

# 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

Product Type	8	160	03	K
Pump Diameter	8	160	03	K
Rated Flow (m <sup>3</sup> /h)	8	160	03	K
Stages	8	160	03	K
Material Options	8	160	03	K

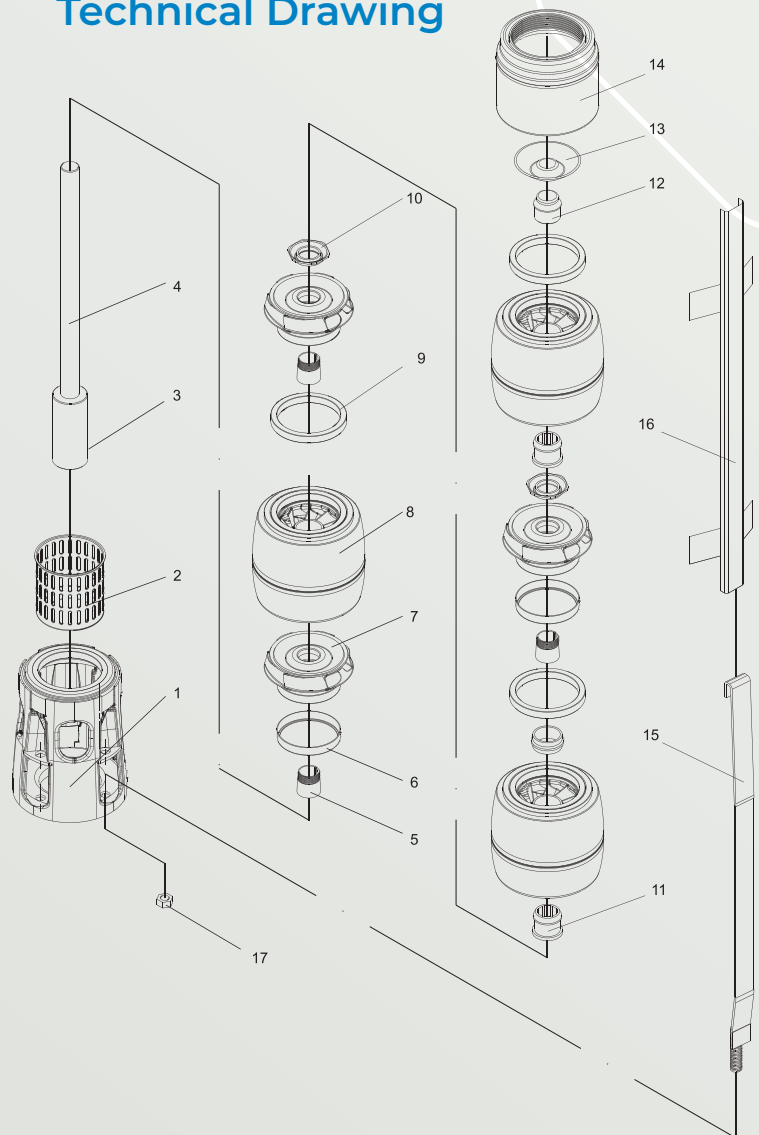
# Material Data

## 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



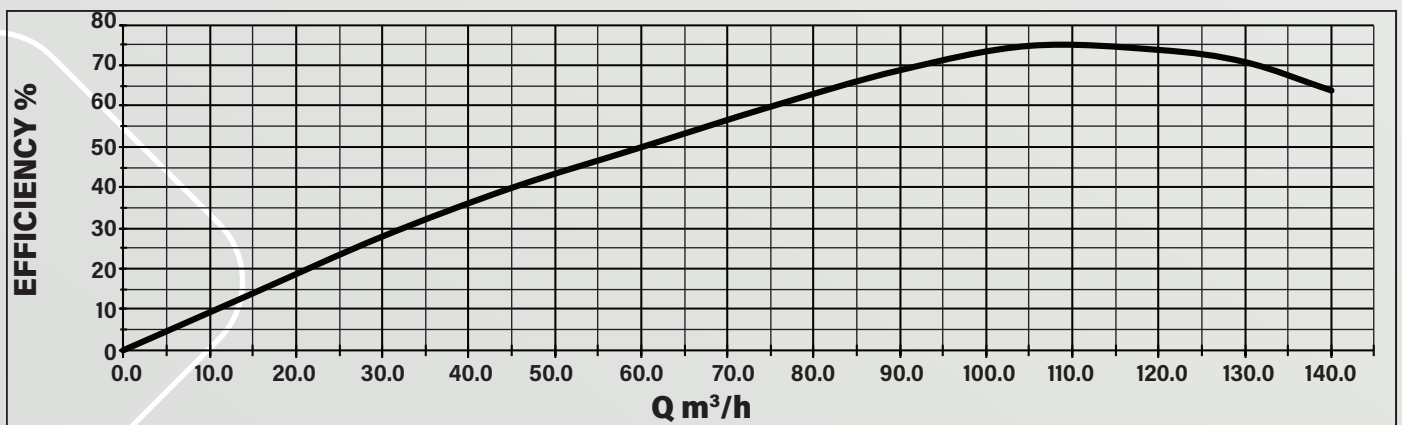
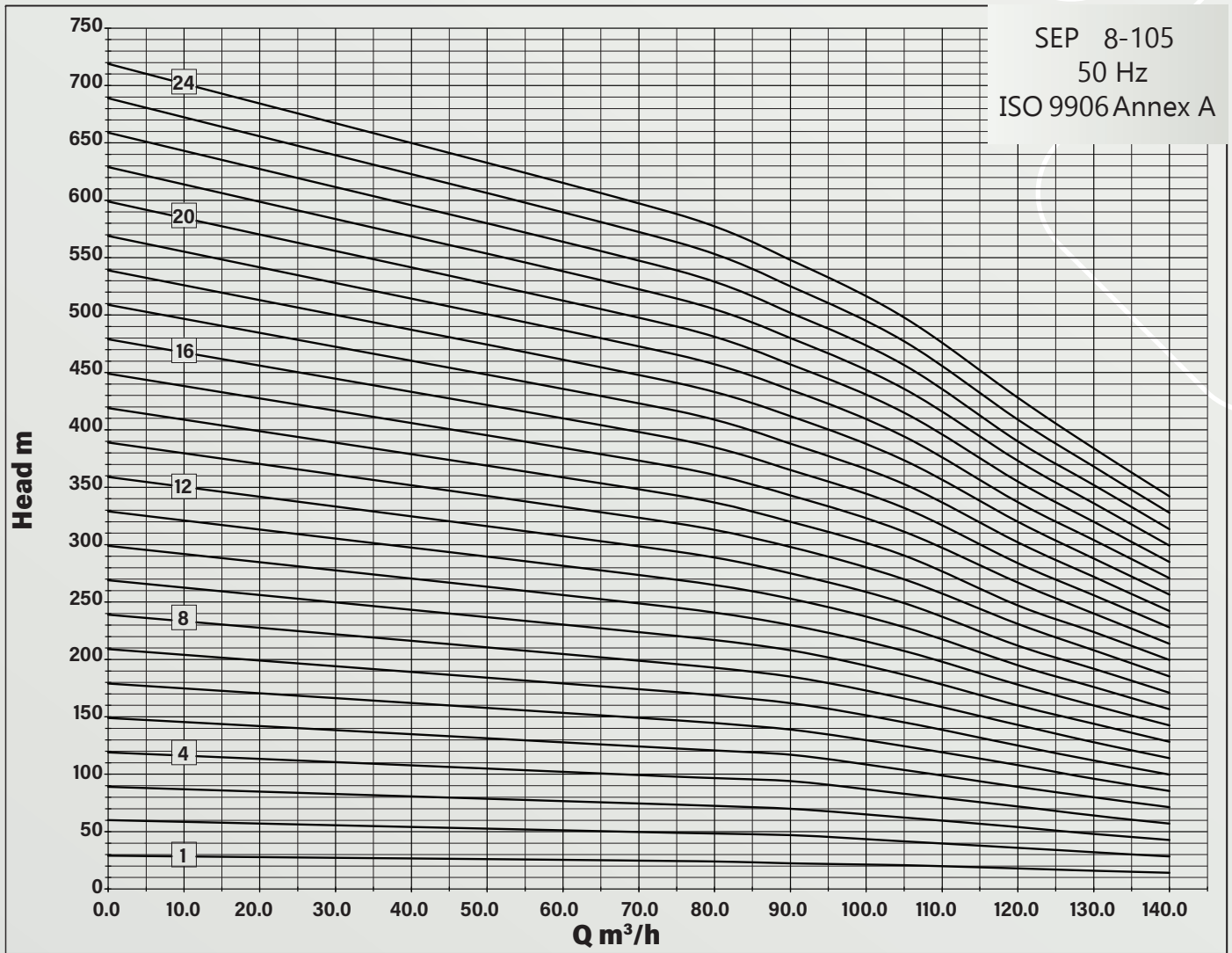
# SEP 8" Pump Series



# STAINLESS STEEL SUBMERSIBLE SEP 8-105 SERIES

Stainless Steel Submersible Pumps / SEP 8-105 Series												50 Hz	
Pump Type	power		Flow							Pump Weight	Pump length	Outlet	
	Kw	Hp	m <sup>3</sup> /h	0.0	75.0	90.0	105.0	120.0	130.0				140.0
SEP 8-105/ 01	7.5	10	Head m	29	25	23	21	18	16	14	25	58	6"
SEP 8-105/ 02	15	20		60	49	47	42	36	32	29	32	73	
SEP 8-105/ 03	27	35		89	74	70	62	54	48	43	39	88	
SEP 8-105/ 04	37	50		119	98	94	83	72	64	57	46	103	
SEP 8-105/ 05	45	60		149	123	117	104	89	80	71	53	118	
SEP 8-105/ 06	52	70		179	147	139	125	108	96	86	60	133	
SEP 8-105/ 07	55	75		209	172	162	145	125	112	100	67	148	
