

6SDX

Submersible borehole electropumps for 6" wells



RISEWATER



The electropumps 6SDX, 6SDXL series comply with the European Regulation no. 547/2012

Materials

Components	Materials
External jacket	Cr-Ni steel AISI 304
Suction lantern	Cr-Ni steel AISI 304
Upper cover	Cr-Ni steel AISI 304
Delivery casing	Cr-Ni steel AISI 304
Strainer, Valve set	Cr-Ni steel AISI 304
O-ring valve	NBR
Shaft	Cr-Ni steel AISI 431
Coupling set	Cr-Ni steel AISI 304
Diffuser	Cr-Ni steel AISI 304
Stage casing	Cr-Ni steel AISI 304
Impeller	Cr-Ni steel AISI 304
Wear ring	NBR
Bearing bush	NBR
Cable guard, Screws	Cr-Ni-Mo steel AISI 316

Construction

Submersible borehole pumps for 6" wells with external jacket and stages in stainless steel AISI 304.

Impellers: Mixed flow impellers

Connection: Screwed connection ISO 228

Delivery casing with built-in non-return valve.

Applications

For water supply.

For civil and industrial applications.

For fire fighting applications.

For irrigation.

Operating conditions

Liquid temperature up to 30 °C.

Max. sand quantity into the water: 50 g/m³

Continuous duty.

Rewindable motor MS series

2-pole induction motor, 50 Hz (n ≈ 2900 rpm).

Sized for connection to the pumps according to NEMA Standards.

Standard voltages:

- single-phase 230 V up to 2,2 kW for 4" motors.

- three-phase 230 V; 400 V, for 4" motors.

- three-phase 400 V; 400/690 V, for 6" motors.

Voltage tolerance : +6% / -10%.

In order to limit both current and torque at each starting, for rated motor powers equal to or higher than 7.5 kW, one of the following types of starting is necessary: star/delta, soft starter, stator impedance or autotransformer.

Operating conditions motor

Motor	Max. Liquid temperature	Cooling: minimum flow velocity	Max. starts per hour	Motor P2
4MS	35 °C	0,08 m/s	20	all types
6MS	30 °C	0,1 m/s	15	4÷11 kW
		0,2 m/s	15	13÷15 kW
	25 °C	0,2 m/s	15	18,5 kW
		0,2 m/s	13	22÷30 kW
		0,1 m/s	13	37 kW
	40 °C	0,3 m/s	6	45 kW

Insulation class F for 4" motors, class E for 6" motors.

Motor suitable operation with frequency converter .

Protection IP 68.

Special features on request

- Other voltages.

- 60 Hz frequency.

- Other temperatures.

