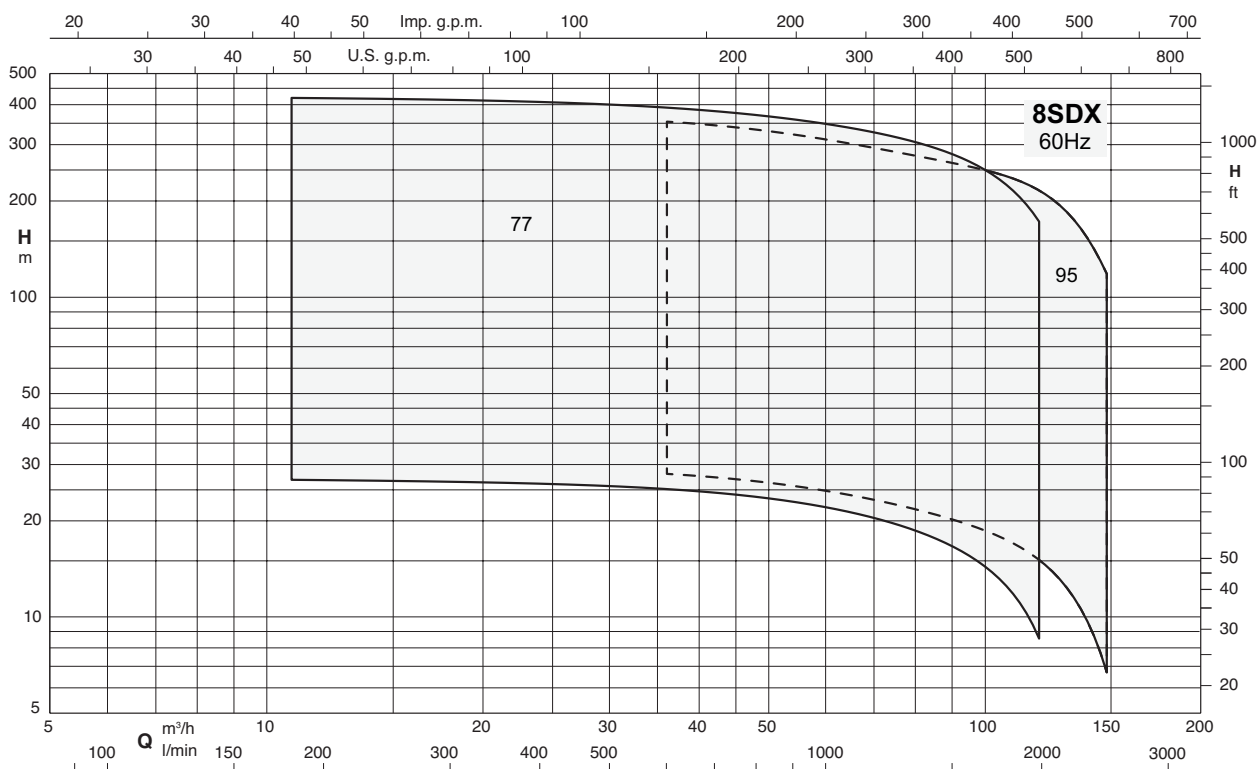




Coverage chart $n \approx 3450$ 1/min



Submersible borehole pumps for 8"

Construction

Submersible borehole pumps for 8" (DN 200 mm).

8 SDX: with outer jacket and stages made of steel 1.4301 EN 10088 (AISI 304).

Impellers

mixed flow impellers:

8SDX 77-95

Connection: Threaded Rp 5"

Delivery casing with built-in non-return valve.

Applications

For water supply systems.

For civil and industrial applications.

For fire fighting applications.

For irrigation.

Operating conditions

Liquid temperature:

- 60 °C for 8SDX

Maximum amount of sand in the water:

- 50 g/m³ 8SDX

Continuous duty.

Designation

Example: 8SDX 77/11-60 8SM

8 = Well diameter in inches

SDX = Series

77 = Stage identification

11 = Number of stages

8SM = Motor flange coupling

60 = Frequency 60Hz

The electropumps comply with the European Regulation no. 547/2012.

Motor

2-pole induction motor, 60 Hz ($n \approx 3450$ 1/min).

