



## TECHNICAL DATA

**Performance range:** flow up to 75 m<sup>3</sup>/h and max head of 670 m

**Max. quantity of sand/silt:** 50g/m<sup>3</sup>

**Max. ambient temperature:** 30°C (50°C available on request)

**Outlet connection diameter (inside threaded):** SS6 A – SS6 B : 2 ½"  
 SS6 C : 3"  
 SS6 D – SS6 E : 4"

**Nr of starts:** refer to the motor specification

**Motor Cooling flow:** refer to the motor specification

**Installation:** horizontal or vertical, refer to the motor specification

## APPLICATIONS

Multistage mixed-flow borehole electric pumps, completely made in stainless steel (AISI 304L or AISI 316 on request), usable for wells from a minimum diameter equal to pump size or greater and capable of developing a wide range of Flows and Heads.

These pumps can be used in a wide range of lifting, distributing, and pressuring application: domestic and general water supply; sprinkler and drip irrigations systems; fire-fighting installations; lowering of groundwater level; industrial supplies as mining, hot springs, autoclaves and tanks.

These pumps are suitable both for standard water and for aggressive water applications by choosing the proper manufacturing material (AISI 304L or AISI 316) both for hydraulic part and motor.

Special version of motors with PE2+PA windings can be used on request for high-temperature water applications up to maximum 50°C.

Pumps can be installed both vertically and horizontally simply by removing the non-return valve and adding a cooling sleeve to the suction case (the only remark is to check the motor applicability to horizontal operations, refer to the motor specifications section).

## CONSTRUCTION FEATURES OF PUMP

Mixed flow pumps with diffusers, impellers, brackets, suction case and discharge case completely made of stainless steel AISI 304 in order to provide maximum strength, durability, wear and tear resistance.

The impellers are balanced and locked to the shaft with a specially shaped collet and nut coupling, in order to guarantee ease-to-assembly feature and avoid vibration sensitive malfunctions and noise increase during rotation.

Rubber bearings that drive the shaft are water lubricated and have sand channels to make enable the sand particles leave the pump with the pumped liquid (maximum permissible sand content 50 gr/m<sup>3</sup>).

Built-in non returned valve provided in order to minimize local friction losses.

Stainless steel strainer provided in order to prevent particles over a certain size from entering the pump.

Coupling with 6", 8" or 10" motor depending on the power requested by hydraulic part:

- 6GF: 6" canned submersible motor
- TR6: 6" rewindable submersible motor
- TR8: 8" rewindable submersible motor
- TR10: 10" rewindable submersible motor

For inverter application refer to the detailed motor specification.

## ON REQUEST:

- Pump body stainless steel AISI 316 for aggressive water application
- Impellers stainless steel AISI 316
- Motors in full stainless steel AISI 316 for aggressive water application
- Star/Delta starting version
- Special version of the motor for high temperature application
- Non-standard power coupling

# SS6D

## SUBMERSIBLE ELECTRIC PUMPS 6"

### PERFORMANCE 50 Hz - 2 POLES

MODEL	ELECTRICAL DATA		HYDRAULIC DATA											STANDARD MOTOR COUPLING
	P2 NOMINAL		Q=m³h	0	20	25	30	35	40	45	50	55	60	
	kW	HP	Q=l/min	0	333,3	416,6	500	583,3	666,6	750	833,3	916,6	1000	
SS6D 03	5,5	7,5	H (m)	42	38	36	33	31	29	26	24	20	16	6"
SS6D 04	7,5	10		56	50	47	44	41	38	35	32	27	21	6"
SS6D 05	7,5	10		70	63	59	56	52	48	44	39	34	26	6"
SS6D 06	9,3	12,5		84	75	71	67	62	57	53	47	41	31	6"
SS6D 07	11	15		98	88	83	78	72	67	61	55	47	36	6"
SS6D 08	13	17,5		112	101	95	89	83	77	70	63	54	42	6"
SS6D 09	15	20		126	113	107	100	93	86	79	71	61	47	6"
SS6D 10	18,5	25		140	126	119	111	103	96	88	79	68	52	6"
SS6D 11	18,5	25		154	138	130	122	114	105	97	87	74	57	6"
SS6D 12	22	30		168	151	142	133	124	115	105	95	81	62	6"
SS6D 13	22	30		182	163	154	144	134	125	114	102	88	68	6"
SS6D 14	22	30		196	176	166	155	145	134	123	110	95	73	6"
SS6D 15	26,5	35		210	188	178	167	155	144	132	118	101	78	6"
SS6D 16	26,5	35		224	201	190	178	165	153	141	126	108	83	6"
SS6D 17	30	40		238	214	202	189	176	163	149	134	115	88	6"
SS6D 18	30	40		252	226	213	200	186	172	158	142	122	93	6"
SS6D 19	37	50		266	239	225	211	197	182	167	150	128	99	6"

