

# SUTEKSAN

## EGYPT



# 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

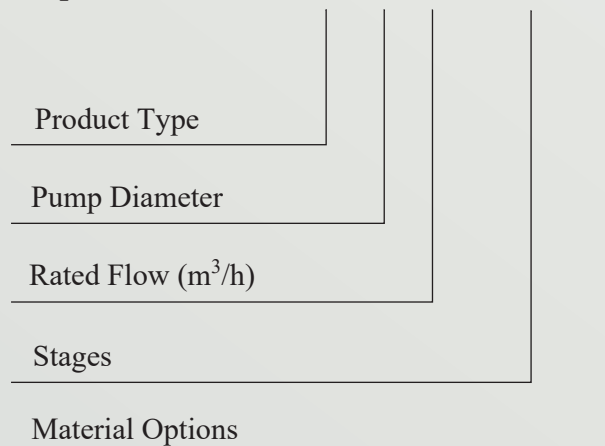


<b>MODEL</b>	<b>SEP 8160 / 03 K</b>		
<b>H - M</b>	<b>59 - 35</b>		
<b>Q - m<sup>3</sup>/h</b>	<b>140 - 200</b>		
<b>HP</b>	<b>50</b>	<b>KW</b>	<b>37</b>
<b>Frequency</b>	<b>50 Hz</b>		
<b>Speed</b>	<b>2900 rpm</b>		
<b>S.N.</b>	<b>20XXXXXX-56XXX</b>		

**STAINLESS STEEL SUBMERSIBLE PUMP**

**MADE IN EGYPT** **CE**

Example ——— SEP 8-160 / 03 - K



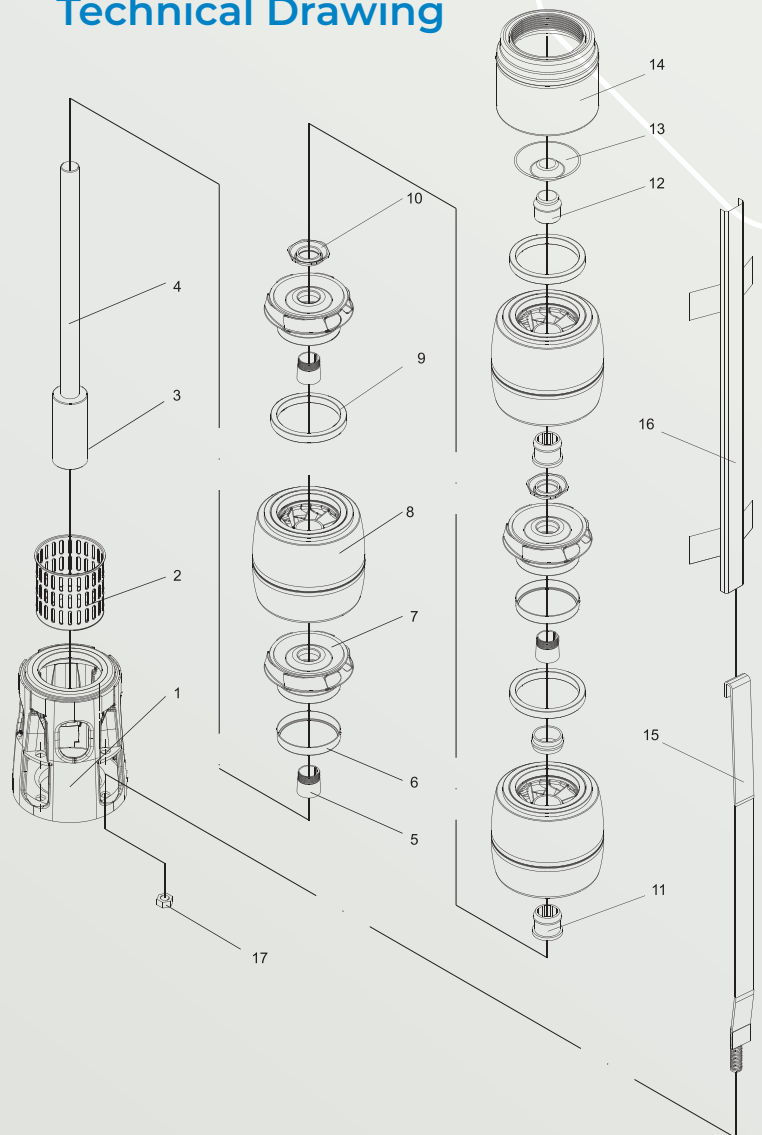
# Material Data

## 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

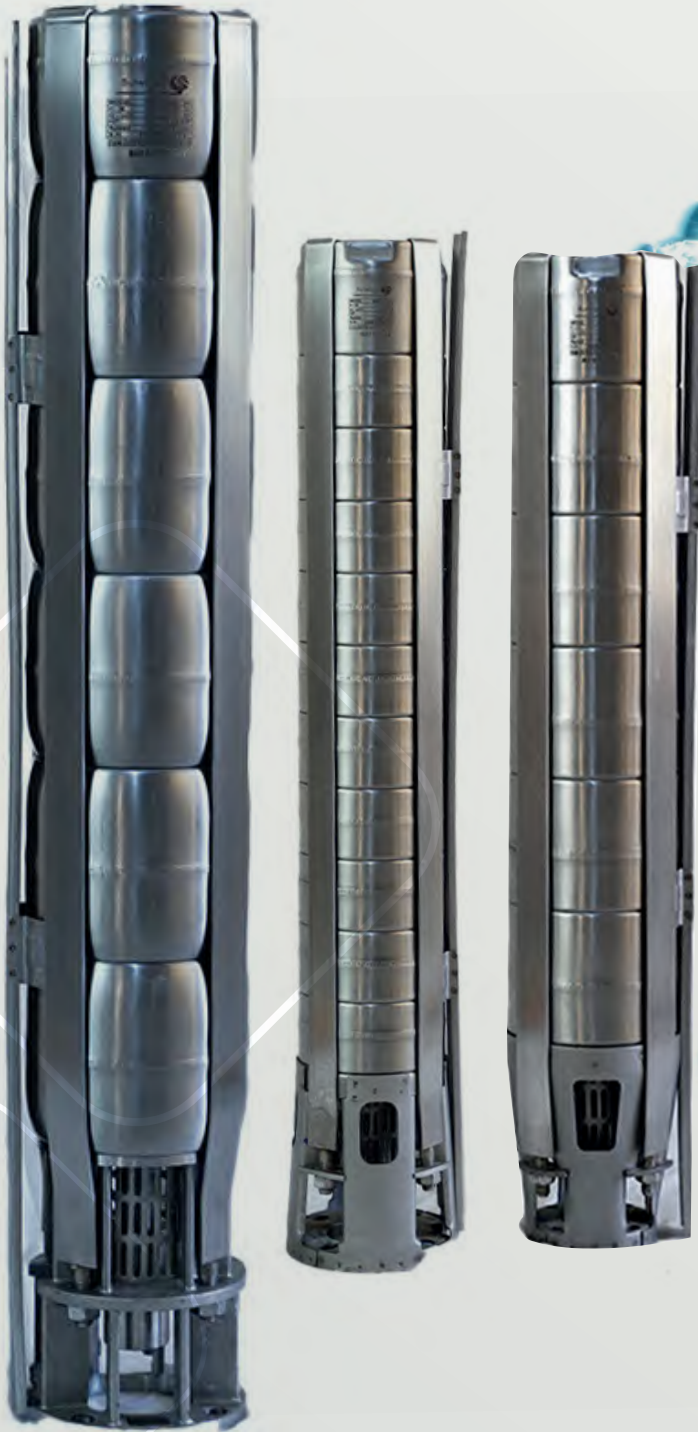
N°	Part Name	Material
10	Nut For Impeller Lock	Stainless Steel (AISI 304L)
11	Shaft Bearing	Rubber
12	Shaft Stopper	Stainless Steel (AISI 304L)
13	Valve	Stainless Steel (AISI 304L)
14	Outlet	Stainless Steel (AISI 304L)
15	Strap	Stainless Steel (AISI 304L)
16	Cable Guard	Stainless Steel (AISI 304L)
17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

