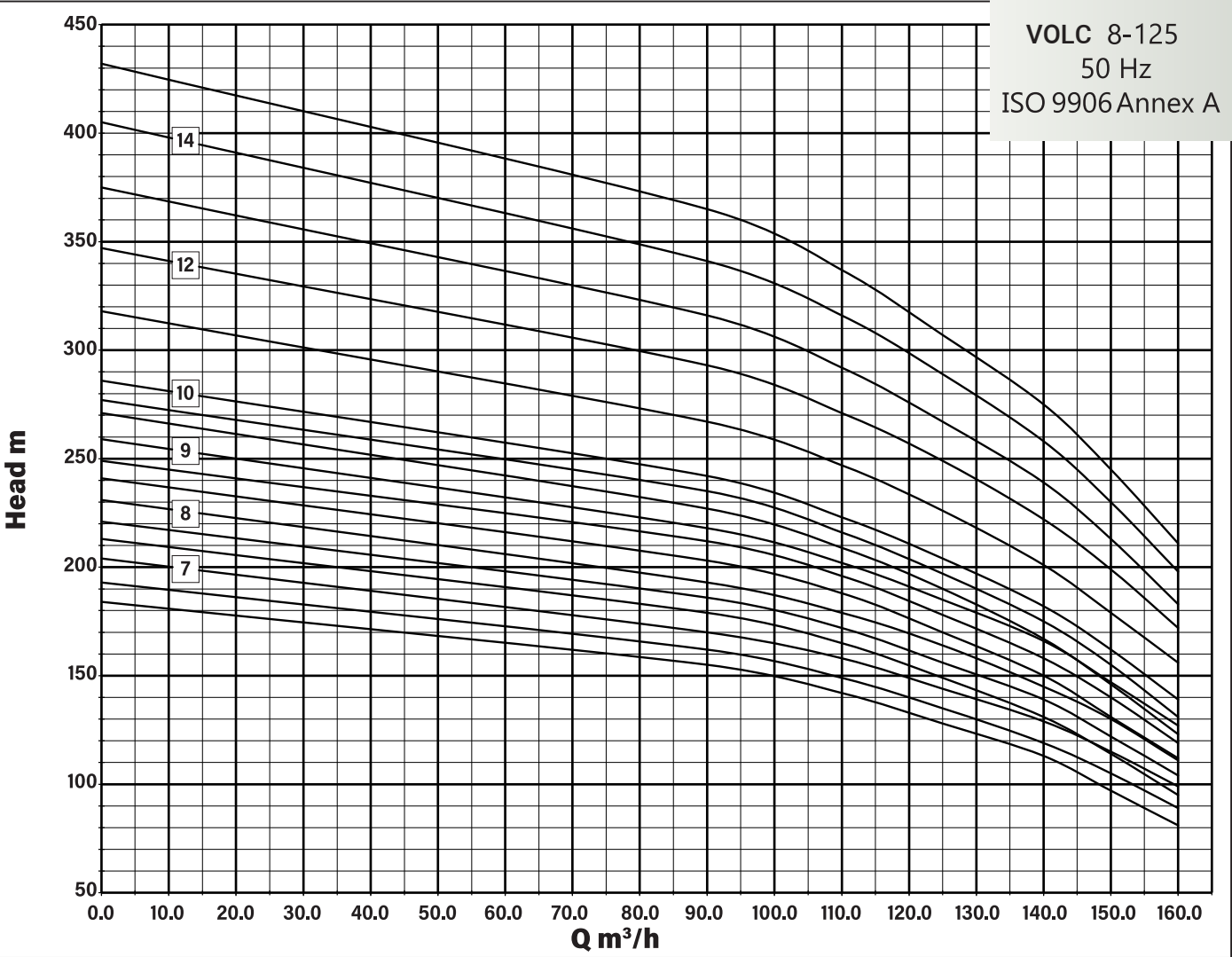
STAINLESS STEEL SUBMERSIBLE

VOLC 8-125 SERIES



STAINLESS STEEL SUBMERSIBLE

VOLC 8-125 SERIES

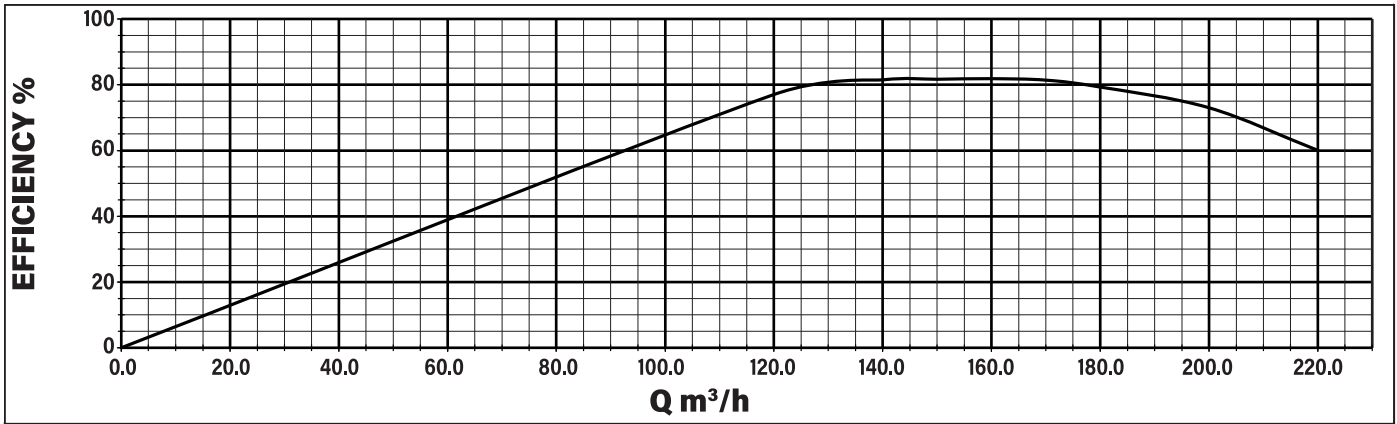
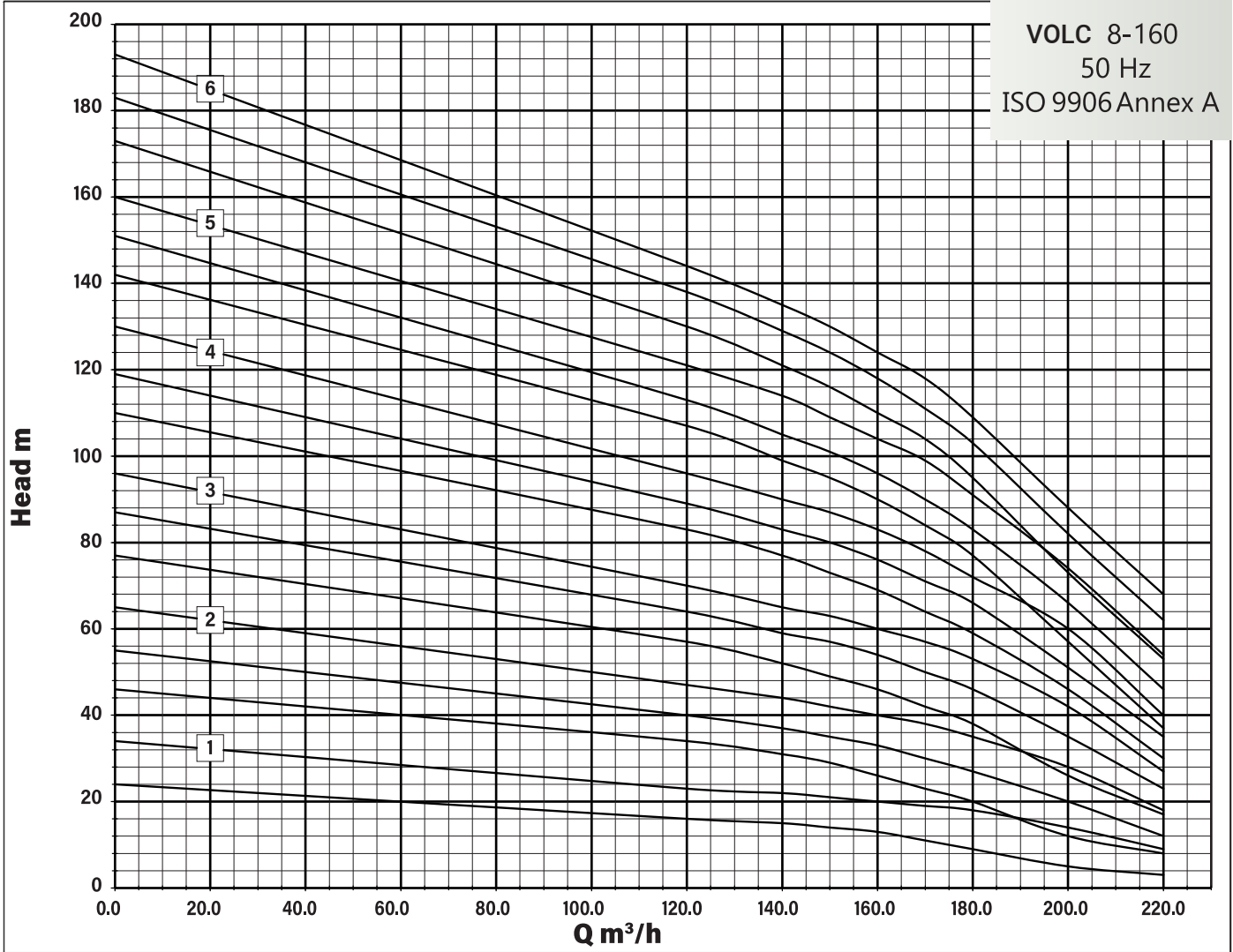