Designation

6 SDX 45 / 17

Ø of the well in inches _____

Series _____

Stage identification _____

Number of stages _____

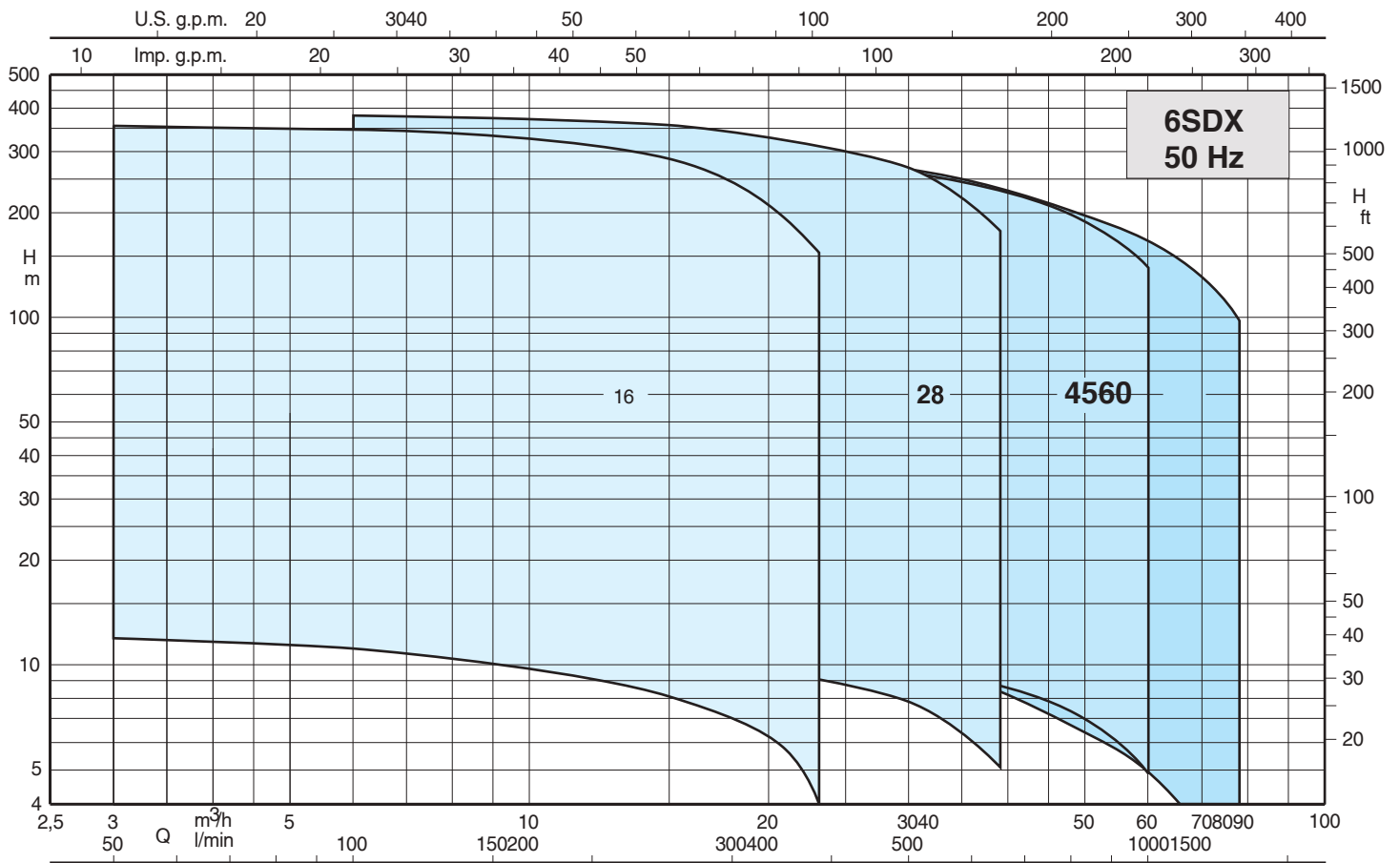
6SDX

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Coverage chart $n \approx 2900$ rpm