SEP 8-105/ 08	66	90		239	196	185	166	143	128	114	73	163	
SEP 8-105/ 09	75	100		269	221	208	187	160	144	128	80	178	
SEP 8-105/ 10	81	110		299	245	230	208	178	160	143	87	193	
SEP 8-105/ 11	92	125		329	270	253	228	195	176	157	94	208	
SEP 8-105/ 12	92	125		359	294	275	249	212	192	171	101	223	
SEP 8-105/ 13	110	150		389	319	298	270	231	208	185	108	238	
SEP 8-105/ 14	110	150		419	343	320	291	247	224	200	115	253	
SEP 8-105/ 15	129	175		449	368	343	311	267	240	214	122	268	
SEP 8-105/ 16	129	175		479	392	365	332	284	256	228	129	283	
SEP 8-105/ 17	147	200		509	417	388	353	302	272	242	136	298	
SEP 8-105/ 18	147	200		539	441	412	374	320	288	257	143	313	
SEP 8-105/ 19	147	200		569	466	435	394	337	304	271	150	328	
SEP 8-105/ 20	166	225		599	490	457	415	355	320	285	157	343	
SEP 8-105/ 21	166	225		629	515	480	436	373	336	299	164	358	
SEP 8-105/ 22	184	250		659	539	502	457	390	352	314	171	373	
SEP 8-105/ 23	184	250		689	564	525	477	409	368	328	178	388	
SEP 8-105/ 24	184	250		719	588	548	498	428	384	342	185	403	