STAINLESS STEEL SUBMERSIBLE VOLC8-160 SERIES

Stainless Steel Submersible Pumps / VOLC 8-160 Series														50 Hz	
Pump Type	power		Flow									Pump Weight	Pump length	Outlet	
			m³/h	0.0	120.0	140.0	150.0	160.0	170.0	180.0	200.0				220.0
	Kw	Hp	l/s	0.00	33.33	38.89	41.67	44.44	47.22	50.00	55.56	61.11	Kg	cm	Inch
VOLC 8-160/ 01/K	7.5	10	Head m	24	16	15	14	13	11	9	5	3	25	58	6"
VOLC 8-160/ 01	11	15		34	23	22	21	20	19	18	14	9	25	58	
VOLC 8-160/ 02/KK	15	20		46	34	31	29	26	23	20	12	8	32	74	
VOLC 8-160/ 02/K	22	30		55	40	37	35	33	30	27	20	12	32	74	
VOLC 8-160/ 02	26	35		65	47	44	42	40	38	35	28	18	32	74	
VOLC 8-160/ 03/KK	30	40		77	57	52	49	46	42	38	26	17	39	90	
VOLC 8-160/ 03/K	37	50		87	64	59	57	54	50	46	35	23	39	90	
VOLC 8-160/ 03	37	50		96	70	65	63	60	57	53	42	27	39	90	
VOLC 8-160/ 04/KK	45	60		110	83	77	73	69	64	59	46	30	46	105	
VOLC 8-160/ 04/K	45	60		119	89	83	80	76	71	66	51	35	46	105	
VOLC 8-160/ 04	45	60		130	96	90	87	83	78	72	60	40	46	105	
VOLC 8-160/ 05/KK	52	70		142	107	99	95	90	84	77	57	37	53	121	
VOLC 8-160/ 05/K	59	80		151	113	105	101	96	90	83	66	46	53	121	
VOLC 8-160/ 05	59	80		160	121	114	109	104	99	91	74	54	53	121	
VOLC 8-160/ 06/KK	66	90		173	130	121	116	110	104	95	73	53	60	137	
VOLC 8-160/ 06/K	75	100		183	138	129	124	118	111	103	82	62	60	137	
VOLC 8-160/ 06	75	100		193	144	135	130	124	118	109	88	68	60	137	
VOLC 8-160/ 07/KK	81	110		205	153	143	137	130	123	112	87	67	67	152	
VOLC 8-160/ 07/K	81	110		214	159	149	143	136	129	119	94	74	67	152	
VOLC 8-160/ 07	92	125		223	166	156	150	143	135	125	101	81	67	152	
VOLC 8-160/ 08/KK	92	125		235	175	163	157	149	140	127	100	80	73	168	
VOLC 8-160/ 08/K	92	125		244	182	170	163	155	145	134	107	87	73	168	
VOLC 8-160/ 08	110	150		252	189	177	170	162	152	140	114	94	73	168	
VOLC 8-160/ 09/KK	110	150		265	200	188	180	170	160	146	115	95	80	184	
VOLC 8-160/ 09/K	110	150		275	206	194	186	176	165	153	122	102	80	184	
VOLC 8-160/ 09	110	150		285	213	200	192	183	172	158	128	108	80	184	
VOLC 8-160/ 10/KK	129	175		296	224	209	200	190	178	163	127	107	87	199	
VOLC 8-160/ 10/K	129	175		309	233	219	211	202	189	175	142	118	87	199	
VOLC 8-160/ 10	129	175		320	241	227	219	210	198	184	150	126	87	199	
VOLC 8-160/ 11	129	175		350	264	248	239	228	215	200	161	138	94	215	
VOLC 8-160/ 12	147	200		385	290	274	264	252	238	220	180	151	101	231	
VOLC 8-160/ 13	166	225		416	315	296	285	274	258	240	195	166	108	247	
VOLC 8-160/ 14	166	225		447	339	318	307	294	277	258	209	180	115	262	
VOLC 8-160/ 15	185	250		480	364	343	330	315	298	278	226	195	122	278	

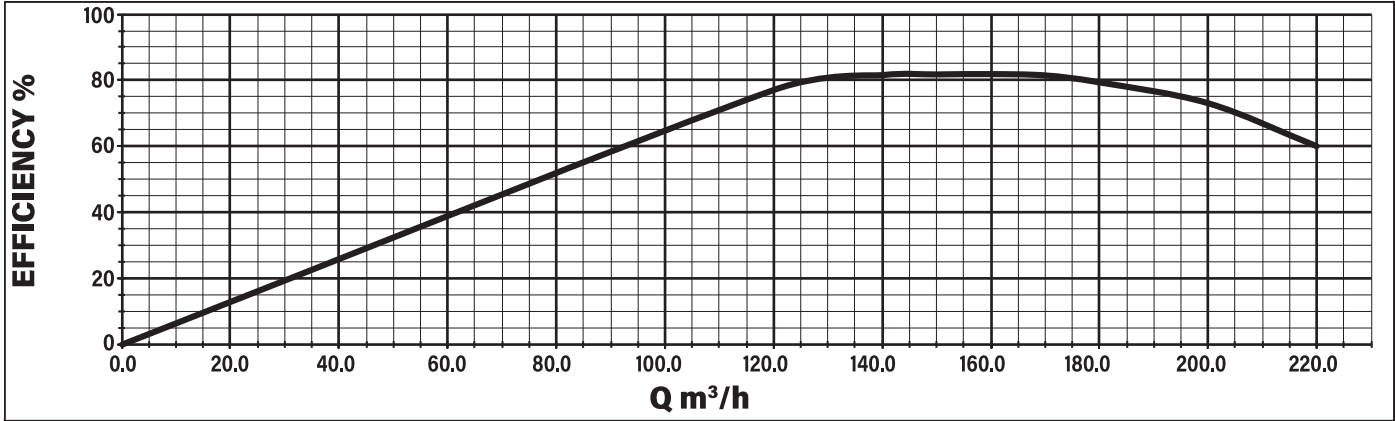
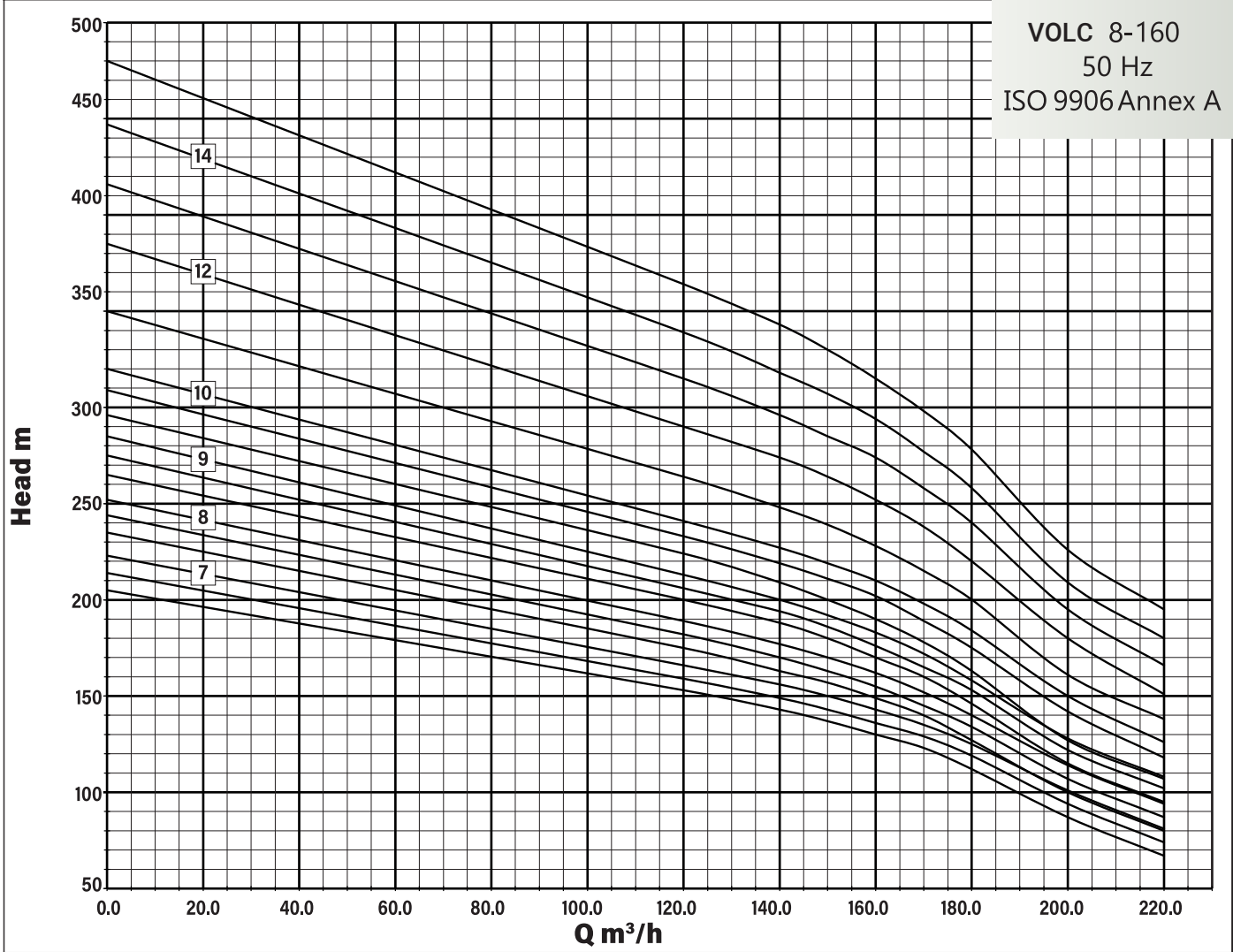
STAINLESS STEEL SUBMERSIBLE

VOLC 8-160 SERIES



STAINLESS STEEL SUBMERSIBLE

VOLC 8-160 SERIES



VOLC 10"