## Technical Drawing





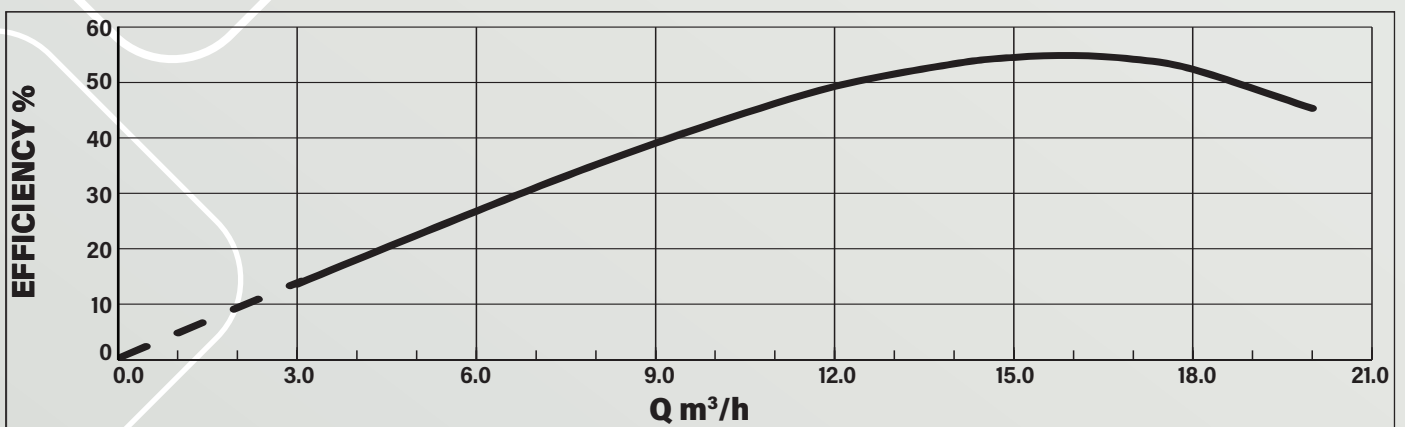
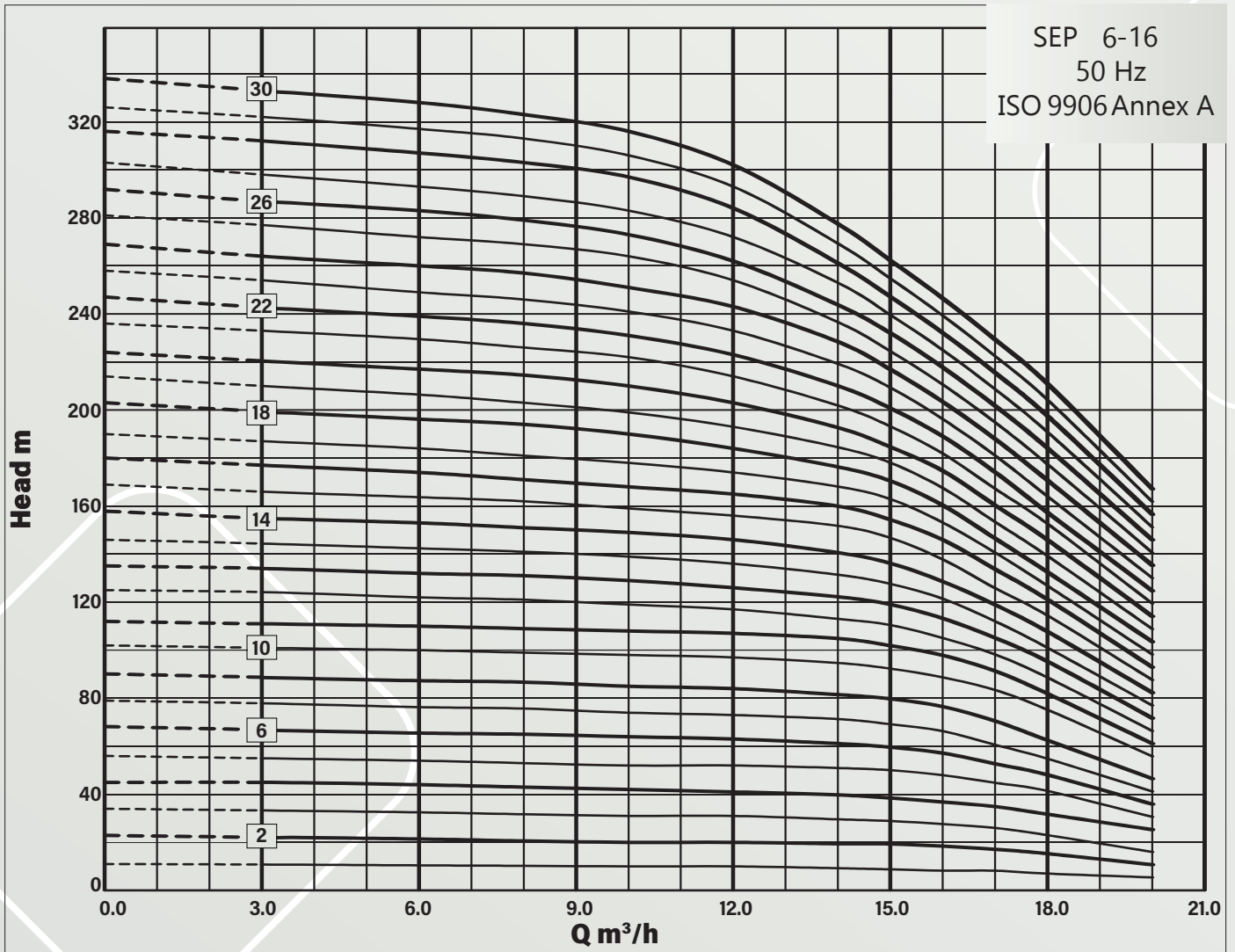
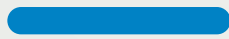
# SEP 6" Pump Series



# STAINLESS STEEL SUBMERSIBLE SEP 6-16 SERIES

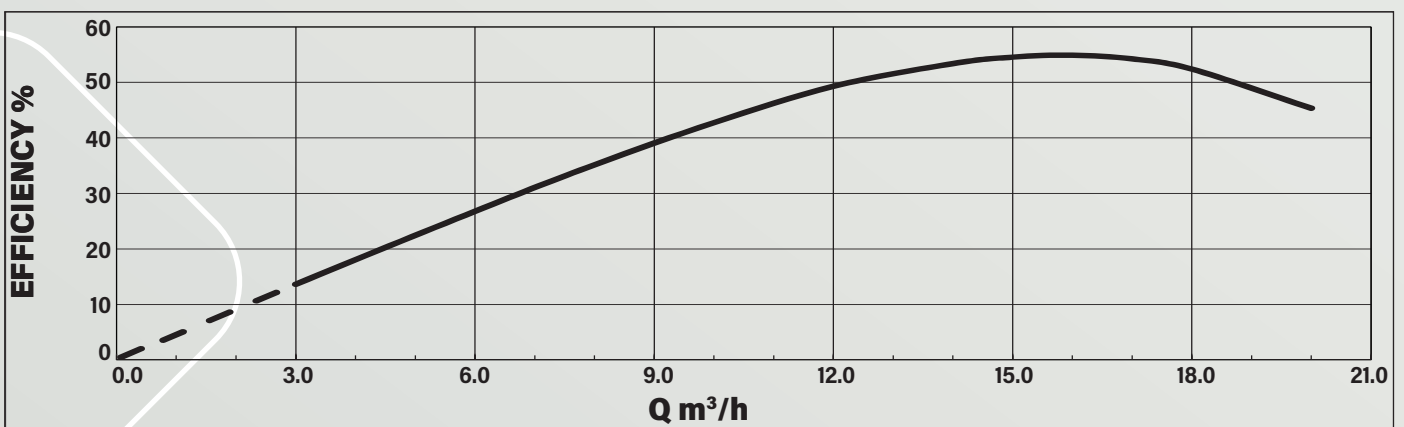
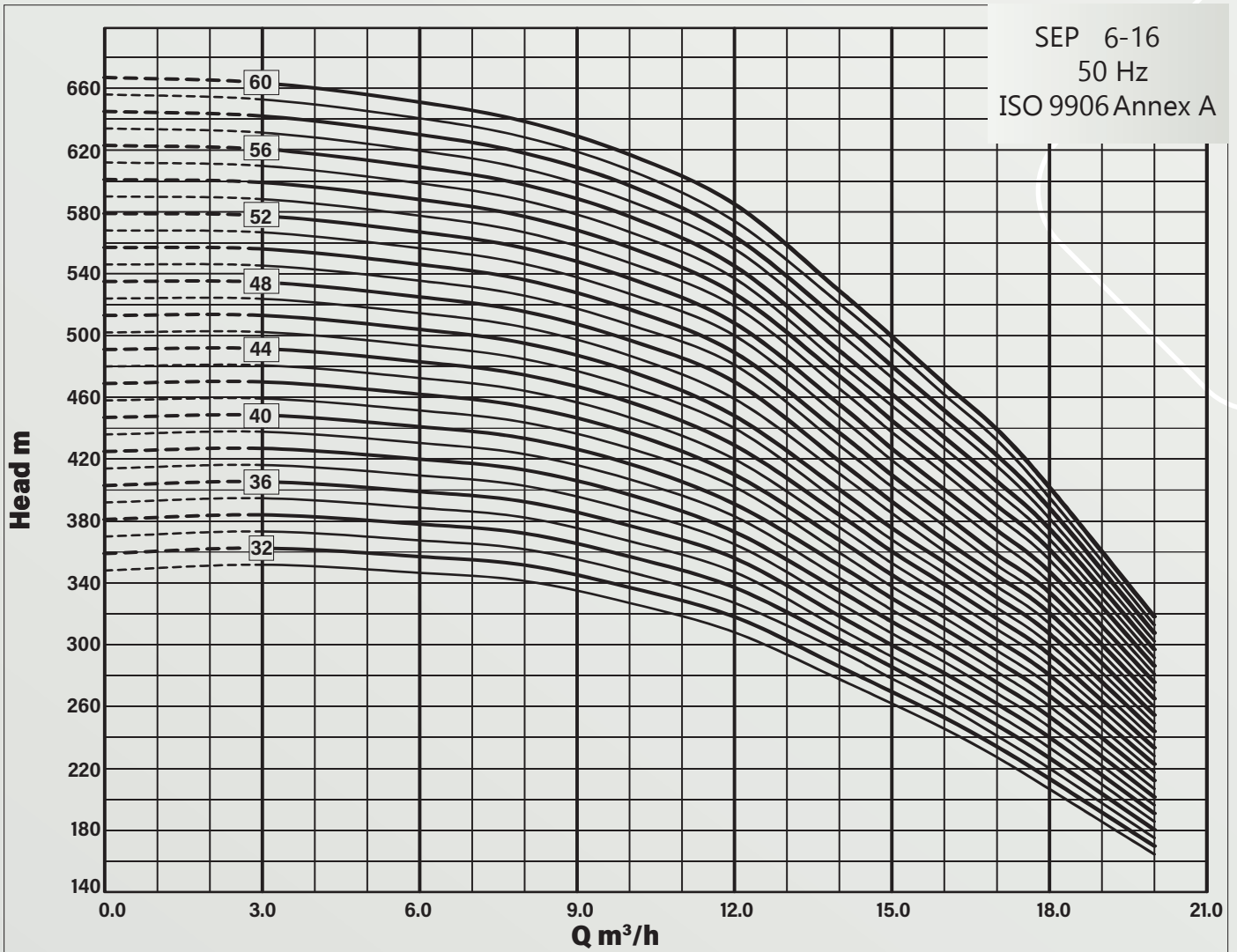
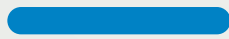
Stainless Steel Submersible Pumps / SEP 6-16 Series														50 Hz	
Pump Type	power		Flow										Pump Weight	Pump length	Outlet
	Kw	Hp	m <sup>3</sup> /h	0.0	10.0	12.0	14.0	15.0	16.0	17.0	18.0	20.0	Kg	cm	Inch
			l/s	0.00	2.78	3.33	3.89	4.17	4.44	4.72	5.00	5.56			
SEP 6-16/ 01	0.55	0.75	11	10	9	8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