Sized for connection to the pumps according to NEMA Standards (10" excluded).

Standard voltages:

three-phase

400 V; 400/690 V for 6-8-10" motors.

Voltage tolerance : $\pm 10\%$

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.

Protection IP 68.

Installation below water level: 100 m for 4", 150 m for 6,8,10".

Motor suitable operation with frequency converter (with suitable filter dv/dt).

Horizontal installation (6" 37-45kW, 8" 92kW, 10" 170-190 kW excluded)

Motor	Motor P2	Max. Liquid temperature	Cooling minimum flow velocity	Max n° of starting x hour
4CS-R	all	35 °C	0,1 m/s	30
6CS-R	4÷15 kW	40 °C	0,5 m/s	20
6CS-R	18,5÷30 kW	35 °C	0,5 m/s	20
6CS-R	37 kW	30 °C	0,5 m/s	20
8CS-R	30÷45 kW	30 °C	0,2 m/s	10
8CS-R	51 kW	30 °C	0,2 m/s	8
8CS-R	59÷75 kW	30 °C	0,5 m/s	8
8CS-R	92÷110 kW	30 °C	0,5 m/s	6
10CS-R	all	25 °C	0,5 m/s	6

Special features on request

Other voltages.

High temperatures.

Encapsulated motor FK series.

Components	8SDX
External jacket	Cr-Ni steel AISI 304
Suction lantern	Cr-Ni steel AISI 304
delivery casing	Cr-Ni steel AISI 304
Filter	Cr-Ni steel AISI 304
Valve set	Cr-Ni steel AISI 304
O-ring valve	NBR
Shaft	Steel Cr AISI 431
Coupling set	Steel Cr AISI 431
Diffuser	Cr Ni Steel AISI 304L
Stage casing	Cr-Ni steel AISI 304
Impeller	Cr Ni Steel AISI 304L
Wear ring	NBR/HNBR
Bearing bush	NBR
Cable guard Screws	Cr-Ni steel AISI 304

Attention for complete materials refer to the Pump Selector on the Calpeda website