# STAINLESS STEEL SUBMERSIBLE SEP 8-105 SERIES

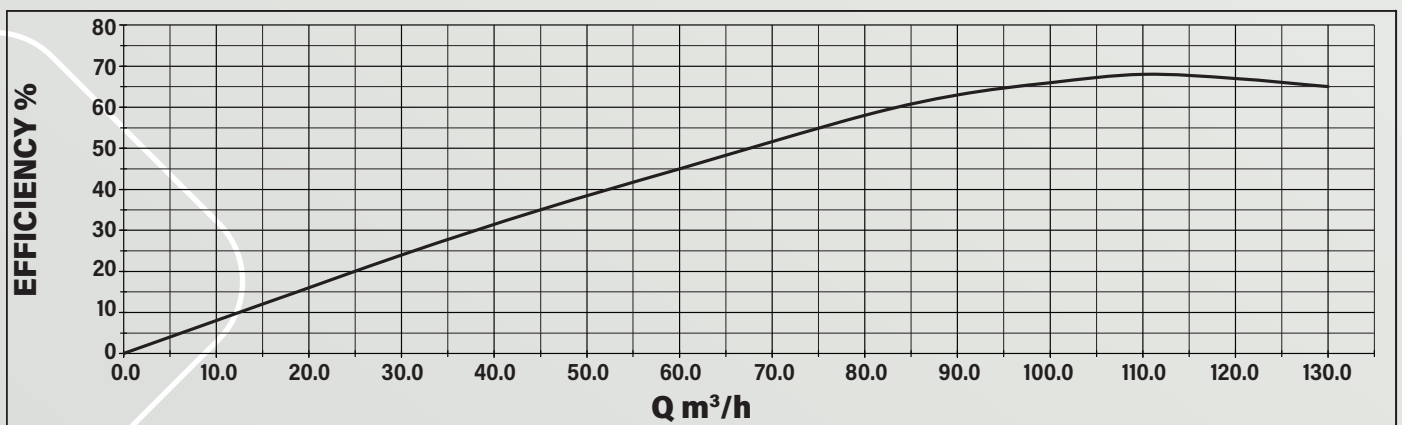
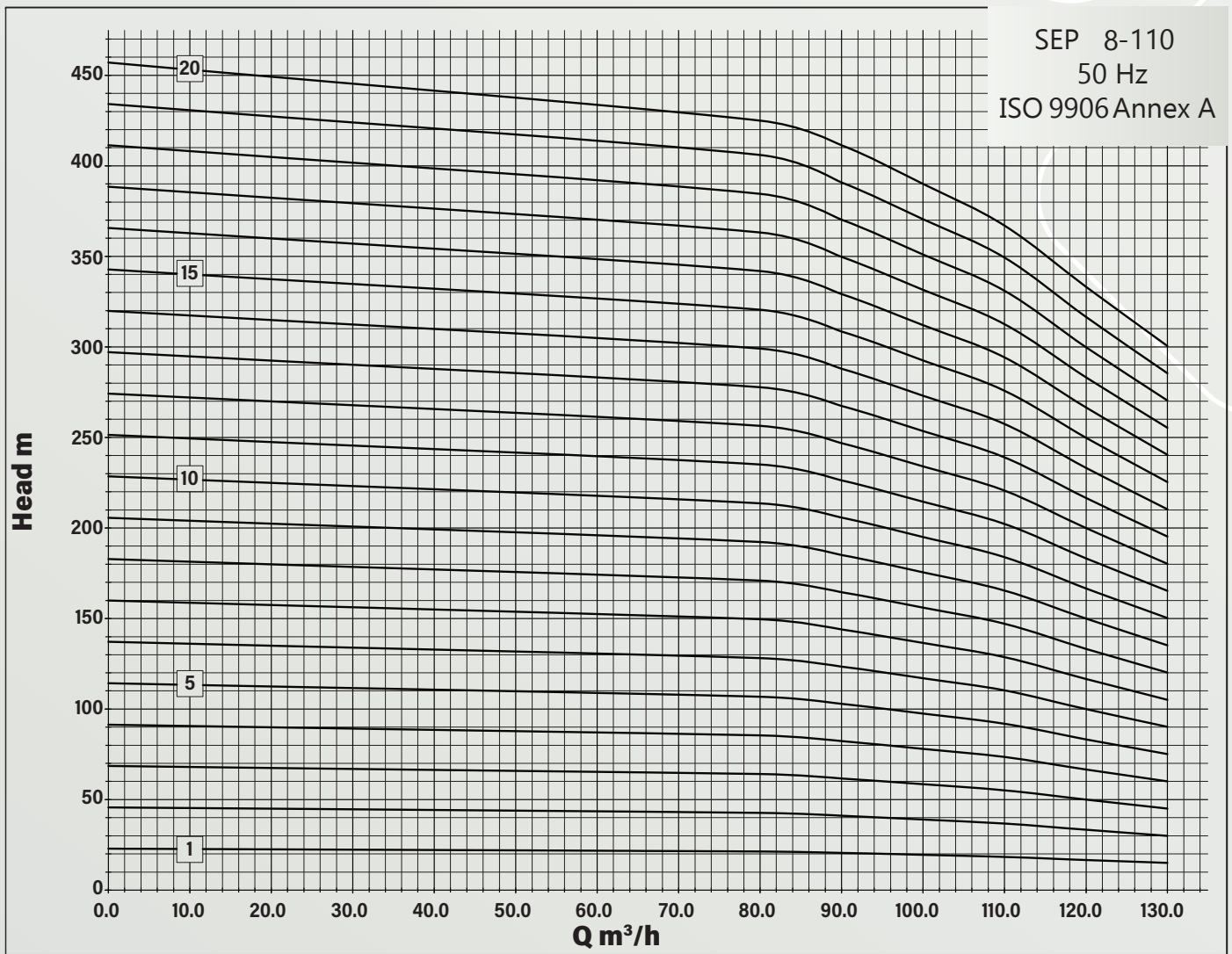
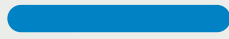