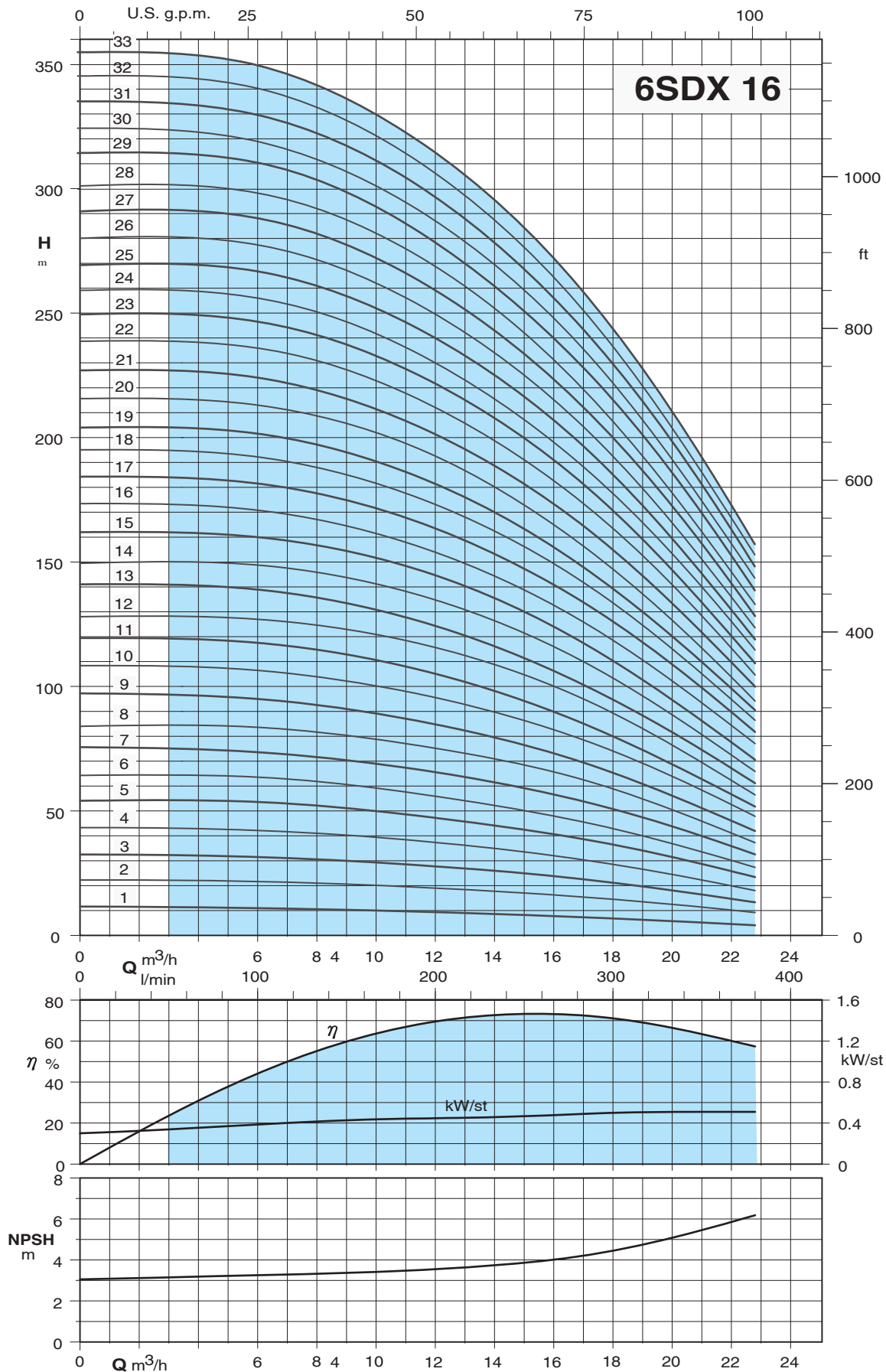
6SDX 16

Submersible borehole electropumps for 6" wells



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Characteristic curves



6SDX 16

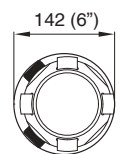
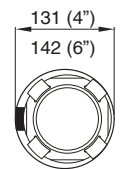
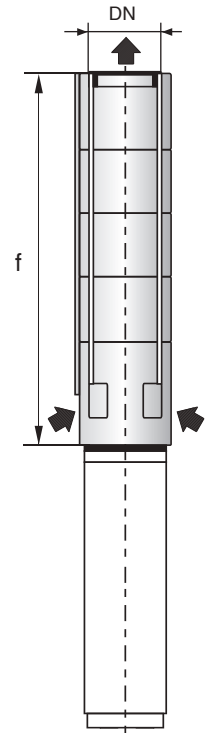
Submersible borehole electropumps for 6" wells



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Performance $n \approx 2900$ rpm, dimensions and weights

3 ~	P ₂		Q	n ≈ 2900 1/min									DN	Motore Ø mm	f mm	kg
				m ³ /h	0	3	6	9	12	15	18	21				
	l/min	0	50	100	150	200	250	300	350	383	H m					
6SDX 16/1	0.55	0.75	H m	12	12	11	11	10	8	7	6	4	Rp 3"	96 4"	343	5.0
6SDX 16/2	1.1	1.5		22	22	22	20	19	18	14	12	9			403	6.4
6SDX 16/3	2.2	3		32	32	32	30	28	25	21	17	13			464	7.9
6SDX 16/4	2.2	3		43	43	42	40	38	33	29	23	18			524	9.3
6SDX 16/5	3	4		53	53	52	51	48	43	37	29	22			585	10.8
6SDX 16/6	3.7	5		64	64	63	60	56	50	43	34	27			645	12.2
6SDX 16/7	4	5.5		75	75	74	70	66	59	51	40	32			706	13.7
6SDX 16/8	5.5	7.5		85	85	84	80	75	68	59	46	37			766	15.1
6SDX 16/9	5.5	7.5		97	97	95	91	85	77	65	51	42			827	16.6
6SDX 16/10	5.5	7.5		108	108	107	102	95	86	74	58	48			887	18.0
6SDX 16/11	7.5	10		119	119	118	113	105	94	80	63	52	948	19.5		
6SDX 16/12	7.5	10		128	128	127	123	116	105	89	69	57	1008	20.9		
6SDX 16/13	7.5	10		141	141	139	133	124	112	95	75	60	1069	22.4		
6SDX 16/14	9.3	12.5		150	150	149	144	135	122	103	81	66	1129	23.9		
6SDX 16/15	9.3	12.5		162	162	160	155	145	130	110	86	71	1190	25.3		
6SDX 16/16	9.3	12.5		173	173	171	165	154	139	119	93	77	1250	26.8		
6SDX 16/17	9.3	12.5		184	184	182	175	163	147	126	100	80	1311	28.2		
6SDX 16/18	9.3	12.5		195	195	192	185	173	156	134	105	86	1371	29.7		
6SDX 16/19	11	15		204	204	202	194	181	163	139	110	91	1432	31.1		
6SDX 16/20	11	15		216	216	213	206	192	173	147	116	95	1492	32.5		
6SDX 16/21	11	15		227	227	224	216	201	182	155	122	100	1553	34.0		
6SDX 16/22	13	17.5		239	239	237	228	212	190	163	129	105	1613	35.4		
6SDX 16/23	13	17.5		250	250	247	237	222	200	171	134	109	1674	36.9		
6SDX 16/24	13	17.5		260	260	257	247	230	208	178	140	115	1734	38.3		
6SDX 16/25	15	20		270	270	267	257	240	217	185	145	119	1795	39.8		
6SDX 16/26	15	20		281	281	278	267	250	225	192	151	124	1855	41.2		
6SDX 16/27	15	20		291	291	288	277	259	234	200	158	128	1916	42.7		
6SDX 16/28	18.5	25		302	302	298	288	269	242	207	162	133	1976	44.2		
6SDX 16/29	18.5	25		314	314	311	300	279	250	215	170	138	2037	45.6		
6SDX 16/30	18.5	25		324	324	319	307	288	260	222	175	144	2097	47.1		
6SDX 16/31	18.5	25		335	335	330	318	298	269	230	181	148	2158	48.5		
6SDX 16/32	18.5	25		345	345	341	328	307	277	237	187	153	2218	50.0		
6SDX 16/33	18.5	25		355	355	350	337	315	285	243	191	157	2279	51.4		
													145 6"			