# STAINLESS STEEL SUBMERSIBLE SEP 6-16 SERIES





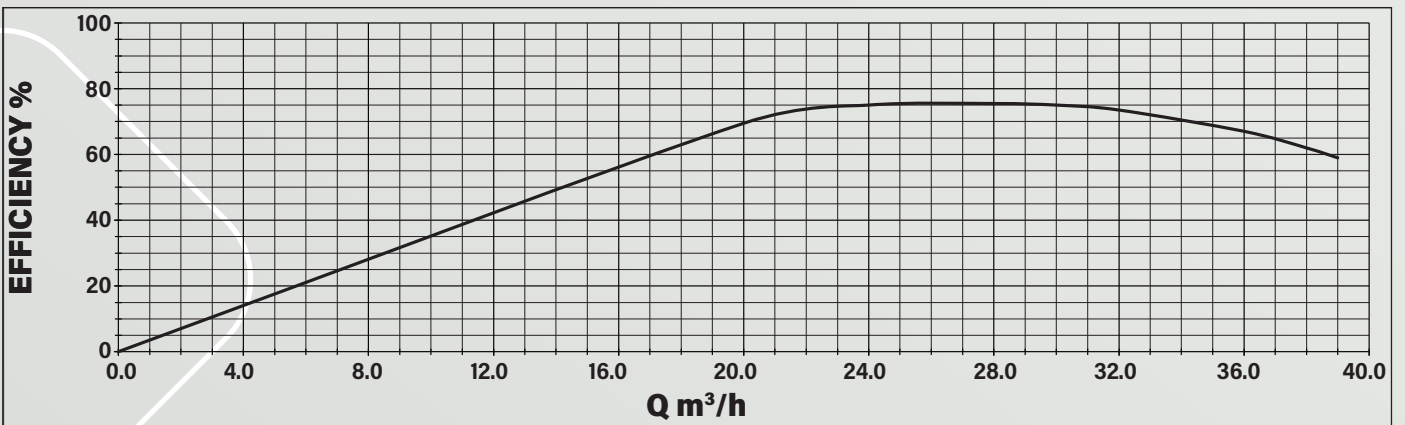
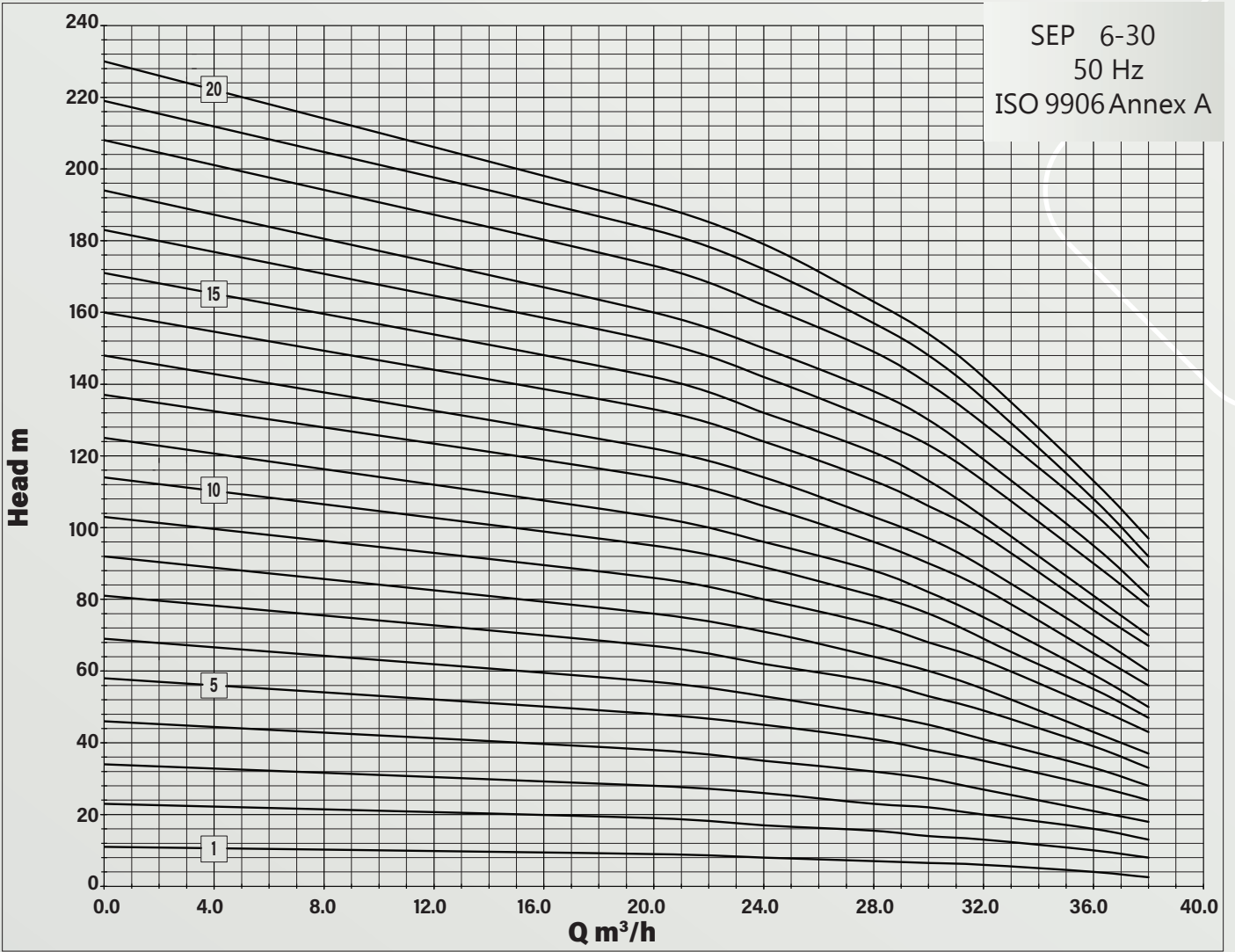
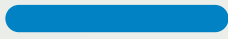
# STAINLESS STEEL SUBMERSIBLE SEP 6-16 SERIES



# STAINLESS STEEL SUBMERSIBLE SEP 6-30 SERIES

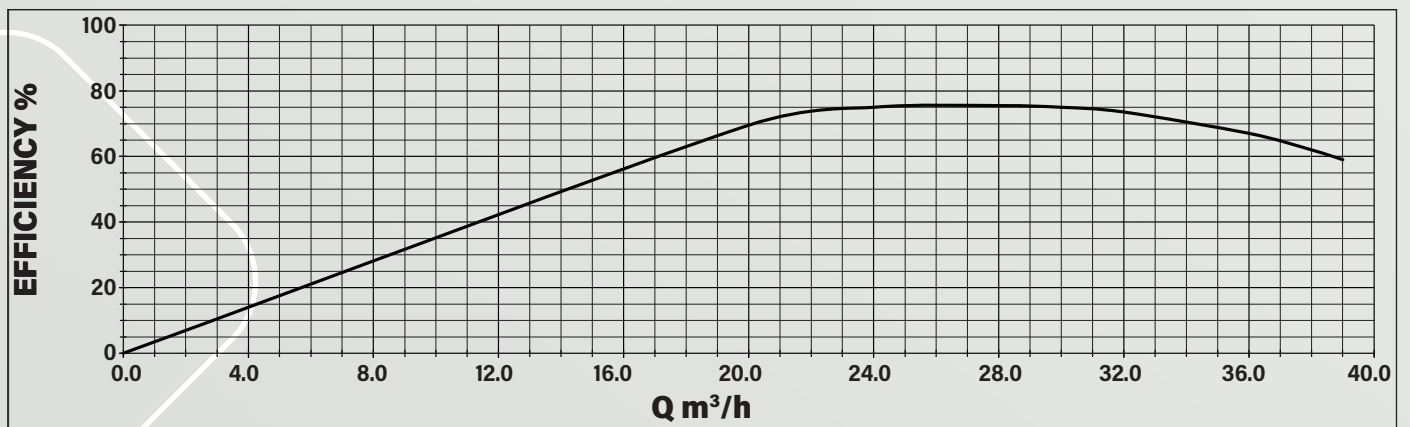
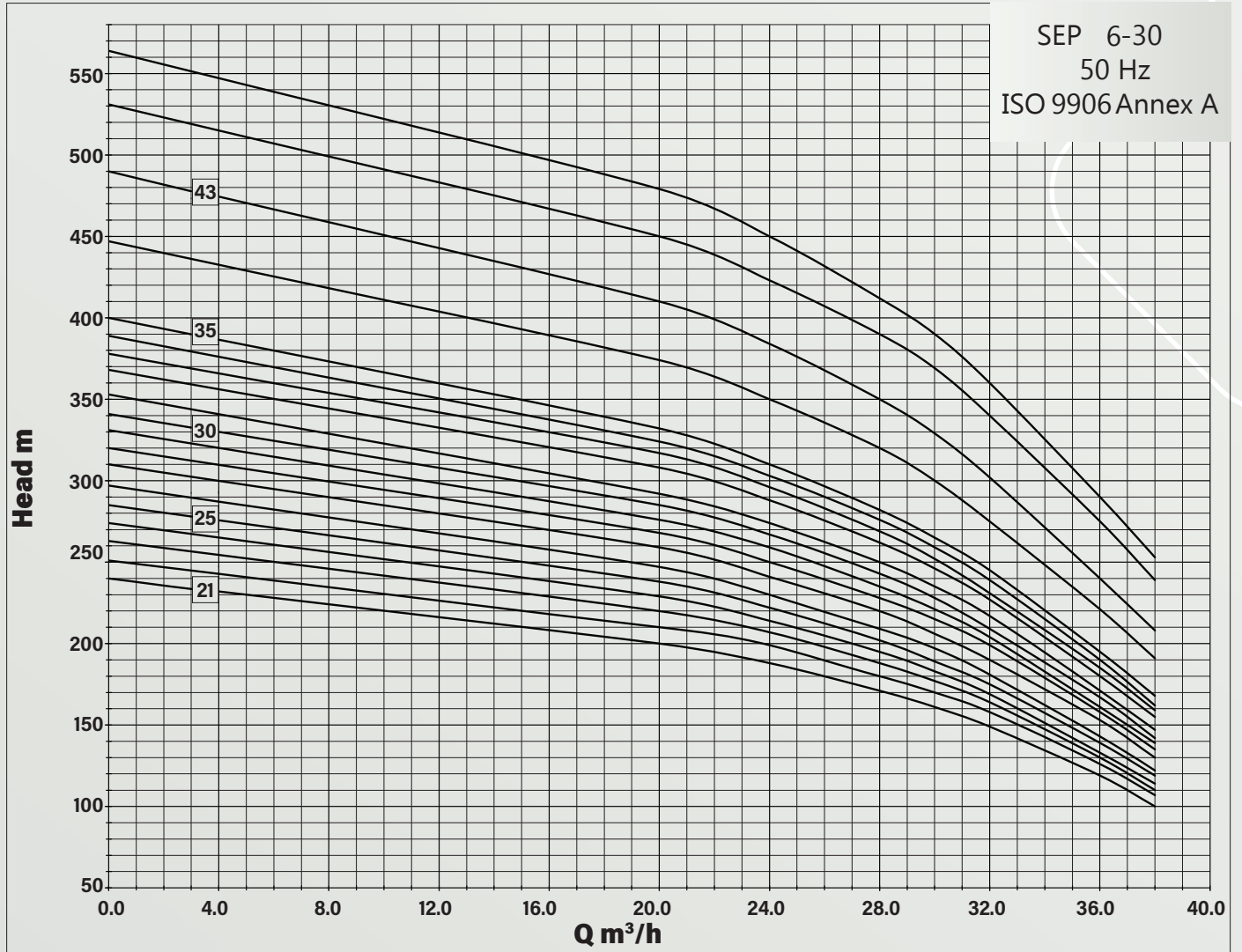
Stainless Steel Submersible Pumps / SEP 6-30 Series													50 Hz	
Pump Type	power		Flow								Pump Weight	Pump length	Outlet	
	Kw	Hp	m <sup>3</sup> /h	0.0	20.0	24.0	28.0	30.0	32.0	36.0				38.0
			l/s	0.00	5.56	6.67	7.78	8.33	8.89	10.00	10.56	Kg	cm	Inch
SEP 6-30/ 01	0.75	1	Head m	11	9	8	7	7	6	4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