Pump Series

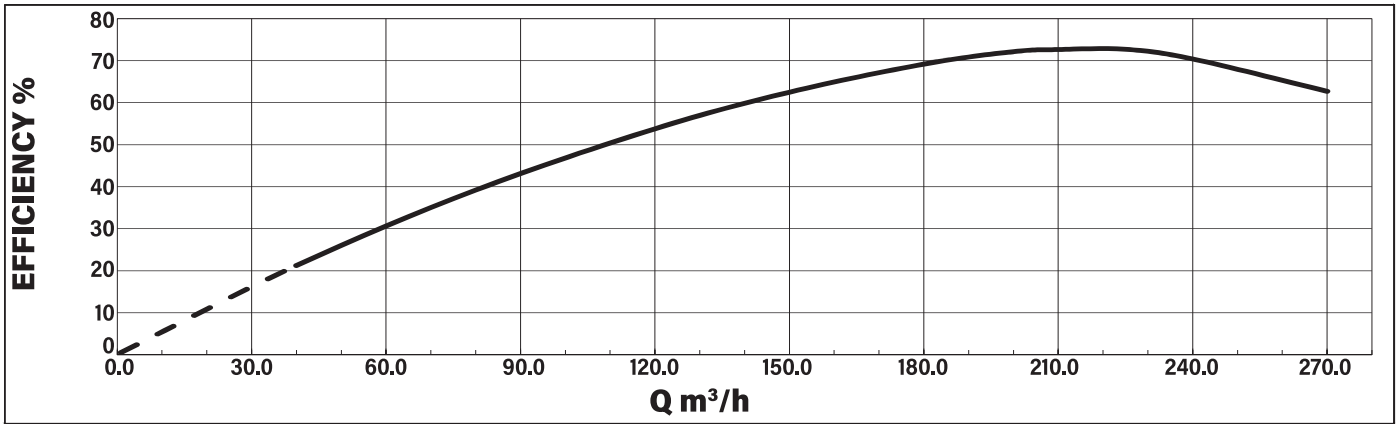
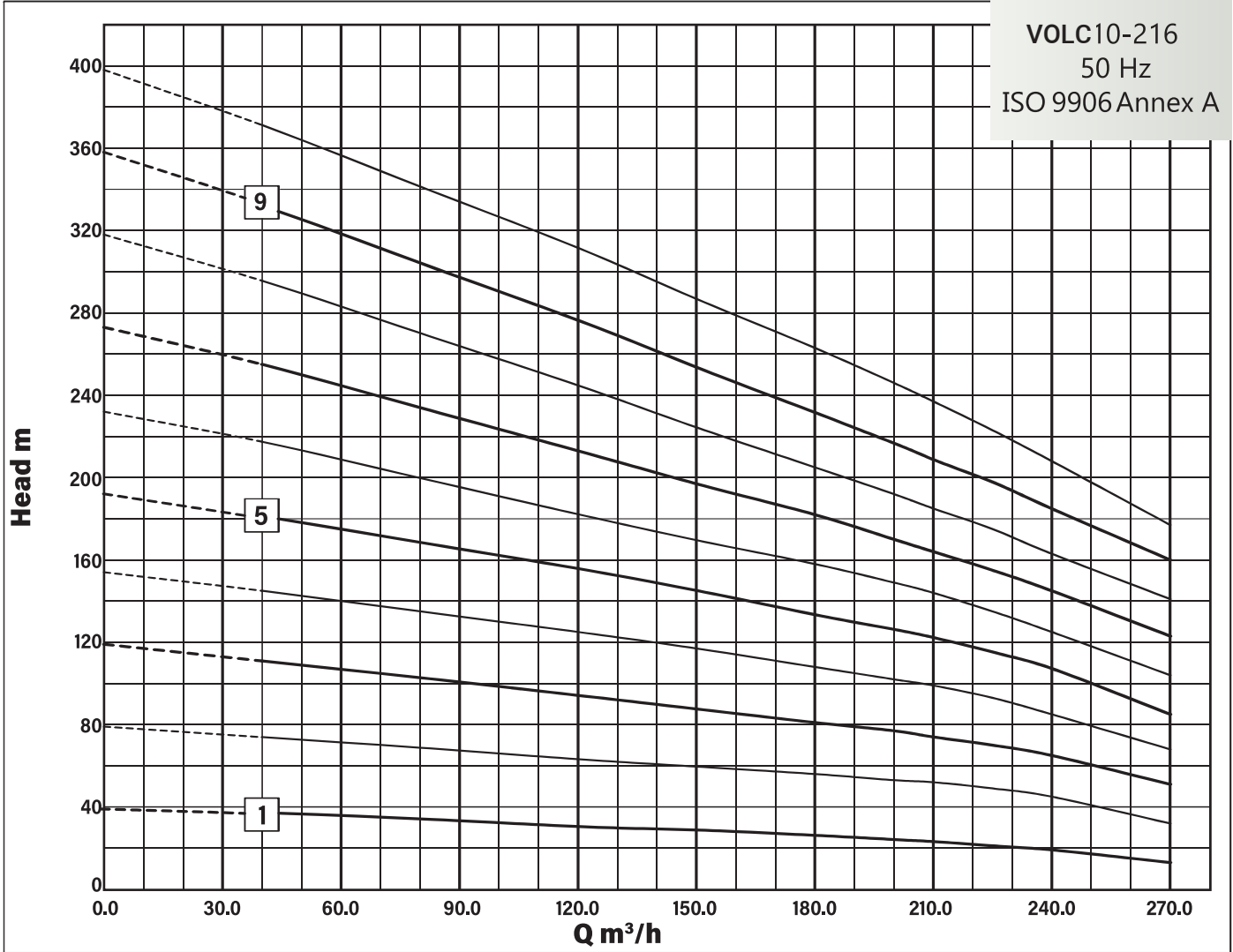


STAINLESS STEEL SUBMERSIBLE VOLC 10-216 SERIES

Stainless Steel Submersible Pumps / VOLC 10-216 Series												50 Hz	
Pump Type	power		Flow							Pump Weight	Pump length	Outlet	
			m³/h	0.0	180.0	200.0	210.0	225.0	240.0			270.0	
	Kw	Hp	l/s	0.00	50.00	55.56	58.33	62.50	66.67	75.00	Kg	cm	Inch
VOLC 10-216/ 01/K	15	20	Head m	28	18	17	16	14	10	4	28	71	6"
VOLC 10-216/ 01	18.5	25		39	26	24	22	21	19	13	28	71	
VOLC 10-216/ 02/KK	30	40		53	37	34	30	27	21	15	40	88	
VOLC 10-216/ 02/K	37	50		63	44	40	37	33	28	24	40	88	
VOLC 10-216/ 02	37	50		79	51	47	44	41	36	32	40	88	
VOLC 10-216/ 03/KK	45	60		93	62	58	53	47	39	34	51	106	
VOLC 10-216/ 03/K	52	70		103	70	65	60	55	47	42	51	106	
VOLC 10-216/ 03	55	75		119	76	71	66	61	54	51	51	106	
VOLC 10-216/ 04/KK	60	80		132	90	84	78	70	59	50	63	123	
VOLC 10-216/ 04/K	75	100		143	96	90	84	77	66	60	63	123	
VOLC 10-216/ 04	75	100		154	104	94	91	84	74	68	63	123	
VOLC 10-216/ 05/KK	92	125		171	115	108	100	91	77	70	75	141	
VOLC 10-216/ 05/K	92	125		182	122	114	106	97	84	78	75	141	
VOLC 10-216/ 05	92	125		192	129	121	114	105	92	85	75	141	
VOLC 10-216/ 06/KK	110	150		211	141	131	123	111	96	88	87	158	
VOLC 10-216/ 06/K	110	150		222	147	137	128	117	103	96	87	158	
VOLC 10-216/ 06	110	150		232	154	144	136	125	110	104	87	158	
VOLC 10-216/ 07/KK	129	175		252	166	154	143	131	114	107	99	176	
VOLC 10-216/ 07/K	129	175		265	171	161	150	137	117	115	99	176	
VOLC 10-216/ 07	129	175		273	178	166	156	144	126	123	99	176	
VOLC 10-216/ 08/KK	147	200		292	188	176	166	151	127	125	110	193	
VOLC 10-216/ 08/K	147	200		306	196	183	171	156	135	132	110	193	
VOLC 10-216/ 08	147	200		318	201	189	177	161	141	141	110	193	
VOLC 10-216/ 09/KK	166	225		332	216	201	187	171	146	146	122	211	
VOLC 10-216/ 09/K	166	225		345	221	208	194	177	154	152	122	211	
VOLC 10-216/ 09	166	225		358	228	213	199	184	160	160	122	211	
VOLC 10-216/ 10/KK	185	250		373	238	224	208	191	161	161	134	228	
VOLC 10-216/ 10/K	185	250		385	251	236	221	204	176	168	134	228	
VOLC 10-216/ 10	185	250		398	259	242	227	209	184	177	134	228	

STAINLESS STEEL SUBMERSIBLE

VOLC 10-216 SERIES



VOLC Motors

4"-6"-8"-10"



4" Submersible Motor

	Type			length (mm)	Weight (kg)
		HP	KW		
220 V	SEM Y 4	0,75	0.55	389	9.2
	SEM Y 4	1	0.75	411	10.3
	SEM Y 4	1,5	1.1	434	11.4
	SEM Y 4	2	1.5	467	12.8
	SEM Y 4	3	2.2	565	17.4
380 V	SEM Y 4	1	0.75	384	8.8
	SEM Y 4	1,5	1.1	411	10.1
	SEM Y 4	2	1.5	428	10.8
	SEM Y 4	3	2.2	467	12.5
	SEM Y 4	4	3	522	15.0
	SEM Y 4	5,5	4	587	18.3
	SEM Y 4	7,5	5.5	687	22.5
	SEM Y 4	10	7.5	768	28.3
	Type			length (mm)	Weight (kg)
		HP	KW		
220 V	SEM I 4	0,75	0.55	389	9.2
	SEM I 4	1	0.75	411	10.3
	SEM I 4	1,5	1.1	434	11.4
	SEM I 4	2	1.5	467	12.8
	SEM I 4	3	2.2	565	17.4
380 V	SEM I 4	1	0.75	384	8.8
	SEM I 4	1,5	1.1	411	10.1
	SEM I 4	2	1.5	428	10.8
	SEM I 4	3	2.2	467	12.5
	SEM I 4	4	3	522	15.0
	SEM I 4	5,5	4	587	18.3
	SEM I 4	7,5	5.5	687	22.5
	SEM I 4	10	7.5	768	28.3

Specification of 6"-8"-10"

Motors

WATER FILLED ELECTRIC SUBMERSIBLE MOTORS OF THE REWINDABLE TYPE

- 6" range from 5,5HP to 50HP
- 8" range from 30HP to 125HP
- 10" range from 100HP to 250HP
- Full stainless steel motor versions available on request
- Customized winding at 380V, 400V / 50 Hz.

