



TECHNICAL DATA

Performance range: flow up to 75 m³/h and max head of 670 m

Max. quantity of sand/silt: 50g/m³

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/m³).

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

PERFORMANCE 50 Hz - 2 POLES

MODEL	ELECTRICAL DATA		Q=m ³ h Q=l/min	HYDRAULIC DATA										STANDARD MOTOR COUPLING
	P2 NOMINAL			0	6	8	10	12	14	15	16	18	20	
	kW	HP		0	100	133,3	166,6	200	233,3	250	266,6	300	333,3	
SS6B 07	4	5,5	H (m)	79	77	76	73	70	65	63	60	53	45	6"
SS6B 08	5,5	7,5		90	89	87	84	80	75	71	68	60	52	6"
SS6B 09	5,5	7,5		102	100	98	94	90	84	80	77	68	58	6"
SS6B 10	5,5	7,5		113	111	108	105	100	93	89	85	76	65	6"
SS6B 11	7,5	10		124	122	119	115	110	102	98	94	83	71	6"
SS6B 12	7,5	10		135	133	130	126	120	112	107	102	91	78	6"
SS6B 13	7,5	10		147	144	141	136	130	121	116	111	98	84	6"
SS6B 14	7,5	10		158	155	152	147	140	130	125	119	106	91	6"
SS6B 15	9,3	12,5		169	166	163	157	150	140	134	128	113	97	6"
SS6B 16	9,3	12,5		181	177	173	168	160	149	143	136	121	103	6"
SS6B 17	9,3	12,5		192	188	184	178	170	158	152	145	128	110	6"
SS6B 18	11	15		203	199	195	189	180	168	161	153	136	116	6"
SS6B 19	11	15		214	210	206	199	190	177	170	162	143	123	6"
SS6B 20	11	15		226	221	217	210	199	186	179	170	151	129	6"
SS6B 21	13	17,5		237	232	228	220	209	196	188	179	159	136	6"
SS6B 22	13	17,5		248	243	238	230	219	205	196	187	166	142	6"
SS6B 23	13	17,5		260	254	249	241	229	214	205	196	174	149	6"
SS6B 24	13	17,5		271	266	260	251	239	224	214	204	181	155	6"
SS6B 25	15	20		282	277	271	262	249	233	223	213	189	162	6"
SS6B 26	15	20		293	288	282	272	259	242	232	221	196	168	6"
SS6B 27	15	20		305	299	293	283	269	252	241	230	204	175	6"

PERFORMANCE 50 Hz - 2 POLES

MODEL	ELECTRICAL DATA		HYDRAULIC DATA											STANDARD MOTOR COUPLING
	P2 NOMINAL		Q=m ³ h	0	6	8	10	12	14	15	16	18	20	
	kW	HP	Q=l/min	0	100	133,3	166,6	200	233,3	250	266,6	300	333,3	
SS6B 28	15	20	H (m)	316	310	303	293	279	261	250	238	211	181	6"
SS6B 29	18,5	25		327	321	314	304	289	270	259	247	219	188	6"
SS6B 30	18,5	25		339	332	325	314	299	280	268	255	227	194	6"
SS6B 31	18,5	25		350	343	336	325	309	289	277	264	234	200	6"
SS6B 32	18,5	25		361	354	347	335	319	298	286	272	242	207	6"
SS6B 33	18,5	25		372	365	358	346	329	307	295	281	249	213	6"
SS6B 34	18,5	25		384	376	368	356	339	317	304	289	257	220	6"
SS6B 35	22	30		395	387	379	367	349	326	313	298	264	226	6"
SS6B 36	22	30		406	398	390	377	359	335	322	306	272	233	6"
SS6B 37	22	30		418	409	401	388	369	345	330	315	279	239	6"
SS6B 38	22	30		429	420	412	398	379	354	339	323	287	246	6"
SS6B 39	22	30		440	432	423	409	389	363	348	332	294	252	6"
SS6B 40	22	30		451	443	433	419	399	373	357	340	302	259	6"
SS6B 41	22	30		463	454	444	430	409	382	366	349	310	265	6"
SS6B 42	26,5	35		474	465	455	440	419	391	375	357	317	272	6"
SS6B 43	26,5	35		485	476	466	450	429	401	384	366	325	278	6"

PERFORMANCE 50 Hz - 2 POLES

MODEL	ELECTRICAL DATA		Q=m ³ h Q=l/min	HYDRAULIC DATA										STANDARD MOTOR COUPLING
	P2 NOMINAL			0	6	8	10	12	14	15	16	18	20	
	kW	HP		0	100	133,3	166,6	200	233,3	250	266,6	300	333,3	
SS6B 44	26,5	35	H (m)	497	487	477	461	439	410	393	374	332	284	6"
SS6B 45	26,5	35		508	498	488	471	449	419	402	383	340	291	6"
SS6B 46	26,5	35		519	509	498	482	459	429	411	391	347	297	6"
SS6B 47	26,5	35		531	520	509	492	469	438	420	400	355	304	6"
SS6B 48	26,5	35		542	531	520	503	479	447	429	408	362	310	6"
SS6B 49	30	40		553	542	531	513	489	457	438	417	370	317	6"
SS6B 50	30	40		564	553	542	524	499	466	447	425	378	323	6"
SS6B 51	30	40		576	564	553	534	509	475	456	434	385	330	6"
SS6B 52	30	40		587	575	563	545	519	485	464	442	393	336	6"
SS6B 53	30	40		598	586	574	555	529	494	473	451	400	343	6"
SS6B 54	30	40		610	597	585	566	539	503	482	459	408	349	6"
SS6B 55	30	40		621	609	596	576	549	512	491	468	415	356	6"
SS6B 56	30	40		632	620	607	587	559	522	500	476	423	362	6"
SS6B 57	37	50		643	631	618	597	569	531	509	485	430	369	6"
SS6B 58	37	50		655	642	628	608	578	540	518	493	438	375	6"
SS6B 59	37	50		666	653	639	618	588	550	527	502	446	381	6"
SS6B 60	37	50		677	664	650	629	598	559	536	510	453	388	6"