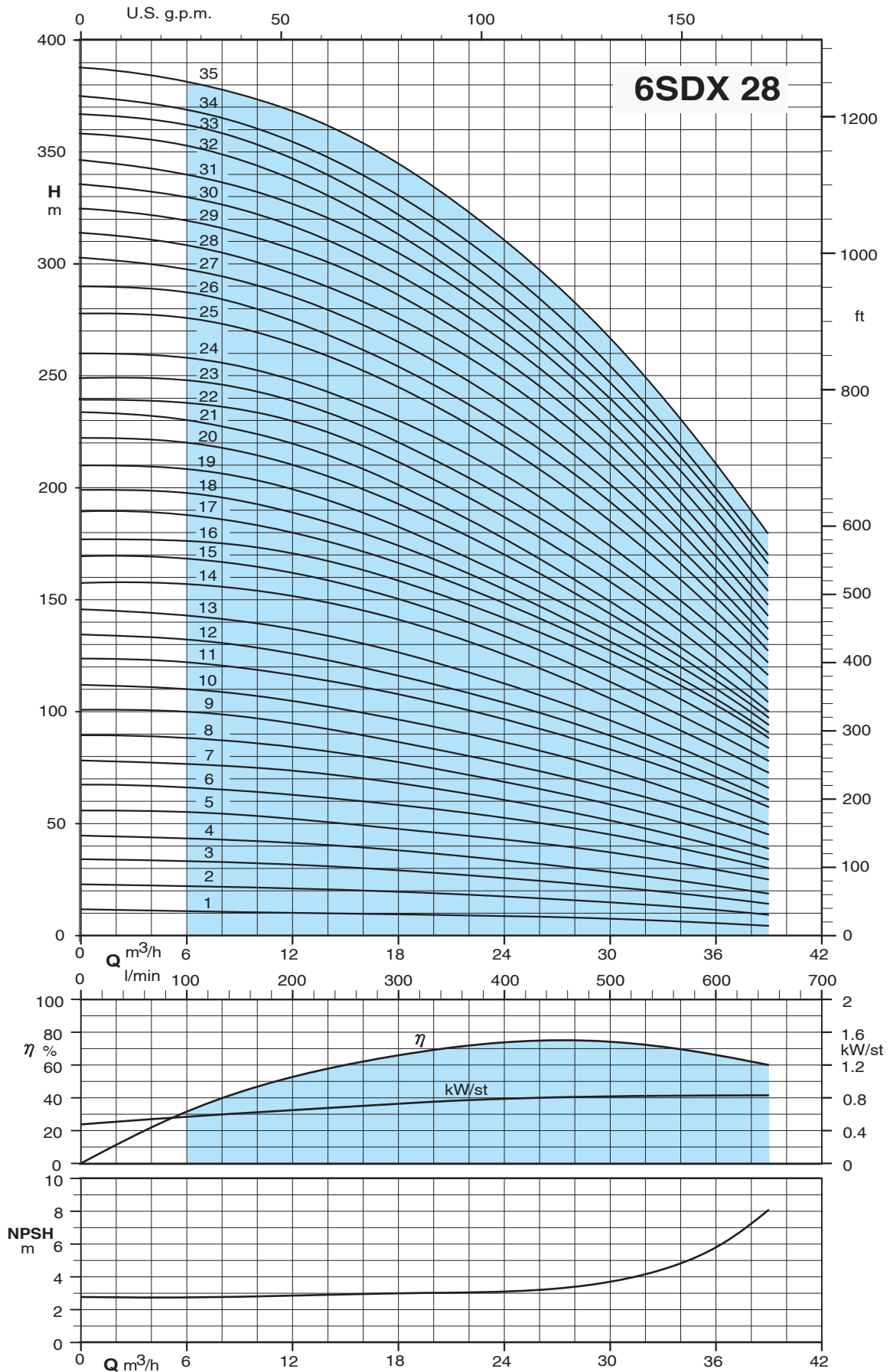
6SDX 28

Submersible borehole electropumps for 6" wells



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Characteristic curves



6SDX 28

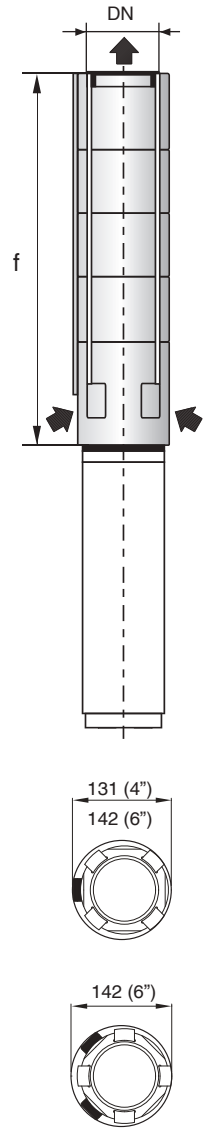
Submersible borehole electropumps for 6" wells