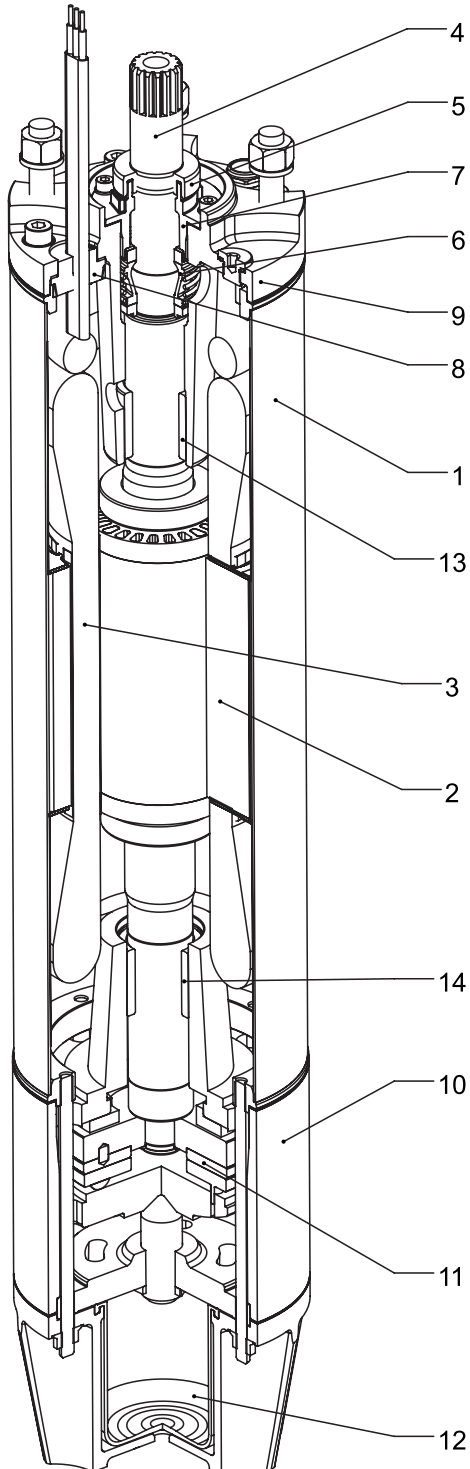
MAIN FEATURES 6 " - 8" - 10" MOTORS

- Motor protection: IP68
- Rewindable class F insulation
- Voltage tolerance: +/- 10%
- Winding: PP (Polypropylene) for temp. up to 80°C
- Cable: 3 core PVC Flat cable + separate earth cable
- Coolant liquid: water + antifreeze coolant (storage temp. until -15°C)
- Coupling: Nema standard for 6" and 8" - Specific connection design on request for 10"
- Rotation sense: bi-directional
- Starts per hour: 10
- Installation: vertical / horizontal
- Ready for VSD operation
- Winding for higher temp.: Pe2+Pa (on request)
- Thermal probe: PT100 thermal fitted inside (on request)

6" Submersible Motor

Material Data

SEM 6



No.	Part	Material
1	Stator casing	Stainless steel AISI 304
2	Stator	Electrical steel
3	Winding	PP
4	Rotor/shaft	Stainless steel AISI 431
5	Sand guard	SBR
6	Mechanical seal	Silicon carbide Silicon carbide
7	Mechanical seal housing	Polyamide
8	Cable sealing	NBR
9	Upper bracket	GG20 cast iron
10	Lower bracket	GG20 cast iron
11	Thrust bearing	Stainless steel Graphite compound
12	Diaphragm	SBR
13	Upper radial bearing	Graphite compound
14	Lower radial bearing	Graphite compound

6" Submersible Motor

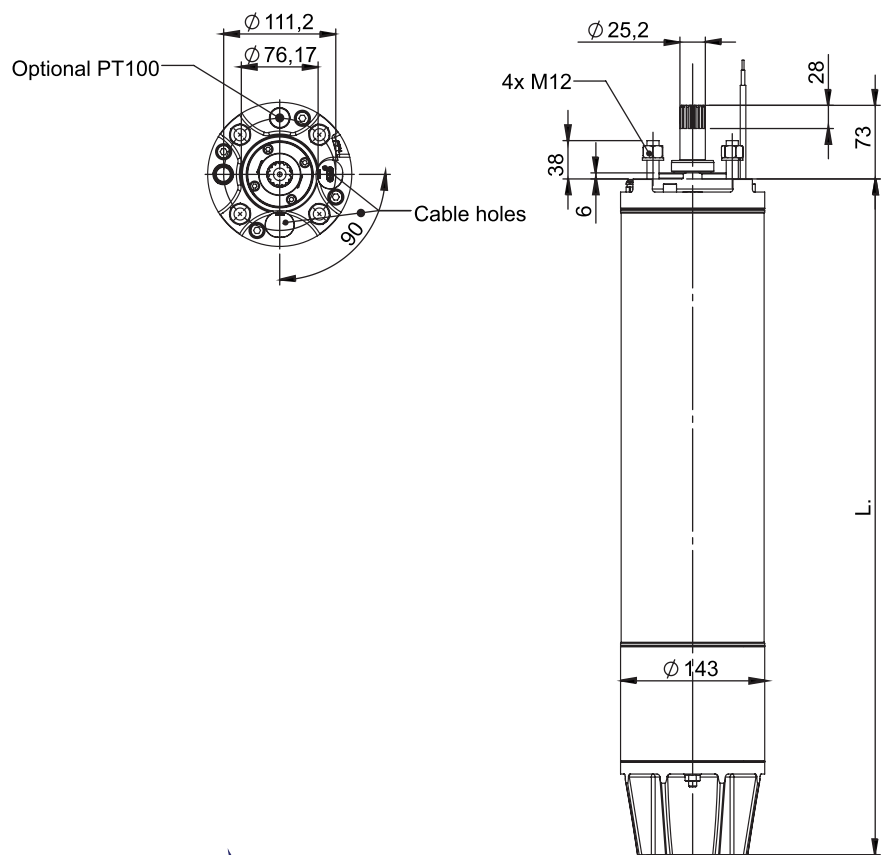
Motor data 50Hz

6" Motor Type		Nominal Power		Voltage	Efficiency		Power Factor (Cosφ)		I n Nominal Current	Ma/Mn	Ia/I n			Speed
		HP	kW	[V]	4/4	3/4	4/4	3/4	[A]		DOL	Y/D	Statoric	[rpm]
Three Phase 50Hz	SEM 65	5,5	4	380	74,7	76,9	0,80	0,735	10,2	1,3	3,5	1,15	2,45	2885
				400	74,8	75,9	0,75	0,66	9,8	1,4	3,5	1,15	2,45	2895
	SEM 67	7,5	5,5	380	77,5	78,9	0,795	0,725	13,6	1,9	4,0	1,30	2,8	2880
				400	77,2	78,2	0,75	0,665	13,1	2,1	4,0	1,35	2,8	2890
	SEM 610	10	7,5	380	78,6	80,5	0,82	0,76	17,7	1,4	5,1	1,7	3,55	2875
				400	78,4	80,8	0,77	0,70	17,0	1,6	5,1	1,7	3,6	2890
	SEM 612	12,5	9,2	380	79,8	81,9	0,82	0,77	21,4	1,4	5,0	1,65	3,5	2875
				400	80,2	80,9	0,77	0,70	20,8	1,6	4,9	1,65	3,45	2890
	SEM 615	15	11	380	80,7	82,7	0,82	0,77	25,3	1,6	5,4	1,8	3,75	2870
				400	80,7	82	0,77	0,71	24,4	1,8	5,4	1,8	3,8	2890
	SEM 617	17,5	13	380	79,1	80,7	0,82	0,76	30,4	1,3	4,6	1,55	3,2	2870
				400	79,3	79,9	0,765	0,69	29,3	1,4	4,6	1,55	3,25	2885
	SEM 620	20	15	380	80,1	82,5	0,825	0,76	34,5	1,5	5,0	1,65	3,5	2870
				400	80,1	81	0,775	0,70	33,6	1,7	5,0	1,65	3,5	2890
	SEM 625	25	18,5	380	81,8	83,4	0,805	0,735	42,6	1,4	4,7	1,55	3,3	2870
				400	81,9	83,5	0,75	0,67	41,0	1,6	4,7	1,55	3,3	2885
	SEM 630	30	22	380	81,4	82,3	0,82	0,75	50,0	1,8	5,0	1,65	3,5	2860
				400	81,9	82,5	0,77	0,695	48,2	2,0	5,0	1,65	3,5	2880
	SEM 635	35	26	380	83,2	84,5	0,81	0,75	58,6	1,5	4,8	1,6	3,35	2860
				400	83,4	84,6	0,76	0,685	58,6	1,7	4,8	1,6	3,35	2880
	SEM 640	40	30	380	83,3	84,8	0,795	0,73	68,8	2,0	5,7	1,9	4,0	2870
				400	83,3	85,2	0,745	0,655	66,3	2,2	5,7	1,9	4,0	2885
	SEM 650	50	37	380	82,1	84,3	0,81	0,74	84,5	2,4	6,0	2,0	4,2	2860
				400	82,4	83,4	0,76	0,675	81,5	2,7	6,0	2,0	4,2	2870

Ma=starting torque / Mn=nominal torque / Ia=starting current / In=nominal current