Performance n ≈ 3450 1/min

Three-phase

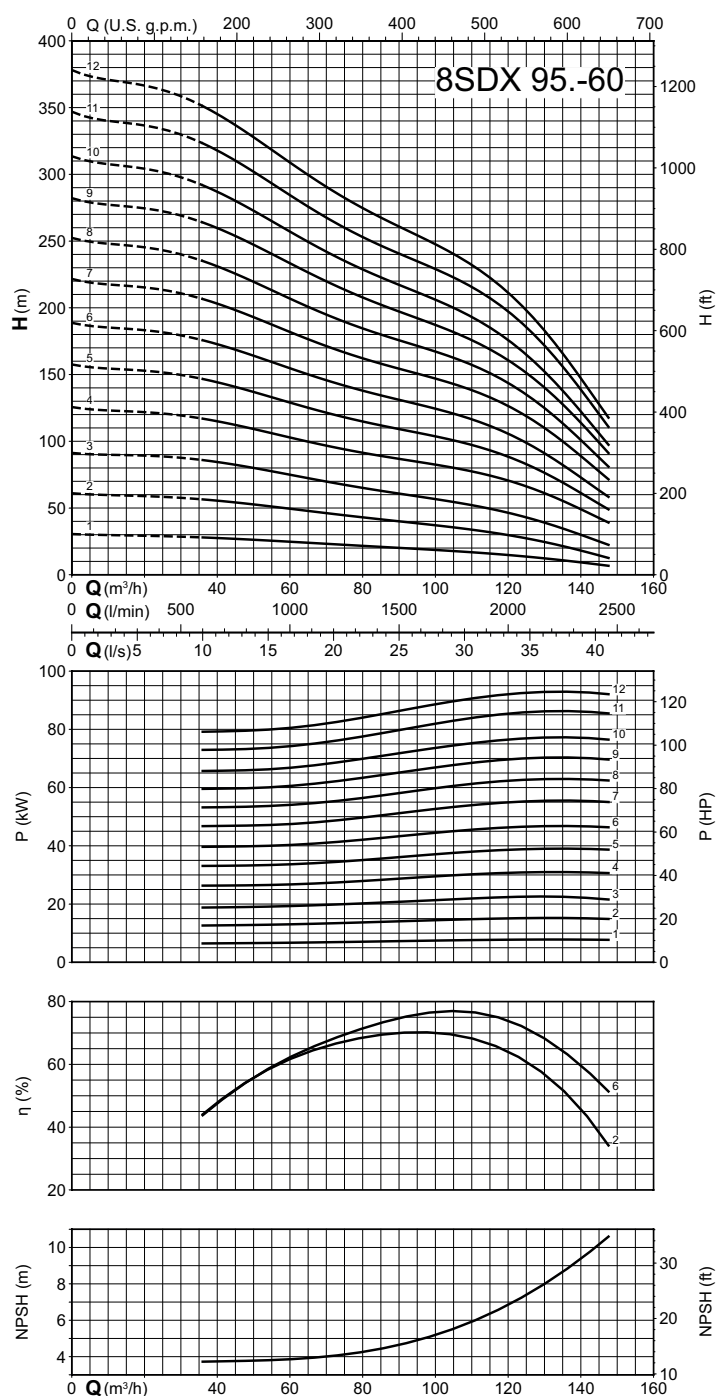
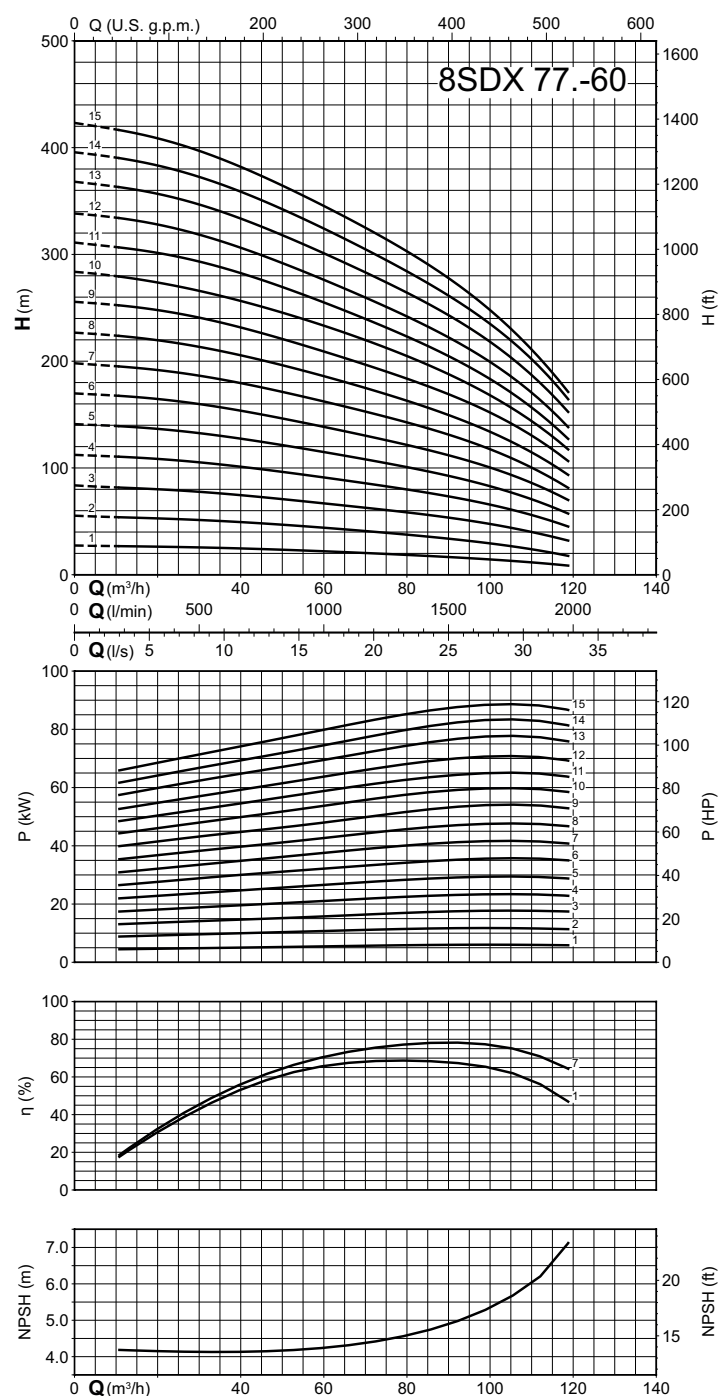
			Q = Flow													
			m³/h	0	10,8	20	30	40	50	60	70	80	90	100	110	117
Model	P2		l/min		180	333	500	667	833	1000	1170	1330	1500	1670	1830	1950
	kW	HP	H (m) = Total head													
8SDX 77/1-60 6SM	7.5	10		27,4	26,8	26,3	25,6	24,7	23,5	22	20,4	18,6	16,6	14,4	11,6	9,2
8SDX 77/2-60 6SM	13	17,5		55,3	53,9	52,8	51,3	49,4	46,9	44,1	41	37,6	33,8	29,4	23,9	19,1
8SDX 77/3-60 6SM	18.5	25		83,7	81,7	80,1	77,7	74,6	70,9	66,9	62,8	58,5	53,6	47,6	40,1	33,8
8SDX 77/4-60 6SM	26	35		112	111	109	106	102	96,4	91,2	85,7	79,9	73,5	65,7	56	47,6
8SDX 77/5-60 6SM	30	40		139	137	135	131	126	120	114	107	98,7	90,4	80,6	68,4	57,8
8SDX 77/5-60 8SM	30	40		141	140	137	133	128	122	115	109	101	92,7	83	70,8	60,3
8SDX 77/6-60 6SM	37	50		167	165	162	157	151	144	136	128	119	109	96,1	81,1	68,6
8SDX 77/6-60 8SM	37	50		170	168	165	160	154	147	139	131	122	112	101	86,1	73,6
8SDX 77/7-60 8SM	45	60		198	196	192	187	180	172	163	153	143	132	118	101	85,6
8SDX 77/8-60 8SM	51	70		227	224	220	214	206	197	186	175	163	150	134	115	98,3
8SDX 77/9-60 8SM	59	80		256	253	248	241	232	221	210	197	184	170	152	131	112
8SDX 77/10-60 8SM	66	90		284	280	274	266	257	246	234	220	205	188	169	144	124
8SDX 77/11-60 8SM	66	90		311	307	302	294	283	270	256	240	224	205	184	157	134
8SDX 77/12-60 8SM	75	100		338	335	329	319	307	292	277	260	242	223	200	171	146
8SDX 77/13-60 8SM	92	125		368	363	357	347	334	319	302	284	265	244	219	188	161
8SDX 77/14-60 8SM	92	125		396	391	384	373	359	343	325	305	285	262	235	202	173
8SDX 77/15-60 8SM	92	125		423	417	409	398	382	365	346	326	303	278	248	211	180