SUBMERSIBLE PUMPS

BOMBARDIER

# SS6D

## SUBMERSIBLE ELECTRIC PUMPS 6"

### PERFORMANCE 50 Hz - 2 POLES

MODEL	ELECTRICAL DATA		HYDRAULIC DATA											STANDARD MOTOR COUPLING
	P2 NOMINAL		Q=m <sup>3</sup> h	0	20	25	30	35	40	45	50	55	60	
	kW	HP	Q=l/min	0	333,3	416,6	500	583,3	666,6	750	833,3	916,6	1000	
SS6D 20	37	50	H (mt)	280	251	237	222	207	192	176	158	135	104	6"
SS6D 21	37	50		294	264	249	233	217	201	184	166	142	109	6"
SS6D 22	37	50		308	276	261	244	228	211	193	173	149	114	6"
SS6D 23	37	50		322	289	273	255	238	220	202	181	155	119	6"
SS6D 24	45	60		336	302	285	267	248	230	211	189	162	125	8"
SS6D 25	45	60		350	314	296	278	259	239	220	197	169	130	8"
SS6D 26	45	60		364	327	308	289	269	249	228	205	176	135	8"
SS6D 27	45	60		378	339	320	300	279	259	237	213	182	140	8"
SS6D 28	45	60		392	352	332	311	290	268	246	221	189	145	8"
SS6D 29	45	60		406	364	344	322	300	278	255	229	196	151	8"
SS6D 30	45	60		420	377	356	333	310	287	264	237	203	156	8"
SS6D 31	55	75		434	390	368	344	321	297	272	244	209	161	8"
SS6D 32	55	75		448	402	379	355	331	307	281	252	216	166	8"
SS6D 33	55	75		462	415	391	366	341	316	290	260	223	171	8"

### PERFORMANCE 50 Hz - 2 POLES

MODEL	ELECTRICAL DATA		Q=m³h Q=l/min	HYDRAULIC DATA										STANDARD MOTOR COUPLING
	P2 NOMINAL			0	20	40	45	50	55	60	65	70	75	
	kW	HP		0	333,3	666,6	750	833,3	916,6	1000	1083,3	1166,6	1250	
SS6E 02	4	5,5	H (m)	30	26	21	20	19	18	17	15	14	11	6"
SS6E 03	5,5	7,5		45	38	31	30	28	27	25	23	20	17	6"
SS6E 04	7,5	10		60	51	42	40	38	36	33	31	27	23	6"
SS6E 05	9,2	12,5		75	64	52	50	47	45	42	38	34	28	6"
SS6E 06	11	15		90	77	62	59	57	54	50	46	41	34	6"
SS6E 07	13	17,5		105	90	73	69	66	63	59	54	48	40	6"
SS6E 08	15	20		120	103	83	79	75	71	67	61	54	45	6"
SS6E 09	18,5	25		135	115	94	89	85	80	75	69	61	51	6"
SS6E 10	18,5	25		150	128	104	99	94	89	84	77	68	56	6"
SS6E 11	22	30		165	141	115	109	104	98	92	85	75	62	6"
SS6E 12	22	30		180	154	125	119	113	107	100	92	82	68	6"
SS6E 13	26	35		195	167	135	129	123	116	109	100	88	73	6"
SS6E 14	26	35		210	180	146	139	132	125	117	108	95	79	6"
SS6E 15	30	40		225	192	156	149	141	134	126	115	102	85	6"
SS6E 16	30	40		240	205	167	159	151	143	134	123	109	90	6"
SS6E 17	30	40		255	218	177	169	160	152	142	131	116	96	6"

SUBMERSIBLE PUMPS

BOMBARDIER