# STAINLESS STEEL SUBMERSIBLE SEP 8-110 SERIES

Stainless Steel Submersible Pumps / SEP 8-110 Series													50 Hz
Pump Type	power		Flow								Pump Weight	Pump length	Outlet
	Kw	Hp	m <sup>3</sup> /h	0.0	80.0	90.0	100.0	110.0	120.0	130.0			
			l/s	0.00	22.22	25.00	27.78	30.56	33.33	36.11			
SEP 8-110/ 01	7.5	10	Head m	23	21	21	20	18	17	15	25	58	6"
SEP 8-110/ 02	13	17.5		46	43	41	39	37	33	30	32	74	
SEP 8-110/ 03	22	30		69	64	62	59	55	50	45	39	90	
SEP 8-110/ 04	30	40		91	85	82	78	74	67	60	46	105	
SEP 8-110/ 05	37	50		114	107	103	98	92	83	75	53	121	
SEP 8-110/ 06	45	60		137	128	123	117	110	100	90	60	137	
SEP 8-110/ 07	55	75		160	150	144	137	129	117	105	67	152	
SEP 8-110/ 08	59	80		183	171	165	156	147	133	120	73	168	
SEP 8-110/ 09	75	100		206	192	185	176	165	150	135	80	184	
SEP 8-110/ 10	81	110		229	214	206	195	184	167	150	87	199	
SEP 8-110/ 11	92	125		251	235	226	215	202	183	165	94	215	
SEP 8-110/ 12	110	150		274	256	247	234	221	200	180	101	231	
SEP 8-110/ 13	110	150		297	278	267	254	239	217	195	108	247	
SEP 8-110/ 14	110	150		320	299	288	273	257	233	210	115	262	
SEP 8-110/ 15	129	175		343	320	309	293	276	250	225	122	278	
SEP 8-110/ 16	129	175		366	342	329	312	294	267	240	129	294	
SEP 8-110/ 17	129	175		388	363	350	332	313	283	255	136	309	
SEP 8-110/ 18	147	200		411	385	370	351	331	300	270	143	325	
SEP 8-110/ 19	147	200		434	406	391	371	349	317	285	150	341	
SEP 8-110/ 20	166	225		457	425	411	390	367	333	300	157	356	