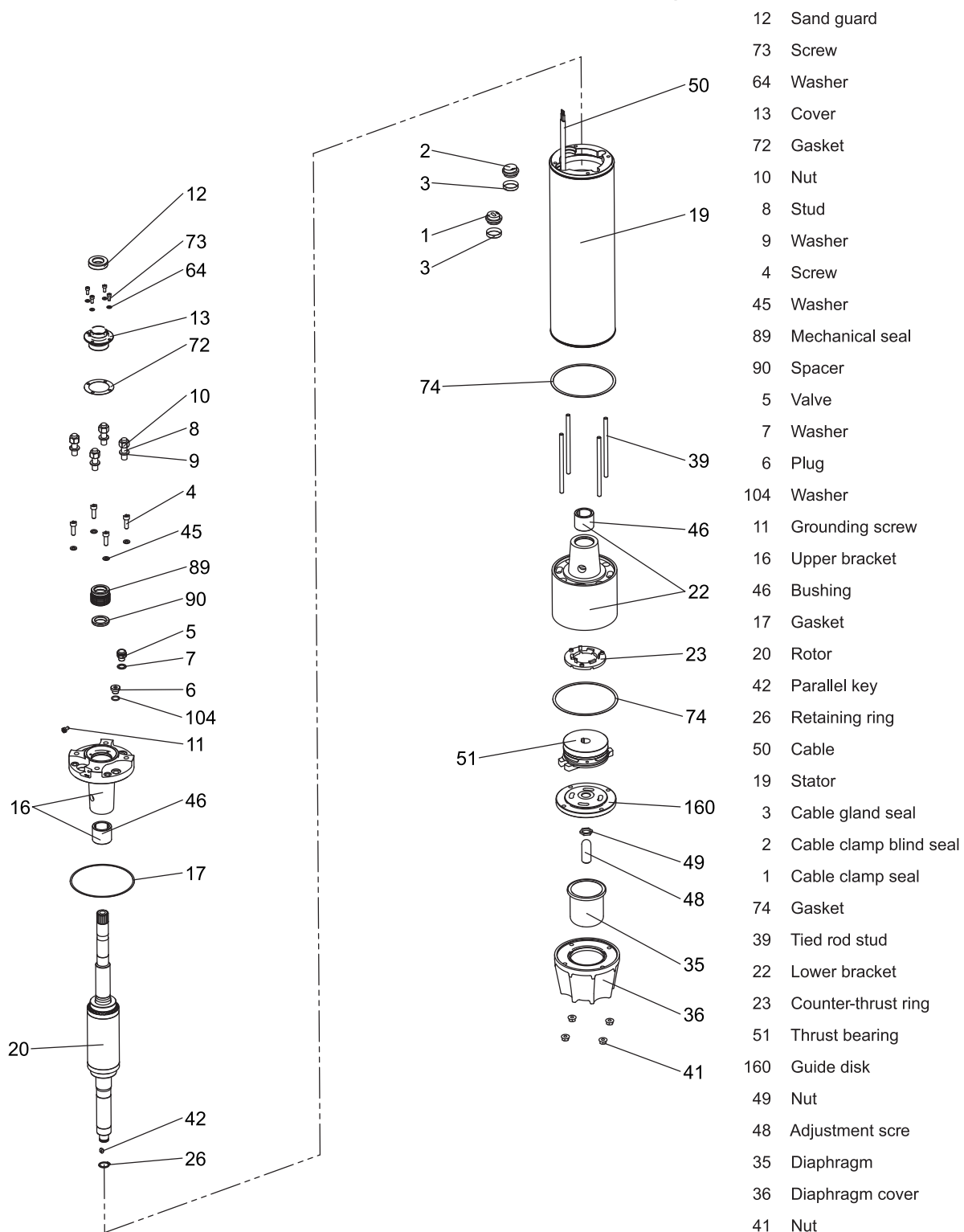
6" Submersible Motor

6" Motor Type	Nominal Power		Lenght	Weight	Diameter	Motor cable 380-400V		Cable lenght	Thrust load	Cooling Speed at 25°C / 30°C
	HP	kW	[mm]	[kg]	[mm]	DOL	Y/A	[m]	[KN]	m/sec
SEM 65	5,5	4	690	42,0	143	1x3x2,5	N.A.	3,5	22.000	0,2 /0,5
SEM 67	7,5	5,5	735	46,2			2x3x2,5			
SEM 610	10	7,5	780	51,2						
SEM 612	12,5	9,2	810	54,6						
SEM 615	15	11	840	56,8						
SEM 617	17,5	13	890	63,0						
SEM 620	20	15	930	67,2		1x3x4	2x3x4	4,5	28.000	
SEM 625	25	18,5	1015	76,0		1x3x6				
SEM 630	30	22	1060	80,9						
SEM 635	35	26	1165	91,6		1x3x10	2x3x6			
SEM 640	40	30	1275	103,0						
SEM 650	50	37	1365	113,0						



6" Submersible motor

Technical Drawing

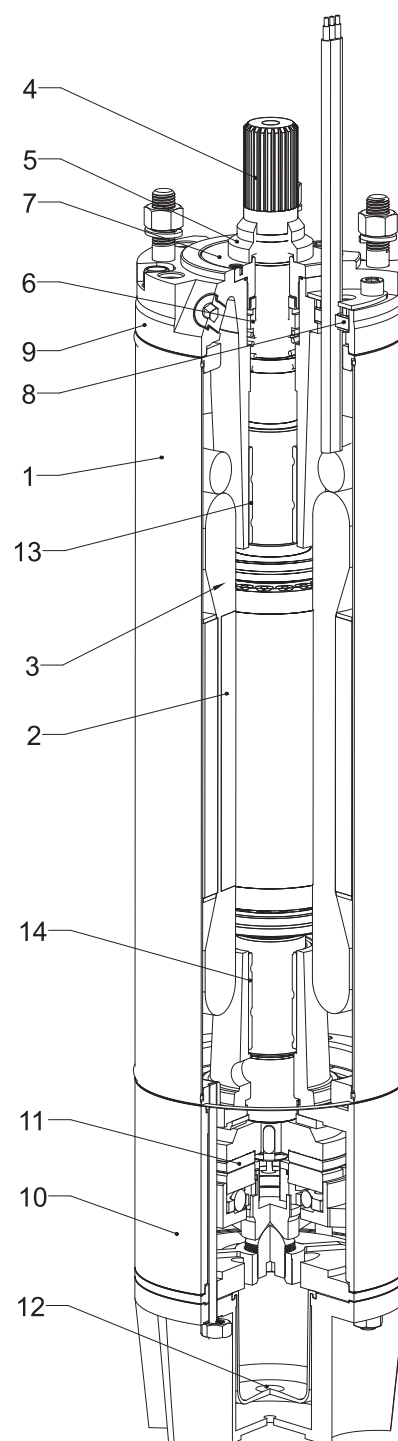


8"-10" Submersible Motor

Material Data

SEM 8 / SEM 10

No.	Part	Material
1	Stator casing	Stainless steel AISI 304
2	Stator	Electrical steel
3	Winding	PP
4	Rotor/shaft	Stainless steel AISI 420
5	Sand guard	SBR
6	Mechanical seal	Silicon carbide Silicon carbide
7	Mechanical seal housing	Stainless steel AISI 420
8	Cable sealing	NBR
9	Upper bracket	GG20 cast iron
10	Lower bracket	GG20 cast iron
11	Thrust bearing	Stainless steel Graphite compound
12	Diaphragm	SBR
13	Upper radial bearing	Graphite compound
14	Lower radial bearing	Graphite compound



8" Submersible Motor

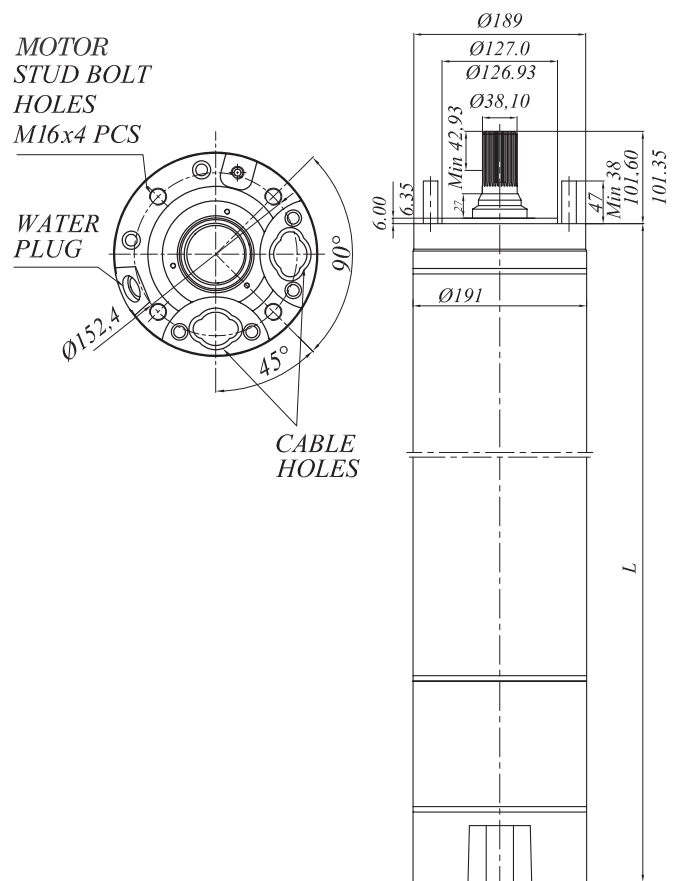
Motor data 50Hz

8" Motor Type		Nominal Power		Voltage	Efficiency		Power Factor (Cosφ)		I n Nominal Current	Ma/Mn	Ia/In			Speed
		HP	kW	[V]	4/4	3/4	4/4	3/4	[A]		DOL	Y/D	Statoric	[rpm]
Three Phase 50Hz	SEM 830	30	22	380	81,5	82,5	0,86	0,825	47,7	1,2	4,69	1,55	3,28	2875
				400	82	82	0,83	0,78	46,6	1,3	4,80	1,58	3,36	2885
	SEM 840	40	30	380	83	83,5	0,860	0,830	63,7	1,2	4,68	1,54	3,28	2872
				400	84	83,5	0,830	0,775	62,1	1,3	4,80	1,58	3,36	2885
	SEM 850	50	37	380	84,2	86,1	0,88	0,850	75,8	1,2	4,74	1,56	3,32	2860
				400	85,2	86,1	0,855	0,81	73,3	1,3	4,90	1,62	3,43	2880
	SEM 860	60	45	380	84,8	86,6	0,87	0,845	92,7	1,1	4,48	1,48	3,13	2857
				400	85,5	86,6	0,84	0,800	90,2	1,2	4,60	1,52	3,22	2875
	SEM 875	75	55	380	84,7	85	0,885	0,860	111,8	1,3	4,74	1,56	3,32	2846
				400	85,3	86,6	0,86	0,82	108,2	1,45	4,90	1,62	3,43	2865
	SEM 880	80	59	380	84,8	87,7	0,875	0,825	120,7	1,3	4,57	1,51	3,20	2871
				400	85,6	86,4	0,845	0,80	117,4	1,45	4,70	1,55	3,29	2886
	SEM 885	85	63	380	83,4	86,9	0,880	0,85	130,3	1,3	4,53	1,50	3,17	2830
				400	84,4	85,9	0,855	0,815	125,7	1,45	4,70	1,55	3,29	2850
	SEM 890	90	66	380	83,7	83,7	0,875	0,840	137,0	1,3	4,53	1,50	3,17	2860
				400	85	85	0,84	0,795	133,5	1,45	4,70	1,55	3,29	2880
	SEM 895	95	70	380	85,5	87,3	0,88	0,85	140,8	1,4	5,06	1,67	3,54	2853
				400	86,2	87,3	0,855	0,805	137,1	1,6	5,20	1,72	3,64	2870
	SEM 8100	100	75	380	86	87,9	0,875	0,845	151,5	1,4	5,07	1,67	3,55	2856
				400	86,7	88	0,845	0,79	147,6	1,6	5,20	1,72	3,64	2875
	SEM 8110	110	81	380	86,4	86,9	0,87	0,835	163,8	1,4	5,08	1,68	3,56	2868
				400	87	87	0,84	0,785	160	1,6	5,22	1,73	3,65	2880
	SEM 8125	125	92	380	86,3	86,2	0,870	0,835	186,0	1,4	5,08	1,68	3,55	2865
				400	87	87	0,84	0,785	181,6	1,6	5,22	1,73	3,65	2880

Ma=starting torque / Mn=nominal torque / Ia=starting current / In=nominal current