			Q = Flow													
			m³/h	0	36	40	50	60	70	80	90	100	110	120	130	144
Model	P2		l/min		600	667	833	1000	1170	1330	1500	1670	1830	2000	2170	2400
	kW	HP	H (m) = Total head													
8SDX 95/1-60 6SM	9,2	12,5		30,5	28	27,6	26,3	24,8	23,2	21,7	20,2	18,6	16,9	14,8	12,3	7,9
8SDX 95/2-60 6SM	15	20		61,1	56,5	55,6	52,7	49,5	46,2	43,1	40,1	37,1	33,8	29,8	24,6	15,3
8SDX 95/3-60 6SM	22	30		91,3	86	84,5	80,1	75	69,9	65,1	60,9	56,7	52,2	46,5	39,1	26
8SDX 95/4-60 6SM	30	40		124	115	113	108	101	94,8	89,7	85,3	80,9	75,7	68,5	58,5	41,1
8SDX 95/4-60 8SM	30	40		126	117	116	110	103	96,8	91,4	86,9	82,6	77,5	70,7	61,2	43,9
8SDX 95/5-60 6SM	37	50		154	143	141	134	126	119	112	107	101	93,5	84,2	71,6	50,1
8SDX 95/5-60 8SM	37	50		158	147	145	137	129	122	115	110	104	97,3	88,5	76,4	54,8
8SDX 95/6-60 8SM	45	60		189	176	173	165	155	146	138	132	125	117	106	91,1	65,2
8SDX 95/7-60 8SM	59	80		222	207	204	193	182	172	163	155	147	139	127	110	79,8
8SDX 95/8-60 8SM	66	90		252	236	232	220	207	195	185	176	168	158	144	125	90,5
8SDX 95/9-60 8SM	75	100		282	264	260	248	234	220	208	198	188	176	161	141	103
8SDX 95/10-60 8SM	75	100		314	292	287	273	258	243	229	218	207	194	176	153	110
8SDX 95/11-60 8SM	92	125		347	324	318	302	285	268	253	241	230	216	198	172	125
8SDX 95/12-60 8SM	92	125		378	352	346	328	309	291	275	261	248	233	212	183	132

P2: Rated motor power output.