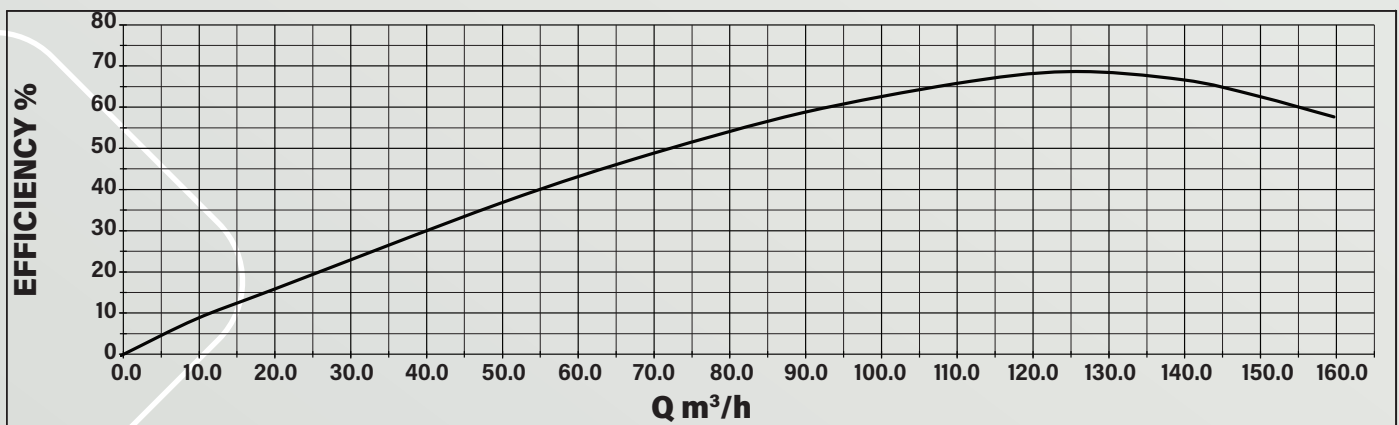
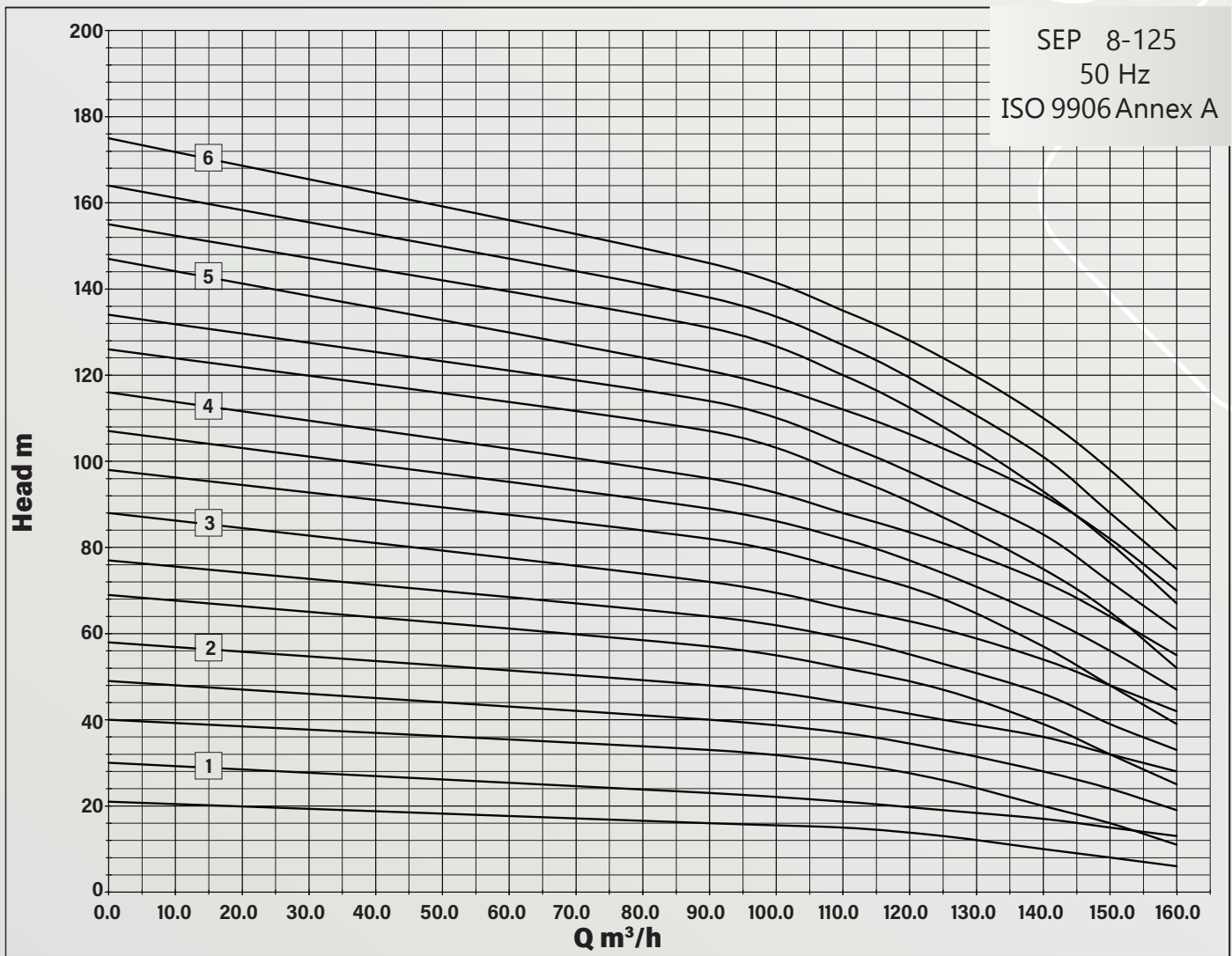
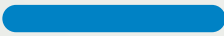
# STAINLESS STEEL SUBMERSIBLE SEP 8-110 SERIES