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Performance $n \approx 2900$ rpm, dimensions and weights

3 ~	P ₂		Q	n ≈ 2900 l/min													DN	Motore	
				H														Ø	f
	kW	HP		m ³ /h	0	6	9	12	15	18	21	24	27	30	33	36		39	mm
		l/min	0	100	150	200	250	300	350	400	450	500	550	600	650				
6SDX 28/1	1,1	1,5		11	11	11	10	10	10	9	9	8	8	7	6	5		366	6.7
6SDX 28/2	2,2	3		23	23	22	21	20	19	18	17	16	15	13	11	9		462	8.4
6SDX 28/3	3	4		33	33	32	31	30	29	28	26	24	22	20	17	14		558	10.1
6SDX 28/4	3,7	5,00		44	43	42	41	40	38	36	34	31	28	26	23	19		654	11.8
6SDX 28/5	5,5	7,50		56	55	54	52	50	48	45	43	40	37	34	29	25		750	13.5
6SDX 28/6	5,5	7,50		68	67	64	62	60	58	56	52	49	45	40	36	30		846	15.2
6SDX 28/7	7,5	10		79	77	76	74	71	68	65	61	56	52	46	40	34		942	16.9
6SDX 28/8	7,5	10		90	88	87	84	81	78	73	68	64	58	53	46	38		1038	18.6
6SDX 28/9	9,3	12,5		101	100	98	95	91	87	82	77	72	66	60	53	45		1134	20.3
6SDX 28/10	9,3	12,5		112	110	108	105	101	97	92	86	81	74	67	58	50		1230	22
6SDX 28/11	11	15		124	122	120	117	112	108	102	97	90	83	76	67	57		1326	23.6
6SDX 28/12	11	15		134	132	130	126	121	116	110	104	97	89	81	71	61		1422	25.3
6SDX 28/13	11	15		146	143	140	137	132	127	120	113	105	97	87	77	66		1518	27
6SDX 28/14	13	17,5		158	157	155	152	147	141	134	126	116	108	95	84	73		1614	29.7
6SDX 28/15	15	20		170	168	166	162	157	150	142	134	124	113	102	90	77		1710	30.4
6SDX 28/16	15	20		178	176	174	171	165	159	151	142	132	122	110	97	84		1806	32.1
6SDX 28/17	15	20		190	188	185	180	173	167	158	148	138	127	116	103	88		1902	33.8
6SDX 28/18	18,5	25		199	198	194	189	182	174	165	155	143	130	119	106	90		1998	35.5
6SDX 28/19	18,5	25		210	208	205	199	192	182	172	161	150	137	125	110	94		2094	37.2
6SDX 28/20	18,5	25		222	220	216	210	202	193	182	170	157	144	129	114	97		2190	38.9
6SDX 28/21	18,5	25		232	230	226	220	212	202	190	177	164	149	134	117	100		2286	40.6
6SDX 28/22	22	30		240	238	235	230	222	212	200	187	173	159	142	124	104		2382	42.3
6SDX 28/23	22	30		250	248	245	239	231	221	209	196	182	167	150	131	110		2478	44
6SDX 28/24	22	30		260	258	254	248	240	230	219	207	191	175	156	137	117		2574	45.6
6SDX 28/25	22	30		278	276	272	265	256	245	233	219	203	187	166	145	122		2670	47.3
6SDX 28/26	22	30		290	287	282	275	266	255	242	227	212	194	173	152	127		2766	49
6SDX 28/27	26	35		302	298	293	286	277	265	253	238	221	202	181	157	132		2862	50.7
6SDX 28/28	26	35		313	309	303	296	287	276	263	248	231	212	189	164	137		2958	52.4
6SDX 28/29	26	35		325	319	314	307	298	287	273	257	240	220	196	170	143		3054	54.1
6SDX 28/30	26	35		336	330	325	317	307	295	282	266	248	227	202	176	148		3150	55.8
6SDX 28/31	26	35		347	340	335	327	317	305	291	275	256	234	209	183	154		3246	57.5
6SDX 28/32	30	40		358	353	347	338	327	313	298	281	261	240	217	190	160		3342	59.2
6SDX 28/33	30	40		367	362	356	347	336	322	307	289	270	248	223	196	166		3438	60.9
6SDX 28/34	30	40		375	369	363	355	344	331	316	298	278	255	229	200	170		3534	62.6
6SDX 28/35	30	40		388	382	377	368	358	346	329	311	290	267	240	211	180		3630	64.3