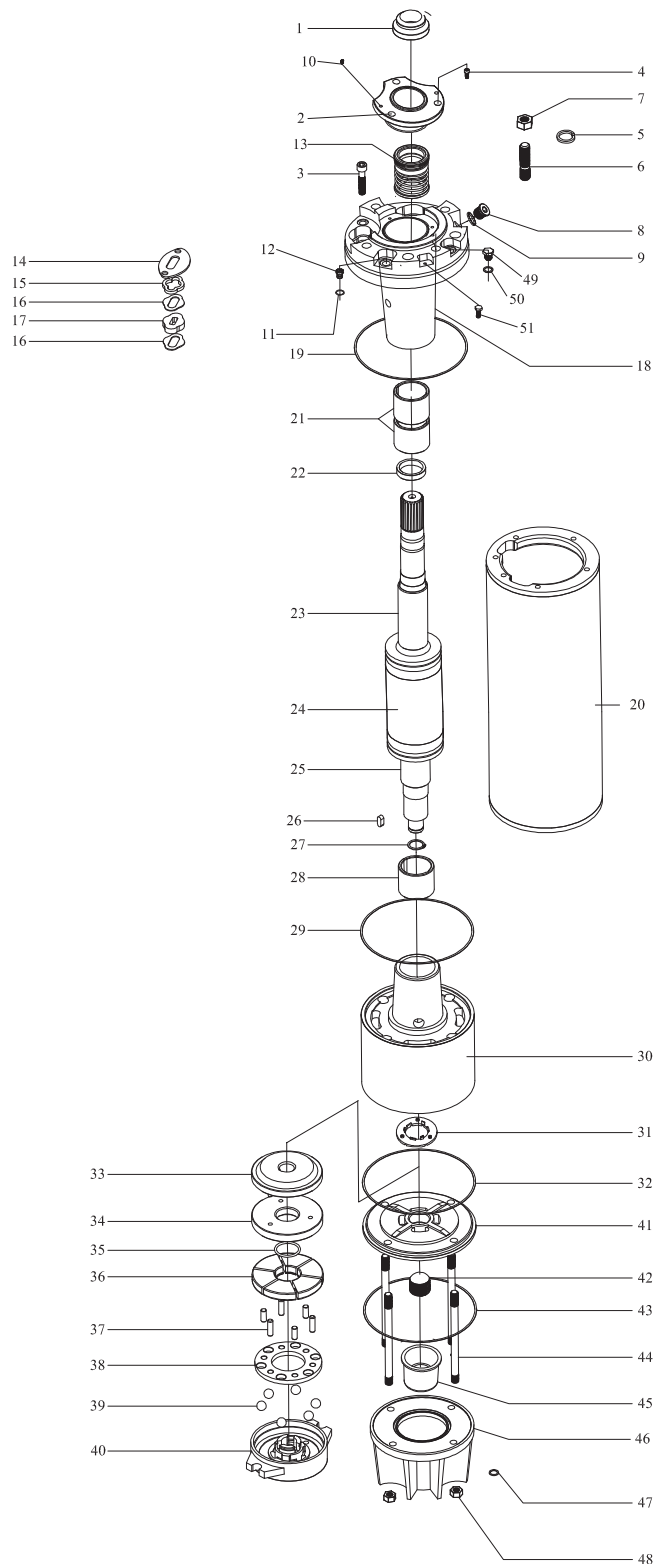
8" Submersible Motor

8” Motor Type	Nominal Power		Lenght	Weight	Diameter	Motor cable 380-400V		Cable lenght	Thrust load	Cooling Speed at 25°C / 30°C
	HP	kW	[mm]	[kg]	[mm]	DOL	Y/A	[m]	[KN]	m/sec
SEM 830	30	22	896	117	191	1x3x10	2x3x6	4	55,000	0,5
SEM 840	40	30	956	133			1x3x16			
SEM 850	50	37	1026	146						
SEM 860	60	45	1076	155						
SEM 875	75	55	1156	170						
SEM 880	80	59	1166	175						
SEM 885	85	63	1196	179		1x3x25	2x3x16			
SEM 890	90	66	1266	194						
SEM 895	95	70	1296	196						
SEM 8100	100	75	1336	206						
SEM 8110	110	81	1426	223						
SEM 8125	125	92	1536	243		N.A.				



8" Submersible Motor

Technical Drawing



- 1 Sand guard
- 2 Mechanical seal housing
- 3 Screw
- 4 Screw
- 5 Washer
- 6 Stud
- 7 Nut
- 8 Water plug
- 9 O-ring
- 10 Dowel
- 11 Gasket
- 12 Valve
- 13 Mechanical seal
- 14 Cable clamp flange
- 15 Cable clamp plastic
- 16 Cable clamp washer
- 17 Cable clamp seal
- 18 Upper bracket
- 19 Gasket
- 20 Stator casing
- 21 Bushing
- 22 Mechanical seal ring
- 23 Chrome bush
- 24 Rotor
- 25 Chrome bush
- 26 Key
- 27 Circlip
- 28 Bushing
- 29 Gasket
- 30 Lower bracket
- 31 Counter thrust ring
- 32 Gasket
- 33 Disc
- 34 Disc holder
- 35 Oring
- 36 Segment
- 37 Pin
- 38 Bearing support
- 39 Bearing ball
- 40 Bearing box
- 41 Adjustment cover
- 42 Adjustment screw
- 43 Gasket
- 44 Stud
- 45 Diaphragm
- 46 Diaphragm cover
- 47 Washer
- 48 Nut
- 49 PT100 plug
- 50 Gasket
- 51 Earthing screw

10" Submersible Motor

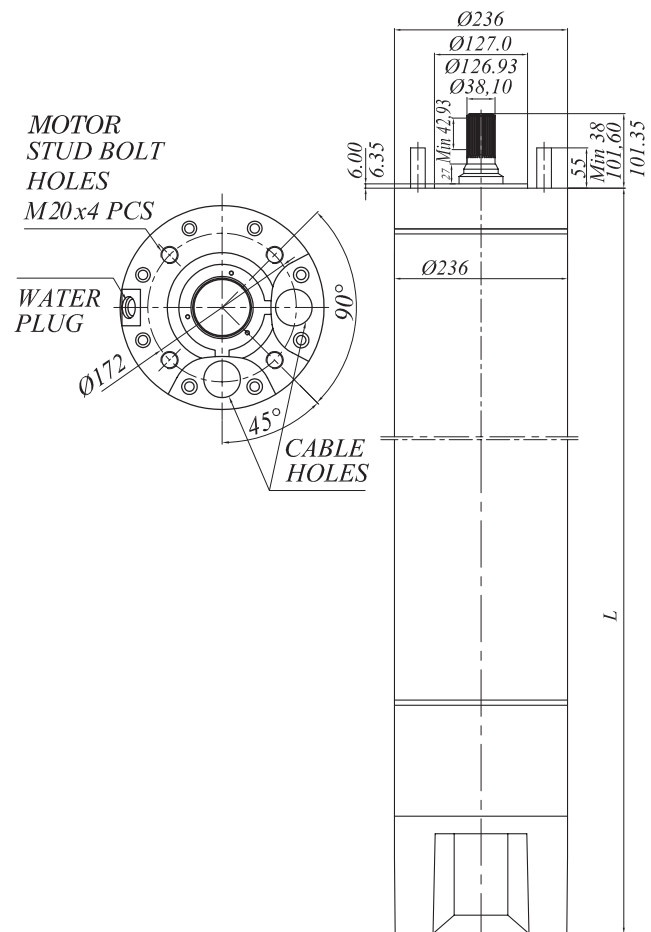
Motor data 50Hz

10" Motor Type		Nominal Power		Voltage	Efficiency		Power Factor (Cosφ)		I n Nominal Current	Ma/Mn	Ia/In			Speed
		HP	kW	[V]	4/4	3/4	4/4	3/4	[A]		DOL	Y/D	Statoric	[rpm]
Three Phase 50Hz	SEM 10100	100	75	380	83,6	85,2	0,865	0,860	157,3	1,35	4,60	1,51	3,20	2894
				400	84,5	85,5	0,855	0,830	150	1,5	4,80	1,58	3,36	2905
	SEM 10110	110	81	380	83,1	84,4	0,870	0,860	170,4	1,35	4,60	1,52	3,21	2897
				400	83,7	84,4	0,855	0,835	163	1,5	4,80	1,58	3,36	2910
	SEM 10125	125	92	380	82,7	84,3	0,875	0,870	193,3	1,26	4,80	1,57	3,34	2882
				400	83,6	84,5	0,860	0,840	184,3	1,4	5,00	1,65	3,50	2900
	SEM 10150	150	110	380	84,6	85,8	0,875	0,855	226,1	1,8	6,10	2,01	4,27	2897
				400	85,2	86	0,855	0,820	218	2	6,33	2,09	4,43	2910
	SEM 10175	175	129	380	85,9	86,7	0,880	0,860	261,6	1,35	5,70	1,89	4,01	2914
				400	86,4	86,7	0,860	0,830	252,4	1,5	5,95	1,96	4,16	2925
	SEM 10200	200	147	380	86,2	87,4	0,880	0,860	301,0	1,45	5,80	1,91	4,05	2911
				400	86	86	0,850	0,820	291	1,6	5,98	1,97	4,19	2920
	SEM 10225	225	165	380	87,3	88,4	0,870	0,845	330,2	1,5	6,03	1,99	4,22	2916
				400	87,8	88,3	0,840	0,805	321,0	1,65	6,20	2,05	4,34	2925
	SEM 101250	250	185	380	86,8	87,9	0,880	0,860	368,5	1,7	6,50	2,14	4,54	2914
				400	87,4	88,1	0,860	0,820	357	1,9	6,70	2,21	4,69	2925

Ma=starting torque / Mn=nominal torque / Ia=starting current / In=nominal current