# STAINLESS STEEL SUBMERSIBLE SEP 6-30 SERIES





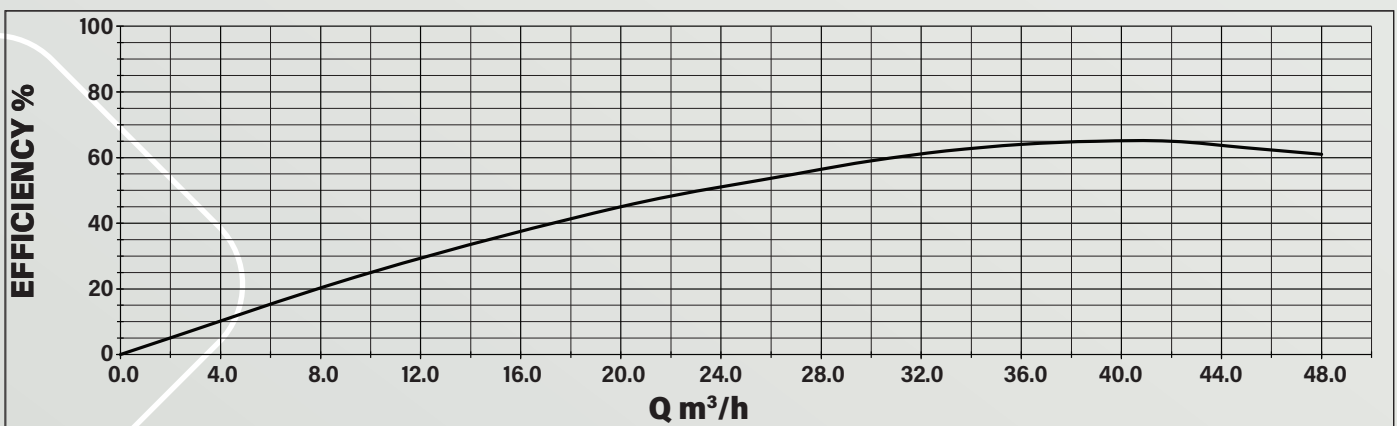
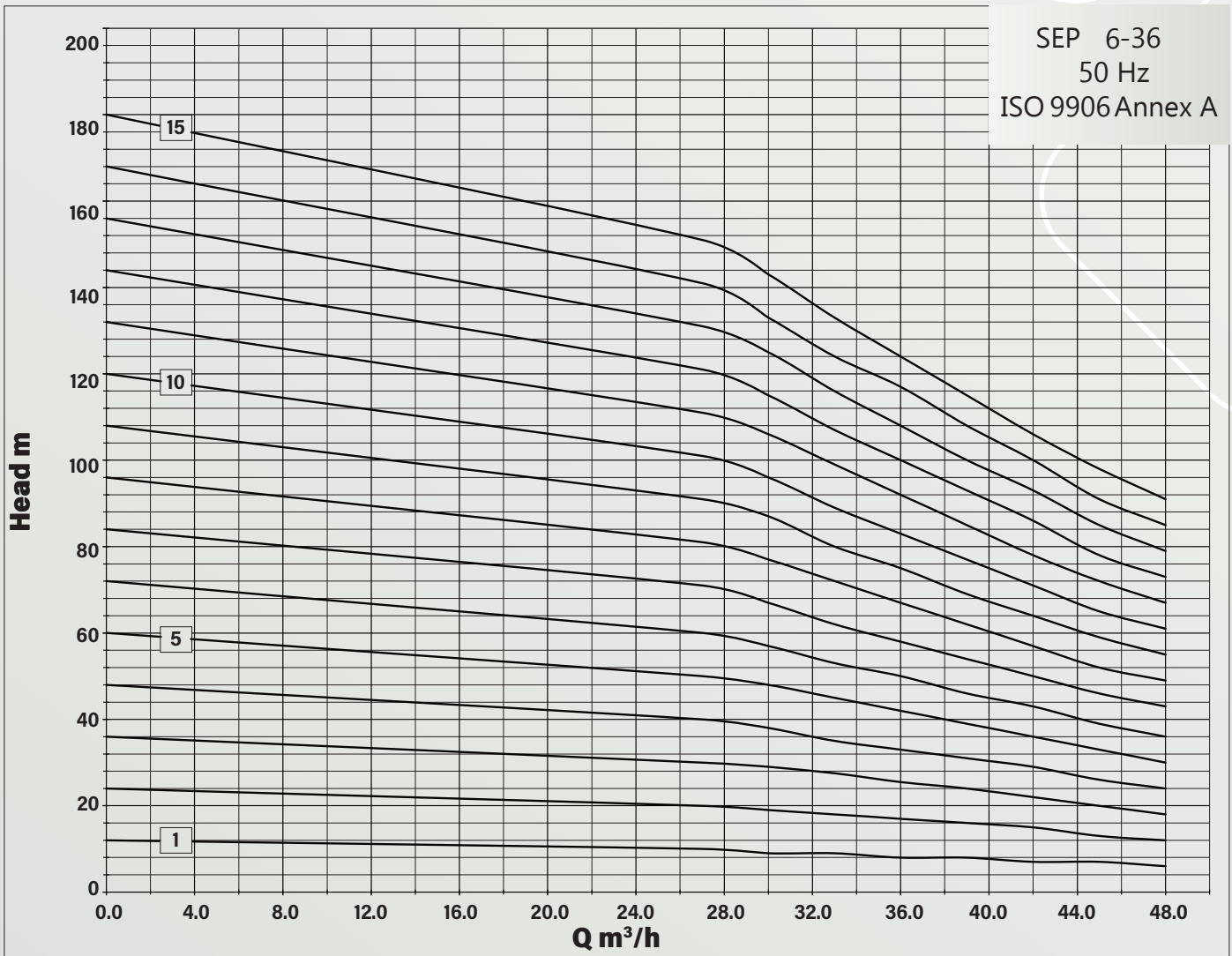
# STAINLESS STEEL SUBMERSIBLE SEP 6-30 SERIES



# STAINLESS STEEL SUBMERSIBLE SEP 6-36 SERIES

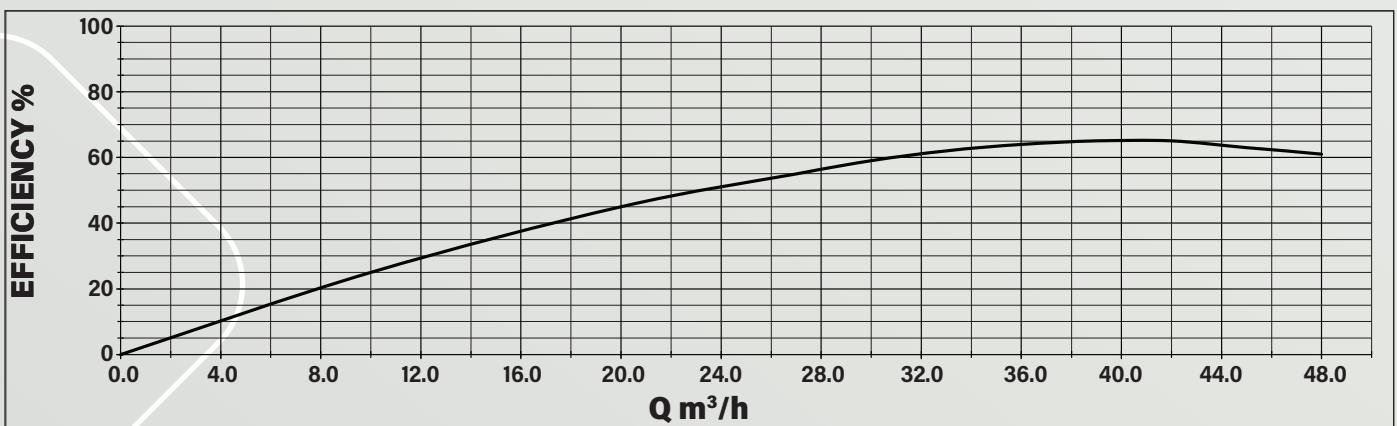
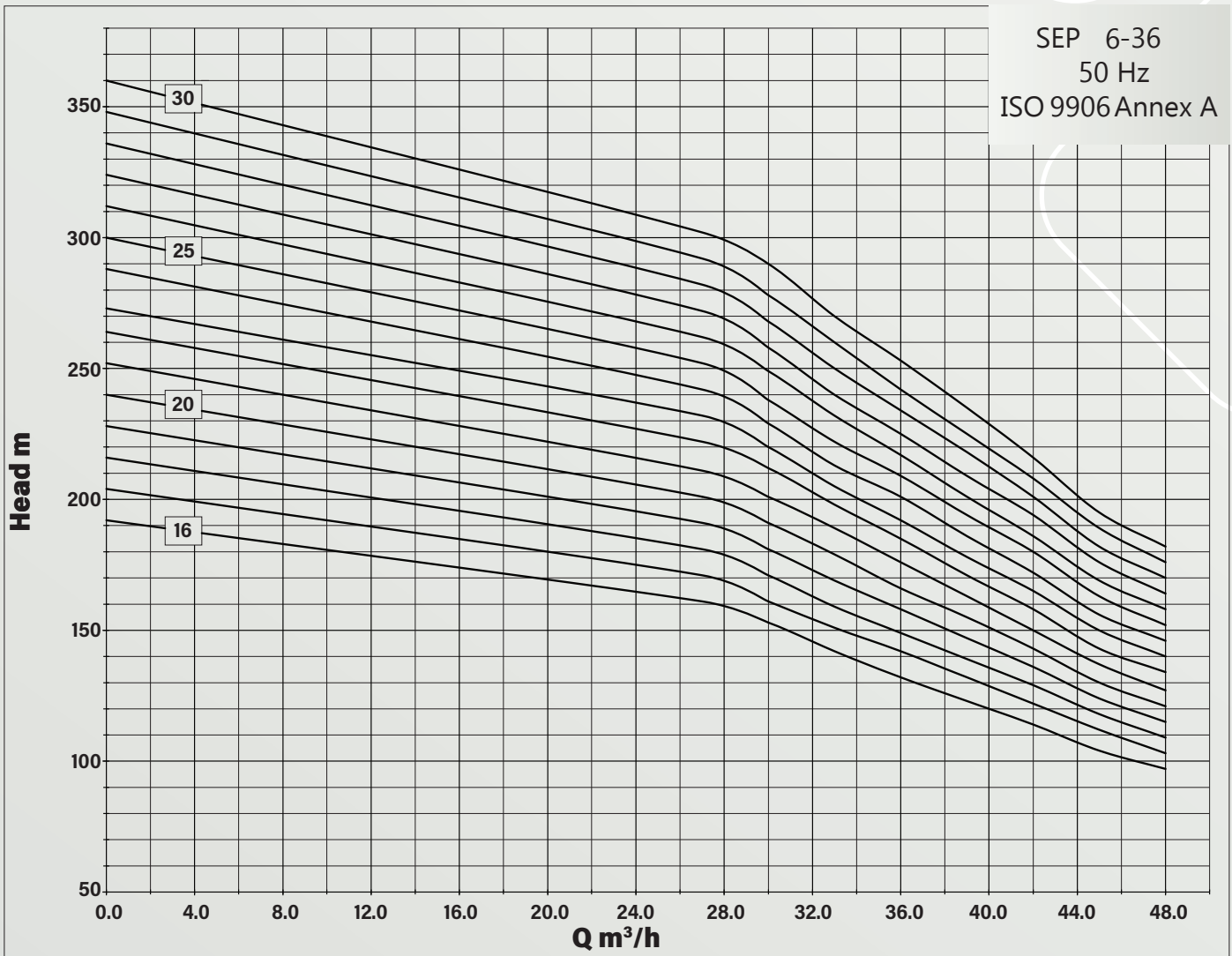
Stainless Steel Submersible Pumps / SEP 6-36 Series															50 Hz
Pump Type	power		Flow										Pump Weight	Pump length	Outlet
			m³/h	0.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0			
	l/s	0.00	7.50	8.33	9.17	10.00	10.83	11.67	12.50	13.33	Kg	cm	Inch		
SEP 6-36/ 01	1.1	1.5	Head m	12	10	9	9	8	8	7	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 SEP 6-36 SERIES