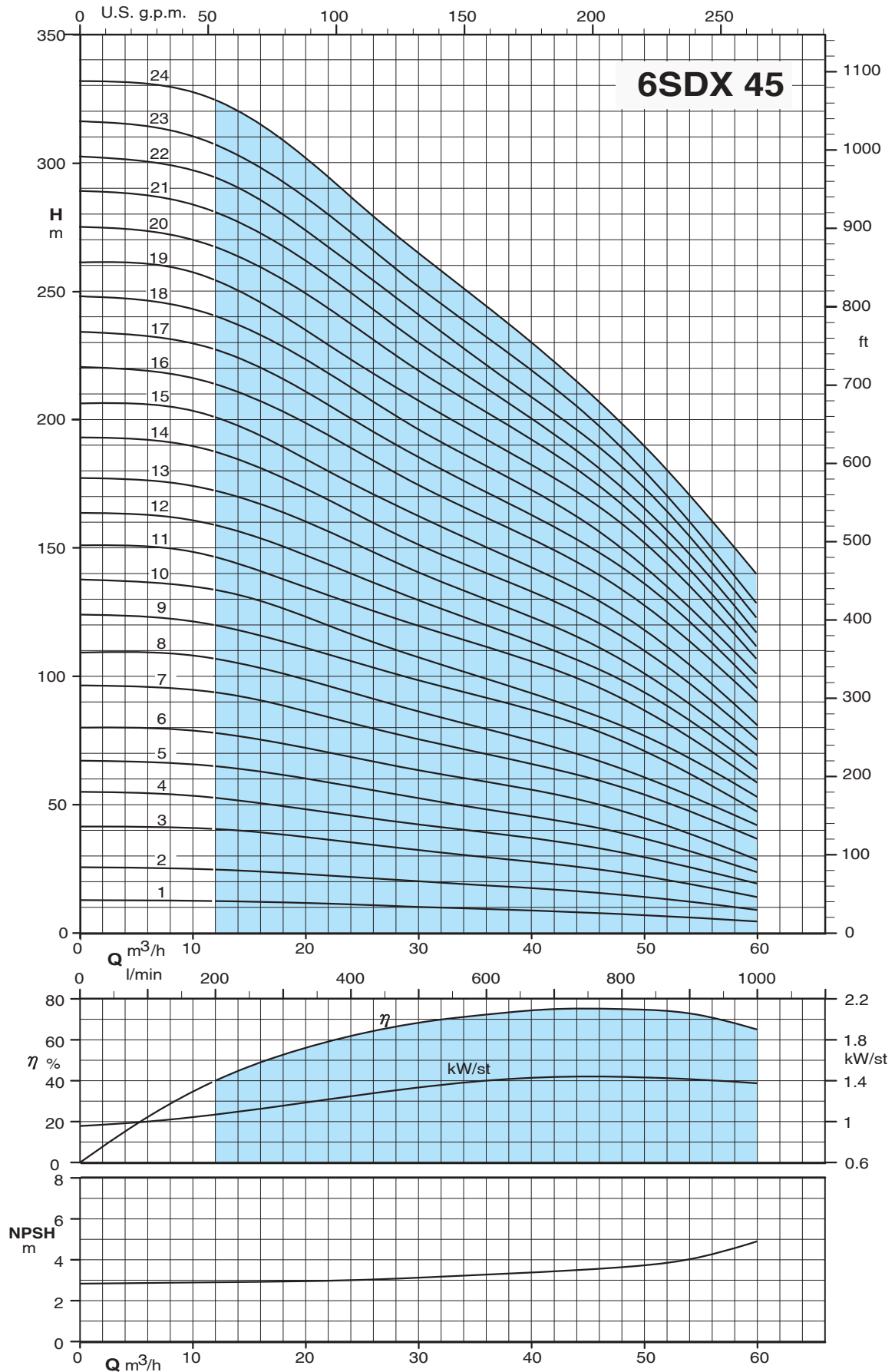
6SDX 45

Submersible borehole electropumps for 6" wells



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Characteristic curves



6SDX 45

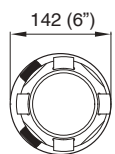
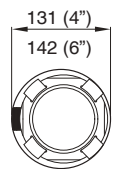
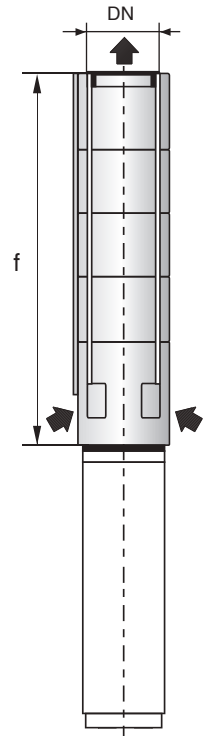
Submersible borehole electropumps for 6" wells



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Performance $n \approx 2900$ rpm, dimensions and weights