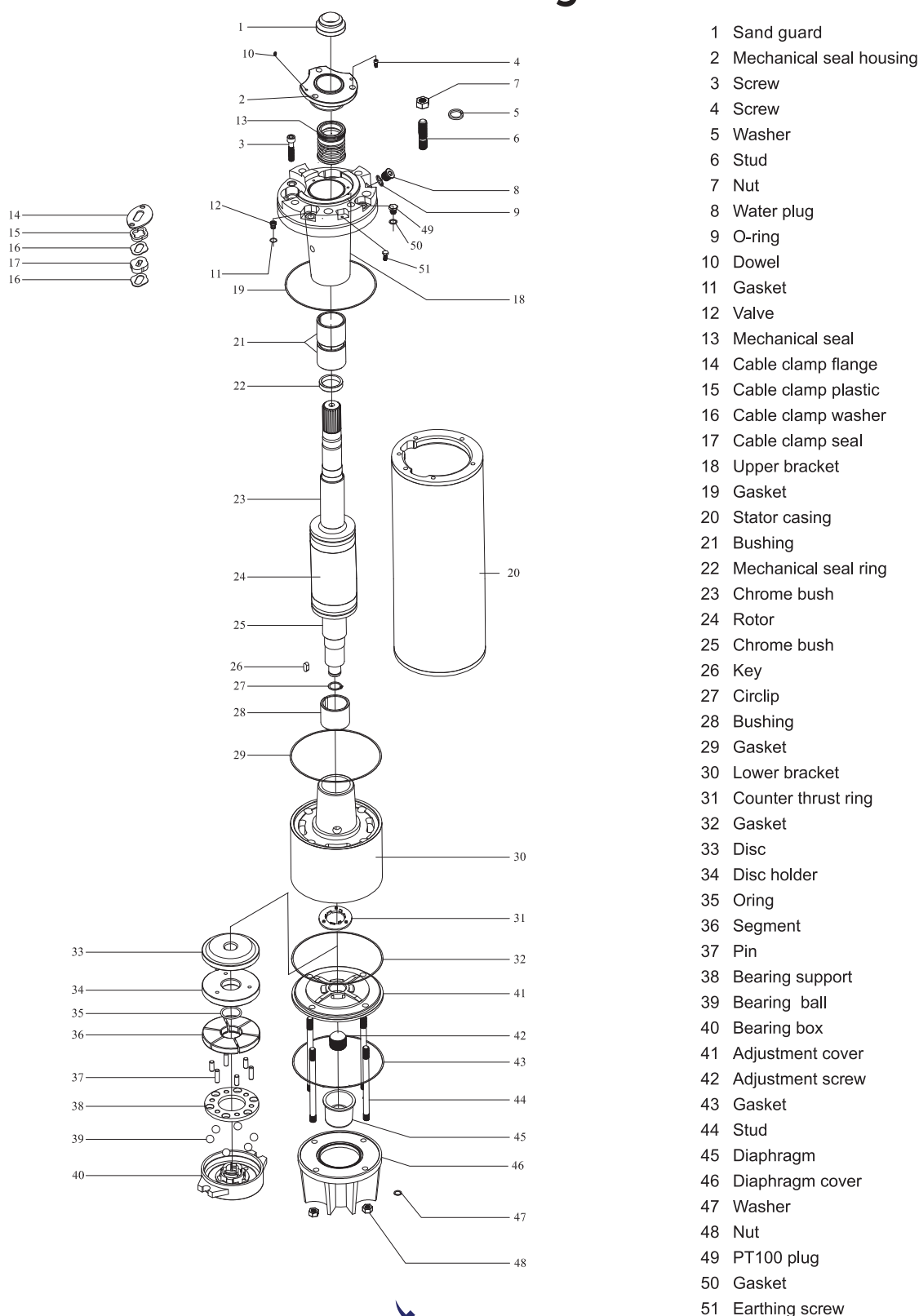
10" Submersible Motor

8" Motor Type	Nominal Power		Lenght	Weight	Diameter	Motor cable 380-400V		Cable lenght	Thrust load	Cooling Speed at 25°C / 30°C
	HP	kW	[mm]	[kg]	[mm]	DOL	Y/A	[m]	[KN]	m/sec
SEM 10100	100	75	1226	242	236	1x3x25	2x3x16	4	65.000	0,5
SEM 10110	110	81	1266	263		1x3x35				
SEM 10125	125	92	1316	277		N.A.	2x3x25			
SEM 10150	150	110	1446	317			2x3x35			
SEM 10175	175	129	1546	345						
SEM 10200	200	147	1736	368						
SEM 10225	225	165	1856	412						
SEM 10250	250	185	1956	442						



10" Submersible Motor

Technical Drawing



SPARE PARTS

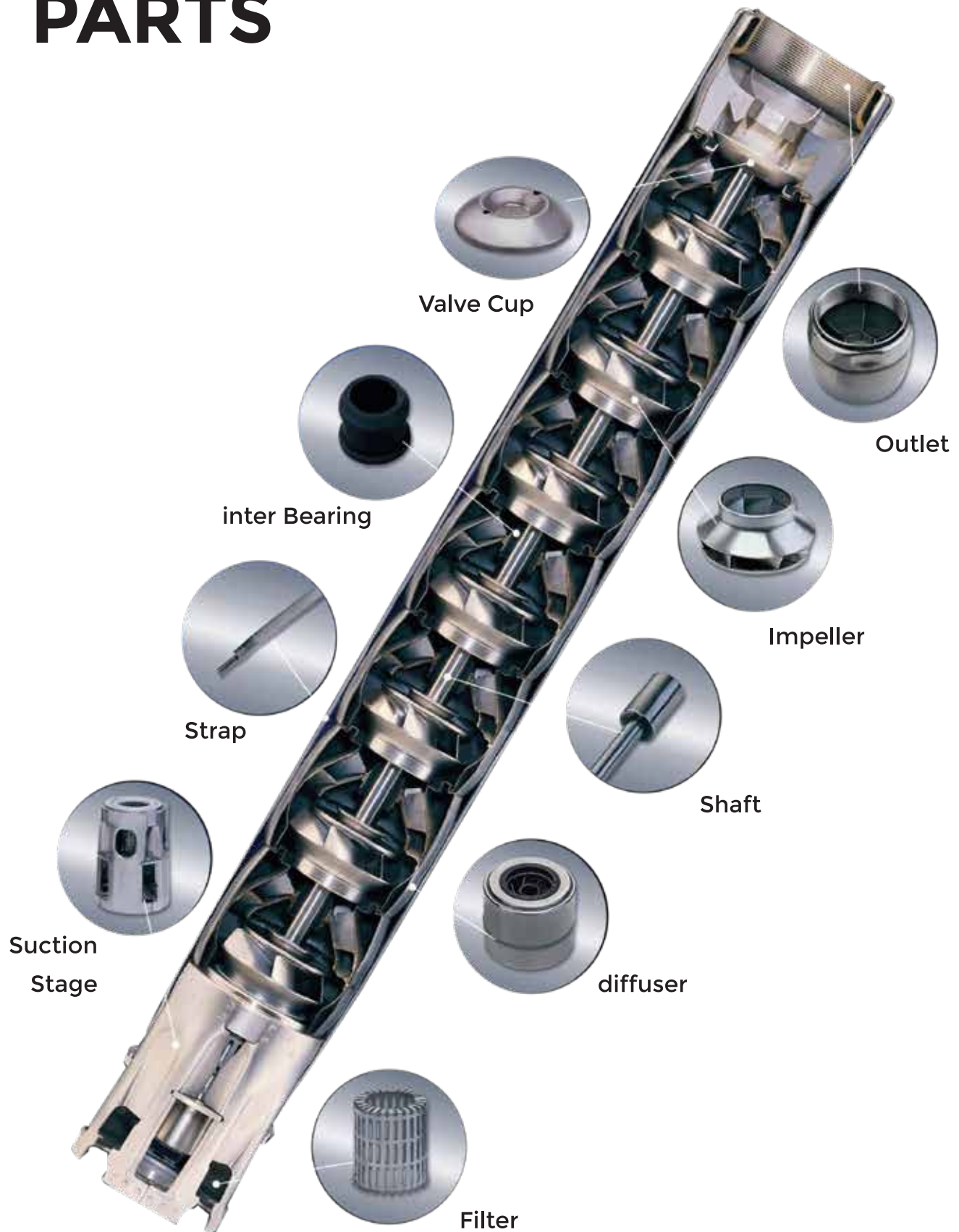


Table of head losses

Head losses in ordinary water pipes

Upper figures indicate the velocity of water in m/sec.

Lower figures indicate head loss in metres per 100 metres of straight pipes.

Quantity of water			Head losses in ordinary water pipes											
m ³ /h	Litres/min.	Litres/sec.	Nominal pipe diameter in inches and internal diameter in [mm]											
			1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"
			15.75	21.25	27.00	35.75	41.25	52.50	68.00	80.25	92.50	105.0	130.0	155.5
0.6	10	0.16	0.855 9.910	0.470 2.407	0.292 0.784									
0.9	15	0.25	1.282 20.11	0.705 4.862	0.438 1.570	0.249 0.416								
1.2	20	0.33	1.710 33.53	0.940 8.035	0.584 2.588	0.331 0.677	0.249 0.346							
1.5	25	0.42	2.138 49.93	1.174 11.91	0.730 3.834	0.415 1.004	0.312 0.510							
1.8	30	0.50	2.565 69.34	1.409 16.50	0.876 5.277	0.498 1.379	0.374 0.700	0.231 0.223						
2.1	35	0.58	2.993 91.54	1.644 21.75	1.022 6.949	0.581 1.811	0.436 0.914	0.269 0.291						
2.4	40	0.67		1.879 27.66	1.168 8.820	0.664 2.290	0.499 1.160	0.308 0.368						
3.0	50	0.83		2.349 41.40	1.460 13.14	0.830 3.403	0.623 1.719	0.385 0.544	0.229 0.159					
3.6	60	1.00		2.819 57.74	1.751 18.28	0.996 4.718	0.748 2.375	0.462 0.751	0.275 0.218					
4.2	70	1.12		3.288 76.49	2.043 24.18	1.162 6.231	0.873 3.132	0.539 0.988	0.321 0.287	0.231 0.131				
4.8	80	1.33			2.335 30.87	1.328 7.940	0.997 3.988	0.616 1.254	0.367 0.363	0.263 0.164				
5.4	90	1.50			2.627 38.30	1.494 9.828	1.122 4.927	0.693 1.551	0.413 0.449	0.269 0.203				
6.0	100	1.67			2.919 46.49	1.660 11.90	1.247 5.972	0.770 1.875	0.459 0.542	0.329 0.244	0.248 0.124			
7.5	125	2.08			3.649 70.41	2.075 17.93	1.558 8.967	0.962 2.802	0.574 0.809	0.412 0.365	0.310 0.185	0.241 0.101		
9.0	150	2.50				2.490 25.11	1.870 12.53	1.154 3.903	0.668 1.124	0.494 0.506	0.372 0.256	0.289 0.140		
10.5	175	2.92				2.904 33.32	2.182 16.66	1.347 5.179	0.803 1.488	0.576 0.670	0.434 0.338	0.337 0.184		
12	200	3.33				3.319 42.75	2.493 21.36	1.539 6.624	0.918 1.901	0.659 0.855	0.496 0.431	0.385 0.234	0.251 0.084	
15	250	4.17				4.149 64.86	3.117 32.32	1.924 10.03	1.147 2.860	0.823 1.282	0.620 0.646	0.481 0.350	0.314 0.126	
18	300	5.00					3.740 45.52	2.309 14.04	1.377 4.009	0.988 1.792	0.744 0.903	0.577 0.488	0.377 0.175	0.263 0.074
24	400	6.67					4.987 78.17	3.078 24.04	1.836 6.828	1.317 3.053	0.992 1.530	0.770 0.829	0.502 0.294	0.351 0.124
30	500	8.33						3.848 36.71	2.295 10.40	1.647 4.622	1.240 2.315	0.962 1.254	0.628 0.445	0.439 0.187
36	600	10.0						4.618 51.84	2.753 14.62	1.976 6.505	1.488 3.261	1.155 1.757	0.753 0.623	0.526 0.260
42	700	11.7							3.212 19.52	2.306 8.693	1.736 4.356	1.347 2.345	0.879 0.831	0.614 0.347
48	800	13.3							3.671 25.20	2.635 11.18	1.984 5.582	1.540 3.009	1.005 1.066	0.702 0.445
54	900	15.0							4.130 31.51	2.964 13.97	2.232 6.983	1.732 3.762	1.130 1.328	0.790 0.555
60	1000	16.7							4.589 38.43	3.294 17.06	2.480 8.521	1.925 4.595	1.256 1.616	0.877 0.674
75	1250	20.8								4.117 26.10	3.100 13.00	2.406 7.010	1.570 2.458	1.097 1.027
90	1500	25.0								4.941 36.97	3.720 18.42	2.887 9.892	1.883 3.468	1.316 1.444
105	1750	29.2									4.340 24.76	3.368 13.30	2.197 4.665	1.535 1.934
120	2000	33.3										4.960 31.94	3.850 17.16	1.754 5.995
150	2500	41.7											4.812 26.26	2.193 9.216
180	3000	50.0												3.767 13.05
240	4000	66.7												5.023 22.72
300	5000	83.3												4.386 14.42
90° bends, slide valves			1.0	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.6	1.7	2.0	2.5
T-pieces, non-return valves			4.0	4.0	4.0	5.0	5.0	5.0	6.0	6.0	6.0	7.0	8.0	9.0

The table is calculated in accordance with H. Lang's new formula $a = 0.02$ and for a water temperature of 10 °C.