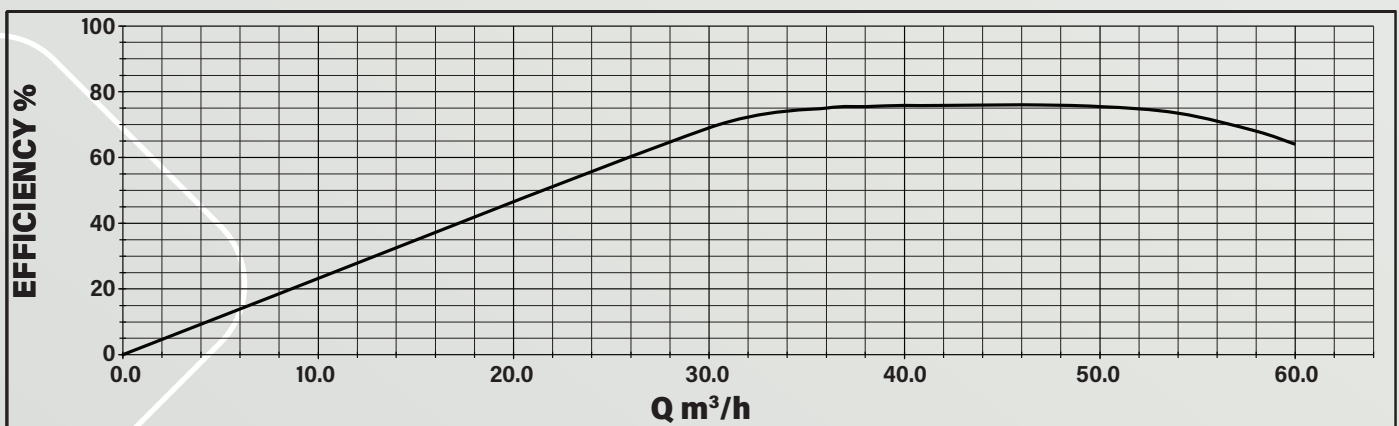
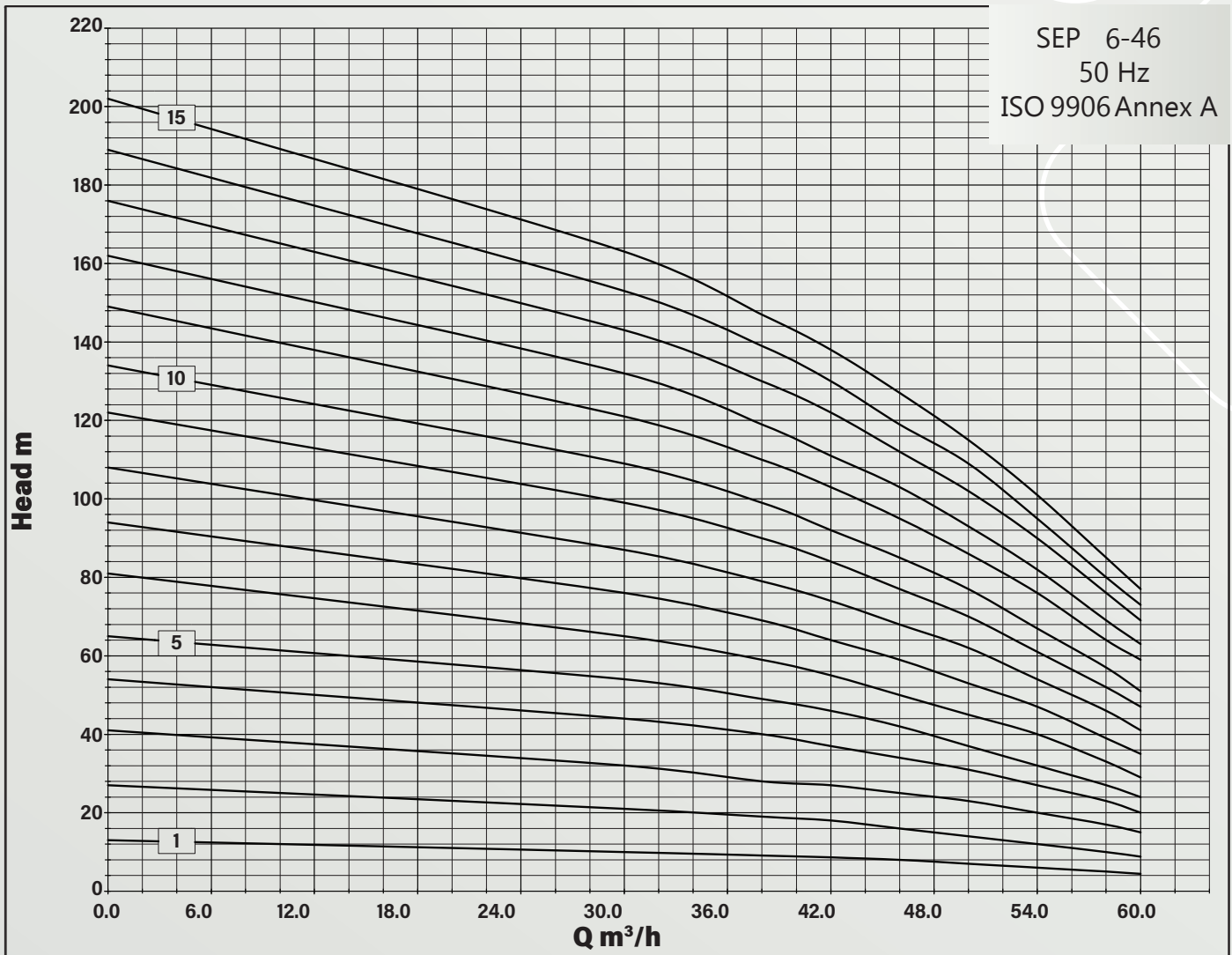
# STAINLESS STEEL SUBMERSIBLE SEP 6-36 SERIES