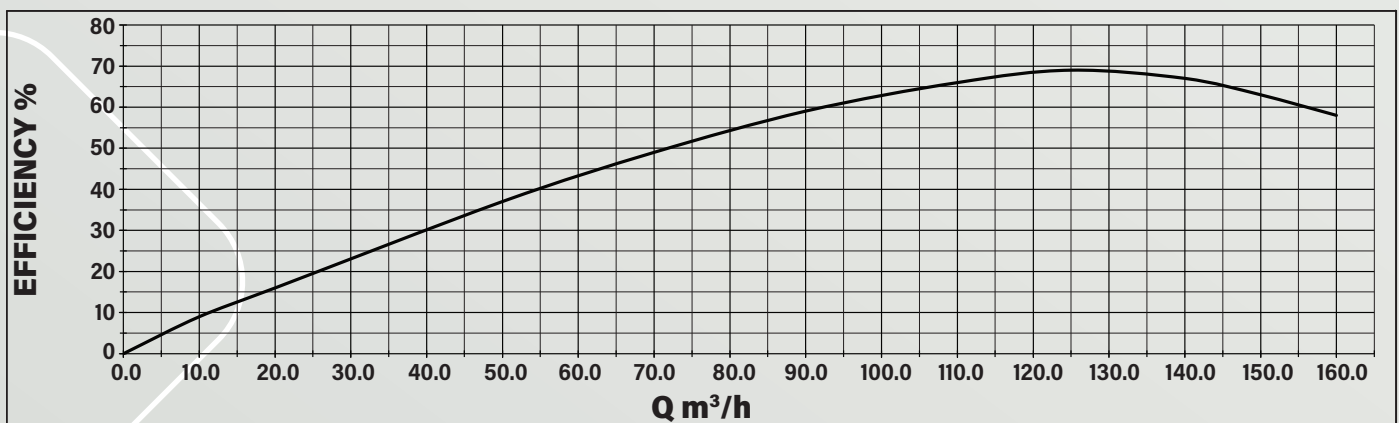
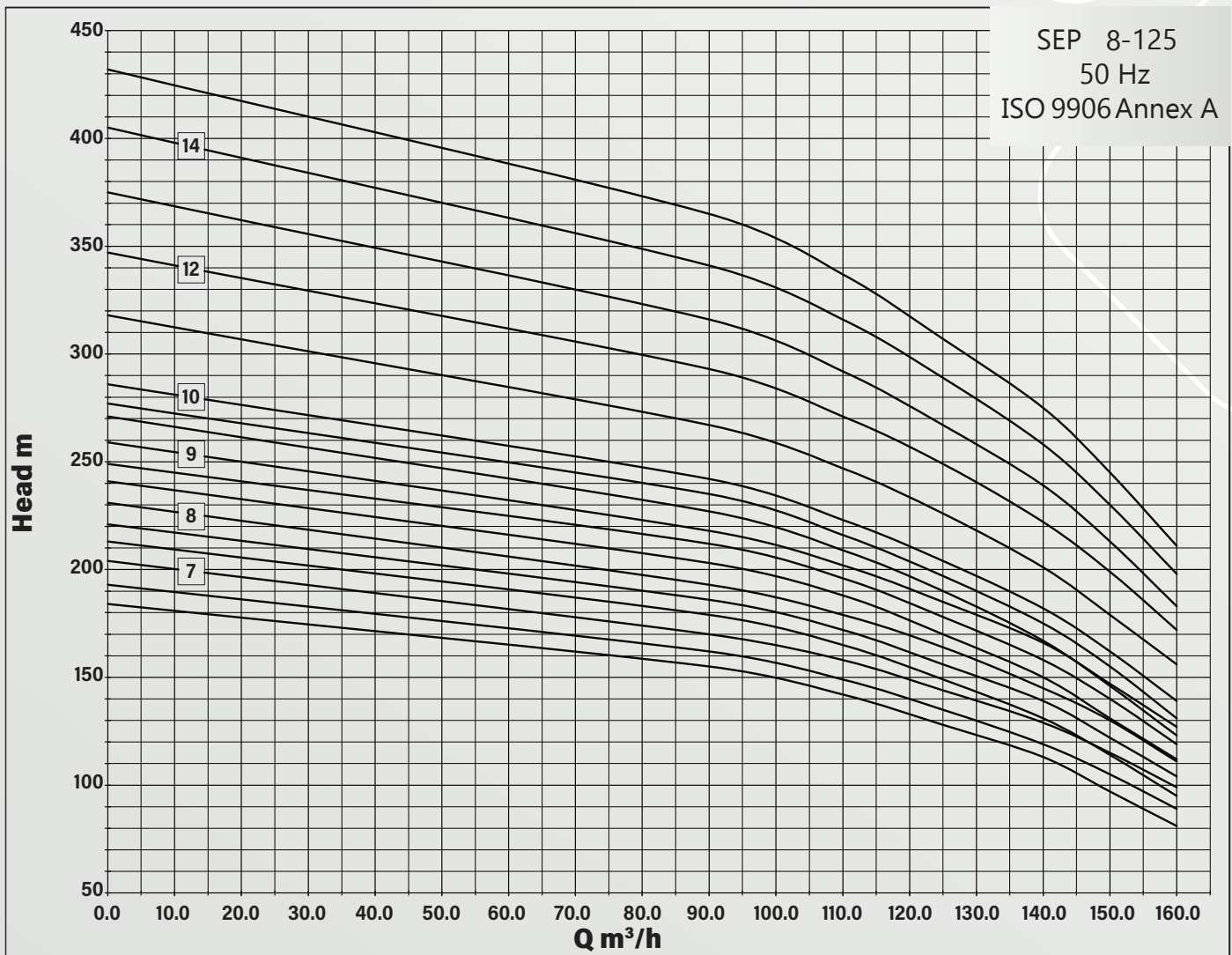
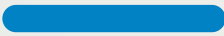
# STAINLESS STEEL SUBMERSIBLE SEP 8-125 SERIES