The head loss in bends, slide valves, T-pieces and non-return valves is equivalent to the metres of straight pipes stated in the last two lines of the table.

To find the head loss in foot valves, multiply the loss in T-pieces by two.

Head losses in plastic pipes

Upper figures indicate the velocity of water in m/sec.

Lower figures indicate head loss in metres per 100 metres of straight pipes.

Quantity of water			PELM/PEH PN 10											
m ³ /h	Litres/min.	Litres/sec.	PELM						PEH					
			25	32	40	50	63	75	90	110	125	140	160	180
			20.4	26.2	32.6	40.8	51.4	61.4	73.6	90.0	102.2	114.6	130.8	147.2
0.6	10	0.16	0.49 1.8	0.30 0.66	0.19 0.27	0.12 0.085								
0.9	15	0.25	0.76 4.0	0.46 1.14	0.3 0.6	0.19 0.18	0.12 0.63							
1.2	20	0.33	1.0 6.4	0.61 2.2	0.39 0.9	0.25 0.28	0.16 0.11							
1.5	25	0.42	1.3 10.0	0.78 3.5	0.5 1.4	0.32 0.43	0.2 0.17	0.14 0.074						
1.8	30	0.50	1.53 13.0	0.93 4.6	0.6 1.9	0.38 0.57	0.24 0.22	0.17 0.092						
2.1	35	0.58	1.77 16.0	1.08 6.0	0.69 2.0	0.44 0.70	0.28 0.27	0.2 0.12						
2.4	40	0.67	2.05 22.0	1.24 7.5	0.80 3.3	0.51 0.93	0.32 0.35	0.23 0.16	0.16 0.063					
3.0	50	0.83	2.54 37.0	1.54 11.0	0.99 4.8	0.63 1.40	0.4 0.50	0.28 0.22	0.2 0.09					
3.6	60	1.00	3.06 43.0	1.85 15.0	1.2 6.5	0.76 1.90	0.48 0.70	0.34 0.32	0.24 0.13	0.16 0.050				
4.2	70	1.12	3.43 50.0	2.08 18.0	1.34 8.0	0.86 2.50	0.54 0.83	0.38 0.38	0.26 0.17	0.18 0.068				
4.8	80	1.33		2.47 25.0	1.59 10.5	1.02 3.00	0.64 1.20	0.45 0.50	0.31 0.22	0.2 0.084				
5.4	90	1.50		2.78 30.0	1.8 12.0	1.15 3.50	0.72 1.30	0.51 0.57	0.35 0.26	0.24 0.092	0.18 0.05			
6.0	100	1.67		3.1 39.0	2.0 16.0	1.28 4.6	0.8 1.80	0.56 0.73	0.39 0.30	0.26 0.12	0.2 0.07			
7.5	125	2.08		3.86 50.0	2.49 24.0	1.59 6.6	1.00 2.50	0.70 1.10	0.49 0.50	0.33 0.18	0.25 0.10	0.20 0.055		
9.0	150	2.50			3.00 33.0	1.91 8.6	1.20 3.5	0.84 1.40	0.59 0.63	0.39 0.24	0.30 0.13	0.24 0.075		
10.5	175	2.92			3.5 38.0	2.23 11.0	1.41 4.3	0.99 1.80	0.69 0.78	0.46 0.30	0.36 0.18	0.28 0.09		
12	200	3.33			3.99 50.0	2.55 14.0	1.60 5.5	1.12 2.40	0.78 1.0	0.52 0.40	0.41 0.22	0.32 0.12	0.25 0.065	
15	250	4.17				3.19 21.0	2.01 8.0	1.41 3.70	0.98 1.50	0.66 0.57	0.51 0.34	0.40 0.18	0.31 0.105	0.25 0.06
18	300	5.00				3.82 28.0	2.41 10.5	1.69 4.60	1.18 1.95	0.78 0.77	0.61 0.45	0.48 0.25	0.37 0.13	0.29 0.085
24	400	6.67					3.21 19.0	2.25 8.0	1.57 3.60	1.05 1.40	0.81 0.78	0.65 0.44	0.50 0.23	0.39 0.15
30	500	8.33					4.01 28.0	2.81 11.5	1.96 5.0	1.31 2.0	1.02 1.20	0.81 0.63	0.62 0.33	0.49 0.21
36	600	10.0					4.82 37.0	3.38 15.0	2.35 6.6	1.57 2.60	1.22 1.50	0.97 0.82	0.74 0.45	0.59 0.28
42	700	11.7					5.64 47.0	3.95 24.0	2.75 8.0	1.84 3.50	1.43 1.90	1.13 1.10	0.87 0.60	0.69 0.40
48	800	13.3						4.49 26.0	3.13 11.0	2.09 4.5	1.62 2.60	1.29 1.40	0.99 0.81	0.78 0.48
54	900	15.0						5.07 33.0	3.53 13.5	2.36 5.5	1.83 3.20	1.45 1.70	1.12 0.95	0.08 0.58
60	1000	16.7						5.64 40.0	3.93 16.0	2.63 6.7	2.04 3.90	1.62 2.2	1.24 1.2	0.96 0.75
75	1250	20.8							4.89 25.0	3.27 9.0	2.54 5.0	2.02 3.0	1.55 1.6	1.22 0.95
90	1500	25.0							5.88 33.0	3.93 13.0	3.05 8.0	2.42 4.1	1.86 2.3	1.47 1.40
105	1750	29.2							6.86 44.0	4.59 17.5	3.56 9.7	2.83 5.7	2.17 3.2	1.72 1.9
120	2000	33.3								5.23 23.0	4.06 13.0	3.23 7.0	2.48 4.0	1.96 2.4
150	2500	41.7								6.55 34.0	5.08 18.0	4.04 10.5	3.10 6.0	2.45 3.5
180	3000	50.0								7.86 45.0	6.1 27.0	4.85 14.0	3.72 7.6	2.94 4.4
240	4000	66.7									8.13 43.0	6.47 24.0	4.96 13.0	3.92 7.5
300	5000	83.3										8.08 33.0	6.2 18.0	4.89 11.0

The table is based on a nomogram.

Roughness: K = 0.01 mm.

Water temperature: t = 10 °C.

CABLE SELECTION TABLE

Maximum Lengths in Meters (m) for 400V/50Hz, 5% Voltage Drop, 30°C Ambient Temperature
IEC Publication 364-5-523 (1983) Table 52-B1

DIRECTONLINE(DOL)

Motor Power		Cable Size mm ² , Copper Wire, Rated Insulation at 70°C															
KW	HP	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400
4	5,5	180	290	430	710												
5,5	7,5	130	210	320	530	830											
7,5	10	90	150	230	390	610	940										
9,3	12,5	80	130	190	320	510	770										
11	15	60	100	160	270	430	650	890									
13	17,5		90	140	230	370	560	770									
15	20		80	120	200	320	490	680	920								
18,5	25			100	160	260	400	540	740	980							
22	30				140	220	340	470	630	840							
26	35				120	190	290	390	540	720	920						
30	40					160	250	340	470	620	790	940					
37	50					130*	200	280	380	500	640	760	890	1020			
45	60						170	240	330	440	570	690	810	940			
52	70						150*	210	290	390	500	600	710	820	980		
55	75						140*	190	270	360	470	560	660	770	910		
60	80							180	250	340	440	530	630	730	870	1010	
67	90							160*	220	300	390	460	550	630	750	860	1000
75	100								200*	270	350	420	490	570	680	780	910
83	111								180*	250	320	390	450	530	630	730	850
85	114									230	290	350	410	480	570	650	750
93	125									220*	280	340	390	460	550	620	720
110	150										220	270	310	360	420	480	550
130	175										200*	240	280	330	390	440	520
150	200											200*	240	280	330	380	440
185	250													210*	250	280	330

STAR-DELTA(YΔ)

Motor Power		Cable Size mm ² , Copper Wire, Rated Insulation at 70°C															
KW	HP	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400
4	5,5	270	430	640													
5,5	7,5	190	310	480	790												
7,5	10	130	220	340	580	910											
9,3	12,5	120	190	280	480	760											
11	15	90	150	240	400	640	970										
13	17,5	70	130	210	340	550	840										
15	20	70	120	180	300	480	730	1020									
18,5	25	60	90	150	240	390	600	810									
22	30		70	120	210	330	510	700	940								
26	35		60*	100	180	280	430	580	810								
30	40			90	150	240	370	510	700	930							
37	50				120	190	300	420	570	750	960						
45	60				100	160	250	360	490	660	850						
52	70				90*	150	220	310	430	580	750	900					
55	75					130	210	280	400	540	700	840	990				
60	80					120	190	270	370	510	660	790	940				
67	90					100	180	240	330	450	580	690	820	940			
75	100					90*	150	210	300	400	520	630	730	850	1020		
83	111						130	190	270	370	480	580	670	790	940		
85	114						130*	180	250	340	430	520	610	720	850	970	
93	125						120*	160	240	330	420	510	580	690	820	930	
110	150							130*	190	250	330	400	460	540	630	720	820
130	175								160*	220	300	360	420	490	580	660	780
150	200								150*	190	250	300	360	420	490	570	660
185	250										190*	240	270	310	370	420	490

* For Individual Contactor