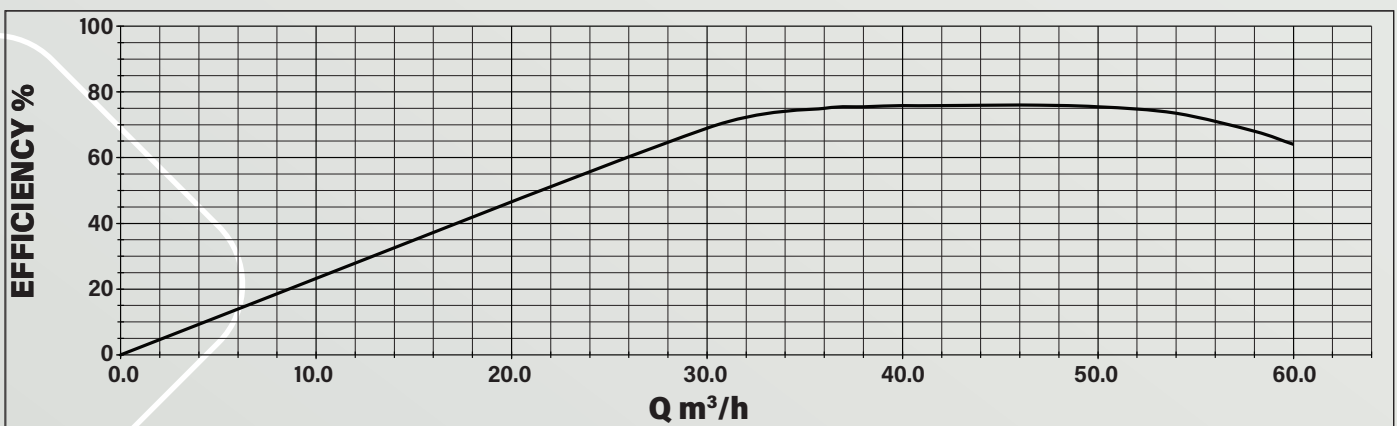
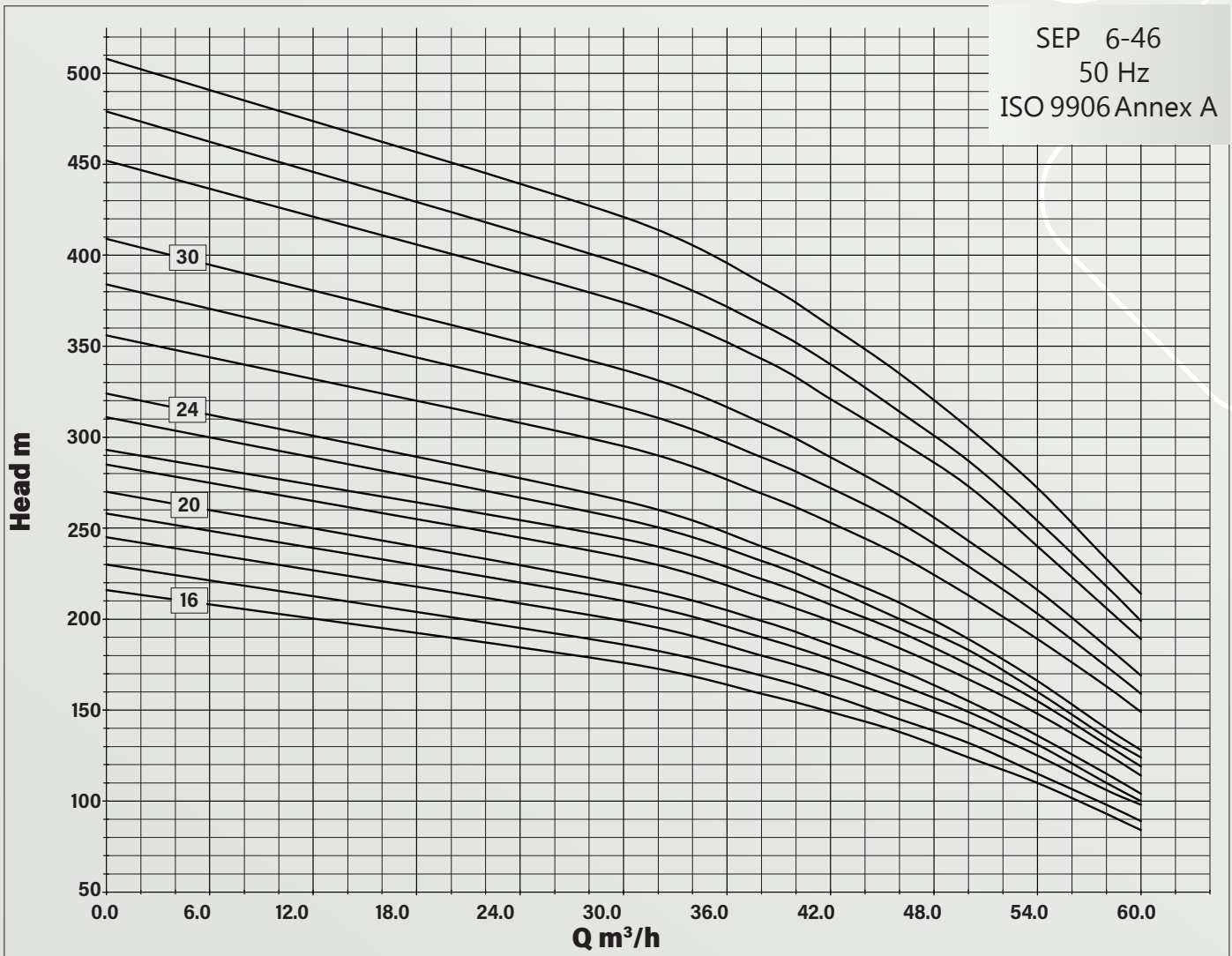
# STAINLESS STEEL SUBMERSIBLE SEP 6-46 SERIES

Stainless Steel Submersible Pumps / SEP 6-46 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	
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	
															4"

# STAINLESS STEEL SUBMERSIBLE SEP 6-46 SERIES



# STAINLESS STEEL SUBMERSIBLE SEP 6-46 SERIES

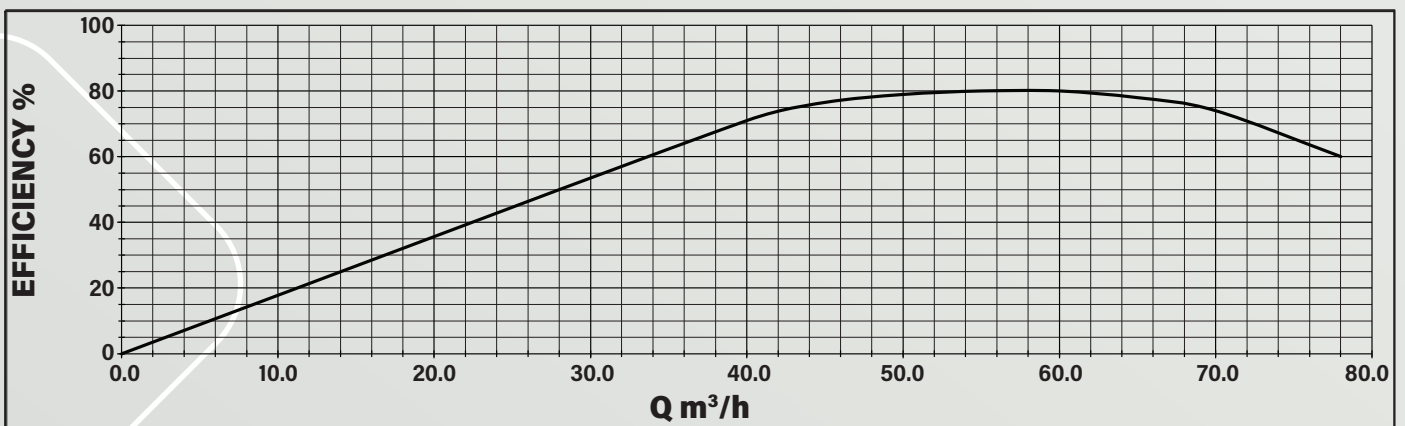
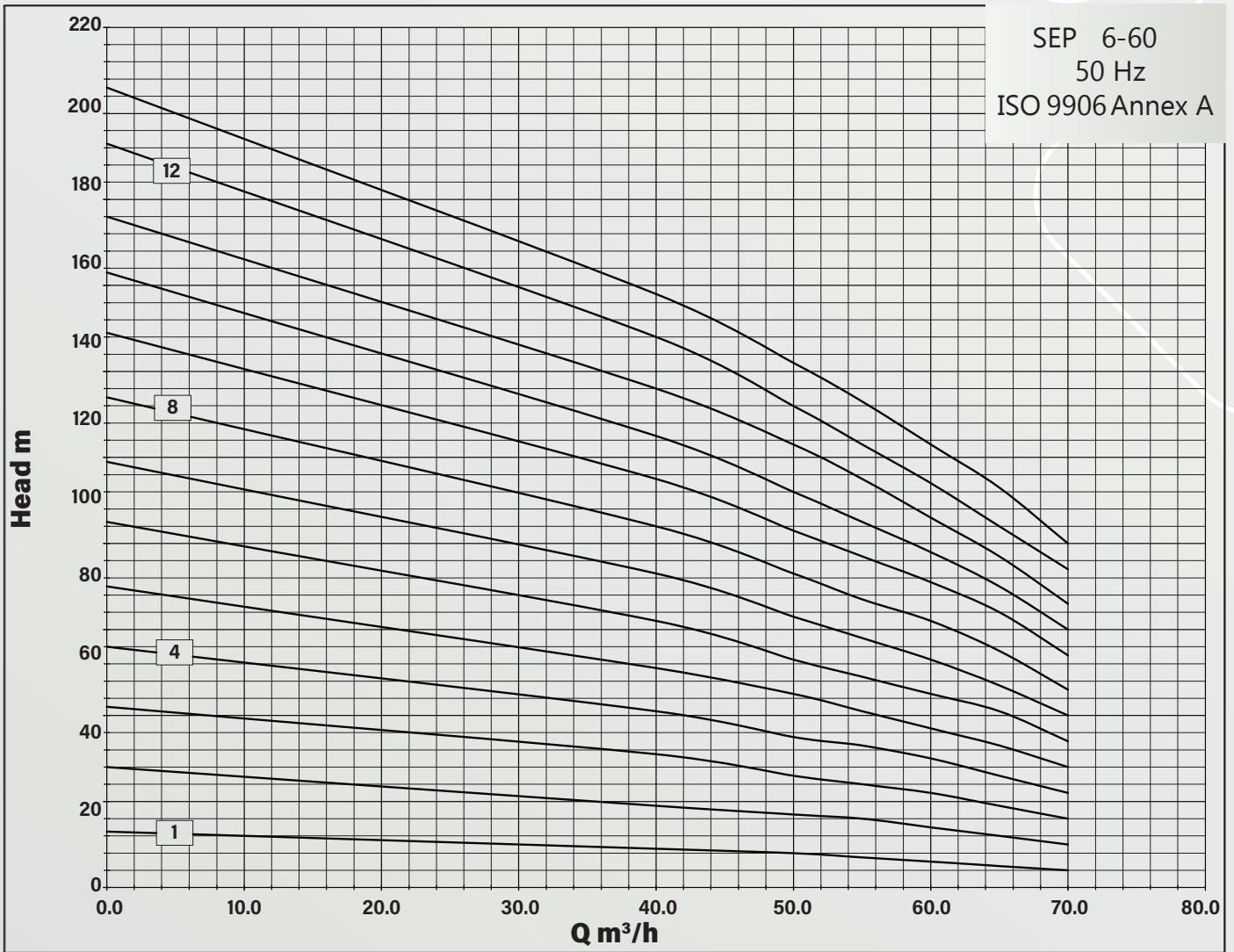
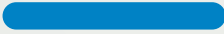