3 ~	P ₂		Q	n \approx 2900 l/min														DN	Motore	f	kg
				m ³ /h																	
	kW	HP		l/min	0	12	15	18	21	24	27	30	36	42	48	54	60				
6SDX 45/1	2.2	3	13	13	13	12	12	11	11	10	9	9	8	6	5	96	383	6.9			
6SDX 45/2	3	4	25	24	24	23	23	22	21	20	18	17	15	12	9	96	496	9.2			
6SDX 45/3	5.5	7.5	41	40	39	38	37	35	34	33	29	27	23	18	14	96	609	11.5			
6SDX 45/4	7.5	10	54	53	51	49	48	46	44	42	39	36	31	26	19	145	722	13.8			
6SDX 45/5	7.5	10	67	65	63	61	59	57	55	53	48	44	39	32	24	145	835	16			
6SDX 45/6	9.3	12.5	80	78	76	74	71	69	66	63	59	54	48	39	29	145	948	18.3			
6SDX 45/7	11	15	97	94	92	88	85	82	79	76	70	64	57	47	37	145	1061	20.6			
6SDX 45/8	13	17.5	110	107	104	101	97	94	90	86	79	73	64	54	42	145	1174	22.9			
6SDX 45/9	15	20	124	120	117	114	110	106	102	98	92	85	75	62	47	145	1287	25.2			
6SDX 45/10	15	20	138	133	130	127	122	117	112	107	98	90	80	67	53	145	1400	27.4			
6SDX 45/11	18.5	25	151	146	142	138	133	128	124	120	112	103	91	76	59	145	1513	29.7			
6SDX 45/12	18.5	25	163	158	155	150	145	140	135	130	120	110	98	83	64	145	1626	32			
6SDX 45/13	22	30	178	172	169	164	158	152	146	140	130	120	106	89	69	145	1739	34.3			
6SDX 45/14	22	30	193	187	183	177	171	164	158	151	140	129	115	97	75	145	1852	36.6			
6SDX 45/15	22	30	207	200	195	189	183	176	169	163	150	138	124	103	81	145	1965	38.8			
6SDX 45/16	26	35	220	214	209	203	196	189	182	174	162	149	134	113	90	145	2078	41.1			
6SDX 45/17	26	35	234	227	222	215	208	200	193	186	172	158	143	121	96	145	2191	43.4			
6SDX 45/18	30	40	248	240	235	229	221	213	204	196	182	168	150	127	101	145	2304	45.7			
6SDX 45/19	30	40	261	254	248	241	233	224	216	208	193	178	160	136	107	145	2417	47.9			
6SDX 45/20	30	40	275	267	262	255	246	238	228	219	203	187	167	142	112	145	2530	50.2			
6SDX 45/21	37	50	289	280	275	268	259	250	240	230	212	195	174	148	117	145	2643	52.5			
6SDX 45/22	37	50	302	294	288	280	270	260	251	241	222	203	183	155	123	145	2756	54.8			
6SDX 45/23	37	50	317	307	301	293	283	273	262	252	232	213	189	161	129	145	2869	57.1			
6SDX 45/24	37	50	332	325	317	309	298	287	276	265	244	223	199	171	140	145	2982	59.3			