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

# STAINLESS STEEL SUBMERSIBLE SEP 8-125 SERIES



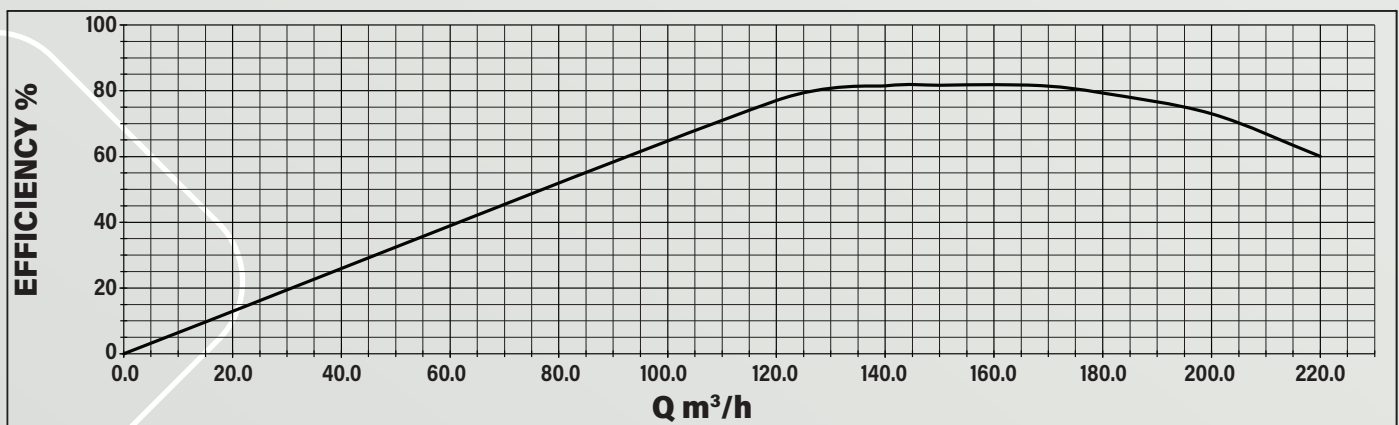
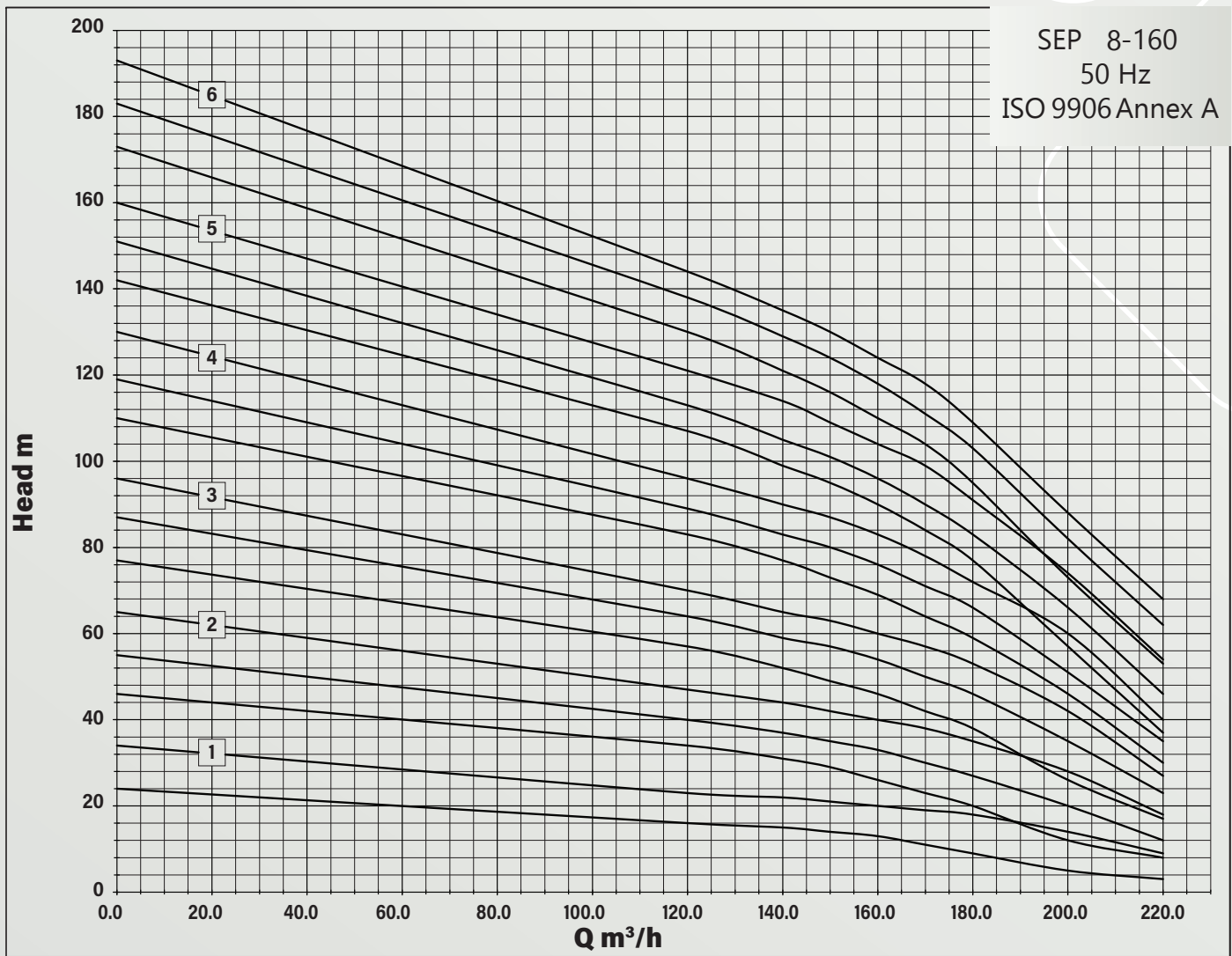
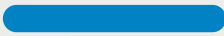
# STAINLESS STEEL SUBMERSIBLE SEP 8-125 SERIES