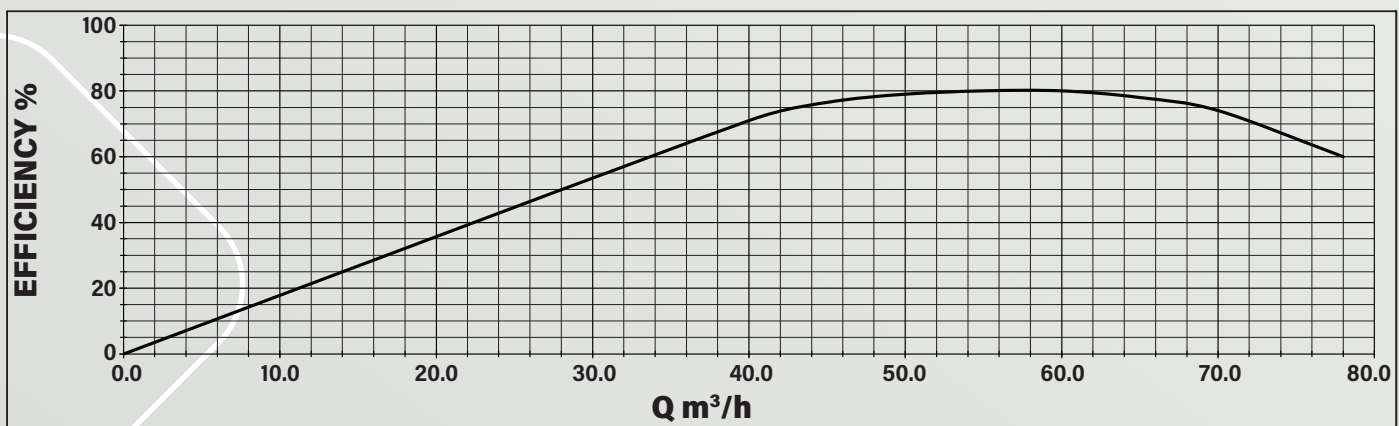
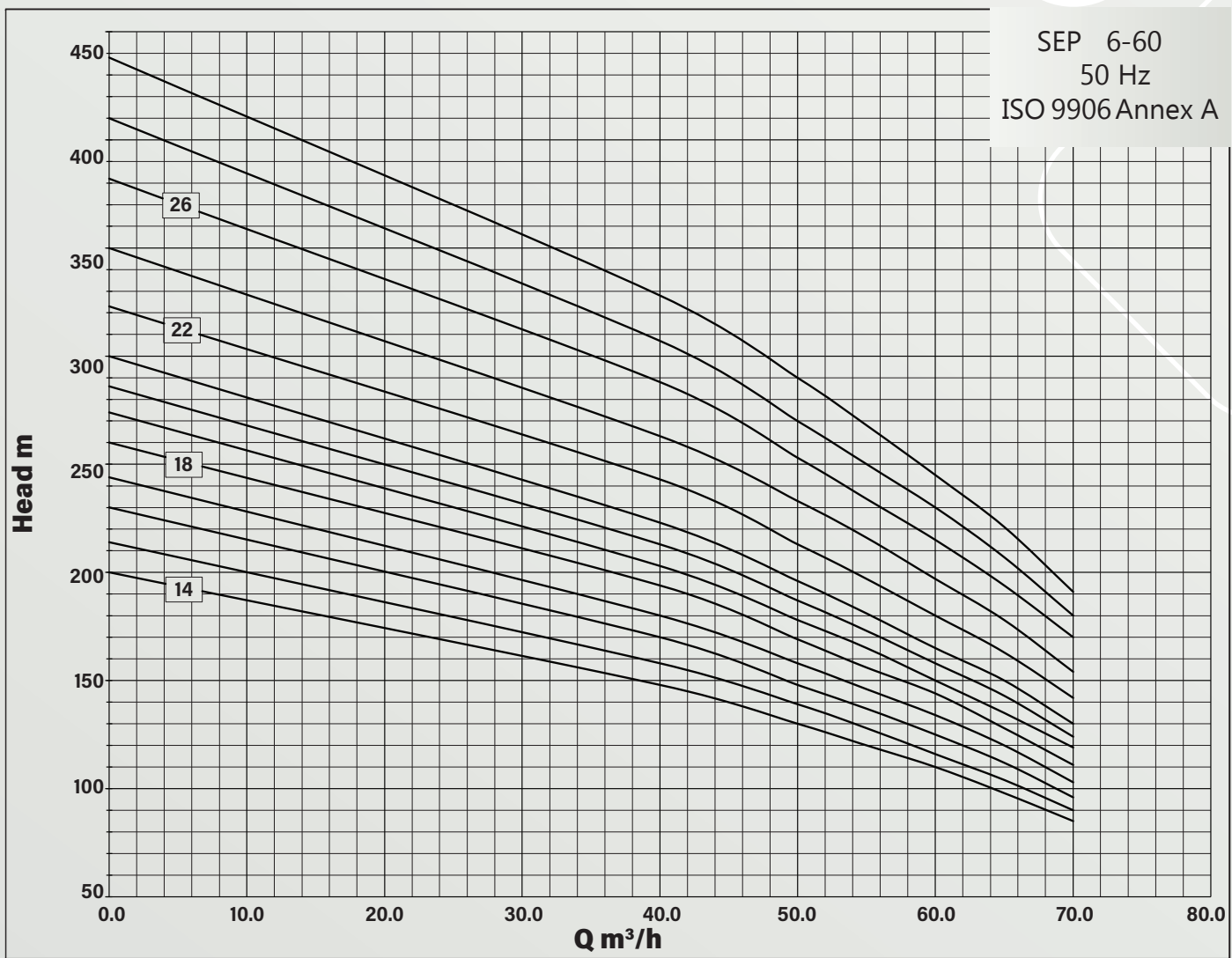
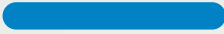
# STAINLESS STEEL SUBMERSIBLE SEP 6-60 SERIES

Stainless Steel Submersible Pumps / SEP 6-60 Series													50 Hz
Pump Type	power		Flow								Pump Weight	Pump length	Outlet
	Kw	Hp	m³/h	0.0	40.0	50.0	55.0	60.0	65.0	70.0			
			l/s	0.00	11.11	13.89	15.28	16.67	18.06	19.44			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



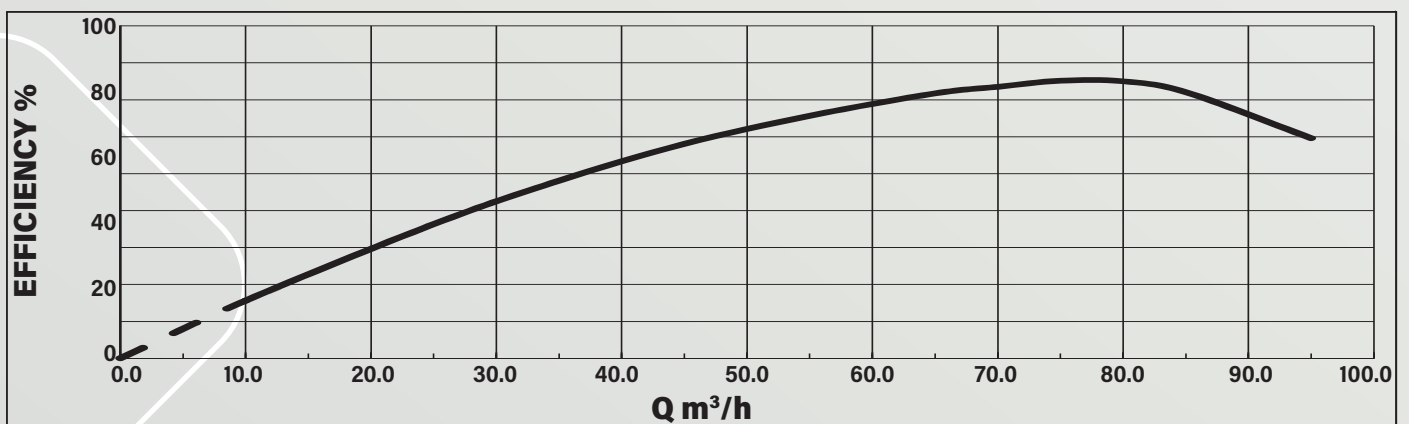
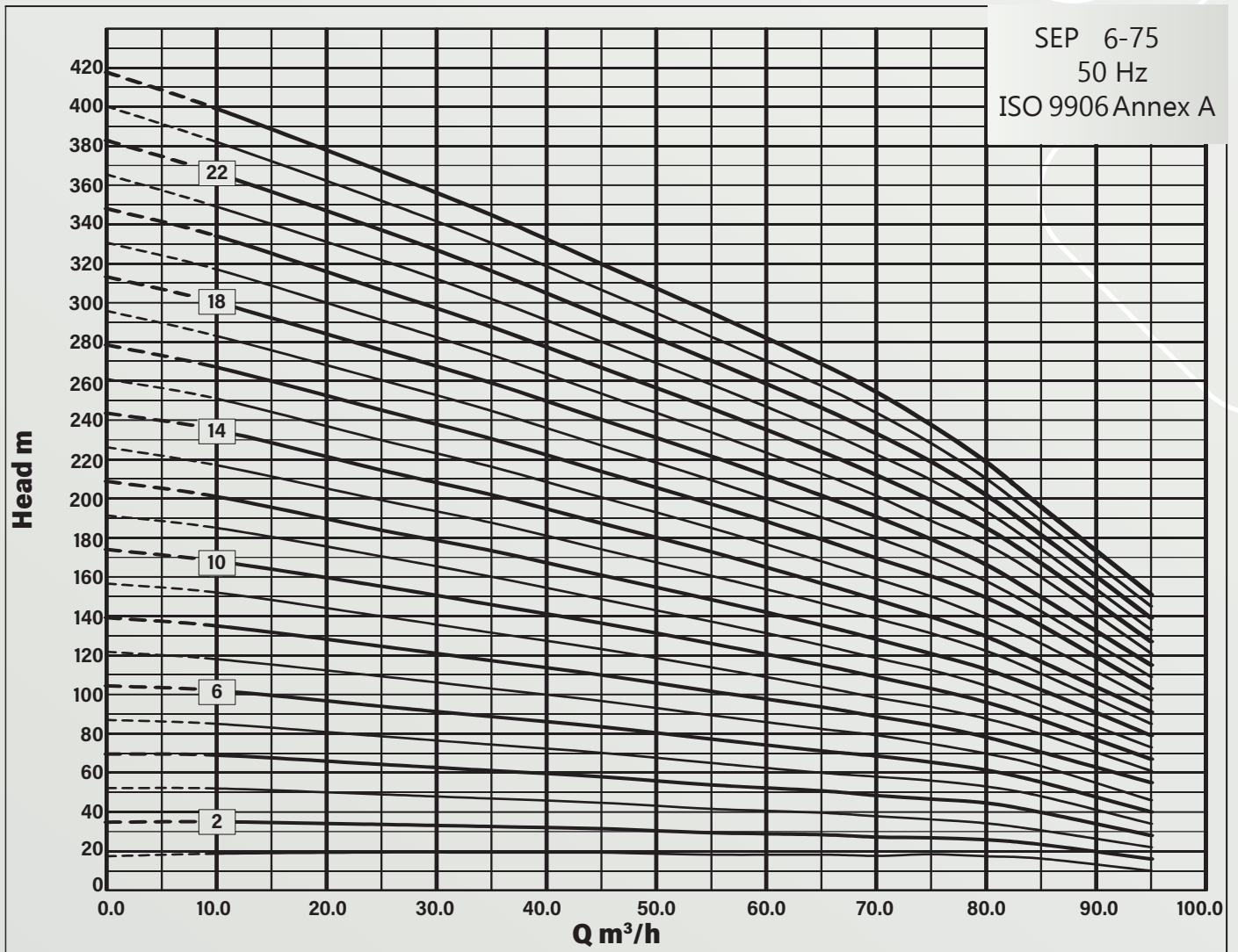
# STAINLESS STEEL SUBMERSIBLE SEP 6-60 SERIES