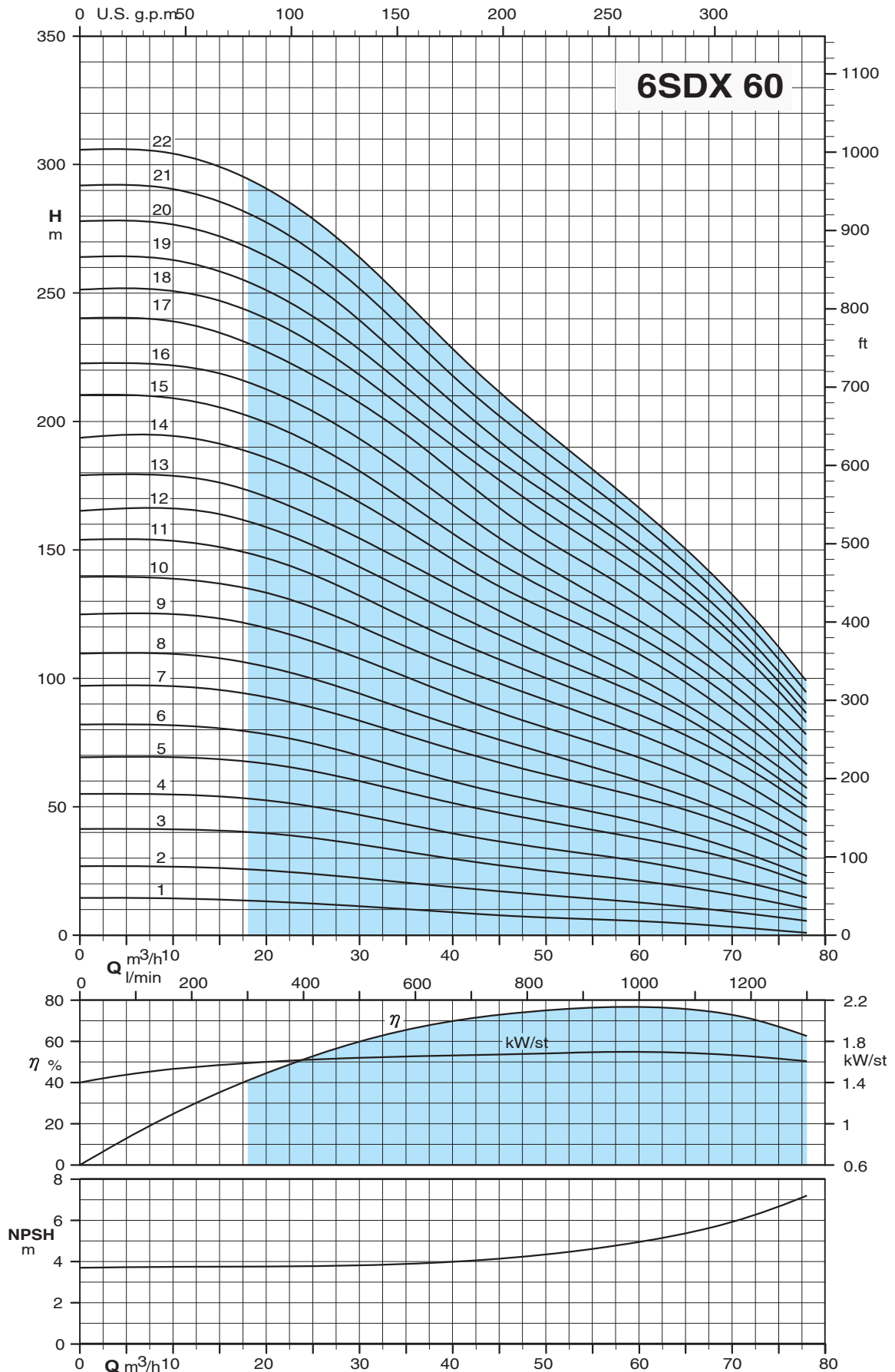
6SDX 60

Submersible borehole electropumps for 6" wells



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Characteristic curves



6SDX 60

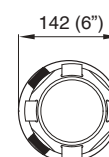
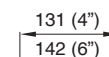
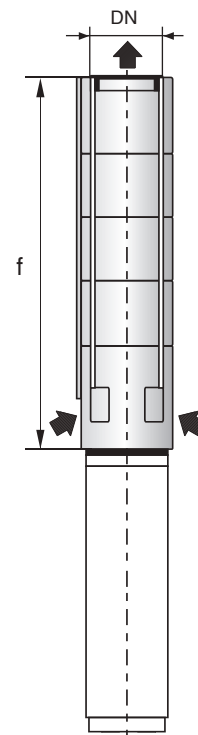
Submersible borehole electropumps for 6" wells



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Performance $n \approx 2900$ rpm, dimensions and weights

3 ~	P ₂		Q	n ≈ 2900 r/min													DN	Motore		
				m³/h														Ø	f	kg
	kW	HP		l/min	0	18	21	24	30	36	42	48	54	60	66	72				
6SDX 60/1	2.2	3	H m	14	13	13	12	11	10	8	7	6	5	4	2	1	Rp 4"	96	383	6.9
6SDX 60/2	3.7	5		28	26	25	24	22	20	18	16	14	13	11	8	5		4"	496	9.2
6SDX 60/3	5.5	7.5		42	40	39	38	36	32	28	26	24	21	18	14	10		609	11.5	
6SDX 60/4	7.5	10		55	53	52	51	47	43	38	35	32	28	25	20	14		722	13.7	
6SDX 60/5	9.3	12.5		69	67	66	64	60	55	50	46	42	38	33	27	19		835	16.0	
6SDX 60/6	11	15		82	79	78	76	70	64	58	53	48	44	38	32	23		948	18.3	
6SDX 60/7	13	17.5		98	94	92	89	84	77	70	64	59	54	47	40	29		1061	20.6	
6SDX 60/8	15	20		110	106	104	101	94	87	80	73	67	60	53	44	33		1174	22.9	
6SDX 60/9	18.5	25		126	122	118	116	108	99	91	83	76	69	61	51	38		1287	25.1	
6SDX 60/10	18.5	25		140	135	132	128	120	111	102	95	87	78	68	57	45		1400	27.4	
6SDX 60/11	22	30		153	148	146	142	132	122	112	103	95	86	76	64	49		1513	29.7	
6SDX 60/12	22	30		166	162	157	153	143	133	122	112	103	94	83	68	53		1626	32.0	
6SDX 60/13	26	35		179	173	169	165	155	143	132	121	110	100	87	73	57		1739	34.3	
6SDX 60/14	26	35		195	188	184	180	168	156	142	130	120	109	96	80	63		1852	36.5	
6SDX 60/15	26	35		210	203	197	193	180	166	152	138	127	116	103	86	67		1965	38.8	
6SDX 60/16	30	40		222	216	211	206	193	178	162	148	135	123	108	92	72		2078	41.1	
6SDX 60/17	37	50		239	230	226	220	207	192	175	158	145	132	116	97	78		2191	43.4	
6SDX 60/18	37	50		252	243	238	233	218	202	185	170	155	141	126	107	83		2304	45.7	
6SDX 60/19	37	50		263	254	249	243	228	210	193	177	163	148	131	110	86		2417	48.0	
6SDX 60/20	37	50		278	267	263	256	239	220	201	184	168	153	136	115	90		2530	50.2	
6SDX 60/21	37	50		292	281	276	269	252	232	211	194	177	161	142	120	95		2463	52.5	
6SDX 60/22	37	50		306	295	289	282	264	243	221	202	184	167	147	125	99		2784	60.2	





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