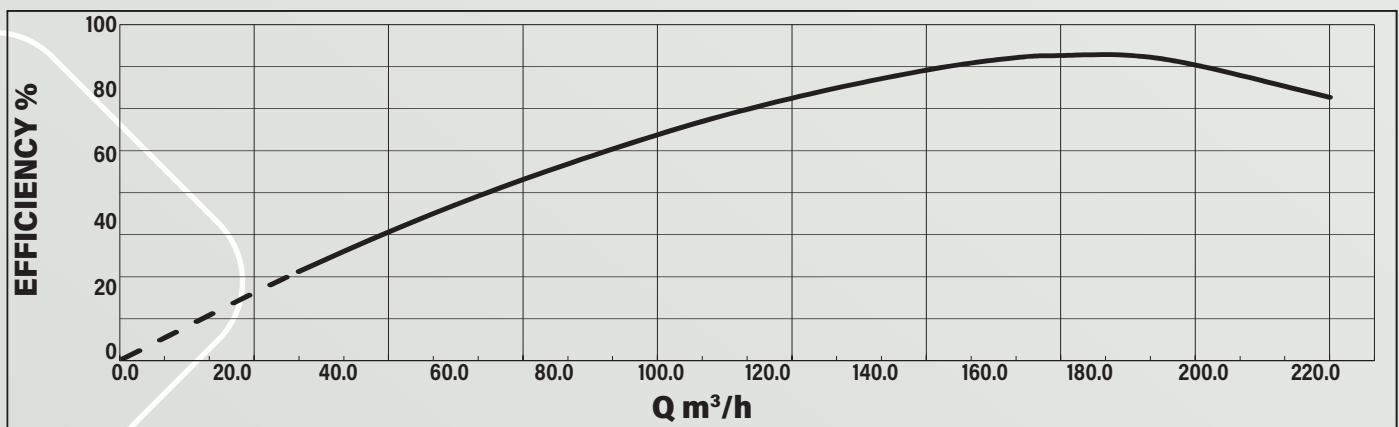
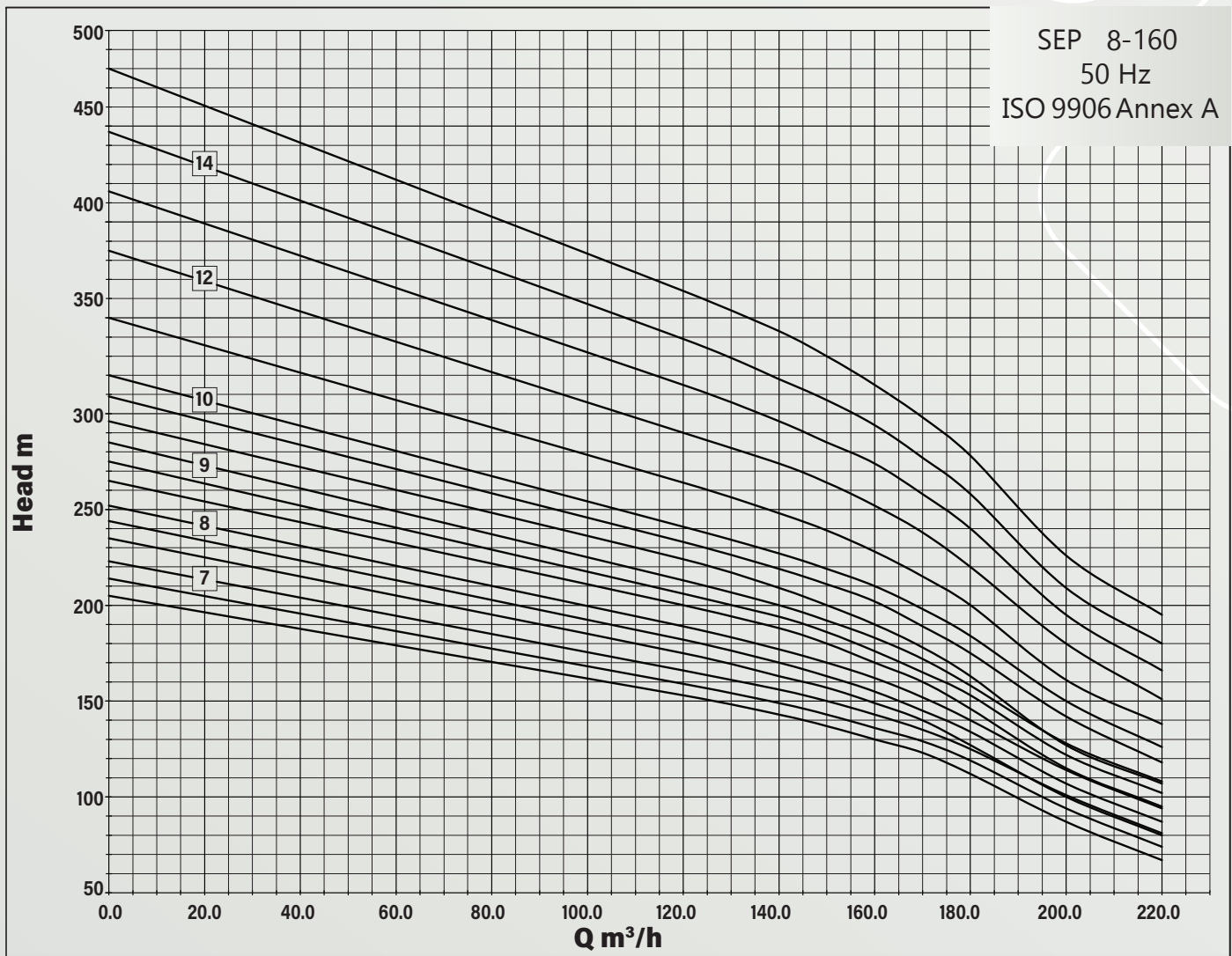
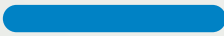
# STAINLESS STEEL SUBMERSIBLE SEP 8-160 SERIES

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

# STAINLESS STEEL SUBMERSIBLE SEP 8-160 SERIES



# STAINLESS STEEL SUBMERSIBLE SEP 8-160 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	1.05 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

# Notes

A series of horizontal dotted lines for writing notes, spaced evenly down the page.



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



**01050500960 - 01033005736  
01050500961 - 01050500962**



**0554413099 - 0554413080**