# STAINLESS STEEL SUBMERSIBLE SEP 6-75 SERIES

Stainless Steel Submersible Pumps / SEP 6-75 Series													50 Hz	
Pump Type	power		Flow								Pump Weight	Pump length	Outlet	
	Kw	Hp	m <sup>3</sup> /h	0.0	55.0	65.0	70.0	75.0	80.0	85.0	95.0	Kg	cm	Inch
			l/s	0.00	15.28	18.06	19.44	20.83	22.22	23.61	26.39			
SEP 6-75/ 01	3	4	Head m	17	12	11	11	9	8	7	6	11	44	4"
SEP 6-75/ 02	5.5	7.5		35	24	22	21	19	17	14	12	14	58	
SEP 6-75/ 03	7.5	10		52	37	34	32	28	25	22	18	17	72	
SEP 6-75/ 04	9.2	12.5		72	49	45	42	38	34	29	24	20	86	
SEP 6-75/ 05	13	17.5		87	61	56	53	48	42	36	30	23	100	
SEP 6-75/ 06	15	20		104	73	67	64	57	50	43	36	26	114	
SEP 6-75/ 07	18.5	25		122	85	78	74	67	59	50	42	29	128	
SEP 6-75/ 08	22	30		139	98	90	85	76	67	58	48	32	142	
SEP 6-75/ 09	26	35		157	110	101	95	86	76	65	54	35	156	
SEP 6-75/ 10	26	35		174	122	112	106	96	84	72	60	38	170	
SEP 6-75/ 11	30	40		191	134	123	117	105	92	79	66	41	184	
SEP 6-75/ 12	37	50		209	146	134	127	114	101	87	72	44	198	
SEP 6-75/ 13	37	50		226	159	146	138	123	109	94	78	47	213	
SEP 6-75/ 14	45	60		244	171	157	148	133	118	101	84	50	227	
SEP 6-75/ 15	45	60		261	183	168	159	142	126	108	90	53	241	
SEP 6-75/ 16	45	60		278	195	179	170	151	134	115	96	56	255	
SEP 6-75/ 17	45	60		296	207	190	180	161	143	122	102	59	269	
SEP 6-75/ 18	52	70		313	220	202	191	170	151	130	108	62	283	
SEP 6-75/ 19	55	75		331	232	213	201	180	159	137	114	65	297	
SEP 6-75/ 20	59	80		348	244	224	212	189	168	144	120	68	311	
SEP 6-75/ 21	59	80		365	256	235	223	198	176	151	126	71	325	
SEP 6-75/ 22	59	80		383	268	246	233	208	185	158	132	74	339	
SEP 6-75/ 23	66	90		400	281	258	244	217	193	166	138	77	353	
SEP 6-75/ 24	66	90		418	293	269	254	227	202	173	144	80	367	

# STAINLESS STEEL SUBMERSIBLE SEP 6-75 SERIES

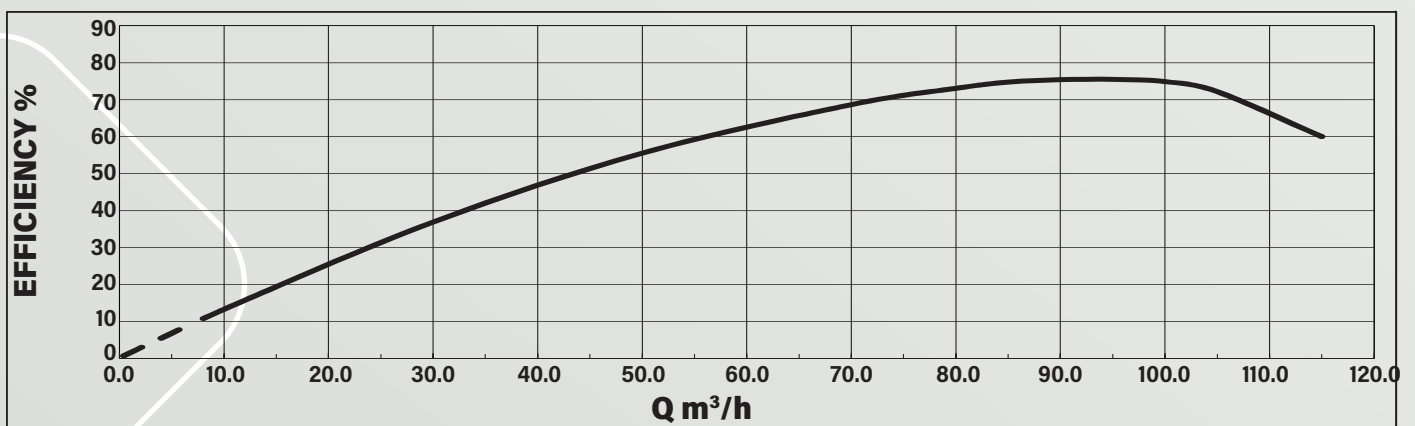
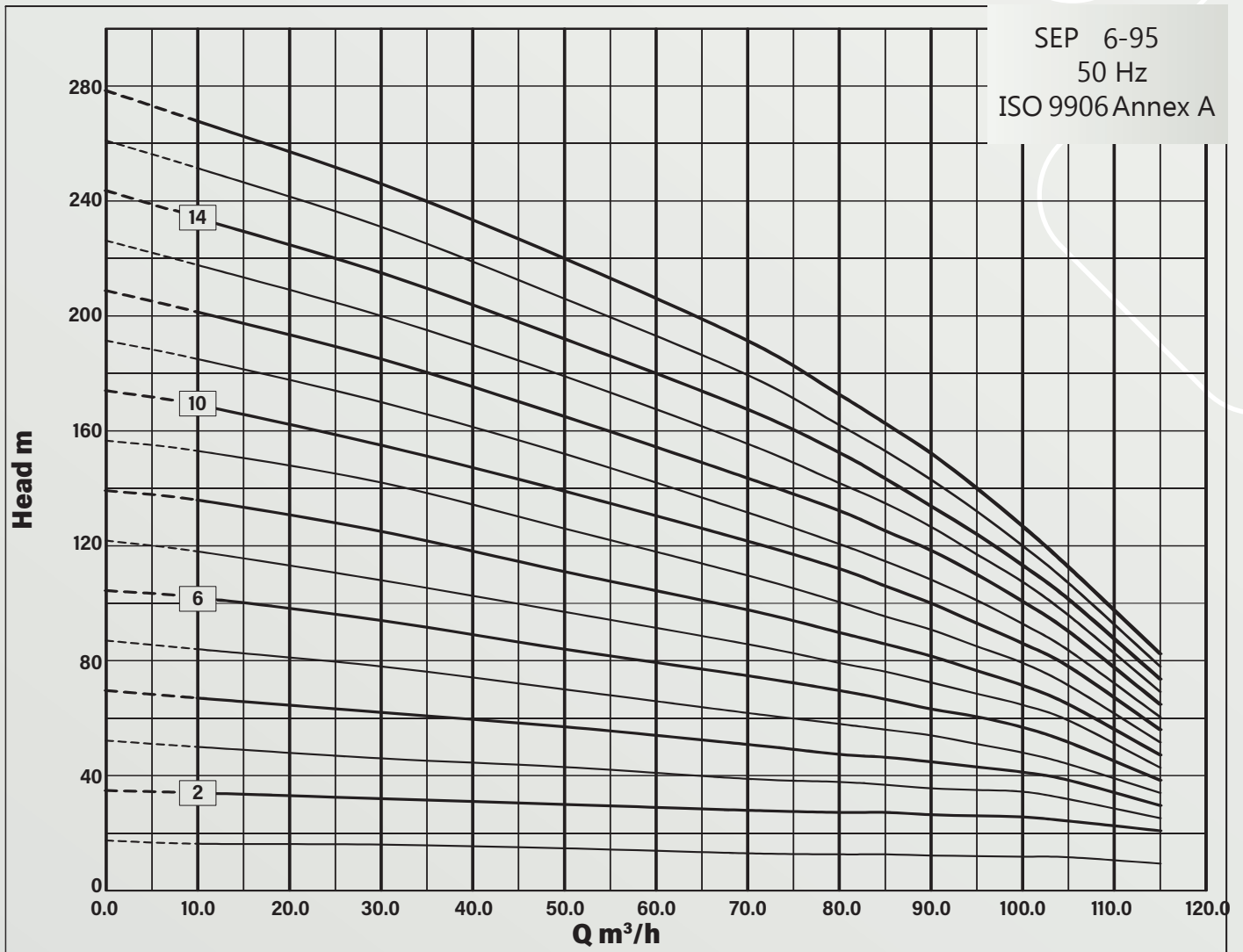


# STAINLESS STEEL SUBMERSIBLE SEP 6-95 SERIES

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



# STAINLESS STEEL SUBMERSIBLE SEP 6-95 SERIES



# 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 <sup>3</sup> /h	Litres/min.	Litres/sec.	Nominal pipe diameter in inches and internal diameter in [mm]															
			1/2" 15.75	3/4" 21.25	1" 27.00	1 1/4" 35.75	1 1/2" 41.25	2" 52.50	2 1/2" 68.00	3" 80.25	3 1/2" 92.50	4" 105.0	5" 130.0	6" 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 6.164								
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 17.93	0.962 8.967	0.574 2.802	0.412 0.809	0.310 0.365	0.241 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 51.84	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	2.511 5.995	1.754 2.496					
150	2500	41.7									4.812 26.26	3.139 9.216	2.193 3.807					
180	3000	50.0										3.767 13.05	2.632 5.417					
240	4000	66.7											5.023 22.72	3.509 8.926				
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 <sup>3</sup> /h	Litres/min.	Litres/sec.	PELM					PEH									
			25	32	40	50	63	75	90	110	125	140	160	180			
0.6	10	0.16	0.49 20.4	0.30 26.2	0.19 32.6	0.12 40.8											
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	1.57 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 <sup>2</sup> , 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 <sup>2</sup> , 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





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**SALES@SUTEKSANEGYPT.COM  
INFO@SUTEKSANEGYPT.COM  
CEO@SUTEKSANEGYPT.COM**



**01050500960 - 01033005736  
01050500961 - 01050500962**



**0554413099 - 0554413080**