H: Total head in m

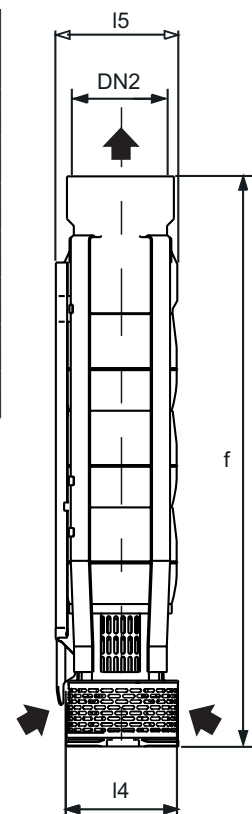
Performance $n \approx 3450$ 1/min



Dimensions and weights

TYPE	DN2	mm			kg
		f	l4	l5	Weight
8SDX 77/1-60 6SM	Rp5	581	163	180	24.6
8SDX 77/2-60 6SM	Rp5	709	163	180	28.6
8SDX 77/3-60 6SM	Rp5	837	163	180	32.7
8SDX 77/4-60 6SM	Rp5	965	163	180	36.8
8SDX 77/5-60 6SM	Rp5	1093	163	180	40.9
8SDX 77/5-60 8SM	Rp5	1099.5	163	193	41.1
8SDX 77/6-60 6SM	Rp5	1221	163	180	44.9
8SDX 77/6-60 8SM	Rp5	1227.5	163	193	45.1
8SDX 77/7-60 8SM	Rp5	1355.5	163	193	49.2
8SDX 77/8-60 8SM	Rp5	1483.5	163	193	53.3
8SDX 77/9-60 8SM	Rp5	1611.5	163	193	57.3
8SDX 77/10-60 8SM	Rp5	1739.5	163	193	61.4
8SDX 77/11-60 8SM	Rp5	1867.5	163	193	65.5
8SDX 77/12-60 8SM	Rp5	1995.5	163	193	69.5
8SDX 77/13-60 8SM	Rp5	2123.5	163	193	73.6
8SDX 77/14-60 8SM	Rp5	2251.5	163	193	77.7
8SDX 77/15-60 8SM	Rp5	2379.5	163	193	81.8

TYPE	DN2	mm			kg
		f	l4	l5	Weight
8SDX 95/1-60 6SM	Rp5	581	163	180	24.5
8SDX 95/2-60 6SM	Rp5	709	163	180	28.5
8SDX 95/3-60 6SM	Rp5	837	163	180	32.5
8SDX 95/4-60 6SM	Rp5	965	163	180	36.5
8SDX 95/4-60 8SM	Rp5	971.5	163	193	36.7
8SDX 95/5-60 6SM	Rp5	1093	163	180	40.5
8SDX 95/5-60 8SM	Rp5	1099.5	163	193	40.7
8SDX 95/6-60 8SM	Rp5	1227.5	163	193	44.7
8SDX 95/7-60 8SM	Rp5	1355.5	163	193	48.7
8SDX 95/8-60 8SM	Rp5	1483.5	163	193	52.7
8SDX 95/9-60 8SM	Rp5	1611.5	163	193	56.7
8SDX 95/10-60 8SM	Rp5	1739.5	163	193	60.7
8SDX 95/11-60 8SM	Rp5	1867.5	163	193	64.7
8SDX 95/12-60 8SM	Rp5	1995.5	163	193	68.7



MOTORS TO CONNECT

STANDARD coupling flange:
 (6SM) NEMA 6, 6" motor;
 (8SM) NEMA 8, 8", 10" motor;
 (12SM) C 12 Coupling, 12", 14" motor;